Request for Proposal
RFP-4583-18-DH

Design/Build Replacement Audio/Visual System for Two Rivers Convention Center

RESPONSES DUE:
January 3, 2019 Prior to 3:30 PM MDT
Accepting Electronic Responses Only
Responses Only Submitted Through the Rocky Mountain E-Purchasing System (RMEPS)
https://www.rockymountainbidsystem.com/default.asp
(Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor MUST contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)

PURCHASING REPRESENTATIVE:
Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org
970-244-1545

This solicitation has been developed specifically for a Request for Proposal intended to solicit competitive responses for this solicitation, and may not be the same as previous City of Grand Junction solicitations. All offerors are urged to thoroughly review this solicitation prior to submitting. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

REQUEST FOR PROPOSAL

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REQUEST FOR PROPOSAL

SECTION 1.0: ADMINISTRATIVE INFORMATION & CONDITIONS FOR SUBMITTAL

1.1 Issuing Office: This Request for Proposal (RFP) is issued by the City of Grand Junction. All contact regarding this RFP shall be directed to:

RFP Questions:
Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

1.2 Purpose: The purpose of this RFP is to obtain proposals from qualified professional firms to design, provide, and install a new audio/visual system to replace the existing outdated system for the Two Rivers Convention Center.

1.3 The Owner: The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.

1.4 Mandatory Pre-Bid/Site Visit Meeting: A pre-bid/site visit meeting is required for all prospective offerors. The purpose of this meeting will be to inspect and to clarify the contents of this Request for Proposal (RFP). Meeting location shall be in the main lobby of the Two Rivers Convention Center facility located at 159 Main Street, Grand Junction CO 81501 on December 14, 2018 at 10:00am.

1.5 Compliance: All participating Offerors, by their signature hereunder, shall agree to comply with all conditions, requirements, and instructions of this RFP as stated or implied herein. Should the Owner omit anything from this packet which is necessary to the clear understanding of the requirements, or should it appear that various instructions are in conflict, the Offeror(s) shall secure instructions from the Purchasing Division prior to the date and time of the submittal deadline shown in this RFP.

1.6 Submission: Please refer to section 5.0 for what is to be included. ***Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (https://www.rockymountainbidsystem.com/default.asp).*** *This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our "**Electronic Vendor Registration Guide"** at http://www.gjcity.org/business-and-economic-development/bids/ for details. For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 "Preparation and Submittal of Proposals." Submittals received that fail to follow this format may be ruled non-responsive. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**)

1.7 Altering Proposals: Any alterations made prior to opening date and time must be initialed by the signer of the proposal, guaranteeing authenticity. Proposals cannot be altered or amended after submission deadline.

1.8 Withdrawal of Proposal: A proposal must be firm and valid for award and may not be withdrawn or canceled by the Offeror for sixty (60) days following the submittal deadline date, and only prior to award. The Offeror so agrees upon submittal of their proposal. After award this statement is not applicable.

1.9 Addenda: All Questions shall be submitted in writing to the appropriate person as shown in Section 1.1. Any interpretations, corrections and changes to this RFP or extensions to the opening/receipt date shall be made by a written Addendum to the RFP by the Owner. Sole authority to authorize addenda shall be vested in the City of Grand Junction Purchasing Representative. Addenda will be issued electronically through the Rocky Mountain E-Purchasing website at www.rockymountainbidsystem.com and http://www.gjcity.org/business-and-economic-development/bids/ Offerors shall acknowledge receipt of all addenda in their proposal.

1.10 Exceptions and Substitutions: All proposals meeting the intent of this RFP shall be considered for award. Offerors taking exception to the specifications shall do so at their own risk. The Owner reserves the right to accept or reject any or all substitutions or alternatives. When offering substitutions and/or alternatives, Offeror must state these exceptions in the section pertaining to that area. Exception/substitution, if accepted, must meet or exceed the stated intent and/or specifications. The absence of such a list shall indicate that the Offeror has not taken exceptions, and if awarded a contract, shall hold the Offeror responsible to perform in strict accordance with the specifications or scope of work contained herein.

1.11 Confidential Material: All materials submitted in response to this RFP shall ultimately become public record and shall be subject to inspection after contract award. "**Proprietary or Confidential Information"** is defined as any information that is not generally known to competitors and which provides a competitive advantage. Unrestricted disclosure of proprietary information places it in the public domain. Only submittal information clearly identified with the words "***Confidential Disclosure***" and uploaded as a separate document shall establish a confidential, proprietary relationship. Any material to be treated as confidential or proprietary in nature must include a justification for the request. The request shall be reviewed and either approved or denied by the Owner. If denied, the proposer shall have the opportunity to withdraw its entire proposal, or to remove the confidential or proprietary restrictions. Neither cost nor pricing information nor the total proposal shall be considered confidential or proprietary

1.12 Response Material Ownership: All proposals become the property of the Owner upon receipt and shall only be returned to the proposer at the Owner's option. Selection or rejection of the proposal shall not affect this right. The Owner shall have the right to use all ideas or adaptations of the ideas contained in any proposal received in response to this RFP, subject to limitations outlined in the section titled "Confidential Material". Disqualification of a proposal does not eliminate this right.

1.13 Minimal Standards for Responsible Prospective Offerors: A prospective Offeror must affirmably demonstrate their responsibility. A prospective Offeror must meet the following requirements:

- Have adequate financial resources, or the ability to obtain such resources as required.

- Be able to comply with the required or proposed completion schedule.
- Have a satisfactory record of performance.
- Have a satisfactory record of integrity and ethics.
- Be otherwise qualified and eligible to receive an award and enter into a contract with the Owner.

1.14 Nonconforming Terms and Conditions: A proposal that includes terms and conditions that do not conform to the terms and conditions of this Request for Proposal is subject to rejection as non-responsive. The Owner reserves the right to permit the Offeror to withdraw nonconforming terms and conditions from its proposal prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions

1.15 Open Records: All proposals shall be open for public inspection after the contract is awarded. Trade secrets and confidential information contained in the proposal so identified by offer as such shall be treated as confidential by the Owner to the extent allowable in the Open Records Act.

1.16 Sales Tax: City of Grand Junction is, by statute, exempt from the State Sales Tax and Federal Excise Tax; therefore, all fees shall not include taxes.

1.17 Public Opening: Proposals shall be opened in the City Hall Auditorium, 250 North 5th Street, Grand Junction, CO 81501, immediately following the proposal deadline. Offerors, their representatives and interested persons may be present. Only the names and locations on the proposing firms will be disclosed.

SECTION 2.0: GENERAL CONTRACT TERMS AND CONDITIONS

2.1. Acceptance of RFP Terms: A proposal submitted in response to this RFP shall constitute a binding offer. Acknowledgment of this condition shall be indicated on the Cover Letter by the Offeror or an officer of the Offeror legally authorized to execute contractual obligations. A submission in response to the RFP acknowledges acceptance by the Offeror of all terms and conditions, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its proposal and the Owner's RFP requirements. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined or specified in the RFP.

2.2. Execution, Correlation, Intent, and Interpretations: The Contract Documents shall be signed by the Owner and Contractor. By executing the contract, the Contractor represents that they have familiarized themselves with the local conditions under which the Work is to be performed and correlated their observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment, services and other items necessary for the proper execution and completion of the scope of work as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the Owner are, and shall remain, Owner property. They are not to be used on any other project.

2.3. Permits, Fees, & Notices: The Contractor shall secure and pay for all permits, fees and licenses necessary for the proper execution and completion of the work. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the work. If the Contractor observes that any of the Contract Documents are at variance in any respect, Contractor shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by change order/amendment. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, Contractor shall assume full responsibility and shall bear all costs attributable.

2.4. Responsibility for those Performing the Work: The Contractor shall be responsible to the Owner for the acts and omissions of all their employees and all other persons performing any of the work under a contract with the Contractor.

2.5. Use of the Site: The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents, and shall not unreasonably encumber the site with any materials or equipment.

2.6. Cleanup: The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by their operations. At the completion of work they shall remove all their waste materials and rubbish from and about the project, as well as all their equipment and surplus materials.

2.7. Payment & Completion: The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Contractor for the performance of the work under the Contract Documents. Upon receipt of written notice that the work is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when Owner finds the work acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents. Partial payments will be based upon estimates, prepared by the Contractor, of the value of Work performed and materials placed in accordance with the Contract Documents.

2.8. Performance & Payment Bonds: Contractor shall furnish a Performance and a Payment Bond, each in an amount at least equal to that specified for the contract amount as security for the faithful performance and payment of all Contractor's obligations under the Contract Documents. These bonds shall remain in effect for the duration of the Warranty Period (as specified in the Special Conditions). Contractor shall also furnish other bonds that may be required by the Special Conditions. All bonds shall be in the forms prescribed by the Contract Documents and be executed by such sureties as (1) are licensed to conduct business in the State of Colorado and (2) are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Accounts, U.S. Treasury Department. All bonds singed by an agent must be accompanied by a certified copy of the Authority Act. If the surety on any bond furnished by the Contractor is declared bankrupt, or becomes insolvent, or its rights to do business in Colorado are terminated, or it ceases to meet the requirements of clauses (1) and (2) of this section, Contractor shall within five (5) days thereafter substitute another bond and surety, both of which shall be acceptable to the City.

2.9. Retention: The Owner will deduct money from the partial payments in amounts considered necessary to protect the interest of the Owner and will retain this money until after completion of the entire contract. The amount to be retained from partial payments will be five (5) percent of the value of the completed work, and not greater than five (5) percent of the amount of the Contract. When the retainage has reached five (5) percent of the amount of the Contract no further retainage will be made and this amount will be retained until such time as final payment is made.

2.10. Liquidated Damages for Failure to Meet Project Completion Schedule: If the Contractor does not achieve Final Completion by the required date, whether by neglect, refusal or any other reason, the parties agree and stipulate that the Contractor shall pay liquidated damages to the City for each such day that final completion is late. As provided elsewhere, this provision does not apply for delays caused by the City. The date for Final Completion may be extended in writing by the Owner.

The Contractor agrees that as a part of the consideration for the City's awarding of this Contract liquidated damages in the daily amount of $**500.00** is reasonable and necessary to pay for the actual damages resulting from such delay. The parties agree that the real costs and injury to the City for such delay include hard to quantify items such as: additional engineering, inspection and oversight by the City and its agents; additional contract administration; inability to apply the efforts of those employees to the other work of the City; perceived inefficiency of the City; citizens having to deal with the construction and the Work, rather than having the benefit of a completed Work, on time; inconvenience to the public; loss of reputation and community standing for the City during times when such things are very important and very difficult to maintain.

The Contractor must complete the Work and achieve final completion included under the Bid Schedule in the number of consecutive calendar days after the City gives is written Notice to Proceed. When the Contractor considers the entire Work ready for its intended use, Contractor shall certify in writing that the Work is substantially complete. In addition to the Work being substantially complete, Final Completion date is the date by which the Contractor shall have fully completed all clean-up, and all items that were identified by the City in the inspection for final completion. Unless otherwise stated in the Special Conditions, for purposes of this liquidated damages clause, the Work shall not be finished and the Contract time shall continue to accrue until the City gives its written Final Acceptance.

If the Contractor shall fail to pay said liquidated damages promptly upon demand thereof after having failed to achieve Final Completion on time, the City shall first look to any retainage or other funds from which to pay said liquidated damages; if retainage or other liquid funds are not available to pay said liquidated damages amounts, the Surety on the Contractor's Performance Bond and Payment Bond shall pay such liquidated damages. In addition, the City may withhold all, or any part of, such liquidated damages from any payment otherwise due the Contractor.
Liquidated damages as provided do not include any sums to reimburse the City for extra costs which the City may become obligated to pay on other contracts which were delayed or extended because of the Contractor's failure to complete the Work within the Contract Time. Should the City incur additional costs because of delays or extensions to other

contracts resulting from the Contractor's failure of timely performance, the Contractor agrees to pay these costs that the City incurs because of the Contractor's delay, and these payments are separate from and in addition to any liquidated damages.

The Contractor agrees that the City may use its own forces or hire other parties to obtain Substantial or Final Completion of the work if the time of completion has elapsed and the Contractor is not diligently pursuing completion. In addition to the Liquidated Damages provided for, the Contractor agrees to reimburse the City for all expenses thus incurred.

2.11. Contingency/Force Account: Contingency/Force Account work will be authorized by the Owner's Project Manager and is defined as minor expenses to cover miscellaneous or unforeseen expenses related to the project. The expenses are not included in the Drawings, Specifications, or Scope of Work and are necessary to accomplish the scope of this contract. Contingency/Force Account Authorization will be directed by the Owner through an approved form. Contingency/Force Account funds are the property of the Owner and any Contingency/Force Account funds, not required for project completion, shall remain the property of the Owner. Contractor is not entitled to any Contingency/Force Account funds, that are not authorized by Owner or Owner's Project Manager.

2.12. Protection of Persons & Property: The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing safeguards for safety and protection, and all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Contractor in the execution of the work, or in consequence of the non-execution thereof by the Contractor, they shall restore, at their own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.

2.13. Changes in the Work: The Owner, without invalidating the contract, may order changes in the work within the general scope of the contract consisting of additions, deletions or other revisions. All such changes in the work shall be authorized by Change Order and shall be executed under the applicable conditions of the contract documents. A Change Order is a written order to the Contractor signed by the Owner issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum or the contract time.

2.14. Minor Changes in the Work: The Owner shall have authority to order minor changes in the work not involving an adjustment in the contract sum or an extension of the contract time and not inconsistent with the intent of the contract documents.

2.15. Uncovering & Correction of Work: The Contractor shall promptly correct all work found by the Owner as defective or as failing to conform to the contract documents. The Contractor shall bear all costs of correcting such rejected work, including the cost of the Owner's additional services thereby made necessary. The Owner shall give such notice

promptly after discovering of condition. All such defective or non-conforming work under the above paragraphs shall be removed from the site where necessary and the work shall be corrected to comply with the contract documents without cost to the Owner.

2.16. Acceptance Not Waiver: The Owner's acceptance or approval of any work furnished hereunder shall not in any way relieve the proposer of their present responsibility to maintain the high quality, integrity and timeliness of his work. The Owner's approval or acceptance of, or payment for, any services shall not be construed as a future waiver of any rights under this Contract, or of any cause of action arising out of performance under this Contract.

2.17. Change Order/Amendment: No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All change orders/amendments to the contract shall be made in writing by the Owner Purchasing Division.

2.18. Assignment: The Offeror shall not sell, assign, transfer or convey any contract resulting from this RFP, in whole or in part, without the prior written approval from the Owner.

2.19. Compliance with Laws: Proposals must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements. Contractor hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and professional licenses in good standing, required by law.

2.20. Debarment/Suspension: The Contractor herby certifies that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Governmental department or agency.

2.21. Confidentiality: All information disclosed by the Owner to the Contractor for the purpose of the work to be done or information that comes to the attention of the Contractor during the course of performing such work is to be kept strictly confidential.

2.22. Conflict of Interest: No public official and/or Owner employee shall have interest in any contract resulting from this RFP.

2.23. Contract: This Request for Proposal, submitted documents, and any negotiations, when properly accepted by the Owner, shall constitute a contract equally binding between the Owner and Offeror. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the Proposal documents. The contract may be amended or modified with Change Orders, Field Orders, or Amendment.

2.24. Project Manager/Administrator: The Project Manager, on behalf of the Owner, shall render decisions in a timely manner pertaining to the work proposed or performed by the Offeror. The Project Manager shall be responsible for approval and/or acceptance of any related performance of the Scope of Work.

2.25. Cancelation of Solicitation: Any solicitation may be canceled by the Owner or any solicitation response by a vendor may be rejected in whole or in part when it is in the best interest of the Owner.

2.26. Contract Termination: This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation at least thirty days past notification.

2.27. Employment Discrimination: During the performance of any services per agreement with the Owner, the Offeror, by submitting a Proposal, agrees to the following conditions:

2.27.1. The Offeror shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, disability, citizenship status, marital status, veteran status, sexual orientation, national origin, or any legally protected status except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Offeror. The Offeror agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

2.27.2. The Offeror, in all solicitations or advertisements for employees placed by or on behalf of the Offeror, shall state that such Offeror is an Equal Opportunity Employer.

2.27.3. Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

2.28. Immigration Reform and Control Act of 1986 and Immigration Compliance: The Offeror certifies that it does not and will not during the performance of the contract employ illegal alien workers or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).

2.29. Ethics: The Offeror shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the Owner.

2.30. Failure to Deliver: In the event of failure of the Offeror to deliver services in accordance with the contract terms and conditions, the Owner, after due oral or written notice, may procure the services from other sources and hold the Offeror responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the Owner may have.

2.31. Failure to Enforce: Failure by the Owner at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the Owner to enforce any provision at any time in accordance with its terms.

2.32. Force Majeure: The Offeror shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the Offeror, unless otherwise specified in the contract.

2.33. Indemnification: Offeror shall defend, indemnify and save harmless the Owner and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Offeror, or of any Offeror's agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Offeror shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.

2.34. Independent Firm: The Offeror shall be legally considered an Independent Firm and neither the Firm nor its employees shall, under any circumstances, be considered servants or agents of the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Firm, its servants, or agents. The Owner shall not withhold from the contract payments to the Firm any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Firm. Further, the Owner shall not provide to the Firm any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.

2.35. Ownership: All plans, prints, designs, concepts, etc., shall become the property of the Owner.

2.36. Oral Statements: No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the Owner.

2.37. Patents/Copyrights: The Offeror agrees to protect the Owner from any claims involving infringements of patents and/or copyrights. In no event shall the Owner be liable to the Offeror for any/all suits arising on the grounds of patent(s)/copyright(s) infringement. Patent/copyright infringement shall null and void any agreement resulting from response to this RFP.

2.38. Remedies: The Offeror and Owner agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.

2.39. Venue: Any agreement as a result of responding to this RFP shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.

2.40. Expenses: Expenses incurred in preparation, submission and presentation of this RFP are the responsibility of the company and can not be charged to the Owner.

2.41. Sovereign Immunity: The Owner specifically reserves its right to sovereign immunity pursuant to Colorado State Law as a defense to any action arising in conjunction to this agreement.

2.42. Public Funds/Non-Appropriation of Funds: Funds for payment have been provided through the Owner's budget approved by the City Council/Board of County Commissioners for the stated fiscal year only. State of Colorado statutes prohibit the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that may arise past the end of the stated Owner's fiscal year shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.

2.43. Collusion Clause: Each Offeror by submitting a proposal certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all proposals shall be rejected if there is evidence or reason for believing that collusion exists among the proposers. The Owner may or may not, at the discretion of the Owner Purchasing Representative, accept future proposals for the same service or commodities for participants in such collusion.

2.44. Gratuities: The Contractor certifies and agrees that no gratuities or kickbacks were paid in connection with this contract, nor were any fees, commissions, gifts or other considerations made contingent upon the award of this contract. If the Contractor breaches or violates this warranty, the Owner may, at their discretion, terminate this contract without liability to the Owner.

2.45. OSHA Standards: All Offerors agree and warrant that services performed in response to this invitation shall conform to the standards declared by the US Department of Labor under the Occupational Safety and Health Act of 1970 (OSHA). In the event the services do not conform to OSHA Standards, the Owner may require the services to be redone at no additional expense to the Owner.

2.46. Performance of the Contract: The Owner reserves the right to enforce the performance of the contract in any manner prescribed by law or deemed to be in the best interest of the Owner in the event of breach or default of resulting contract award.

2.47. Benefit Claims: The Owner shall not provide to the Contractor any insurance coverage or other benefits, including Worker's Compensation, normally provided by the Owner for its employees.

2.48. Default: The Owner reserves the right to terminate the contract immediately in the event the Contractor fails to meet delivery or completion schedules, or otherwise perform in accordance with the accepted proposal. Breach of contract or default authorizes the Owner to purchase like services elsewhere and charge the full increase in cost to the defaulting Contractor.

2.49. Multiple Offers: Proposers must determine for themselves which product or service to offer. If said proposer chooses to submit more than one offer, THE ALTERNATE OFFER must be clearly marked "Alternate Proposal". The Owner reserves the right to make award in the best interest of the Owner.

2.50. Cooperative Purchasing: Purchases as a result of this solicitation are primarily for the Owner. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating

agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Proposal. The quantities furnished in this proposal document are for only the Owner. It does not include quantities for any other jurisdiction. The Owner will be responsible only for the award for our jurisdiction. Other participating entities will place their own awards on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The Owner accepts no liability for payment of orders placed by other participating jurisdictions that choose to piggy-back on our solicitation. Orders placed by participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.

2.51. Definitions:

2.51.1. "Offeror" and/or "Proposer" refers to the person or persons legally authorized by the Consultant to make an offer and/or submit a response (fee) proposal in response to the Owner's RFP.

2.51.2. The term "Work" includes all labor, materials, equipment, and/or services necessary to produce the requirements of the Contract Documents.

2.51.3. "Contractor" is the person, organization, firm or consultant identified as such in the Agreement and is referred to throughout the Contract Documents. The term Contractor means the Contractor or his authorized representative. The Contractor shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Work, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Contractor shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Contractor shall not commence work without clarifying Drawings, Specifications, or Interpretations.

2.51.4. "Sub-Contractor is a person or organization who has a direct contract with the Contractor to perform any of the work at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.

2.52. Public Disclosure Record: If the Proposer has knowledge of their employee(s) or sub-proposers having an immediate family relationship with an Owner employee or elected official, the proposer must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the Owner.

2.53. Keep Jobs in Colorado Act: Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a). If Contractor claims it is entitled to a waiver pursuant to C.R.S. §8-17-101(1), Contractor shall state that there is insufficient Colorado labor to perform the work such that compliance with Article 17 would create an undue burden that would substantially prevent a project from proceeding to completion, and shall include evidence demonstrating the insufficiency and undue burden in its response.

Unless expressly granted a waiver by the Owner pursuant to C.R.S. §8-17-101(1), Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a).

2.53.1. "Public Works project" is defined as:

(a) any construction, alteration, repair, demolition, or improvement of any land, building, structure, facility, road, highway, bridge, or other public improvement suitable for and intended for use in the promotion of the public health, welfare, or safety and any maintenance programs for the upkeep of such projects

(b) for which appropriate or expenditure of moneys may be reasonably expected to be $500,000.00 or more in the aggregate for any fiscal year

(c) except any project that receives federal moneys.

SECTION 3.0: INSURANCE REQUIREMENTS

Insurance Requirements: The selected Contractor agrees to procure and maintain, at its own cost, policy(s) of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Contractor pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The Contractor shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant to this Section by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types. Contractor shall procure and maintain and, if applicable, shall cause any Subcontractor of the Contractor to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to the Owner. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Minimum coverage limits shall be as indicated below unless specified otherwise:

(a) Worker Compensation: Contractor shall comply with all State of Colorado Regulations concerning Workers' Compensation insurance coverage.

(b) General Liability insurance with minimum limits of:

ONE MILLION DOLLARS ($1,000,000) each occurrence and
ONE MILLION DOLLARS ($1,000,000) per job aggregate.

The policy shall be applicable to all premises and operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts), blanket contractual, products, and completed operations. The policy shall include coverage for explosion, collapse, and underground hazards. The policy shall contain a severability of interests provision.

(c) Comprehensive Automobile Liability insurance with minimum limits for bodily injury and property damage of not less than:

ONE MILLION DOLLARS ($1,000,000) each occurrence and

ONE MILLION DOLLARS ($1,000,000) aggregate

(d) Professional Liability & Errors and Omissions Insurance policy with a minimum of:

ONE MILLION DOLLARS ($1,000,000) per claim

This policy shall provide coverage to protect the contractor against liability incurred as a result of the professional services performed as a result of responding to this Solicitation.

With respect to each of Contractors owned, hired, or non-owned vehicles assigned to be used in performance of the Work. The policy shall contain a severability of interests provision. The policies required by paragraph (b) above shall be endorsed to include the Owner, and the Owner's officers and employees as additional insureds. Every policy required above shall be primary insurance, and any insurance carried by the Owner, its officers, or its employees, or carried by or provided through any insurance pool of the Owner, shall be excess and not contributory insurance to that provided by Bidder. No additional insured endorsement to any required policy shall contain any exclusion for bodily injury or property damage arising from completed operations. The Bidder shall be solely responsible for any deductible losses under any policy required above.

SECTION 4.0: SPECIFICATIONS/SCOPE OF SERVICES

4.1. General/Background: Conveniently located in downtown Grand Junction, Two Rivers Convention Center is western Colorado's premier convention and meeting facility that is ideal for meetings, seminars, reunions, weddings, receptions, banquets, concerts, galas and trade shows.

In addition to business meetings, exhibits and concerts, our rooms are available for dining, with options for dancing and full decorating available.

The largest and conveniently located convention center between Denver and Salt Lake City, TRCC has nearly 23,000 square feet of meeting and exhibit space to accommodate groups up to 2,000 people. Three ballrooms of at least 5,800 square feet each are on one side of the center, with six smaller rooms across the Concourse Hallway.

The TRCC is looking for the most current and appropriate innovation of both technology and design for the facility. This doesn't necessarily mean the highest end of equipment, but moreover the best fit for the facility and its needs for long term use.

NOTE: A major remodel of the TRCC is currently underway with FCI, Inc. (Contractor) and Chamberlin Architects, Inc. (Architect). The awarded Contractor for this solicitation shall be required to coordinate their project scheduling with the remodeling Contractor and Architect. It is anticipated the work for this project shall begin in early August 2019 with completion no later than September 18, 2018.

4.2. Special Conditions/Provisions:

4.2.1 Mandatory Pre-Bid/Site Visit Meeting: A pre-bid/site visit meeting is required for all prospective offerors. The purpose of this meeting will be to inspect and to clarify the

contents of this Request for Proposal (RFP). Meeting location shall be in the main lobby of the Two Rivers Convention Center facility located at 159 Main Street, Grand Junction CO 81501 on December 14, 2018 at 10:00am.

4.2.2 Licenses and Permits: Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractors expense. See Section 2.3

4.2.3 Freight/Shipping: All freight/shipping shall be F.O.B. Destination – Freight Pre-paid and allowed. Staging area provided at 333 West Ave, Grand Junction, CO 81501. Final location of approximately 39 5'26.072" N Lat 108 13"26.407" W Lon.

4.2.4 Price: Project pricing shall be all inclusive, to include, but not be limited to: labor, materials, equipment, travel, design, drawings, engineer work, supplies, shipping/freight, licenses, permits, fees, etc.

All prices shall be "F.O.B. Destination Freight Pre-Paid and Allowed". The Owner shall not pay nor be liable for any other additional costs including but not limited to: taxes, shipping charges, insurance, interest, penalties, termination payments, attorney fees, liquidated damages, etc.

Contractor's design, proposal, and pricing submittal shall provide for AV replacement of the entire TRCC facility. However, due to budgetary constraints, it is anticipated that the only actual installation of AV equipment shall be for the River Rooms portion of the facility, and the main control system that would control the entire facility. The Creek Rooms would be installed at a later date.

Contract shall be established as "Guaranteed Maximum Price" for both design and construction services. Contractor shall submit their GMP Fee utilizing the attached form in Section 7.0 Solicitation Response Form. Contractor shall provide a complete breakdown/itemization of their proposed pricing/GMP, to include full design, main ball room (River Room), Creek Rooms, etc, with the cabling portion of the project as a separate line item.

All fees will be considered by the Owner to be negotiable.

4.2.5 Warranty: Contractor shall submit manufacturer warranty information for Owner's approval, prior to product ordering. Additionally, Contractor shall provide a minimum 1 year Contractors warranty.

4.2.6 Codes: Contractor shall ensure that project meets all Federal, State, County, and City Codes.

4.2.7 Working Schedule: Time is of the essence with this project. Working schedule shall be Monday – Sunday from 7:00am-7:00pm. It is anticipated that Project start date shall be August 1, 2019 with final completion no later than September 18, 2019.

4.2.8 Time of Completion: The scheduled time of Completion for the Project shall be no later than September 18, 2019.

4.2.9 Contract: A binding contract shall consist of: (1) the IFB and any amendments thereto, (2) the bidder's response (bid) to the IFB, (3) clarification of the bid, if any, and (4) the City's Purchasing Department's acceptance of the bid by "Notice of Award" or by "Purchase Order". All Exhibits and Attachments included in the IFB shall be incorporated into the contract by reference.

A. The contract expresses the complete agreement of the parties and, performance shall be governed solely by the specifications and requirements contained therein.

B. Any change to the contract, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representative of the bidder and the City Purchasing Division or by a modified Purchase Order prior to the effective date of such modification. The bidder expressly and explicitly understands and agrees that no other method and/or no other document, including acts and oral communications by or from any person, shall be used or construed as an amendment or modification to the contract.

4.2.10 Plans/Drawings: Contractor shall provide Conceptual ***or*** 30% plans/drawings with their proposal response. The awarded Contractor shall provide full plans/drawings no later than March 1, 2019.

4.3. Specifications/Scope of Services: The general scope of services to be obtained as a result of this RFP includes all preconstruction and Construction Services required for successful completion of the project.

The project requires that the entire Two Rivers Convention Center facility be taken into account for full design/preconstruction services. However, due to budgetary restrictions, it is most likely that only the main ballroom will be able to receive construction services phase at this time. It is the intent to implement the remaining rooms for the construction phase at a later date, based upon the Contractor's design/preconstruction services for the entire facility.

The Contractor shall approach and propose the project as if the entire facility would receive the construction services phase of the project. Upon final selection of a Contractor, the Owner shall determine the percentage/portions of the project to be fulfilled in the construction services portion, and may negotiate such with the Contractor.
For construction services of the project, FCI, Inc. shall all necessary "rough-ins" required, and the AV Contractor shall be responsible for cabling.

At a minimum, the TRCC is seeking/anticipating the following:

Projectors:
4 – 10k projectors (Epson brand preferred)
4 – 5k projectors (Epson Brand Preferred)
9 outputs in the celling
3 wall inputs

Microphones: (ours are currently on the bandwidth that is going away)
Audio control system (preferably with an ipad you can use in each space)

16 handheld wireless
8 lavaliers
Antennae system
7 Mic stands
6 panel microphones

House sound:
Our ballroom measures about 18,000 square feet, we'd want house sound that would support most conferences and potentially banquets (not including live entertainment).

Digital Programable Signage
6 panels

See attached as built drawings:

See attached current renovation drawings.

4.4. RFP Tentative Time Schedule:

• Request for Proposal Available	December 5, 2108
• Mandatory Pre-Bid Meeting/Site Visit	December 14, 2018
• Inquiry deadline, no questions after this date	December 20, 2018
• Addendum Posted	December 27, 2018
• Submittal deadline for proposals	January 3, 2019
• Owner evaluation of proposals	January 4 – 10, 2019
• Interviews (if required)	January 17, 2019
• Final selection	January 24, 2019
• City Council Approval (if required)	February 6, 2019
• Contract execution	February 7, 2019
• Work begins on site	TBD (estimated August 1, 2019)
• Completion Date	September 18, 2019

4.5. Questions Regarding Scope of Services:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

SECTION 5.0: PREPARATION AND SUBMITTAL OF PROPOSALS

Submission: ***Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (https://www.rockymountainbidsystem.com/default.asp).*** *This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our "**Electronic Vendor Registration Guide"** at http://www.gjcity.org/business-and-economic-development/bids/ for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline; **800-835-4603**). For proper comparison and evaluation, the City requests that proposals be formatted as directed. Offerors are required to indicate their interest in this Project, show their specific experience and address their capability to perform the Scope of Services in the Time Schedule as set forth herein. For proper comparison and evaluation, the Owner requires that proposals be formatted **A** to **G**.

A. **Cover Letter:** Cover letter shall be provided which explains the Firm's interest in the project. The letter shall contain the name/address/phone number/email of the person who will serve as the firm's principal contact person with Owner's Contract Administrator and shall identify individual(s) who will be authorized to make presentations on behalf of the firm. The statement shall bear the signature of the person having proper authority to make formal commitments on behalf of the firm. By submitting a response to this solicitation the Contractor agrees to all requirements herein.

B. **Qualifications/Experience/Credentials:** Proposers shall provide their qualifications for consideration as a contract provider to the City of Grand Junction and include prior experience in similar projects.

C. **Strategy and Implementation Plan:** Describe your (the firm's) interpretation of the Owner's objectives with regard to this RFP. Describe the proposed strategy and/or plan for achieving the objectives of this RFP. The Firm may utilize a written narrative or any other printed technique to demonstrate their ability to satisfy the Scope of Services. The narrative should describe a logical progression of tasks and efforts starting with the initial steps or tasks to be accomplished and continuing until all proposed tasks are fully described and the RFP objectives are accomplished. Include a **time schedule** for completion of your firm's implementation plan and an estimate of time commitments from Owner staff.

D. **Plans/Drawings:** Contractor shall provide conceptual or 30% plans/drawings with their proposal response.

E. **References:** A minimum of three (3) **references** with name, address, telephone number, and email address that can attest to your experience in projects of similar scope and size.

F. **Fee Proposal:** ***Contract shall be established as "Guaranteed Maximum Price" for both design and construction services. Contractor shall submit their GMP Fee utilizing the attached form in Section 7.0 Solicitation Response Form. Contractor shall provide a complete breakdown/itemization of their proposed pricing/GMP, to include***

full design, main ball room (River Room), Creek Rooms, etc, with the cabling portion of the project as a separate line item.

G. Additional Data (optional): Provide any additional information that will aid in evaluation of your qualifications with respect to this project.

SECTION 6.0: EVALUATION CRITERIA AND FACTORS

6.1 Evaluation: An evaluation team shall review all responses and select the proposal or proposals that best demonstrate the capability in all aspects to perform the scope of services and possess the integrity and reliability that will ensure good faith performance.

6.2 Intent: Only respondents who meet the qualification criteria will be considered. Therefore, it is imperative that the submitted proposal clearly indicate the firm's ability to provide the services described herein.

Submittal evaluations will be done in accordance with the criteria and procedure defined herein. The Owner reserves the right to reject any and all portions of proposals and take into consideration past performance. The following parameters will be used to evaluate the submittals (in no particular order of priority):

- Responsiveness of submittal to the RFP
- Understanding of the project and the objectives
- Experience/Required Skills
- Necessary resources
- Strategy & Implementation Plan
- References
- Fees

Owner also reserves the right to take into consideration past performance of previous awards/contracts with the Owner of any vendor, contractor, supplier, or service provider in determining final award(s).

The Owner will undertake negotiations with the top rated firm and will not negotiate with lower rated firms unless negotiations with higher rated firms have been unsuccessful and terminated.

6.3 Oral Interviews: The Owner may invite the most qualified rated proposers to participate in oral interviews.

6.4 Award: Firms shall be ranked or disqualified based on the criteria listed in Section 6.2. The Owner reserves the right to consider all of the information submitted and/or oral presentations, if required, in selecting the project Contractor.

SECTION 7.0: SOLICITATION RESPONSE FORM

RFP-4583-18-DH

"Design/Build Replacement Audio/Visual System for Two Rivers Convention Center"

Offeror must submit entire Form completed, dated and signed.

1) Total "Guaranteed Maximum Price", per scope/specifications:

TOTAL $_____

WRITTEN: _____dollars.

The Owner reserves the right to accept any portion of the work to be performed at its discretion

---

The undersigned has thoroughly examined the entire Request for Proposals and therefore submits the proposal and schedule of fees and services attached hereto.

This offer is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror agrees to provide services and products in accordance with the terms and conditions contained in this Request for Proposal and as described in the Offeror's proposal attached hereto; as accepted by the Owner.

Prices in the proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a proposal for the purpose of restricting competition.
- The individual signing this proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-903544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of _____ percent of the net dollar will be offered to the Owner if the invoice is paid within _____ days after the receipt of the invoice.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: _____.

It is the responsibility of the Proposer to ensure all Addenda have been received and acknowledged.

_____	_____
Company Name – (Typed or Printed)	Authorized Agent – (Typed or Printed)
_____	_____
Authorized Agent Signature	Phone Number
_____	_____
Address of Offeror	E-mail Address of Agent
_____	_____
City, State, and Zip Code	Date

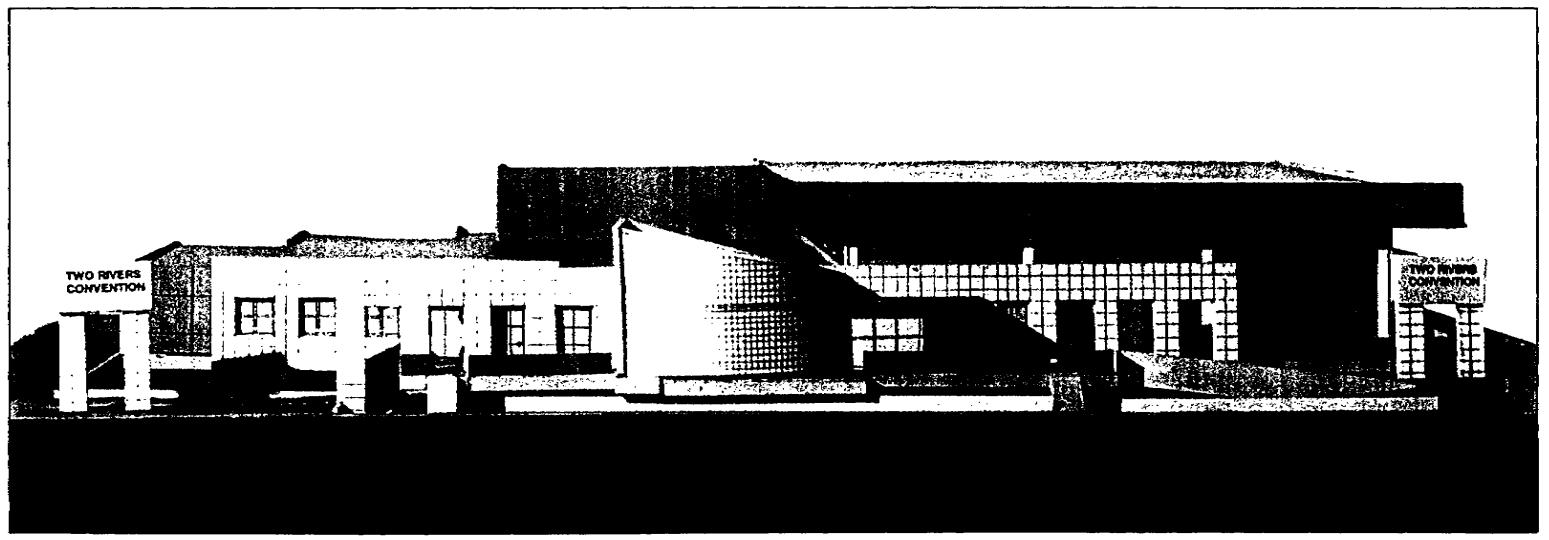
TRCC As Built Drawings

TWO RIVERS CONVENTION CENTER IMPROVEMENTS

GRAND JUNCTION, COLORADO

CONSTRUCTION DOCUMENTS

MARCH 16,2001



FRONT ELEVATION

PROJECT TEAM

CLIENT
CITY OF GRAND JUNCTION
1340 GUNNISON AVENUE
GRAND JUNCTION, CO 81501
(970) 244-3069 FAX (970) 242-1557

TWO RIVERS CONVENTION CENTER
159 MAIN ST
GRAND JUNCTION, CO 81501
(970) 244-1464 FAX (970) 256-0916

ARCHITECT
SINK COMBS DETHLEFS, P.C.
2246 MARKET STREET, SUITE 200
DENVER, COLORADO 80205
(303) 308-8200 FAX (303) 308-0222

ASSOCIATE ARCHITECT
DKO ARCHITECTURE
336 MAIN ST. SUITE 209
GRAND JUNCTION, CO 81501
(970)256-9722 FAX (970) 256-1011

CIVIL ENGINEER
ROLLAND ENGINEERING
605 RIDGES BOULEVARD, SUITE A
GRAND JUNCTION, CO 81503
(970)243-8300 FAX (970) 241-1273

LANDSCAPE
CIAVONNE & ASSOCIATES
844 GRAND AVE.
GRAND JUNCTION, COLORADO 81501
(970) 241-0745 FAX (970) 241-0765

STRUCTURAL
MARTIN/MARTIN
4251 KIPLING
WHEAT RIDGE, CO 80033
(303) 431-6100 FAX (303) 431-6866

MECHANICAL/ELECTRICAL/ PLUMBING ENGINEER
M-E ENGINEERS, INC.
10055 W. 43RD AVE
WHEATRIDGE, COLORADO 80033
(303) 423-0331 FAX (303) 423-8555

KITCHEN CONSULTANT
WILLIAM CARUSO & ASSOC.
8200 E. MINERAL AVE. SUITE 100
ENGLEWOOD, CO 80112
(303) 649-1600 FAX (303) 649-1660

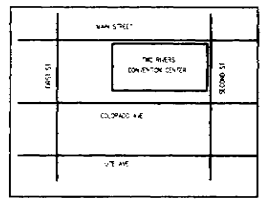
CONTRACTOR
SHAW CONSTRUCTION
790 HORIZON DRIVE
GRAND JUNCTION, COLORADO 81506
(970) 242-9230 FAX (970) 241-5616

CODE INFORMATION

CODE REVIEW INFORMATION

1.	APPLICABLE CODES:	2000 INTERNATIONAL BUILDING CODE (IBC) 2000 INTERNATIONAL MECHANICAL CODE (IMC) 2000 INTERNATIONAL PLUMBING CODE (IPC) 1999 NATIONAL ELECTRIC CODE (NFPA-70) 2000 UNIFORM FIRE CODE (UFC)
2.	OCCUPANCY USE AND GROUP.	GROUP A-3 OCCUPANCY
3	TYPE OF CONSTRUCTION	TYPE II-B

VICINITY MAP



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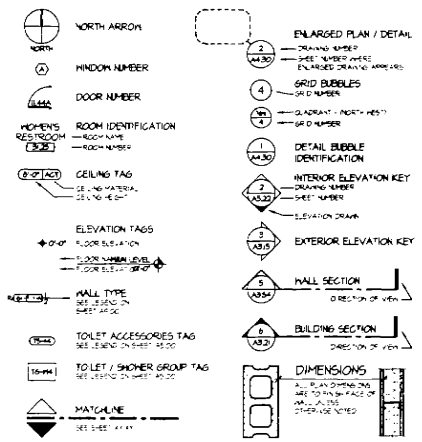


ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	GB	GYPSUM BOARD	RD	ROOF DRAIN
AFF	ABOVE FINISH FLOOR	GL	GLASS	RE	REFER TO
ALUM	ALUMINUM	HB	HOSE BIB	REINF	REINFORCING
AB	ANCHOR BOLT	HC	HANDICAP ACCESSIBLE	REM	RECESSED ENTRY MAT
@	AT	HM	HOLLOW METAL	REV	REVISE/REVISION
AP	ACOUSTICAL WALL PANEL	HORIZ	HORIZONTAL	RM	ROOM
BB	BACKER BOARD	HR	HOUR	RO	ROUGH OPENING
BD	BOARD	HT	HEIGHT	ROW	RIGHT OF WAY
BLDG	BUILDING	HW	HARD WOOD	S	SEALED
BM	BEAM	ID	INSIDE DIAMETER	SC	SOLID CORE
BLKG	BLOCKING	INSUL	INSULATION	SD	SMOKE DETECTOR
BOT	BOTTOM	INT	INTERIOR	SIM	SIMILAR
CAB	CABINET	IRGB	IMPACT RESISTANT GYP BD	SPEC	SPECIFICATIONS
CB	CARPET BASE	JAN	JANITOR	SS	STAINLESS STEEL
CBB	CEMENTITIOUS BACKER BD	JT	JOINT	SSF	SYNTHETIC SPORTS FLOORING
CONC	COLORED CONC. MASONRY UNIT	LAM	LAMINATE	STD	STANDARD
CIP	CAST IN PLACE	LH	LEFT HAND	STL	STEEL
CJ	CONTROL JOINT	LS	LIMESTONE WALL PANEL	STOR	STORAGE
CL	CENTER LINE	LVR	LOUVER	STRUCT	STRUCTURAL
CLG	CEILING	M	MIRROR	SUSP	SUSPENDED
CMU	CONCRETE MASONRY UNIT	MAT	MATERIAL	SW	SIDEWALK
COL	COLUMN	MAX	MAXIMUM	T&B	TOP AND BOTTOM
CONC	CONCRETE	MB	MARKERBOARD	T&G	TONGUE & GROOVE DECK
CONT	CONTINOUS	MECH	MECHANICAL	TC	TELEPHONE CLOSET
CPT	CARPET	MFR	MANUFACTURER	TEL	TELEPHONE
CT	CERAMIC TILE	MH	MANHOLE	TEMP	TEMPERED
DF	DRINKING FOUNTAIN	MIN	MINIMUM	TO	TOP OF
DIA	DIAMETER	MISC	MISCELLANEOUS	TOB	TOP OF BEAM
DIM	DIMENSION	MO	MASONRY OPENING	TOC	TOP OF CONCRETE
DN	DOWN	MTD	MOUNTED	TOF	TOP OF FLOOR
DR	DOOR	MTL	METAL	TOM	TOP OF MASONRY
DS	DOWNSPOUT	N	NORTH	TOS	TOP OF STEEL
DT	DETAIL	NIC	NOT IN CONTRACT	TOW	TOP OF WALL
DWG	DRAWING	NST	NATURAL STONE TILE	TW	TACKABLE WALL SURFACE
(E)	EXISTING TO REMAIN	NTS	NOT TO SCALE	TYP	TYPICAL
EA	EACH	OC	ON CENTER	UNO	UNLESS NOTED OTHERWISE
EP	EPOXY FLOORING	OD	OUTSIDE DIAMETER	VACT	VINYL COATED ACT
EL	ELEVATION	OH	OVERHEAD	VCT	VINYL COMPOSITE TILE
ELEC	ELECTRIC	OPP	OPPOSITE	VWC	VINYL WALL COVERING
EPT	EPOXY PAINT (WATER BASE)	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	W	WITH
EQ	EQUAL EQUIVALENT	P	PAINT	WB	WOOD BASE
EWC	ELEC WATER COOLER	PC	PRECAST CONCRETE	WC	WATER CLOSET
EXP	EXPANSION	PL	PLATE	WD	WOOD
EXP JT	EXPANSION JOINT	PLAM	PLASTIC LAMINATE	WH	WATER HEATER
FD	FLOOR DRAIN	PS	PAINTED SAND FINISH	WO	WITHOUT
FDN	FOUNDATION	PT	PAINT	WP	WORK POINT
FEC	FIRE HOSE CABINET	QT	QUARRY TILE	WRGB	WATER RESISTANT GYP BD
FH	FIRE HYDRANT	R	RADIUS/RISER	WT	WEIGHT
FHC	FIRE EXTINGUISHER CAB	RB	RUBBER BASE	WM	WOOD WAINSCOAT
FIN	FINISH	RBF	RUBBER FLOORING	WWF	WELDED WIRE FABRIC
FT	FOOT/FEET			XS	EXPOSED STRUCTURE
FTG	FOOTING				
GA	GAUGE				
GALV	GALVANIZED				

09103701.tif

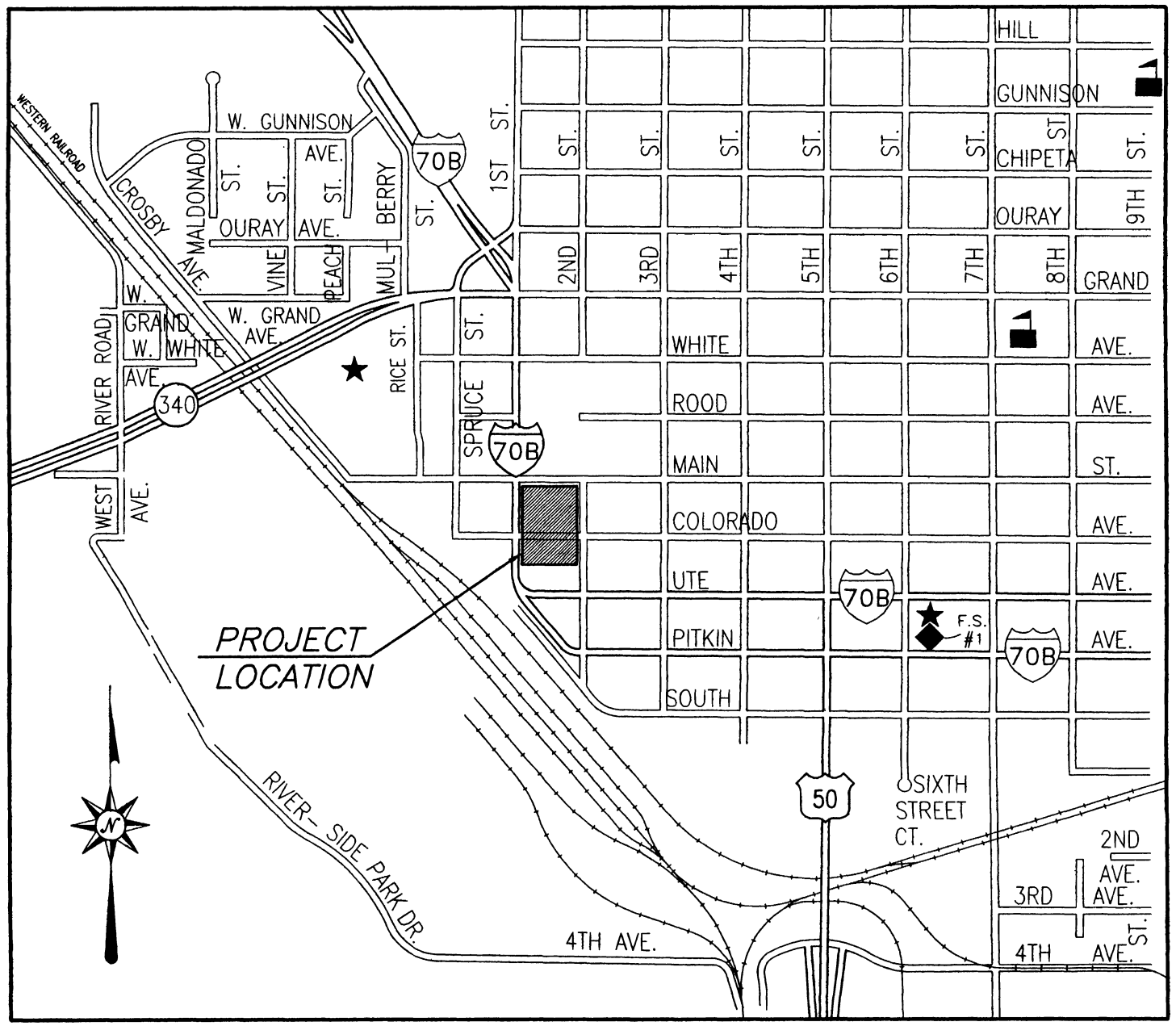
TWO RIVERS
CONVENTION CENTER

PREPARED FOR:
CITY OF GRAND JUNCTION

250 N. 5TH STREET
GRAND JUNCTION, CO 81501

PREPARED BY:
ROLLAND ENGINEERING

405 RIDGES BLVD.
GRAND JUNCTION, CO 81503



VICINITY MAP

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BENCHMARK

MCSM BLOCK CORNER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88

CALL UTILITY NOTIFICATION CENTER OF COLORADO

1-800-922-1987

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

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TWO RIVERS CONVENTION CENTER
COVER SHEET

Designed	Checked	Proj#	Sheet
ESS	TDR	0088	1
Drawn	Date	Rv:	Of
ESS	2/5/01	3/14/01	18

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ABBREVIATIONS

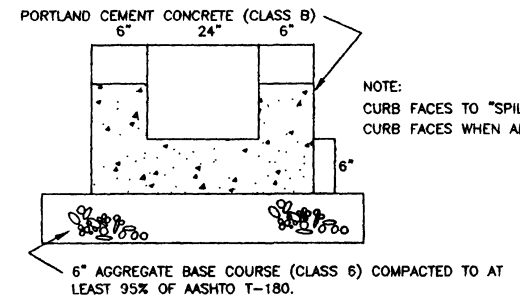
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
ADA	AMERICANS WITH DISABILITIES ACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE.	AVENUE
B.O.W.	BACK-OF-WALK
BLDG	BUILDING
C.D.O.T.	COLORADO DEPARTMENT OF TRANSPORTATION
C.G.	CURB AND GUTTER
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CONST.	CONSTRUCTION
C.Y.	CUBIC YARD
CU. YD.	CUBIC YARD
DEG.	DEGREE
DIA	DIAMETER
DWY	DRIVEWAY
E	EAST
EA.	EACH
E.W.	EACH WAY
EL	ELEVATION
EX.or EXIST.	EXISTING
FH	FIRE HYDRANT
FL or F.L.	FLOWLINE
FT.	FOOT
G	GROUND
HBP	HOT BITUMINOUS PAVEMENT
HWY	HIGHWAY
I.D.	INSIDE DIAMETER
INV.	INVERT
IR or IRR.	IRRIGATION
IRMH	IRRIGATION MANHOLE
IRWV	IRRIGATION WATER VALVE
L.F.	LINEAL FEET
LF	LINEAL FEET
LP	LIGHT POLE
L.S.	LUMP SUM
LT	LEFT
MAX.	MAXIMUM
MCSM	MESA COUNTY SURVEY MONUMENT
MIN	MINIMUM
N	NORTH
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	POINT OF CURVATURE
PSCO	PUBLIC SERVICE OF COLORADO
PT	POINT OF TANGENCY
PVC	POINT VERTICAL CURVE
PVC	POLYVINYLCHLORIDE PIPE
PVI	POINT VERTICAL INTERSECT
PVMT	PAVEMENT
PVT	POINT VERTICAL TANGENCY
R	RADIUS
R.O.W.	RIGHT-OF-WAY
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
S	SOUTH
S.Y.	SQUARE YARD
STA.	STATION
STD	STANDARD
SW	SIDEWALK
TC	TOP OF CURB
TEMP	TEMPORARY
TYP	TYPICAL
U.S.	UNITED STATES
UTIL	UTILITY
VC	VERTICAL CURVE
W	WEST
WM	WATER METER

LEGEND

- CITY SURVEY MARKER
- CITY SURVEY MARKER
- UP UTILITY POLE
- LP LIGHT POLE
- WV WATER VALVE
- WM WATER METER
- CB CATCH BASIN
- FH FIRE HYDRANT
- TPED TELEPHONE PEDESTAL
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- IRRIGATION MANHOLE
- WATER MANHOLE
- —ST— STORM DRAIN LINE
- —SS— SANITARY SEWER LINE
- —COM— COMMUNICATION LINE
- —TV— TELEVISION CABLE LINE
- —OH— OVERHEAD ELECTRIC LINE
- —UG-E— UNDERGROUND ELECTIC LINE
- PROPOSED DRAINAGE PATTERNS

GENERAL NOTES

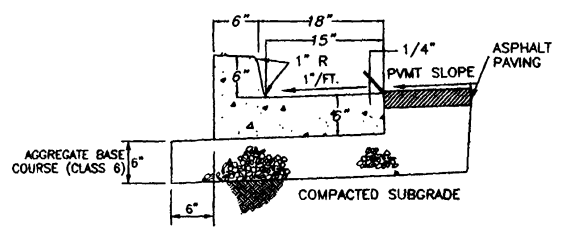
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF GRAND JUNCTION STANDARDS, EXHIBITS, AND SPECIFICATIONS (EXCLUDING MEASUREMENT AND PAYMENT) UNLESS OTHERWISE NOTED. THESE DRAWINGS TAKE PRECEDENCE WHEN A CONFLICT EXISTS BETWEEN THESE DRAWINGS AND THE ABOVE REQUIREMENTS.
2. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF GRAND JUNCTION STANDARDS AND SPECIFICATIONS (EXCLUDING MEASUREMENT AND PAYMENT). ALL TESTING IS THE CONTRACTORS RESPONSIBILITY.
3. ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH UTE WATER CONSERVANCY DISTRICT STANDARDS AND SPECIFICATIONS. ALL DISINFECTION AND TESTING IS THE CONTRACTORS RESPONSIBILITY.
4. THE CONTRACTOR SHALL HAVE ONE COPY OF THE PLANS AND A COPY OF THE CITY OF GRAND JUNCTION'S STANDARD EXHIBITS AND SPECIFICATIONS ON SITE AT ALL TIMES.
5. CONSTRUCTION STAKING IS THE CONTRACTORS RESPONSIBILITY.
6. THE CONTRACTOR WILL PROVIDE COMPACTION AND MATERIAL TESTING. THIS TESTING WILL BE PER THE CITY OF GRAND JUNCTION SPECIFICATION. PAGE RB-3. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL TESTING. ALL RE-TESTING WILL BE AT THE CONTRACTOR'S EXPENSE.
7. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. SIGNIFICANT EFFORT HAS BEEN MADE TO IDENTIFY THE EXISTING UTILITIES; HOWEVER, UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE DRAWINGS. ADDITIONALLY, THE DEPTH OF EXISTING UTILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FIELD BEFORE PERFORMING ANY WORK ON OR AROUND THEM. COORDINATE RELOCATION OF ALL UTILITIES AS NECESSARY TO INSTALL NEW IMPROVEMENTS.
8. THE CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED UTILITIES REGARDING RELOCATIONS AND ADJUSTMENTS DURING CONSTRUCTION TO ACCOMPLISH THE WORK IN A TIMELY MANNER WITH MINIMUM DISRUPTION IN SERVICE.
9. UNLESS OTHERWISE SPECIFIED, ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF ASTM-D698 WITHIN 2% OF OPTIMUM MOISTURE CONTENT.
10. ALL MATERIALS AND WORKMANSHIP WITHIN THE CITY R.O.W. ARE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP, WITHIN CITY RIGHT OF WAY, THAT DOES NOT CONFORM TO STANDARDS. THE OWNER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIAL AND WORKMANSHIP ON SITE THAT DOES NOT CONFORM TO STANDARDS.
11. THE CONTRACTOR SHALL NOTIFY CITY INSPECTION AND THE ENGINEER 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN CITY RIGHT OF WAY. NOT CONFORM TO STANDARDS.



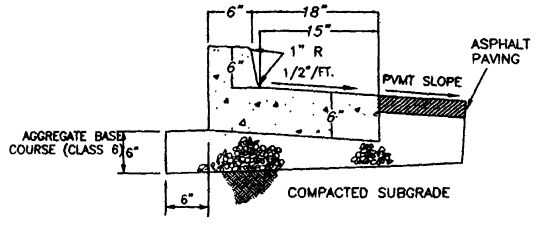
NOTE:
CURB FACES TO "SPILL" AND "CATCH"
CURB FACES WHEN ADJACENT.

CURB NOTES
1. COMPACT BASE COUNSE TO AT LEAST 95% OF AASHTO T-180.
2. COMPACT SUBGRADE TO AT LEAST 95% IF AASGTI T-199 WITHIN 2% OF OPTIMUM MOISTURE CONTENT.

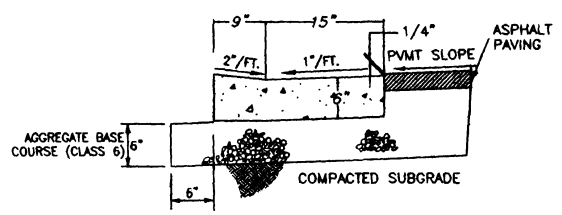
2' DRAINAGE CHANNEL
N.T.S.



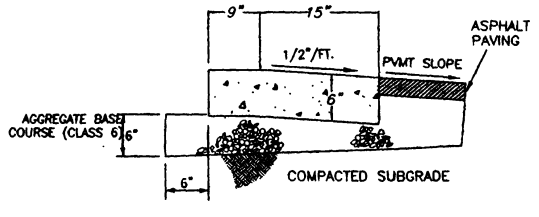
'CATCH' CURB & GUTTER
N.T.S.



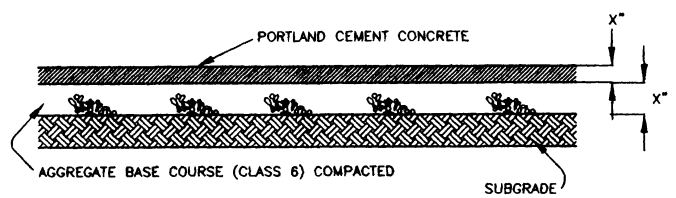
'SPILL' CURB & GUTTER
N.T.S.



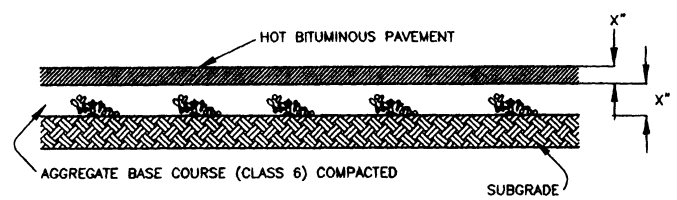
'CATCH' NO CURB
N.T.S. - ONSITE ONLY



'SPILL' NO CURB
N.T.S. - ONSITE ONLY



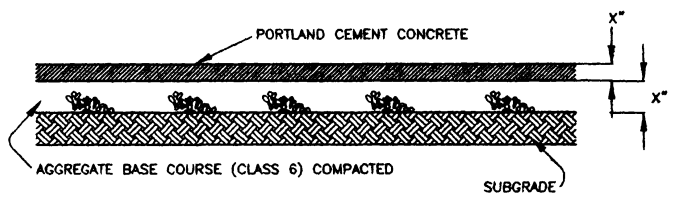
CONCRETE PAVEMENT SECTION (ON-SITE ONLY)
N.T.S.



ASPHALT PAVEMENT SECTION (ON-SITE ONLY)
N.T.S.

PAVEMENT NOTES:

1. USE OF GEOTEXTILE FABRIC FOR SEPARATION AND MINOR REINFORCEMENT PLACED BENEATH THE AGGREGATE BASE COURSE MAY BE REQUIRED IN SOME AREAS ON THE SITE, DEPENDING UPON SUBSOIL CONDITIONS ENCOUNTERED.



FIRST STREET PAVEMENT SECTION
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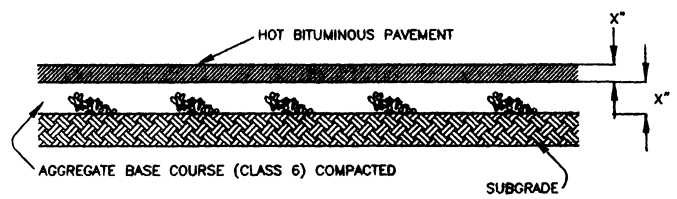

SECOND AND COLORADO PAVEMENT SECTION
N.T.S.

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

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TWO RIVERS CONVENTION CENTER
GENERAL NOTES AND TYPICAL SECTIONS

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Drawn	ESS	Date	2/5/01	Rev:	3/14/01	Of	18

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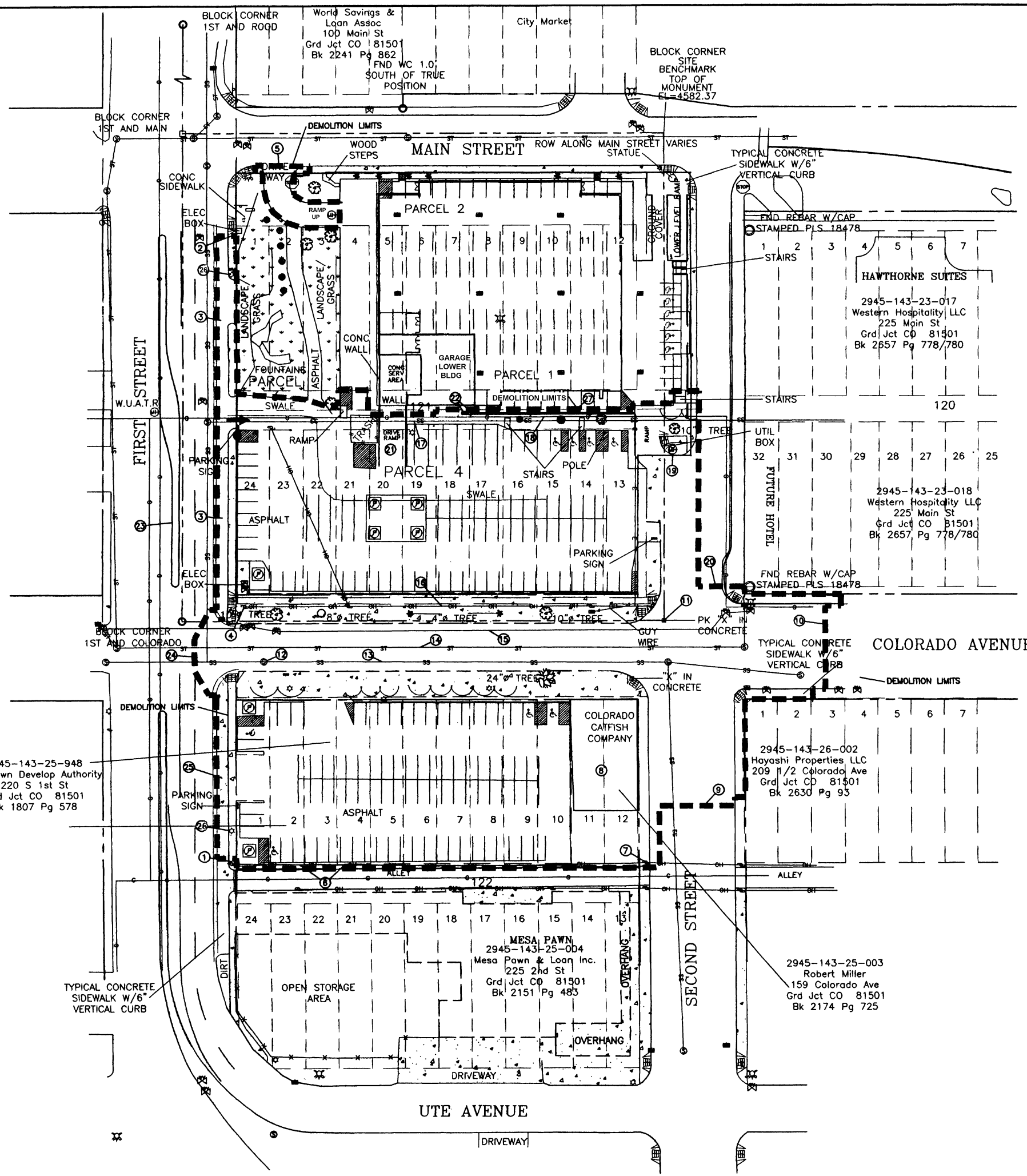

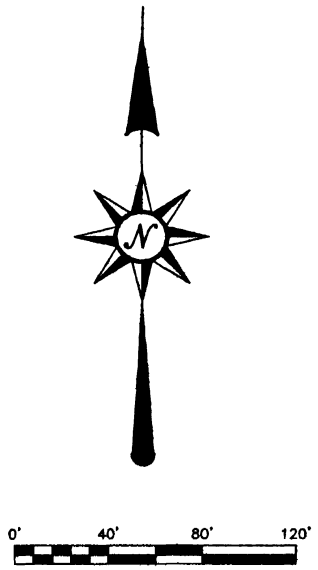

NOTES:

1. REMOVE CURB AND SIDEWALK FROM POWER POLE TO NORTH. POWER POLE TO REMAIN.
2. REMOVE CURB AND SIDEWALK FROM HC RAMP TO SOUTH.
3. REMOVE ASPHALT FROM EXISTING CONCRETE PAN TO CURB AND GUTTER.
4. UTILITY POLE AND GUY WIRE TO REMAIN.
5. REMOVE DRIVE CUT, ASPHALT AND CURB AT DRIVE RAMP.
6. OVERHEAD UTILITIES TO BE RELOCATED.
7. UTILITY POLE TO BE REMOVED/RELOCATED BEHIND NEW SIDEWALK.
8. REMOVE EXISTING BUILDING.
9. REMOVE CURB, GUTTER AND ASPHALT TO NORTH. SEE SHEET 11 FOR EXACT LOCATION.
10. REMOVE CURB, GUTTER AND ASPHALT TO WEST. SEE SHEET 11 FOR EXACT LOCATION.
11. MESA COUNTY SURVEY MARKER TO BE REFERENCED AND REPLACED.
12. MANHOLE LID TO BE RELOCATED TO WEST, BEHIND PROPOSED CURB AND GUTTER.
13. EXISTING SANITARY SEWER TO REMAIN. MANHOLES TO BE ADJUSTED TO PROPOSED GRADES.
14. EXISTING STORM SEWER TO REMAIN. MANHOLES TO BE ADJUSTED TO PROPOSED GRADES.
15. EXISTING WATERLINE TO REMAIN. WATER VALVES TO BE ADJUSTED TO PROPOSED GRADES.
16. OVERHEAD UTILITIES TO BE RELOCATED.
17. EXISTING SANITARY SEWER TO BE REMOVED OR PUMPED FULL OF CONCRETE.
18. EXISTING GAS LINE TO BE RELOCATED.
19. VERIFY USE OF EXISTING UTILITY BOX BEFORE REMOVAL.
20. REMOVE EXISTING ASPHALT WITHIN 5' OF PROPOSED SURFACE IMPROVEMENTS.
21. EXISTING DRIVE RAMP TO REMAIN.
22. EXISTING UTILITIES TO BUILDING TO BE RELOCATED AND/OR ABANDONED.
23. REMOVE CURB AND ASPHALT TO ACCOMMODATE PROPOSED. CURB.
24. REMOVE ASPHALT TO ACCOMMODATE PROPOSED GRADES.
25. EXISTING ASPHALT TO REMAIN UP TO 1 FT. FROM FROM EXISTING CURB.
26. LIGHT POLE TO REMAIN.
27. MODULAR BLOCK WALL IN PARKING GARAGE TO BE SALVAGED AND RETURNED TO CITY.

GENERAL NOTES:

1. REMOVE ALL SURFACE IMPROVEMENTS WITHIN DEMOLITION LIMITS UNLESS OTHERWISE NOTED.
2. SEE ARCHITECTURAL DEMOLITION PLAN FOR DEMOLITION AT EXISTING BUILDING.
3. REMOVE OLD FOUNDATIONS TO AT LEAST 2 FT. BELOW PROPOSED GRADE.

LEGEND

- DENOTES CALCULATED POSITION (NOTHING SET)
- DENOTES FOUND REBAR AS NOTED
- DENOTES SET #5 REBAR W/CAP STAMPED AES 24320
- DENOTES SET PK IN CONCRETE OR AS NOTED
- DENOTES CONTROL LINE FOR BLOCK
- DENOTES 5' CIRCUMFERENCE CONCRETE COLUMN
- DENOTES MAIN (TWO RIVERS) SIGN
- DENOTES STOP SIGN
- DENOTES PARKING SIGN
- DENOTES SIGNAL POLE
- DENOTES SIGN POST
- DENOTES WATER METER
- DENOTES WATER GRATE
- DENOTES ELECTRIC TRANSFORMER
- DENOTES UNDERGROUND ELECTRIC
- DENOTES SANITARY SEWER
- DENOTES STORM SEWER
- DENOTES FIRE HYDRANT
- DENOTES TELEPHONE BOX
- DENOTES OVERHEAD POWER/UTILITY
- DENOTES LIGHT POLE
- DENOTES LIGHT POLE
- DENOTES 1"ø TREE
- DENOTES 4"ø TREE
- DENOTES 6"ø TREE
- DENOTES 8"ø TREE
- DENOTES 10"ø TREE
- DENOTES 24"ø TREE
- DENOTES SHRUBS/HEDGE

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

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Grand Jct, CO 81503
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TWO RIVERS CONVENTION CENTER

SITE DEMOLITION PLAN

Designed	Checked	Proj#	Sheet
ESS	TDR	0088	3
Drawn	Date	Rv:	Of
ESS	2/5/01	3/14/01	18

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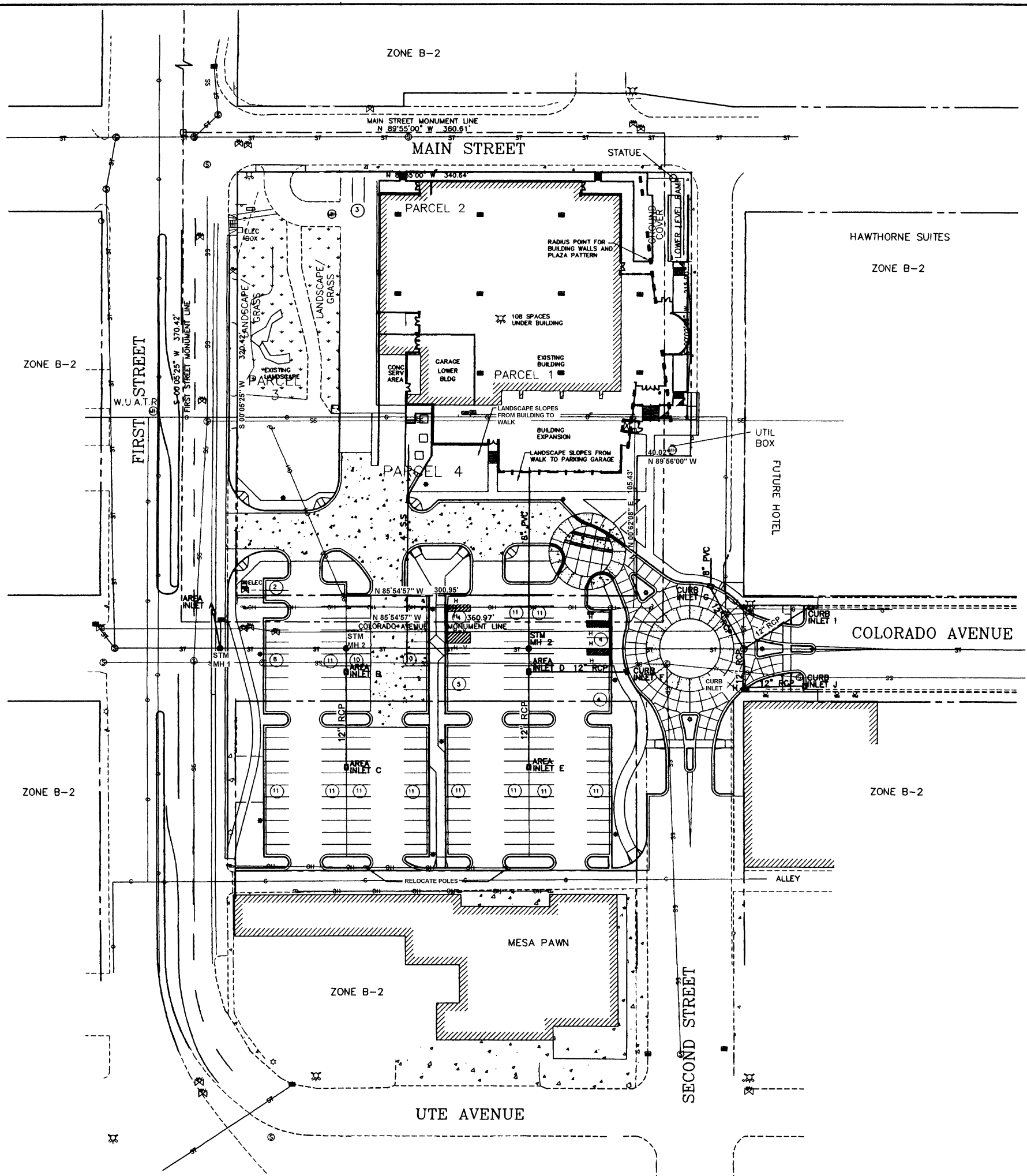

BENCHMARK

MCSM BLOCK CORNER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88

BASIS OF BEARING

MONUMENT LINE OF FIRST STREET
FROM MAIN STREET TO COLORADO AVENUE

0' 40' 80' 120'

UTILITY PROVIDERS	
DOMESTIC WATER	CITY OF GRAND JUNCTION
SANITARY SEWER	CITY OF GRAND JUNCTION
ELECTRIC	PUBLIC SERVICE COMPANY
GAS	PUBLIC SERVICE COMPANY
TELEPHONE	U.S. WEST
CABLE TV	TCI CABLEVISION

PARKING DATA	
UNDER BUILDING	111
SOUTH OF BUILDING	168
TOTAL PARKING SPACES	279
REQUIRED PARKING SPACES	249

LAND USE BREAKDOWN		
TWO RIVERS PARCEL		
BUILDING	0.87 AC.	36%
LANDSCAPE	0.51 AC.	21%
ASPHALT/CONCRETE	0.31 AC.	43%
TOTAL	1.03 AC.	100%
SOUTH OF COLORADO PARCEL		
BUILDING	0.00 AC.	0%
LANDSCAPE	0.14 AC.	16%
ASPHALT/CONCRETE	0.75 AC.	84%
TOTAL	0.89 AC.	100%

NOTES:

1. SEE SITE DEMOLITION PLAN FOR TREATMENT OF EXISTING UTILITIES AND SURFACE IMPROVEMENTS.
2. SEE ARCHITECTUAL DRAWINGS FOR BUILDING EXPANSION DIMENSIONS AND REQUIRED BUILDING DEMOLITION.

LEGEND

TEXTURED AND/OR COLORED CONCRETE

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

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405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

File Name: C:\0088\0088CMP.DWG

TWO RIVERS CONVENTION CENTER

COMPOSITE PLAN

Designed	Checked	Proj#	Sheet
ESS	TDR	0088	4
Drawn	Date	Rv.	Of
ESS	2/5/01	3/14/01	18

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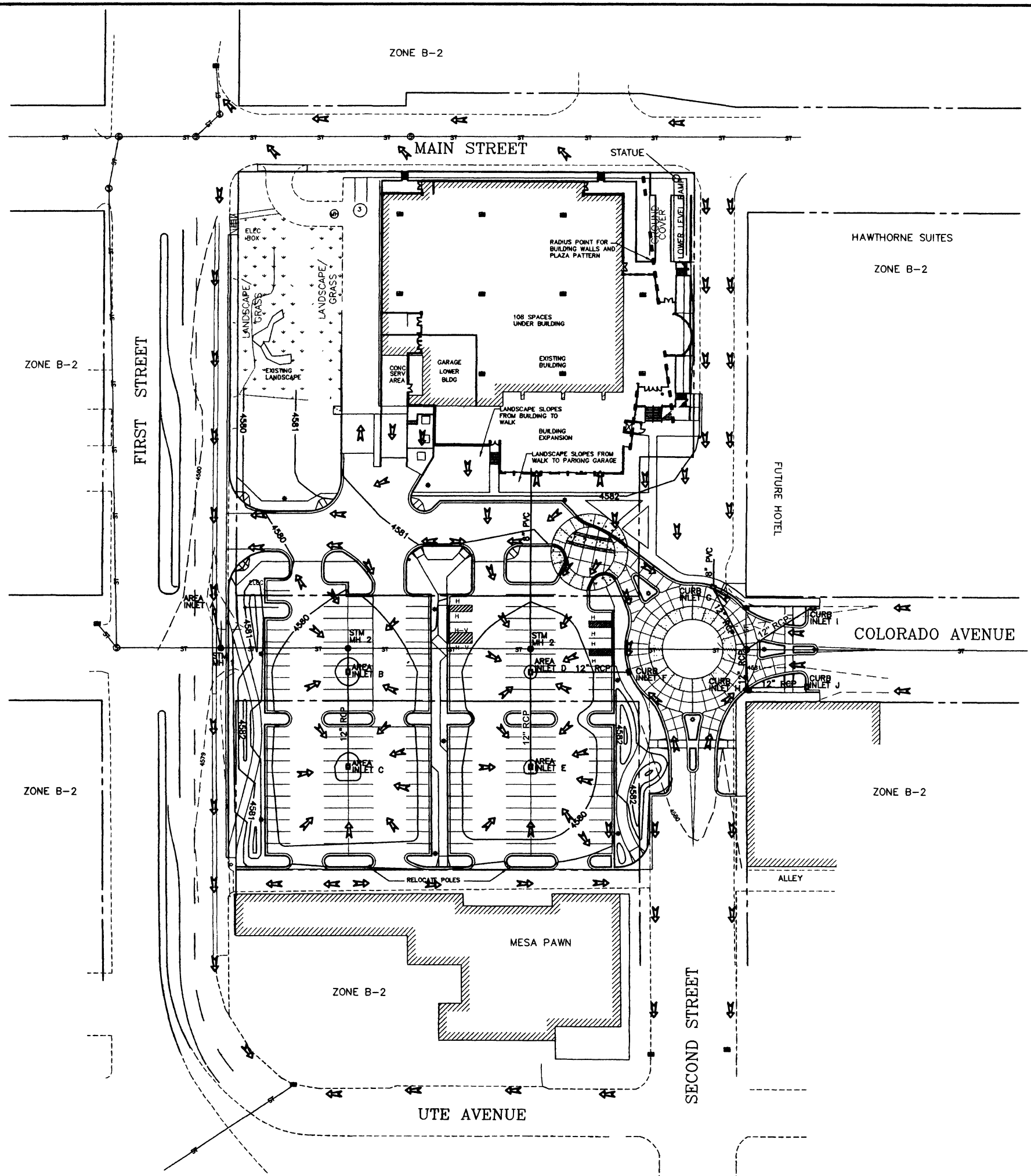
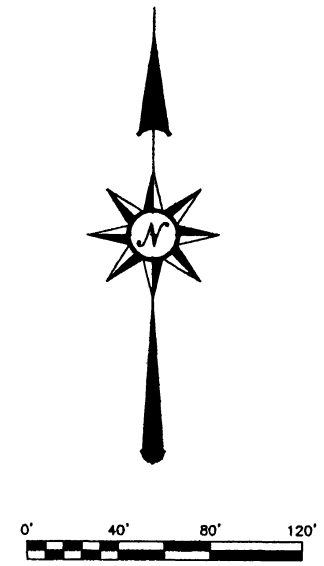


BENCHMARK
CITY SURVEY MARKER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88



ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

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405 Ridges Blvd
Grand Jct, CO 81503
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TWO RIVERS CONVENTION CENTER

GRADING AND DRAINAGE PLAN

Designed	Checked	Proj#	Sheet
ESS	TDR	0088	5
Drawn	Date	Rev	Of
ESS	2/5/01		18

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BLOCK CORNER
1ST AND ROOD

BLOCK CORNER
2ND AND MAIN
BENCHMARK
TOP OF
MONUMENT
EL=4582.37

N 89°55'00" W 360.61'
MAIN STREET MONUMENT LINE

MAIN STREET

20' R.O.W.

30' R.O.W.

30' R.O.W.

INSTALL 5 CONC. WALK
AND 6" VERTICAL CURB

N 89°55'00" W 340.64'

WOOD
STEPS

STATUE

STOP

RAMP
UP

REMOVE ASPHALT
AND CURB FOR RAMP

3

LOWER LEVEL RAMP

40' R.O.W.

HAWTHORNE SUITES

RADIUS POINT FOR
BUILDING WALLS AND
PLAZA PATTERN

0' 20' 40' 60'

60' R.O.W.

40' R.O.W.

LANDSCAPE/
GRASS

ASPHALT

LANDSCAPE/
GRASS

S 00°02'08" W 215.00'

SECOND STREET
PEDESTRIAN MALL

107 SPACES
UNDER BUILDING

EXISTING
LANDSCAPE

ASPHALT

CONC
SERV
AREA

GARAGE
LOWER
BLDG

EXISTING BUILDING

S 00°05'25" W 370.42'
FIRST STREET MONUMENT LINE

S 00°05'25" W 320.42'

WALK-THROUGH
UNDER RAMP

RETAINING
WALL (2')

RAMP @ 16%
WITH 10'
TRANSITION
@ TOP AND
BOTTOM

RETAINING WALL

RETAINING WALL

EXIST. DRIVE
RAMP UP

TRANS.

TRASH

BUILDING
EXPANSION

FUTURE HOTEL

N 89°55'00" W 40.02'

20' R.O.W.

60' R.O.W.

FIRST STREET

SEE SHEET 13

EX. CONC. PAN

5.5' SIDEWALK

24.0'

5.0'

20.5'

GATE
30'

N:35669.52
E:89679.83
LP

35.0'

78.0'

52.0'

58.9'

6.8'

111.7'

6.0'

7.2'

EX SIDEWALK

LP N:35659.52
E:89572.28

HC
RAMP

30'R

8.0'

15.0'

59.0'

25'R

7.0'R

CONCRETE

6.5'

N:35658.16
LP E:89781.59

CURB
TRANS.

105.43'

45°

90.7'

45°

BOLLARDS

NO CURB

NO CURB

ASPHALT

16.0'

23.0'

15.0'

N 90°00'00" E 272.51'

75.5'

42.6'

11.0'

92.4'

62.0'

15.0'

15.0'

23.0'

11.0'

12.0'

15'R

10'R

10'R

10'R

HC
RAMP

HC
RAMP

HC
RAMP

HC
RAMP

30'R

HC
RAMP

10'R

53.5'R

80'

29.0'

19.0'R

34.91'

R=30.00'

37.50'

1.2'

6.5'

11.0'

S 00°02'08" W 370.43'
SECOND STREET MONUMENT LINE

CURB
TRANS.

SEE SHEET 7

BOLLARDS

NO CURB

25.0'

R=25.00'

10'R

CURB

BOLLARDS

ASPHALT

N 89°54'57" W 300.95'

68.51'

20' R.O.W.

SIDEWALK
CHASE

41.04'

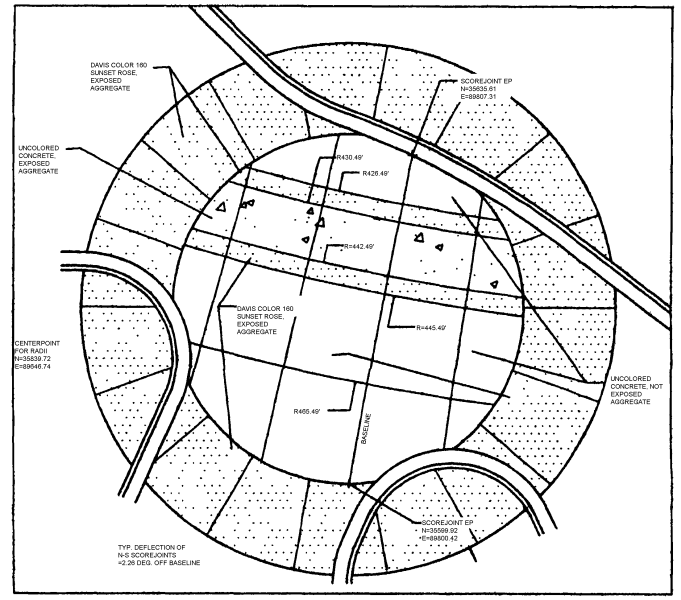
5.73'

N 89°54'57" W 360.97'
COLORADO AVENUE MONUMENT LINE

BLOCK CORNER
1ST AND COLORADO

BLOCK CORNER
2ND AND COLORADO

COLORADO AVENUE
SEE SHEET 11



SPEED TABLE MATERIALS SCALE: 1"=10'

NOTES:

1. "CURB TRANS." DENOTES WHERE CURN TRANSITION OCCURS FROM 6" TO 0" CURB. CATCH OR SPILL GUTTER REMAINS. SEE GRADING PLAN FOR DISTANCE OF TRANSITION.
2. SEE SHEET 7 FOR BOLLARD LOCATIONS.
3. SEE SHEET L2 FOR BOLLARD DETAIL.

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DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

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TWO RIVERS CONVENTION CENTER

SITE PLAN
NORTH

Designed	Checked	Proj#	Sheet
ESS	TDR	0088	6
Drawn	Date	Rv	Of
ESS	2/5/01	3/14/01	18

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SEE SHEET 6

SEE SHEET 13

FIRST STREET

SEE SHEET 13

S 00°05'25" W 370.42'

FIRST STREET MONUMENT LINE

68.51'

320.42'

LP N:35659.52 E:89572.28

HC RAMP

S 00°05'25" W

92.4'

15.0' 15.0' 15.0'

8.0'

62.0'

N 90°00'00" E 272.51'

75.5'

42.6'

BOLLARDS

N 00°02'08" E 105.43'

ELEC BOX

EX. UTILITY POLE AND GUY WIRE

N 89°54'57" W

300.95'

CURB TRANS.

CONCRETE

LP N:35575.47 E:89685.19

SIDEWALK RAMP

IRR

NO CURB

4 HC SPACES

360.97'

N 89°54'57" W

COLORADO AVENUE MONUMENT LINE

20' R.O.W.

COLORADO AVENUE

60' R.O.W.

ASPHALT

CURB TRANS.

PAINT STRIPING

CONCRETE

LP N:35541.59 E: 89555.20

LP N:35521.75 E:89821.69

LP N:35475.50 E:89691.70

LP N:35415.63 E:89555.20

LP N:35405.24 E: 89821.70

2' DRAINAGE CHANNEL

HC RAMP

BOLLARDS

COLORED CONCRETE

ASPHALT

S 37°30'00" E 40.97'

5.31'

3' CONC. PAN

6' SIDEWALK

6.5' SIDEWALK

8' SIDEWALK

EX SIDEWALK

EXISTING GRAVEL ALLEY

EXISTING GRAVEL ALLEY

COLORADO AVENUE

SECOND STREET

SEE SHEET 12

SEE SHEET 12

0' 20' 40' 60'

NOTE: POINTS SHOWN ARE CENTER POINTS

BOLLARD N=35642.94 E=89801.38

BOLLARD N=35640.71 E=89806.95

BOLLARD N=35638.13 E=89812.37

BOLLARD N=35620.39 E=89773.33

BOLLARD N=35635.21 E=89817.61

BOLLARD N=35631.97 E=89822.66

BOLLARD N=35616.76 E=89778.15

BOLLARD N=35597.65 E=89815.99

BOLLARD N=35598.97 E=89809.98

BOLLARD N=35595.12 E=89805.29

BOLLARD N=35610.78 E=89778.38

3.0' typ.

BOLLARD LOCATIONS SCALE: 1"=10'

NOTES:

1. "CURB TRANS." DENOTES WHERE CURN TRANSITION OCCURS FROM 6" TO 0" CURB. CATCH OR SPILL GUTTER REMAINS. SEE GRADING PLAN FOR DISTANCE OF TRANSITION.
2. SEE SHEET L2 FOR BOLLARD DETAIL.

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TWO RIVERS CONVENTION CENTER

SITE PLAN SOUTH

Designed	Checked	Proj#	Sheet
ESS	TDR	0088	7
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ESS	2/5/01	3/14/01	18

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BLOCK CORNER
1ST AND ROOD

BLOCK CORNER
2ND AND MAIN
BENCHMARK
TOP OF
MONUMENT
EL=4582.37

MAIN STREET

SECOND STREET

FIRST STREET

SEE SHEET 13

SEE SHEET 9

SEE SHEET 12

BLOCK CORNER
1ST AND COLORADO

BLOCK CORNER
2ND AND COLORADO
BENCHMARK

COLORADO AVENUE

MATCH EXISTING
SIDEWALK ELEVATION

WOOD
STEPS

RAMP
UP

STATUE

LOWER LEVEL RAMP

RADIUS POINT FOR
BUILDING WALLS AND
PLAZA PATTERN

ASPHALT

LANDSCAPE/
GRASS

EXISTING
LANDSCAPE

107 SPACES
UNDER BUILDING

CONC
SERV
AREA

GARAGE
LOWER
BLDG

EXISTING BUILDING

RAMP DOWN

RAMP UP

END BLOCK RETAINING WALL (BY
CITY OF GRAND JUNCTION) AT
CORNER OF EQUIPMENT ROOM

TOP OF WALL = 80.50
BOTTOM OF WALL = 79

SLOPE LANDSCAPE FROM BACK
OF WALK TO TOP OF WALL

78.35 @ PARKING LEVEL
78.95 TOP OF
CURB

BEGIN BLOCK RETAINING WALL (BY CITY
OF GRAND JUNCTION) AT END OF
CONCRETE STRUCTURAL WALL
BOTTOM OF WALL = 79

TOP OF WALL =80.50
BOTTOM OF WALL = 79

TOP OF WALL UNDER
BRACING = 81.25

3:1 MAX FROM PLAZA TO
TOP OF WALL

T.O.W. 80.50

SLOPE LANDSCAPE FROM BACK
OF WALK TO TOP OF WALL

EXISTING SIDEWALK

SPILL TO CATCH
TRANSITION

CATCH

BENCHMARK

MCSM BLOCK CORNER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88

0' 20' 40' 60'

NOTES:

1. ADD 4500 TO ALL SPOT ELEVATIONS.
2. ALL CURB IS "SPILL" UNLESS OTHERWISE NOTED.
3. ALL SIDEWALKS TO SLOPE AT 2% EITHER AWAY FROM BUILDING OR TOWARD CURB AND GUTTER.
4. SEE SHEET 5 FOR ADDITIONAL GRADING IN LANDSCAPE AREAS.

LEGEND:

80.81TC	TOP OF CURB
80.75SW	SIDEWALK
79.30FL	FLOW LINE
80.40TA	TOP ASHPALT
80.58TP	TOP CONCRETE
55.6g	GROUND
78.78GR	INLET GRATE
	GRADE BREAK

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TWO RIVERS CONVENTION CENTER

GRADING PLAN NORTH

Designed	ESS	Checked	TDR	Proj#	0088
Drawn	ESS	Date	2/5/01	Rv.	3/14/01

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SEE SHEET 8

SEE SHEET 13

SEE SHEET 13

FIRST STREET

SECOND STREET

SEE SHEET 12

COLORADO AVENUE

BENCHMARK

MCSM BLOCK CORNER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88

0' 20' 40' 60'

NOTES:

1. ADD 4500 TO ALL SPOT ELEVATIONS.
2. ALL CURB IS "SPILL" UNLESS OTHERWISE NOTED.
3. ALL SIDEWALKS TO SLOPE AT 2% EITHER AWAY FROM BUILDING OR TOWARD CURB AND GUTTER.
4. SEE SHEET 5 FOR ADDITIONAL GRADING IN LANDSCAPE AREAS.

LEGEND:

x 80.81TC	TOP OF CURB
80.75SW x	SIDEWALK
79.30FL x	FLOW LINE
80.40TA x	TOP ASHPALT
x 80.59TP	TOP CONCRETE
x 55.6g	GROUND
x 78.78GR	INLET GRATE
— — —	GRADE BREAK

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TWO RIVERS CONVENTION CENTER

GRADING PLAN SOUTH

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W.U.A.T.R.

EX. SAN MH
RIM: 4580.10
INV: 4567.95(N&S)
INV: 4568.30(SE)

EX. GAS TO BE RELOCATED

EX TRANS

GREASE INTERCEPTOR

TRANS

TRASH

EX. SAN TO BE ABANDONED

STORM SEWER TO CONNECT TO NEW PARKING LEVEL INLETS AND NEW ROOF DRAINS

EX UTIL BOX

STAIRS

FUTURE HOTEL

FIRST STREET

EX. OVERHEAD ELECTRIC TO BE RELOCATED

165 LF 4" S.S. @ 2.0%

130 LF 8" PVC @ 0.8%

C.O.

ELEC BOX

AREA INLET
GRATE: 4578.67
INV: 4575.56

EX. 12" SAN

UP GUY

EX. OVERHEAD ELECTRIC TO BE UNDERGROUND

CURB INLET G
TBC: 4580.57
INV: 4577.52

20 LF 8" PVC @ 0.5%

63 LF 12" RCP @ 1.0%

CURB INLET I
TBC: 4581.00
INV: 4577.95

EX. SQUARE STM MH
RIM: 4579.36
INV: 4575.26(NW)
INV: 4571.73(N&E)

EX. WATER

28 LF 12" RCP @ 4%

EX. SQUARE STM MH
RIM: 4581.26
INV: 4576.96 (N&S)
INV: 4575.76 (E&W)

COLORADO AVENUE

EX. 36" RCP

STM MH 2
RIM: 4579.15
INV: 4573.2±(MATCH EX)
INV: 4574.78(N&S)

STM MH 3
RIM: 4579.27
INV: 4574.4±(MATCH EX)
INV: 4574.90(N&S)

STM MH 1
RIM: 4579.00
INV: 4572.4±(MATCH EX)
INV: 4574.40(N)

EX. 24" SAN

18 LF 12" RCP @ 2.5%

AREA INLET B
GRATE: 4578.78
INV: 4575.23

INV 4568.5±

AREA INLET D
GRATE: 4578.90
INV: 4575.35

74 LF 12" RCP @ 2.5%

CURB INLET F
TBC: 4580.25
INV: 4577.20

EX. SAN MH
RIM: 4579.60
INV: 4564.51(E&W)

EX SAN MH RIM TO BE RELOCATED BEHIND PROPOSED CURB AND GUTTER

CURB INLET H
TBC: 4580.35
INV: 4577.30

43 LF 12" RCP @ 1.0%

CURB INLET J
TBC: 4580.80
INV: 4577.75

72 LF 12" RCP @ 1.0%

AREA INLET C
GRATE: 4578.78
INV: 4575.95

AREA INLET E
GRATE: 4578.90
INV: 4576.07

EX. OVERHEAD ELECTRIC TO BE RELOCATED

RELOCATE POLES

SECOND STREET

ALLEY

0' 20' 40' 60'

NOTES:

1. EXISTING MANHOLES AND WATER VALVES TO BE ADJUSTED TO NEW GRADES

UTILITY PROVIDERS	
DOMESTIC WATER	CITY OF GRAND JUNCTION
SANITARY SEWER	CITY OF GRAND JUNCTION
ELECTRIC	PUBLIC SERVICE COMPANY
GAS	PUBLIC SERVICE COMPANY
TELEPHONE	U.S. WEST
CABLE TV	TCI CABLEVISION

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TWO RIVERS CONVENTION CENTER
UTILITY PLAN

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ESS	2/5/01	3/14/01	18

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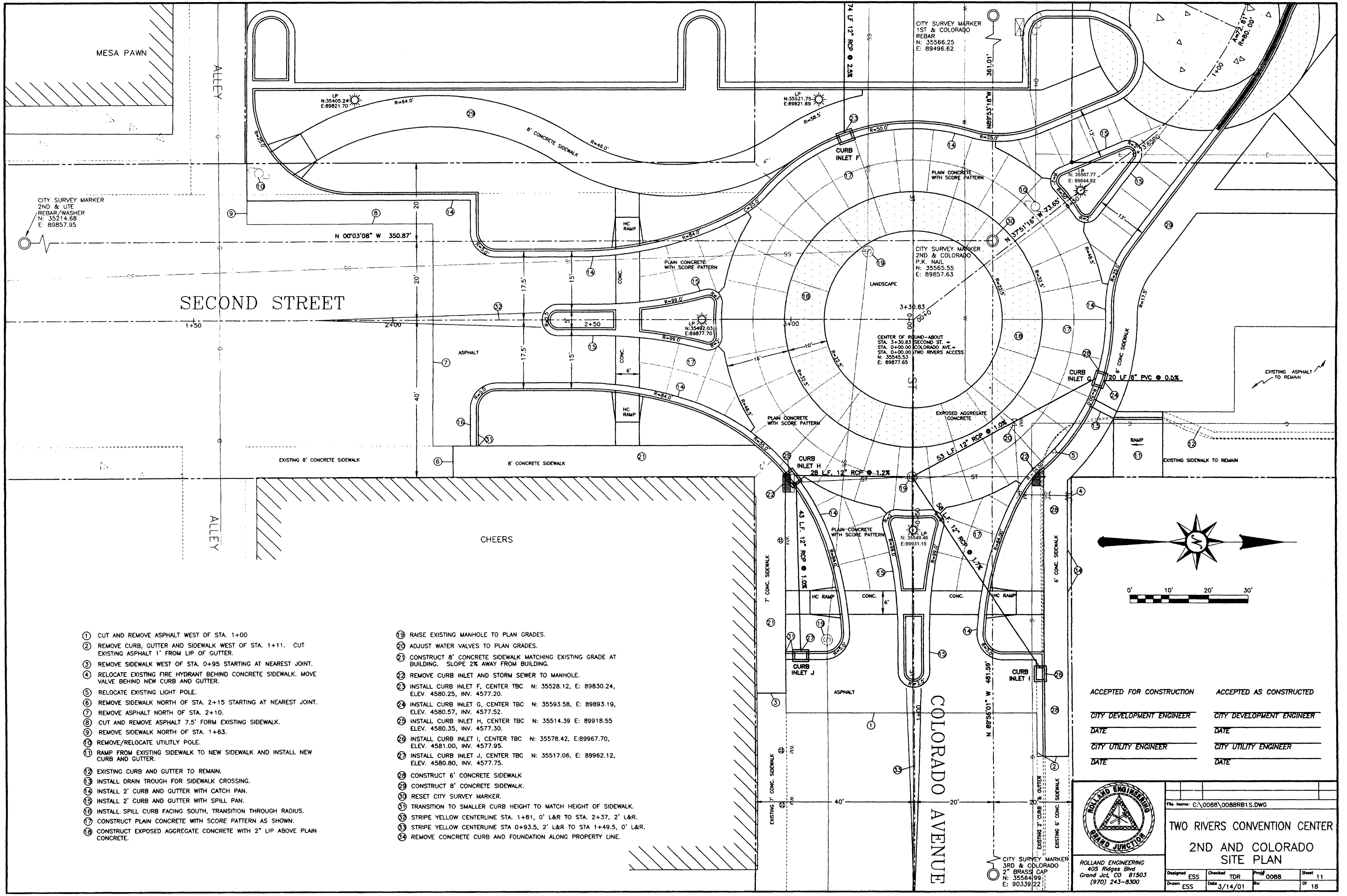

1. CUT AND REMOVE ASPHALT WEST OF STA. 1+00
2. REMOVE CURB, GUTTER AND SIDEWALK WEST OF STA. 1+11. CUT EXISTING ASPHALT 1' FROM LIP OF GUTTER.
3. REMOVE SIDEWALK WEST OF STA. 0+95 STARTING AT NEAREST JOINT.
4. RELOCATE EXISTING FIRE HYDRANT BEHIND CONCRETE SIDEWALK. MOVE VALVE BEHIND NEW CURB AND GUTTER.
5. RELOCATE EXISTING LIGHT POLE.
6. REMOVE SIDEWALK NORTH OF STA. 2+15 STARTING AT NEAREST JOINT.
7. REMOVE ASPHALT NORTH OF STA. 2+10.
8. CUT AND REMOVE ASPHALT 7.5' FORM EXISTING SIDEWALK.
9. REMOVE SIDEWALK NORTH OF STA. 1+63.
10. REMOVE/RELOCATE UTILITLY POLE.
11. RAMP FROM EXISTING SIDEWALK TO NEW SIDEWALK AND INSTALL NEW CURB AND GUTTER.
12. EXISTING CURB AND GUTTER TO REMAIN.
13. INSTALL DRAIN TROUGH FOR SIDEWALK CROSSING.
14. INSTALL 2' CURB AND GUTTER WITH CATCH PAN.
15. INSTALL 2' CURB AND GUTTER WITH SPILL PAN.
16. INSTALL SPILL CURB FACING SOUTH, TRANSITION THROUGH RADIUS.
17. CONSTRUCT PLAIN CONCRETE WITH SCORE PATTERN AS SHOWN.
18. CONSTRUCT EXPOSED AGGREGATE CONCRETE WITH 2" LIP ABOVE PLAIN CONCRETE.
19. RAISE EXISTING MANHOLE TO PLAN GRADES.
20. ADJUST WATER VALVES TO PLAN GRADES.
21. CONSTRUCT 8' CONCRETE SIDEWALK MATCHING EXISTING GRADE AT BUILDING. SLOPE 2% AWAY FROM BUILDING.
22. REMOVE CURB INLET AND STORM SEWER TO MANHOLE.
23. INSTALL CURB INLET F, CENTER TBC N: 35528.12, E: 89830.24, ELEV. 4580.25, INV. 4577.20.
24. INSTALL CURB INLET G, CENTER TBC N: 35593.58, E: 89893.19, ELEV. 4580.57, INV. 4577.52.
25. INSTALL CURB INLET H, CENTER TBC N: 35514.39 E: 89918.55 ELEV. 4580.35, INV. 4577.30.
26. INSTALL CURB INLET I, CENTER TBC N: 35578.42, E:89967.70, ELEV. 4581.00, INV. 4577.95.
27. INSTALL CURB INLET J, CENTER TBC N: 35517.06, E: 89962.12, ELEV. 4580.80, INV. 4577.75.
28. CONSTRUCT 6' CONCRETE SIDEWALK
29. CONSTRUCT 8' CONCRETE SIDEWALK.
30. RESET CITY SURVEY MARKER.
31. TRANSITION TO SMALLER CURB HEIGHT TO MATCH HEIGHT OF SIDEWALK.
32. STRIPE YELLOW CENTERLINE STA. 1+81, 0' L&R TO STA. 2+37, 2' L&R.
33. STRIPE YELLOW CENTERLINE STA 0+93.5, 2' L&R TO STA 1+49.5, 0' L&R.
34. REMOVE CONCRETE CURB AND FOUNDATION ALONG PROPERTY LINE.

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TWO RIVERS CONVENTION CENTER
2ND AND COLORADO
SITE PLAN

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ESS	3/14/01		18

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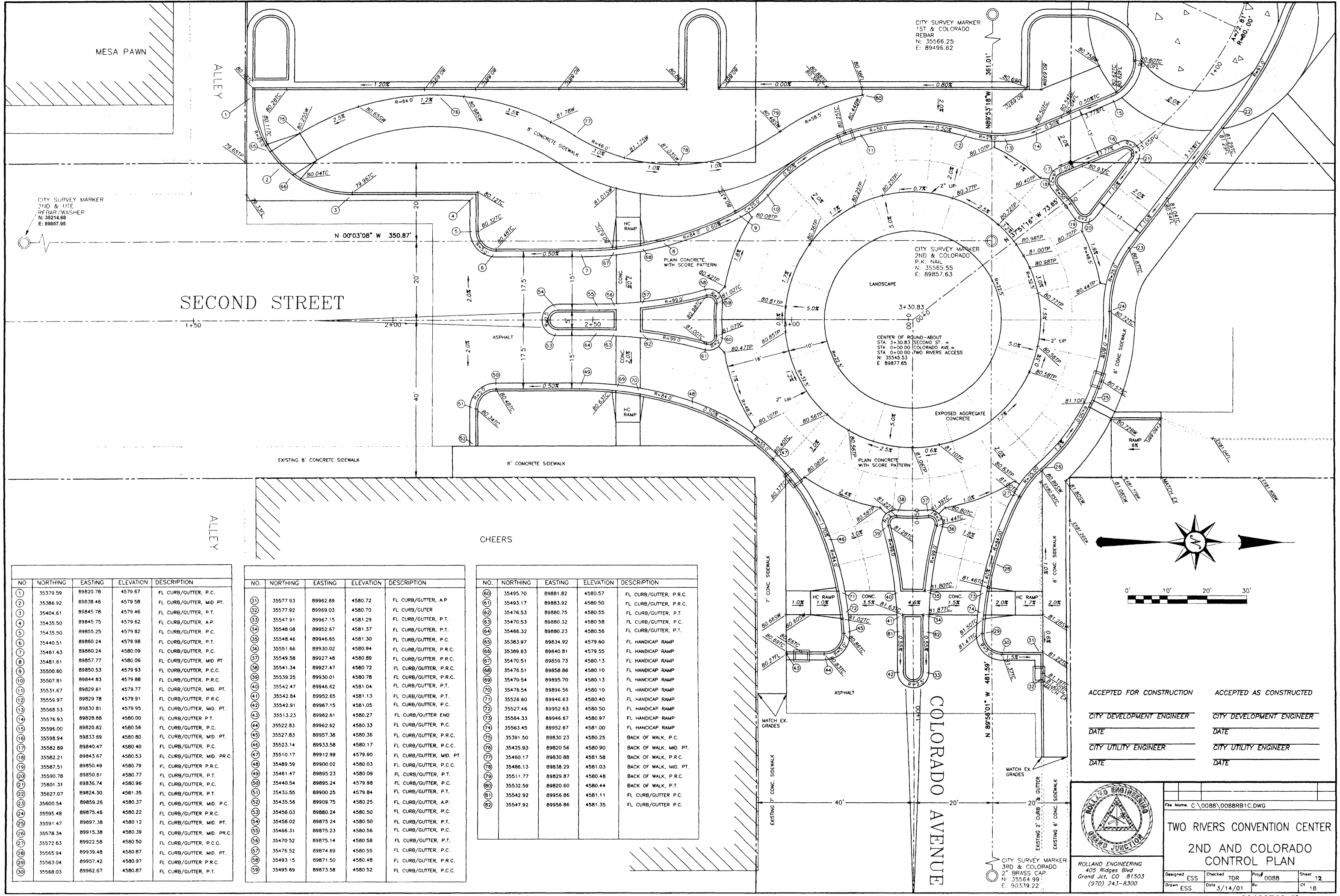

NO	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	35379.59	89820.78	4579.67	FL CURB/GUTTER, P.C.
2	35386.92	89838.46	4579 58	FL CURB/GUTTER, MID PT.
3	35404.61	89845 78	4579 46	FL CURB/GUTTER, P.T.
4	35435.50	89845.75	4579.62	FL CURB/GUTTER, A.P.
5	35435.50	89855.25	4579 82	FL CURB/GUTTER, P.C.
6	35440.51	89860.24	4579.98	FL CURB/GUTTER, P.T.
7	35461.43	89860.24	4580.09	FL CURB/GUTTER, P.C.
8	35481.61	89857.77	4580 06	FL CURB/GUTTER, MID PT
9	35500.60	89850.53	4579 93	FL CURB/GUTTER, P.C.C.
10	35507.81	89844 83	4579 88	FL CURB/GUTTER, P.R.C.
11	35531.67	89829.61	4579.77	FL CURB/GUTTER, MID. PT.
12	35559.97	89829 78	4579.91	FL CURB/GUTTER, P.R.C.
13	35568.53	89830 81	4579 95	FL CURB/GUTTER, MID. PT.
14	35576.93	89828.88	4580.00	FL CURB/GUTTER P.T.
15	35596.00	89820.82	4580.56	FL CURB/GUTTER, P.C.
16	35598.94	89833 69	4580 80	FL CURB/GUTTER, MID. PT.
17	35582.89	89840.47	4580.40	FL CURB/GUTTER, P.C.
18	35582.21	89843 67	4580.53	FL CURB/GUTTER, MID. PR.C.
19	35587.51	89850.49	4580.79	FL CURB/GUTTER P.R.C.
20	35590.78	89850.61	4580.77	FL CURB/GUTTER, P.T.
21	35601.31	89836.74	4580.96	FL CURB/GUTTER, P.C.
22	35627.07	89824.30	4581.35	FL CURB/GUTTER, P.T.
23	35600.54	89859.26	4580.37	FL CURB/GUTTER, MID. P.C.
24	35595.48	89875.46	4580.22	FL CURB/GUTTER P.R.C.
25	35591.47	89897.38	4580 12	FL CURB/GUTTER, MID. PT.
26	35578.34	89915.38	4580.39	FL CURB/GUTTER, MID. PR.C.
27	35572.63	89922.58	4580 50	FL CURB/GUTTER, P.C.C.
28	35565.94	89939.48	4580 87	FL CURB/GUTTER, MID. PT.
29	35563.04	89957.42	4580.97	FL CURB/GUTTER P.R.C.
30	35568.03	89962.67	4580.87	FL CURB/GUTTER, P.T.

NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
31	35577 93	89962.69	4580.72	FL CURB/GUTTER, A.P
32	35577.92	89969.03	4580.70	FL CURB/GUTTER
33	35547.91	89967.15	4581.29	FL CURB/GUTTER, P.T.
34	35548.08	89952.67	4581.37	FL CURB/GUTTER, P.T.
35	35548.46	89946.65	4581.30	FL CURB/GUTTER, P.C.
36	35551.66	89930.02	4580.94	FL CURB/GUTTER, P.R.C.
37	35549.58	89927.48	4580.89	FL CURB/GUTTER, P.R.C.
38	35541.34	89927.47	4580.72	FL CURB/GUTTER, P.R.C.
39	35539.25	89930.01	4580.78	FL CURB/GUTTER, P.R.C.
40	35542.47	89946.62	4581.04	FL CURB/GUTTER, P.T.
41	35542.84	89952.65	4581.13	FL CURB/GUTTER, P.T.
42	35542.91	89967.15	4581.05	FL CURB/GUTTER, P.C.
43	35513.23	89962.61	4580.27	FL CURB/GUTTER END
44	35522.83	89962.62	4580.33	FL CURB/GUTTER, P.C.
45	35527.83	89957.38	4580.36	FL CURB/GUTTER, P.R.C.
46	35523.14	89933.58	4580.17	FL CURB/GUTTER, P.C.C.
47	35510.17	89912.99	4579.90	FL CURB/GUTTER, MID. PT
48	35489.59	89900.02	4580.03	FL CURB/GUTTER, P.C.C.
49	35461.47	89895.23	4580.09	FL CURB/GUTTER, P.T.
50	35440.54	89895.24	4579.98	FL CURB/GUTTER, P.C.
51	35435.55	89900.25	4579.84	FL CURB/GUTTER, P.T.
52	35435.56	89909.75	4580.25	FL CURB/GUTTER, A.P.
53	35456.03	89880.24	4580.50	FL CURB/GUTTER, P.C.
54	35456.02	89875.24	4580.50	FL CURB/GUTTER, P.T.
55	35466.31	89875.23	4580.56	FL CURB/GUTTER, P.C.
56	35470 52	89875.14	4580.58	FL CURB/GUTTER, P.T.
57	35476.52	89874 69	4580.55	FL CURB/GUTTER, P.C.
58	35493.15	89871.50	4580.48	FL CURB/GUTTER, P.R.C.
59	35495 69	89873.58	4580.52	FL CURB/GUTTER, P.C.C.

NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
60	35495.70	89881.82	4580.57	FL CURB/GUTTER, P.R.C.
61	35493.17	89883.92	4580.50	FL CURB/GUTTER, P.R.C.
62	35476.53	89880.75	4580.55	FL CURB/GUTTER, P.T.
63	35470.53	89880.32	4580.58	FL CURB/GUTTER, P.C.
64	35466.32	89880.23	4580.56	FL CURB/GUTTER, P.T.
65	35383.97	89834.92	4579.60	FL HANDICAP RAMP
66	35389.63	89840.81	4579.55	FL HANDICAP RAMP
67	35470.51	89859.73	4580.13	FL HANDICAP RAMP
68	35476.51	89858.86	4580.10	FL HANDICAP RAMP
69	35470.54	89895.70	4580.13	FL HANCICAP RAMP
70	35476.54	89896.56	4580 10	FL HANDICAP RAMP
71	35526 60	89946.63	4580.40	FL HANDICAP RAMP
72	35527.46	89952 63	4580.50	FL HANDICAP RAMP
73	35564.33	89946.67	4580.97	FL HANDICAP RAMP
74	35563.45	89952.67	4581.00	FL HANCICAP RAMP
75	35391.50	89830.23	4580.25	BACK OF WALK, P.C.
76	35425.93	89820 56	4580.90	BACK OF WALK, MID. PT.
77	35460.17	89830 88	4581.58	BACK OF WALK, P.R.C.
78	35486.13	89838.29	4581.03	BACK OF WALK, MID. PT.
79	35511.77	89829.87	4580.48	BACK OF WALK, P.R.C.
80	35532.59	89820.60	4580.44	BACK OF WALK, P.T.
81	35542 92	89956.86	4581.11	FL CURB/GUTTER P.C.
82	35547.92	89956.86	4581.35	FL CURB/GUTTER P.C.

ACCEPTED FOR CONSTRUCTION

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE

ACCEPTED AS CONSTRUCTED

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

File Name: C:\0088\0088RB1C.DWG

TWO RIVERS CONVENTION CENTER

2ND AND COLORADO CONTROL PLAN

Designed ESS	Checked TDR	Proj# 0088	Sheet 12
Drawn ESS	Date 3/14/01	Rv:	Of 18

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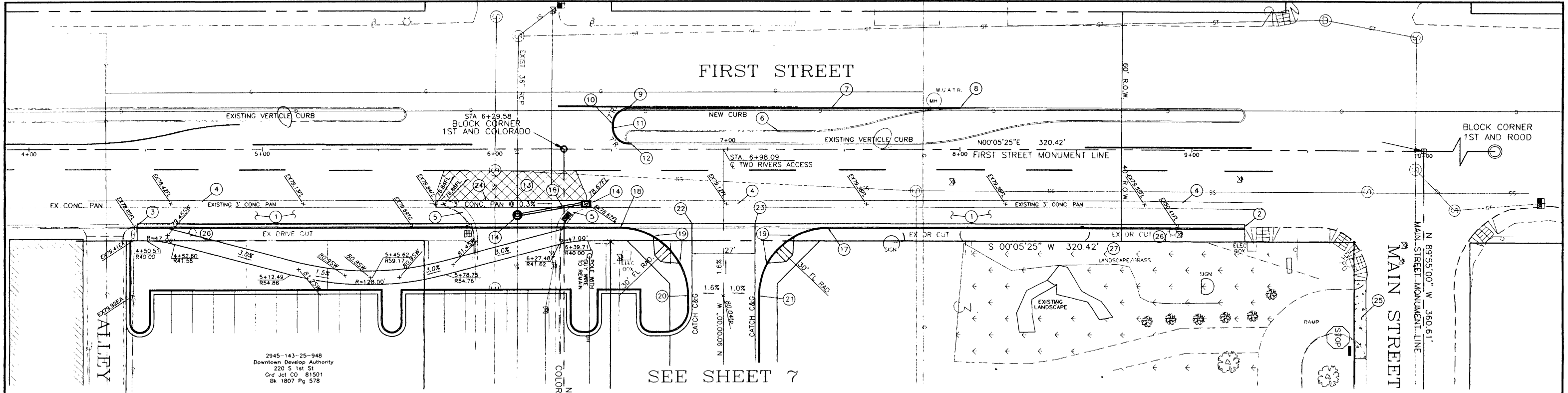
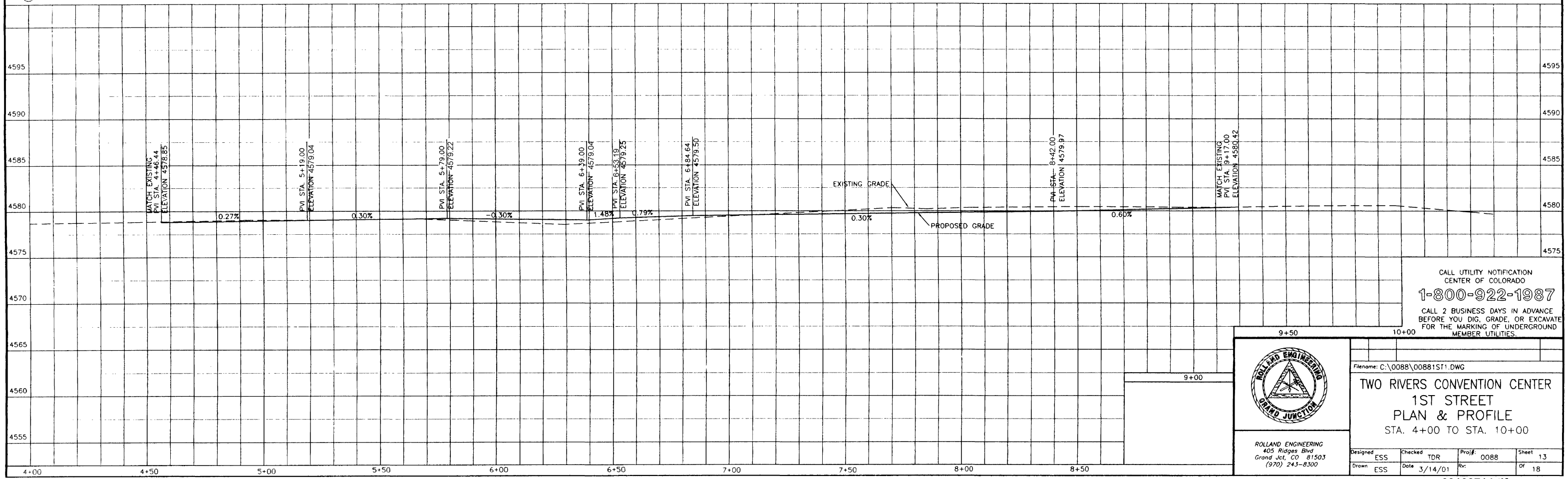


CONSTRUCTION NOTES:

1. REMOVE / REPLACE EXISTING ASPHALT FROM CONCRETE PAN TO CURB AND GUTTER. SEE STRUCTURAL SECTION ON SHEET 2.
2. STA. 9+22.94 REMOVE CURB, GUTTER, AND SIDEWALK SOUTH OF HANDICAP RAMP.
3. STA. 4+46.44 REMOVE CURB, GUTTER, AND SIDEWALK NORTH OF UTILITY POLE.
4. CONCRETE DRAIN PAN TO REMAIN.
5. REMOVE CONCRETE DRAIN PAN AT POINT OF CURVATURE.
6. REMOVE AND DISPOSE OF VERTICLE CURB.
7. CUT EXISTING ASPHALT AND INSTALL 6" BARRIER CURB (CDOT M-609-1) TOP OF CURB 4" ABOVE EXISTING ASPHALT.
8. STA. 7+99.96, OFF 18.23' LT. MATCH EXISTING TOP OF CURB.
9. STA. 6+57.29, OFF 18.00' LT. PC FACE OF CURB.
10. STA. 6+50.30, OFF 11.00' LT. PC FACE OF CURB.
10. STA. 6+50.31, OFF 11.00' LT. PT FACE OF CURB.
11. STA. 6+50.31, OFF 9.23' LT. PC FACE OF CURB.
12. STA. 6+58.69, OFF 2.25' LT. MATCH EXIST. TOP OF CURB.
13. CUT EXISTING ASPHALT TO APPROXIMATELY THE LIMITS SHOWN REMOVE ASPHALT AND STRUCTURAL SECTION. REPLACE ASPHALT AT STRAIGHT GRADE FROM LANE LINE TO NEW CONCRETE PAN.
14. STA. 6+39.08, OFF 22.39' RT. INSTALL AREA INLET WITH INVERT GRATE IN LINE WITH EXISTING CONCRETE PAN GRATE EL=4578.67, INV=4575.50.
15. STA. 6+09.63, OFF 28.50' RT. INSTALL STM MANHOLE OVER EXISTING 36" RCP RIM=4578.98, INV=4572.4±(E,W) MATCH EX., INV=4574.40(N).
16. INSTALL 28 L.F. 12" RCP @ 4.0%.
17. STA. 7+43.19, OFF 34.00' RT. PT FLOWLINE EL=4579.67.
18. STA. 6+53.19, OFF 34.00' RT. PC FLOWLINE EL=4579.25.
19. TRANSITION FROM SPILL C&G TO CATCH C&G THROUGH HANDICAP RAMP.
20. STA. 6+83.19, OFF 63.95' RT. PT FLOWLINE EL=4579.68.
21. STA. 7+13.19, OFF 64.05' RT. PC FLOWLINE EL=4579.77.
22. STA. 6+84.64, OFF 32.50' RT. EDGE OF CONCRETE EL=4579.65.
23. STA. 7+11.64, OFF 32.50' RT. EDGE OF CONCRETE EL=4579.44.
24. INSTALL 3' CONCRETE DRAIN PAN TO GRADES SHOWN.
25. REMOVE DRIVE CUT. INSTALL SIDEWALK WITH VERTICAL CURB. MATCH EXISTING GRADES.
26. LIGHT POLE TO REMAIN
27. GRADE LANDSCAPE AREA AT 4:1 AND RE-SEED.

0' 20' 40' 60'

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE



CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

Filename: C:\0088\00881ST1.DWG

TWO RIVERS CONVENTION CENTER
1ST STREET
PLAN & PROFILE
STA. 4+00 TO STA. 10+00

Designed	Checked	Proj#	Sheet
ESS	TDR	0088	13
Drawn	Date	Rv:	Of
ESS	3/14/01		18

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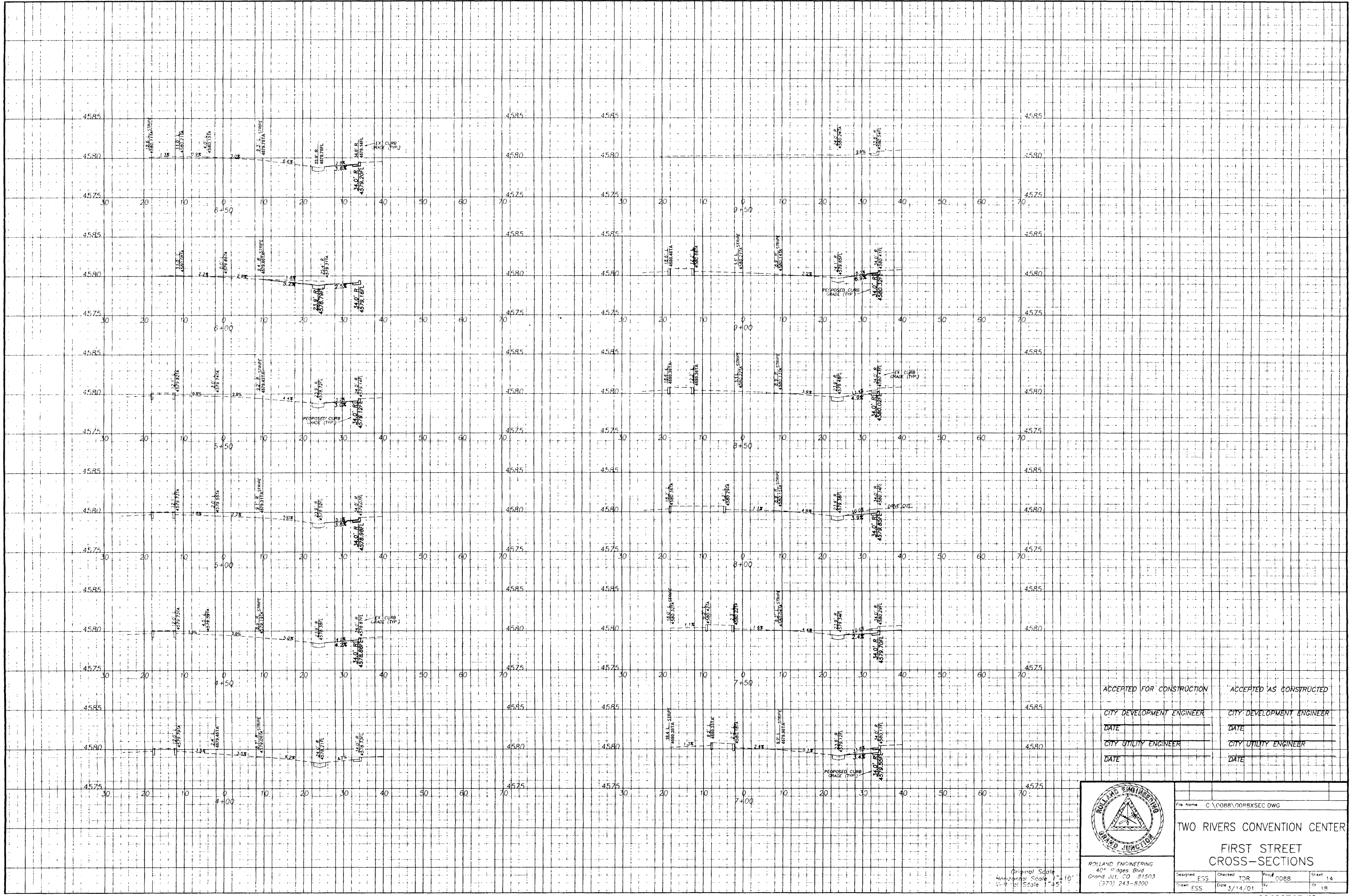

ACCEPTED FOR CONSTRUCTION

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE

ACCEPTED AS CONSTRUCTED

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

Original Scale
Horizontal Scale 1"=10'
Vertical Scale 1"=5'

File Name C:\0088\0088XSEC.DWG

TWO RIVERS CONVENTION CENTER

FIRST STREET CROSS-SECTIONS

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Drawn	ESS	Date	3/14/01	Rv		Of	18

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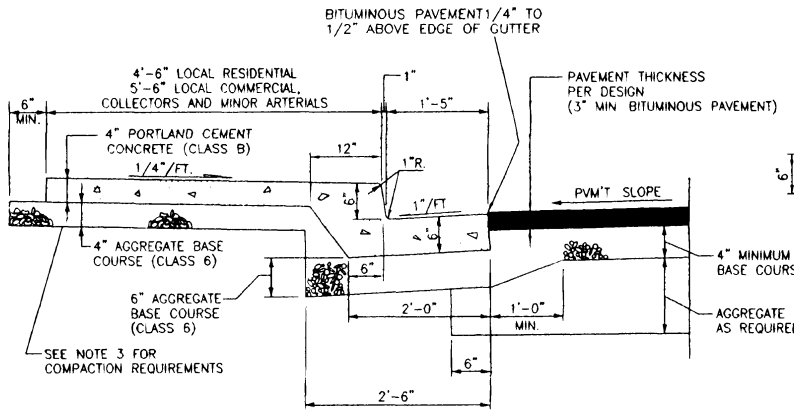
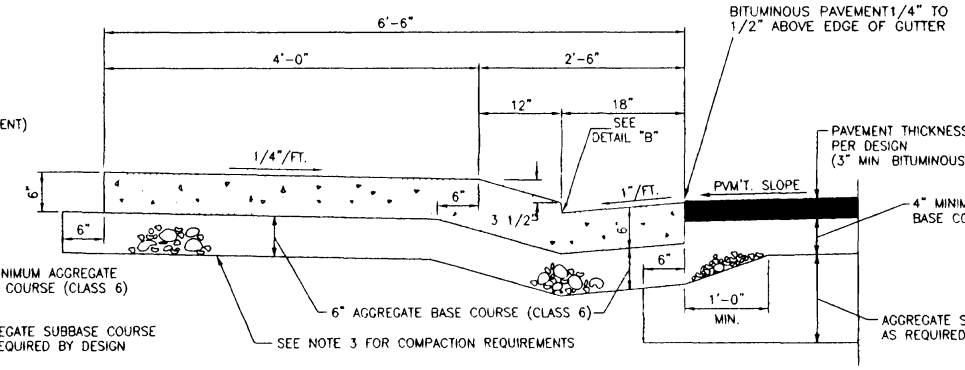


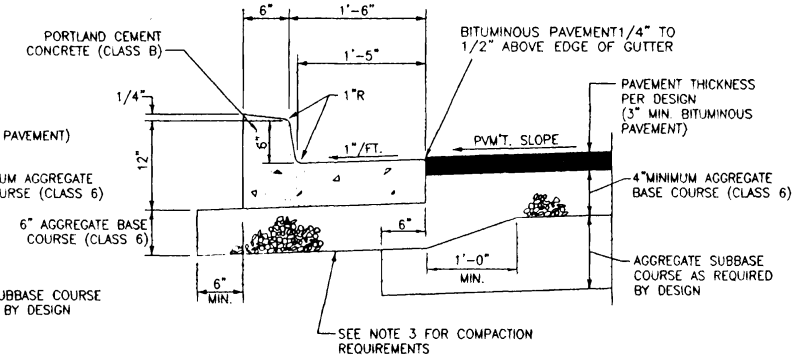
MONOLITHIC CURB, GUTTER & SIDEWALK

SECTION F–F



DRIVE OVER CURB, GUTTER & SIDEWALK

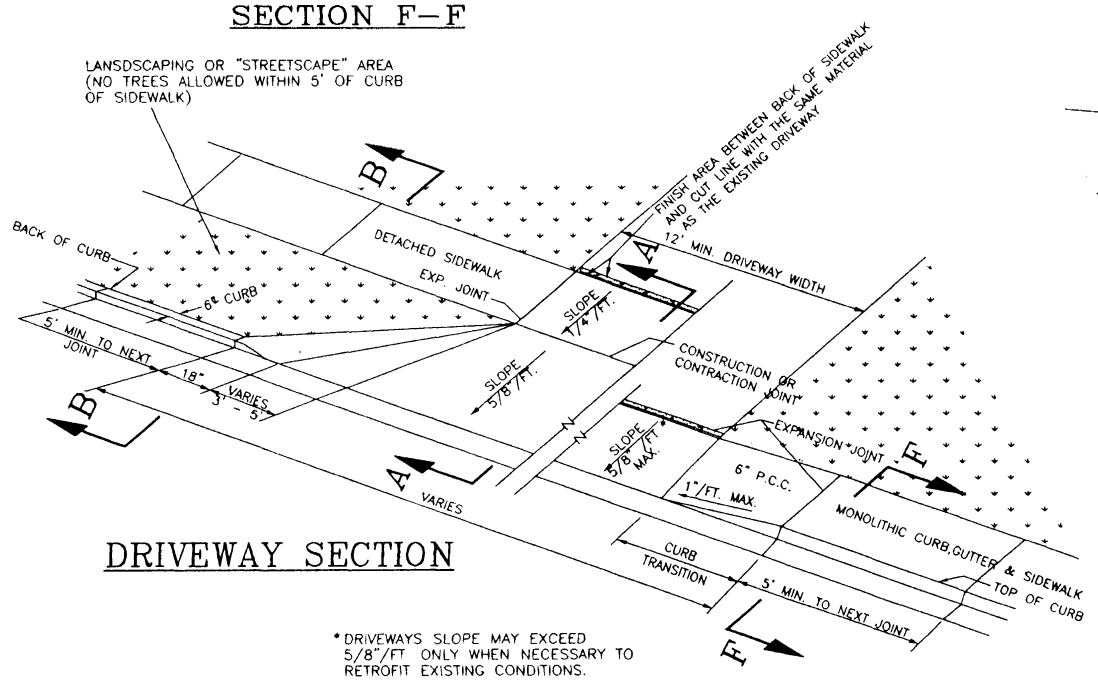
(RESIDENTIAL STREETS ONLY)



CURB & GUTTER

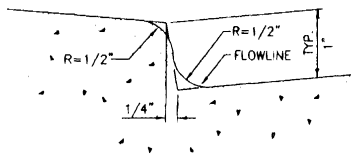
GENERAL NOTES

1. ALL PORTLAND CEMENT CONCRETE SHALL BE COLORADO DEPARTMENT OF TRANSPORTATION CLASS "B". ALL CONCRETE SHALL BE MIXED, PLACED, CURED AND TESTED IN ACCORDANCE WITH CITY OF GRAND JUNCTION STREET CONSTRUCTION SPECIFICATIONS.
2. ALL CONCRETE WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A LICENSED CITY CONTRACTOR. A CITY PERMIT IS REQUIRED AT EACH LOCATION WHERE CONCRETE IS REMOVED, ALTERED OR PLACED.
3. ALL CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, RAMPS, DRAINAGE PANS AND OTHER CONCRETE WORK SHALL BE UNDERLAID WITH AGGREGATE BASE COURSE (CLASS 6) COMPACTED TO AT LEAST 95% OF AASHTO T-180 MAXIMUM DENSITY. SEE DETAILS FOR BASE THICKNESS. THE TOP 6 INCHES OF SUBGRADE UNDER ALL CONCRETE SHALL BE COMPACTED TO AT LEAST 95% OF AASHTO T-99 MAXIMUM DENSITY. ALL SATURATED OR UNSTABLE SUBGRADE MATERIAL SHALL BE REMOVED AND REPLACED.
4. ALL EXISTING PAVEMENT NOT DESIGNATED FOR REMOVAL WHICH IS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN-KIND BY CONTRACTOR.
5. ALL DRIVEWAY CONCRETE (APRON AND SIDEWALK CROSSING) SHALL BE 6 INCHES THICK (MIN.) FOR RESIDENTIAL USES AND 8" THICK (MIN.) FOR ALL OTHER USES.
6. TRANSVERSE EXPANSION JOINTS SHALL BE PROVIDED IN ALL CURBS, GUTTERS, SIDEWALKS, DRAINAGE PANS, ETC., AT ENDS OF HORIZONTAL CURVES, AT EDGES OF DRIVEWAY SECTIONS AND AT MAXIMUM SPACING OF 200'. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 10' MAX. SPACING.
7. VEHICULAR TRAFFIC SHALL BE KEPT OFF NEW CONCRETE FOR A MINIMUM OF FIVE DAYS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
8. AN APPROVED CURING/SEALING COMPOUND SHALL BE APPLIED TO ALL EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.
9. ALL CONCRETE SHALL BE PROTECTED FROM FREEZING FOR 5 DAYS AFTER BEING PLACED. NO CONCRETE SHALL BE PLACED ON FROZEN GROUND.
10. UNDER NO CIRCUMSTANCES SHALL WATER BE ADDED TO CONCRETE SURFACES DURING FINISHING OPERATIONS.
11. HANDICAP RAMPS SHALL BE INSTALLED AT EACH CORNER OF ALL STREET INTERSECTIONS. SEE EXHIBIT "G" FOR DETAILS.



DRIVEWAY SECTION

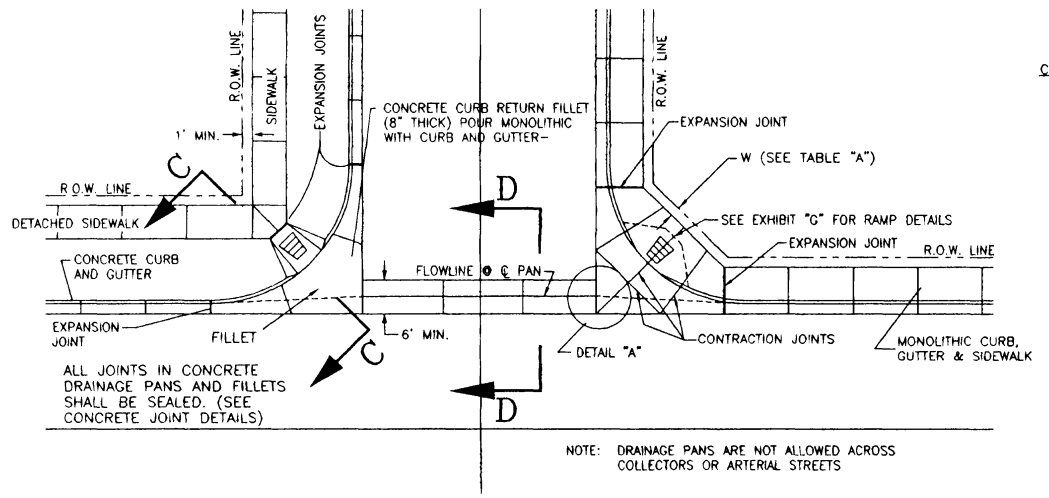
* DRIVEWAYS SLOPE MAY EXCEED 5/8"/FT ONLY WHEN NECESSARY TO RETROFIT EXISTING CONDITIONS.



DETAIL "B"

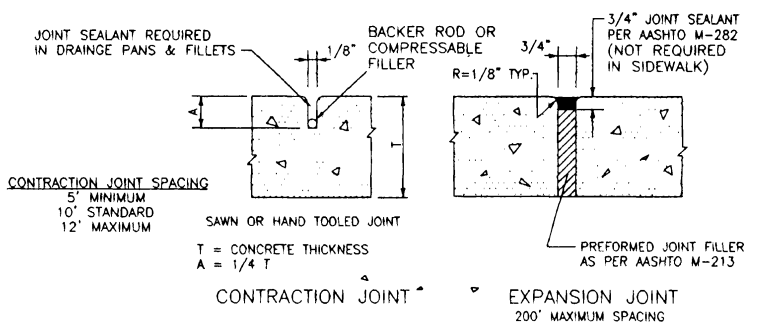
RADII AND RIGHT-OF-WAY WIDTH AT INTERSECTION CORNER		
INTERSECTING STREETS	RADIUS TO FLOWINE OF GUTTER	MIN. WIDTH (W) FROM BACK OF SIDEWALK TO RIGHT-OF-WAY LINE
ARTERIAL – ARTERIAL	35'	5'
ARTERIAL – ALL OTHER STREETS	30'	5'
COLLECTOR – COLLECTOR	30'	2'
COLLECTOR – RESIDENTIAL	25'	2'
COLLECTOR – INDUSTRIAL	30'	2'
RESIDENTIAL – RESIDENTIAL	20'	2'
INDUSTRIAL – INDUSTRIAL	30'	2'

NOTE: USE COLLECTOR STREET DIMENSIONS FOR COMMERCIAL STREETS.

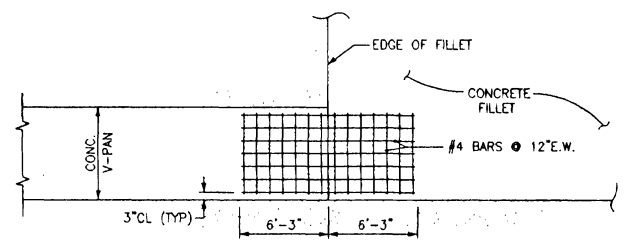


NOTE: DRAINAGE PANS ARE NOT ALLOWED ACROSS COLLECTORS OR ARTERIAL STREETS

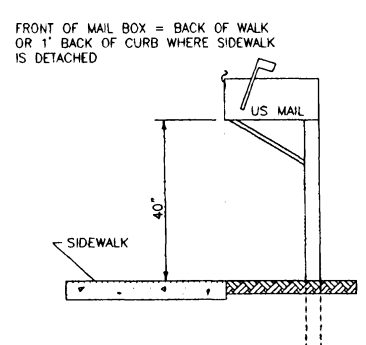
STREET INTERSECTION AND DRAINAGE PAN DETAILS



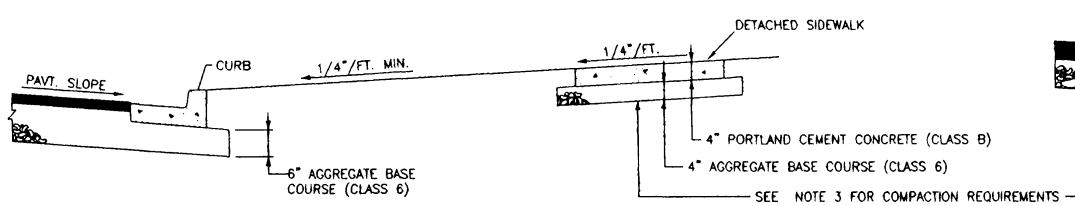
CONCRETE JOINT DETAILS



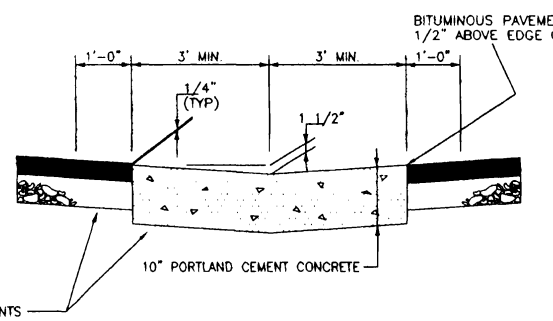
DETAIL "A"



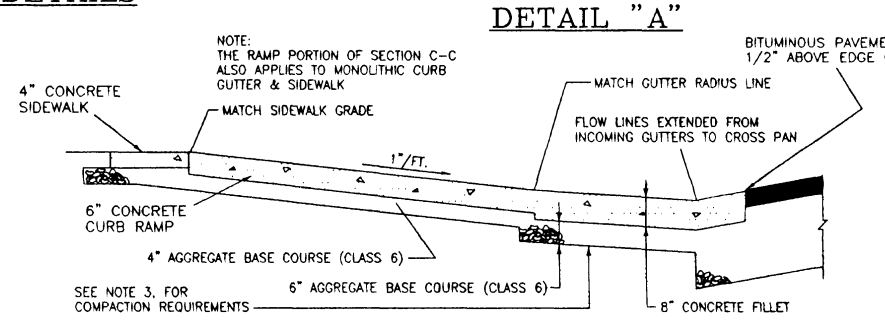
MAIL BOX INSTALLATION



SECTION B–B



SECTION D–D



SECTION C–C

SECTION A–A

NOTE: CONCRETE AND AGGREGATE THICKNESS SHOWN ALSO APPLY TO MONOLITHIC C.G & SW.

DESCRIPTION	DATE
ADOPTED BY CITY COUNCIL RESOLUTION	7/1/92
REVISION BY CITY COUNCIL RESOLUTION	6/15/94
REVISION	
REVISION	

DRAWN BY N.O.P. DATE 6/29/92
CHECKED BY T.A.B. DATE 6/29/92
APPROVED BY J.D.N. DATE 6/29/92
FIELD BOOK NO. PAGE

SCALE
PLAN HORIZ. N.T.S. VERT.
PROFILE HORIZ. VERT.

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION 244-1554
CITY OF GRAND JUNCTION, COLORADO

EXHIBIT "E"
STANDARD CONCRETE DETAILS

SHEET NO. 15 OF 18
FILE NO. EX-E-96.DWG

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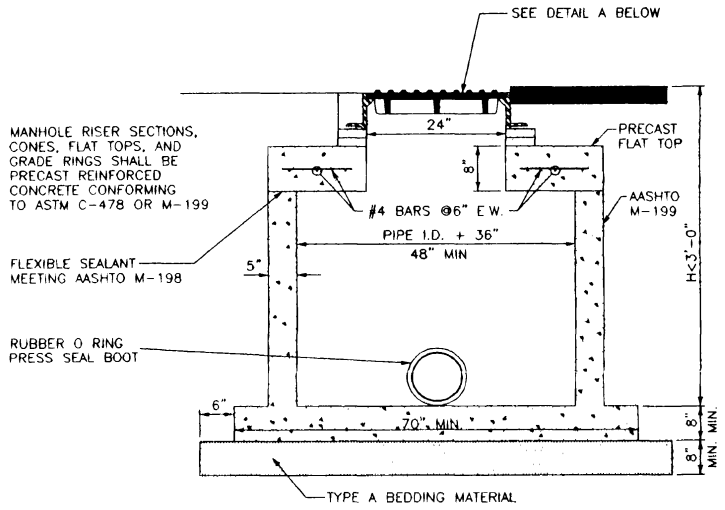
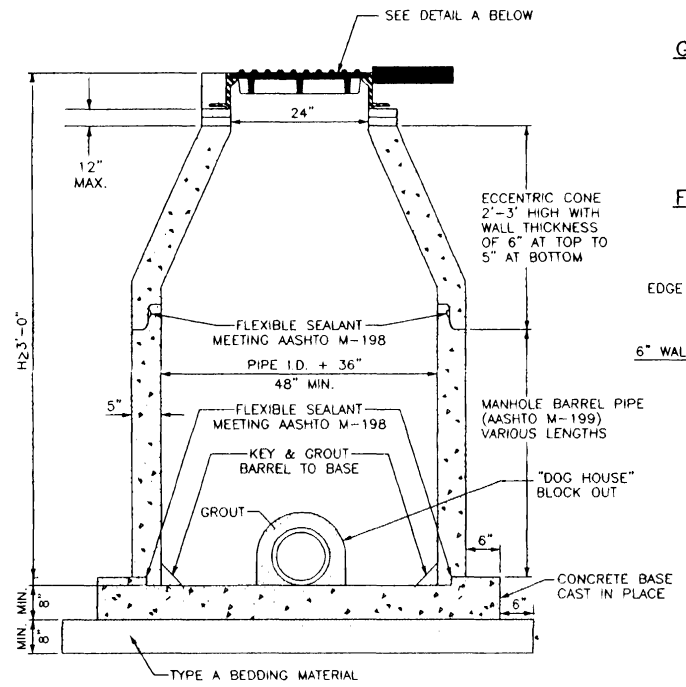
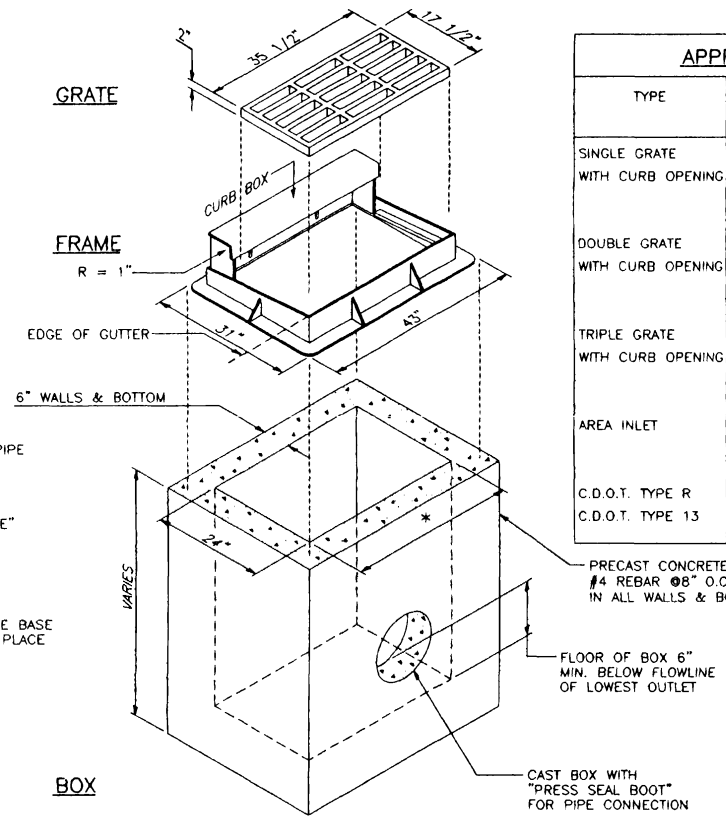


STANDARD SHALLOW MANHOLE PRECAST BASE ⚠



STANDARD MANHOLE CAST-IN-PLACE BASE ⚠



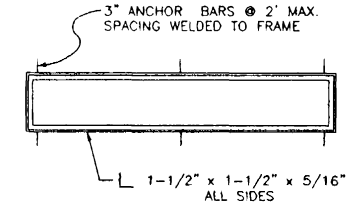
STORM DRAIN INLET WITH CURB OPENING ⚠

APPROVED STORM DRAIN INLETS

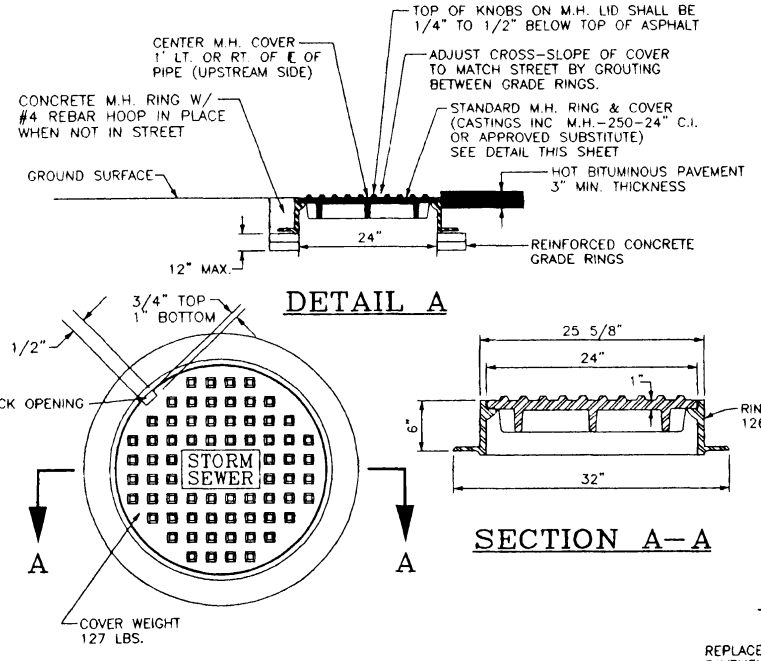
TYPE	FRAME	GRATE TYPE	BOX DIM. INSIDE
SINGLE GRATE WITH CURB OPENING	NEENAH R-3246 CASTINGS R-3246 DEETER 2045	C,DR,DL,L,V C,DR,DL,L,V C,DR,DL,L,V	24 X 36"
DOUBLE GRATE WITH CURB OPENING	NEENAH R-3296 - A CASTINGS R-3246,DOUBLE DEETER R-2045,DOUBLE	C,DR,DL,L,V C,DR,DL,L,V C,DR,DL,L,V	24" X 73"
TRIPLE GRATE WITH CURB OPENING	NEENAH R-3246-B CASTINGS R-3246,TRIPLE DEETER 2045,TRIPLE	C,DR,DL,L,V C,DR,DL,L,V C,DR,DL,L,V	24" X 110"
AREA INLET	CASTINGS CI-19 X 27 OR CASTINGS NO. 13	C C	20" X 30" 19 1/2"x35 1/2"
C.D.O.T. TYPE R	SEE STANDARD M-604-12		
C.D.O.T. TYPE 13	SEE STANDARD M-604-13		

GENERAL NOTES: ⚠

1. BACKFILL AROUND MANHOLES, INLET BOXES, AND OTHER STRUCTURES SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 95% AASHTO T-99.
2. ALL PORTLAND CEMENT CONCRETE SHALL BE COLORADO DIVISION OF HIGHWAYS CLASS "B". (SECTION 601.02).
3. ANY EXISTING PAVEMENT NOT DESIGNATED FOR REMOVAL WHICH IS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN-KIND BY CONTRACTOR.
4. ALL CONCRETE WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A LICENSED CURB, GUTTER AND SIDEWALK CONTRACTOR.
5. SEE PLAN SHEETS FOR ALL PIPE SIZES, GRADES AND ELEVATIONS
6. ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS AND CITY SPECIFICATIONS.
7. MANHOLE RING AND COVER CAN BE SET TO FINISH GRADE USING NON-SHRINK GROUT TO ADJUST RIM ELEVATION. GROUT SHALL NOT EXCEED 0.10 FT. THICKNESS. GROUT SHALL BE PLACED ONLY UNDER THE CAST IRON RING. NO GROUT SHALL BE PLACED BETWEEN CONCRETE GRADE RINGS. STEEL PAVING RINGS ARE NOT ALLOWED FOR GRADE ADJUSTMENT UNLESS OTHERWISE APPROVED BY THE ENGINEER.



FRAME FOR SIDEWALK DRAIN TROUGH



DETAIL A

SECTION A-A

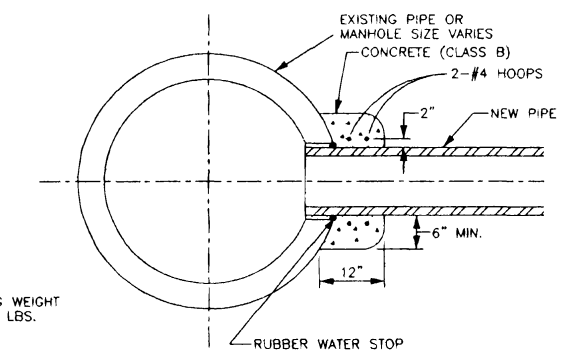
STANDARD CAST IRON MANHOLE RING & COVER ⚠

SIEVE SIZE	MAXIMUM PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES: PIPE BEDDING & HAUNCHING MATERIAL (TYPE A)	GRANULAR STABILIZATION MATERIAL (SCREENED OR CRUSHED ROCK TYPE B)	IMPORTED MATERIAL (TO BE USED WHERE SPECIFIED OR DIRECTED BY THE ENGINEER
12 INCH	---	---	100
2 INCH	---	100	---
1 INCH	100	---	---
NO 4	---	15 MAX	---
NO 200	20 MAX	---	3% - 20%

IMPORTED MATERIAL SHALL ALSO MEET HAZEN UNIFORMITY COEF. (C_U) > 6 AND COEFFICIENT OF CURVATURE (C_C) 1 TO 8 AND PLASTICITY INDEX (PI) MAXIMUM OF 7.

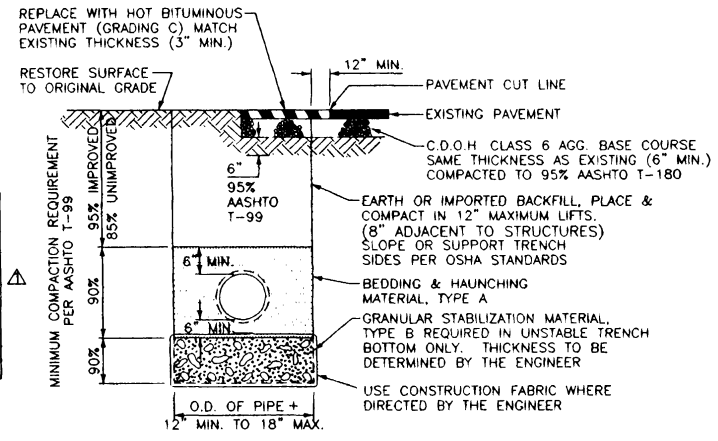
ALL BACKFILL MATERIAL SHALL BE PLACED FULL WIDTH IN 12" MAX. LIFTS (8" LIFTS ADJACENT TO STRUCTURES) AND COMPACTED TO THE MIN. RELATIVE DENSITIES SHOWN

NOTE: NATIVE MATERIAL MAY BE USED IN LIEU OF GRANULAR BEDDING & HAUNCHING MATERIAL IF APPROVED BY THE ENGINEER AND THE NATIVE MATERIAL IS IN COMPLIANCE WITH SIZE REQUIREMENTS FOR "TYPE A".

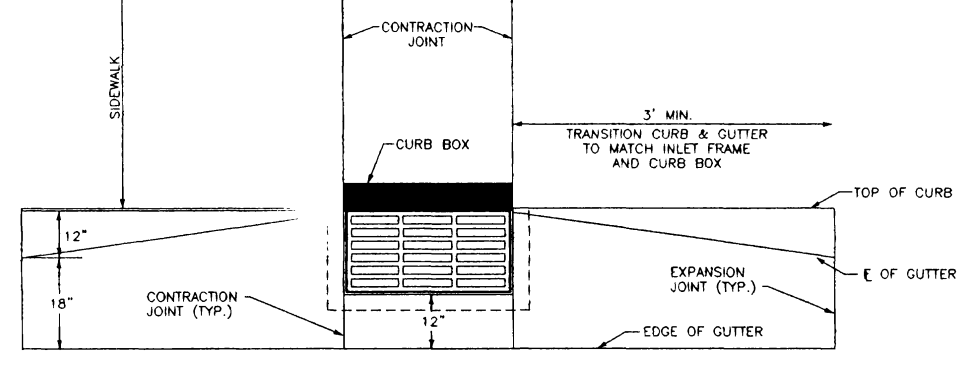


NOTE: IF THE HOLE IN THE EXISTING PIPE OR MANHOLE IS CORED, THE CONNECTION CAN BE MADE BY INSTALLING A FLEXIBLE PIPE TO MANHOLE CONNECTOR ("BOOT") AND THE CONCRETE ENCASEMENT ELIMINATED.

CONNECTION TO EXISTING PIPE, MANHOLE OR INLET BOX ⚠

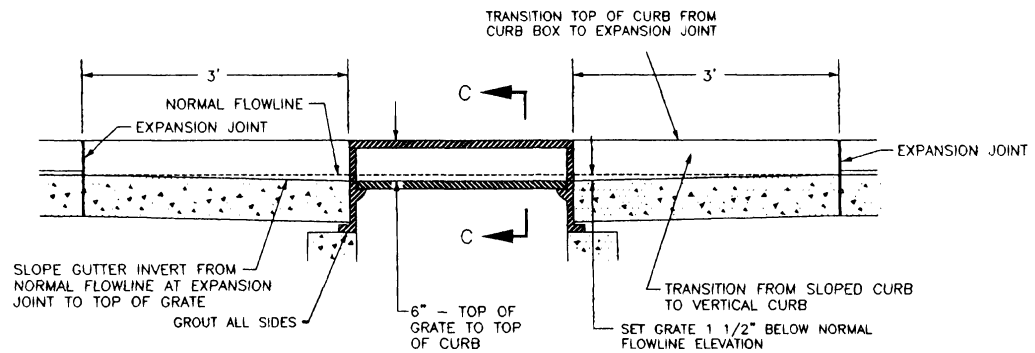


TYPICAL TRENCH DETAIL ⚠



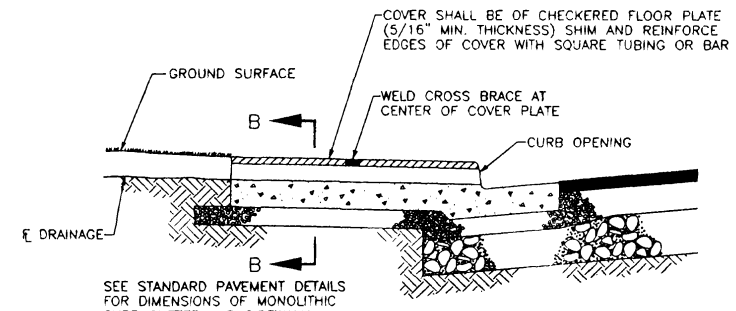
GUTTER INLET DETAIL ⚠

PLAN VIEW



CURB INLET INSTALLATION WITH ⚠ DRIVE OVER CURB, GUTTER AND SIDEWALK

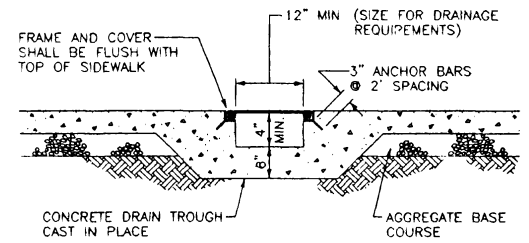
ELEVATION VIEW



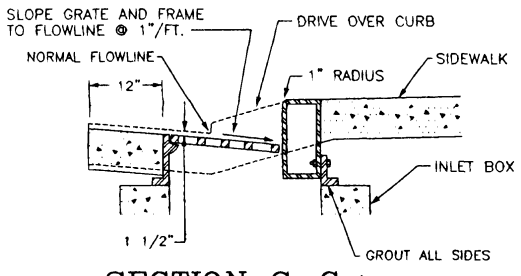
SEE STANDARD PAVEMENT DETAILS FOR DIMENSIONS OF MONOLITHIC CURB GUTTER AND SIDEWALK

NOTE: BOTH FRAME AND COVER SHALL BE FABRICATED OF STEEL ALL STEEL SURFACES SHALL BE GALVANIZED PER AASHTO M-111

DRAIN TROUGH FOR SIDEWALK CROSSING



SECTION B-B



SECTION C-C ⚠

DESCRIPTION	DATE
ADOPTED BY CITY COUNCIL RESOLUTION	7/1/92
REVISION BY CITY COUNCIL RESOLUTION	6/15/94
REVISION ⚠	JUNE 1996
REVISION	

DRAWN BY KADEL DATE 6/29/92
CHECKED BY T.A.B. DATE 6/29/92
APPROVED BY J.D.N. DATE 6/29/92
FIELD BOOK NO. PAGE

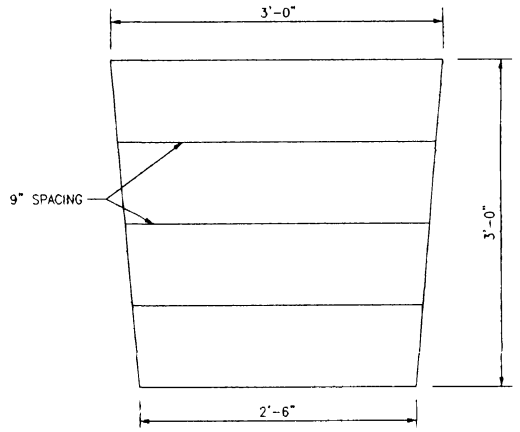
SCALE: PLAN HORIZ. N.T.S. VERT. / PROFILE HORIZ. VERT.

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION 244-1554
CITY OF GRAND JUNCTION, COLORADO

EXHIBIT "F"
STANDARD STORM DRAIN DETAILS

SHEET NO. 16 OF 18
FILE NO. EX-F-96.DWG

09103717.tif



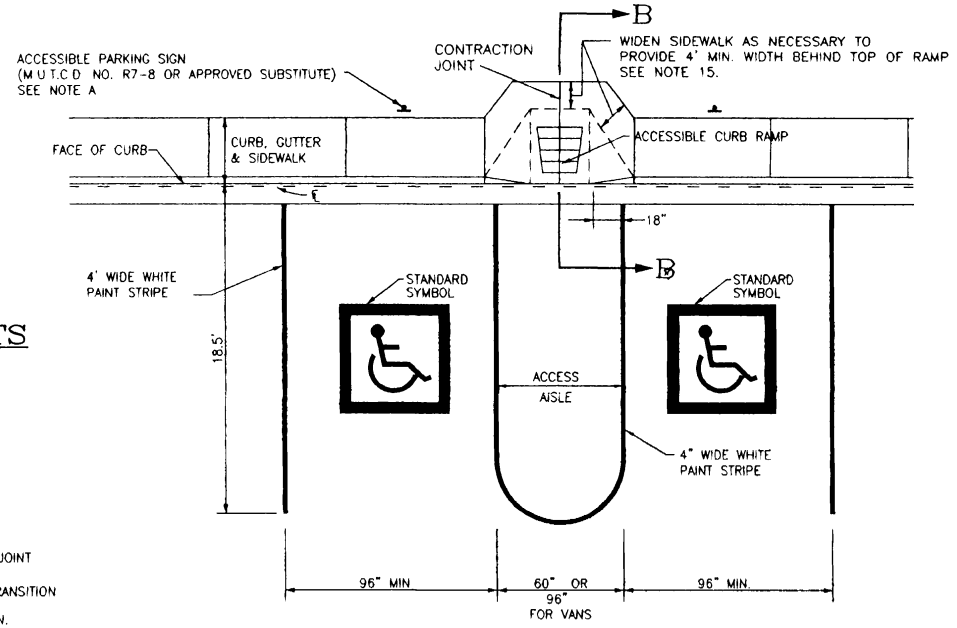
DETAIL FOR RAMP DETECTABLE WARNING

NOTE. GROOVES IN PATTERN ARE 1/4" MAX. DEPTH X 1/4" MAX. WIDTH

TOTAL PARKING IN LOT	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 PERCENT OF TOTAL
1001 AND OVER	20 PLUS 1 FOR EACH 100 OVER 1000

ACCESSIBLE PARKING REQUIREMENTS

PER ADA 4.1.2(5)(a)



NOTES:

A. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR THE DISABLED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY (SEE UFAS 4.30.5). SPACES COMPLYING WITH NOTE B SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY. SUCH SIGNS SHALL BE MOUNTED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

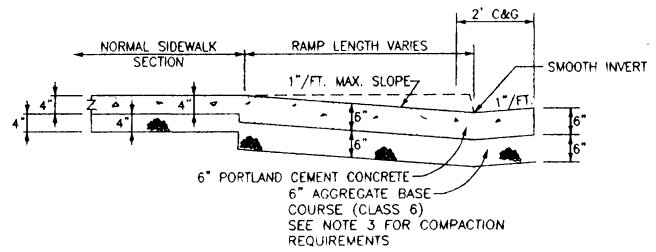
B. ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96" WIDE AND SHALL BE DESIGNATED "VAN ACCESSIBLE" AS SPECIFIED BY NOTE A.

C. PARKING ACCESS AISLES SHALL BE PART OF AN ACCESS ROUTE TO THE BUILDING OR FACILITY ENTRANCE. TWO ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

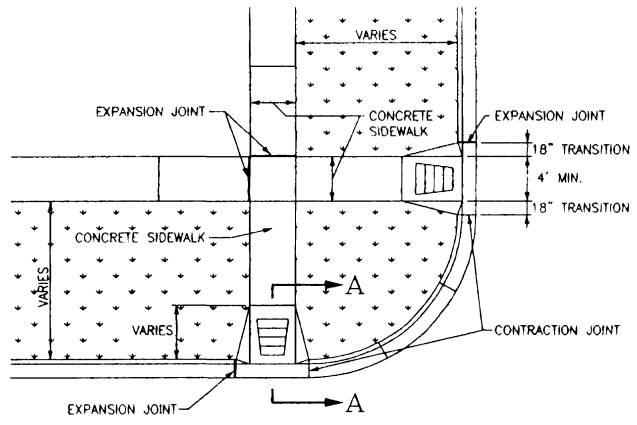
GENERAL NOTES ⚠

1. ALL PORTLAND CEMENT CONCRETE SHALL BE COLORADO DEPARTMENT OF TRANSPORTATION CLASS "B". ALL CONCRETE SHALL BE MIXED, PLACED, CURED AND TESTED IN ACCORDANCE WITH CITY OF GRAND JUNCTION STREET CONSTRUCTION SPECIFICATIONS.
2. ALL CONCRETE WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A LICENSED CURB, GUTTER & SIDEWALK CONTRACTOR. A PERMIT IS REQUIRED AT EACH SITE WHERE CONCRETE IS REMOVED, ALTERED OR PLACED.
3. ALL CONCRETE RAMPS, SIDEWALKS, CURBS, GUTTERS AND OTHER CONCRETE WORK SHALL BE UNDERLAID WITH AGGREGATE BASE COURSE (CLASS 6) COMPACTED TO AT LEAST 95% OF AASHTO T-180 MAXIMUM DENSITY. SEE DETAILS FOR BASE THICKNESS. THE TOP 6 INCHES OF SUBGRADE UNDER ALL CONCRETE SHALL BE COMPACTED TO AT LEAST 95% OF AASHTO T-99 MAXIMUM DENSITY. ALL SATURATED OR UNSUITABLE SUBGRADE MATERIAL SHALL BE REMOVED AND REPLACED.

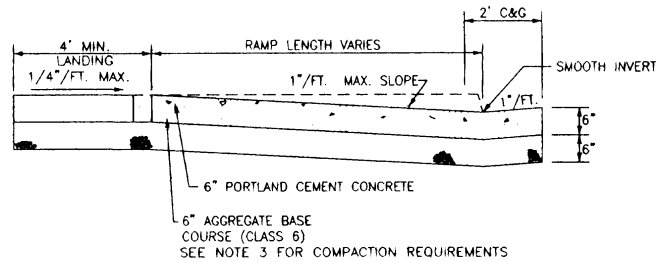
   ANY EXISTING PAVEMENT NOT DESIGNATED FOR REMOVAL WHICH IS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN-KIND BY CONTRACTOR.
5. DRAWING INDICATES TYPICAL SECTION ONLY. CONDITIONS AND/OR OBSTRUCTIONS MAY NECESSITATE VARIATIONS OR REPOSITIONING. ALL LOCATIONS SHALL BE APPROVED ON AN INDIVIDUAL BASIS BY THE ENGINEER OR HIS REPRESENTATIVE.
6. ACCESSIBLE CURB RAMPS AT INTERSECTIONS SHALL BE ALIGNED WITH STREET CROSSWALKS.
7. AN APPROVED CURING/SEALING COMPOUND SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACE IMMEDIATELY AFTER FINISHING.
8. ALL CONCRETE SHALL BE PROTECTED FROM FREEZING FOR 5 DAYS AFTER BEING PLACED. NO CONCRETE SHALL BE PLACED ON FROZEN GROUND.
9. MINIMUM SPACING BETWEEN JOINTS IN CURB, GUTTER & SIDEWALK IS 5 FEET.
10. WATER SHALL NOT BE ADDED TO CONCRETE SURFACES DURING FINISHING OPERATIONS.
11. THE MAXIMUM LONGITUDINAL SLOPE ALLOWED ON ANY CURB RAMP OR SIDEWALK SHALL BE 1"/FT. (8.33%).
12. THE SURFACE OF ALL ACCESSIBLE RAMPS AND FLARED SIDES SHALL BE FINISHED WITH A COURSE BROOMED TEXTURE PERPENDICULAR TO THE SLOPE OF THE RAMP.
13. ALL HANDICAP RAMPS, PARKING STALLS AND LANDINGS, SHALL CONFORM TO THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) LATEST EDITION.



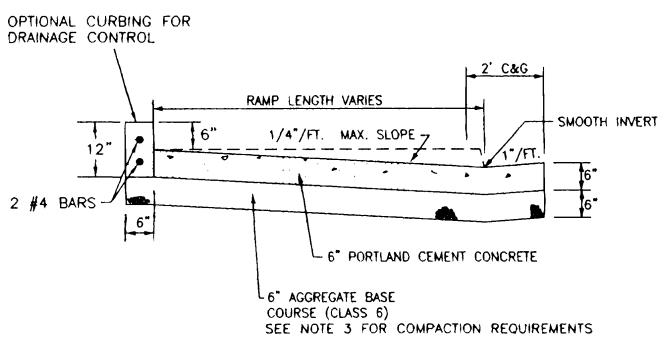
SECTION A-A ⚠



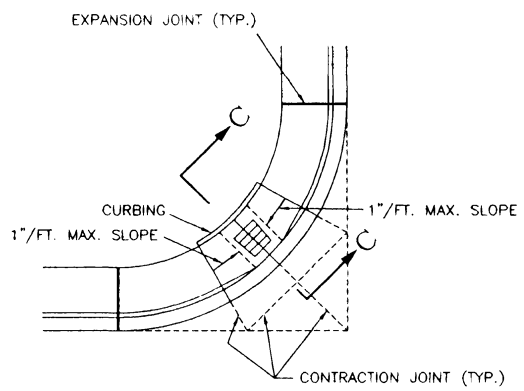
CURB RAMP(S) AT INTERSECTING SIDEWALK



SECTION B-B ⚠

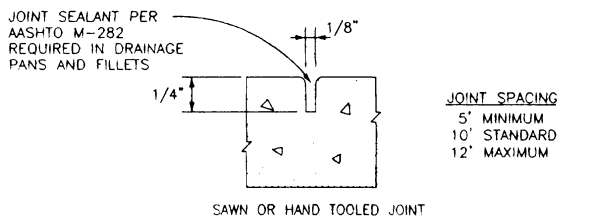


SECTION C-C ⚠

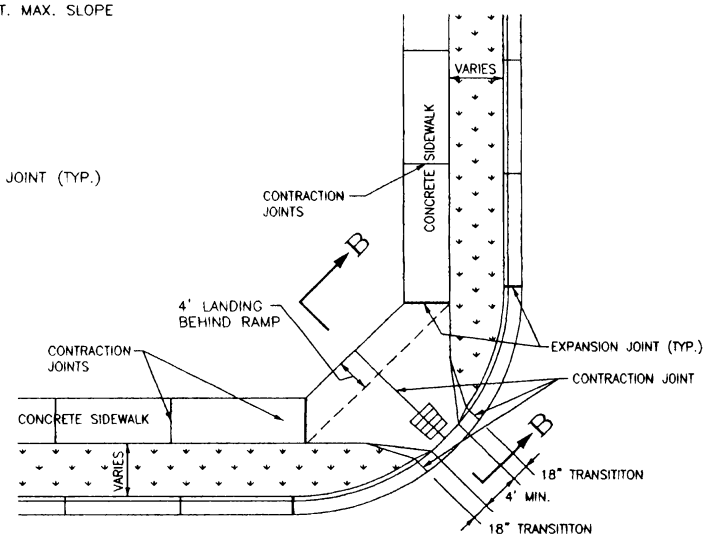


ALTERNATE RAMP ⚠

WITHOUT LANDING BEHIND RAMP
(FOR RETROFIT ON EXISTING STREETS ONLY)

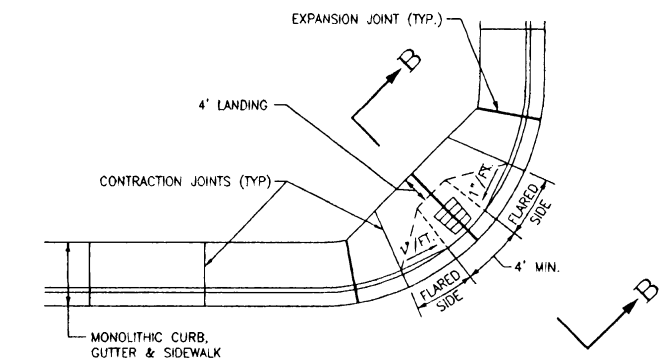


CONTRACTION JOINT DETAIL ⚠

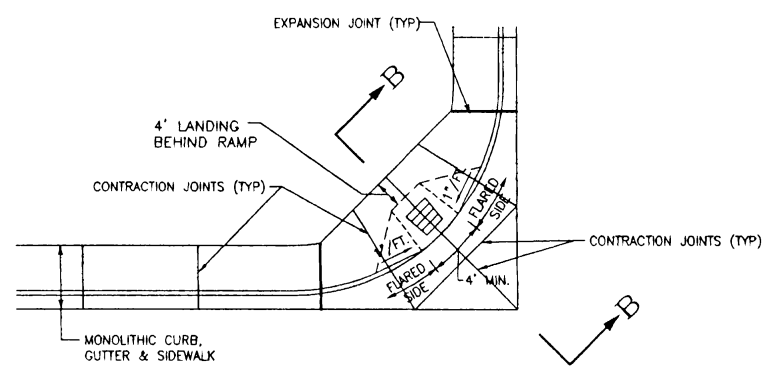


CURB RAMP WITH DETACHED SIDEWALKS ⚠

STANDARD ACCESSIBLE PARKING STALL DETAIL ⚠



RAMP IN MONOLITHIC CURB, GUTTER AND SIDEWALK ⚠



RAMP IN MONOLITHIC CURB, GUTTER AND SIDEWALK WITH CONCRETE FILLET ⚠

DESCRIPTION		DATE
ADOPTED BY CITY COUNCIL RESOLUTION	–	7/1/92
REVISION BY CITY COUNCIL RESOLUTION	–	6/15/94
REVISION ⚠	–	JUNE 1996
REVISION	–	

DRAWN BY N.O.P. DATE 6/29/92
CHECKED BY T.A.B. DATE 6/29/92
APPROVED BY J.D.N. DATE 6/29/92
FIELD BOOK NO. ____ PAGE ____

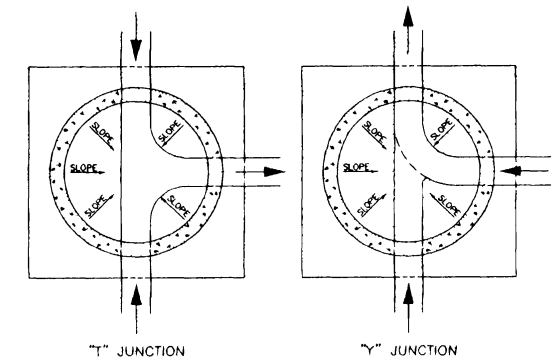
SCALE
PLAN HORIZ. N.T.S. VERT. ____
PROFILE HORIZ. ____ VERT. ____

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION 244-1554
CITY OF GRAND JUNCTION, COLORADO

EXHIBIT "G"
ACCESSIBLE RAMP AND PARKING STALL DETAILS

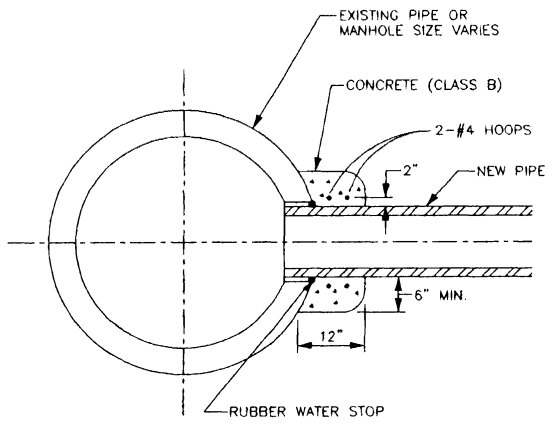
SHEET NO. 17
OF 18
FILE NO. EXG2234.DWG

09103718.tif



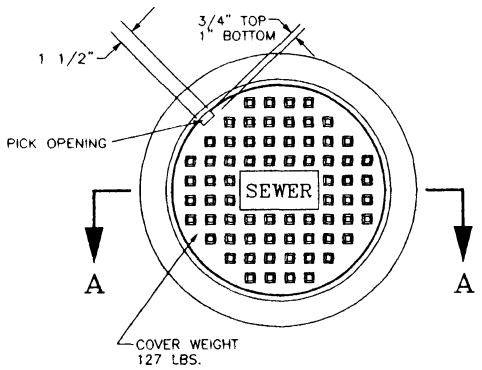
INVERTS SHALL BE FORMED TO PROVIDE A 24" MIN. APPROACH IN LINE WITH EACH PIPE FOR MAINTENANCE EQUIPMENT.

SECTION B–B

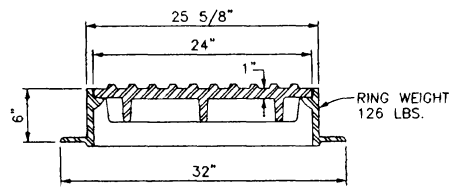


NOTE: IF THE HOLE IN THE EXISTING PIPE OR MANHOLE IS CORED, THE CONNECTION CAN BE MADE BY INSTALLING A FLEXIBLE PIPE TO MANHOLE CONNECTOR ("BOOT") AND THE CONCRETE ENCASEMENT ELIMINATED.

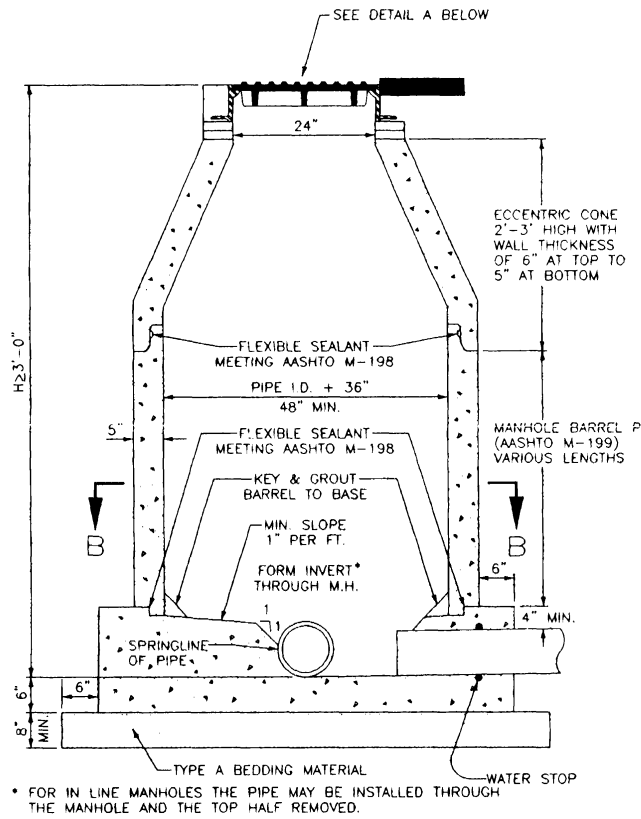
CONNECTION TO EXISTING MANHOLE OR INLET BOX



STANDARD CAST IRON ⚠ MANHOLE RING & COVER



SECTION A–A



MANHOLES MAY HAVE CAST-IN-PLACE OR PRECAST BASES

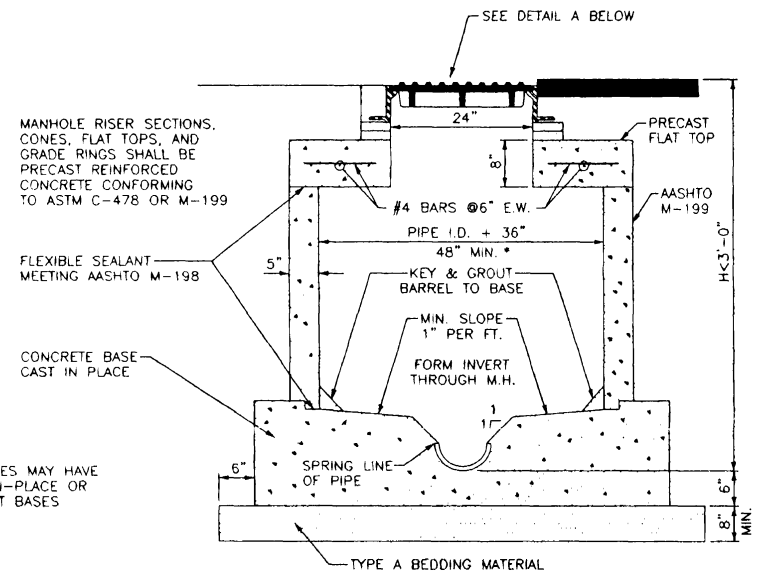
* FOR IN LINE MANHOLES THE PIPE MAY BE INSTALLED THROUGH THE MANHOLE AND THE TOP HALF REMOVED.

STANDARD MANHOLE CAST–IN–PLACE BASE ⚠

TYPICAL SERVICE "Y" CONNECTION ⚠

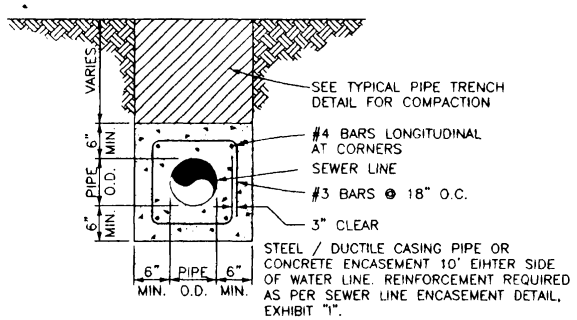
GENERAL NOTES: ⚠

1. CONCRETE SHALL BE COLORADO DEPARTMENT OF TRANSPORTATION CLASS "B" (SECTION 601.02)
2. ALL CEMENT USED IN MORTAR, CONCRETE BASES, GRADE RINGS, RISER SECTIONS, CONES, AND FLAT TOPS, FOR SANITARY SEWER MANHOLES, SHALL BE TYPE V OR MODIFIED TYPE II PORTLAND CEMENT WITH LESS THAN 5% TRICALCIUM ALUMINATE.
3. MANHOLE RISER SECTIONS, CONES, FLAT TOPS, AND GRADE RINGS SHALL BE PRECAST REINFORCED CONCRETE CONFORMING TO ASTM C-478 OR AASHTO M-199.
4. BACKFILL AROUND MANHOLES AND OTHER STRUCTURES SHALL BE PLACED IN 8" MAX. LIFTS AND COMPACTED TO 95% AASHTO T-99.
5. ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS AND CITY SPECIFICATION.
6. MANHOLE CONE AND FLAT TOP SECTIONS SHALL BE POSITIONED SUCH THAT THE MANHOLE RING AND COVER IS CENTERED ON THE UPSTREAM FLOW LINE.
7. IF THE MANHOLE SECTIONS ARE FURNISHED WITH STEPS THEY SHALL BE INSTALLED AT A 12" OFFSET FROM INLET PIPE.
8. MANHOLE RING AND COVER CAN BE SET TO FINISH GRADE USING NON-SHRINK GROUT TO ADJUST RIM ELEVATION. GROUT SHALL NOT EXCEED 0.10 FT. THICKNESS. GROUT SHALL BE PLACED BETWEEN CONCRETE GRADE RINGS. STEEL PAVING RINGS ARE NOT ALLOWED FOR GRADE ADJUSTMENT UNLESS OTHERWISE APPROVED BY THE ENGINEER.

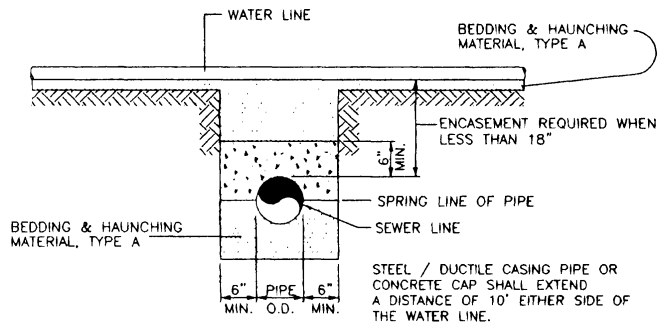


* FOR IN-LINE MANHOLES WITH A DEFLECTION ANGLE OF 30° OR LESS A 30" BARREL MAY BE USED.

STANDARD SHALLOW MANHOLE CAST–IN–PLACE BASE ⚠

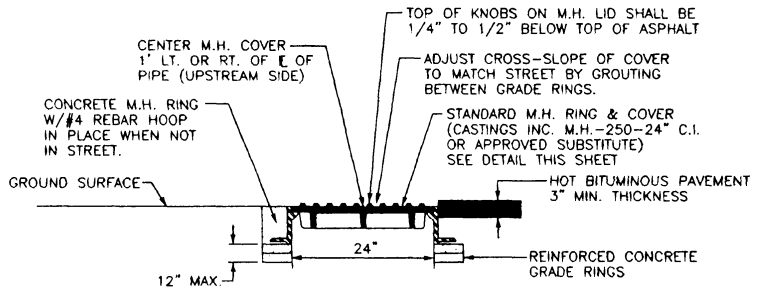


WATER LINE BELOW SEWER LINE

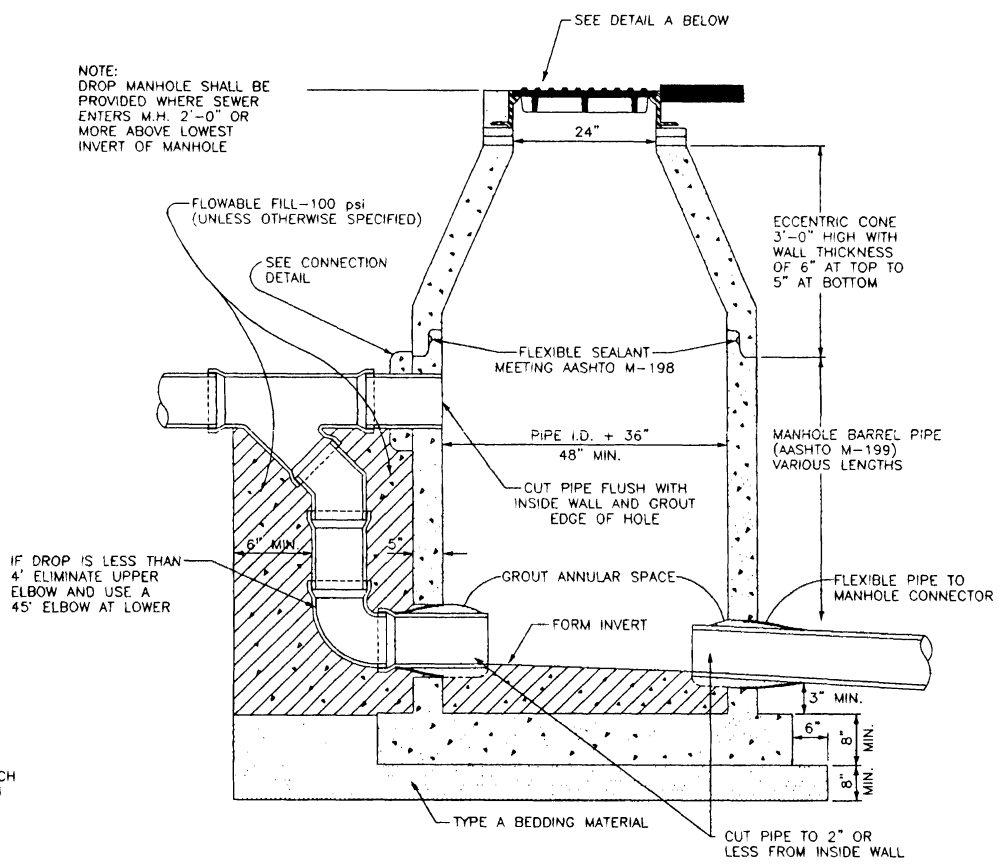


WATER LINE ABOVE SEWER LINE

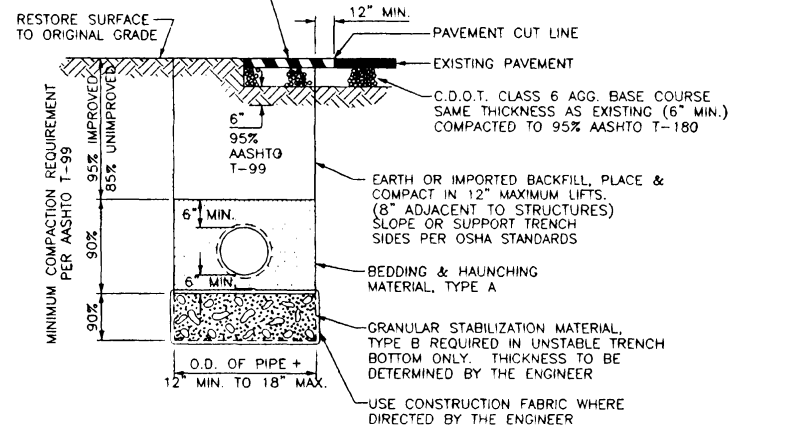
CONCRETE ENCASEMENT DETAILS



DETAIL A ⚠



DROP MANHOLE PRECAST BASE ⚠



TYPICAL TRENCH DETAIL ⚠

SIEVE SIZE	MAXIMUM PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES		
	PIPE BEDDING & HAUNCHING MATERIAL (TYPE A)	GRANULAR STABILIZATION MATERIAL (SCREENED OR CRUSHED ROCK TYPE B)	IMPORTED MATERIAL (TO BE USED WHERE SPECIFIED OR DIRECTED BY THE ENGINEER
12 INCH	---	---	100
2 INCH	---	100	---
1 INCH	100	---	---
NO 4	---	15 MAX	---
NO 200	20 MAX	---	3% - 20%

IMPORTED MATERIAL SHALL ALSO MEET HAZEN UNIFORMITY COEF. (C_U) > 6 AND COEFFICIENT OF CURVATURE (C_C) 1 TO 8 AND PLASTICITY INDEX (PI) MAXIMUM OF 7.

ALL BACKFILL MATERIAL SHALL BE PLACED FULL WIDTH IN 12" MAX. LIFTS (8" LIFTS ADJACENT TO STRUCTURES) AND COMPACTED TO THE MIN. RELATIVE DENSITIES SHOWN

NOTE: NATIVE MATERIAL MAY BE USED IN LIEU OF GRANULAR BEDDING & HAUNCHING MATERIAL IF APPROVED BY THE ENGINEER AND THE NATIVE MATERIAL IS IN COMPLIANCE WITH SIZE REQUIREMENTS FOR "TYPE A".

DESCRIPTION		DATE
ADOPTED BY CITY COUNCIL RESOLUTION	–	7/1/92
REVISION BY CITY COUNCIL RESOLUTION	–	6/15/94
REVISION ⚠	–	6/96
REVISION	–	

DRAWN BY N.O.P. DATE 6/27/92
CHECKED BY T.A.B. DATE 6/27/92
APPROVED BY B.C. DATE 6/27/92
FIELD BOOK NO. PAGE

SCALE
PLAN: HORIZ. N.T.S. VERT.
PROFILE: HORIZ. VERT.

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION 244–1554
CITY OF GRAND JUNCTION, COLORADO

EXHIBIT "I"
STANDARD SANITARY SEWER DETAILS

SHEET NO. 18 OF 18
FILE NO. EX-I-96.DWG

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ELECTRICAL LEGEND

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

POWER

- DUPLEX RECEPTACLE
- OUTLET WITH SPECIAL DEVICE, AS NOTED
- JUNCTION BOX
- BREAKER PANEL
- T TRANSFORMER

CIRCUITING

- CONDUIT RUN
- CIRCUIT HOMERUN TO PANEL OR CABINET, NO. OF ARROWS INDICATE NO. OF CIRCUITS
- CIRCUIT TURNED UP
- CIRCUIT TURNED DOWN
- CONDUIT STUB-OUT – CAP & MARK
- CIRCUIT IN FLEXIBLE CONDUIT
- SEALOFF

SCHEMATIC WIRING GRAPHICS

- M METER
- GROUND CONNECTION AS NOTED
- CIRCUIT BREAKER
- POWER TRANSFORMER

NOTATIONS

1 – PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR OR GRADE TO CENTERLINE OF OUTLET.

MKK CONSULTING ENGINEERS, INC.
Mechanical, Electrical & Energy Consultants

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Billings, Montana 59102
(406) 245-4497

THESE DRAWINGS ARE DIAGRAMMATIC – REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS. BRANCH CIRCUITING CONVENTION – #12 AWG PER PHASE AND NEUTRAL (WHERE REQUIRED) AND 20 AMPERE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED. PROVIDE QUANTITY AND SIZE SWITCH CONDUCTORS AS REQUIRED TO MAKE SYSTEM OPERATIONAL.

GENERAL NOTES (FOR ALL ELECTRICAL SHEETS)

1. SITE PLAN DOES NOT INDICATE ALL OF THE UG UTILITY LINES, RE: CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES OF ALL TRADES PRIOR TO ANY SITE WORK.
2. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
3. ALL 120V BRANCH CIRCUITS SHALL BE 3-WIRE (HOT,NEUTRAL,GROUND).

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

AFG	–	ABOVE FINISHED GRADE
AIC	–	AMPS INTERRUPTING CURRENT
CB	–	CIRCUIT BREAKER
GFI	–	GROUND FAULT INTERRUPTER
MCB	–	MAIN CIRCUIT BREAKER
MLO	–	MAIN LUGS ONLY
UG	–	UNDERGROUND
WP	–	WEATHERPROOF
XFMR	–	TRANSFORMER

ELECTRICAL SPECIFICATIONS

1. GENERAL AND SPECIAL CONDITIONS

A. SCOPE

(1) THESE SPECIFICATIONS APPLY TO THE ELECTRICAL WORK INCLUDING SERVICE ENTRANCE, DISTRIBUTION SYSTEM, CONVENIENCE OUTLET SYSTEM.

(2) PROVIDE LABOR AND MATERIAL REQUIRED FOR COMPLETE AND OPERATIONAL ELECTRICAL SYSTEMS.

B. SHOP DRAWINGS

(1) SUBMIT TO THE ENGINEER THREE COPIES OF CATALOG CUTS AND DIMENSIONAL DRAWINGS FOR MAIN DISTRIBUTION EQUIPMENT AND WIRING DEVICES.

(2) PRE-BID SUBSTITUTE EQUIPMENT WILL BE CONSIDERED ONLY IF SUFFICIENT DATA IS SUBMITTED TO DETERMINE EQUALITY IN FUNCTION AND APPEARANCE AT LEAST FIVE DAYS PRIOR TO BID.

(3) POST-BID SUBSTITUTE EQUIPMENT WILL BE CONSIDERED ONLY IF SUFFICIENT DATA IS SUBMITTED TO DETERMINE EQUALITY IN FUNCTION AND APPEARANCE AND IF THE SUBMITTAL IS ACCOMPANIED WITH A LETTER INDICATING THE AMOUNT OF DOLLAR REDUCTION IN CONTRACT THAT IS BEING OFFERED.

C. CODES AND PERMITS

(1) PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.

(2) OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS AND CERTIFICATES THAT MAY BE NECESSARY FOR COMPLETION OF THE WORK.

D. COORDINATION

(1) COORDINATE WORK WITH POWER COMPANY.

E. INSPECTION

(1) ALL WORK SHALL BE SUBJECT TO INSPECTION AT ANY TIME BY THE ARCHITECT, OWNER, OR ENGINEER.

(2) NOTIFY PROPER AUTHORITIES WHEN WORK IS READY FOR ANY INSPECTIONS REQUIRED.

F. AS-BUILT DRAWINGS

(1) AT THE COMPLETION OF THE WORK, FURNISH THE ENGINEER A SET OF DRAWINGS MARKED TO SHOW "AS-BUILT" CONDITIONS.

G. GUARANTEE

(1) GUARANTEE THAT ALL MATERIALS SHALL BE NEW AND FREE OF DEFECT AT THE TIME OF INSTALLATION. REPAIR OR REPLACE ANY DEFECTIVE MATERIAL OR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF WRITTEN ACCEPTANCE BY THE OWNER.

H. MAINTENANCE AND OPERATING PROCEDURES

(1) AT THE COMPLETION OF WORK, INSTRUCT THE OWNER ON THE CORRECT MAINTENANCE AND OPERATING PROCEDURES FOR THE ELECTRICAL SYSTEM.

I. PROTECTION

(1) ALL WORK, MATERIAL, AND EQUIPMENT SHALL BE PROTECTED FROM DAMAGE OR LOSS DUE TO THEFT, WEATHER, ETC., UNTIL FINAL WRITTEN ACCEPTANCE BY THE OWNER.

(2) POST DANGER SIGNS AND PHYSICAL BARRIERS TO PROTECT PEOPLE AGAINST HAZARDS CREATED BY THE WORK.

J. IDENTIFICATION

(1) PROVIDE AND INSTALL ENGRAVED LAMINATED BLACK AND WHITE PHENOLIC NAMEPLATE FOR PANELBOARD.

(2) NAMEPLATES SHALL BE FIRMLY SECURED WITH TWO SHEET METAL SCREWS.

K. TRENCHING AND BACKFILLING

(1) PERFORM ALL TRENCHING (EXCEPT THAT BEING PERFORMED BY PUBLIC SERVICES OF COLORADO) AND BACKFILLING REQUIRED FOR THE ELECTRICAL WORK.

(2) BACKFILLING SHALL BE SUPERVISED BY THE GENERAL CONTRACTOR, AND SHALL BE ACCOMPLISHED IN 6" LIFTS, EACH COMPACTED TO 95% OR BETTER.

L. EQUIPMENT INSTALLATION

(1) ALL EQUIPMENT SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED OTHERWISE.

(2) THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SUPPORTS, FOUNDATIONS, PADS, ETC., AS REQUIRED. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF OTHER APPLICABLE DIVISIONS OF THE SPECIFICATIONS.

2. BASIC MATERIALS AND EQUIPMENT

A. GENERAL

(1) ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE OF THE TYPE AND QUALITY SPECIFIED, NEW, AND, WHEN LISTED BY UNDERWRITERS LABORATORIES, SHALL MEET THEIR REQUIREMENTS AND BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE REGULARLY FURNISHED.

B. METER EQUIPMENT

(1) ENCLOSURES SHALL BE CONSTRUCTED OF FORMED AND WELDED CODE GAUGE STEEL.

(2) ALL COMPONENTS SHALL BE FACTORY ASSEMBLED AND ALL CURRENT-CARRYING PARTS SHALL BE PLATED BUS BARS.

(3) METER SOCKET SHALL BE COORDINATED WITH THE POWER COMPANY. SOCKETS SHALL BE RATED 200 AMPERE CONTINUOUS DUTY. METER SOCKET JAWS MUST BE SPRING REINFORCED AND FRONT REMOVABLE.

C. PANELBOARDS

(1) THE PANELBOARD BUS ASSEMBLY AND BREAKERS SHALL BE ENCLOSED IN A STEEL CABINET. A CIRCUIT DIRECTORY FRAME AND CARD WITH A CLEAR PLASTIC COVERING SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT.

(2) CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, THERMAL-MAGNETIC, AND HAVE COMMON TRIP ON ALL MULTI-POLE BREAKERS.

(3) BUS BAR CONNECTIONS TO THE BRANCH CIRCUIT BREAKERS SHALL BE THE "DISTRIBUTED PHASE" TYPE.

(4) EQUIPMENT RATINGS SHALL BE AS INDICATED ON THE INDIVIDUAL PANELBOARD SCHEDULES.

D. WIRING DEVICES

(1) CONVENIENCE OUTLETS SHALL BE 3 WIRE GROUNDING TYPE, 20 AMP @ 125 VOLTS, GFCI PROTECTED, SPECIFICATION GRADE, IVORY COLOR, WITH BRUSHED STAINLESS STEEL COVER PLATES. CATALOG NUMBERS ARE FOR LEVITON DEVICES. EQUALS BY HUBBELL, ARROW-HART, BRYANT, CIRCLE F, G.E., P&S, OR SIERRA WILL BE CONSIDERED IF SUBMITTED AS SHOP DRAWINGS.

a. DUPLEX OUTLET: 6898-HG-I

E. OUTLETS

(1) USE OUTLET BOXES OF SUFFICIENT SIZE AND SHAPE TO BEST SUIT THE PARTICULAR LOCATION AND TO CONTAIN ENCLOSED WIRE AND CONNECTIONS WITHOUT CROWDING. USE DEEP BOXES WITH CONDUITS 1" AND LARGER. PROVIDE EXTENSIONS AND COVERS WHERE REQUIRED. NO OUTLET BOXES SMALLER THAN 4" SHALL BE INSTALLED.

(2) RECEPTACLE OUTLETS SHALL BE STANDARD 4" BOXES WITH COVER PLATES. WHERE MORE THAN ONE DEVICE IS LOCATED AT ONE POINT, USE GANG BOXES AND GANG COVER PLATES.

(3) USE WEATHERPROOF RECEPTACLES MOUNTED IN WEATHERPROOF OUTLET BOXES IN LOCATIONS EXPOSED TO WEATHER. ALSO, USE RAINTIGHT WHILE-IN-USE COVERS, LEVITON MODEL 5977-DCL FOR SINGLE GANG AND 5997-DCL FOR DOUBLE GANG.

(4) INSURE A CONTINUOUS GROUND CONNECTION BETWEEN THE GROUNDING TERMINALS OF DUPLEX CONVENIENCE OUTLETS AND THE CONDUIT SYSTEM USING A PIGTAIL (STEEL CITY #GSW-2 OR EQUAL) DIRECTLY FROM THE GROUNDING SCREW ON THE RECEPTACLE TO A GROUND SCREW CONNECTION INSIDE THE OUTLET BOX. A SELF-GROUNDING CONTACT DEVICE APPROVED FOR THE PURPOSE SHALL BE ACCEPTABLE AS GROUND CONNECTION.

(5) OUTLET BOXES SHALL BE ONE-PIECE STEEL, GALVANIZED OR SHERADIZED AS MANUFACTURED BY STEEL CITY ELECTRIC, APPLETON ELECTRIC, OR RACO ALL-STEEL PRODUCTS.

F. RACEWAYS

(1) RACEWAYS SHALL BE RIGID STEEL. RACEWAYS SHALL BE GALVANIZED OR SHERADIZED, AND SHALL BE MANUFACTURED BY JONES & LAUGHLIN, ALLIED, OR TRIANGLE CONDUIT & CABLE.

G. RACEWAY FITTINGS

(1) CONDUIT SEALS SHALL BE OF THE SIZE AND TYPE REQUIRED AND SHALL BE MANUFACTURED BY CROUSE-HINDS.

(2) EXPANSION FITTINGS SHALL BE OF THE SIZE AND TYPE REQUIRED, WITH BONDING JUMPER, AND SHALL BE MANUFACTURED BY O-Z ELECTRIC.

(3) RIGID STEEL CONDUIT BUSHINGS SHALL BE NYLON INSULATED STEEL TYPE, AND SHALL BE T&B SERIES 1222.

(4) LOCKNUTS SHALL BE CASE HARDENED STEEL TYPE, AND SHALL BE T&B SERIES 141.

(5) FITTINGS AS MANUFACTURED BY O-Z ELECTRIC, APPLETON ELECTRIC, OR STEEL CITY ELECTRIC, OR EQUAL QUALITY MAY BE SUBSTITUTED FOR THOSE SPECIFIED.

H. RACEWAY INSTALLATION

(1) CONDUITS INSTALLED UNDERGROUND SHALL BE A MINIMUM OF 3/4" RIGID STEEL WITH A PVC CORROSION-RESISTANT JACKET. EXCEPT, AT THE CONTRACTOR'S OPTION, CONDUITS MAY BE RIGID SCHEDULE 40 PVC, PROVIDED A GROUND WIRE SIZED PER THE NEC IS INSTALLED AND BONDED TO THE GROUND SYSTEM, AND THE CONDUIT SIZE IS INCREASED AS REQUIRED TO ACCOMMODATE THE GROUND WIRE.

(2) CONDUIT EXPOSED TO MECHANICAL DAMAGE SHALL BE RIGID STEEL GALVANIZED.

(3) MAKE CONDUIT BENDS WITH STANDARD CONDUIT ELBOWS OR CONDUIT BENT TO NOT LESS THAN THE SAME RADIUS. ALL BENDS SHALL BE FREE FROM DENTS OR FLATTENING.

(4) ALL FITTINGS IN WET PLACES, LOCATIONS EXPOSED TO WEATHER, OR BURIED IN MASONRY, CONCRETE, OR FILL SHALL BE WATERTIGHT. CAP CONDUIT ENDS TO PREVENT ENTRANCE OF FOREIGN MATERIALS DURING CONSTRUCTION.

(5) EQUIP ALL EMPTY CONDUITS WITH GALVANIZED IRON PULL-WIRES OF ADEQUATE SIZE.

I. WIRE AND CABLE

(1) UNLESS INDICATED OTHERWISE, ALL CONDUCTORS SHALL BE HIGH-CONDUCTIVITY COPPER, #12 OR LARGER, WITH 600 VOLT INSULATION, SIZED AS INDICATED. ACCEPTABLE MANUFACTURERS SHALL BE G.E., ROME CABLE, ANACONDA WIRE & CABLE, TRIANGLE CONDUIT & CABLE, AND OKONITE.

(2) UNLESS OTHERWISE DESIGNATED, WIRE AND CABLE FOR VARIOUS APPLICATIONS SHALL BE AS FOLLOWS:

a. #12 THROUGH #6, IN SLABS OR WET LOCATIONS: TYPE THWN, 75 DEGREE C.

b. #4 AND LARGER: TYPE THW 75 DEGREE C.

c. WIRE #10 AND SMALLER: SOLID.

d. WIRE #8 AND LARGER: STRANDED.

J. POWER SERVICE ENTRANCE

(2) THIS PROJECT SHALL BE SERVED UNDERGROUND FROM A PAD MOUNTED TRANSFORMER SUPPLIED AND INSTALLED BY THE POWER COMPANY.

(3) THE POWER COMPANY SHALL PROVIDE THE TRANSFORMER, PRIMARY CONDUCTORS, AND PRIMARY AND SECONDARY TERMINATIONS. THE POWER COMPANY SHALL BILL THE OWNER DIRECTLY FOR THIS SERVICE.

(4) THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID SUPPLYING AND INSTALLATION OF CONDUIT AND WIRE FROM THE TRANSFORMER SECONDARY TO THE MAIN POWER DISTRIBUTION EQUIPMENT AND METER SOCKET.

(5) ALL EQUIPMENT SHALL BE U.L. LABELED FOR USE AS SERVICE ENTRANCE EQUIPMENT.

(6) WITHIN 10 DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL NOTIFY THE UTILITY IN WRITING OF THE DESIRED SERVICE DATE.

(7) EQUIPMENT RATINGS AND DISTRIBUTION SYSTEM CONFIGURATION SHALL BE AS INDICATED ON THE ONE-LINE DIAGRAM.

REVISIONS

No:	DATE
No:	DATE
No:	DATE
No:	DATE
No:	DATE

MKK CONSULTING ENGINEERS, INC.
Mechanical, Electrical, Energy & Technology
www.mkkeng.com
827 ROOD AVENUE GRAND JUNCTION, COLORADO 81501 (970) 245-3177 FAX (970) 245-4450

PROJECT: TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

TITLE: ELECTRICAL COVER SHEET AND SPECIFICATIONS

DATE:	03-12-01
SCALE:	NONE
APPROVED BY:	AFD
CHECKED BY:	AFD
DESIGNED BY:	RDF
DRAWN BY:	RDF

PROJECT NO. GE004081.00

SHEET NO. E-1
1 OF 2 SHEETS

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PANEL " P1 "

120/240 VOLT | 1 PHASE | 3 WIRE SERVICE
150 AMP: MAIN BREAKER 150A | LUGS ONLY | MOUNTING: SURFACE X
10,000 AIC: GROUND BUS X | NEUTRAL X | FLUSH

DESCRIPTION	L	R	T/S/O	M/A/E	A	B	L	R	T/S/O	M/A/E	DESCRIPTION
GFI PROTECTED		2880			2 1	2		600			GFI RECEPTACLES
RECEPTACLE		2880			30 3	4		900			GFI RECEPTACLES
GFI PROTECTED		2880			2 5	6		1200			GFI RECEPTACLES
RECEPTACLE		2880			30 7	8					SPARE
GFI PROTECTED		2880			2 9	10					SPARE
RECEPTACLE		2880			30 11	12					SPARE
GFI PROTECTED		2880			2 13	14					SPARE
RECEPTACLE		2880			30 15	16					SPARE
SPARE					17	18					SPARE
SPARE					19	20					SPARE
TOTAL		23040		M/A/E	LOADS IN VOLT-AMPERES			2700		M/A/E	TOTAL

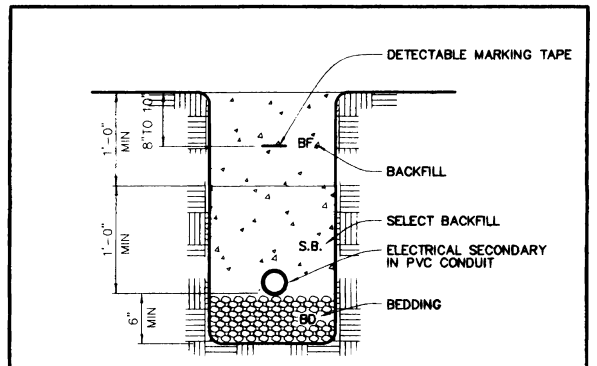
	CONNECTED	D.F.	DEMAND
LIGHTING		1.25	
RECEPT. (FIRST 10 KW)	10.0	1.00	10.0
RECEPT. (REMAINDER)	15.7	0.50	7.9
MOTORS		1.00	
LARGEST MOTOR		1.25	
APPLIANCES		1.00	
EQUIPMENT		1.00	
HEATING		1.00	
TRANSFORMER		1.00	
OTHER		1.00	
TOTAL	25.7 KVA		17.9 KVA
LOAD	107.3 AMPS		74.5 AMPS
DESIGN			150 AMPS
SPARE			75.5 AMPS

CONNECTED 25.7 KVA
DESIGN 36.0 KVA
DEMAND 17.9 KVA
SPARE 18.1 KVA
CONNECTED
L1 13.3 KVA
L2 12.4 KVA

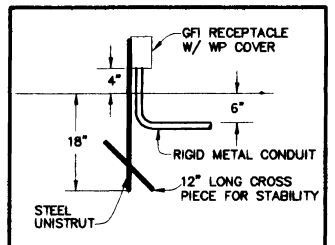
ALL CIRCUIT BREAKERS ARE 20 AMP, 1 POLE UNLESS NOTED OTHERWISE

L = LIGHTING R = RECEPTACLE M = MOTOR T = TRANSFORMER SP = SPACE
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER SPR = SPARE

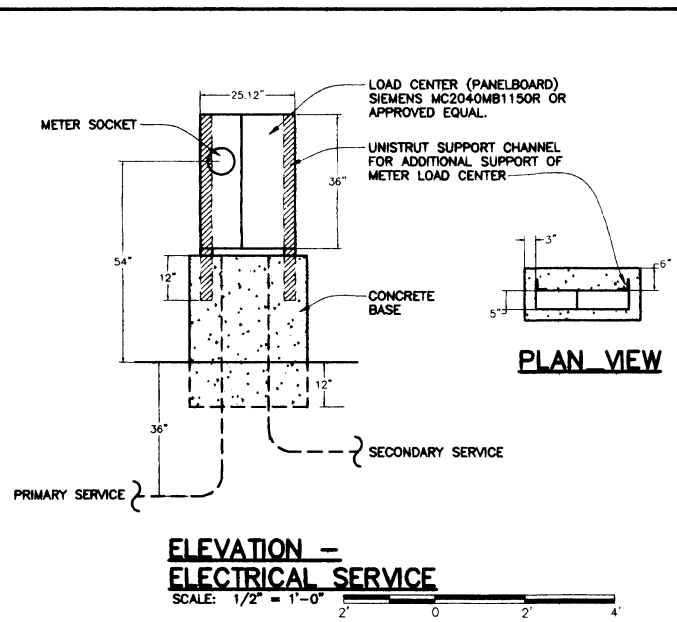
NOTES: PROVIDE FOUR 2P/30A GFCI BREAKERS AS INDICATED ON SCHEDULE



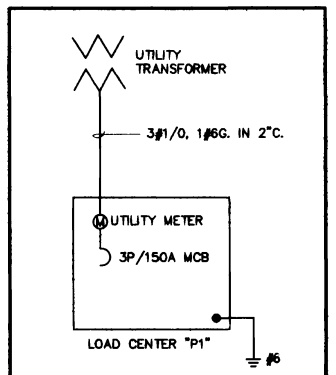
ELECTRICAL SECONDARY TRENCH DETAIL
NO SCALE



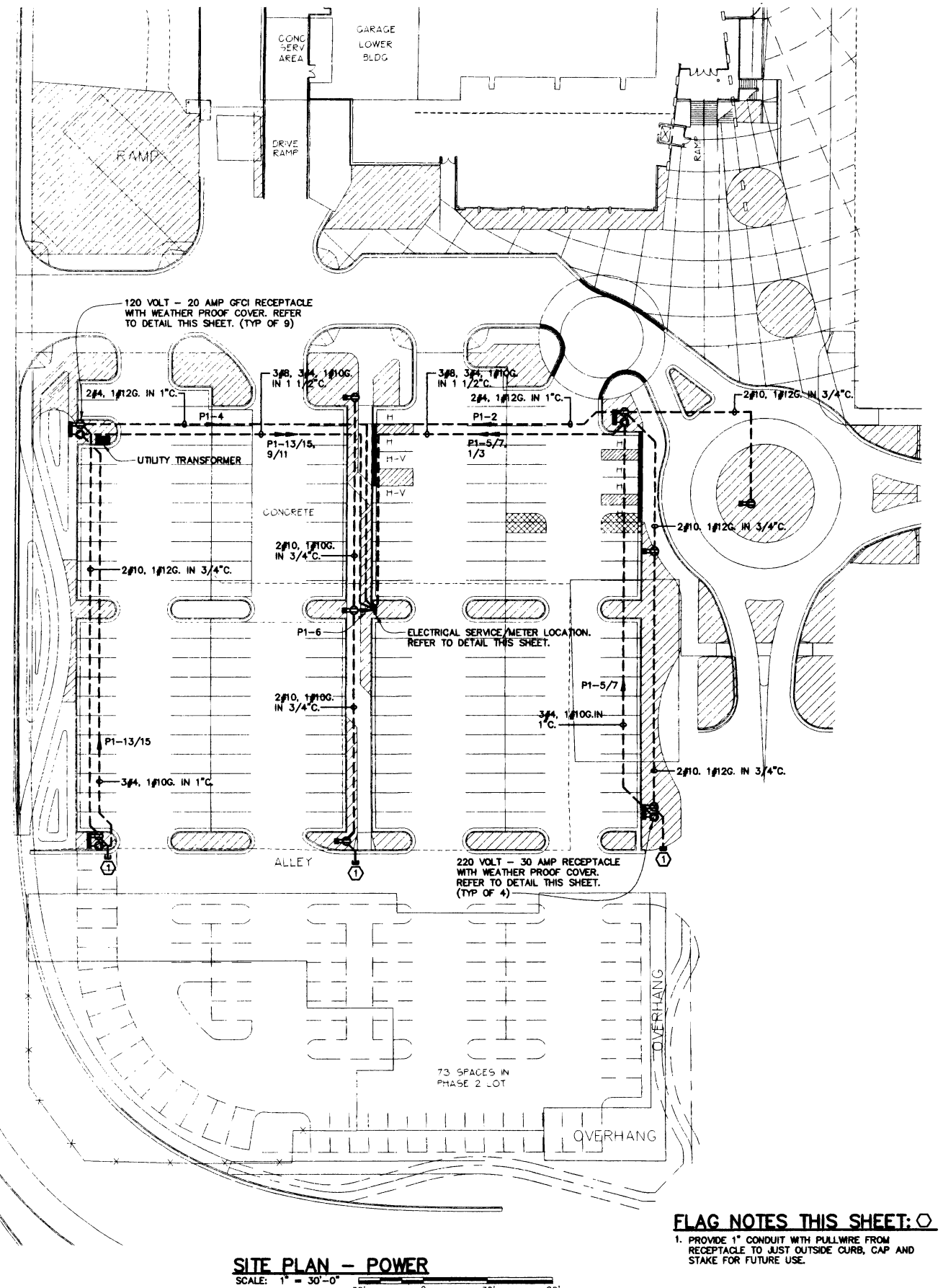
PLANTER RECEPTACLE MOUNTING DETAIL
NO SCALE



ELEVATION – ELECTRICAL SERVICE
SCALE: 1/2" = 1'-0"



ELECTRICAL ONE-LINE DIAGRAM
NO SCALE



SITE PLAN – POWER
SCALE: 1" = 30'-0"

FLAG NOTES THIS SHEET: ⬡
1. PROVIDE 1" CONDUIT WITH PULLWIRE FROM RECEPTACLE TO JUST OUTSIDE CURB, CAP AND STAKE FOR FUTURE USE.

GENERAL NOTES:
1. COORDINATE TRENCHING WITH PUBLIC SERVICES OF COLORADO. DRAWINGS HAVE BEEN SHOWN TO INDICATE THE SAME TRENCHING AS PUBLIC SERVICE FOR THEIR LIGHTING LAYOUT. ELECTRICAL CONTRACTOR SHALL USE SAME TRENCH AS PUBLIC SERVICE OF COLORADO TO SERVE POWER TO NEW RECEPTACLES WHENEVER POSSIBLE.

REVISIONS

No: –	DATE –
–	
–	
No:	DATE
No:	DATE
No:	DATE
No:	DATE

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PROJECT: TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

TITLE: SITE PLAN

DATE	03-12-01
SCALE	1" = 30'
APPROVED BY:	AFD
CHECKED BY:	AFD
DESIGNED BY:	RDF
DRAWN BY:	RDF

PROJECT NO. GE00408.00

SHEET NO. E-2
1 OF 2 SHEETS

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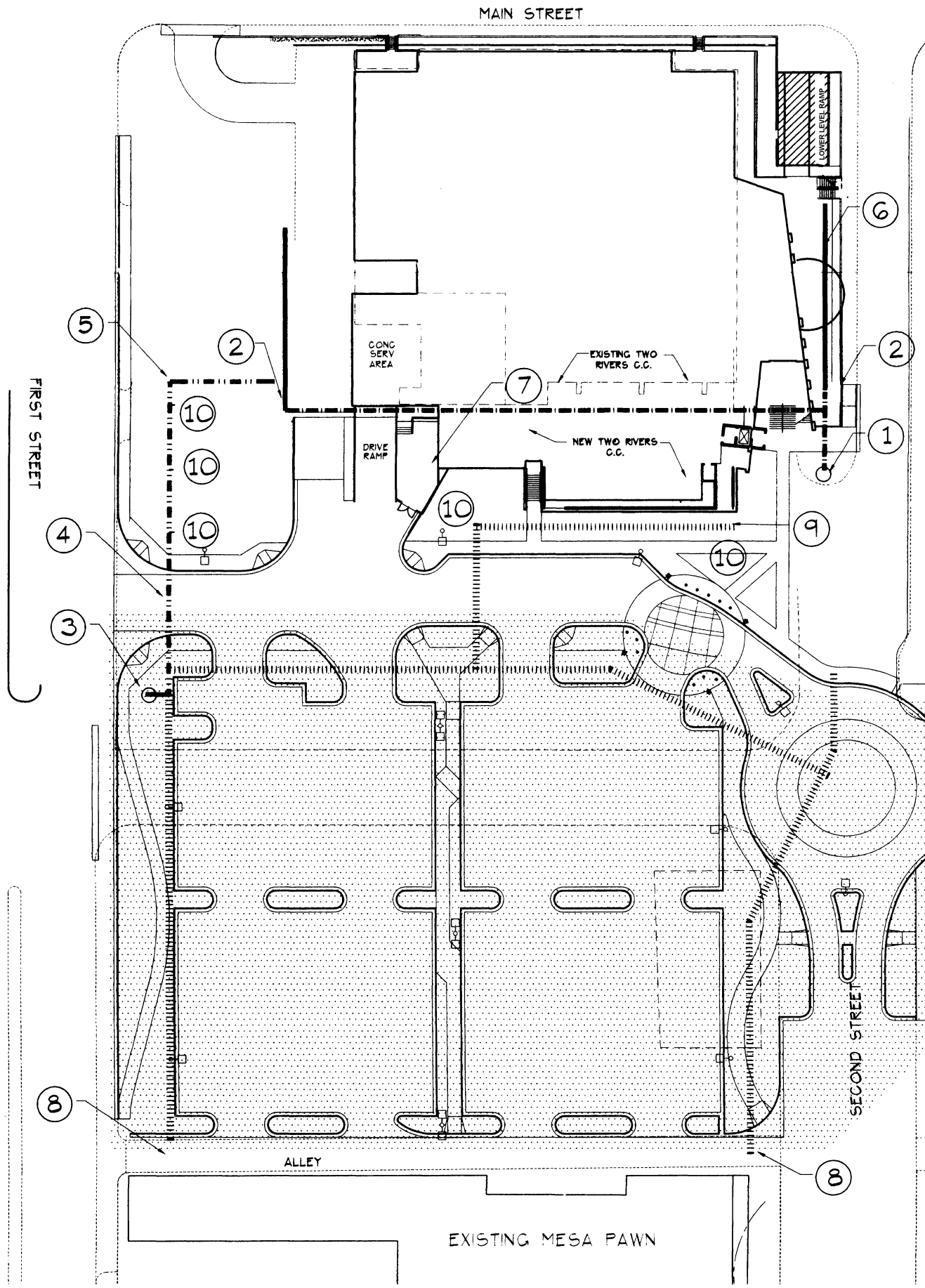

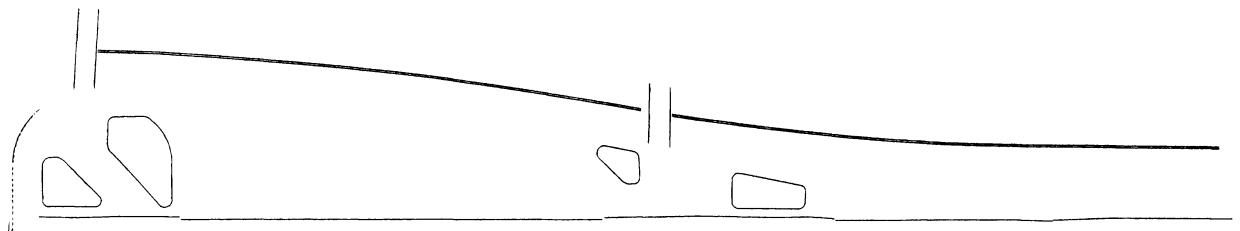

NOTES:
1. CONTRACTOR TO REMOVE EXISTING BACKFLOW PREVENTOR AND CAGE. RETURN WITH CAGE TO CITY OF GRAND JUNCTION. PERMANENTLY CAP BACKFLOW AND BLOWOUT RISERS AT 4' MIN. DEPTH.
2. CONTRACTOR TO CAP EXISTING IRRIGATION MAINLINE IN PARKING GARAGE AND IN SLOPED LANDSCAPE TO WEST OF RAMP. MAINLINE IN PARKING GARAGE TO REMAIN IN PLACE.
3. CITY OF GRAND JUNCTION TO PROVIDE AND INSTALL 1-1/2 INCH TAP, WATER METER VAULT, BLOWOUTS PER CODE, BACKFLOW PREVENTOR AND CAGE.
4. CONTRACTOR TO INSTALL 2 - 4" SLEEVES AND MAINLINE AT BEGINNING OF PROJECT DEMOLITION TO PROVIDE IRRIGATION WATER TO EXISTING LANDSCAPE FOR DURATION OF CONSTRUCTION.
5. CONTRACTOR TO INSTALL 8 ADDITIONAL VALVE ZONE WIRES AND ONE COMMON WIRE FROM NEW CONTROLLER TO THIS LOCATION. ALL 9 WIRES TO HAVE 75 FEET OF EXTRA LENGTH COILED AND PROTECTED. PLACE PULL BOX TO ALLOW CONNECTION BY CITY TO EXISTING LANDSCAPE.
6. CITY TO MANUALLY WATER LANDSCAPE AT PARKING GARAGE LEVEL DURING CONSTRUCTION.
7. CONTRACTOR TO INSTALL IRRIGATION CLOCK AT JUNCTION BOX. CONDUIT THROUGH RETAINING WALL INTO OPTIONS PACKAGE #3 LANDSCAPE AREA FOR VALVE WIRING FROM CLOCK TO SYSTEM (BASE BID)
8. CONTRACTOR TO DROP 3 ADDITIONAL VALVE WIRES PLUS COMMON WIRE AND PLACE PULL BOX TO ALLOW FUTURE EXPANSION OF IRRIGATION SYSTEM.
9. CONTRACTOR TO DROP 4 ADDITIONAL VALVE WIRES PLUS COMMON WIRE AND PLACE PULL BOX TO ALLOW FUTURE EXPANSION OF IRRIGATION SYSTEM.
10. CONTRACTOR TO DROP 10 ADDITIONAL VALVE WIRES PLUS COMMON WIRE AND PLACE PULL BOX TO ALLOW FUTURE EXPANSION OF IRRIGATION SYSTEM.

LEGEND:

- EXISTING IRRIGATION MAINLINE TO BE ABANDONED
- EXISTING IRRIGATION MAINLINE TO REMAIN
- PROPOSED MAINLINE TO BE INSTALLED AT INITIAL DEMOLITION.
- PROPOSED MAINLINE - BASE BID

SCALE: 1" = 30'

North

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY MH
CHECKED BY TC
JOB NO. 0001
DATE 3-13-01
REVISIONS

DRAWING NO.
0001-03-13-01-1

SHEET NO. L1

STATUS
- DRAFT
- PRELIMINARY
- BID
- CONSTRUCTION
- AS BUILT

CIAVONNE & ASSOCS., INC.
LANDSCAPE AND PLANNING ARCHITECTS
844 GRAND AVE.
GRAND JCT, CO 81501
PH: 970-241-0745
FAX: 970-241-0765
EMAIL: ciavonne@gj.net

LANDSCAPE AND IRRIGATION OVERVIEW

09103722.tif

TWO RIVERS C.C. IRRIGATION VALVE SCHEDULE

VALVE #	SIZE	TYPE	GPM	PRECIP RATE	RUN TIME	PGM	IN/START	STARTS /DAY	WATER DAYS	IN/WEEK * 80% EFFEC.
#1	1-1/2"	WEST P-LOT DRIP	12.1	2 gal/emit/hr	56 min	B	1.9 gal	2	2	6.0 gal
#2	1-1/2"	NORTH 1ST ST. SPRAY	15	1.74 in/hr	7 min	A	0.20 in	2	G	1.95 in
#3	1-1/2"	NORTH CENTER 1ST ST SPRAY	14	1.74 in/hr	7 min	A	0.20 in	2	G	1.95 in
#4	1-1/2"	SOUTH CENTER 1ST ST SPRAY	14	1.74 in/hr	7 min	A	0.20 in	2	G	1.95 in
#5	1-1/2"	SOUTH 1ST ST SPRAY	20	1.74 in/hr	7 min	A	0.20 in	2	G	1.95 in
#6	1-1/2"	SOUTH EAST P-LOT DRIP	6.8	2 gal/emit/hr	56 min	B	1.9 gal	2	2	6.0 gal
#7	1-1/2"	SOUTH 2ND ST. SPRAY	17	1.74 in/hr	7 min	A	0.20 in	2	G	1.95 in
#8	1-1/2"	NORTH 2ND ST SPRAY	16	1.74 in/hr	7 min	A	0.20 in	2	G	1.95 in
#9	1-1/2"	ROUNDABOUT DRIP	13.7	2 gal/emit/hr	56 min	B	1.9 gal	2	2	6.0 gal
#10	1-1/2"	NORTH EAST P-LOT DRIP	6.1	2 gal/emit/hr	56 min	B	1.9 gal	2	2	6.0 gal
#11	1-1/2"	CENTER SPRAY	14	1.74 in/hr	7 min	A	0.20 in	2	G	1.95 in

	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT
WATER BUDGET SETTINGS	90%	100%	130%	160%	120%	90%	70%

IRRIGATION LEGEND

- RAINBIRD 1804 SERIES SPRAY HEAD WITH NOZZLE AS SHOWN
- CLASS 160 PVC LATERAL PIPE 1 IN. UNLESS OTHERWISE NOTED
- CLASS 160 PVC LATERAL FOR DRIP ZONES 1 IN. UNLESS OTHERWISE NOTED
- CLASS 200 PVC MAINLINE 2 IN. UNLESS OTHERWISE NOTED
- INITIAL MAINLINE CONSTRUCTION (2 IN.)
- IRRIGATION SLEEVING, 4" UNLESS OTHERWISE NOTED.
- ISOLATION VALVE
- MANUAL DRAIN VALVE
- RAINBIRD PEB ZONE VALVE. SIZE SHOWN IN VALVE SCHEDULE
- RAINBIRD QUICK COUPLER
- COMPRESSION 'T' FITTING
- DRIP ZONE FLUSH BOX
- RAINBIRD ESP-MC 40 WALL MOUNT IRRIGATION CLOCK IN EXTERIOR CABINET
- RAINBIRD T-BIRD T-40 SERIES ROTOR SPRINKLER PART CIRCLE, NOZZLE SIZE SHOWN (OPTIONS #3 PACKAGE)
- RAINBIRD T-BIRD T-30 SERIES ROTOR SPRINKLER FULL CIRCLE, WITH NOZZLE SHOWN (OPTIONS #3 PACKAGE)
- LIGHT FIXTURES - SEE CIVIL/ELECTRICAL DRAWINGS
- BOLLARDS - SEE CIVIL DRAWINGS
- TRANSFORMER (SEE ELECTRICAL DRAWINGS)

0 20 30 40

North

EXISTING LANDSCAPE
SEE SHEET L1 FOR INFORMATION CONCERNING THIS MAINLINE AND WIRE DROPS
ASPHALT
CONNECT NEW MAINLINE TO OLD MAINLINE
DROP ONE VALVE WIRE AND COMMON
DROP ONE VALVE WIRE AND COMMON
DROP ONE VALVE WIRE AND COMMON
EXTERIOR JUNCTION BOX BY BUILDING CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE AND INSTALL CONTROLLER. NOTE: IN ADDITION TO THE 11 VALVES SHOWN ON THIS SHEET 18 ADDITIONAL VALVE ZONE WIRES AND ASSOCIATED COMMON WIRING ORIGINATE FROM THIS CONTROLLER LOCATION AND ARE TERMINATED THROUGHOUT THE SITE AS PART OF BASE BID.
DROP ONE VALVE WIRE AND COMMON
3 - 4" SLEEVES
DROP FIVE VALVE WIRES (1 AT TEE AND 4 FUTURE) AND COMMON
INSTALL 2 - 4" SLEEVES AND MAINLINE AT BEGINNING OF PROJECT DEMOLITION TO PROVIDE WATER TO EXISTING LANDSCAPE (SEE SHEET L1)
WATER METER CONTRACTOR TO CONNECT TO BACKFLOW PREVENTOR (PIT, METER AND BACKFLOW BY CITY OF GRAND JUNCTION) ADJUST LID TO GRADE FOLLOWING BERMING
PRV
TRANSFORMER
INSTALL 2 - 4" SLEEVES
INSTALL 2 - 4" SLEEVES
STUB FOR FUTURE MAINLINE EXTENSION, CAP END
COLORADO AVENUE
INSTALL 2 - 4" SLEEVES
EXISTING POWER POLE AND GUY WIRE
FIRST STREET
VENDOR METER AND SERVICE
SECOND STREET
DROP 3 ZONE VALVE WIRES AND ONE COMMON
STUB FOR FUTURE MAINLINE EXTENSION, CAP END
EXISTING ALLEY
STUB FOR FUTURE MAINLINE EXTENSION, CAP END
DROP 3 ZONE VALVE WIRES AND ONE COMMON WIRE

IRRIGATION NOTES:
1. ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
2. CITY OF GRAND JUNCTION TO INSTALL WATER METER. METER PIT, BACKFLOW PREVENTOR AND ASSOCIATED HARDWARE TO CODE.
3. CONTRACTOR IS TO CONNECT TO BACKFLOW PREVENTOR AND PROVIDE INITIAL MAINLINE AND SLEEVING AT BEGINNING OF PROJECT DEMOLITION TO PROVIDE IRRIGATION WATER TO EXISTING LANDSCAPE AT BUILDING.
4. ALL LATERAL AND MAIN LINES IN SYSTEM WILL BE CONTAINED IN SLEEVES WHEREVER CONCRETE IS TO BE OVERLAID.
5. PIPE SIZES ARE SHOWN AT TRANSITION.
6. CLOCK TO BE MOUNTED ON BUILDING WALL WHERE SHOWN.
7. MAXIMUM LENGTH OF SWING PIPE ON ALL HEADS SHALL BE 10 FT., MINIMUM LENGTH SHALL BE 2 FT.
8. ALL MAINS SHALL BE BURIED AT A MINIMUM DEPTH OF 18 IN. ALL LATERALS AT A DEPTH OF 18 IN. ALL VALVE WIRING SHALL BE BUNDLED BY TAPING AT 25 FT. INTERVALS AND PLACED BELOW IRRIGATION PIPING FOR PROTECTION.
9. CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT LOW POINT ON ALL MAIN LINES.
10. PRESSURE REGULATING VALVE TO BE PLACED FOLLOWING BACKFLOW PREVENTOR.
11. DRIP ZONES TO HAVE WYE FILTERS AFTER PEB VALVE.
12. MAINLINE IS DIAGRAMMATIC. TO BE LOCATED WITH XCEL ENERGY TRENCH WHERE POSSIBLE.
13. SYSTEM IS DESIGNED TO OPERATE AT 40 PSI AT HEADS.
14. SEE SHEET L4 FOR DETAILS.

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY MH
CHECKED BY TC
JOB NO. 0001
DATE 3-13-01
REVISIONS

DRAWING NO. 0001-03-13-01-2

SHEET NO. L2

STATUS
- DRAFT
- PRELIMINARY
- BID
- CONSTRUCTION
- AS BUILT

CIAVONNE & ASSOCS., INC.
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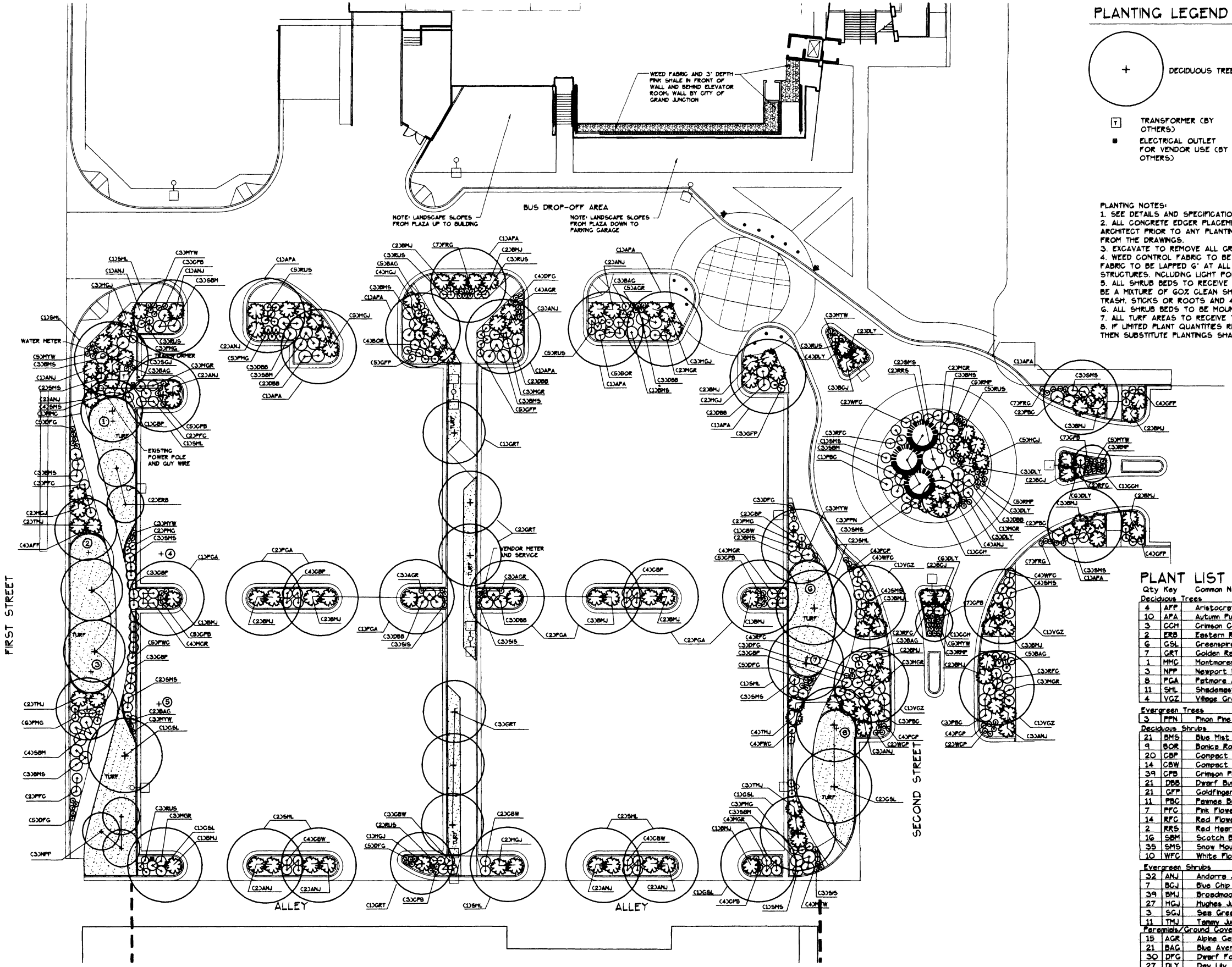
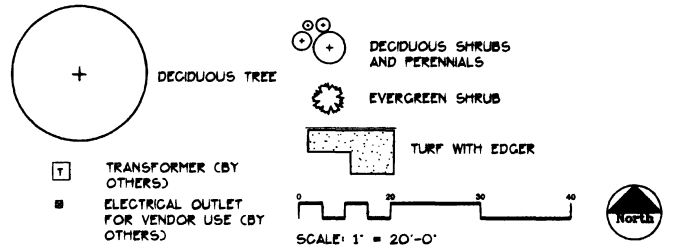
PARKING LOT AND ROUNDABOUT IRRIGATION

09103723.tif

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION



PLANTING LEGEND



PLANTING NOTES:
1. SEE DETAILS AND SPECIFICATIONS AS THEY APPLY TO THIS AND RELATED WORK.
2. ALL CONCRETE EDGER PLACEMENT (LINE AND GRADE) SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ANY PLANTING OR IRRIGATION. CONTRACTOR SHALL SCALE EDGER LOCATION FROM THE DRAWINGS.
3. EXCAVATE TO REMOVE ALL GRAVEL, TRASH, ETC. FROM ALL SHRUB BEDS. (SEE SPECIFICATIONS)
4. WEED CONTROL FABRIC TO BE MIRISCAPE II OR OTHER NON-WOVEN WEED CONTROL FABRIC. FABRIC TO BE LAPPED 6" AT ALL JOINTS. FABRIC SHALL BE CUT AS CLOSE AS POSSIBLE TO ALL STRUCTURES, INCLUDING LIGHT POLE BASES, CURBS, RAIL BASES, ETC.
5. ALL SHRUB BEDS TO RECEIVE TOPSOIL, SOIL AMENDMENT, WEED FABRIC AND MULCH. MULCH TO BE A MIXTURE OF 60Z CLEAN SHAVINGS OF MEDIUM COURSED SHREDDED ASPEN BARK, FREE OF TRASH, STICKS OR ROOTS AND 40Z PINK SHALE ROCK, A MIXTURE OF 3/4" TO 2-1/2" SIZES.
6. ALL SHRUB BEDS TO BE MOUNDED (SEE SPECIFICATIONS)
7. ALL TURF AREAS TO RECEIVE TOPSOIL AND SOIL AMENDMENT PRIOR TO SODDING.
8. IF LIMITED PLANT QUANTITIES REQUIRE PARTIAL SUBSTITUTION WITH ALTERNATE PLANT SPECIES, THEN SUBSTITUTE PLANTINGS SHALL BE RESTRICTED TO SINGLE SPECIES PER GROUPING.

EDGER LAYOUT SCHEDULE

KEY	NORTHING	EASTING	RADIUS
①	35563.62	89548.20	9.5'
②	35510.63	89538.58	7.5'
③	35462.43	89539.50	8.5'
④	35510.03	89567.94	15'
⑤	35449.39	89566.93	14.5'
⑥	35499.16	89827.20	8'
⑦	35468.06	89826.70	7.5'
⑧	35439.42	89838.16	7.5'

PLANT LIST

Qty	Key	Common Name	Scientific Name	Size
Deciduous Trees				
4	AFP	Aristocrat Pear	Pyrus calleryana 'Aristocrat'	1-1/2"
10	APA	Autumn Purple Ash	Fraxinus americana 'Autumn Purple'	1-1/2"
3	CCH	Crimson Cloud Hawthorn	Fraxinus americana 'Autumn Purple'	1-1/2"
2	ERB	Eastern Redbud	Cercis canadensis	1-1/2"
6	GSL	Greenspire Linden	Tilia cordata 'Greenspire'	1-1/2"
7	GRT	Golden Raintree	Koelreuteria paniculata	1-1/2"
1	MMC	Montmorency Cherry	Prunus 'Montmorency'	1-1/2"
3	NPP	Newport Plum	Prunus cerasifera 'Newport'	1-1/2"
8	PGA	Patmore Ash	Fraxinus pennsylvanica 'Patmore'	1-1/2"
11	SHL	Shademaster Honeylocust	Gleditsia triacanthos inermis 'Shademaster'	1-1/2"
4	VGZ	Village Green Zelkova	Zelkova serrata 'Village Green'	1-1/2"
Evergreen Trees				
3	PPN	Pinon Pine	Pinus edulis	6'
Deciduous Shrubs				
21	BMS	Blue Mist Spirea	Caryopteris incana	5 gal
9	BOR	Bonica Rose	Rosa hybrida 'bonica'	5 gal
20	CBP	Compact Purple Butterfly Bush	Buddleia davidi nanhoensis 'Petite Indigo'	5 gal
14	CBW	Compact White Butterfly Bush	Buddleia davidi nanhoensis 'Petite Snow'	5 gal
39	CPB	Crimson Pigmy Barberry	Berberis thunbergii 'Atropurpurea nana'	5 gal
21	DBB	Dwarf Burning Bush	Euonymus alata 'Compacta'	5 gal
21	GFP	Goldfinger Potentilla	Potentilla fruticosa 'Goldfinger'	5 gal
11	PBC	Pawnee Buttes Sand Cherry	Prunus besseyi 'Pawnee Buttes'	5 gal
7	PFC	Pink Flower Carpet Rose	Rosa x flower Carpet 'Noatraum'	2 gal
14	RFC	Red Flower Carpet Rose	Rosa x flower Carpet 'Noare'	2 gal
2	RRS	Red Heart Rose of Sharon	Hibiscus syriacus 'Red Heart'	5 gal
16	SBM	Scotch Broom	Cytisus scoparius 'Moonlight'	5 gal
35	SMS	Snow Mound Spirea	Spiraea nipponica tosaensis	5 gal
10	WFC	White Flower Carpet Rose	Rosa x flower Carpet 'Noeschnee'	2 gal
Evergreen Shrubs				
32	ANJ	Andorra Juniper	Juniperus horizontalis 'Andorra'	5 gal
7	BCJ	Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	5 gal
39	BMJ	Broadmoor Juniper	Juniperus sabina 'Broadmoor'	5 gal
27	HGJ	Hughes Juniper	Juniperus horizontalis 'Hughes'	5 gal
3	SGJ	Sea Green Juniper	Juniperus sabina 'Tamariscifolia'	5 gal
11	TMJ	Tammy Juniper	Juniperus sabina 'Tamariscifolia'	5 gal
Perennials/Ground Covers				
15	AGR	Alpine Geranium	Geranium sanguineum	1 gal
21	BAG	Blue Avena Grass	Helictotrichon sempervirens	1 gal
30	DFG	Dwarf Fountain Grass	Pennisetum alopecuroides 'Hamlin'	1 gal
27	DLY	Day Lily	Hemerocallis sp.	1 gal
21	FRG	Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 gal
32	MGR	Maiden Grass	Miscanthus sinensis 'Gracillimus'	1 gal
34	MYW	Moonshine Yarrow	Achillea millefolium 'Moonshine'	1 gal
12	PCF	Pink Creeping Phlox	Phlox subulata 'Pink'	1 gal
21	PMG	Purple Maiden Grass	Miscanthus sinensis purpurescens	1 gal
9	PWC	Purple Wintercreeper	Euonymus fortunei 'Coloratus'	1 gal
16	RMP	Rocky Mountain Penstemon	Penstemon strictus	1 gal
32	RUS	Russian Sage	Perovskia atriplicifolia	1 gal
9	SIS	Snow in Summer	Cerastium tomentosum	1 gal
4	WCF	White Creeping Phlox	Phlox subulata 'White'	1 gal

PARKING LOT AND ROUNDABOUT LANDSCAPE PLAN

DRAWN BY MH
CHECKED BY TC
JOB NO. 0001
DATE 3-13-01
REVISIONS

DRAWING NO. 0001-03-13-01-3

SHEET NO. L3

STATUS
- ○ DRAFT
- ○ PRELIMINARY
- ● BID
- ○ CONSTRUCTION
- ○ AS BUILT

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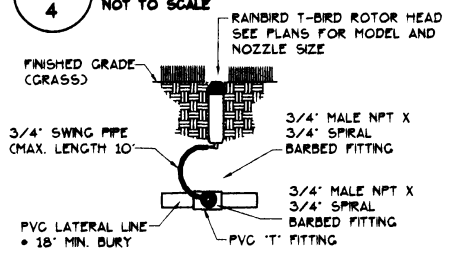
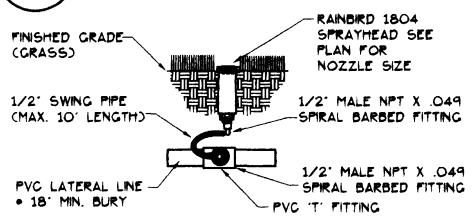
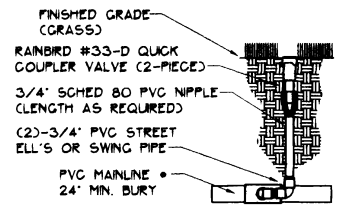
A/4 RAINBIRD T-BIRD ROTOR
NOT TO SCALE



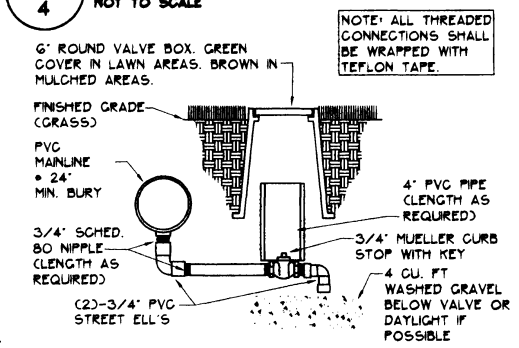
B/4 RAINBIRD 1804 SPRAYHEAD
NOT TO SCALE



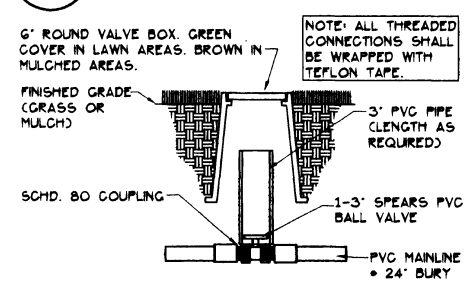
C/4 QUICK COUPLER
NOT TO SCALE



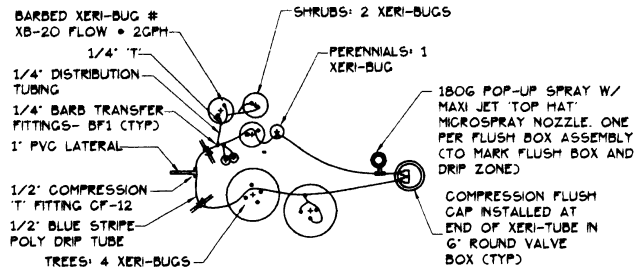
D/4 MANUAL DRAIN VALVE (TYP)
NOT TO SCALE



E/4 ISOLATION VALVE (TYP 1-3" LINE)
NOT TO SCALE

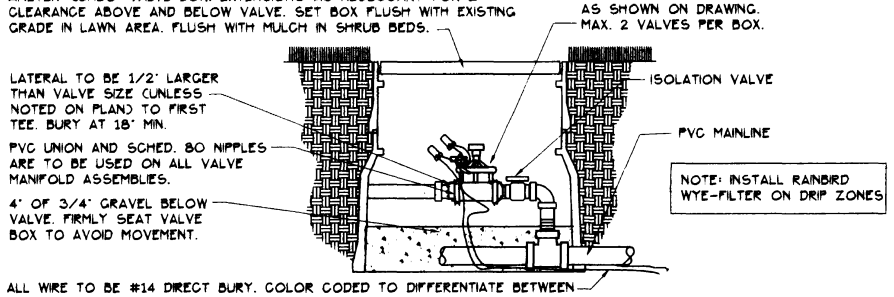


F/4 RAINBIRD XERI-BUG LAYOUT
NOT TO SCALE



TUBING PLACEMENT AND LIMITS	EMITTER PLACEMENT	FLUSH BOX PLACEMENT
1/2" DISTRIBUTION TUBE-MAX. 200 GPH PER LENGTH. MAX. 300' LENGTH. TUBING MAY BRANCH BUT SHALL NOT LOOP. EACH BRANCH TO END WITH FLUSH CAP IN 6" ROUND VALVE BOX. 1/4" DISTRIBUTION TUBE-MAX. 15 GPH PER LENGTH. MAX. 10' LENGTH. CONNECTION WITH 1/2" TUBE TO BE 1/4" COUPLER. NOT XERI-BUG (WITHIN GPH LIMIT). ALL TUBING TO BE PLACED BELOW WEED CONTROL FABRIC (WHERE FABRIC OCCURS. TUBING TO BE STAKED AT EMITTER AT MAX 5' INTERVALS WITH MAX. 8" STAPLES	PERENNIALS: ONE XERI-BUG PER PLANT. LOCATED AND STAKED AT CENTER OF ROOT BALL. SHRUBS: TWO XERIBUGS PER PLANT. LOCATED AND STAKED AT CENTER OF ROOT BALL. MIN. 4" APART FROM EACH OTHER. TREES: FOUR XERI-BUGS PER TREE. LOCATED AND STAKED 6" FROM CENTER OF ROOT BALL. MIN. 12" FROM EACH OTHER.	MINIMIZE NUMBER OF FLUSH BOXES. LOCATE ADJACENT TO WALKS OR DRIVES FOR MAINTENANCE ACCESS. INSTALL 180G MAXI JET 'TOP HAT' MICROSPRAY NOZZLE ADJACENT TO FLUSH BOX. DIRECT SPRAY TOWARD PLANTINGS. XERI-BUGS ARE NOT NECESSARY FOR THOSE PLANTS COVERED BY MICROSPRAY.

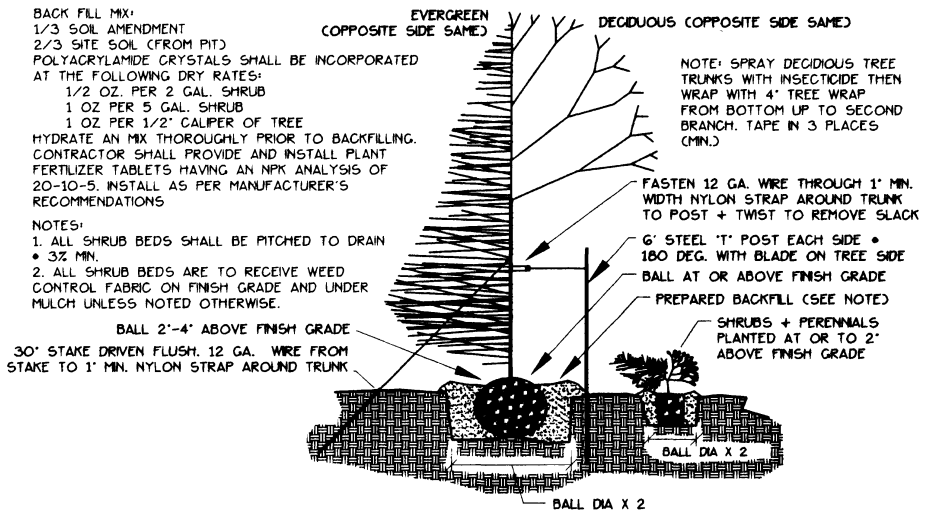
G/4 RAINBIRD PEB VALVE
NOT TO SCALE



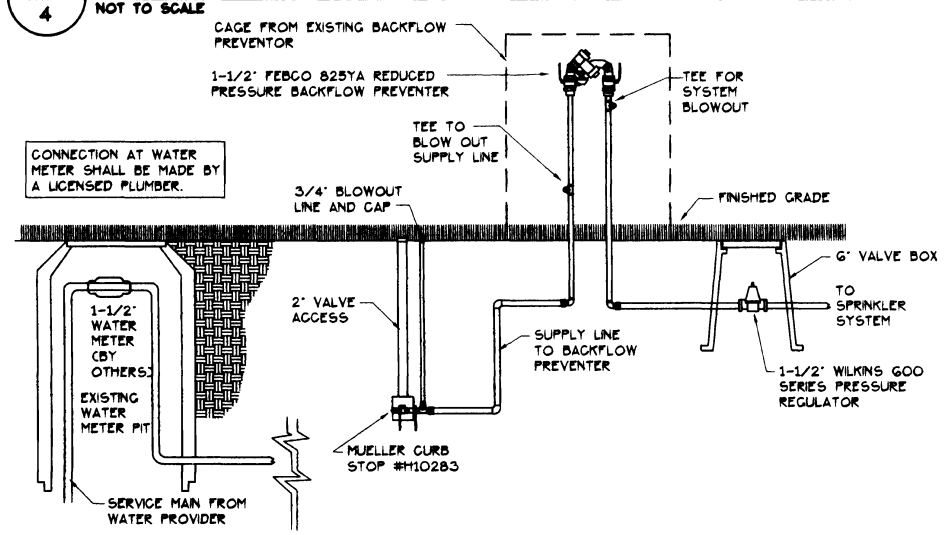
J/4 PLANTING DETAIL (TYP)
NOT TO SCALE

BACK FILL MIX:
1/3 SOIL AMENDMENT
2/3 SITE SOIL (FROM PIT)
POLYACRYLAMIDE CRYSTALS SHALL BE INCORPORATED AT THE FOLLOWING DRY RATES:
1/2 OZ. PER 2 GAL. SHRUB
1 OZ PER 5 GAL. SHRUB
1 OZ PER 1/2" CALIPER OF TREE
HYDRATE AN MX THOROUGHLY PRIOR TO BACKFILLING. CONTRACTOR SHALL PROVIDE AND INSTALL PLANT FERTILIZER TABLETS HAVING AN NPK ANALYSIS OF 20-10-5. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS

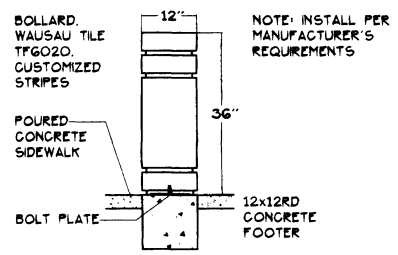
NOTES:
1. ALL SHRUB BEDS SHALL BE PITCHED TO DRAIN • 3% MIN.
2. ALL SHRUB BEDS ARE TO RECEIVE WEED CONTROL FABRIC ON FINISH GRADE AND UNDER MULCH UNLESS NOTED OTHERWISE.



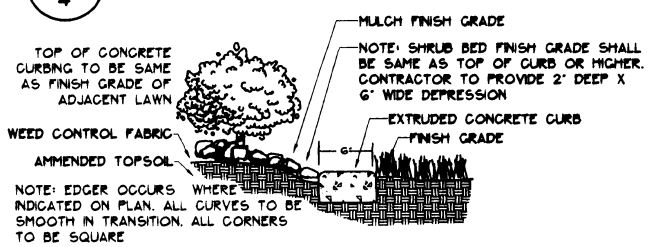
H/4 WATER METER AND BACKFLOW PREVENTER (BY CITY OF GRAND JUNCTION)
NOT TO SCALE



I/4 BOLLARD (TYP)
NOT TO SCALE



K/4 CONCRETE EDGER (TYP)
NOT TO SCALE



LANDSCAPE AND IRRIGATION DETAILS

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY MH
CHECKED BY TC
JOB NO. 0001
DATE 3-13-01
REVISIONS

DRAWING NO. 0001-03-13-01-4

SHEET NO. L4

STATUS
- ○ DRAFT
- ○ PRELIMINARY
- ● BID
- ○ CONSTRUCTION
- ○ AS BUILT

CIAVONNE & ASSOCS., INC.
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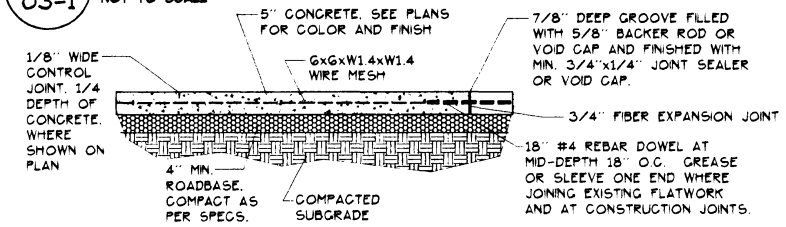
09103725.tif

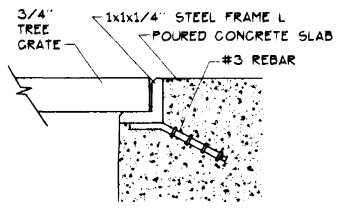
A 03-1 CONCRETE. CONTROL JOINT. AND EXPANSION JOINT SECTIONS (TYP.)

NOT TO SCALE



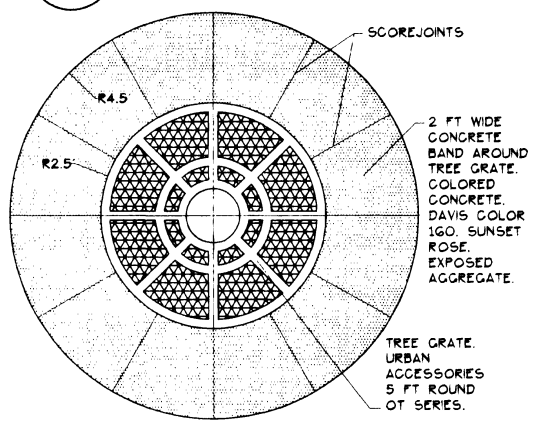
B 03-1 TREE GRATE FRAME (TYP.)

NOT TO SCALE



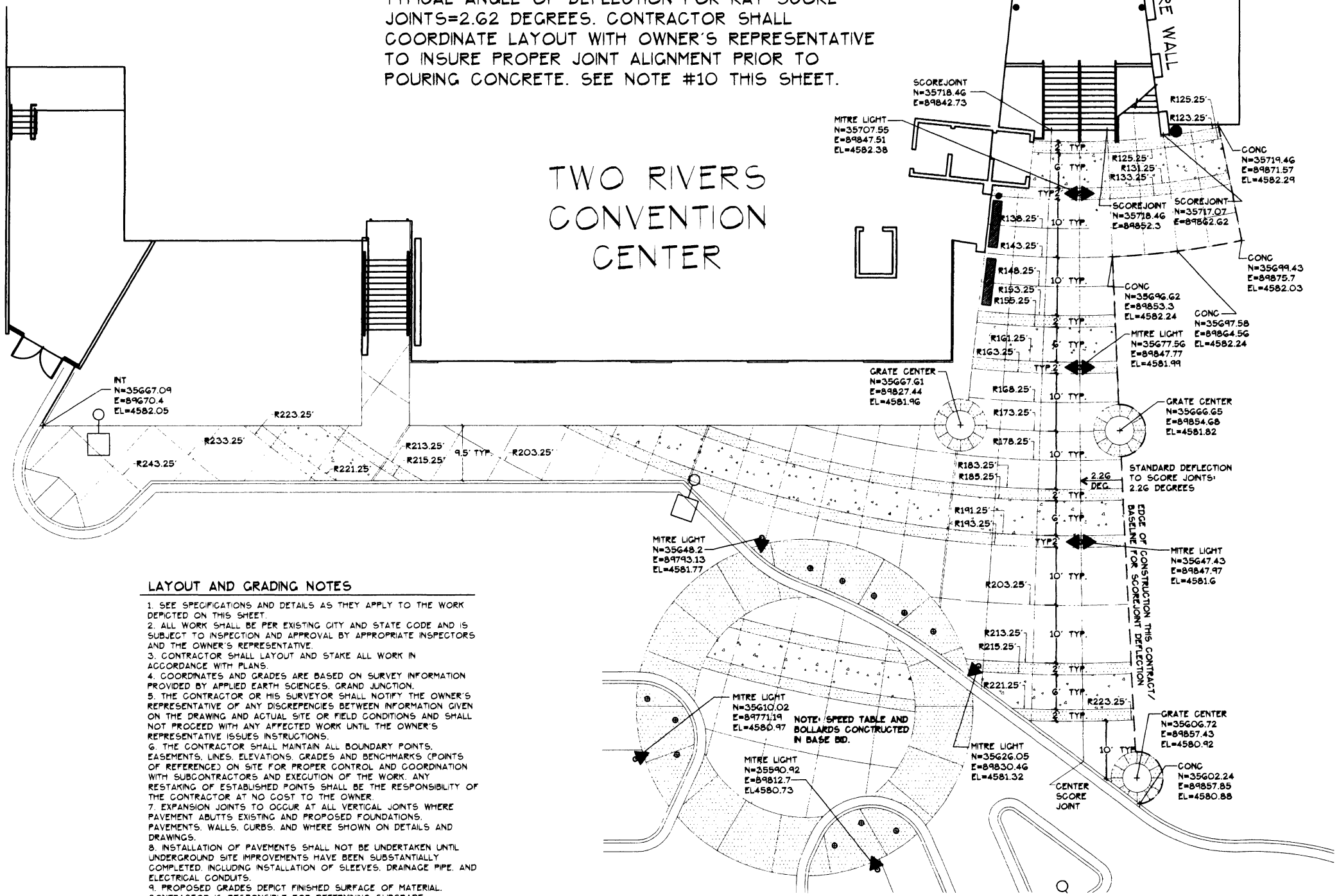
C 03-1 TREE GRATE (TYP.)

NOT TO SCALE



NOTES:
CENTER POINT FOR PLAZA LAYOUT AND SCORE JOINT PATTERN IS NORTH OF NE BUILDING ENTRANCE:
N=35840.22 E=89846.74

TYPICAL ANGLE OF DEFLECTION FOR RAY SCORE JOINTS=2.62 DEGREES. CONTRACTOR SHALL COORDINATE LAYOUT WITH OWNER'S REPRESENTATIVE TO INSURE PROPER JOINT ALIGNMENT PRIOR TO POURING CONCRETE. SEE NOTE #10 THIS SHEET.



LEGEND

- 8 FT BENCH
- TREE GRATE AND CONCRETE BAND
- TRASH RECEPTICLE
- TRASH/ASH RECEPTICLE
- PUBLIC SERVICE LIGHT. BASE BID
- MITRE LIGHT. OPTIONS PACKAGE
- BOLLARD. BASE BID
- COLORED CONCRETE: DAVIS COLOR 1GO. SUNSET ROSE EXPOSED AGREGATE
- UNCOLORED CONCRETE: EXPOSED AGREGATE
- UNCOLORED CONCRETE: NOT EXPOSED AGREGATE
- CONTROL JOINT
- EXPANSION JOINT. SEE NOTE #7

SITE FURNITURE SCHEDULE

2-DUMOR. INC. 8 FT BENCHES. BENCH 104

3-DUMOR. INC. ASH/TRASH RECEPTICLE 129

1-DUMOR. INC. TRASH RECEPTICLE 89

LAYOUT AND GRADING NOTES

1. SEE SPECIFICATIONS AND DETAILS AS THEY APPLY TO THE WORK DEPICTED ON THIS SHEET.
2. ALL WORK SHALL BE PER EXISTING CITY AND STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL LAYOUT AND STAKE ALL WORK IN ACCORDANCE WITH PLANS.
4. COORDINATES AND GRADES ARE BASED ON SURVEY INFORMATION PROVIDED BY APPLIED EARTH SCIENCES. GRAND JUNCTION.
5. THE CONTRACTOR OR HIS SURVEYOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPENCIES BETWEEN INFORMATION GIVEN ON THE DRAWING AND ACTUAL SITE OR FIELD CONDITIONS AND SHALL NOT PROCEED WITH ANY AFFECTED WORK UNTIL THE OWNER'S REPRESENTATIVE ISSUES INSTRUCTIONS.
6. THE CONTRACTOR SHALL MAINTAIN ALL BOUNDARY POINTS, EASEMENTS, LINES, ELEVATIONS, GRADES AND BENCHMARKS (POINTS OF REFERENCE) ON SITE FOR PROPER CONTROL AND COORDINATION WITH SUBCONTRACTORS AND EXECUTION OF THE WORK. ANY RESTAKING OF ESTABLISHED POINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO THE OWNER.
7. EXPANSION JOINTS TO OCCUR AT ALL VERTICAL JOINTS WHERE PAVEMENT ABUTTS EXISTING AND PROPOSED FOUNDATIONS, PAVEMENTS, WALLS, CURBS, AND WHERE SHOWN ON DETAILS AND DRAWINGS.
8. INSTALLATION OF PAVEMENTS SHALL NOT BE UNDERTAKEN UNTIL UNDERGROUND SITE IMPROVEMENTS HAVE BEEN SUBSTANTIALLY COMPLETED, INCLUDING INSTALLATION OF SLEEVES, DRAINAGE PIPE, AND ELECTRICAL CONDUITS.
9. PROPOSED GRADES DEPICT FINISHED SURFACE OF MATERIAL. CONTRACTOR IS RESPONSIBLE FOR DETERMINING SUBGRADE ELEVATIONS.
10. SCORE JOINT PATTERN IS CRITICAL. ARC SCORE JOINTS SHALL BE SMOOTH AND TRUE CURVES. RAY SCORE JOINTS SHALL BE STRAIGHT AND TRUE. RAY SCORE JOINTS ARE APPROXIMATE AND BASED ON ALIGNMENT OF "CENTER SCORE JOINT" WITH THE MIDDLE OF THE ENTRY STAIRS AND ALIGNMENT WITH "FEATURE WALL." COORDINATE LAYOUT WITH OWNER'S REPRESENTATIVE PRIOR TO POURING CONCRETE.

OPTIONS PACKAGE #3 PLAZA CONCRETE LAYOUT AND GRADING

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY SC
CHECKED BY TC
JOB NO. 0001
DATE 3-13-01
REVISIONS

DRAWING NO. 0001-03-13-01-5

SHEET NO. 03-1

STATUS
- DRAFT
- PRELIMINARY
- BID
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- AS BUILT

CIAVONNE & ASSOCS., INC.
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EMAIL: ciavonne@gj.net

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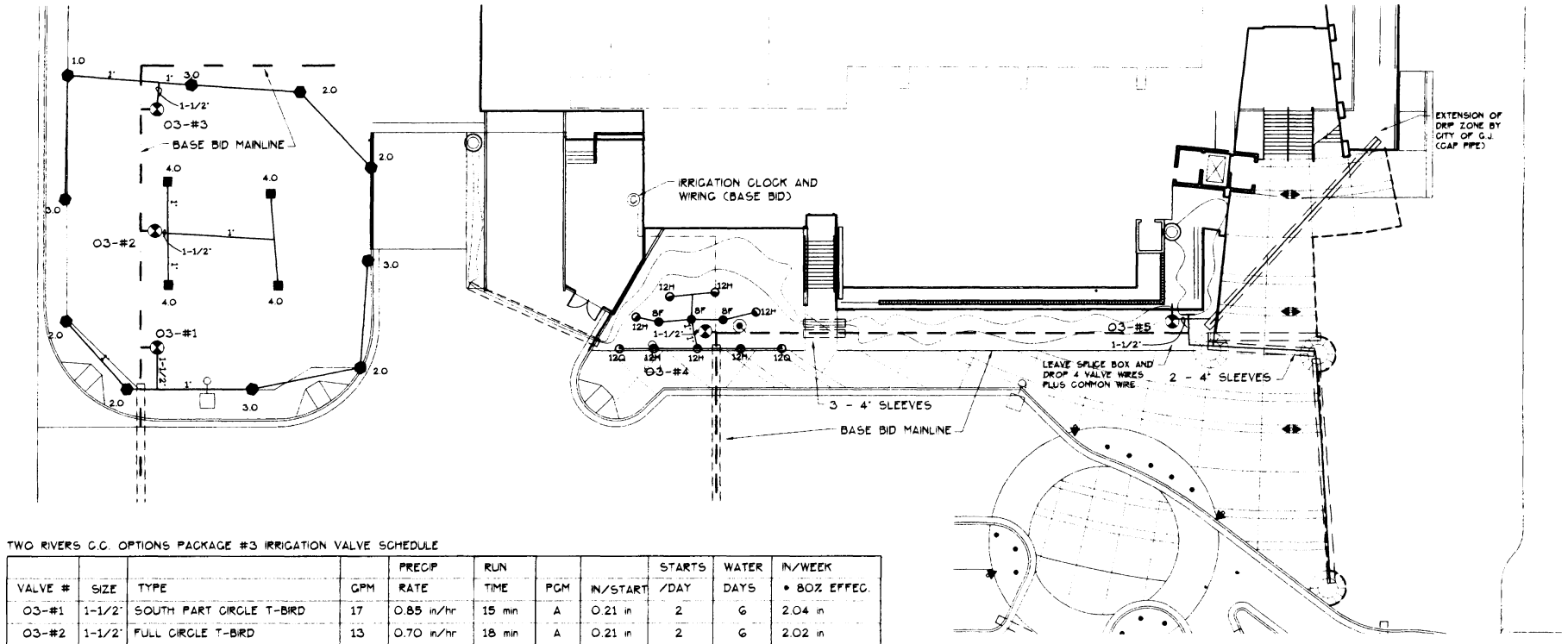


TWO RIVERS C.C. OPTIONS PACKAGE #3 IRRIGATION VALVE SCHEDULE

VALVE #	SIZE	TYPE	GPM	PRECIP RATE	RUN TIME	PGM	IN/START	STARTS /DAY	WATER DAYS	IN/WEEK • 80% EFFEC.
03-#1	1-1/2"	SOUTH PART CIRCLE T-BIRD	17	0.85 in/hr	15 min	A	0.21 in	2	6	2.04 in
03-#2	1-1/2"	FULL CIRCLE T-BIRD	13	0.70 in/hr	18 min	A	0.21 in	2	6	2.02 in
03-#3	1-1/2"	NORTH PART CIRCLE T-BIRD	15	0.80 in/hr	16 min	A	0.21 in	2	6	2.05 in
03-#4	1-1/2"	SOUTH BULDING SPRAY	14	1.74 in/hr	7 min	A	0.20 in	2	6	1.95 in
03-#5	1-1/2"	BULDING DRIP	7.9	2 gal/emit/hr	56 min	B	1.9 gal	2	2	6.0 gal

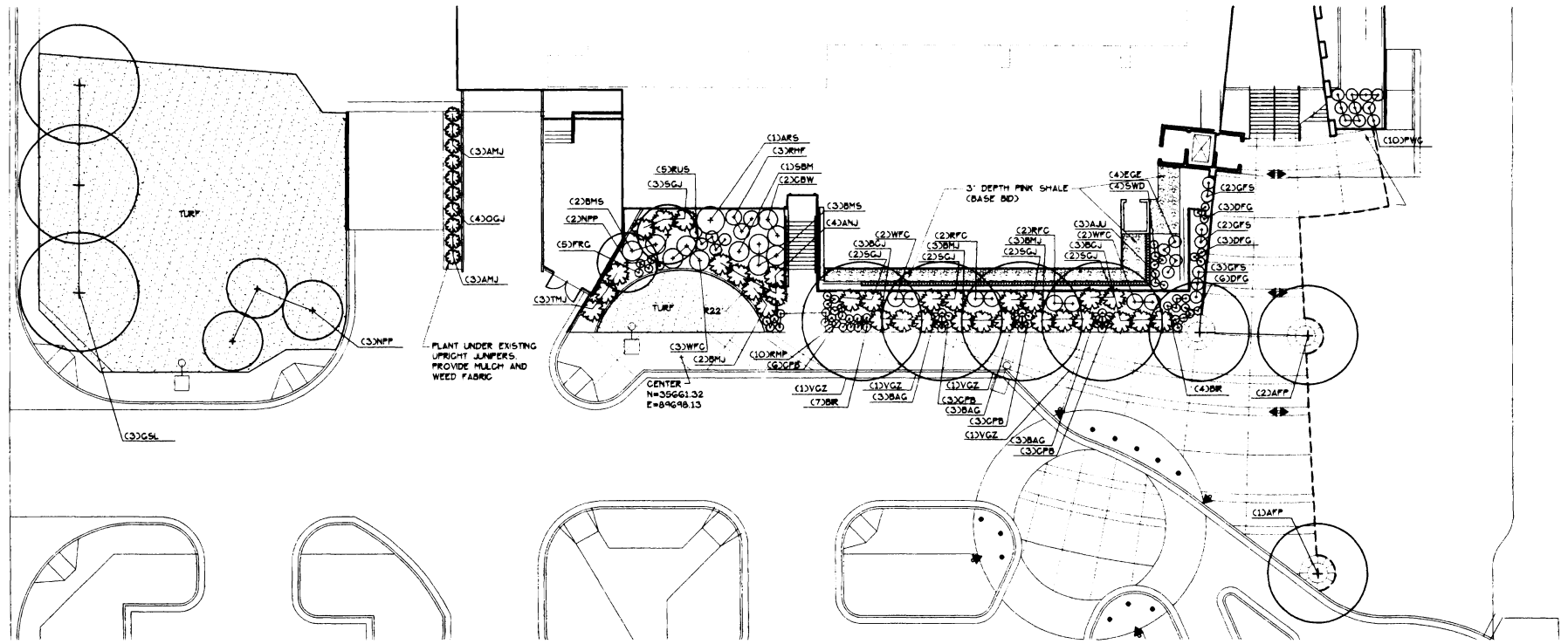
	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT
WATER BUDGET SETTINGS	90%	100%	130%	160%	120%	90%	70%

IRRIGATION LEGEND

- RAINBIRD 1804 SERIES SPRAY HEAD WITH NOZZLE AS SHOWN
- CLASS 160 PVC LATERAL PIPE 1 IN. UNLESS OTHERWISE NOTED
- CLASS 160 PVC LATERAL FOR DRIP ZONES 1 IN. UNLESS OTHERWISE NOTED
- CLASS 200 PVC MAINLINE 2 IN. UNLESS OTHERWISE NOTED
- INITIAL MAINLINE CONSTRUCTION (2 IN.)
- IRRIGATION SLEEVING, 4" UNLESS OTHERWISE NOTED.
- ISOLATION VALVE
- MANUAL DRAIN VALVE
- RAINBIRD PEB ZONE VALVE. SIZE SHOWN IN VALVE SCHEDULE
- RAINBIRD QUICK COUPLER
- COMPRESSION 'T' FITTING
- DRIP ZONE FLUSH BOX
- RAINBIRD ESP-MC 40 WALL MOUNT IRRIGATION CLOCK IN EXTERIOR CABINET
- RAINBIRD T-BIRD T-40 SERIES ROTOR SPRINKLER PART CIRCLE. NOZZLE SIZE SHOWN (OPTIONS #3 PACKAGE)
- RAINBIRD T-BIRD T-30 SERIES ROTOR SPRINKLER FULL CIRCLE. WITH NOZZLE SHOWN (OPTIONS #3 PACKAGE)
- LIGHT FIXTURES - SEE CIVIL/ELECTRICAL DRAWINGS
- BOLLARDS - SEE CIVIL DRAWINGS
- TRANSFORMER (SEE ELECTRICAL DRAWINGS)

0 20 30 40 North

IRRIGATION NOTES:
1. ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
2. CITY OF GRAND JUNCTION TO INSTALL WATER METER, METER PIT, BACKFLOW PREVENTOR AND ASSOCIATED HARDWARE TO CODE.
3. CONTRACTOR IS TO CONNECT TO BACKFLOW PREVENTOR AND PROVIDE INITIAL MAINLINE AND SLEEVING AT BEGINNING OF PROJECT DEMOLITION TO PROVIDE IRRIGATION WATER TO EXISTING LANDSCAPE AT BUILDING.
4. ALL LATERAL AND MAIN LINES IN SYSTEM WILL BE CONTAINED IN SLEEVES WHEREVER CONCRETE IS TO BE OVERLAID.
5. PIPE SIZES ARE SHOWN AT TRANSITION.
6. CLOCK TO BE MOUNTED ON BUILDING WALL WHERE SHOWN.
7. MAXIMUM LENGTH OF SWING PIPE ON ALL HEADS SHALL BE 10 FT., MINIMUM LENGTH SHALL BE 2 FT.
8. ALL MAINS SHALL BE BURIED AT A MINIMUM DEPTH OF 18 IN. ALL LATERALS AT A DEPTH OF 18 IN. ALL VALVE WIRING SHALL BE BUNDLED BY TAPING AT 25 FT. INTERVALS AND PLACED BELOW IRRIGATION PIPING FOR PROTECTION.
9. CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT LOW POINT ON ALL MAIN LINES.
10. PRESSURE REGULATING VALVE TO BE PLACED FOLLOWING BACKFLOW PREVENTOR.
11. DRIP ZONES TO HAVE WYE FILTERS AFTER PEB VALVE.
12. MAINLINE IS DIAGRAMMATIC. TO BE LOCATED WITH XCEL ENERGY TRENCH WHERE POSSIBLE.
13. SYSTEM IS DESIGNED TO OPERATE AT 40 PSI AT HEADS.
14. SEE SHEET L4 FOR DETAILS.



PLANT LIST - Options Package #3

Qty	Key	Common Name	Scientific Name	Size
Deciduous Trees				
3	AFP	Aristocrat Pear	Pyrus calleryana 'Aristocrat'	1-1/2"
3	CSL	Greenspire Linden	Tilia cordata 'Greenspire'	1-1/2"
5	NPP	Newport Plum	Prunus cerasifera 'Newport'	1-1/2"
4	VGZ	Village Green Zelkova	Zelkova serrata 'Village Green'	1-1/2"
Deciduous Shrubs				
1	ARS	Arden Rose of Sharon	Hybiscus syriacus 'Arden'	5 gal
5	BMS	Blue Mist Spirea	Caryopteris incana	5 gal
2	CBW	Compact White Butterfly Bush	Buddleia davidii nanhoensis 'Petite Snow'	5 gal
15	CPB	Crimson Pigmy Barberry	Berberis thumbergii 'Atropurpurea nana'	5 gal
7	GFS	Gold Flame Spirea	Spiraea bumalda 'Gold Flame'	5 gal
4	RFC	Red Flower Carpet Rose	Rosa x Flower Carpet 'Noatraum'	2 gal
3	RMF	Columnar Buckthorn	Rhamnus frangula 'Columnaris'	5 gal
1	SBM	Scotch Broom	Cytisus scoparius 'Moonlight'	5 gal
7	WFC	White Flower Carpet Rose	Rosa x Flower Carpet 'Noatraum'	2 gal
Evergreen Shrubs				
6	AMJ	Armstrong Juniper	Juniperus chinensis 'Armstrong'	5 gal
4	ANJ	Andorra Juniper	Juniperus horizontalis 'Andorra'	5 gal
6	BCJ	Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	5 gal
8	BMJ	Broadmoor Juniper	Juniperus sabina 'Broadmoor'	5 gal
4	EGE	Emerald Gaiety Euonymus	Euonymus fortunei 'Emerald Gaiety'	5 gal
4	OGJ	Old Gold Juniper	Juniperus 'Pfitzeriana Old Gold'	5 gal
11	SGJ	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 gal
3	TMJ	Tammy Juniper	Juniperus sabina 'Tamariscifolia'	5 gal
Perennials/Ground Covers				
3	AGU	Carpet Bugle	Ajuga reptans	1 gal
9	BAG	Blue Avena Grass	Helictotrichon sempervirens	1 gal
11	BIR	Bearded Iris	Iris germanica	1 gal
12	DFG	Dwarf Fountain Grass	Pennisetum alopecuroides 'Hamlein'	1 gal
5	FRG	Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 gal
10	PWC	Purple Wintercreeper	Euonymus fortunei 'Coloratus'	1 gal
10	RMP	Rocky Mountain Penstemon	Penstemon strictus	1 gal
5	RUS	Russian Sage	Perovskia atriplicifolia	1 gal
4	SWD	Sweet Woodruff	Galium odoratum	1 gal

PLANTING LEGEND

- DECIDUOUS TREE
- DECIDUOUS SHRUBS AND PERENNIALS
- EVERGREEN SHRUB
- TURF WITH EDGER
- T TRANSFORMER (BY OTHERS)
- ELECTRICAL OUTLET FOR VENDOR USE (BY OTHERS)

0 20 30 40 North

SCALE: 1" = 20'-0"

PLANTING NOTES:
1. SEE DETAILS AND SPECIFICATIONS AS THEY APPLY TO THIS AND RELATED WORK.
2. ALL CONCRETE EDGER PLACEMENT (LINE AND GRADE) SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ANY PLANTING OR IRRIGATION. CONTRACTOR SHALL SCALE EDGER LOCATION FROM THE DRAWINGS.
3. EXCAVATE TO REMOVE ALL GRAVEL, TRASH, ETC. FROM ALL SHRUB BEDS. (SEE SPECIFICATIONS)
4. WEED CONTROL FABRIC TO BE MIRISCAPE II OR OTHER NON-WOVEN WEED CONTROL FABRIC. FABRIC TO BE LAPPED 6" AT ALL JOINTS. FABRIC SHALL BE CUT AS CLOSE AS POSSIBLE TO ALL STRUCTURES, INCLUDING LIGHT POLE BASES, CURBS, RAIL BASES, ETC.
5. ALL SHRUB BEDS TO RECEIVE TOPSOIL, SOIL AMENDMENT, WEED FABRIC AND MULCH. MULCH TO BE A MIXTURE OF 60% CLEAN SHAVINGS OF MEDIUM COURSED SHREDDED ASPEN BARK, FREE OF TRASH, STICKS OR ROOTS AND 40% PINK SHALE ROCK, A MIXTURE OF 3/4" TO 2-1/2" SIZES.
6. ALL SHRUB BEDS TO BE MOUNDED (SEE SPECIFICATIONS)
7. ALL TURF AREAS TO RECEIVE TOPSOIL AND SOIL AMENDMENT PRIOR TO SODDING.
8. IF LIMITED PLANT QUANTITIES REQUIRE PARTIAL SUBSTITUTION WITH ALTERNATE PLANT SPECIES, THEN SUBSTITUTE PLANTINGS SHALL BE RESTRICTED TO SINGLE SPECIES PER GROUPING.

OPTIONS PACKAGE #3 LANDSCAPE AND IRRIGATION PLAN

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY MH
CHECKED BY TC
JOB NO. 0001
DATE 3-13-01
REVISIONS

DRAWING NO. 0001-03-13-01-6

SHEET NO. 03-2

STATUS
- DRAFT
- PRELIMINARY
- BID
- CONSTRUCTION
- AS BUILT

CIAVONNE & ASSOCS., INC.
LANDSCAPE AND PLANNING ARCHITECTS
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GRAND JCT, CO 81501
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CODE REVIEW - 2000 UBC

USE AND OCCUPANCY CLASSIFICATION

BUILDING TO BE GROUP A-3 OCCUPANCY AND CONSTRUCTION TYPE II-B

SECTION 302.1) INCIDENTAL USE AREAS
TABLE 302.1.1 - INDICATES THE PARKING GARAGE REQUIRES A 2 HR SEPARATION FROM THE MAIN OCCUPANCY

GENERAL BUILDING HEIGHTS AND AREAS

SECTION 506 - AREA MODIFICATIONS- ALLOWS AREA INCREASES FOR FRONTAGE, AND BEING SINGLE STORY, CALCULATIONS CONFIRM TYPE II-B ALLOWED

TYPES OF CONSTRUCTION

TABLE 601 TYPE II-B
THIS TABLE INDICATES THAT NO FIRE RATING IS REQUIRED ON BUILDING ELEMENTS FOR THIS BUILDING

FIRE PROTECTION SYSTEMS

903.2.1.3 GROUP A-3
SPRINKLER SYSTEM REQUIRED THROUGHOUT FIRE AREA CONTAINING GROUP A-3 OCCUPANCY WHERE ONE OF THE FOLLOWING EXISTS:
1. THE FIRE AREA EXCEEDS 12,000 SF.
2. THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE.

BOTH OF THE ABOVE CONDITIONS EXIST SO A SPRINKLER SYSTEM IS REQUIRED.

GENERAL MEANS OF EGRESS

1003.2.3 EGRESS WIDTH
THE TOTAL WIDTH OF MEANS OF EGRESS INCHES (MM) SHALL NOT BE LESS THAN THE TOTALL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY THE FACTOR IN TABLE 1003.2.3 AND NOT LESS THAN SPECIFIED ELSEWHERE IN THIS CODE.

TABLE 1003.2.3: INDICATES THAT TYPE A OCCUPANCY WITH A SPRINKLER SYSTEM IS:
STAIRWAYS = 0.2
OTHER EGRESS COMPONENTS = 0.15

EXIT WIDTH REQUIRED:
1. EXHIBIT HALL 17,240 SF / 1 OCC. LOAD OF 2,462 X0.15 = 369 IN. EXIT WIDTH

2. MEETING ROOMS TOTAL 4,432 SF/ 1 OCC. LOAD OF 633 X 0.15 = 95 IN EXIT WIDTH.
a. TYP. SM. MTG RMS. 462 SF / 15 OCC. LOAD OF 30 X 0.15 = 4.5" OR MIN OF 32"
b. TYP LG. MTG RM 1280 SF/ 15 = OCC LOAD OF 85 X 0.15 = MIN 32"

3. OFFICE AREA 1080 SF / 100 = OCC LOAD OF 11 X 0.15 = MIN 32"

4. KITCHEN 3388 SF / 200 = OCC LOAD OF 17 X 0.15 = MIN 32"

EXIT WIDTH PROVIDED:
1. EXHIBIT HALL - 7 DOUBLE 6 FT DOORS ASSUME 66" NET OPENING EACH = 476 TOTAL IN.

2. MEETING ROOMS- TOTAL EXIT WIDTH 4 @ 34", 2 @ 66" = 264 TOTAL INCHES
a. SM MTG. RM 1 DOOR @ 34" CLEAR
b. LG. MTG RM @ DOUBLE 6 FT. DOOR 66" CLEAR

3. OFFICE AREA - 1 DOOR @ 34" CLEAR

4. KITCHEN - 2 DOUBLE DOORS @ 66" EA. = 272"

TOTAL EXIT WIDTH REQUIRED:
1. EXHIBIT HALL 369 IN
2. MEETING ROOMS 95 IN
3. KITCHEN 32 IN
4. OFFICE 32 IN
TOTAL 528 IN. EXIT WIDTH REQUIRED

TOTAL EXIT WIDTH PROVIDED:
1. LOBBY AREA 6 @ 34" =204 IN
2. MEETING ROOMS 4 @ 34" = 136 IN
3. LOADING DOCK 6 @ 34"=204 IN
4. N. SIDE EXHIBIT 4 @ 34" = 136 IN
5. KITCHEN 1 @ 34" = 34 IN
TOTAL 714 IN. EXIT WIDTH PROVIDED

EXIT ACCESS

1004.2.1 EXIT OR EXIT ACCESS DOORWAY REQUIRED.
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE ON OF THE FOLLOWING CONDITIONS EXIST:
1. THE OCCUPANT LOAD OF THE SPACE EXCEEDS THE VALUES IN TABLE 1004.2.1, TABLE 1004.2.1 STATES OCCUPANCY A REQUIRES,
TWO EXITS IF OCCUPANT LOAD IS OVER 50
TWO EXITS REQUIRED FOR OCCUPANT LOAD 1-500
THREE EXITS REQUIRED FOR OCCUPANT LOAD OF 501-1000
FOUR EXITS REQUIRED FOR OCCUPANT LOAD OF MORE THAN 1000

EXIT ACCESS- REQUIRED AND PROVIDED
1. EXHIBIT HALL - 2,462 OCCUPANTS, 4 EXITS REQUIRED, 7 PROVIDED
2. MEETING ROOMS
LARGE - 85 OCCUPANTS, 2 EXITS REQUIRED, 2 PROVIDED
SMALL - 30 OCCUPANTS, 1 EXIT REQUIRED, 1 PROVIDED

SECTION 1004.2.4- EXIT TRAVEL DISTANCE
THERE IS NO POINT IN THIS STRUCTURE THAT IS GREATER THAN 250 FEET FROM AN EXIT

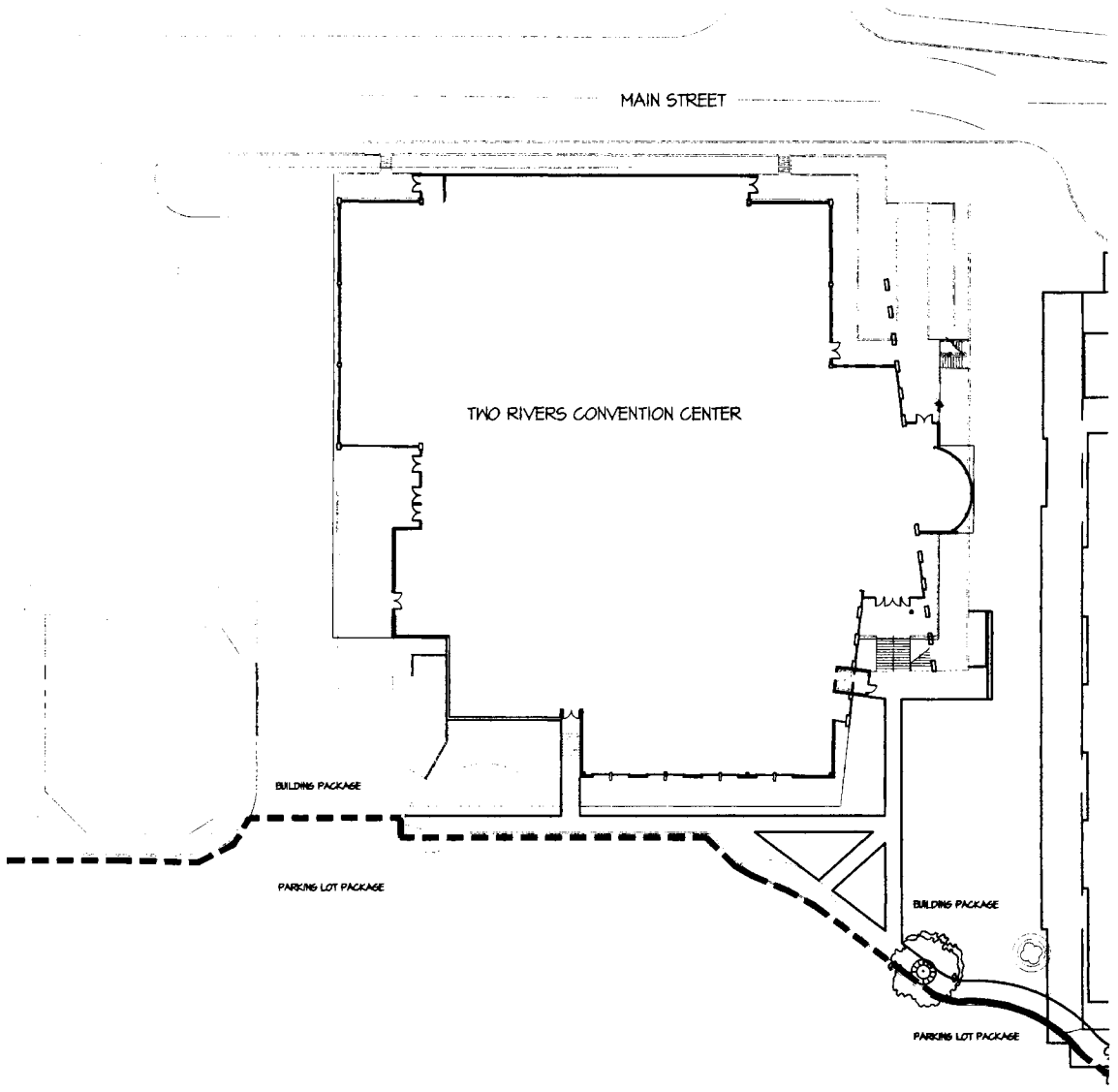
1004.3.2 CORRIDORS-
CONSTRUCTION CORRIDORS SHALL BE FIRE- RESISTANT RATED IN ACCORDANCE WITH TABLE 1004.3.2.1
TABLE STATES, OCCUPANCY A WITH AN OCCUPANT LOAD SERVED BY CORRIDOR GREATER THAN 30, WITH A SPRINKLER SYSTEM HAS A REQUIRED FIRE-RESISTANCE RATING (HOURS) OF 0.

1005 - EXITS
1005.2.1- MINIMUM NUMBER OF EXITS. EVERY FLOOR AREA SHALL BE PROVIDED WITH THE MINIMUM NUMBER OF APPROVED INDEPENDENT EXITS AS REQUIRED BY TABLE 1005.2.1 OR 1005.2.2
TABLE 1005.2.1- MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD MORE THAN 1000 = MINIMUM OF 4 EXITS

EXITS PROVIDED - 9 BANKS OF EXITS

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2000 UNIFORM BUILDING CODE AND ALL FEDERAL, STATE, AND LOCAL CODES AND AGENCIES HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND RESPECTIVE SUBCONTRACTORS TO BUILD TO SATISFY THESE CODES AND CALL FOR ALL NECESSARY INSPECTIONS.
2. REFER TO PROJECT SPECIFICATIONS FOR FURTHER DEFINITION OF THE WORK.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT FOR CLARIFICATION IN THE EVENT OF ANY DISCREPANCY IN THE CONSTRUCTION DOCUMENTS OR ANY AMBIGUITY OF ARCHITECTURAL INTENT.
4. ALL LEGAL EXITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
5. UNLESS DIMENSIONED OTHERWISE, DOOR LOCATIONS SHALL BE 5" FROM FINISH WALL TO EDGE OF DOOR OPENING.
6. THE LARGEST SCALE DRAWING SHALL GOVERN OVER ALL OTHER DRAWINGS.
7. "F.V." ON DRAWINGS REFERS TO FIELD VERIFICATION FOR CORRECT DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
8. CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED
9. THE GENERAL CONTRACTOR SHALL PREP ALL FLOORS TO RECEIVE FINISHES.
10. PROVIDE BACKING PLATES IN WALL PER MANUFACTURER'S RECOMMENDATIONS FOR ALL WALL MOUNTED EQUIPMENT AND CASEWORK. FOLLOW ALL RECOMMENDED INSTALLATION PROCEDURES OF THE MANUFACTURER FOR THEIR SPECIFIC PRODUCTS. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS AS NOTED ABOVE. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS WHICH RELATE TO EXISTING CONDITIONS. REPORT ANY DISCREPANCIES TO ARCHITECT.
11. DIMENSIONS SHOWN ON PLANS ARE TO FINISH FACE OF WALL.
12. COORDINATE DUCT, FLUE, AND VENT PENETRATIONS WITH MECHANICAL CONTRACTOR.
13. LOCATE ALL PLUMBING IN PROTECTED AREAS TO AVOID FREEZING OF PIPES AND TRAPS.
14. ALL ELEVATIONS SHOWN ON PLANS ARE BUILDING ELEVATIONS
15. PROVIDE FIRE EXTINGUISHERS AS SHOWN ON THE DRAWINGS.
16. PROVIDE TRAPEZE TO SUPPORT SUSPENDED CEILINGS AS REQUIRED BELOW DUCTWORK OR OTHER OBSTRUCTIONS.
17. ALL WOOD BLOCKING SHALL BE FIRE RESISTANT TREATED WOOD (FRTW).



1 VICINITY MAP
NOT TO SCALE

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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No 9924

CODE REVIEW

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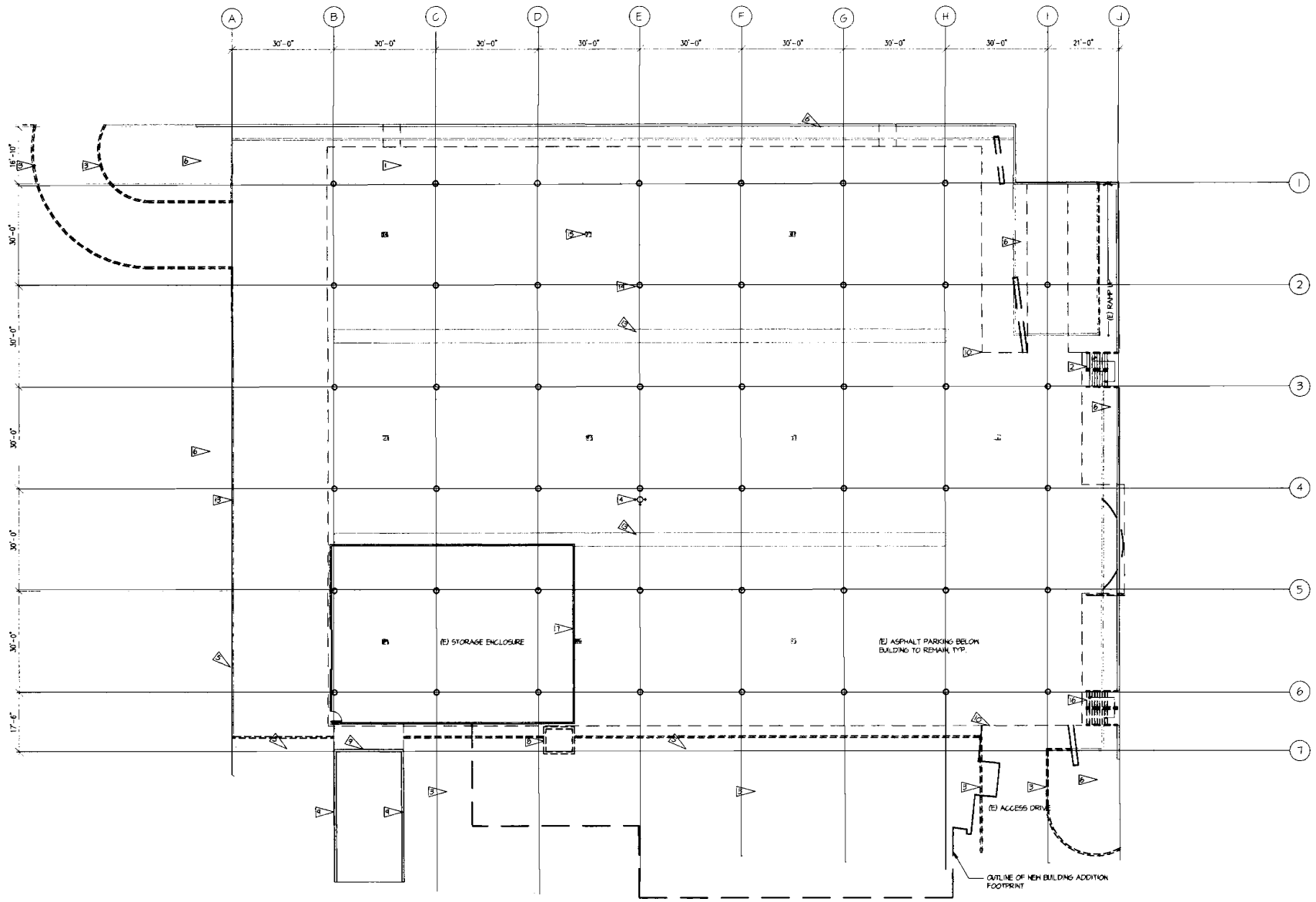

1 PARKING LEVEL DEMO PLAN
SCALE 1/16" = 1'-0"

NORTH

DEMOLITION FLAG NOTES

1. NO WORK IN THIS AREA.
2. EXISTING CONC. STAIRS TO REMAIN.
3. REMOVE EXISTING ASPHALT DRIVEWAYS, PARKING AREAS, CURB & GUTTER & LANDSCAPING. REFER TO CIVIL / LANDSCAPE DRAWINGS
4. EXISTING FIRE HYDRANT & PIPE BOLLARDS TO REMAIN.
5. REMOVE EXISTING CONC. CURB. REMOVE ASPHALT PAVING AS REQUIRED.
6. REFER TO CIVIL/LANDSCAPE DRAWINGS FOR WORK ALL LANDSCAPE AREAS
7. EXISTING 7-11 STORAGE ROOM WALLS TO REMAIN, TYP.
8. REMOVE EXISTING TRANSFORMER AND ENCLOSURE
9. EXISTING LOADING RAMP TO REMAIN. REMOVE EXISTING GUARD RAILS.
10. OUTLINE OF EXISTING BUILDING ABOVE
11. NOT USED
12. EXISTING CONC WALL TO REMAIN
13. EXISTING CONC. CURB TO REMAIN
14. EXISTING CONC. COL. TO REMAIN, TYP.
15. EXISTING AREA DRAINS TO REMAIN, TYP.
16. REMOVE CONC. STAIR, STL. GUARDRAILS & HANDRAILS.

DEMOLITION GENERAL NOTES

1. REFER TO MEP PLANS FOR ADDITIONAL INFORMATION.
2. PREPARE AND PAINT ALL EXTERIOR PAINTED SURFACES.
3. COORDINATE ALL REMOVAL OR STORAGE OF EXTG SITE FURNITURE WITH OWNER.
4. GC TO COORDINATE AND RELOCATE EXTG UTILITY POLES AND UG LINES AS REQUIRED.

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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No 9924

EXISTING/ DEMO PARKING LEVEL PLAN

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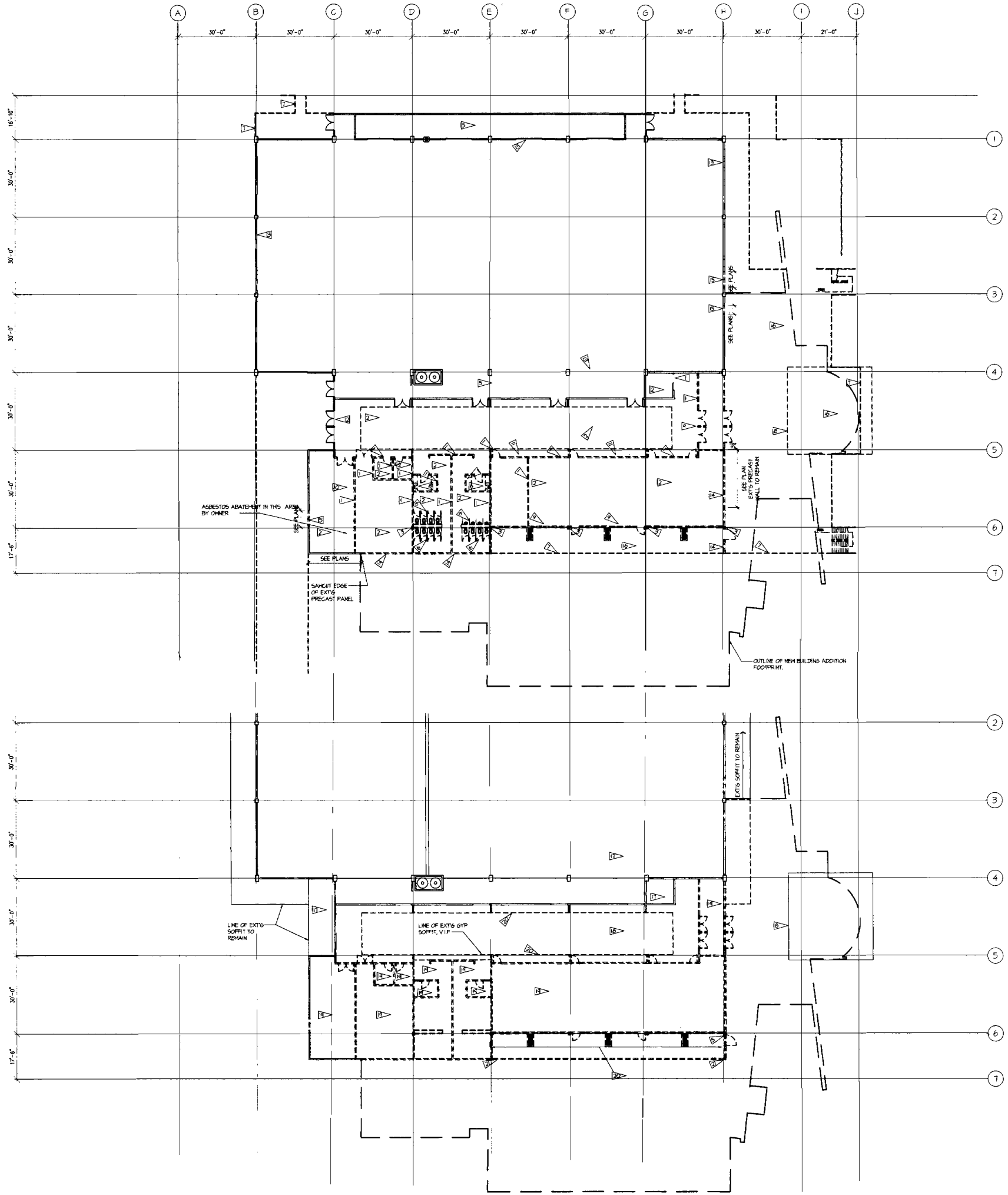

DEMOLITION FLAG NOTES

1. REMOVE EXISTING PARTITION WALLS, FINISHES, DOORS AND CASEWORK.
2. REMOVE EXISTING FLOOR COVERING THROUGHOUT SPACE. PREPARE FLOOR FOR NEW FLOORING.
3. EXISTING COLUMN. SEE STRUCTURAL.
4. NOT USED
5. NO WORK IN THIS AREA
6. REMOVE EXISTING PLUMBING FIXTURES, PARTITIONS, COUNTERS AND ACCESSORIES.
7. REMOVE EXISTING GUARDRAILS & HANDRAILS AS REQUIRED FOR NEW DESIGN. SEE DETAIL.
8. REMOVE EXISTING SPACEFRAME CANOPY & STEEL SUPPORT. SALVAGE FOR OWNER.
9. REMOVE EXTERIOR STOREFRONT, DOORS, PARTITION POCKETS, SOFFIT ETC. - PROVIDE TEMP. WEATHER PROTECTION.
10. KITCHEN AREA - COORDINATE W/ OWNER REMOVAL & STORAGE OF KITCHEN EQUIP. TO BE REUSED.
11. COORDINATE W/ OWNER REMOVAL & STORAGE OF LCO HALL OF FAME CABINETS.
12. EXISTING STOREFRONT AND DOORS TO REMAIN.
13. ADD ALTERNATE #4 - GLASS TO BE REMOVED FROM UPPER WINDOWS - PREPARE TO REPLACE WITH INSULATED SPANDREL PANELS.
14. REMOVE BEARING PRECAST WALL - CONSULT STRUCTURAL FOR REMOVAL OF ROOF TRUSSES AND BEAMS.
15. CUT OPENING IN BEARING PRECAST WALL - CONSULT STRUCTURAL.
16. EXISTING CONCRETE TOPPING SLAB TO REMAIN TYP. PATCH/REPAIR AS REQ'D.

1 PLAZA LEVEL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

NORTH

DEMOLITION REFLECTED CEILING PLAN NOTES

1. EXISTING CEILING TO REMAIN.
2. REMOVE (E) ACT CEILING AND GYPBOARD SOFFIT. SEE PLANS FOR NEW CEILING THIS AREA.
3. REMOVE EXISTING CEILING AND CEILING SUPPORT SEE M/E/P FOR ADDT'L DEMO INFORMATION.
4. REMOVE EXISTING SOFFIT. SEE M/E/P FOR ADDT'L DEMO INFORMATION.

2 PLAZA LEVEL DEMO REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

NORTH

DEMOLITION PLAN GENERAL NOTES

1. REFER TO M/E/P PLANS FOR ADDITIONAL INFORMATION.
2. PREPARE AND PAINT ALL EXTERIOR PAINTED SURFACES.
3. COORDINATE ALL REMOVAL OR STORAGE OF EXTG SITE FURNITURE WITH OWNER.

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SINK COMBS DETHLEFS

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ISSUES/REVISIONS	Date:
SCHEMATIC DESIGN	9-08-00
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

EXISTING / DEMO PLAZA LEVEL FLOOR & REF. CLG. PLANS

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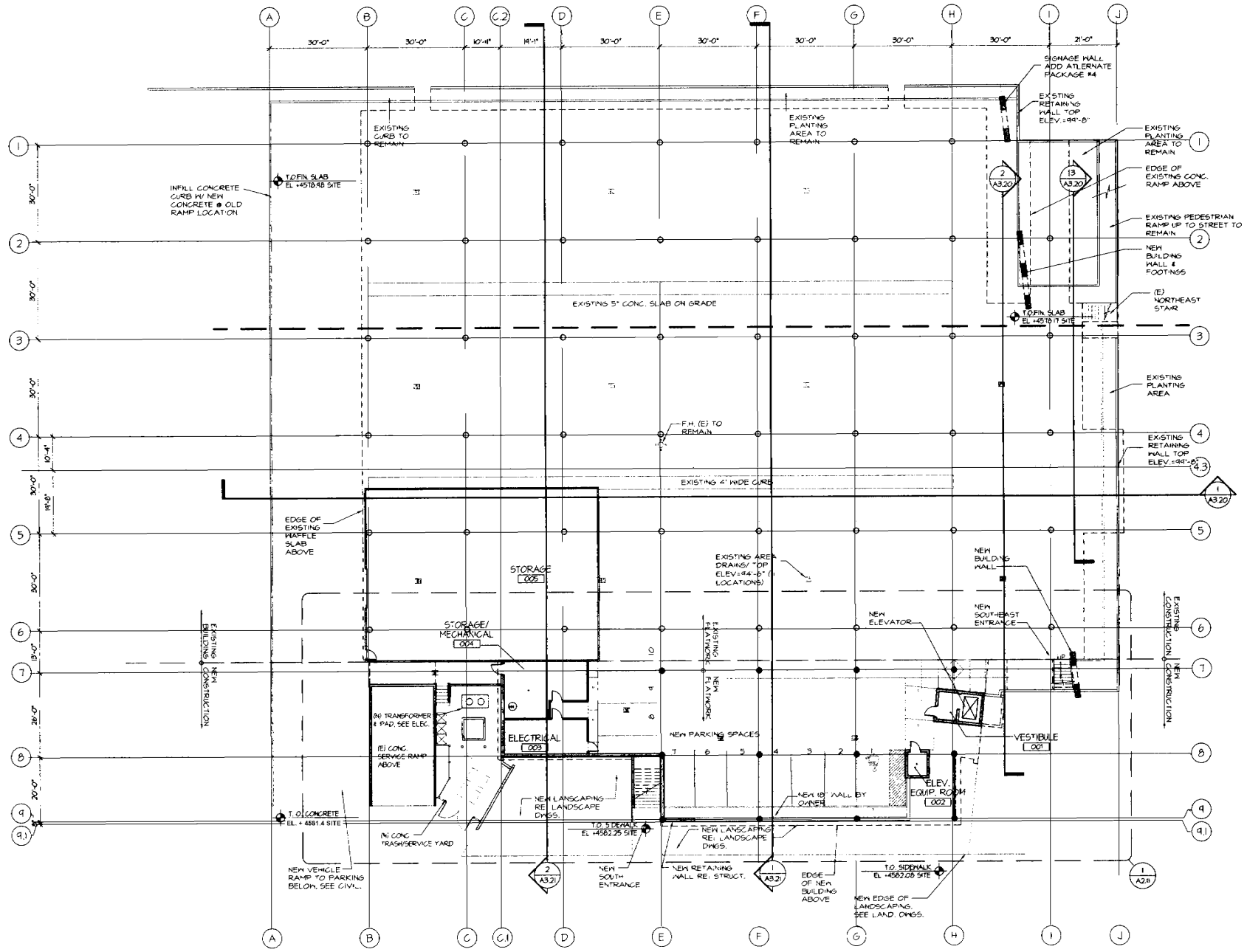

GENERAL NOTES:

1. INDICATES NEW MTL STUD CONSTRUCTION, SEE WALL TYPES-SHEET A9.80
2. INDICATES NEW CONC. BLOCK CONSTRUCTION, SEE WALL TYPES-SHEET A9.80
3. INDICATES EXISTING WALLS, SEE WALL TYPES - SHEET A9.80
4. INDICATES NEW CONCRETE CAST IN PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF GYP BD
   B. FACE OF CMU

1 PARKING LEVEL PLAN
SCALE: 1/16" = 1'-0"

NORTH

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FAX 308 0222

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PROGRESS SET	2-16-01
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

PARKING LEVEL PLAN

Drawn by:
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A2.10

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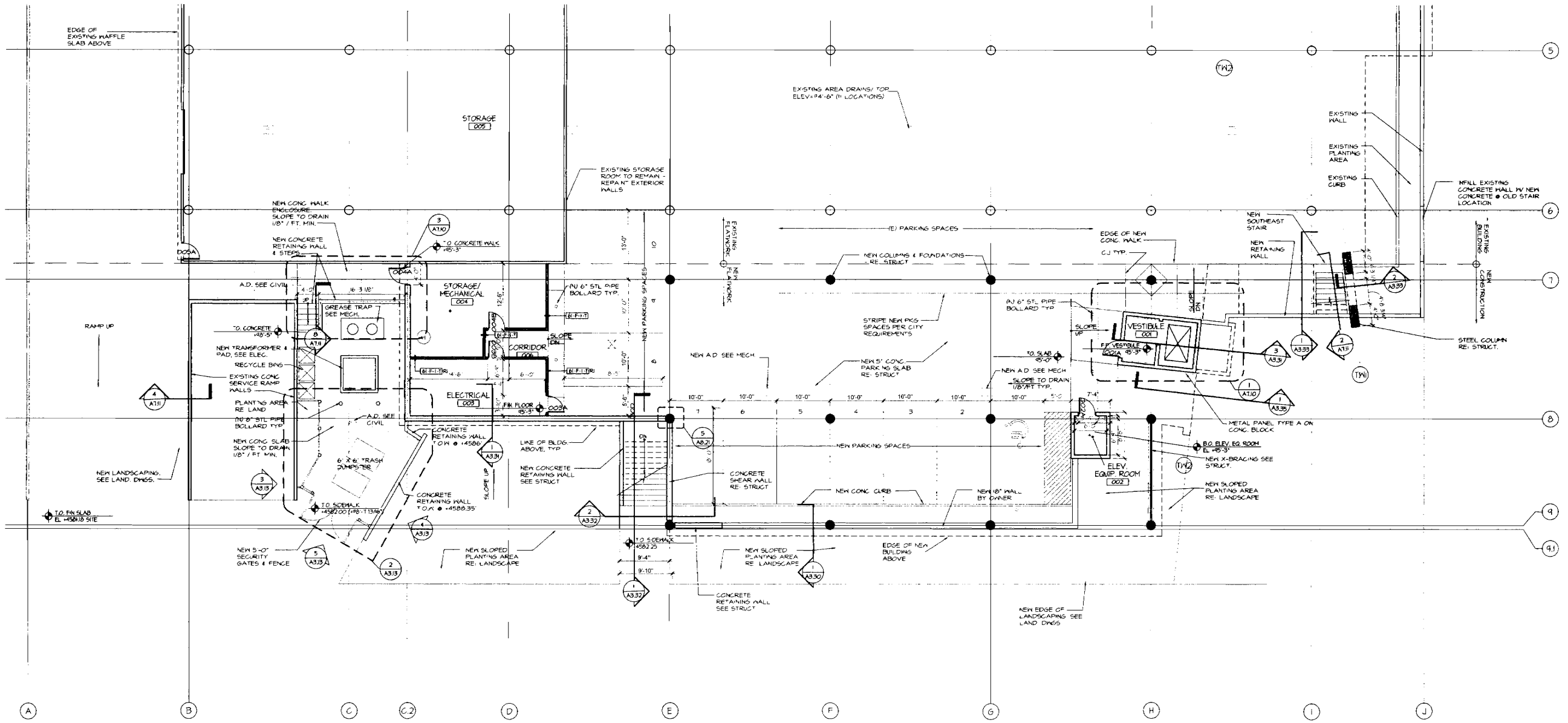

1 ENLARGED PARKING LEVEL PLAN (PARTIAL)

SCALE 1/8" = 1'-0"

NORTH

GENERAL NOTES:

1. INDICATES NEW MTL STUD CONSTRUCTION SEE WALL TYPES SHEET A7.60
2. INDICATES NEW CONC. BLOCK CONSTRUCTION SEE WALL TYPES SHEET A7.60
3. INDICATES EXISTING WALLS SEE WALL TYPES - SHEET A7.30
4. INDICATES NEW CONCRETE CAST IN PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF STR. BD
   B. FACE OF CMU

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	9-08-00
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PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

ENLARGED PARKING LEVEL PLAN

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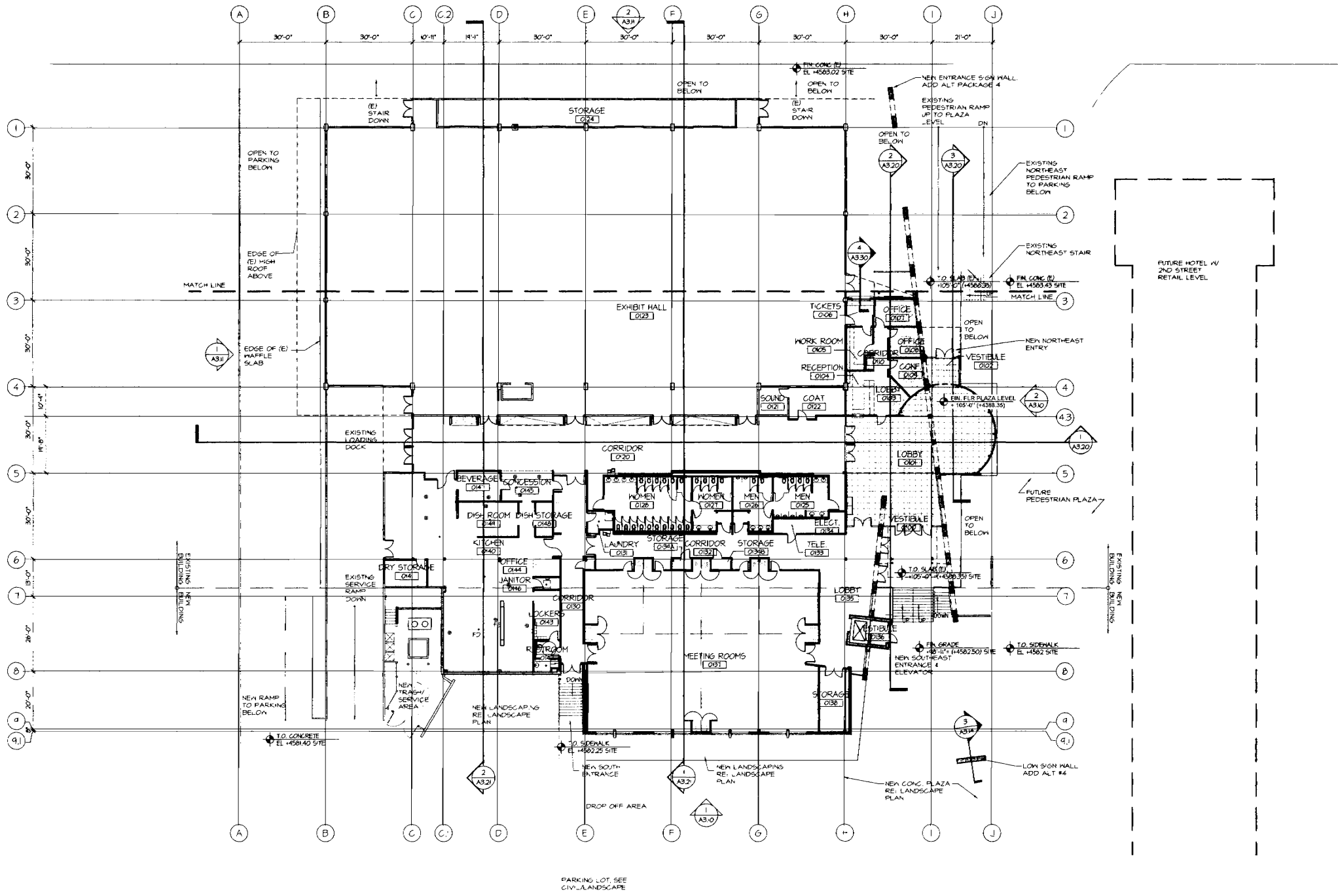

1 PLAZA LEVEL PLAN

SCALE: 1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. INDICATES NEW MTL STUD CONSTRUCTION, SEE WALL TYPES-SHEET A9.20
2. INDICATES NEW CONC. BLOCK CONSTRUCTION, SEE WALL TYPES-SHEET A9.20
3. INDICATES EXISTING WALLS, SEE WALL TYPES - SHEET A9.30
4. INDICATES NEW CONCRETE CAST IN PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF STP. BD
   B. FACE OF CMU

ISSUES/REVISIONS:	DATE:
SCHEMATIC DESIGN	11-08-00
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TWO RIVERS
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PLAZA LEVEL PLAN

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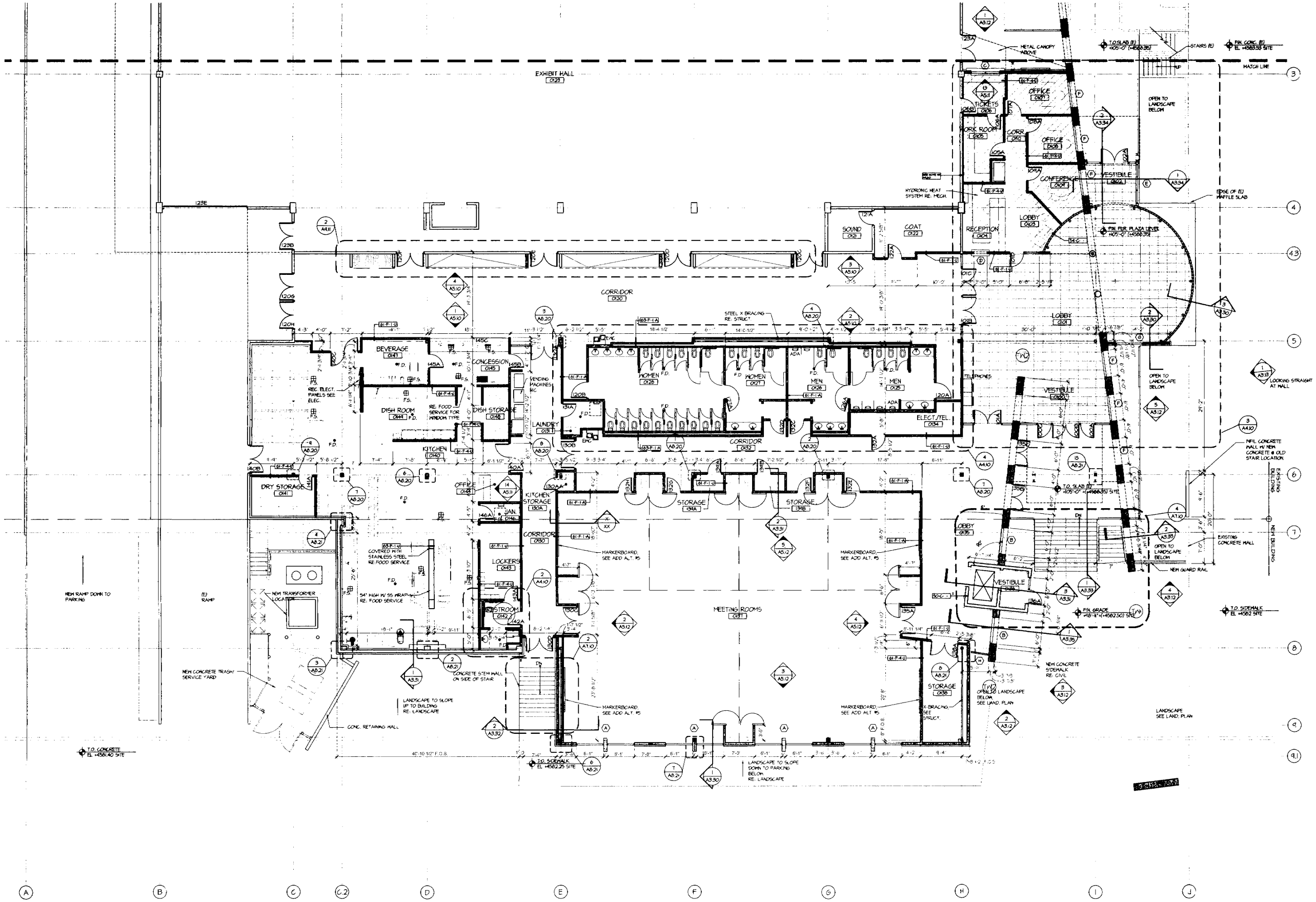

GENERAL NOTES:

1. INDICATES NEW MTL. STUD CONSTRUCTION, SEE WALL TYPES SHEET A9.0
2. INDICATES NEW CONC. BLOCK CONSTRUCTION, SEE WALL TYPES SHEET A9.0
3. INDICATES EXISTING WALLS, SEE WALL TYPES - SHEET A9.0
4. INDICATES NEW CONCRETE CAST 'N PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF GYP. BD
   B. FACE OF CMU

1 ENLARGED PLAZA LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No. 9924

ENLARGED
PLAZA LEVEL
FLOOR PLAN

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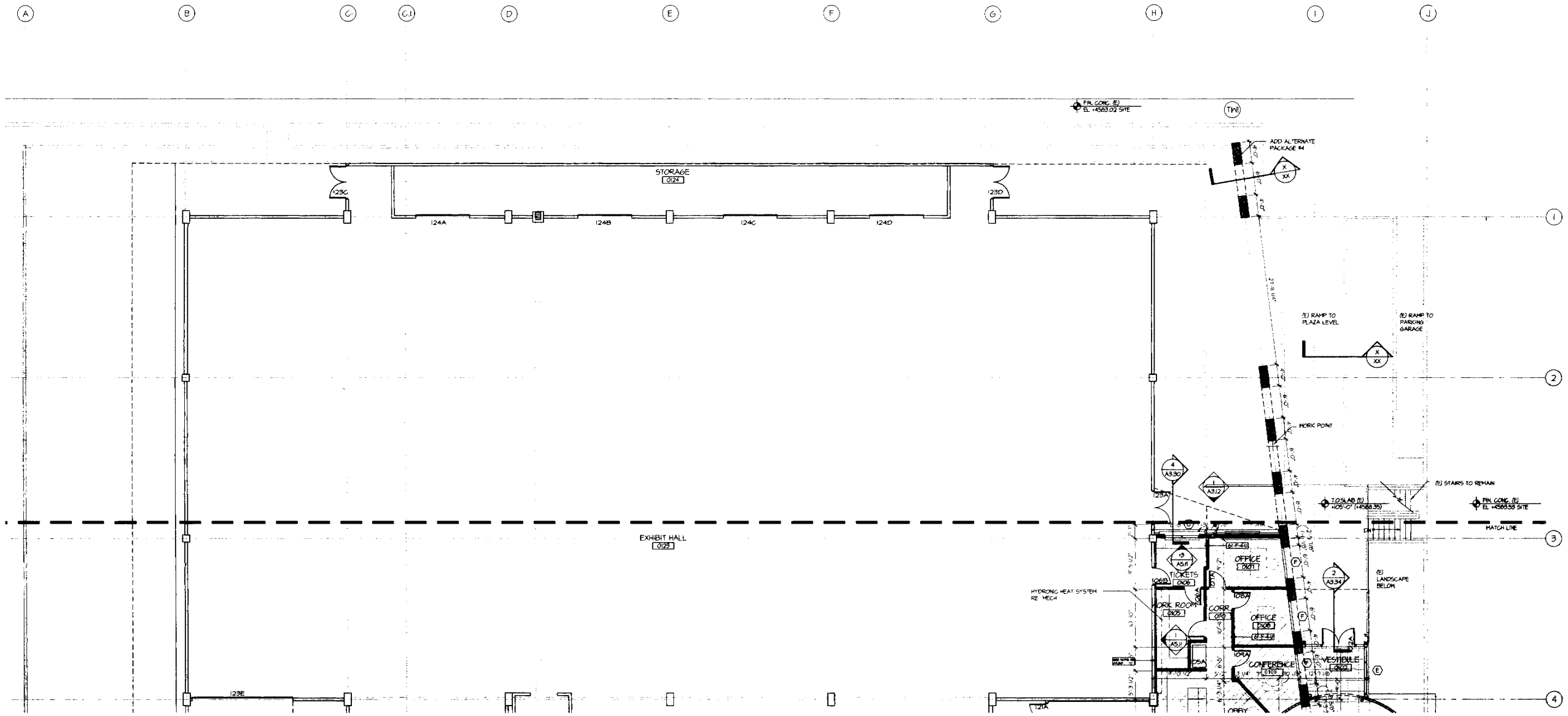

1 ENLARGED PLAZA LEVEL FLOOR PLAN - PARTIAL

SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. INDICATES NEW MTL. STUD CONSTRUCTION. SEE WALL TYPES-SHEET A9.10
2. INDICATES NEW CONC. BLOCK CONSTRUCTION. SEE WALL TYPES-SHEET A9.10
3. INDICATES EXISTING WALLS SEE WALL TYPES - SHEET A9.10
4. INDICATES NEW CONCRETE CAST 'N PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF GYP. BD
   B. FACE OF CMU

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PROGRESS SET	2-16-01
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No. 9924

ENLARGED PLAZA LEVEL FLOOR PLAN PARTIAL

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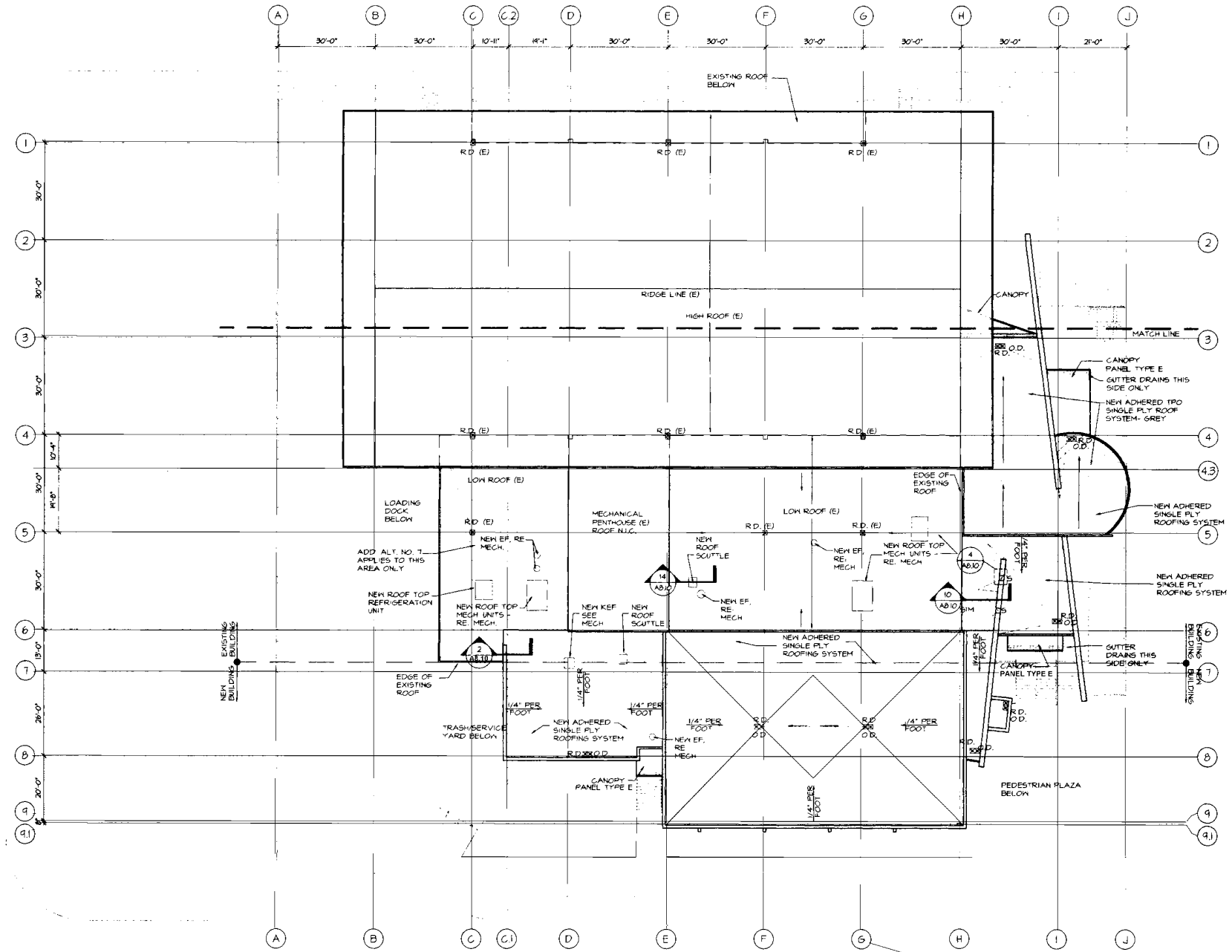

LEGEND

- ROOF MOUNTED EQUIPMENT SEE MECHANICAL DRAWINGS
- R.D. O.D. — ROOF DRAIN OR OVERFLOW DRAIN SEE MECHANICAL DRAWINGS
- S — THROUGH-WALL SCUPPER
- TAPERED INSULATION CRICKET TO PROVIDE MIN. 1/4" PER FOOT SLOPE.
- AREAS TO RECEIVE EPDM ROOFING

1 ROOF LEVEL PLAN
SCALE: 1/16" = 1'-0"

NORTH

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TWO RIVERS
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ROOF LEVEL PLAN

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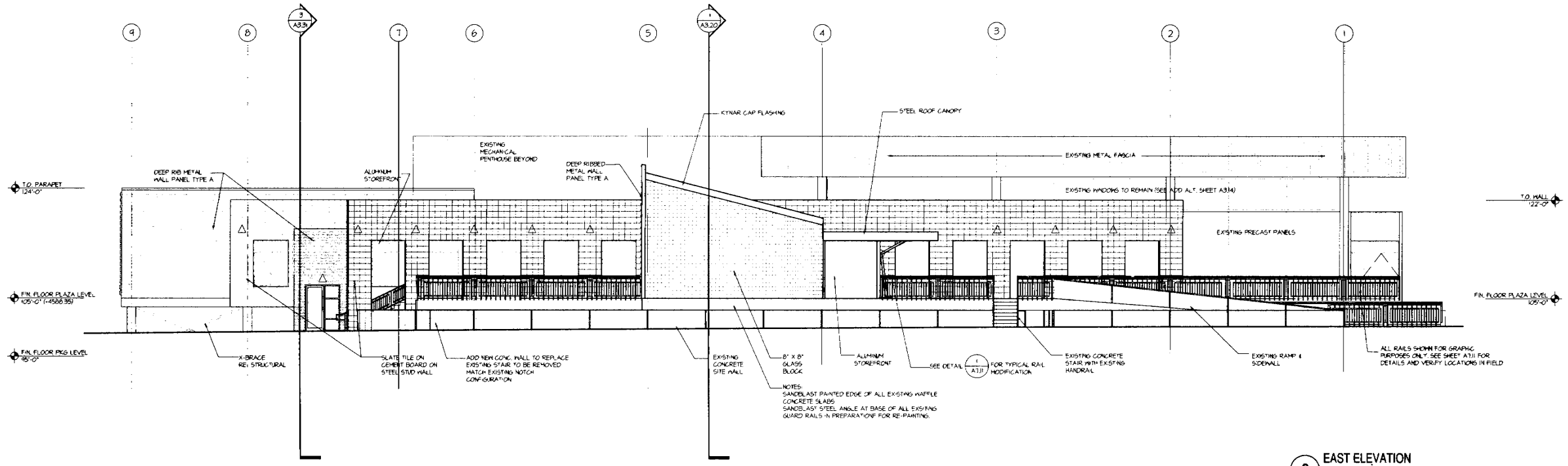
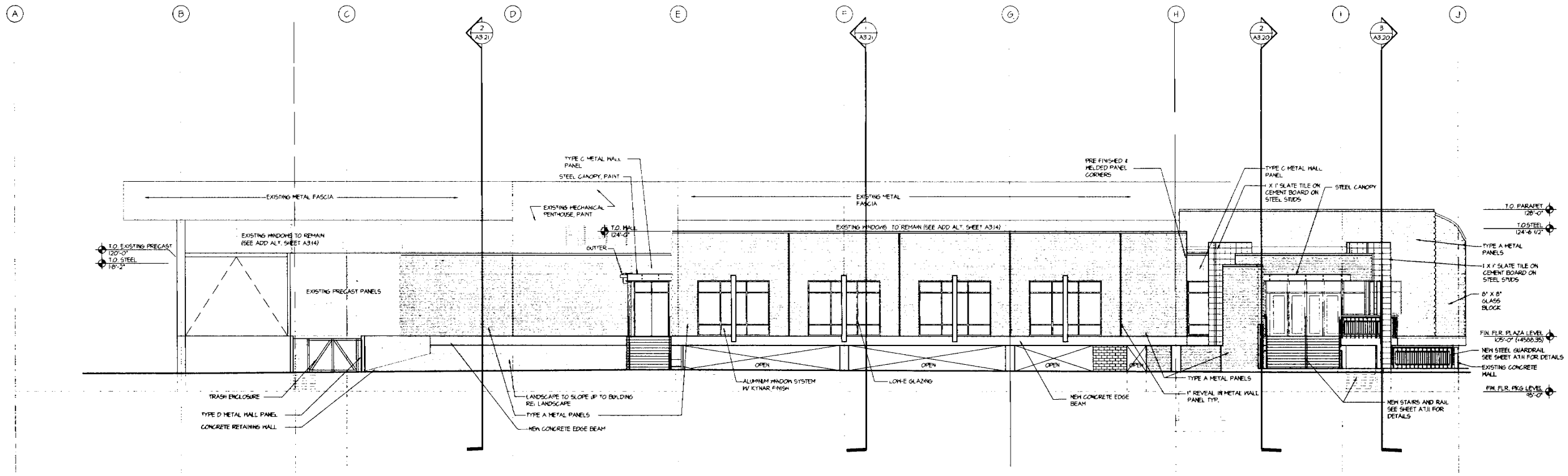


2 EAST ELEVATION

SCALE: 1/8" = 1'-0"



1 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

ELEVATIONS

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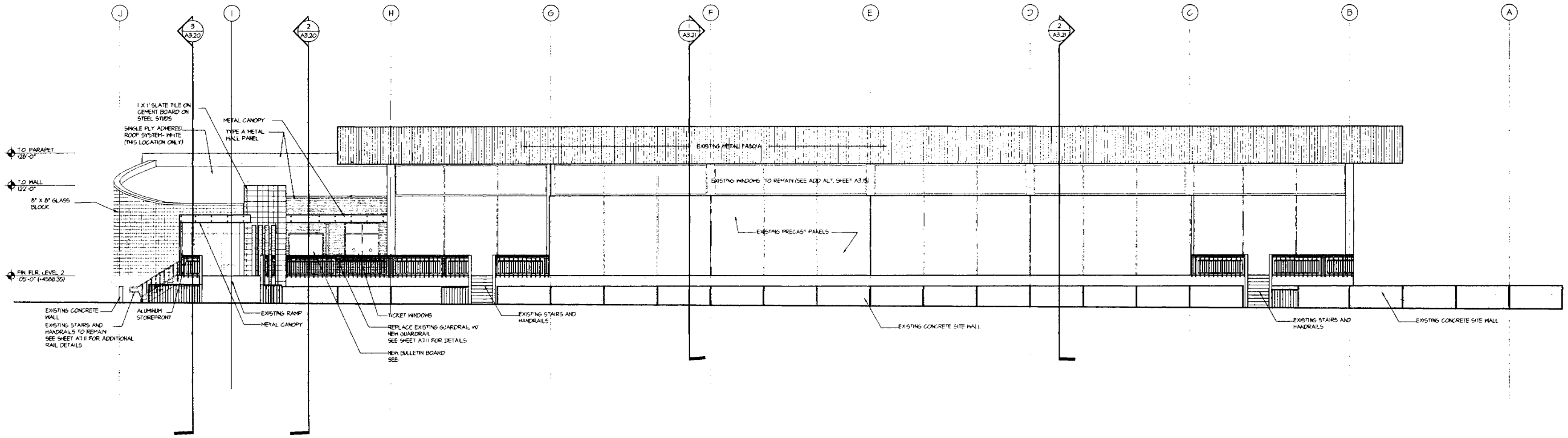
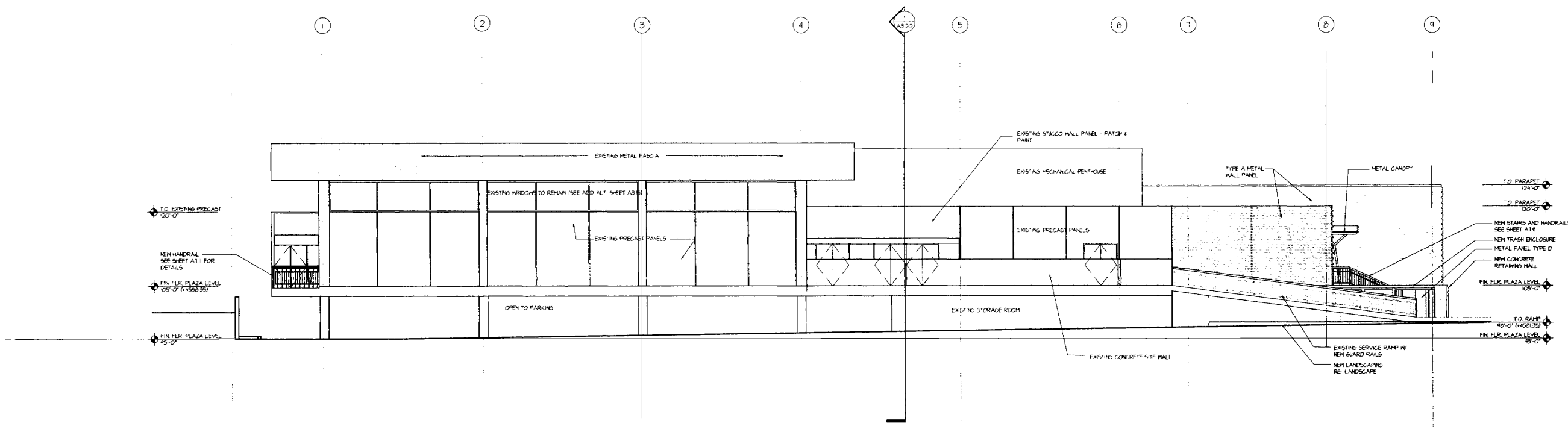


2 NORTH ELEVATION

SCALE 1/8" = 1'-0"



1 WEST ELEVATION

SCALE 1/8" = 1'-0"

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Fax 308 1222

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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

ELEVATIONS

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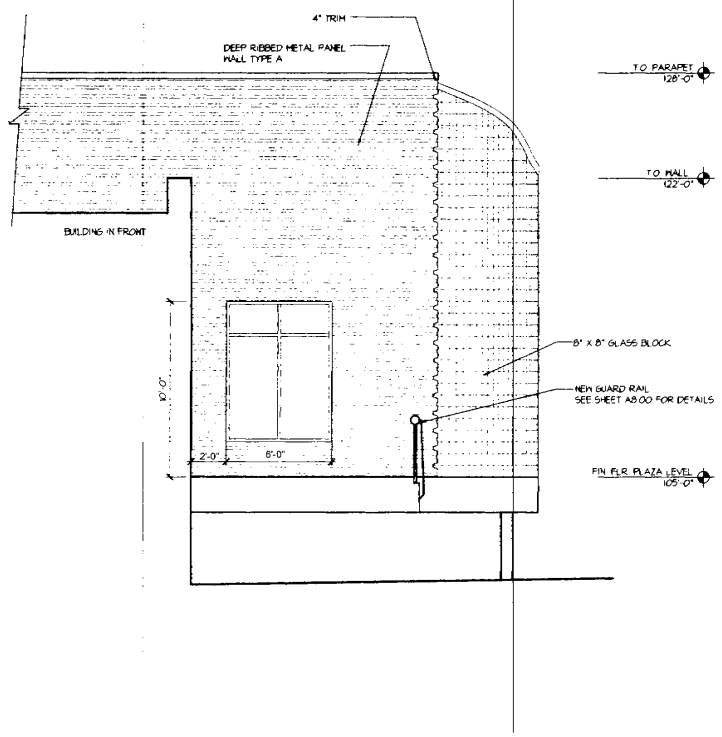
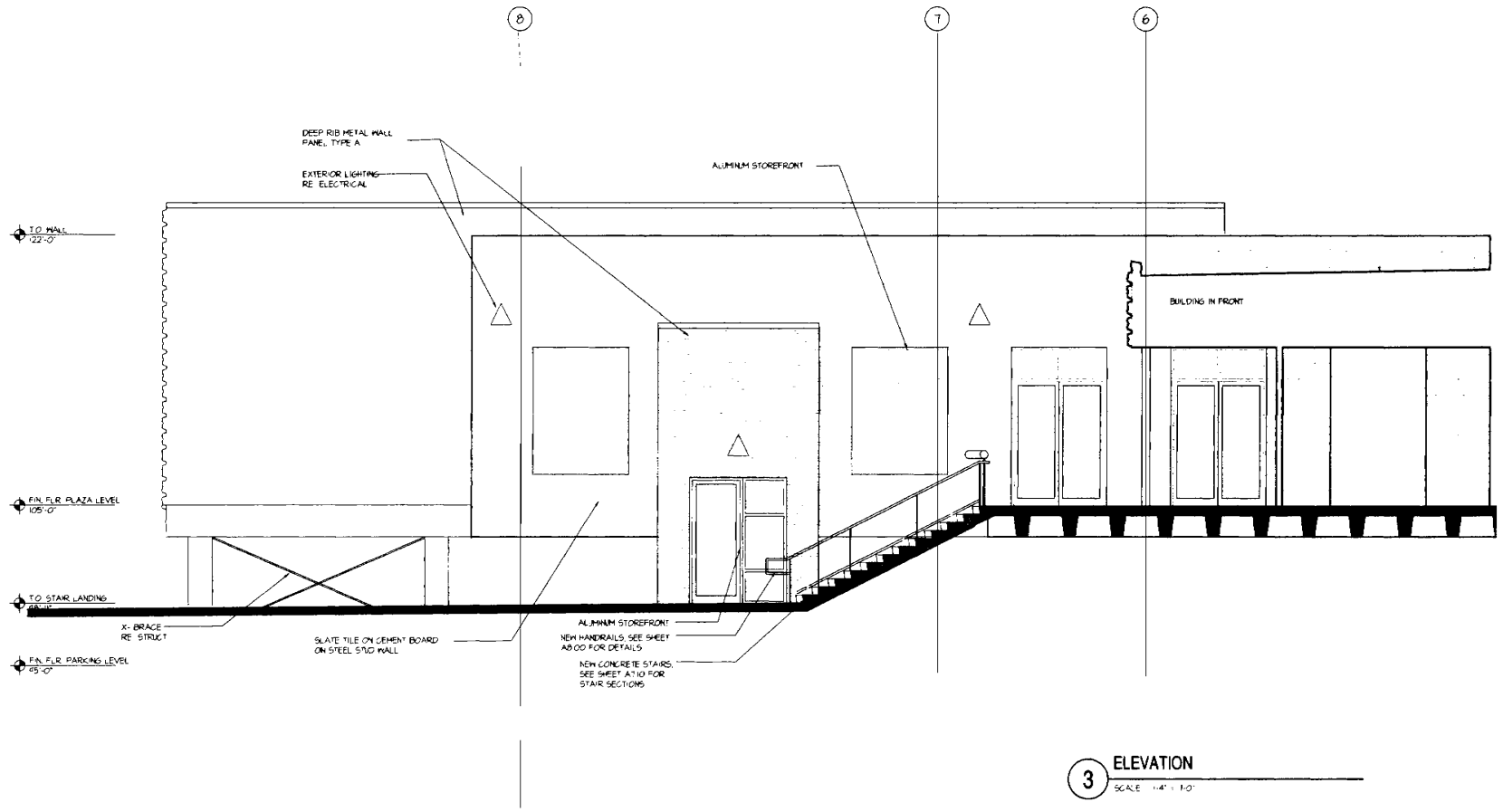
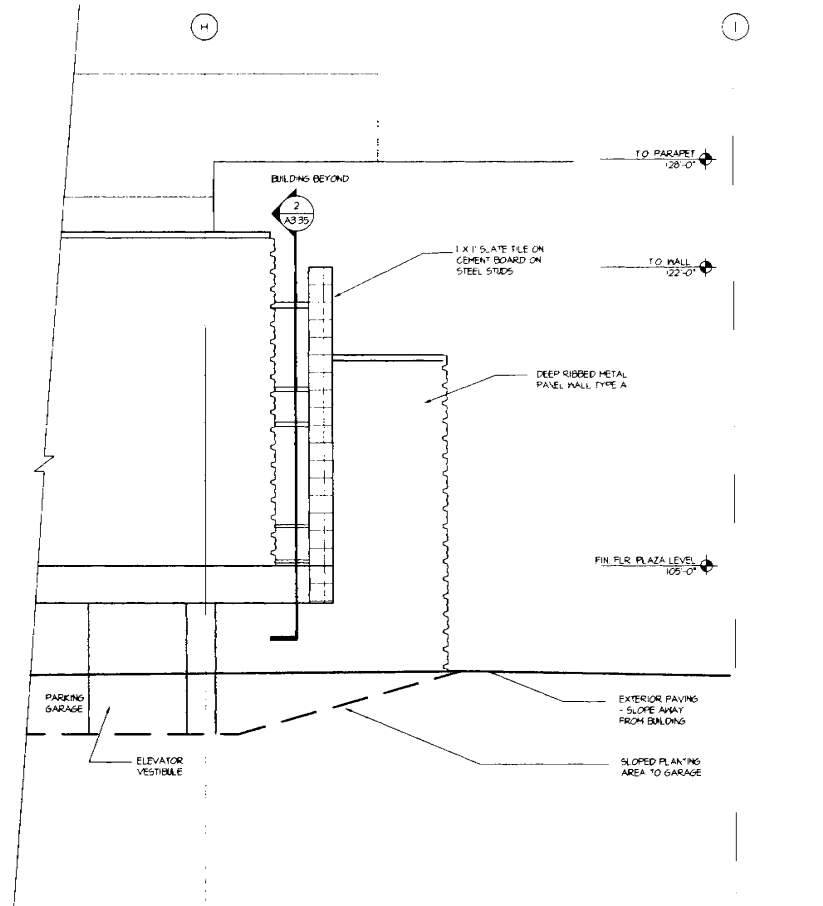


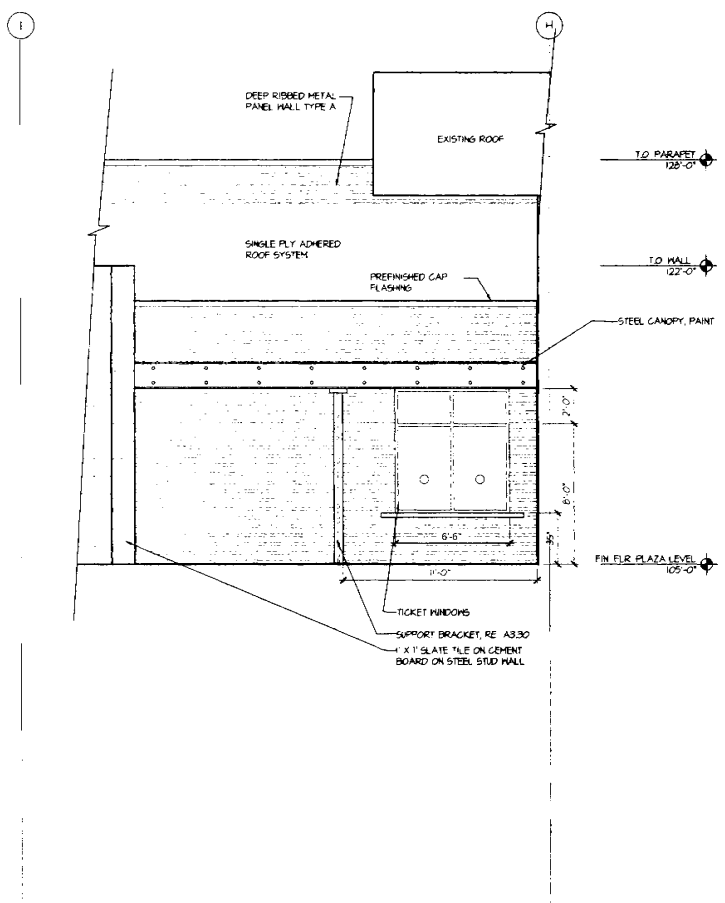
4 ELEVATION
SCALE 1/4" = 1'-0"



3 ELEVATION
SCALE 1/4" = 1'-0"



2 ELEVATION
SCALE 1/4" = 1'-0"



1 ELEVATION AT TICKET WINDOW
SCALE: 1/4" = 1'-0"

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A Professional Corporation for Architecture
321 Main Street, Suite 200, Denver, Colorado 80205
303 308 9080
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CONSTRUCTION DOCUMENTS	3-6-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

ENLARGED ELEVATIONS

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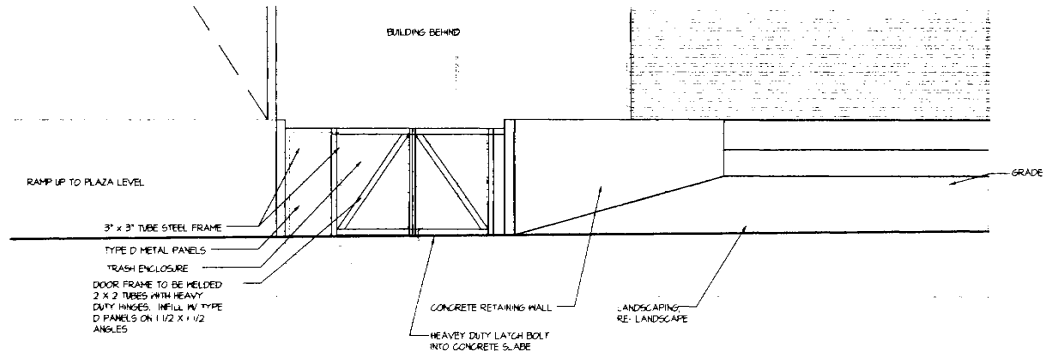
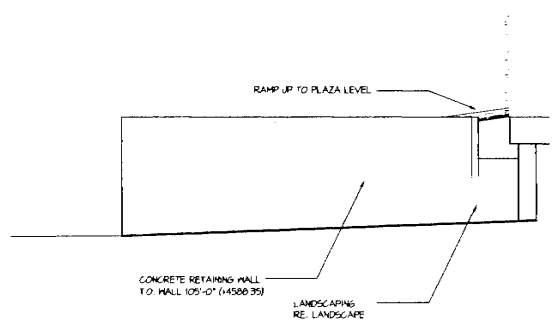
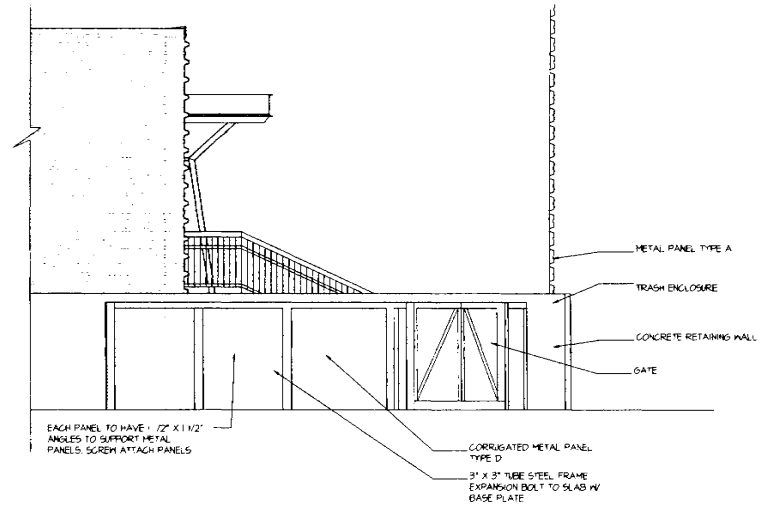


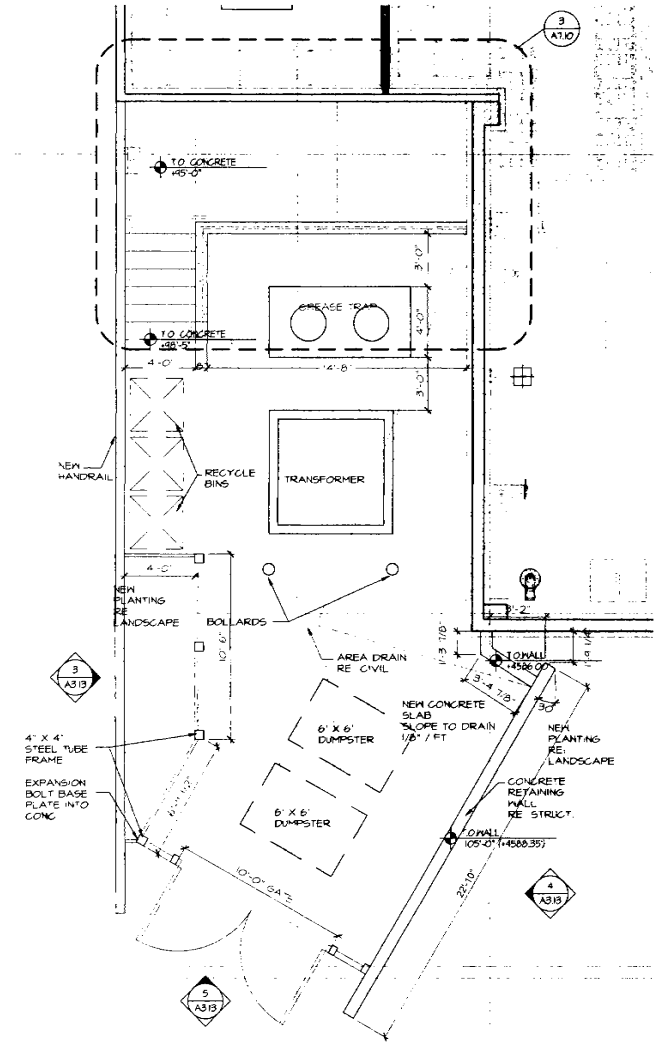
5 ELEVATION OF TRASH ENCLOSURE
SCALE: 1/4" = 1'-0"



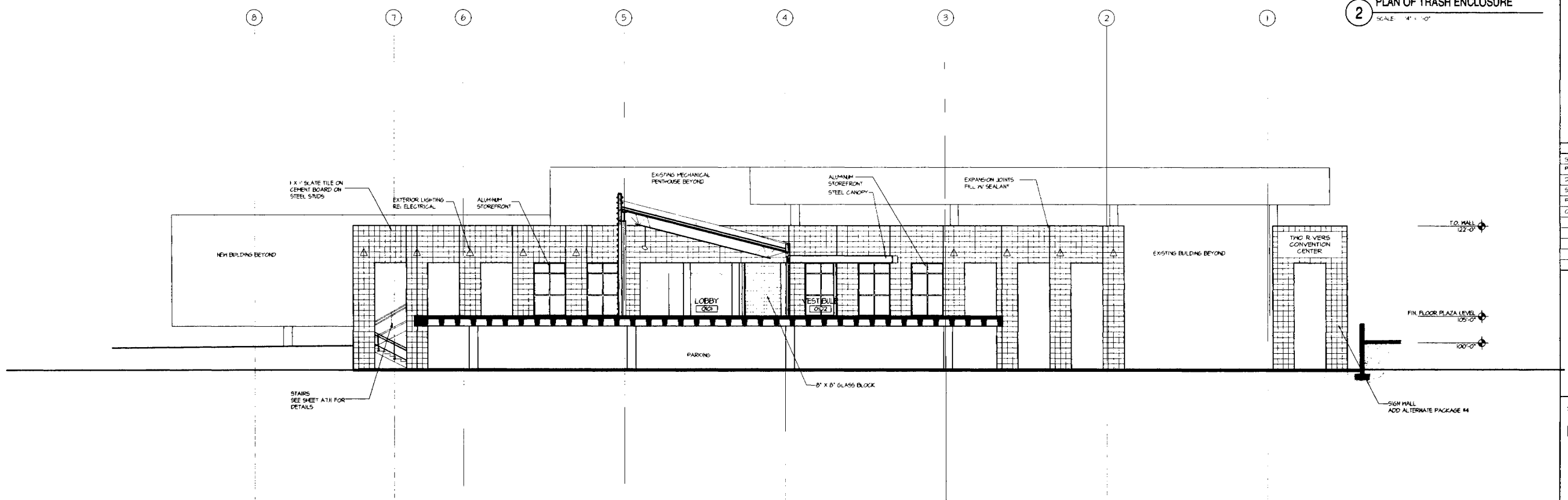
4 ELEVATION OF TRASH ENCLOSURE
SCALE: 1/4" = 1'-0"



3 ELEVATION OF TRASH ENCLOSURE
SCALE: 1/4" = 1'-0"



2 PLAN OF TRASH ENCLOSURE
SCALE: 1/4" = 1'-0"



1 ELEVATION OF FRONT WALL (LOOKING STRAIGHT ON)
SCALE: 1/8" = 1'-0"

SINK COMBS DETHLEFS
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1275 Kennet Street, Suite 200, Boulder, Colorado 80305
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FAX 306 8022

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CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No. 9924

ENLARGED ELEVATIONS

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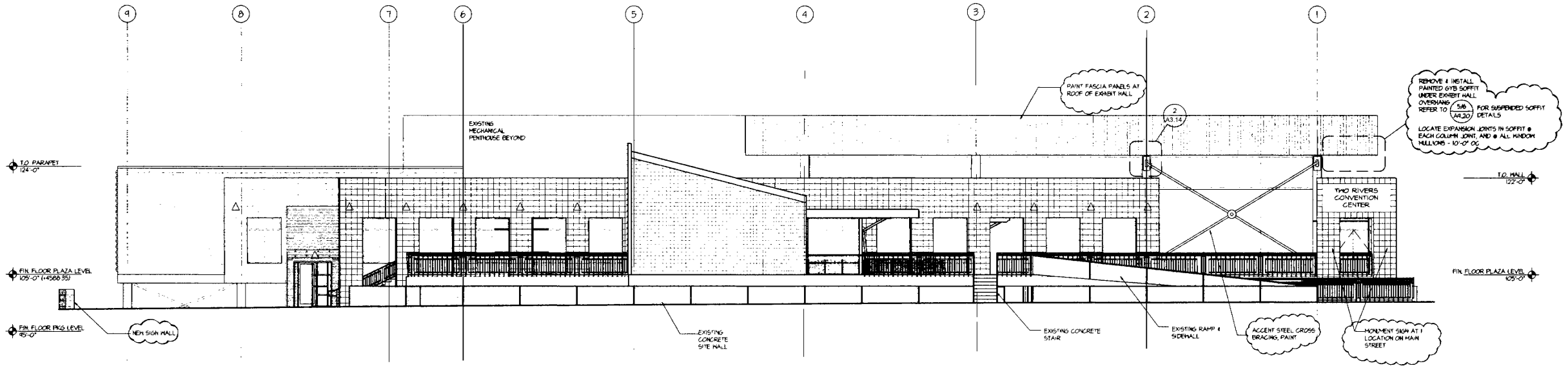
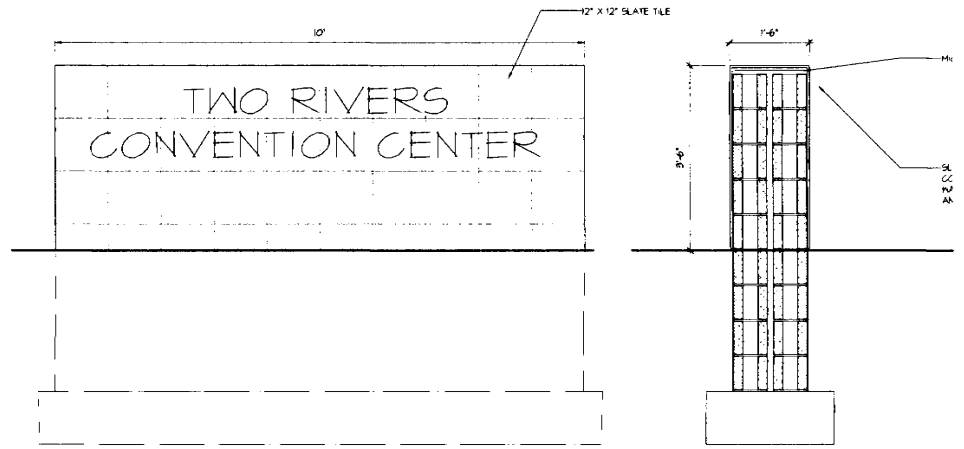
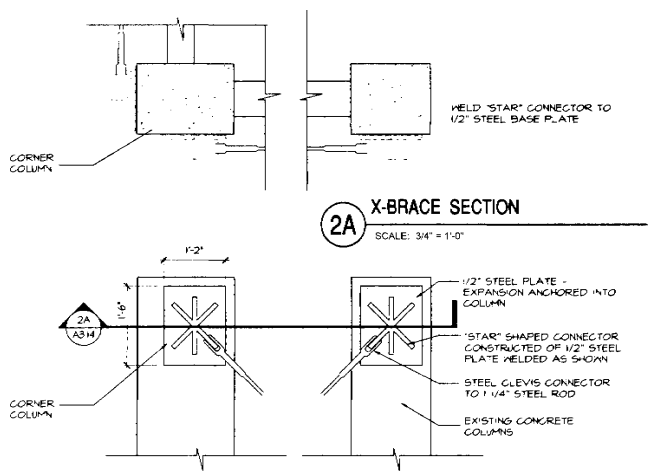


4 ELEVATION ADD ALTERNATE (EAST)
SCALE: 1/8" = 1'-0"

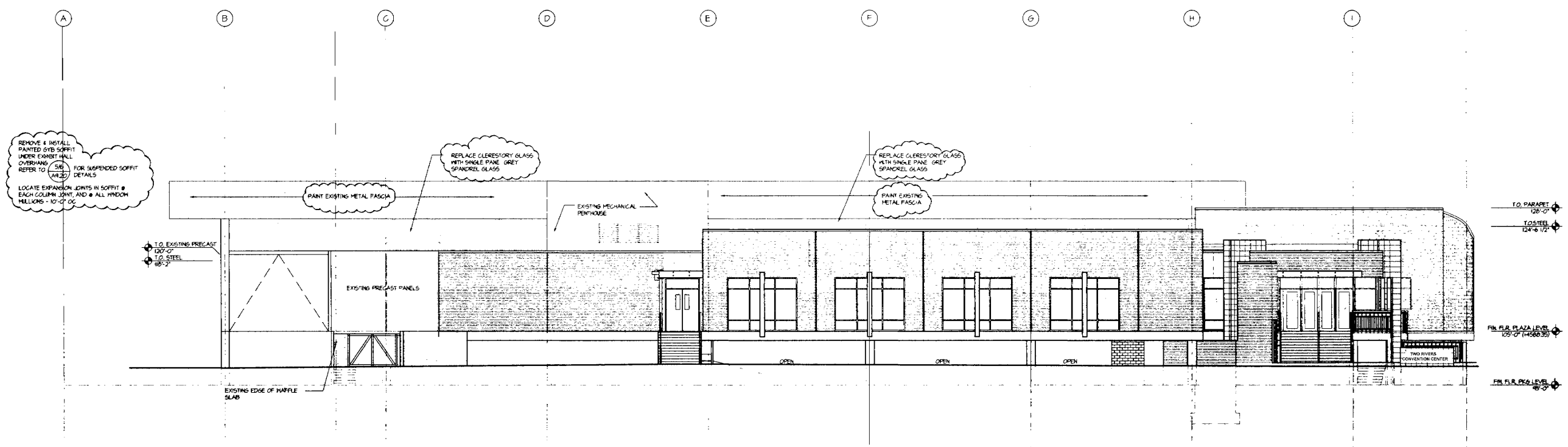


3 SIGN WALL ELEVATION & SECTION
SCALE: 3/4" = 1'-0"



2A X-BRACE SECTION
SCALE: 3/4" = 1'-0"

2 X-BRACE ELEVATION
SCALE: 3/4" = 1'-0"



GENERAL NOTES ADD ALTERNATE #4
1) PAINT ALL EXISTING EXPOSED CONCRETE COLUMNS
2) PAINT ALL EXPOSED METAL & WOOD ON EXTERIOR OF BUILDING, UNO-INCLUDING BUT NOT LIMITED TO CONDUIT, PIPING, GAS PIPING, FLASHING, MEGA FLUES & DUCTS, LINTELS, MULLION METAL FRAMING AND DOORS, STEEL AND MECHANICAL EQUIPMENT

1 ELEVATION ADD ALTERNATE (SOUTH)
SCALE: 1/8" = 1'-0"

ISSUES/REVISIONS:	Date:
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No 9924

EXTERIOR ELEVATIONS ADD ALTERNATE

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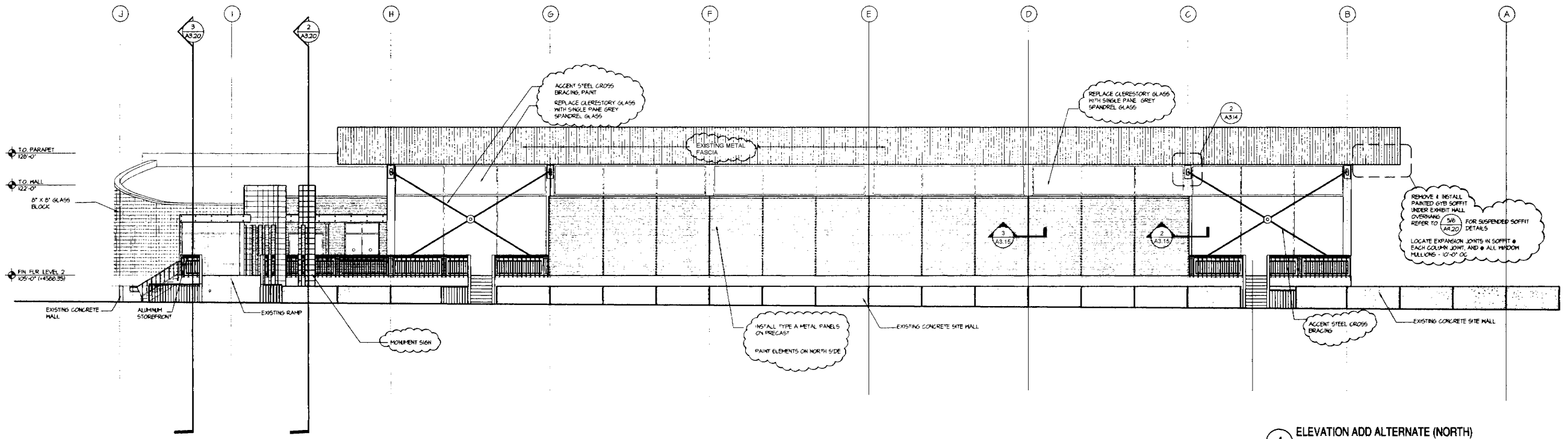
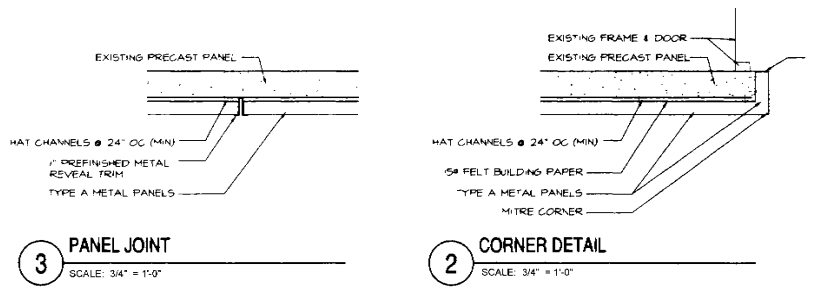
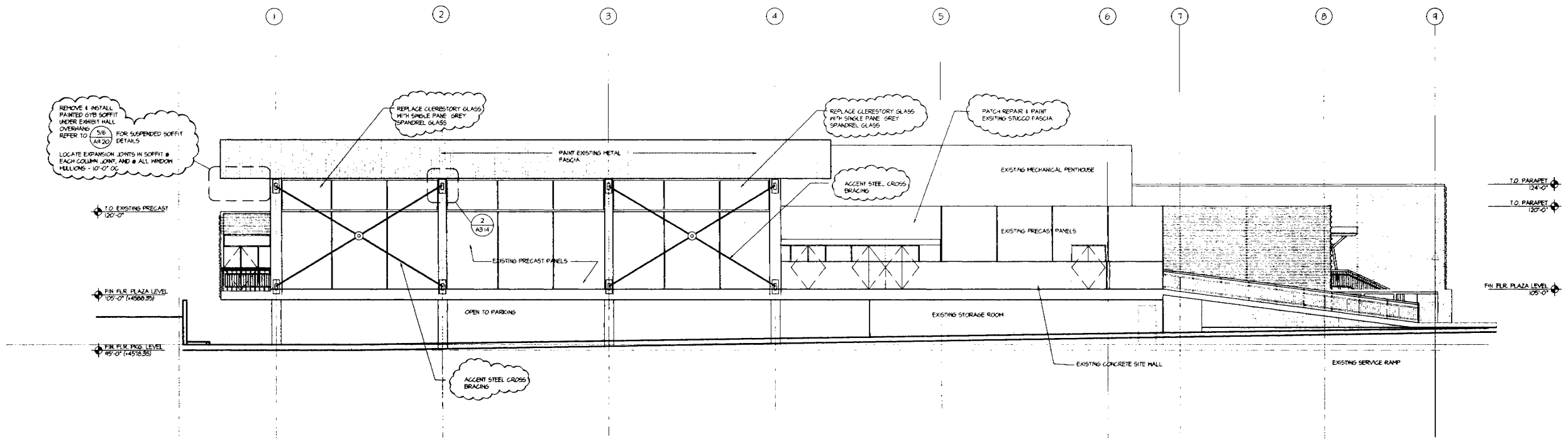


4 ELEVATION ADD ALTERNATE (NORTH)
SCALE: 1/8" = 1'0"



3 PANEL JOINT
SCALE: 3/4" = 1'-0"

2 CORNER DETAIL
SCALE: 3/4" = 1'-0"



GENERAL NOTES: ADD ALTERNATE #4
1) PAINT ALL EXISTING EXPOSED CONCRETE COLUMNS
2) PAINT ALL EXPOSED METAL & WOOD ON EXTERIOR OF BUILDING.
3) INCLUDING BUT NOT LIMITED TO CONDUIT, PIPING, GAS PIPING, FLASHING, MECH. FLUES & DUCTS, LINTELS, HOLLOW METAL FRAMING AND DOORS, STEEL, AND MECHANICAL EQUIPMENT

1 ELEVATION ADD ALTERNATE (WEST)
SCALE: 1/8" = 1'-0"

SINK COMBS DETHLEFS
A Professional Corporation for Architecture
1743 Wazee Street, Suite 360, Denver, Colorado 80202
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FAX 308 0202

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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

EXTERIOR ELEVATIONS ADD ALTERNATE

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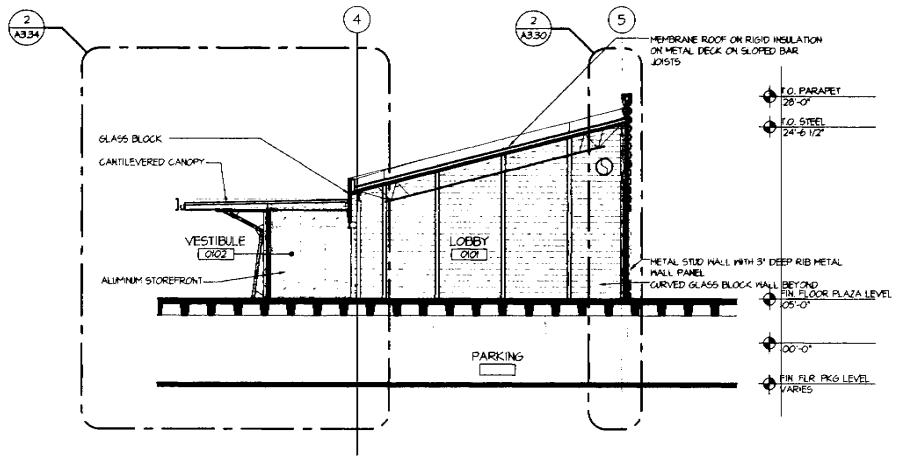
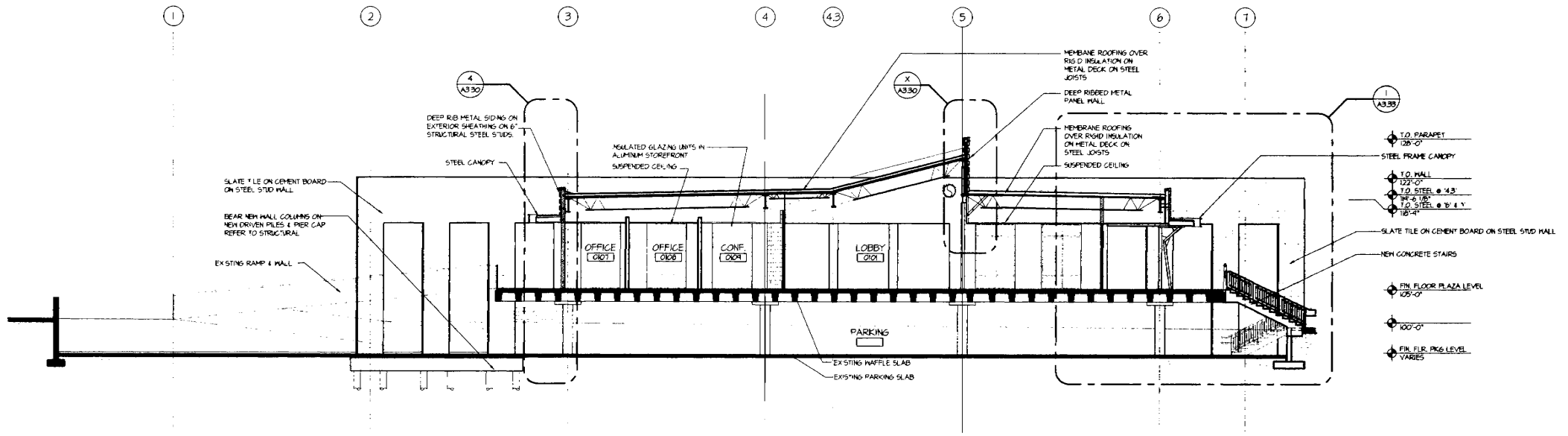
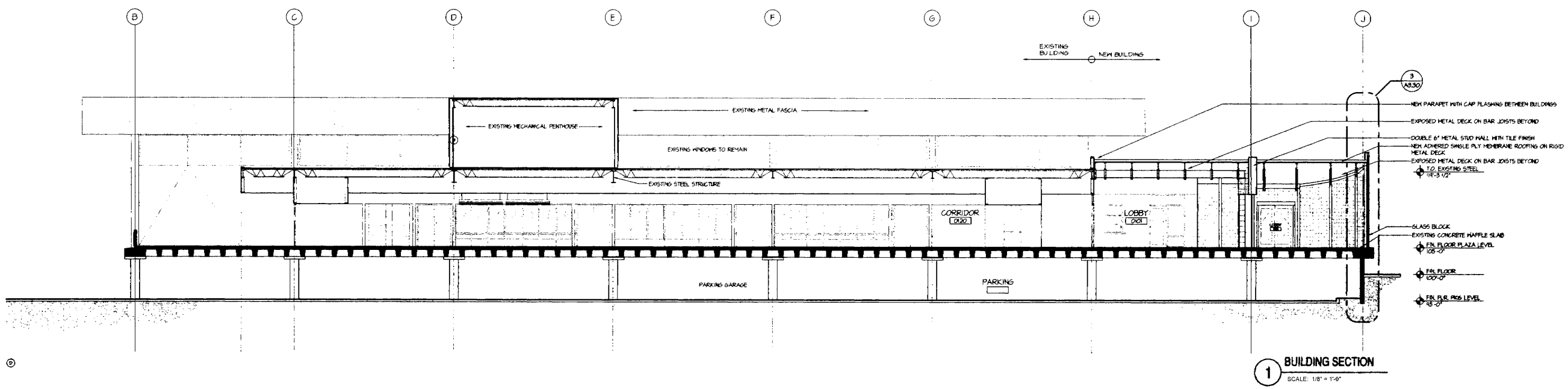


3 BUILDING SECTION
SCALE 1/8" = 1'-0"



2 BUILDING SECTION
SCALE 1/8" = 1'-0"



1 BUILDING SECTION
SCALE: 1/8" = 1'-0"

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PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-5-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No 9924

BUILDING SECTIONS

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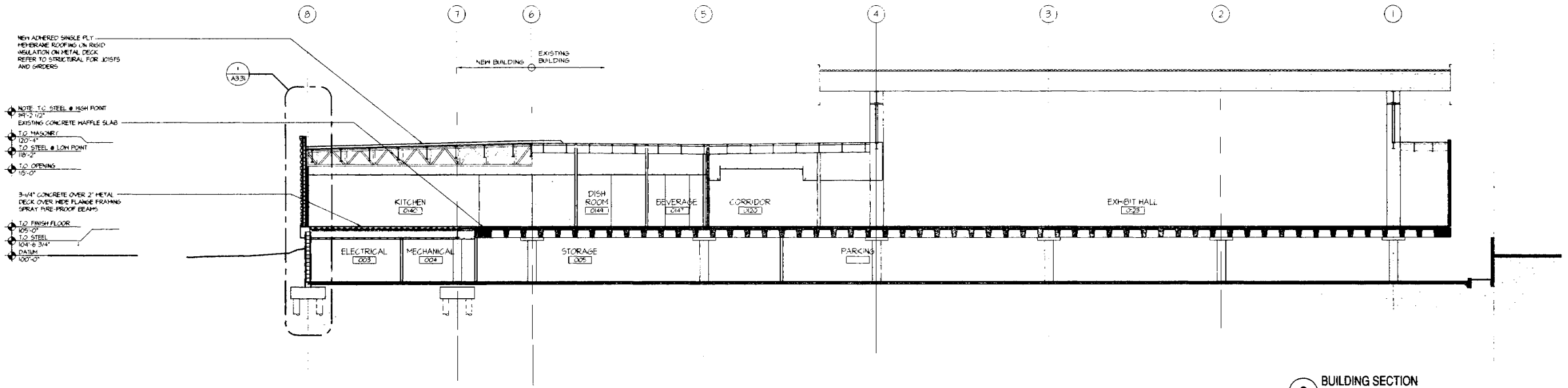
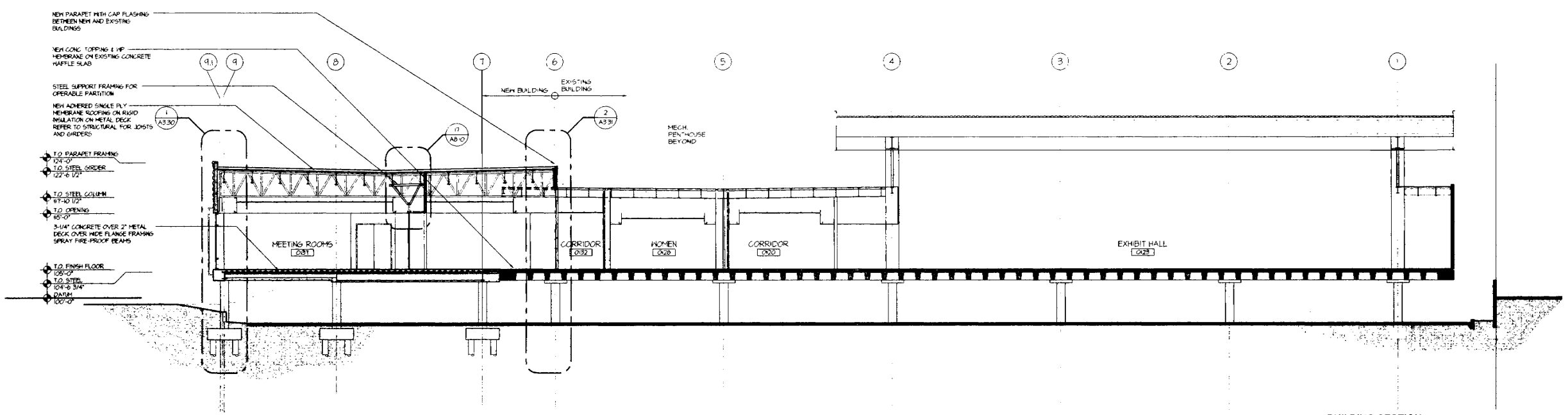


2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



1 BUILDING SECTION
SCALE: 1/8" = 1'-0"

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PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-5-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No 9924

BUILDING SECTIONS

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A3.21

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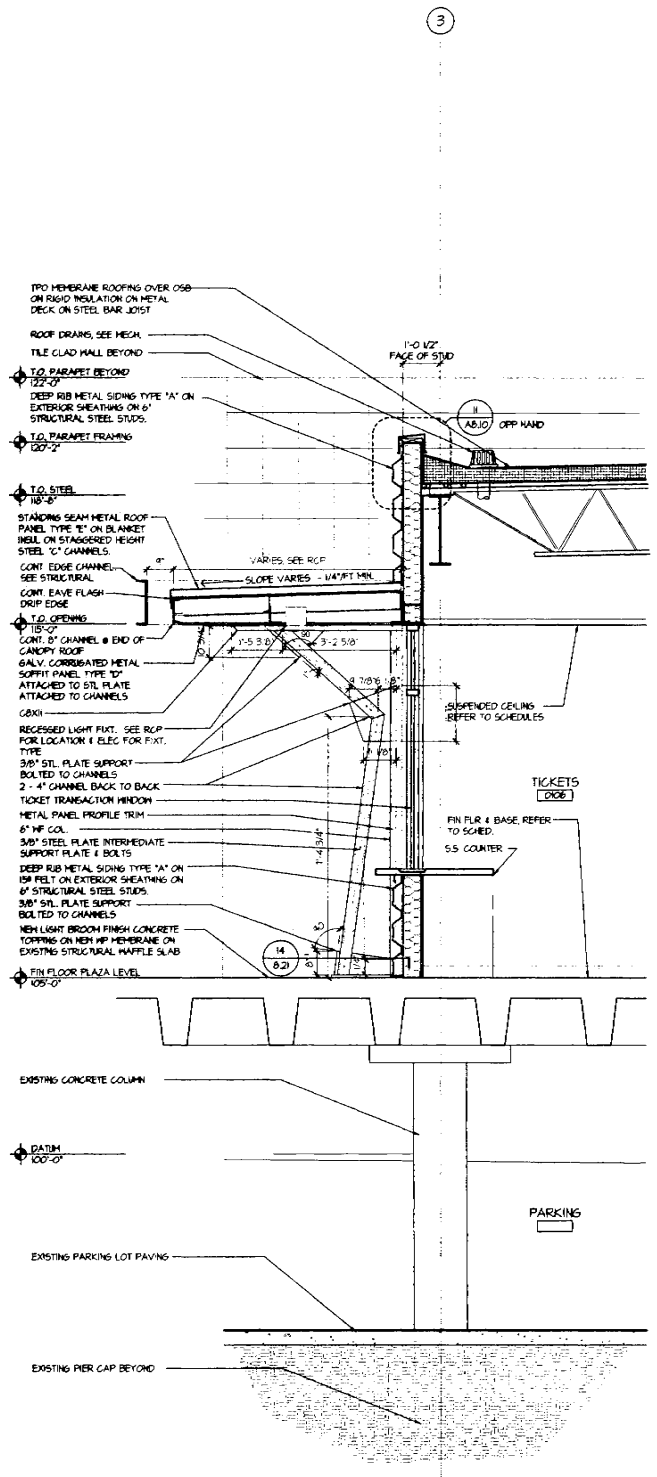
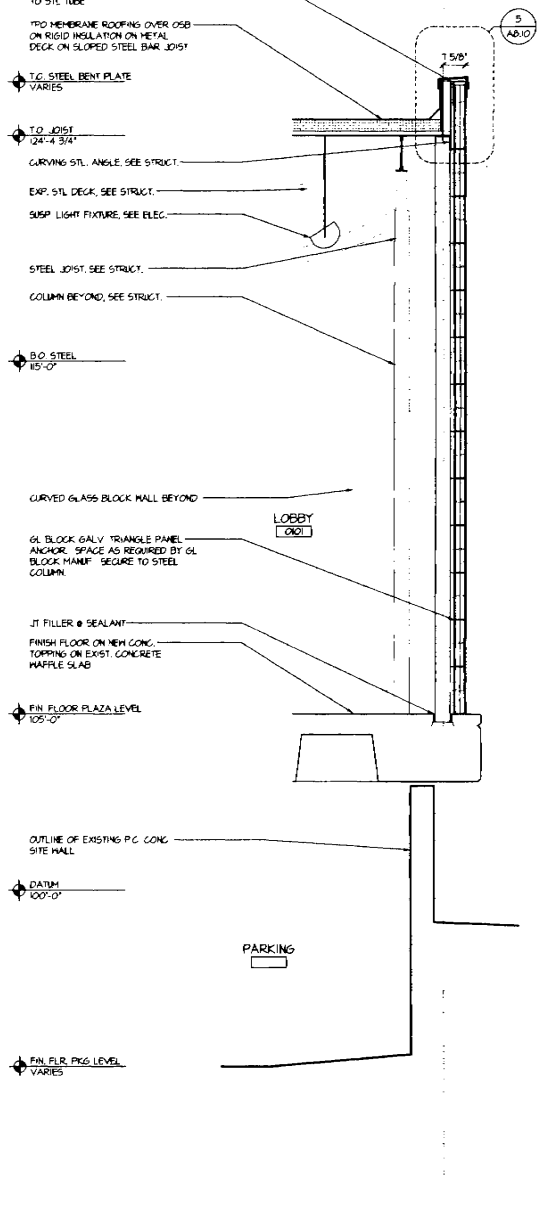
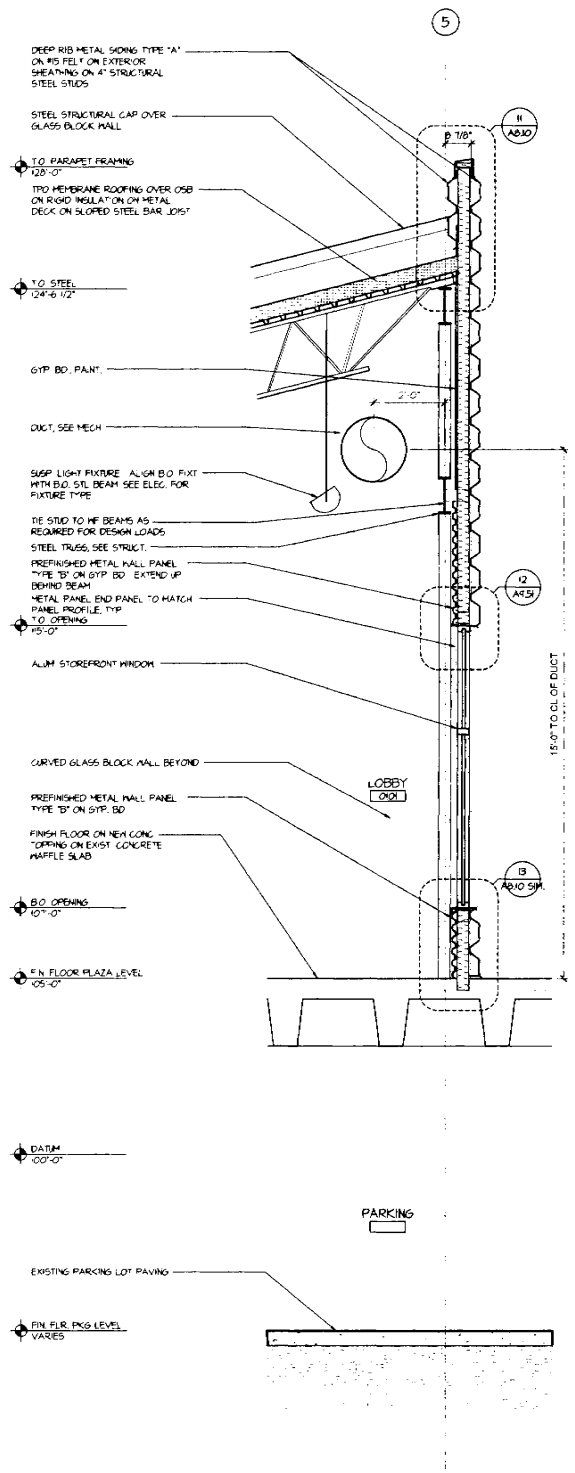


4 WALL SECTION
SCALE: 1/2" = 1'-0"



3 WALL SECTION
SCALE: 1/2" = 1'-0"



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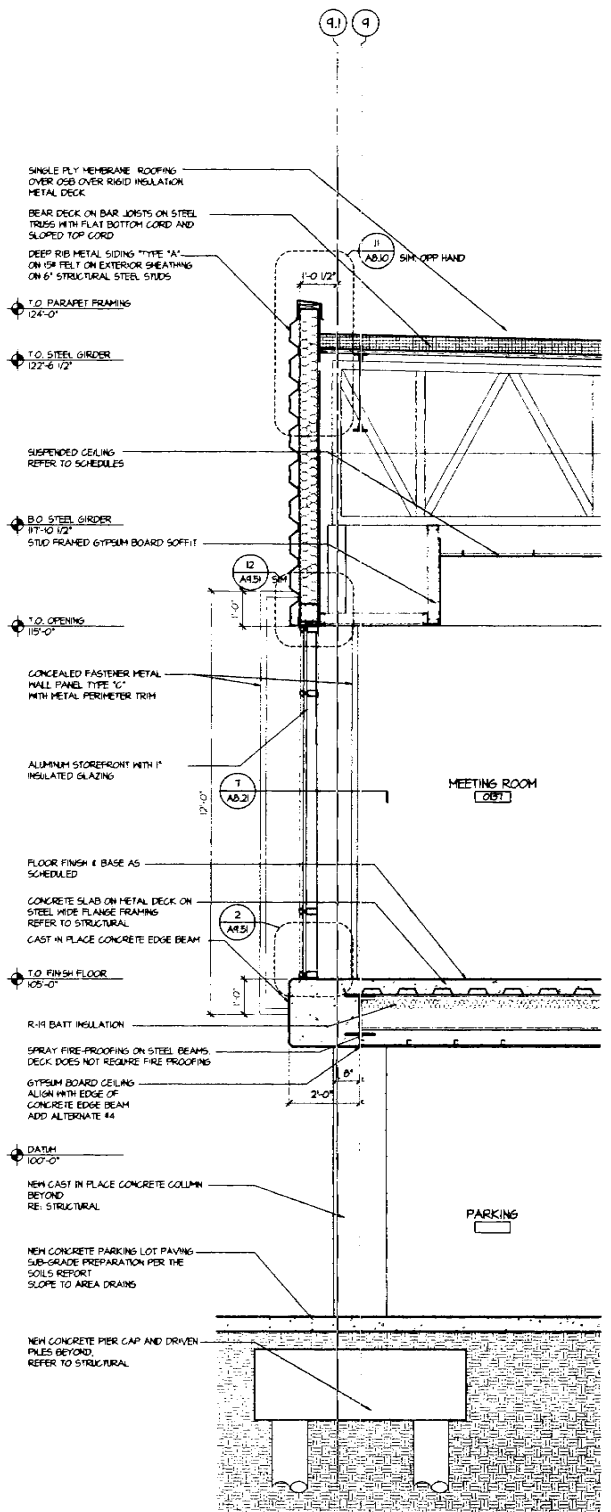

1 WALL SECTION
SCALE: 1/2" = 1'-0"

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PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
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PROGRESS SET	2-16-01
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

WALL SECTIONS

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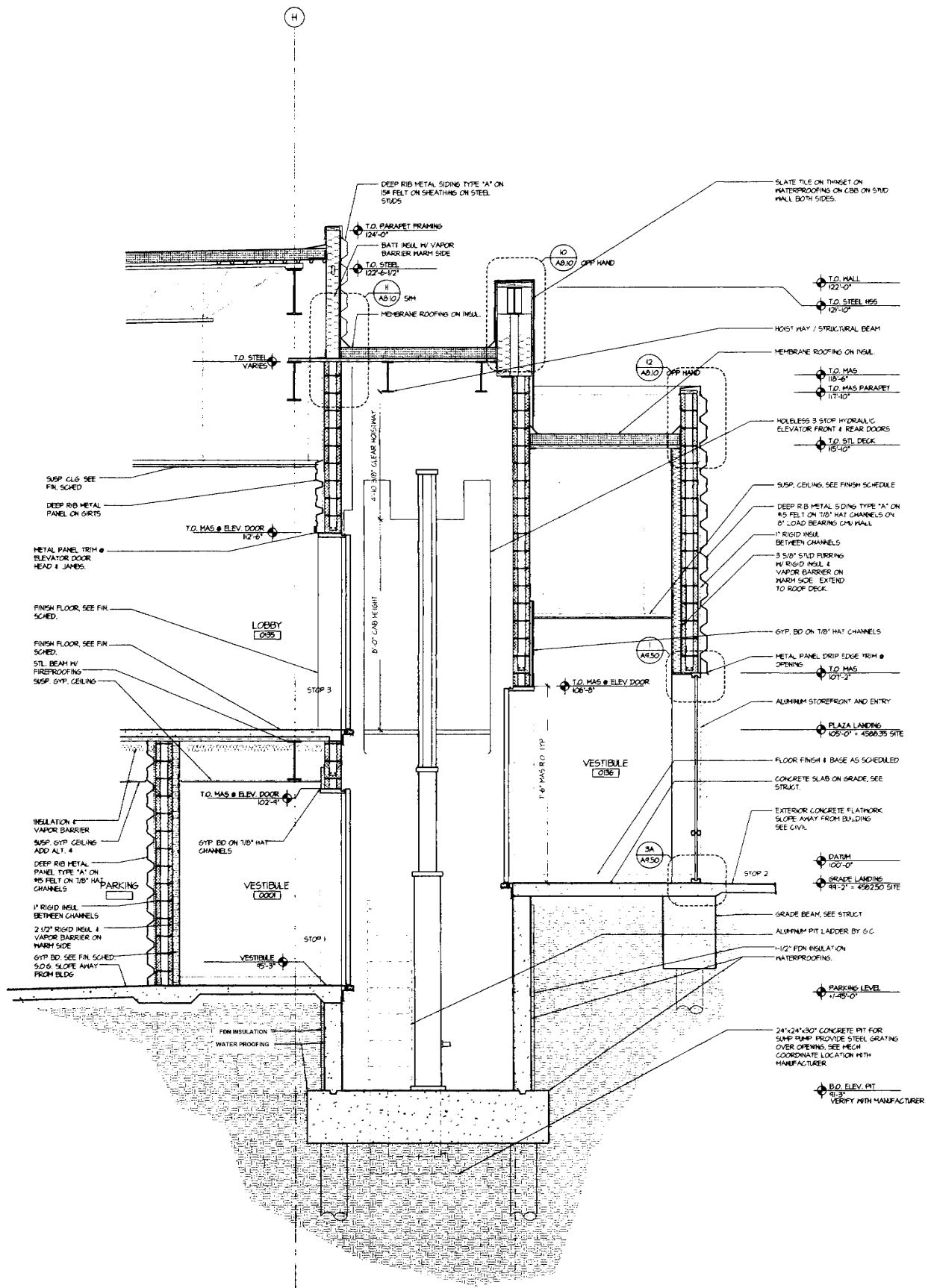

3 **WALL SECTION @ ELEVATOR**
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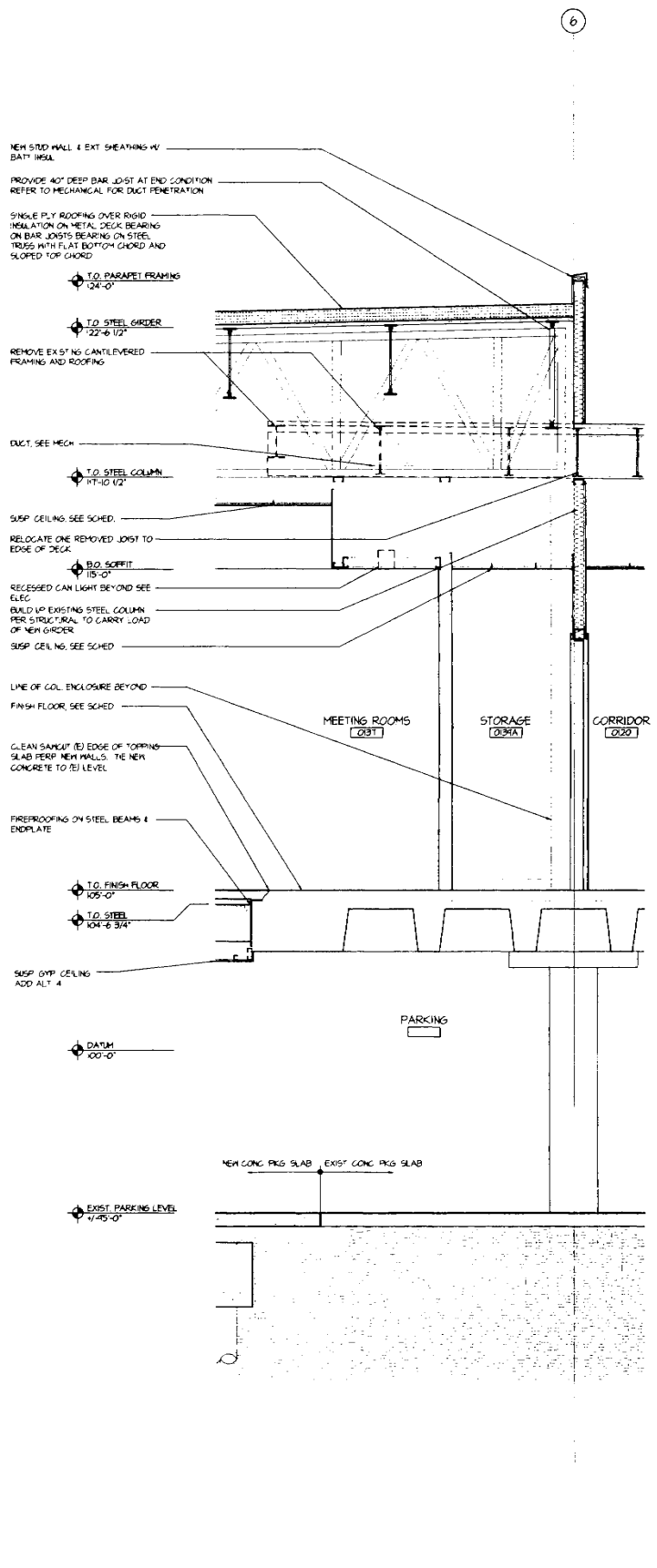

2 **WALL SECTION**
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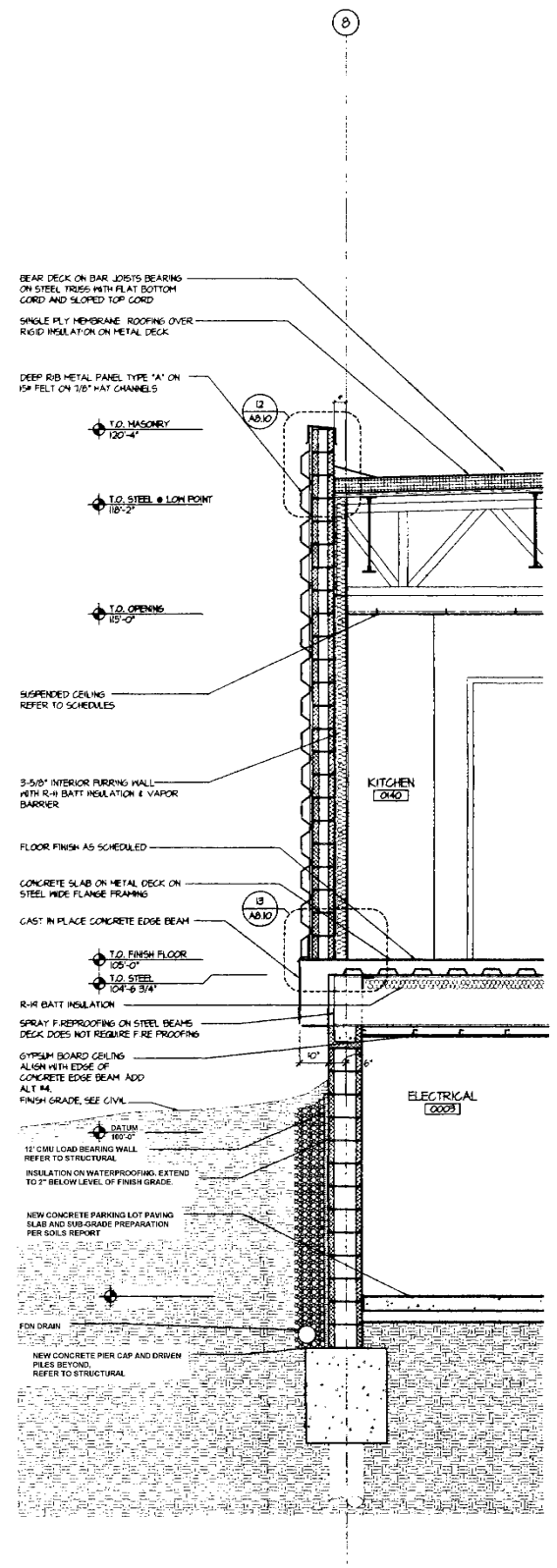

1 **WALL SECTION**
SCALE: 1/2" = 1'-0"

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PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

WALL SECTIONS

Drawn by:
Checked by:

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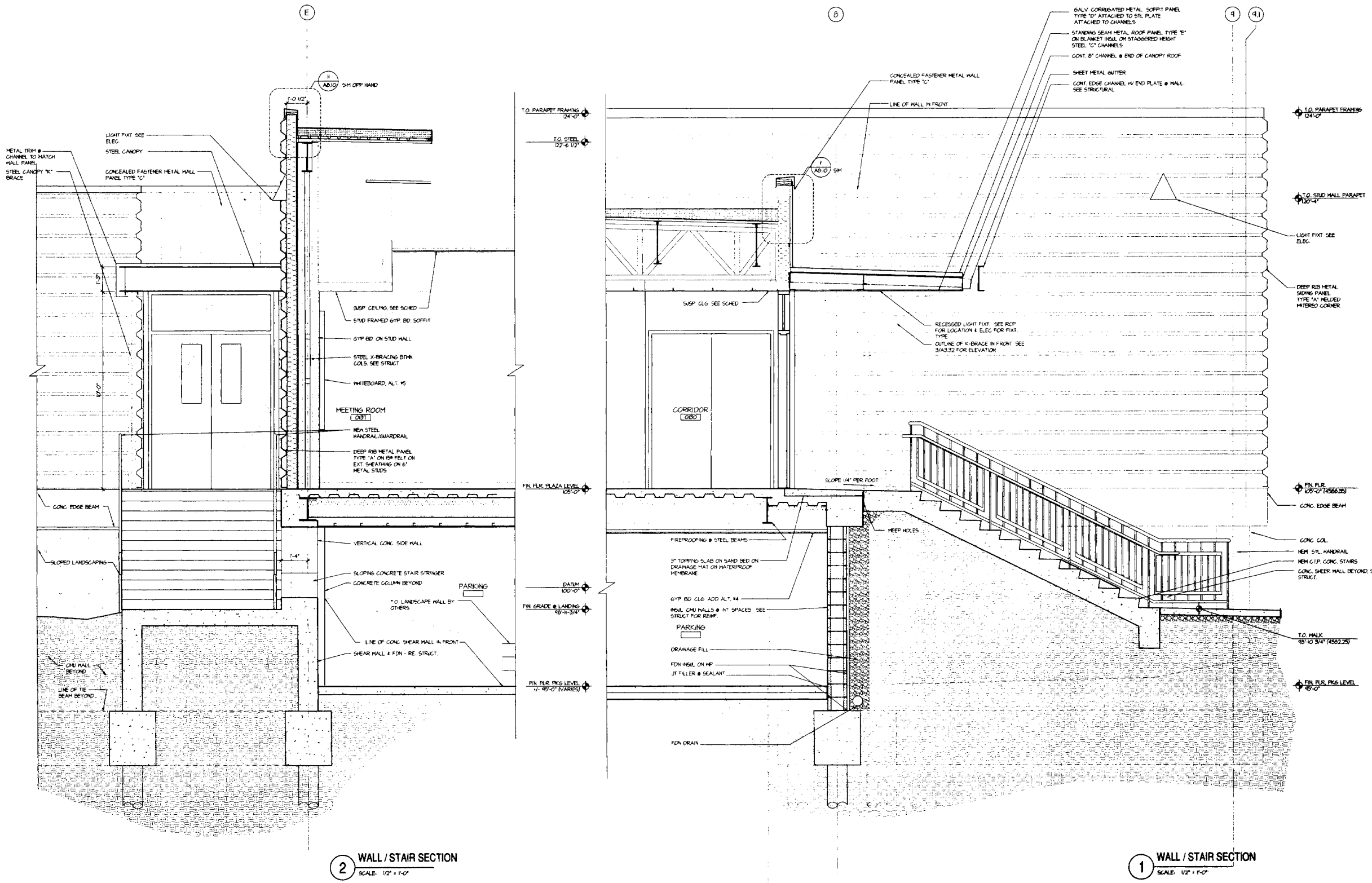
09103746.tif



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PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

WALL SECTIONS/ STAIR SECTIONS

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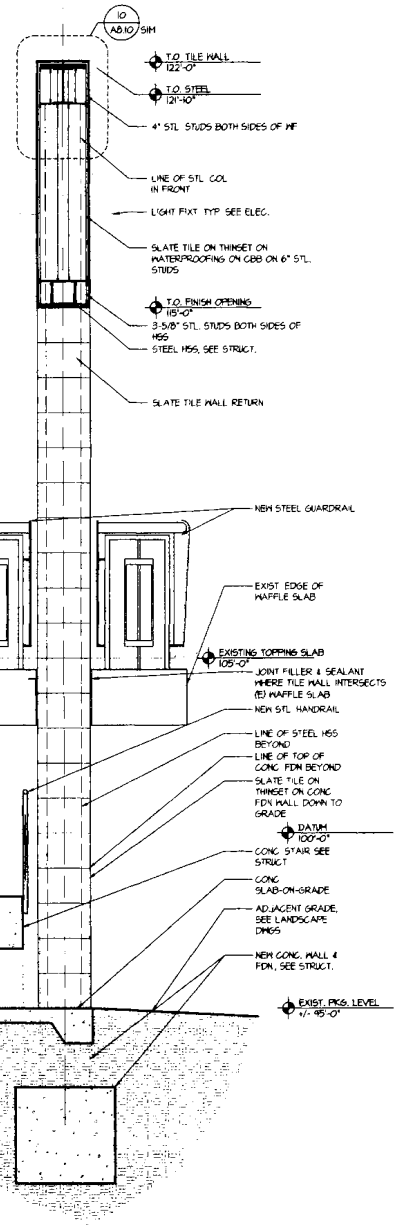

2 **WALL SECTION**
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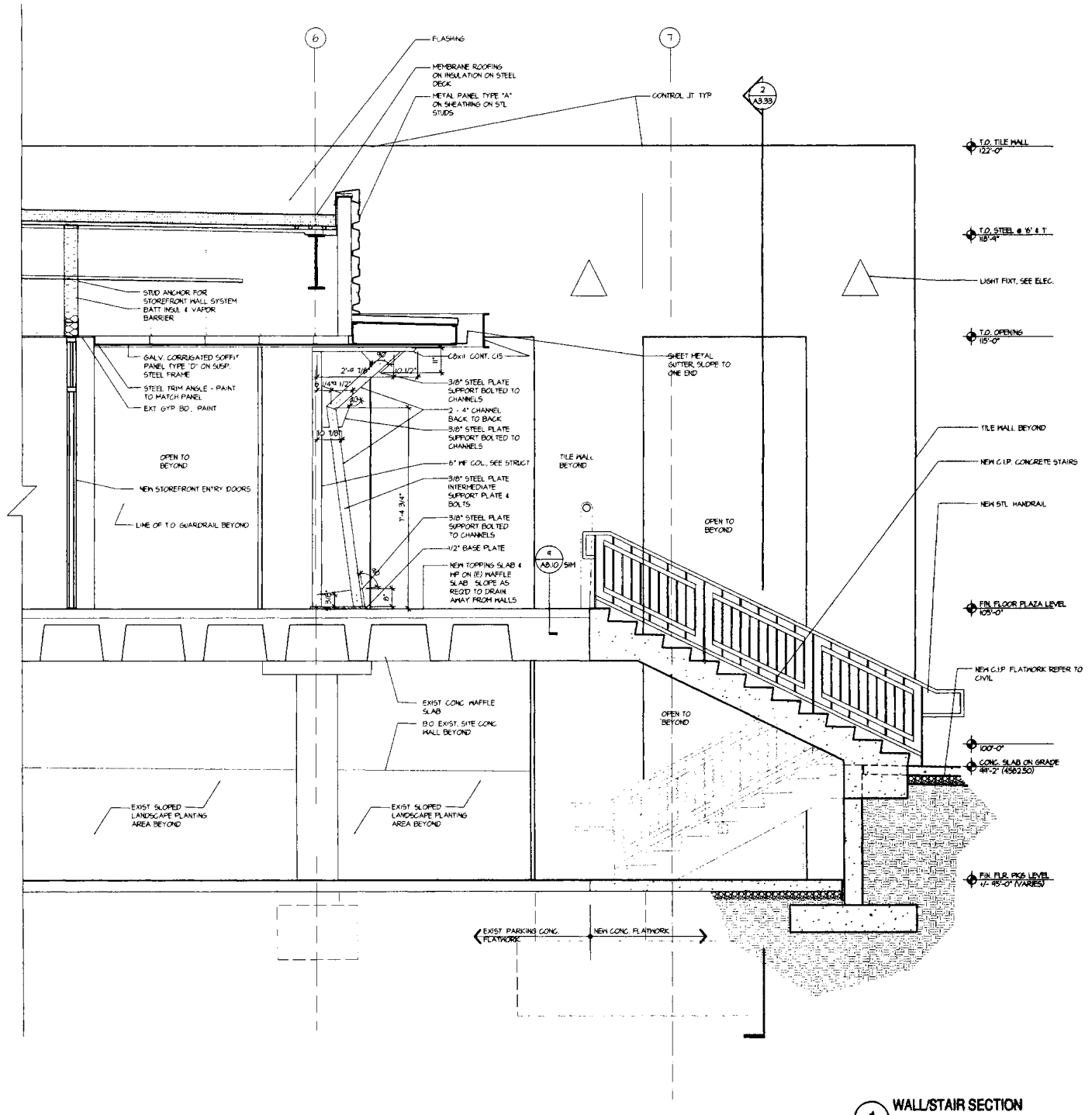

1 **WALL/STAIR SECTION**
SCALE: 1/2" = 1'-0"

Issues/Revisions	Date
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
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PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

WALL SECTIONS/ STAIR SECTIONS

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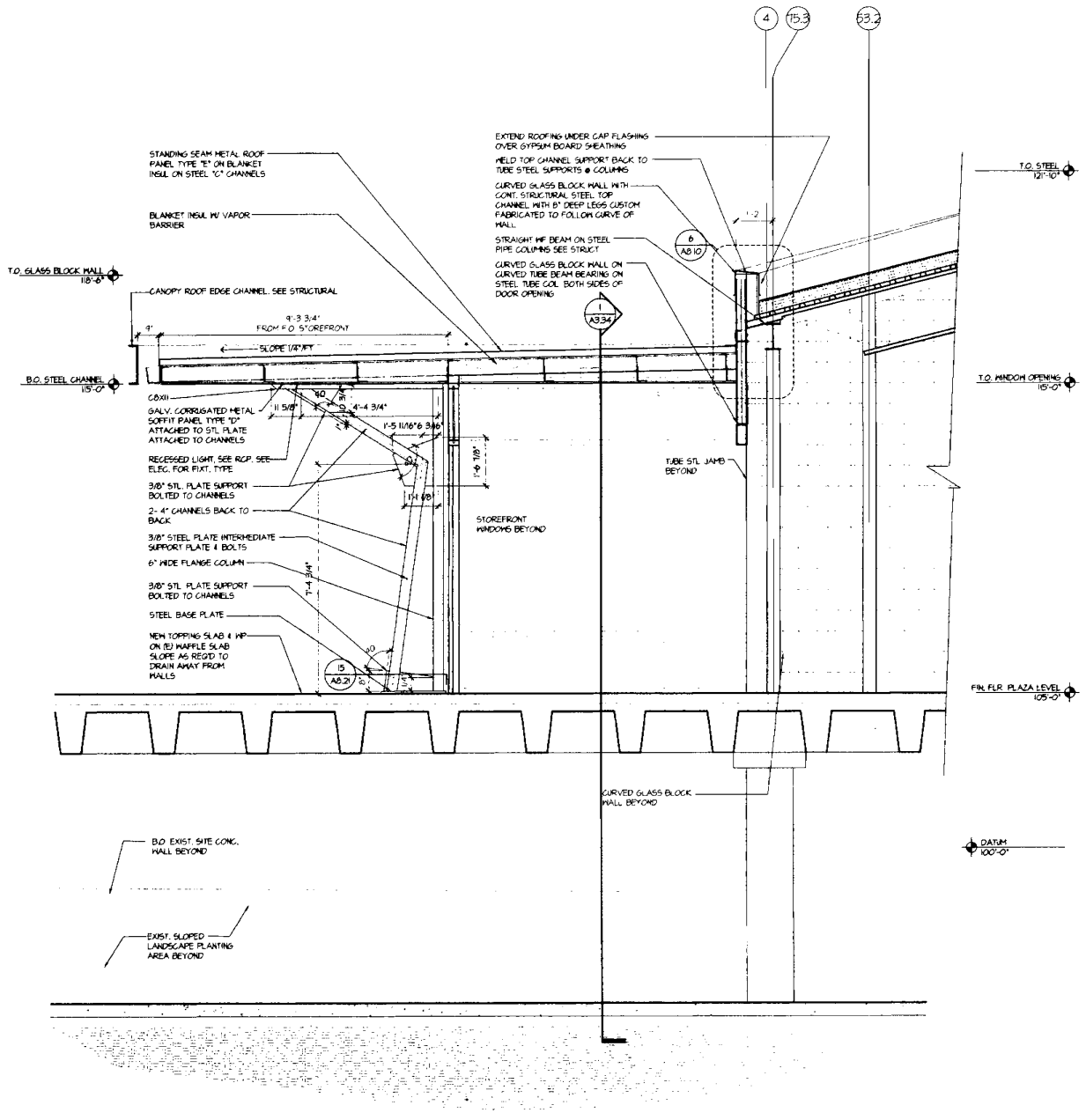
Fax 308 1232



2 WALL SECTION @ VESTIBULE
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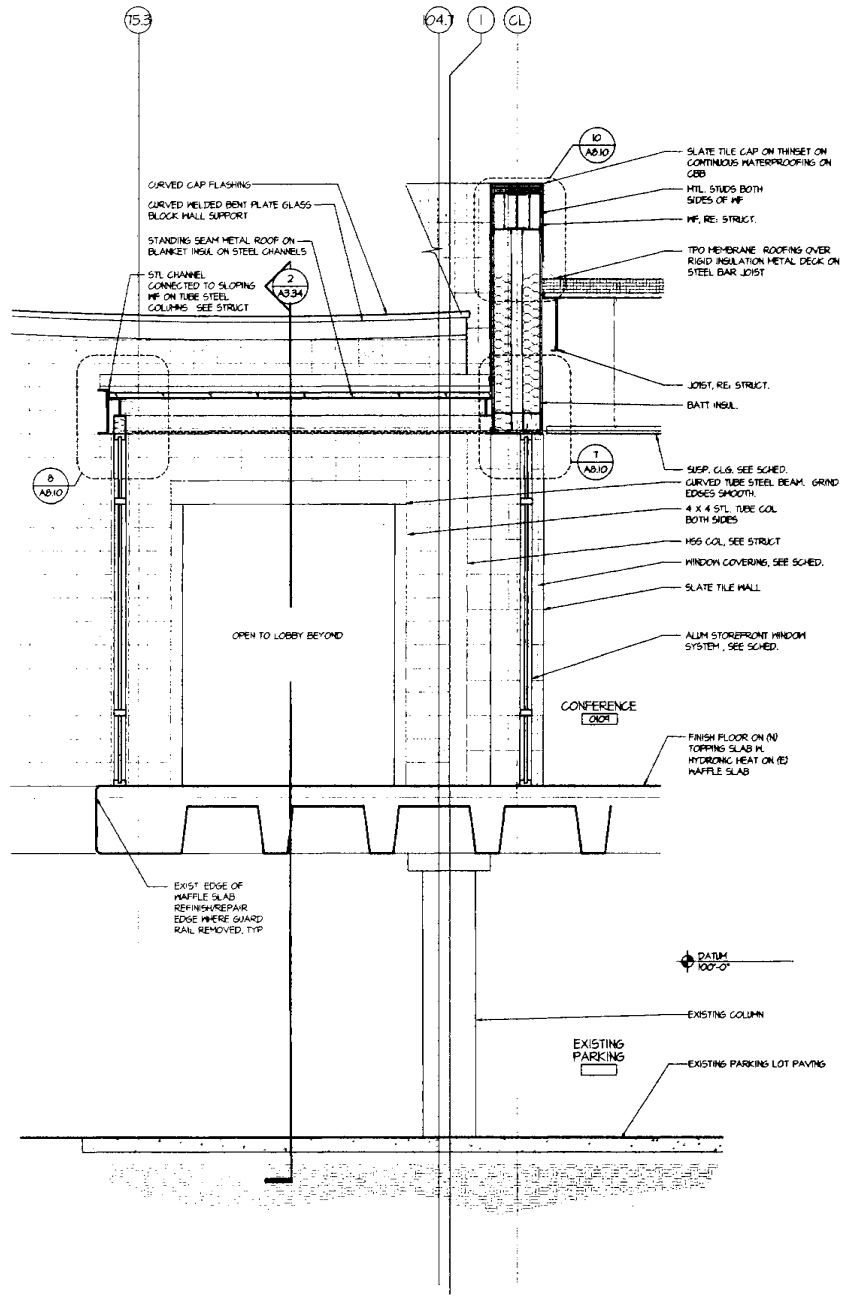

1 WALL SECTION
SCALE: 1/2" = 1'-0"

Issues/Revisions	Date
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
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PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
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WALL SECTIONS

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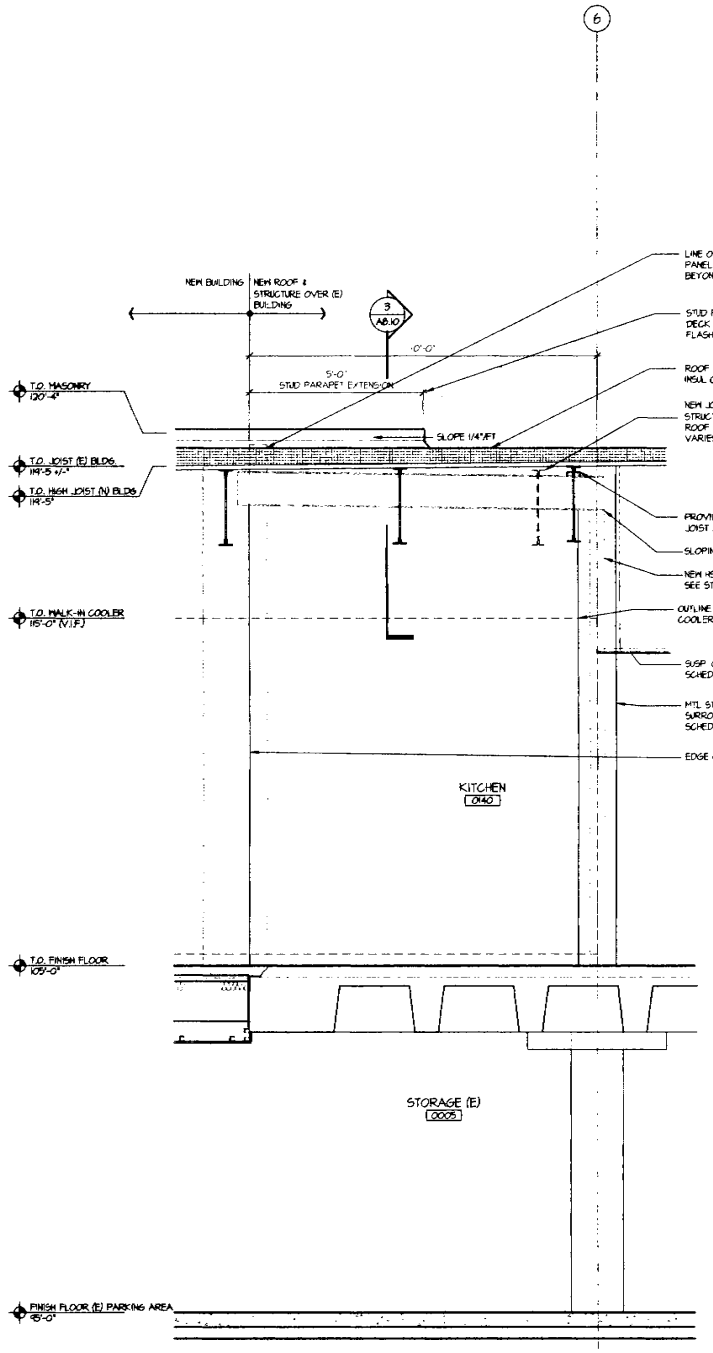

3 **SECTION @ KITCHEN EXISTING ROOF**
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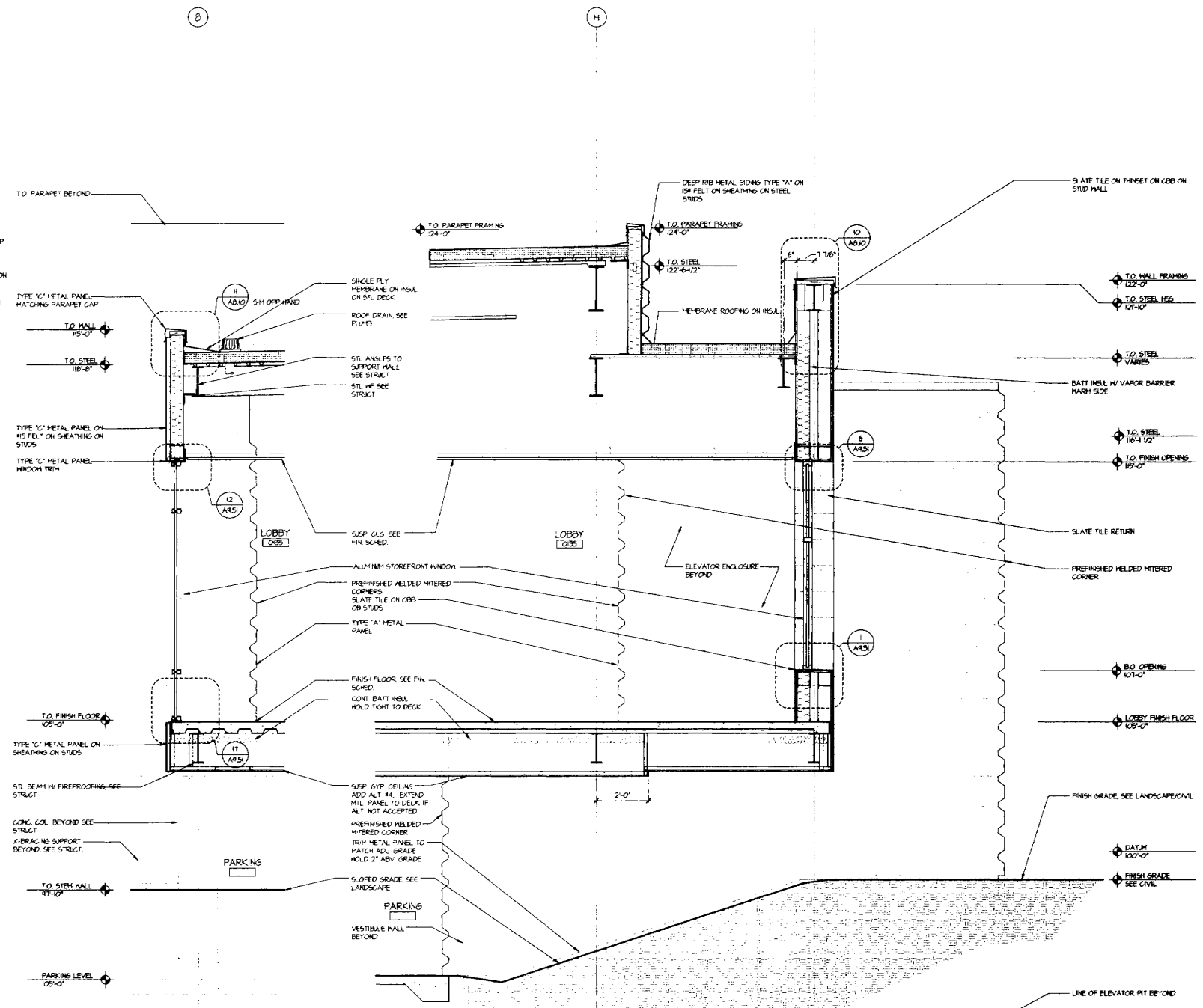

2 **WALL SECTION**
SCALE: 1/2" = 1'-0"

1 **WALL SECTION**
SCALE: 1/2" = 1'-0"

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	9-08-00
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DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION COLORADO

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WALL SECTIONS

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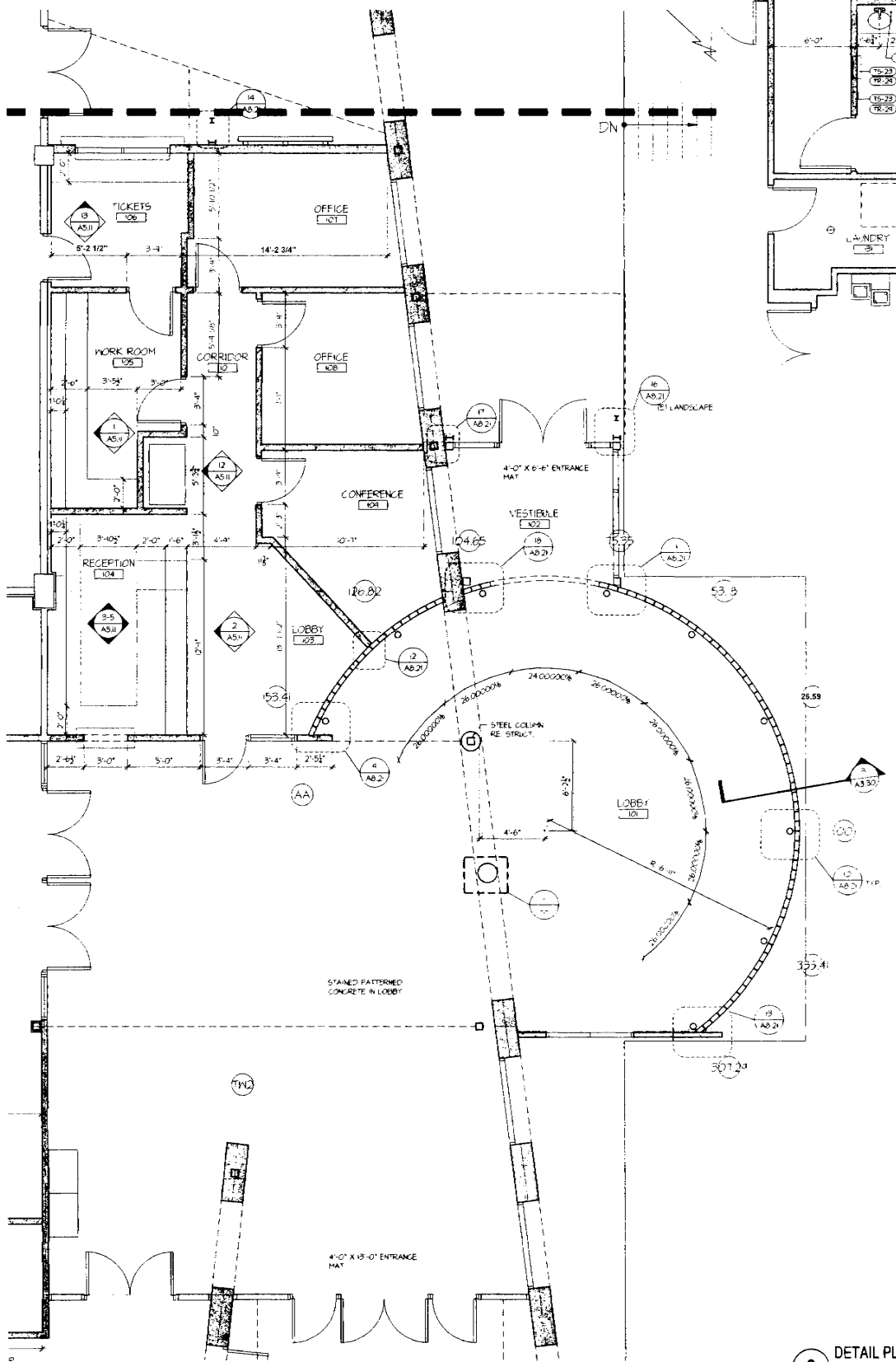
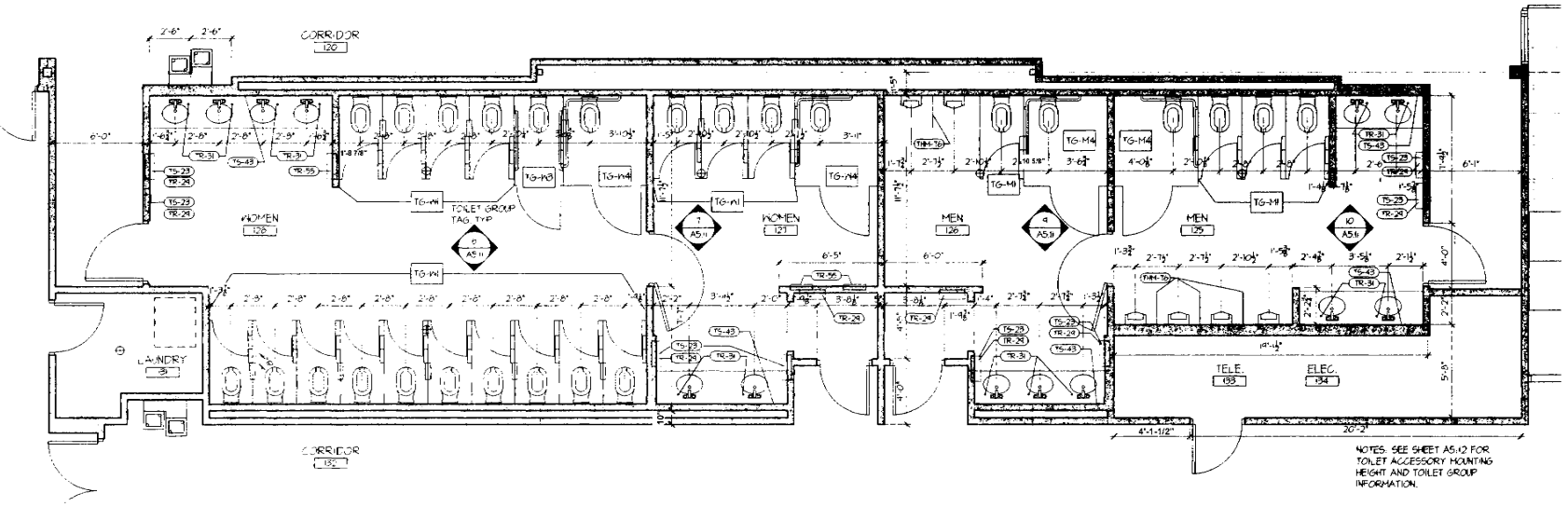
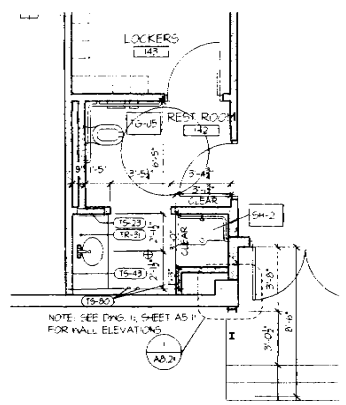


3 DETAIL PLAN OFFICE/ LOBBY
SCALE: 1/4" = 1'-0"



4 DETAIL PLAN - REST ROOMS
SCALE: 1/4" = 1'-0"



2 DETAIL PLAN - REST ROOM 142
SCALE: 1/4" = 1'-0"

1 NOT USED
SCALE: 1/4" = 1'-0"

SINK COMBS DETHLEFS

A Professional Corporation 1731 Market Street, Suite 200 Denver, Colorado 80202
For Architecture 303 388 1200 FAX 388 6220

Issues Revisions	Date
SCHEMATIC DESIGN	9-08-00
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SCD Project No.: 9924

DETAIL FLOOR PLANS

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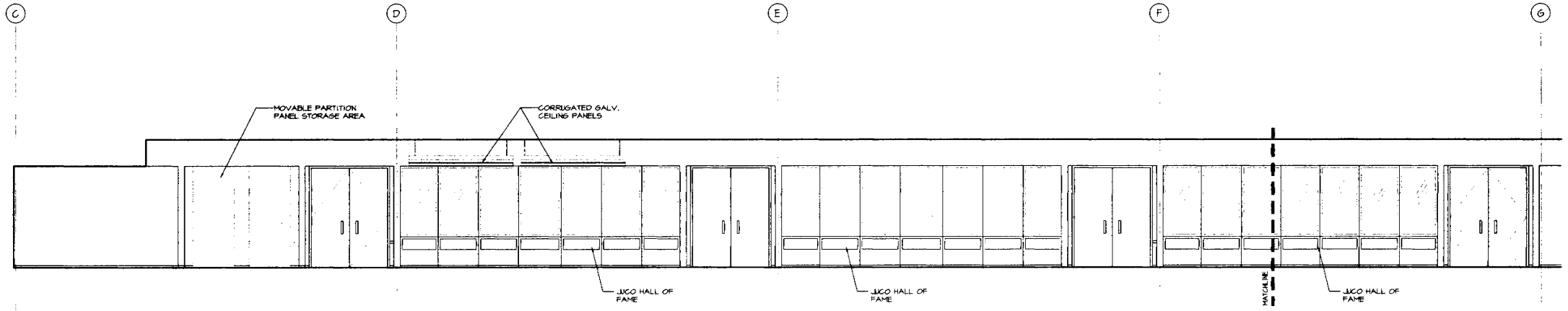
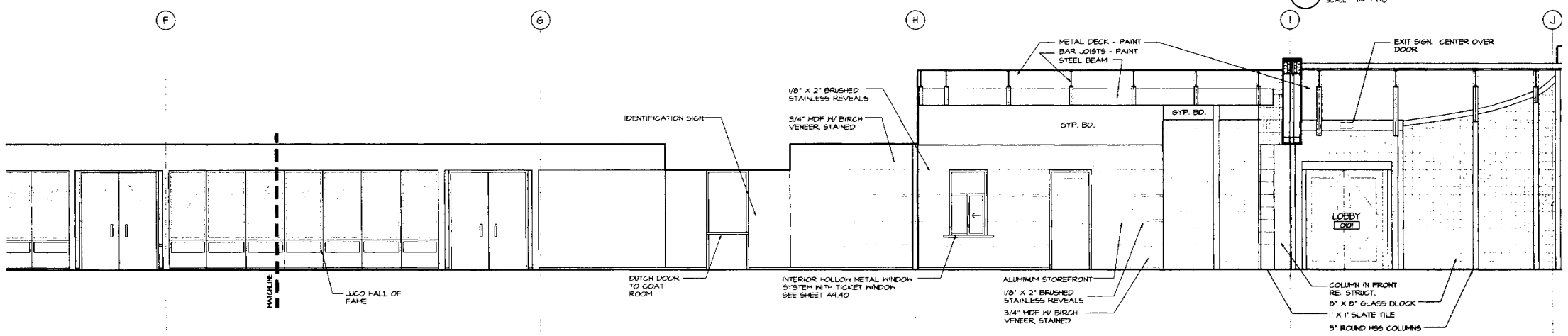


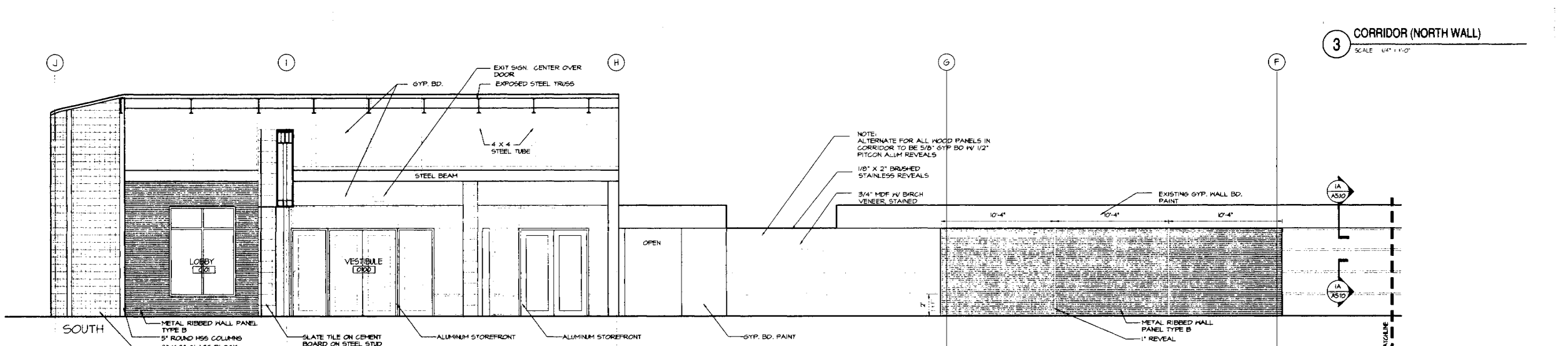
4 CORRIDOR (NORTH WALL)

SCALE 1/4" = 1'-0"



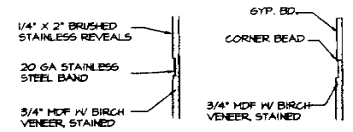
3 CORRIDOR (NORTH WALL)

SCALE 1/4" = 1'-0"



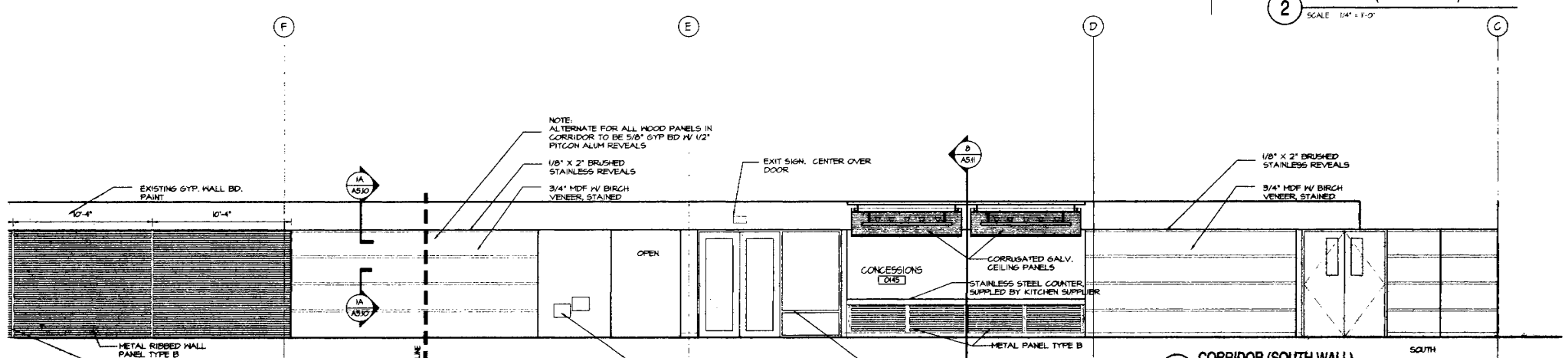
2 CORRIDOR (SOUTH WALL)

SCALE 1/4" = 1'-0"



1A CORRIDOR (SOUTH WALL)

SCALE 1/4" = 1'-0"



1 CORRIDOR (SOUTH WALL)

SCALE 1/4" = 1'-0"

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3245 Walnut Street, Suite 200, Denver, Colorado 80205
303 308 0300
FAX 308 0222

ISSUES/REVISIONS:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION COLORADO

SCD Project No 9924

INTERIOR ELEVATIONS

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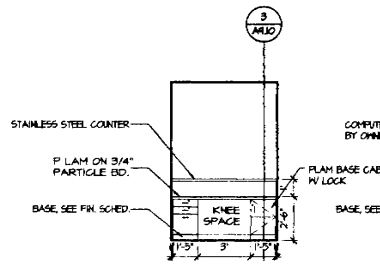
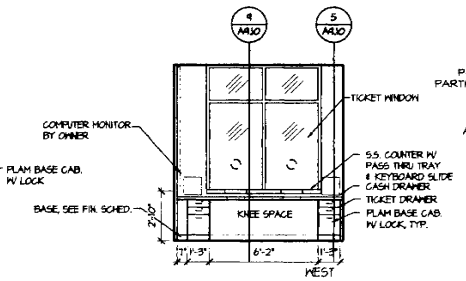


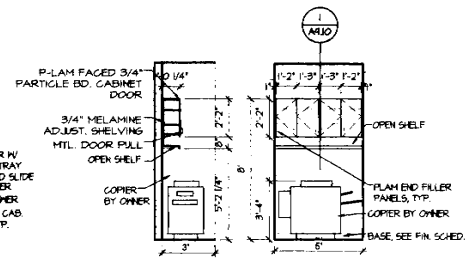
14 KITCHEN OFFICE 144

SCALE: 1/4" = 1'-0"



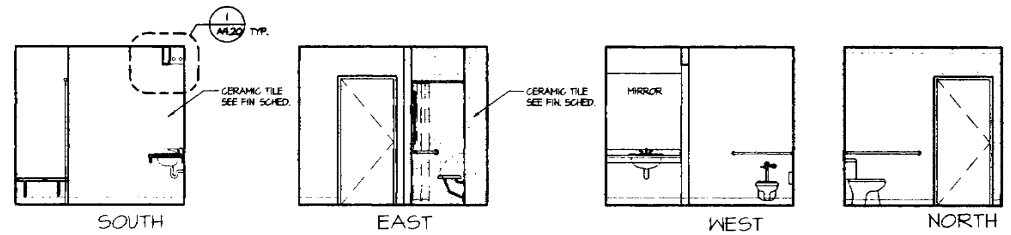
13 TICKETS 106

SCALE: 1/4" = 1'-0"



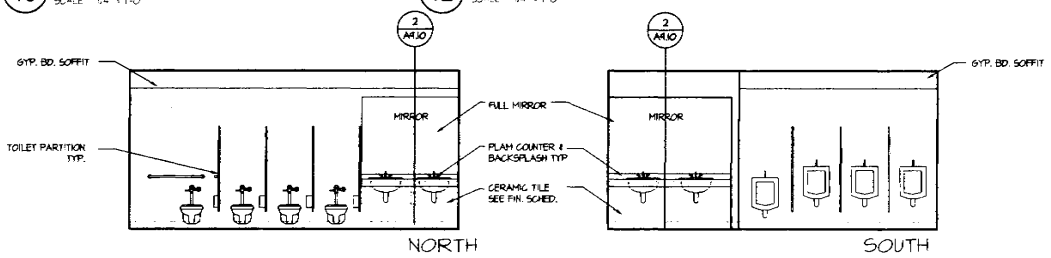
12 COPIER

SCALE: 1/4" = 1'-0"



11 RESTROOM 142

SCALE: 1/4" = 1'-0"



10 MEN'S RESTROOM 125

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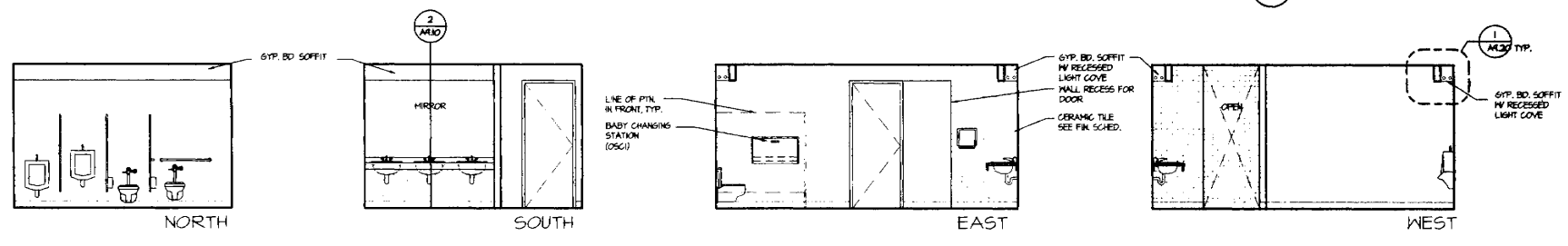

9 MEN'S RESTROOM 126

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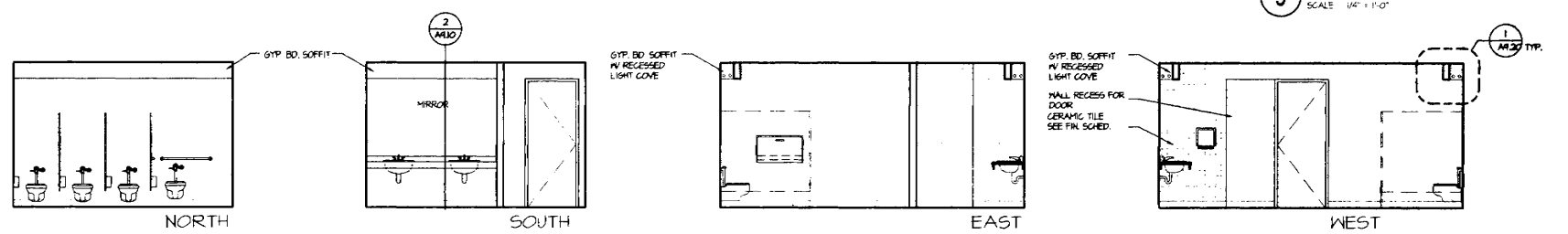

7 WOMEN'S RESTROOM 127

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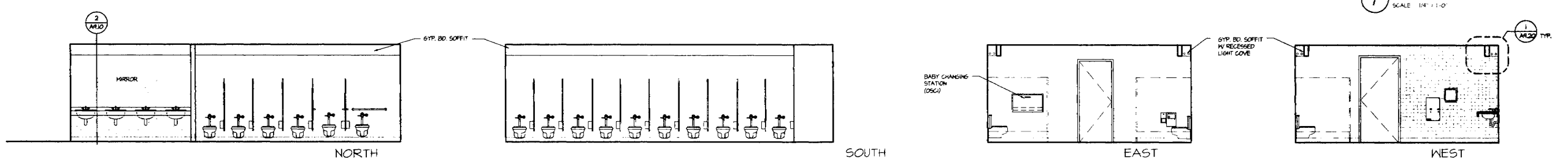
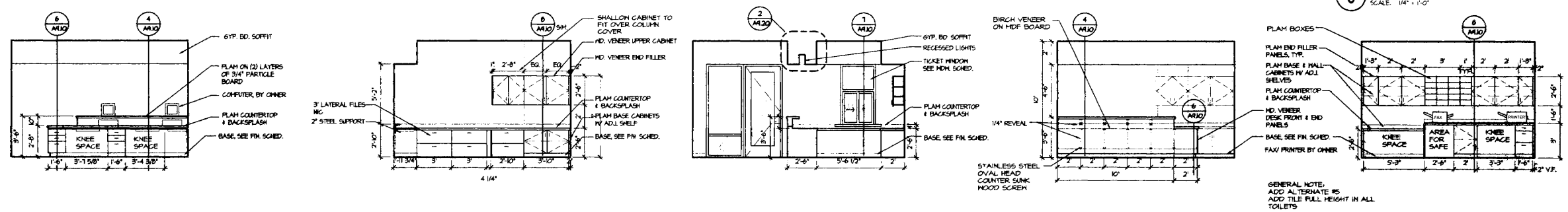


6 WOMEN'S RESTROOM 128

SCALE: 1/4" = 1'-0"



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Issues/Revisions	Date
SCHEMATIC DESIGN	9-08-00
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

INTERIOR ELEVATIONS

Drawn by:
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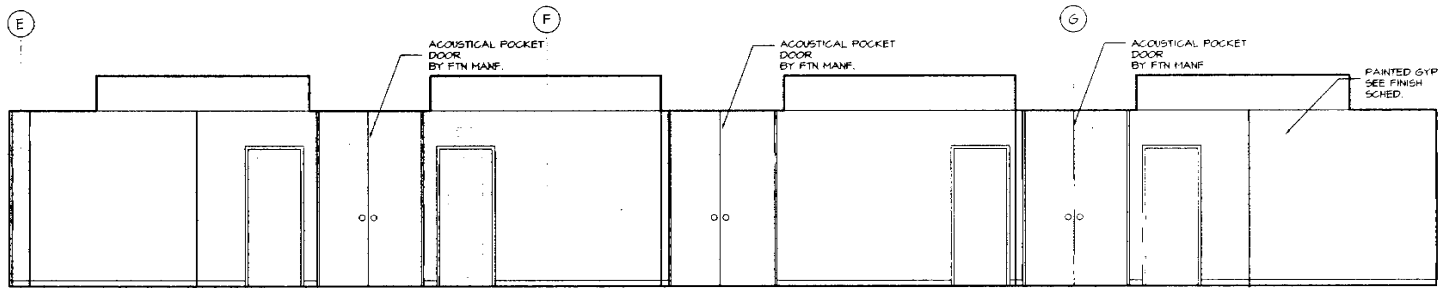
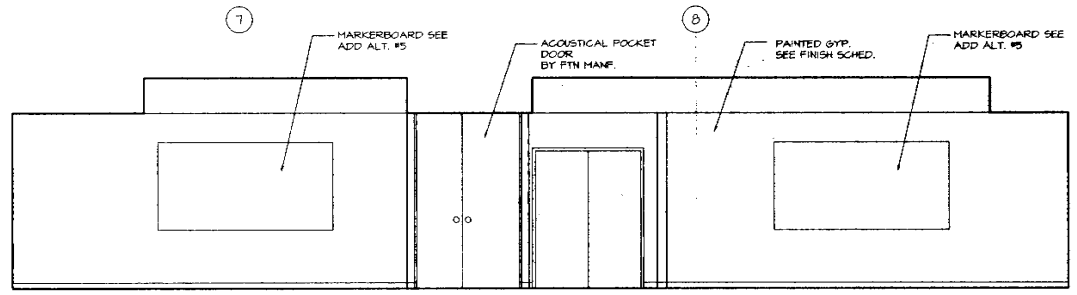


5 MEETING ROOMS (NORTH)
SCALE: 1/4" = 1'-0"



4 MEETING ROOMS (EAST)
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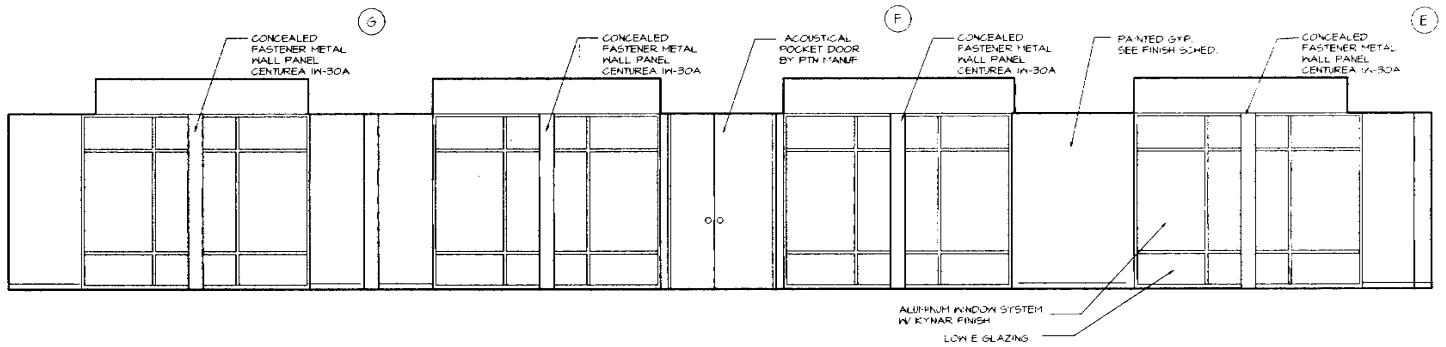
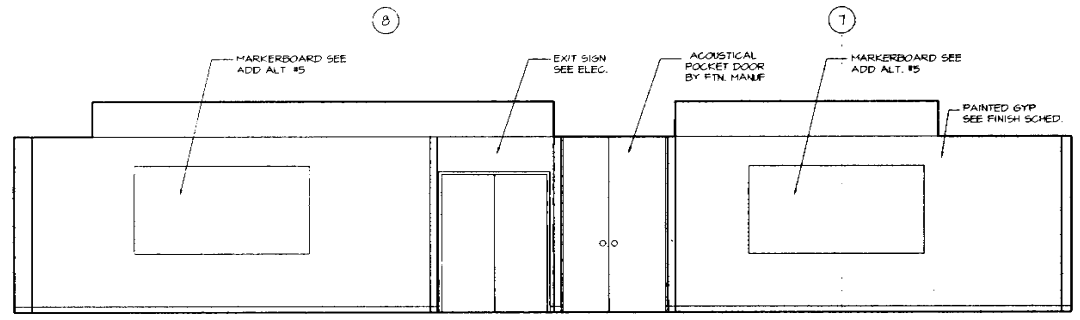
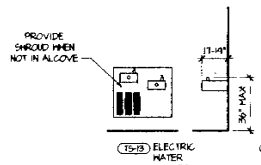


3 MEETING ROOMS (SOUTH)
SCALE: 1/4" = 1'-0"



2 MEETING ROOMS (WEST)
SCALE: 1/4" = 1'-0"

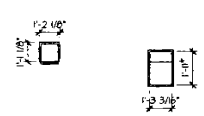
DRINKING FOUNTAIN / ELECTRIC WATER COOLERS



15-19 ELECTRIC WATER COOLER

- SEE MECHANICAL & ELECTRICAL DRAWINGS FOR SPECIFICATIONS

PAPER TOWEL DISPENSER WASTE RECEPTACLE

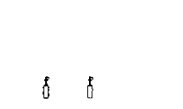


15-23 FORT JAMES PAPER TOWEL DISPENSER (OSCI)

OWNER TO SUPPLY (5) ADDITIONAL 15-23 UNITS FOR CONTRACTOR INSTALL AT KITCHEN HANDSINK LOCATIONS

15-29 BOBRICK WASTE RECEPTACLE

SOAP DISPENSER

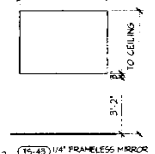


TB-16 BOBRICK B-822 SOAP DISPENSER

15-32 BOBRICK B-212 SOAP DISPENSER (OSCI)

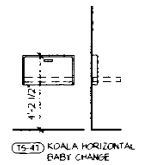
OWNER TO SUPPLY (5) ADDITIONAL 15-23 UNITS FOR CONTRACTOR INSTALL AT KITCHEN HANDSINK LOCATIONS

MIRRORS



15-43 1/4" FRAMELESS MIRROR WITH CHROME OR SS J-MOLD AT BOTTOM

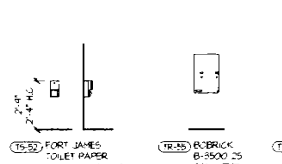
BABY CHANGE



15-47 KOALA HORIZONTAL BABY CHANGE

OSCI (2) UNITS CONTRACTOR PROVIDED REMAINING 2 UNITS

TOILET PAPER DISPENSER SAN. VEND. DISPENSER SANITARY RECEPTACLE



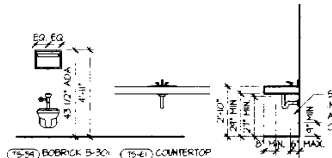
15-52 FORT JAMES TOILET PAPER DISPENSER (OSCI)

15-55 BOBRICK B-3500 25 SAN VEND

15-56 BOBRICK B-354 SAN DISP PTD MTD SERVES 123 STALLS

TB-57 BOBRICK B-353 SAN DISP

SEAT COVER LAVATORY

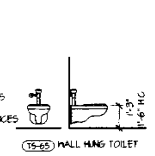


15-54 BOBRICK B-301 SEAT COVER DISPENSER

15-61 CONTERTOP LAVATORIES

- SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS

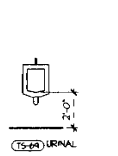
TOILET



TH-65 WALL HUNG TOILET ACCESSIBLE

- SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS

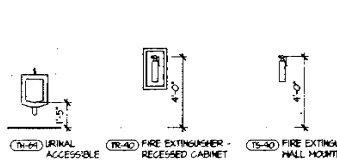
URINAL



15-64 URINAL

- SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS

FIRE PROTECTION SPECIALTIES



TH-64 URINAL ACCESSIBLE

TH-40 FIRE EXTINGUISHER - RECESSED CABINET

15-40 FIRE EXTINGUISHER - WALL MOUNTED

TOILET PARTITIONS

TH-11 POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS

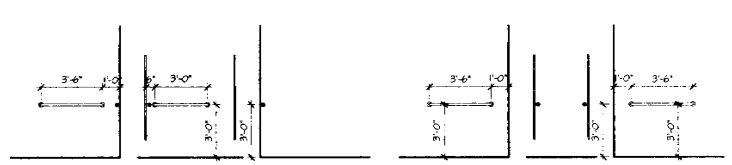
TH-12 SOLID PLASTIC - FLOOR ANCHORED PARTITIONS (ADD ALT #5)

URINAL PARTITIONS

TH-16 POWDER COATED STEEL - WALL-HUNG PARTITIONS

TH-15 SOLID PLASTIC WALL-HUNG PARTITIONS (ADD ALT. #5)

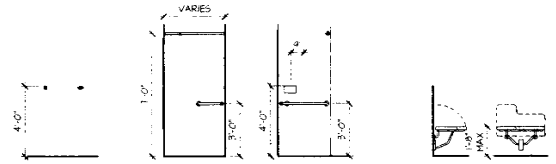
GRAB BARS



15-18 BOBRICK B-6806X36 & B-6806X42 GRAB BARS

15-70 BOBRICK (2) B-6806X42 GRAB BARS (AMBULATORY)

SHOWER ACCESSORIES



15-60 BOBRICK B-167 I ROBE HOOK

15-70 BOBRICK B-167 2 DOUBLE ROBE HOOK

15-69 BOBRICK B-6107 SHOWER CURTAIN ROD AND BOBRICK B-204-1 SHOWER CURTAIN HOOKS AND BOBRICK B-204-2 SHOWER CURTAINS

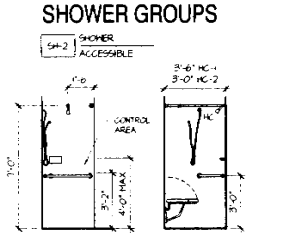
15-32 BOBRICK B-212 SOAP DISPENSER (OSCI)

15-66 BOBRICK B-6806 99 GRAB BAR

15-68 BOBRICK B-5181 SOLID SHOWER SEAT

SHOWER GROUPS

SH-2 SHOWER ACCESSIBLE



15-69 BOBRICK B-6107 SHWR CURTAIN ROD
BOBRICK B-204-1 SHWR CURTAIN HOOKS
BOBRICK B-204-2 SHWR CURTAINS

15-62 BOBRICK B-212 SOAP DISPENSER (OSCI)

TH-66 BOBRICK B-6806 99 GRAB BAR

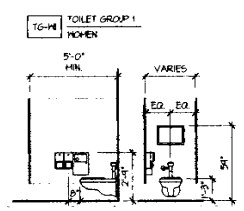
15-68 BOBRICK B-5181 SOLID SHOWER SEAT

GENERAL NOTES:

1) SEE SPEC. SECTION 10650 FOR TOILET PARTITIONS
2) SEE SPEC. SECTION 10520 FOR FIRE EXTINGUISHERS
3) SEE SPEC. SECTION 15155 FOR PLUMBING FIXTURES

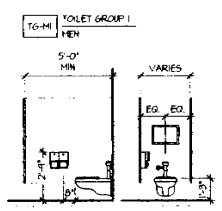
TOILET GROUPS

TG-H1 TOILET GROUP 1 WOMEN



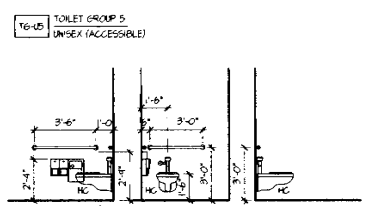
15-52 COMPACT 5577 TOILET PAPER DISPENSER (OSCI)
15-56 BOBRICK B-354 SAN. VEND.
15-54 BOBRICK B-301 SEAT COVER DISPENSER
TH-65 WALL HUNG TOILET
TH-11 POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS

TG-H1 TOILET GROUP 1 MEN



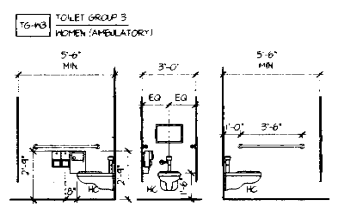
15-52 COMPACT 5577 TOILET PAPER DISPENSER (OSCI)
15-54 BOBRICK 8301 SEAT COVER DISPENSER
TH-65 WALL HUNG TOILET
TH-15 POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS

TG-H5 TOILET GROUP 5 UNISEX (ACCESSIBLE)



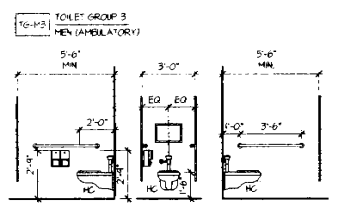
15-52 COMPACT 5577 TOILET PAPER DISPENSER (OSCI)
15-51 BOBRICK B-254 SAN. DISP.
15-54 BOBRICK B-301 SEAT COVER DISPENSER
TH-66 WALL HUNG TOILET ACCESSIBLE
15-18 BOBRICK B-6806X36 & B-6806X42 GRAB BARS

TG-H3 TOILET GROUP 3 WOMEN (AMBULATORY)



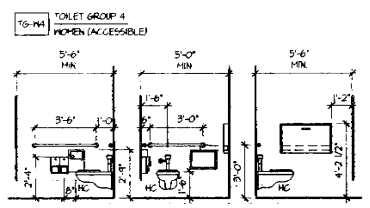
15-52 COMPACT 5577 TOILET PAPER DISPENSER (OSCI)
15-56 BOBRICK B-354 SAN DISP.
15-54 BOBRICK B-301 SEAT COVER DISPENSER
TH-65 WALL HUNG TOILET ACCESSIBLE
TH-11 POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS
15-70 BOBRICK (2) B-6806X42 GRAB BARS

TG-H3 TOILET GROUP 3 MEN (AMBULATORY)



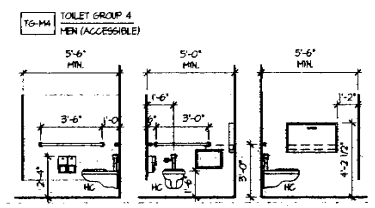
15-52 COMPACT 5577 TOILET PAPER DISPENSER (OSCI)
15-54 BOBRICK B-301 SEAT COVER DISPENSER
TH-65 WALL HUNG TOILET ACCESSIBLE
TH-11 POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS
15-70 BOBRICK (2) B-6806X42 GRAB BARS

TG-H4 TOILET GROUP 4 WOMEN (ACCESSIBLE)



15-52 COMPACT 5577 TOILET PAPER DISPENSER (OSCI)
15-56 BOBRICK B-354 SAN DISP.
15-54 BOBRICK B-301 SEAT COVER DISPENSER
TH-65 WALL HUNG TOILET ACCESSIBLE
TH-13 POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS
15-18 BOBRICK B-6806X36 & B-6806X42 GRAB BARS
15-41 KOALA HORZ. BABY CHANGE

TG-H4 TOILET GROUP 4 MEN (ACCESSIBLE)



15-52 COMPACT 5577 TOILET PAPER DISPENSER (OSCI)
15-56 BOBRICK B-354 SAN VEND
15-54 BOBRICK B-301 SEAT COVER DISPENSER
TH-65 WALL HUNG TOILET ACCESSIBLE
TH-13 POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS
15-18 BOBRICK B-6806X36 & B-6806X42 GRAB BARS
15-41 KOALA HORZ. BABY CHANGE (OSCI)

1 RESTROOM ACCESORIES
SCALE: 1/4" = 1'-0"

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PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SGD Project No: 9924

INTERIOR ELEVATIONS

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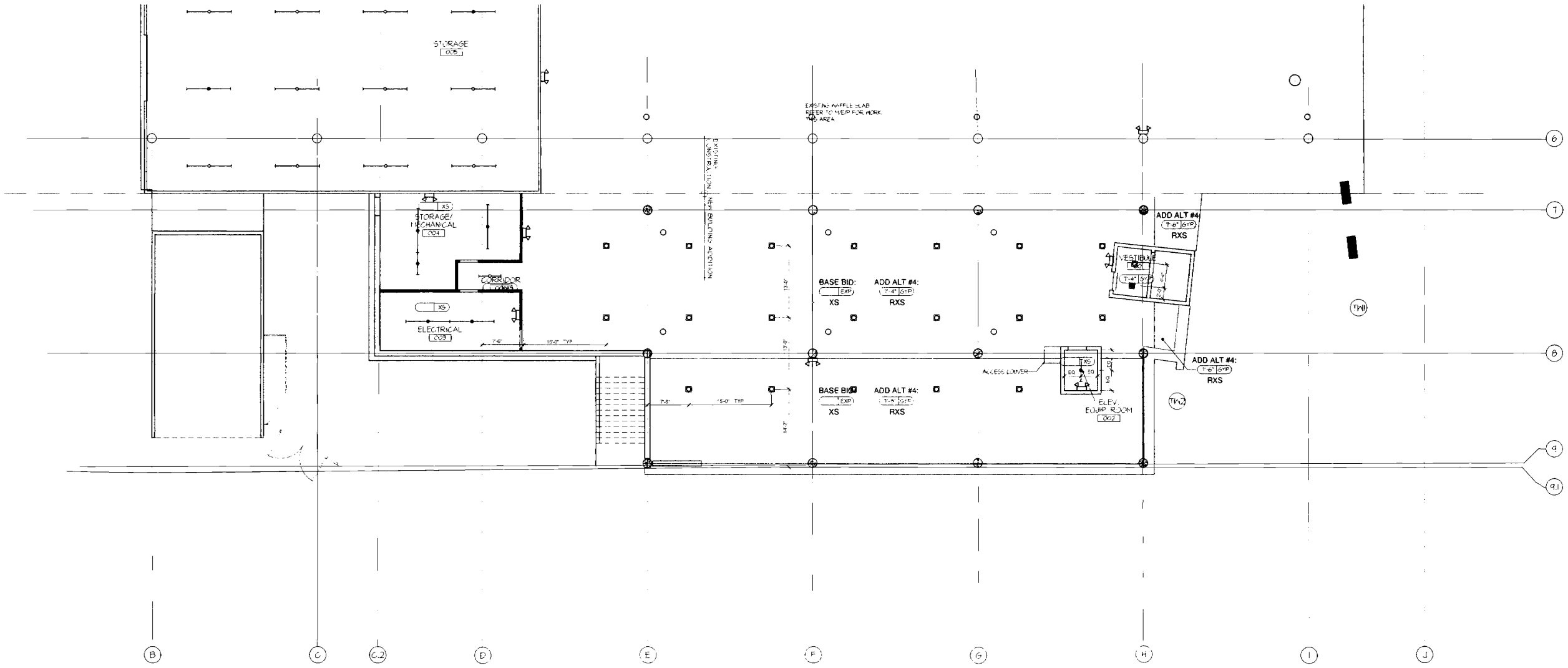

1 REFLECTED CEILING PLAN PARTIAL

SCALE: 1/8" = 1'-0"

NORTH

RCP LEGEND

CEILING TYPE
SEE SHT COVER SHEET FOR ABBREVIATIONS
8'-0" AGT
CEILING HEIGHT ABOVE F.F.
CEILING SYMBOL

2' X 4' ACOUSTIC TILE W/ REGULAR EDGE 2' X 2' APPEARANCE

2' X 4' ACOUSTIC TILE IN SUSPENDED GRID SYSTEM

GYP-BOARD CEILING ON SUSPENDED MTL FRAMING SYSTEM

XS

RXS

EXPOSED CONSTRUCTION (NO CEILING)

PROVIDE SPRAY ON FIRE PROOFING TO EXPOSED STRUCTURE TO PROVIDE 1 HOUR RATING.

2' X 4' RECESSED FLUOR. LIGHT FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

2' X 2' RECESSED FLUOR. LIGHT FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

TRACK LIGHTING SYSTEM SEE ELECTRICAL DWGS FOR FIXTURE TYPE

STAIR LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

PENDANT MOUNTED LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

RECESSED CAN DOWNLIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

WALL MOUNTED LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EXIT LIGHT, WALL MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EXIT LIGHT, CEILING MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

PENDANT LIGHT, CEILING MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

LIGHT SCONCE, WALL MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EMERGENCY LIGHTING UNIT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

LIGHT BOLLARD SEE ELECTRICAL DWGS FOR FIXTURE TYPE

SUSPENDED DIRECT/INDIRECT FLUORESCENT LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

4' INDUSTRIAL STRIP FLUOR FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

8' INDUSTRIAL STRIP FLUOR FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

GYP-BOARD CONSTRUCTED RECESSED COVE WITH PARABOLIC LOUVER.

MECHANICAL SUPPLY AIR DIFFUSERS REFER TO MECHANICAL

MECHANICAL RETURN AIR DIFFUSERS REFER TO MECHANICAL

ISSUING PERMITS	Date
SCHEMATIC DESIGN	9-08-00
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DESIGN DEVELOPMENT	2-5-00
STEEL BID REFERENCE	2-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-6-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

PARKING LEVEL REFLECTED CEILING PLAN PARTIAL

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GRAND JUNCTION, COLORADO

SCD Project No.: 9924

PLAZA LEVEL REFLECTED CEILING PLAN PARTIAL

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Checked by

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1 **PLAZA LEVEL REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

NORTH

RCP LEGEND

CEILING TYPE
SEE SHT COVER SHEET FOR ABBREVIATIONS
8'-0" ACT — CEILING HEIGHT ABOVE F.F.
CEILING SYMBOL

CEILING SYMBOL

2' X 4' ACOUSTIC TILE W/ REGULAR EDGE 2' X 2' APPEARANCE

2' X 4' ACOUSTIC TILE IN SUSPENDED GRID SYSTEM

GYP. BOARD CEILING ON SUSPENDED MTL FRAMING SYSTEM

XS

RXS

EXPOSED CONSTRUCTION (NO CEILING)

PROVIDE SPRAY ON FIRE PROOFING TO EXPOSED STRUCTURE TO PROVIDE 1 HOUR RATING

2' X 4' RECESSED FLUOR LIGHT FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

2' X 2' RECESSED FLUOR LIGHT FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

TRACK LIGHTING SYSTEM SEE ELECTRICAL DWGS FOR FIXTURE TYPE

STAIR LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

PENDANT MOUNTED LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

RECESSED CAN DOWNLIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

WALL MOUNTED LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EXIT LIGHT, WALL MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EXIT LIGHT, CEILING MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

PENDANT LIGHT, CEILING MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

LIGHT SCONCE, WALL MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EMERGENCY LIGHTING UNIT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

LIGHT BOLLARD SEE ELECTRICAL DWGS FOR FIXTURE TYPE

SUSPENDED DIRECT/INDIRECT FLUORESCENT LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

4' INDUSTRIAL STRIP FLOOR FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

8' INDUSTRIAL STRIP FLOOR FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

5/8" GYP BOARD CONSTRUCTED RECESSED COVE WITH PARABOLIC LOUVER.

MECHANICAL SUPPLY AIR DIFFUSERS REFER TO MECHANICAL

MECHANICAL RETURN AIR DIFFUSERS REFER TO MECHANICAL

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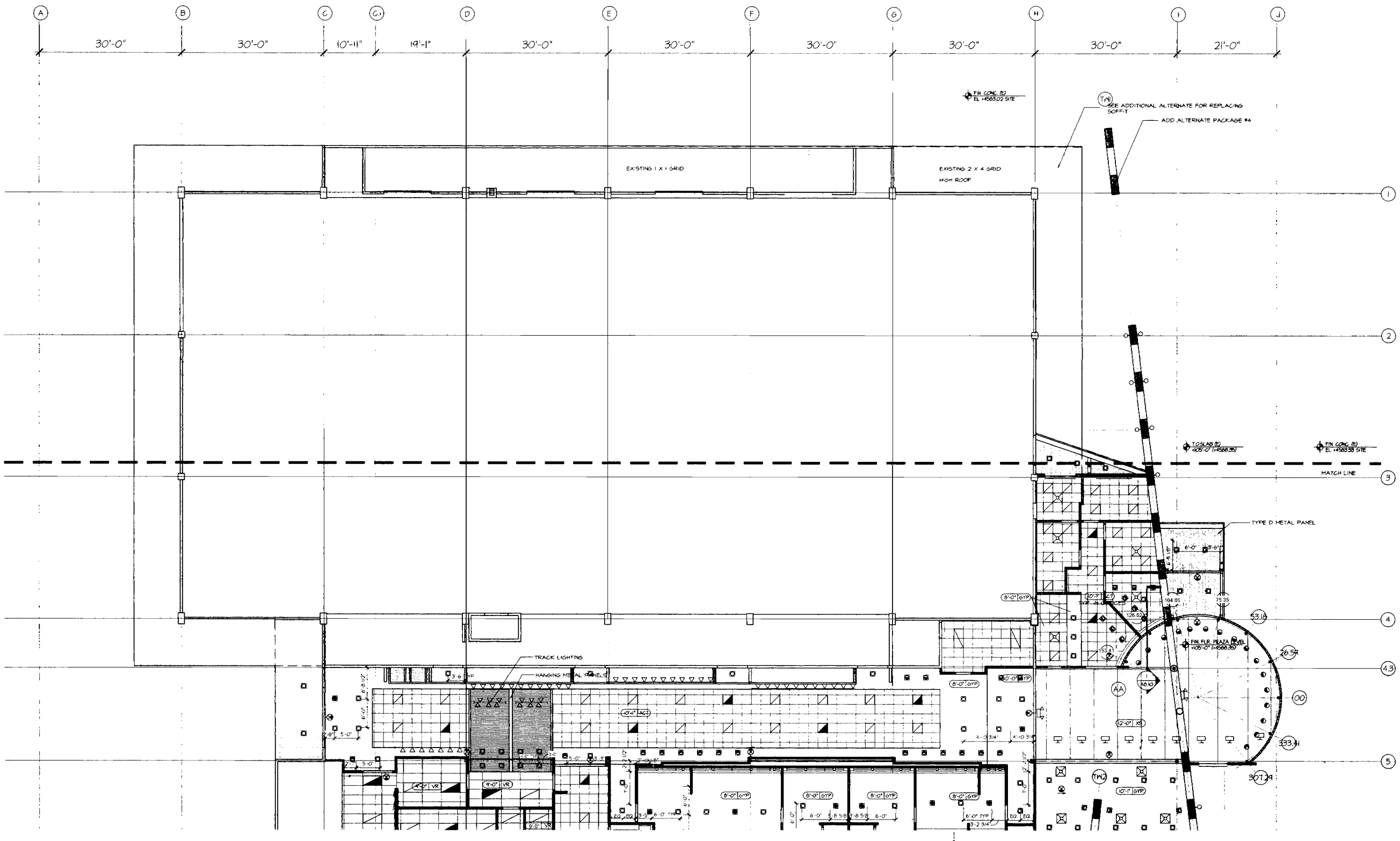
303 939 1390
FAX 303 939 1272



1 ENLARGED REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0"

NORTH

Issues/Revisions	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	2-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

ENLARGED REFLECTED CEILING PLAN

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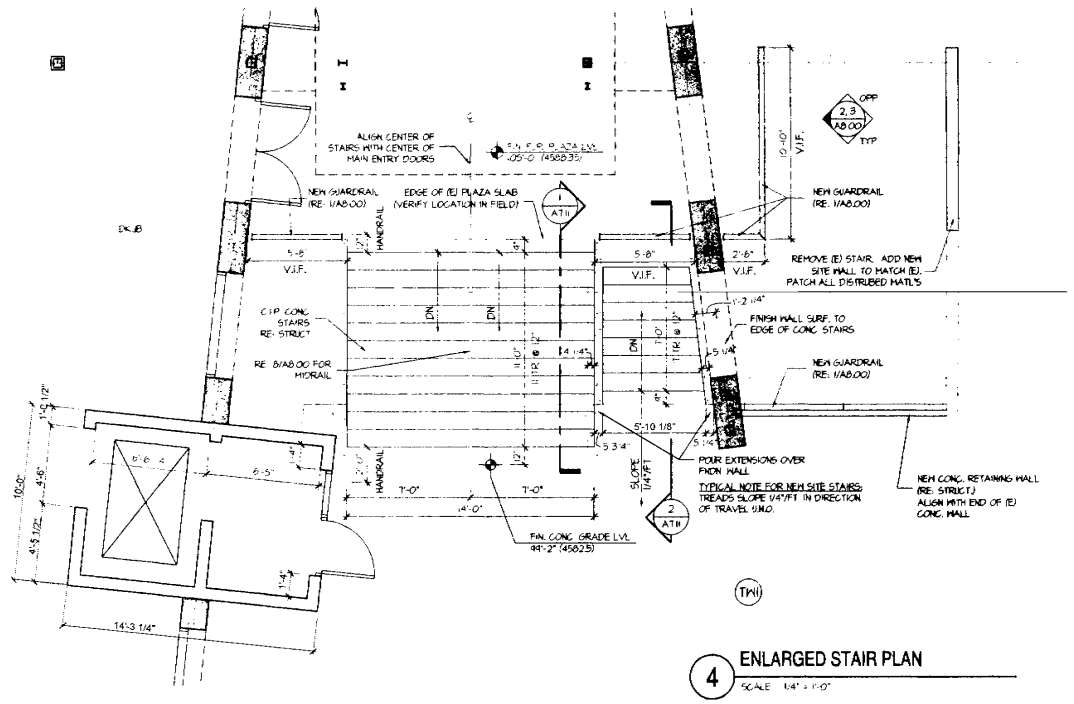
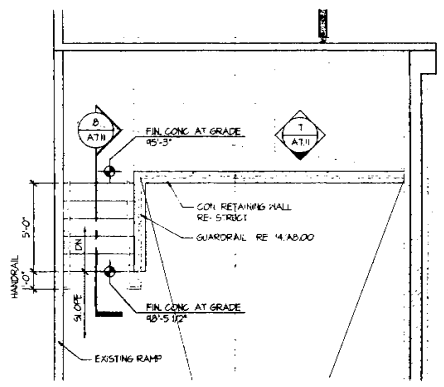
SINK COMBS DETHLEFS

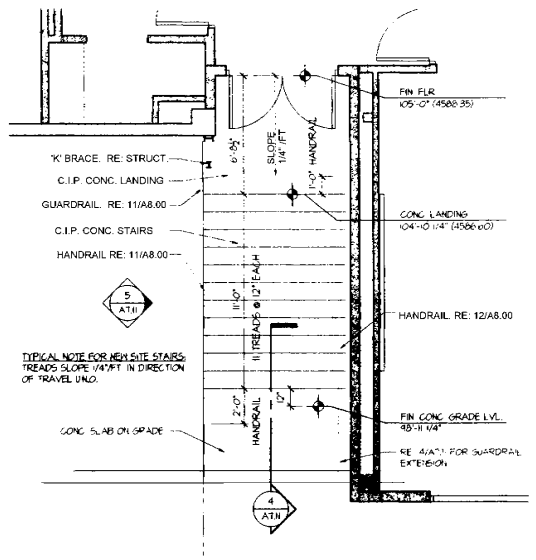
A Professional Corporation for Architecture
2215 Market Street, Suite 200, Denver, Colorado 80205
303 308 0200
FAX 308 0222



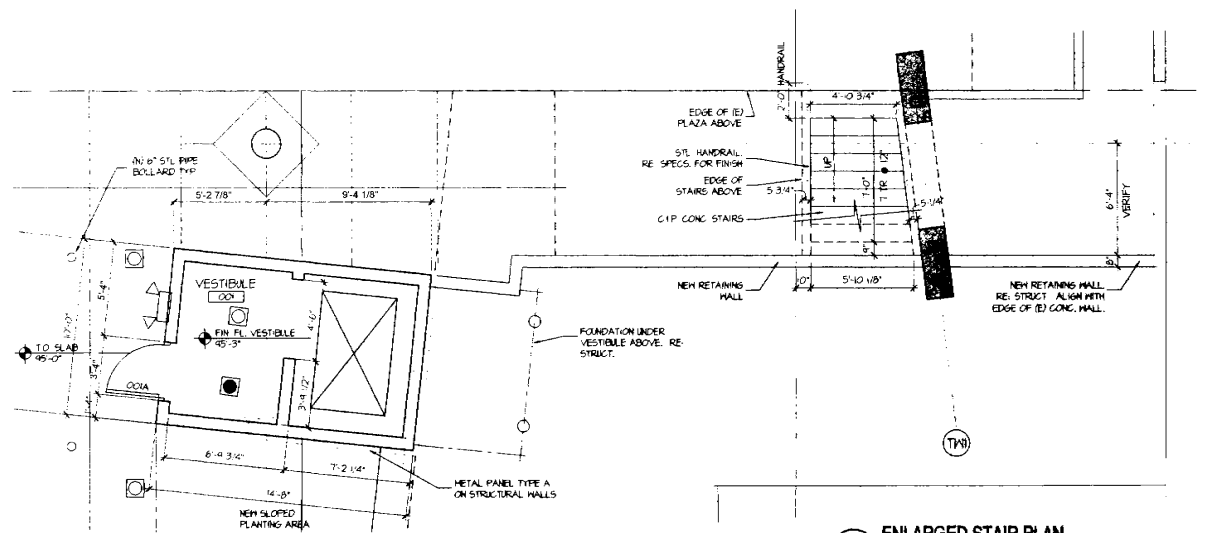
4 ENLARGED STAIR PLAN
SCALE: 1/4" = 1'-0"



3 ENLARGED STAIR PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED STAIR PLAN
SCALE: 1/4" = 1'-0"



1 ENLARGED STAIR PLAN
SCALE: 1/4" = 1'-0"

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

ENLARGED STAIR AND ELEVATOR PLANS

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Checked by:

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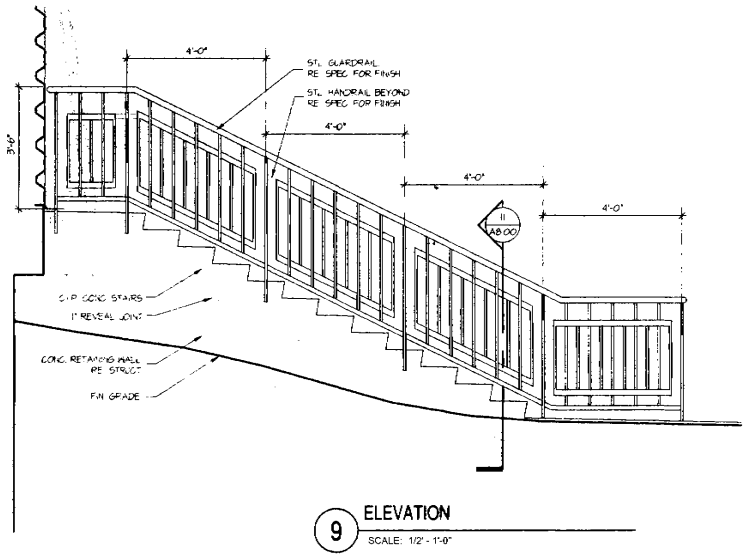

9 ELEVATION
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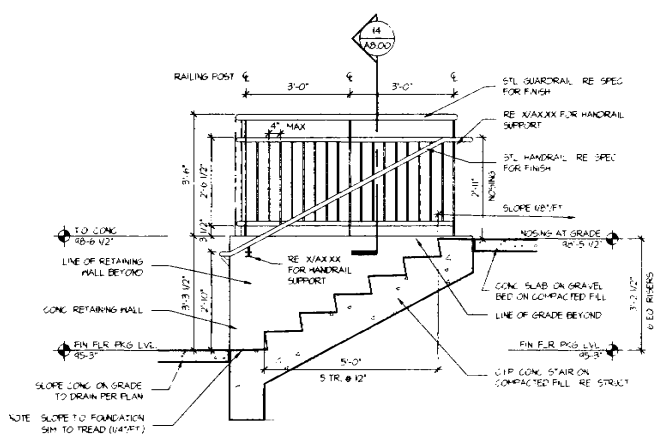
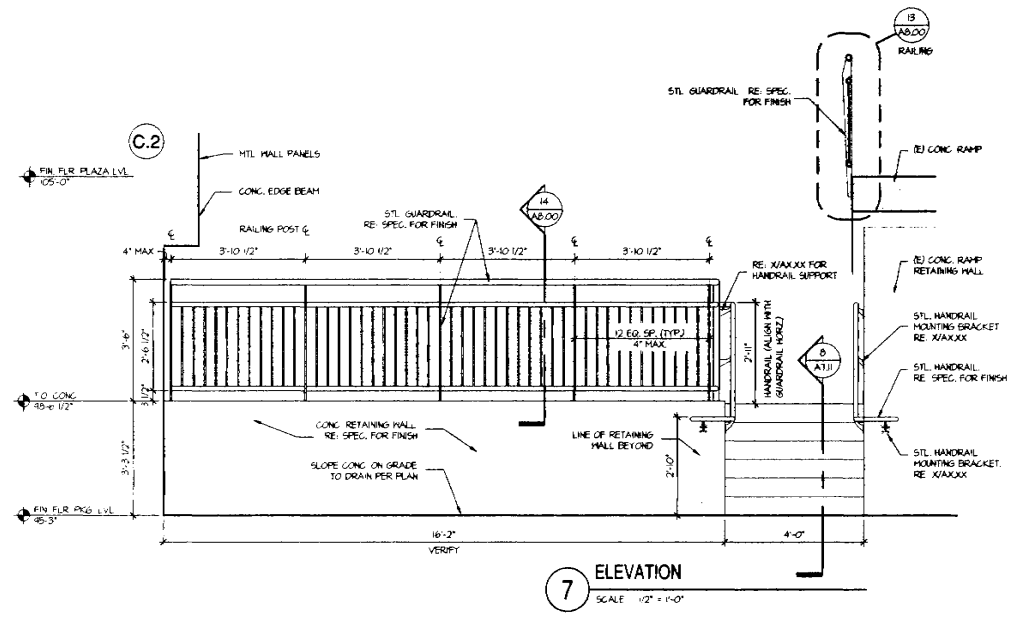


8 SECTION
SCALE: 1/2" = 1'-0"



7 ELEVATION
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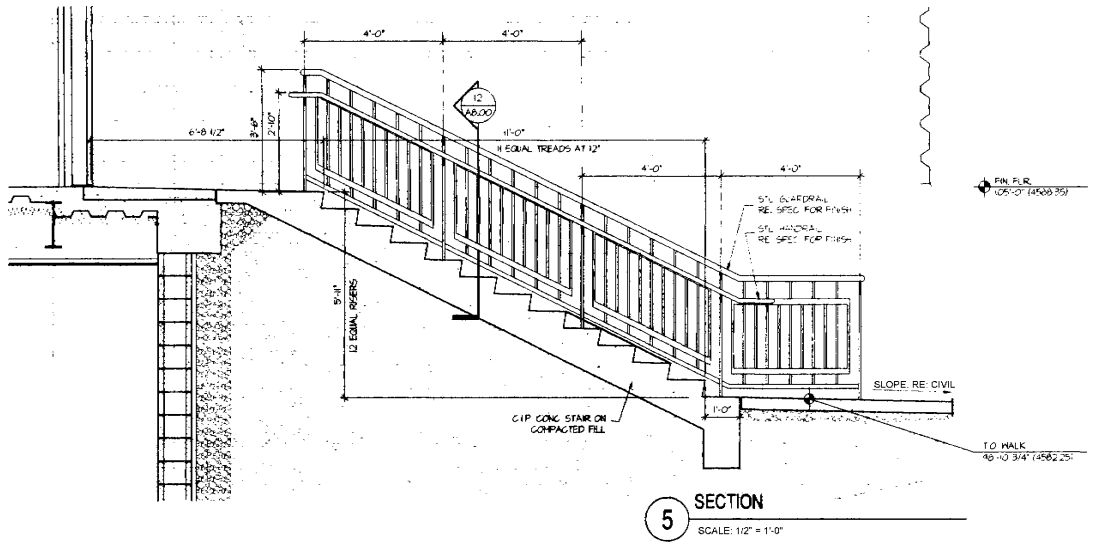

5 SECTION
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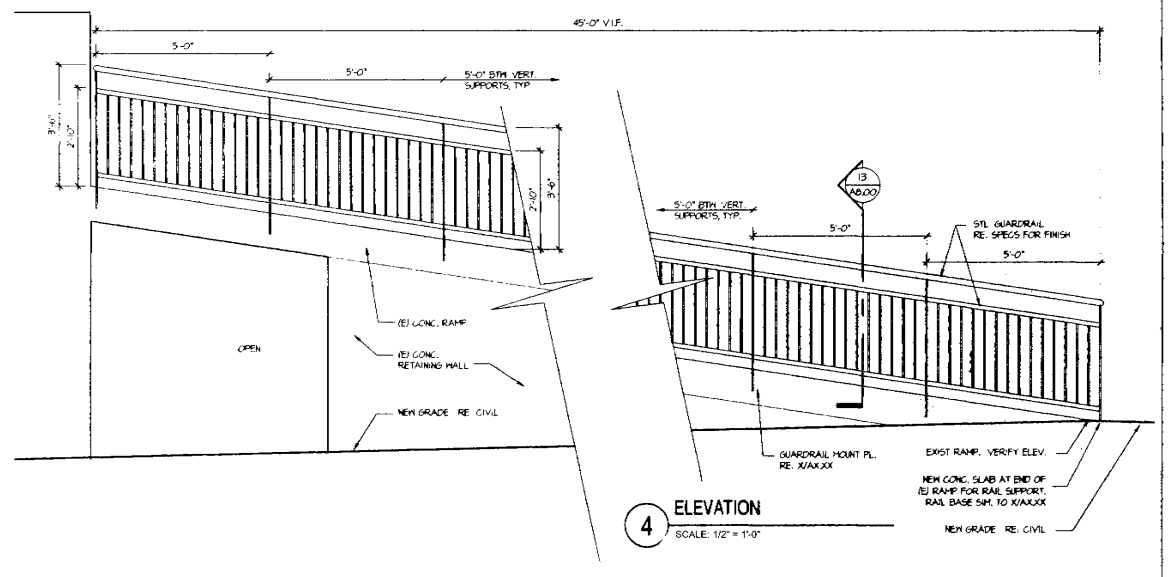
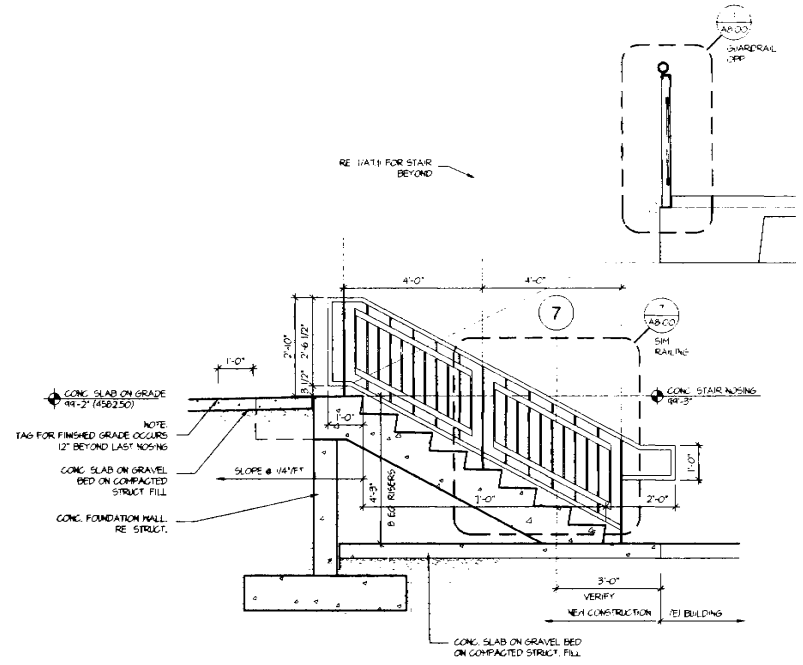


4 ELEVATION
SCALE: 1/2" = 1'-0"

3 NOT USED
SCALE: 1/2" = 1'-0"



2 SECTION
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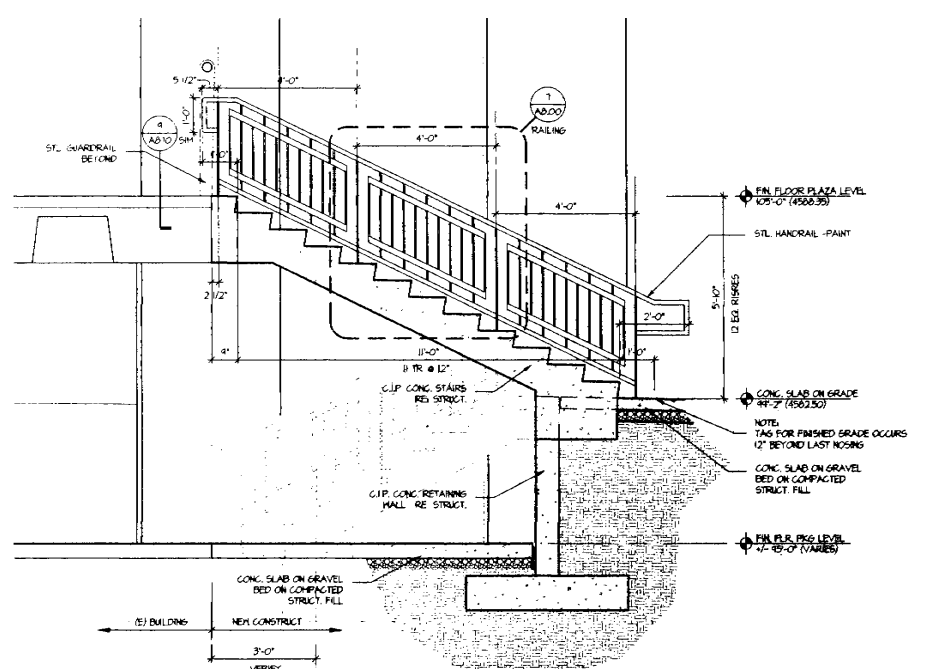

1 SECTION
SCALE: 1/2" = 1'-0"

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SINK COMBS DETHLEFS
A Professional Corporation for Architecture
225 Walnut Street, Suite 200, Denver, Colorado 80203
303 388 0200
FAX 388 0272

ISSUES/REVISIONS:	DATE:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

STAIR SECTIONS AND ELEVATIONS

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Checked by:

A7.11

09103759.tif

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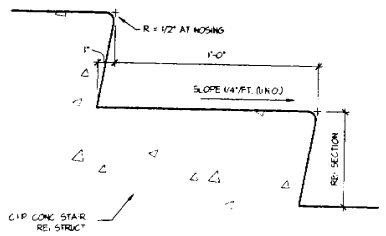
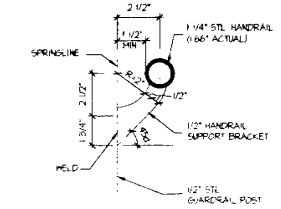
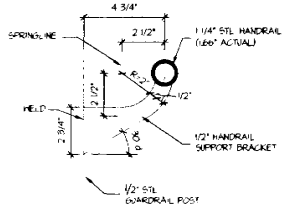
SINK COMBS DETHLEFFS
A Professional Corporation for Architecture
1375 Walnut Street, Suite 200, Denver, Colorado 80220
303 399 0200
FAX 303 399 0232



20 DETAIL — TYPICAL STAIRWAY TREAD
SCALE: 3" = 1'-0"



19 SECTION DETAIL
SCALE: 3" = 1'-0"



18 SECTION DETAIL
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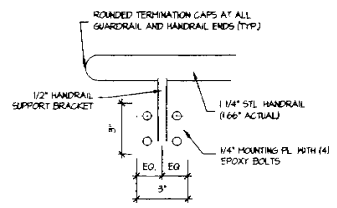
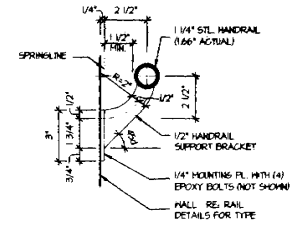
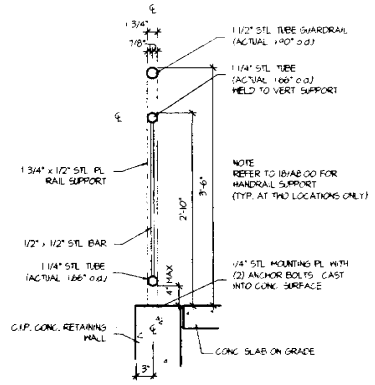


17 ELEVATION DETAIL
SCALE: 3" = 1'-0"

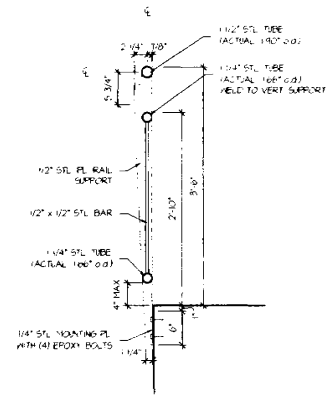


16 SECTION DETAIL
SCALE: 3" = 1'-0"

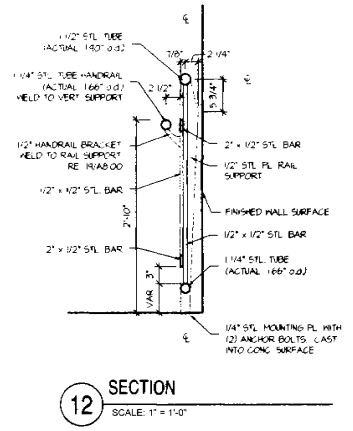
15 NOT USED
SCALE: 1" = 1'-0"



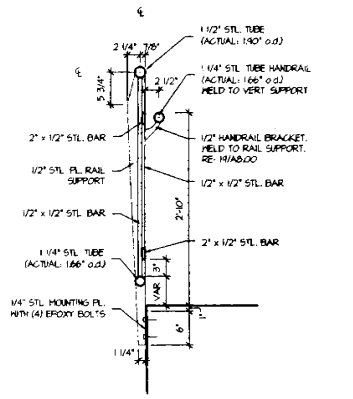
14 SECTION — GUARDRAIL
SCALE: 1" = 1'-0"



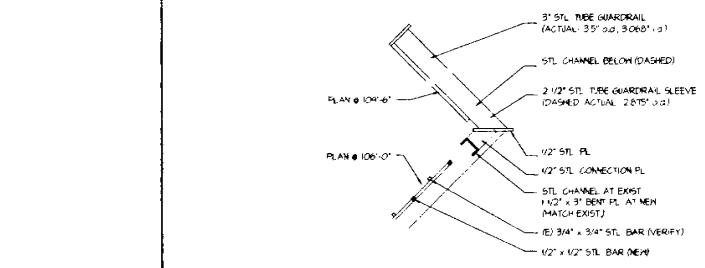
13 SECTION
SCALE: 1" = 1'-0"



12 SECTION
SCALE: 1" = 1'-0"

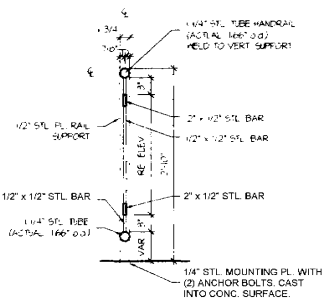


11 SECTION
SCALE: 1" = 1'-0"

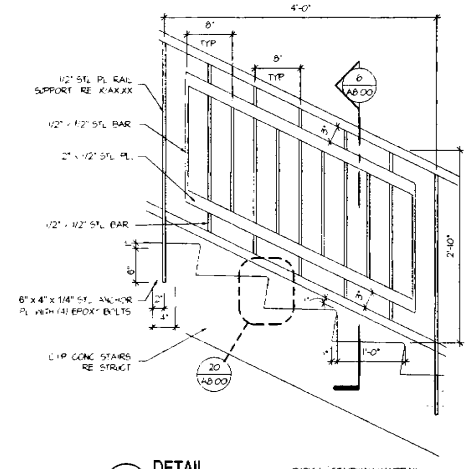


10 PLAN DETAIL — GUARDRAIL SUPPORT AT CORNER
SCALE: 1" = 1'-0"

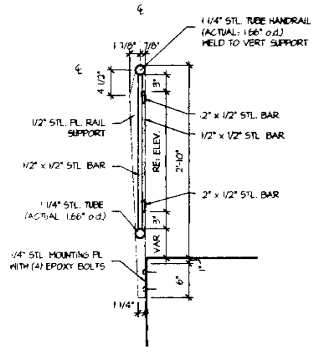
9 NOT USED
SCALE: 1" = 1'-0"



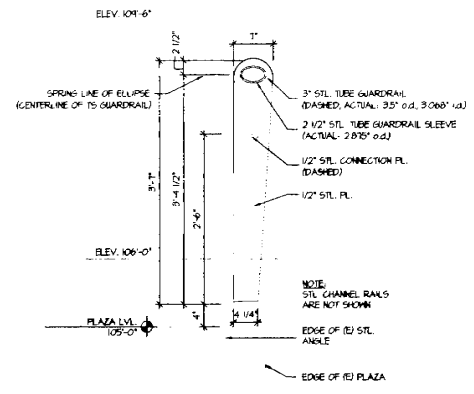
8 SECTION — TYPICAL STAIRWAY HANDRAIL
SCALE: 1" = 1'-0"



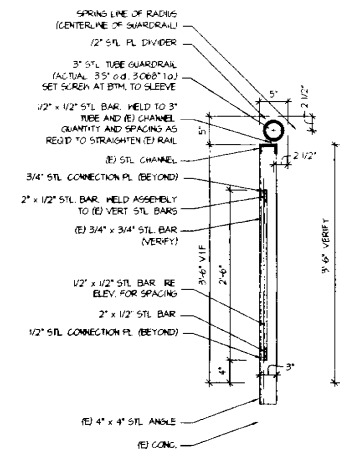
7 DETAIL — TYPICAL STAIRWAY HANDRAIL
SCALE: 1" = 1'-0"



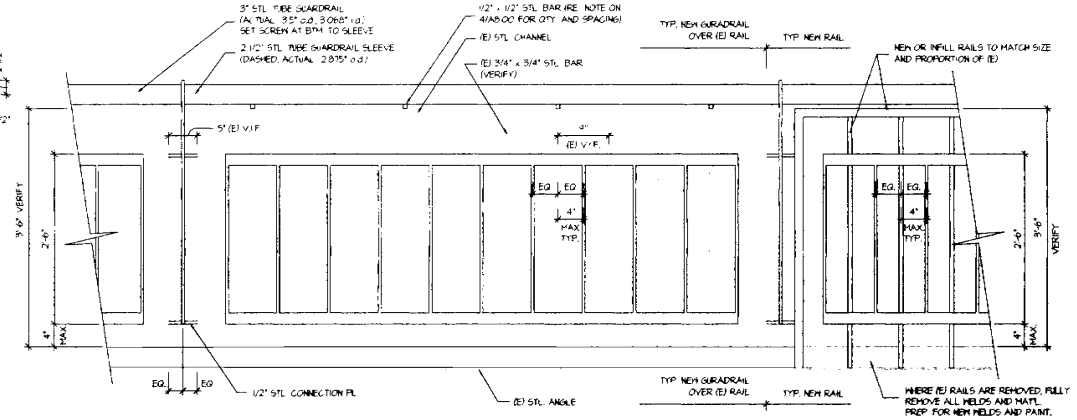
6 SECTION — TYPICAL STAIRWAY HANDRAIL
SCALE: 1" = 1'-0"



5 DETAIL — GUARDRAIL SUPPORT AT 45 d. CORNER
SCALE: 1" = 1'-0" (TRUE ELEVATION)

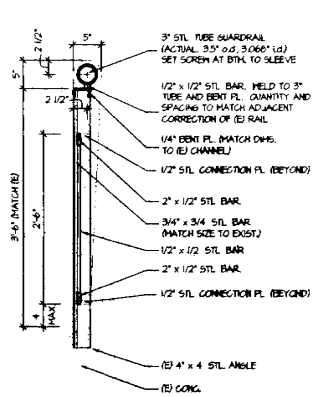


4 SECTION — (E) RAIL WITH CORRECTIVE GUARDRAIL
SCALE: 1" = 1'-0"



3 ELEVATION — (E) RAIL WITH CORRECTIVE GUARDRAIL
SCALE: 1" = 1'-0"

2 ELEVATION — NEW GUARDRAIL TO MATCH EXISTING
SCALE: 1" = 1'-0"



1 SECTION — NEW GUARDRAIL TO MATCH EXISTING
SCALE: 1" = 1'-0"

ISSUES/REVISIONS:	DATE:
SCHEMATIC DESIGN	4-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL EXC REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	5-16-01

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No 9924

RAILING DETAILS

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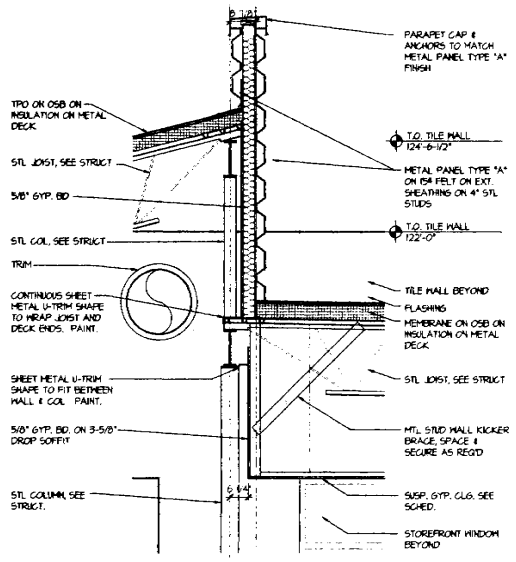
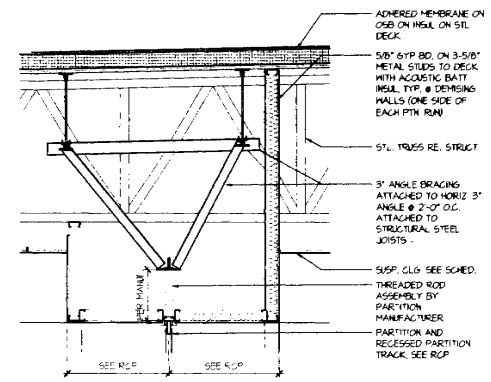


18 SECTION THRU DROP CLG @ LOBBY
SCALE: 1/2" = 1'-0"

NOT USED
SCALE: 1 1/2" = 1'-0"



16 SECTION PARTITION SUPPORT
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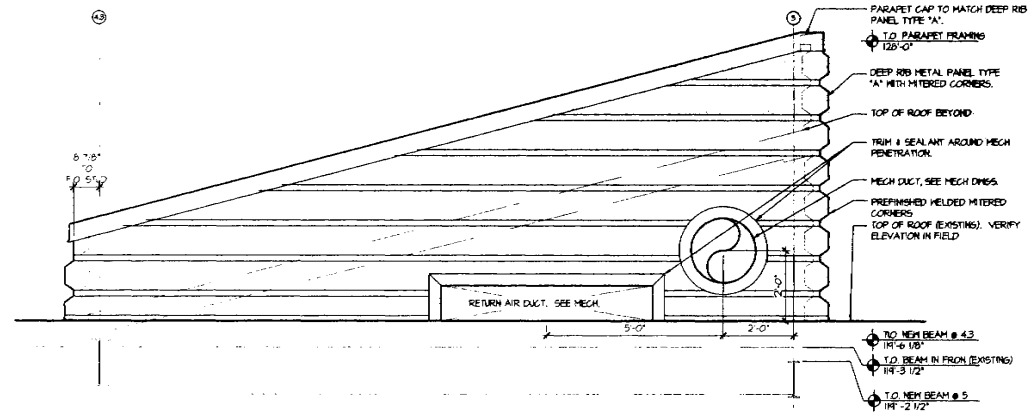
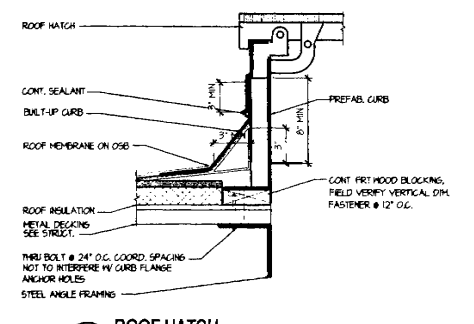
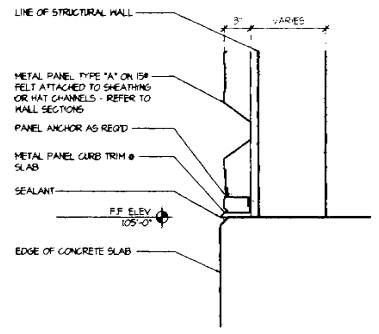


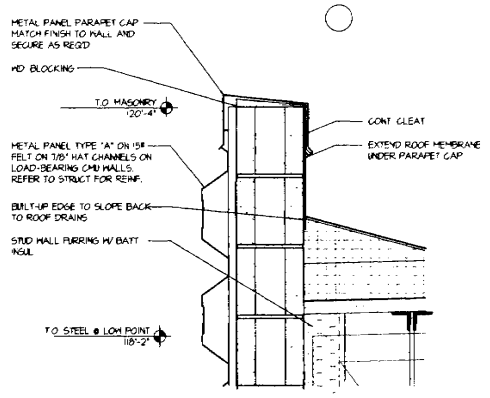
15 ELEVATION - WALL @ GRID H
SCALE: 1/2" = 1'-0"



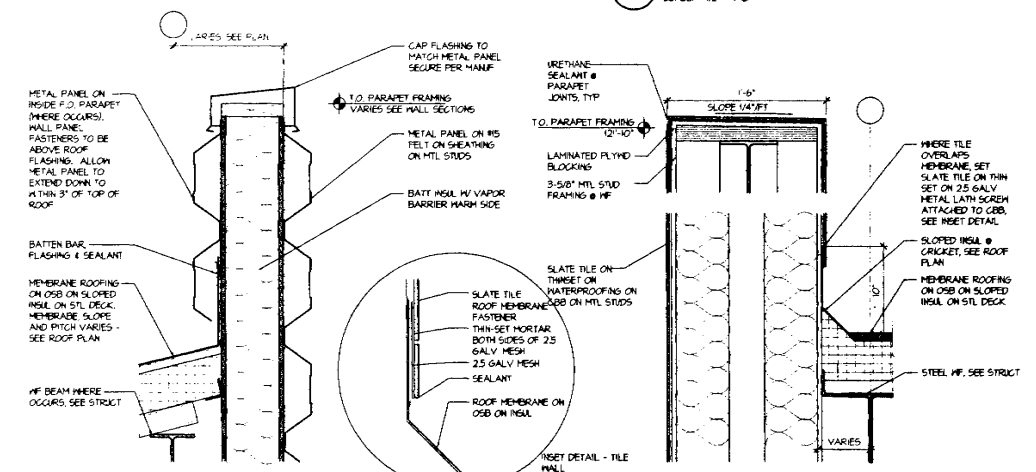
14 ROOF HATCH
SCALE: 1 1/2" = 1'-0"



13 TYP. METAL PANEL BASE DETAIL
SCALE: 1 1/2" = 1'-0"

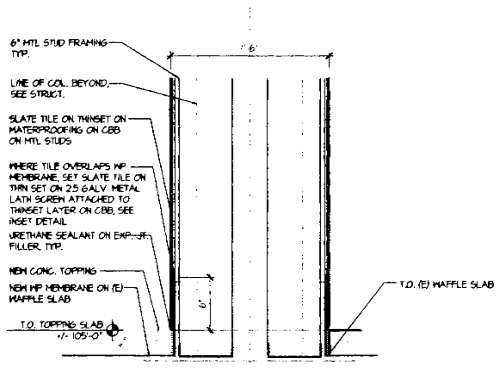


12 TYP. METAL PANEL CMU PARAPET
SCALE: 1 1/2" = 1'-0"

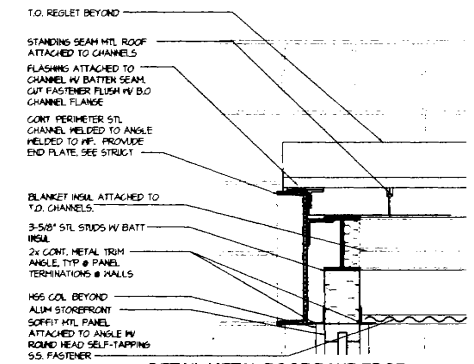


11 TYP. METAL PANEL PARAPET
SCALE: 1 1/2" = 1'-0"

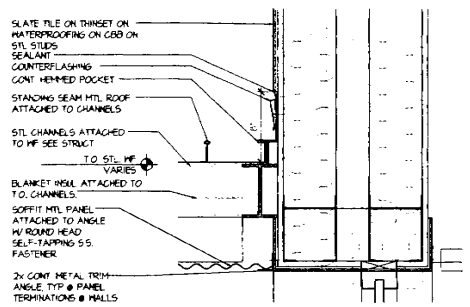
10 TYP. TILE ROOF PARPAPET
SCALE: 1 1/2" = 1'-0"



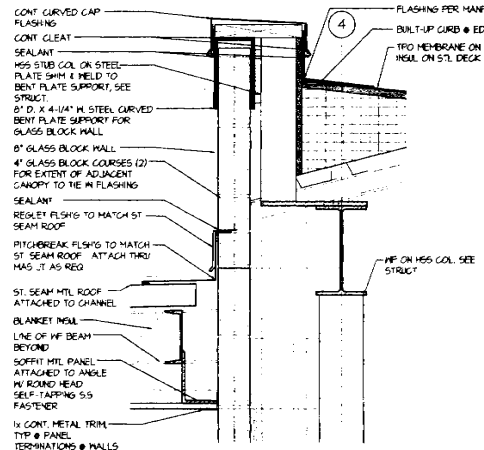
9 DETAIL TOPPING SLAB @ TILE WALL
SCALE: 1 1/2" = 1'-0"



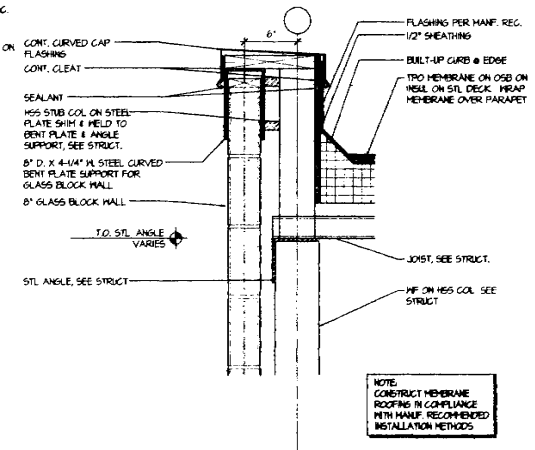
8 DETAIL METAL ROOF RAKE EDGE
SCALE: 1 1/2" = 1'-0"



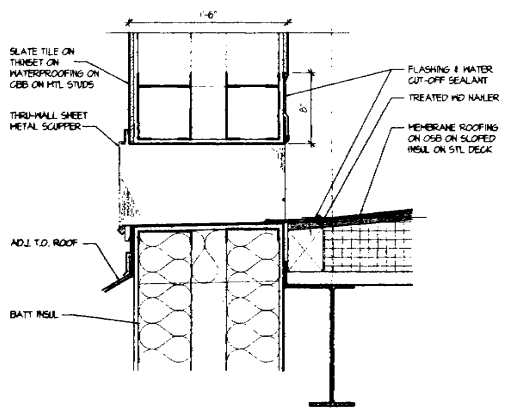
7 DETAIL METAL ROOF @ TILE WALL
SCALE: 1 1/2" = 1'-0"



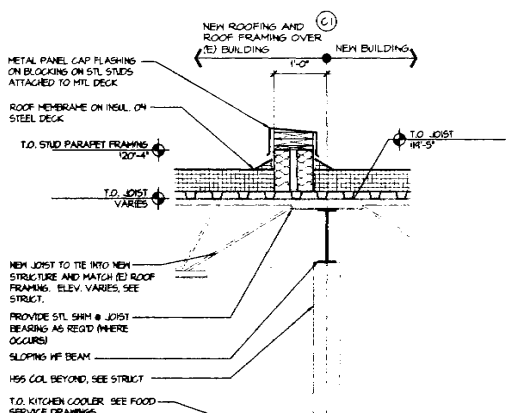
6 DETAIL - METAL ROOF / GB WALL
SCALE: 1 1/2" = 1'-0"



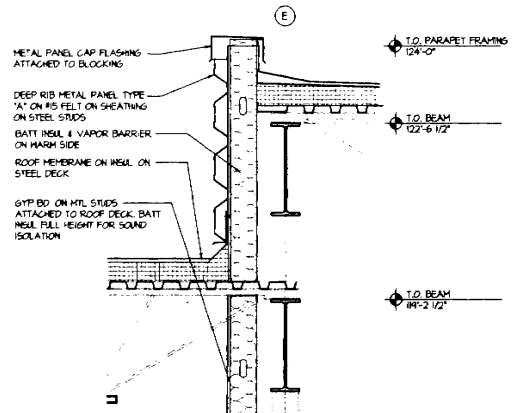
5 DETAIL - METAL ROOF / GB WALL
SCALE: 1 1/2" = 1'-0"



4 SCUPPER DETAIL
SCALE: 1 1/2" = 1'-0"



3 PARAPET DETAIL
SCALE: 3/4" = 1'-0"



2 PARAPET DETAIL
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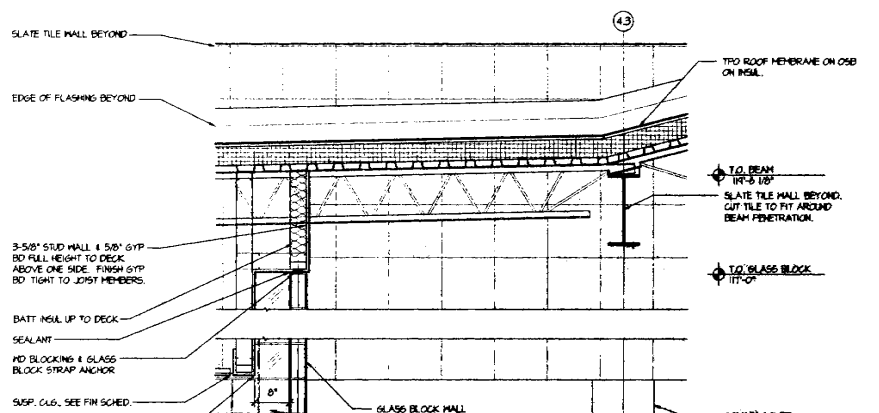

1 WALL/PARAPET DETAIL@ LOBBY
SCALE: 3/4" = 1'-0"

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SINK COMBS DETHLEFS
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for Architecture
225 Walnut Street, Suite 700
Denver, Colorado 80205
303 308 0200
FAX 308 0222

Issues/Revisions	Date
SCHEMATIC DESIGN	4-08-00
PROGRESS PRINT	1-30-00
DESIGN DEVELOPMENT	2-15-00
STEEL BID REFERENCE	3-28-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

PARAPET/ ROOF DETAILS

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SINK COMBS DETHLEFS

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2245 Market Street, Suite 200, Denver, Colorado 80202
303 308 8700
FAX 308 8272

10 **NOT USED**
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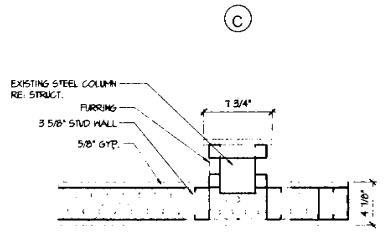

9 **DETAIL**
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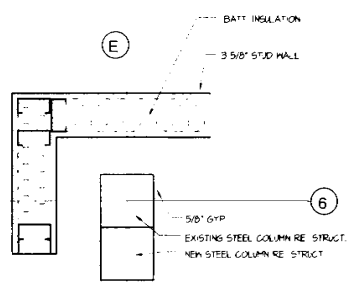

8 **DETAIL**
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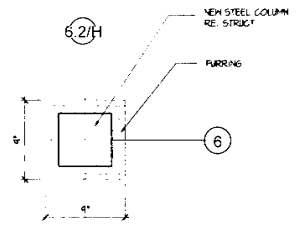
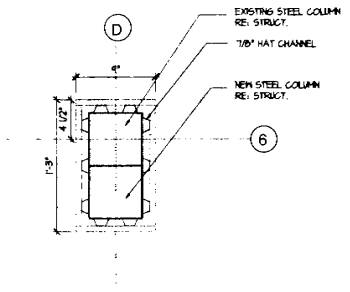
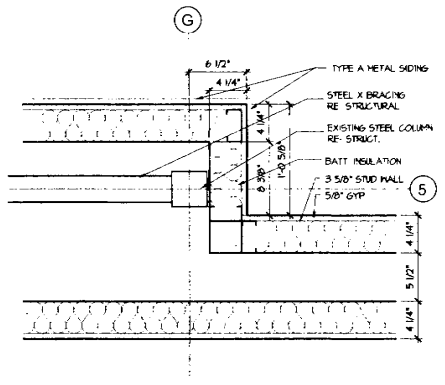


7 **DETAIL**
SCALE: 1 1/2" = 1'-0"

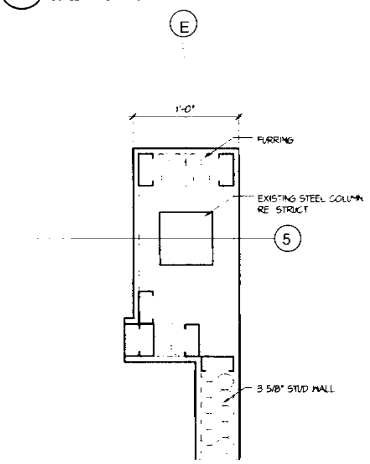


6 **DETAIL**
SCALE: 1 1/2" = 1'-0"

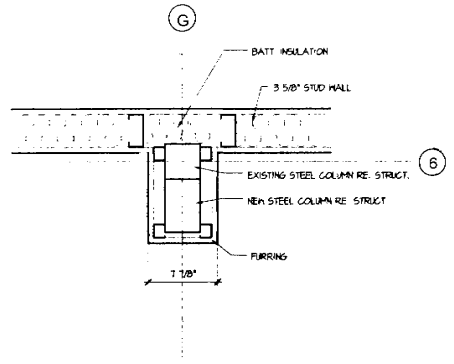
5 **NOT USED**
SCALE: 1 1/2" = 1'-0"



4 **DETAIL**
SCALE: 1 1/2" = 1'-0"



3 **DETAIL**
SCALE: 1 1/2" = 1'-0"



2 **DETAIL**
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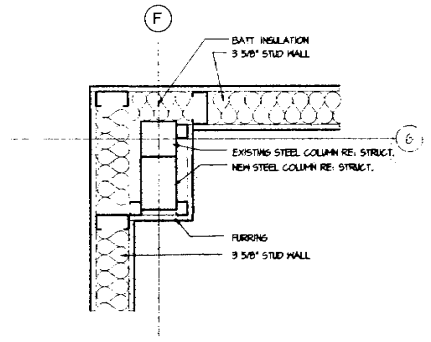

1 **DETAIL**
SCALE: 1 1/2" = 1'-0"

ISSUES/REVISIONS	Date:
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TWO RIVERS
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GRAND JUNCTION, COLORADO

SCD Project No.: 9924

PLAN DETAILS

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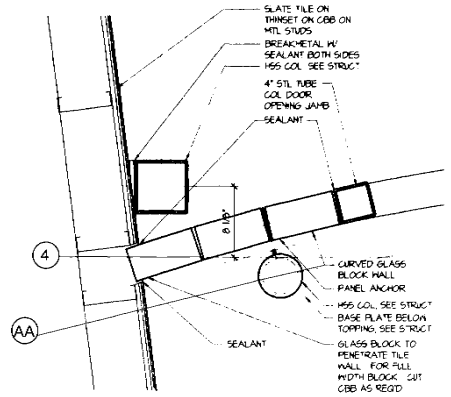

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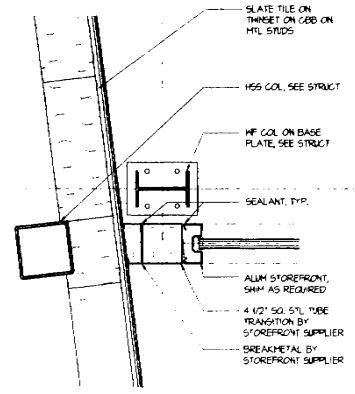

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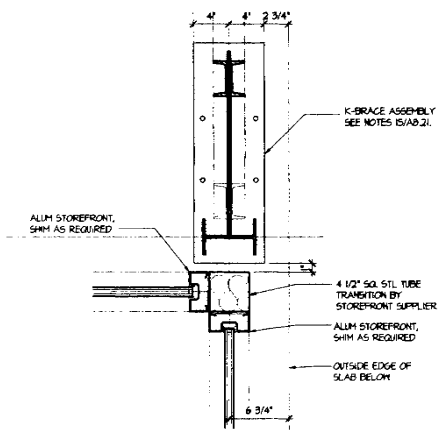
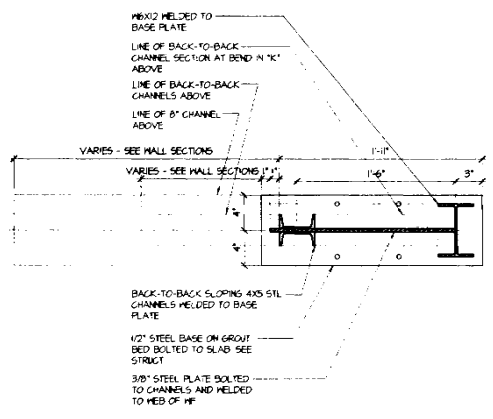


16 **DETAIL**
SCALE: 1 1/2" = 1'-0"

20 **NOT USED**
SCALE: 1 1/2" = 1'-0"

19 **NOT USED**
SCALE: 1 1/2" = 1'-0"



15 **DETAIL**
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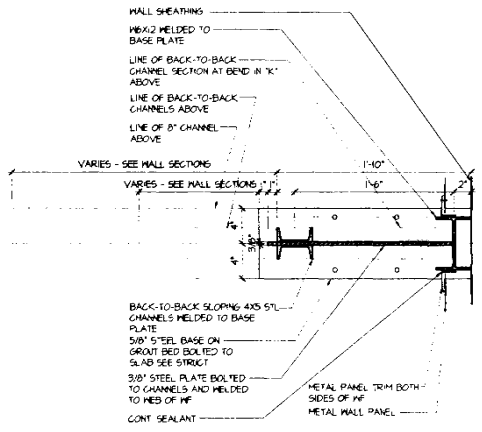
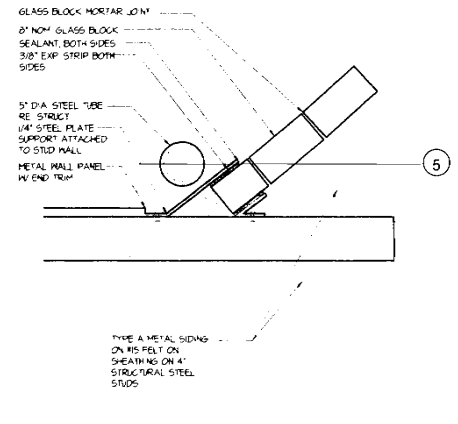


14 **DETAIL**
SCALE: 1 1/2" = 1'-0"



13 **DETAIL**
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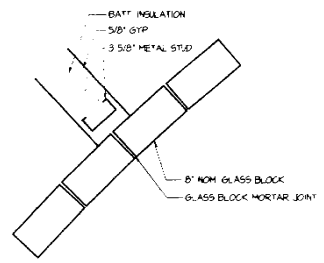

12 **DETAIL**
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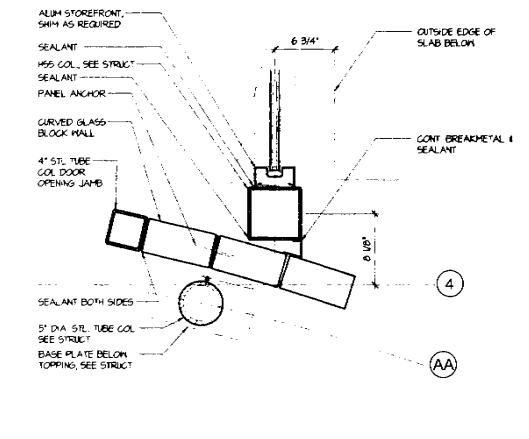

11 **DETAIL**
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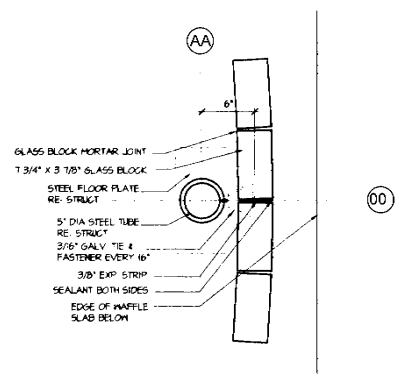

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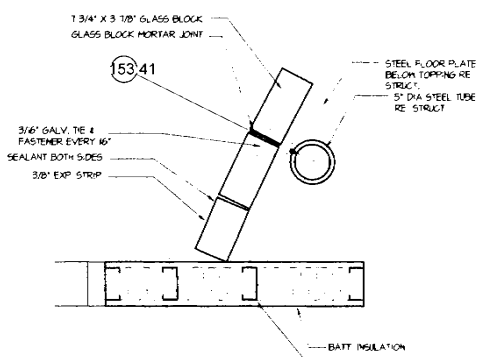

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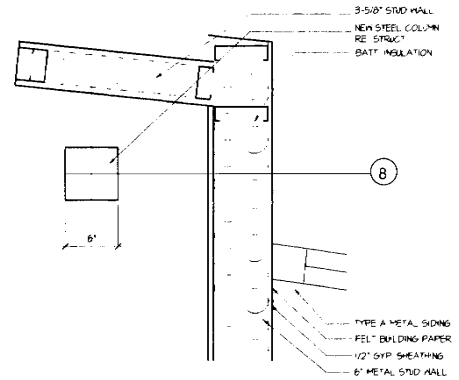

8 **DETAIL**
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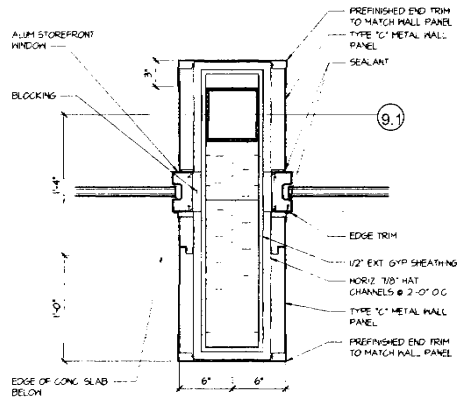
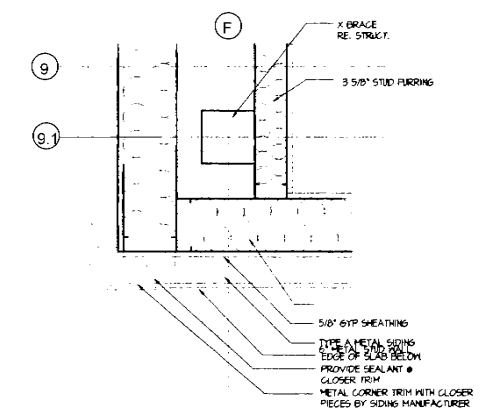
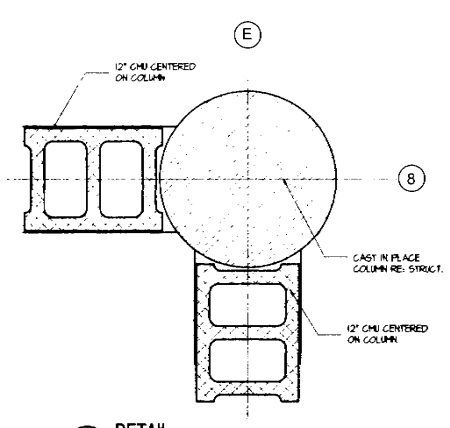


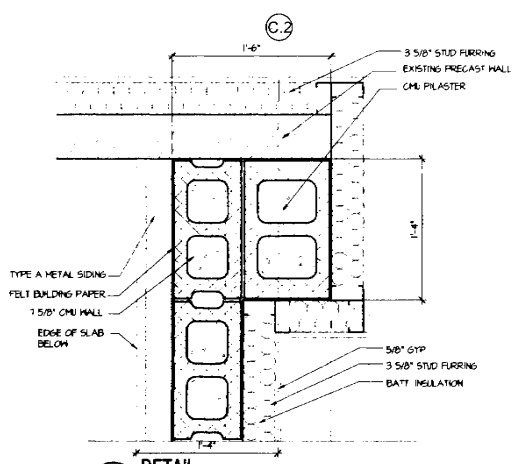
7 **DETAIL**
SCALE: 1 1/2" = 1'-0"



6 **DETAIL**
SCALE: 1 1/2" = 1'-0"



5 **DETAIL**
SCALE: 1 1/2" = 1'-0"



4 **DETAIL**
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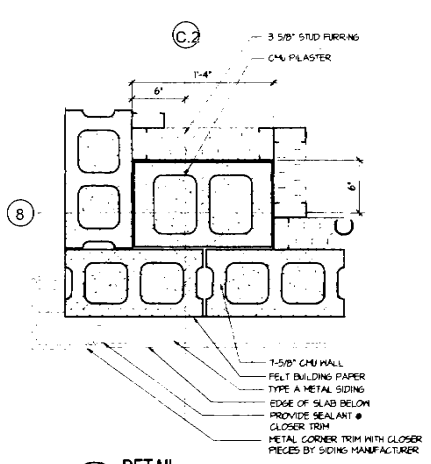
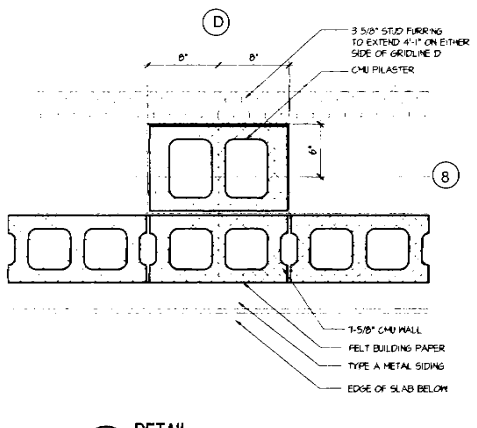


3 **DETAIL**
SCALE: 1 1/2" = 1'-0"



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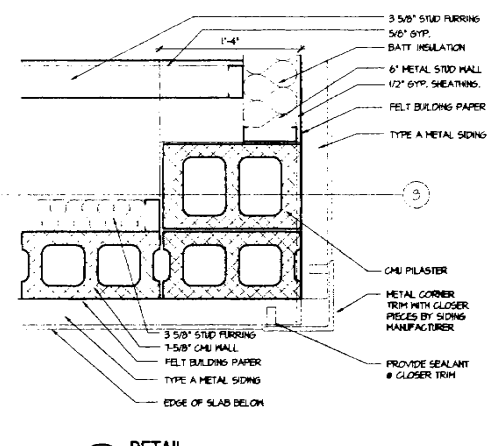

1 **DETAIL**
SCALE: 1 1/2" = 1'-0"

ISSUES/REVISIONS:	DATE
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

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PLAN DETAILS

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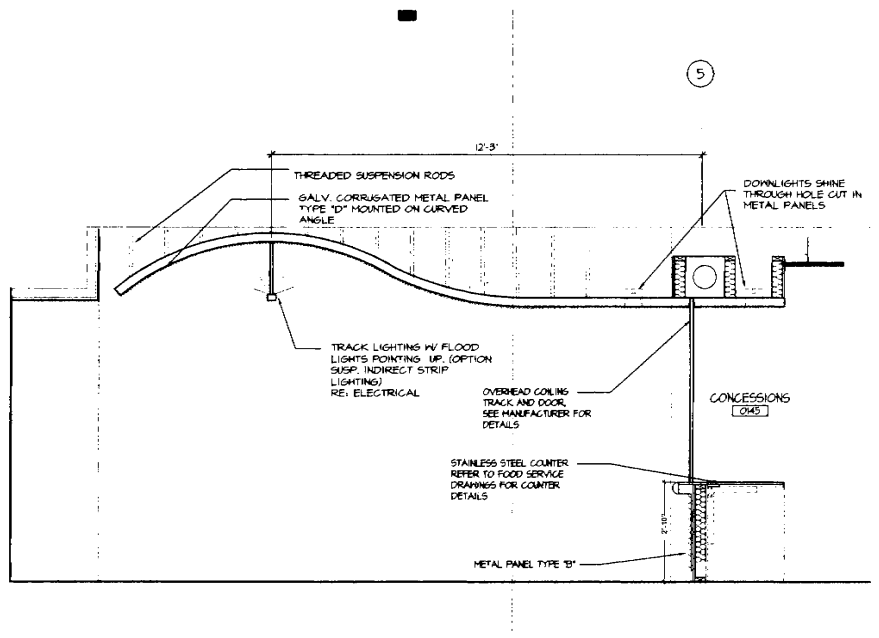
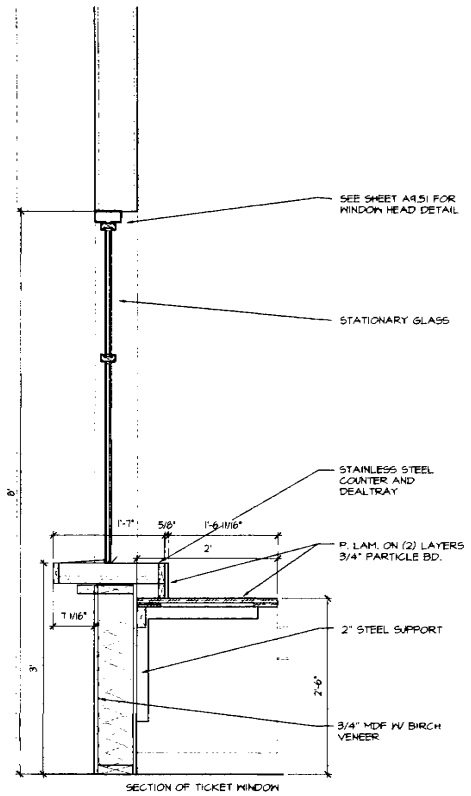
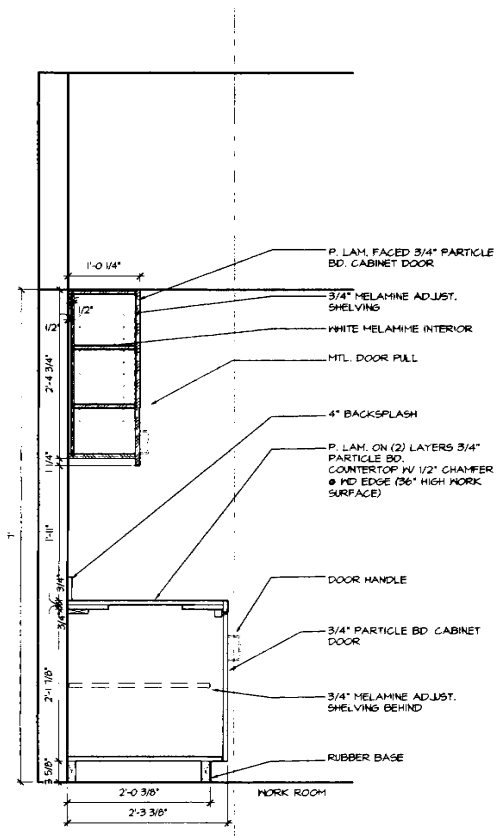


10 CONCESSION STAND
SCALE: 1/2" = 1'-0"



9 TICKET (106) WINDOW
SCALE: 1" = 1'-0"



8 WORK COUNTER & CABINETS
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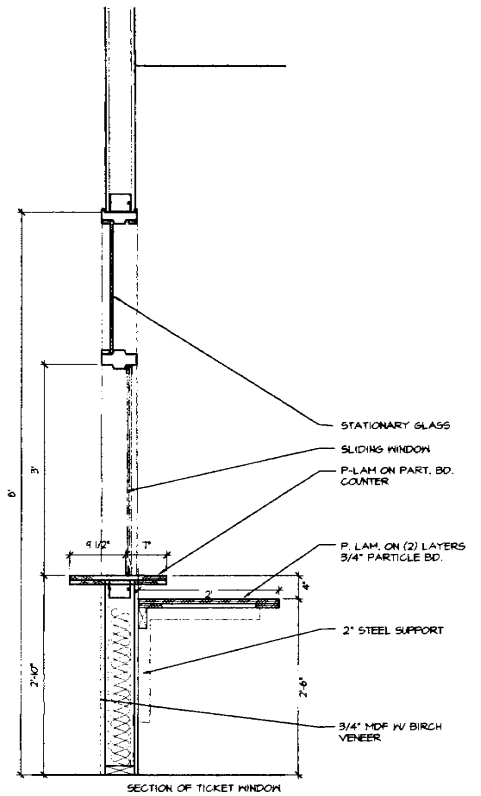

7 TICKET (104) WINDOW
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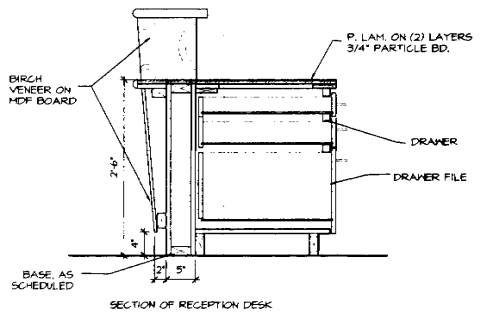
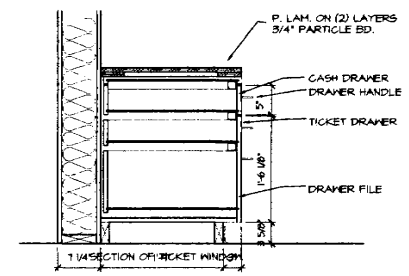


6 RECEPTION DESK
SCALE: 1" = 1'-0"



5 TICKET (106) COUNTER
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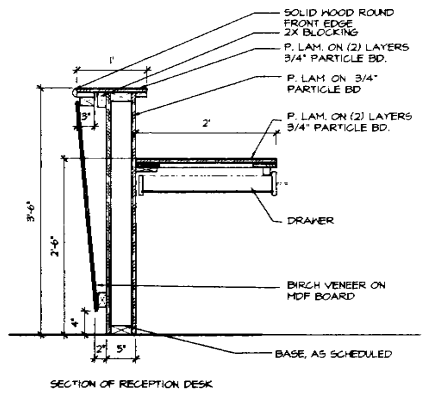
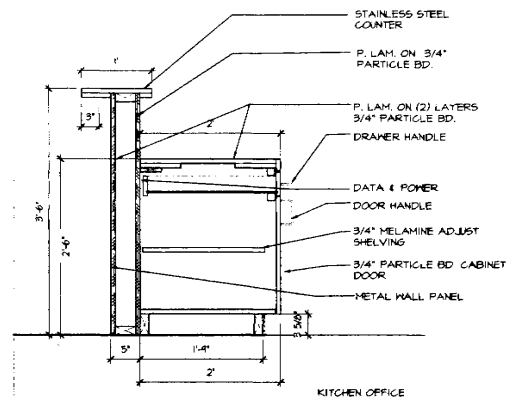
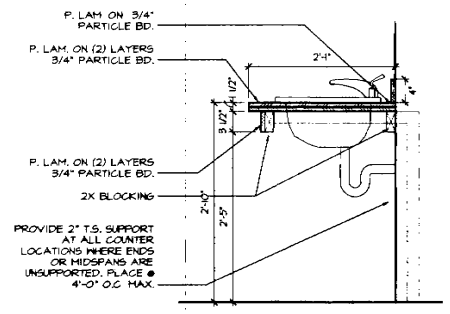


4 RECEPTION DESK
SCALE: 1" = 1'-0"



3 KITCHEN OFFICE COUNTER
SCALE: 1" = 1'-0"



2 TYPICAL VANITY COUNTER
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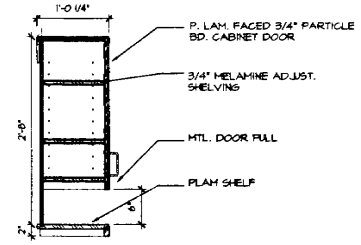

1 COPIER CABINET
SCALE: 1" = 1'-0"

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Issues/Revisions:	Date:
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

CASEWORK DETAILS

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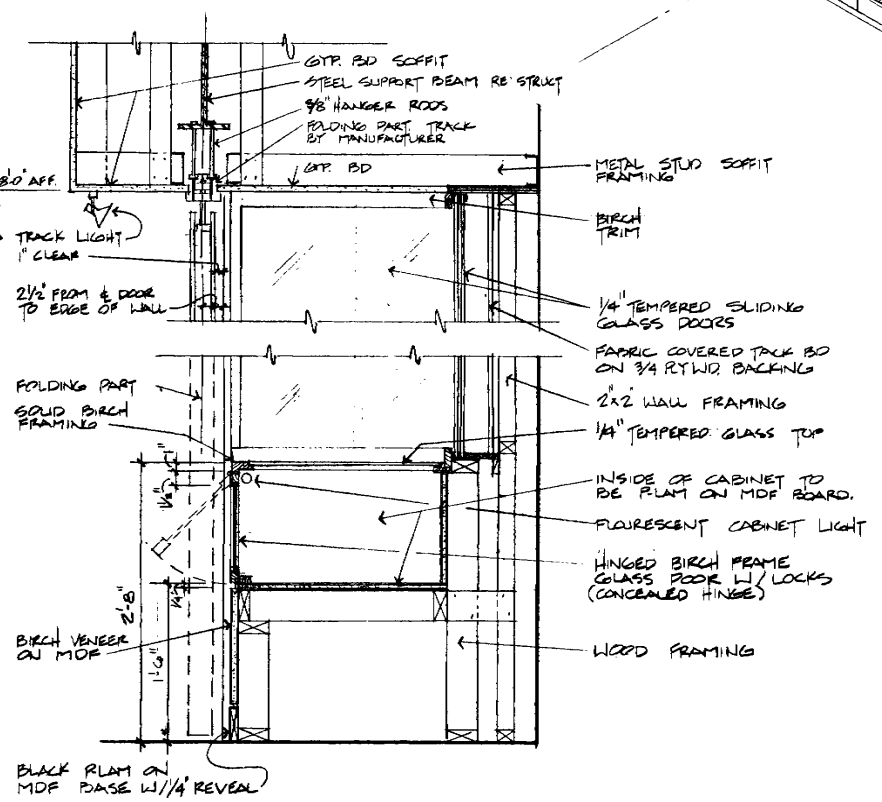
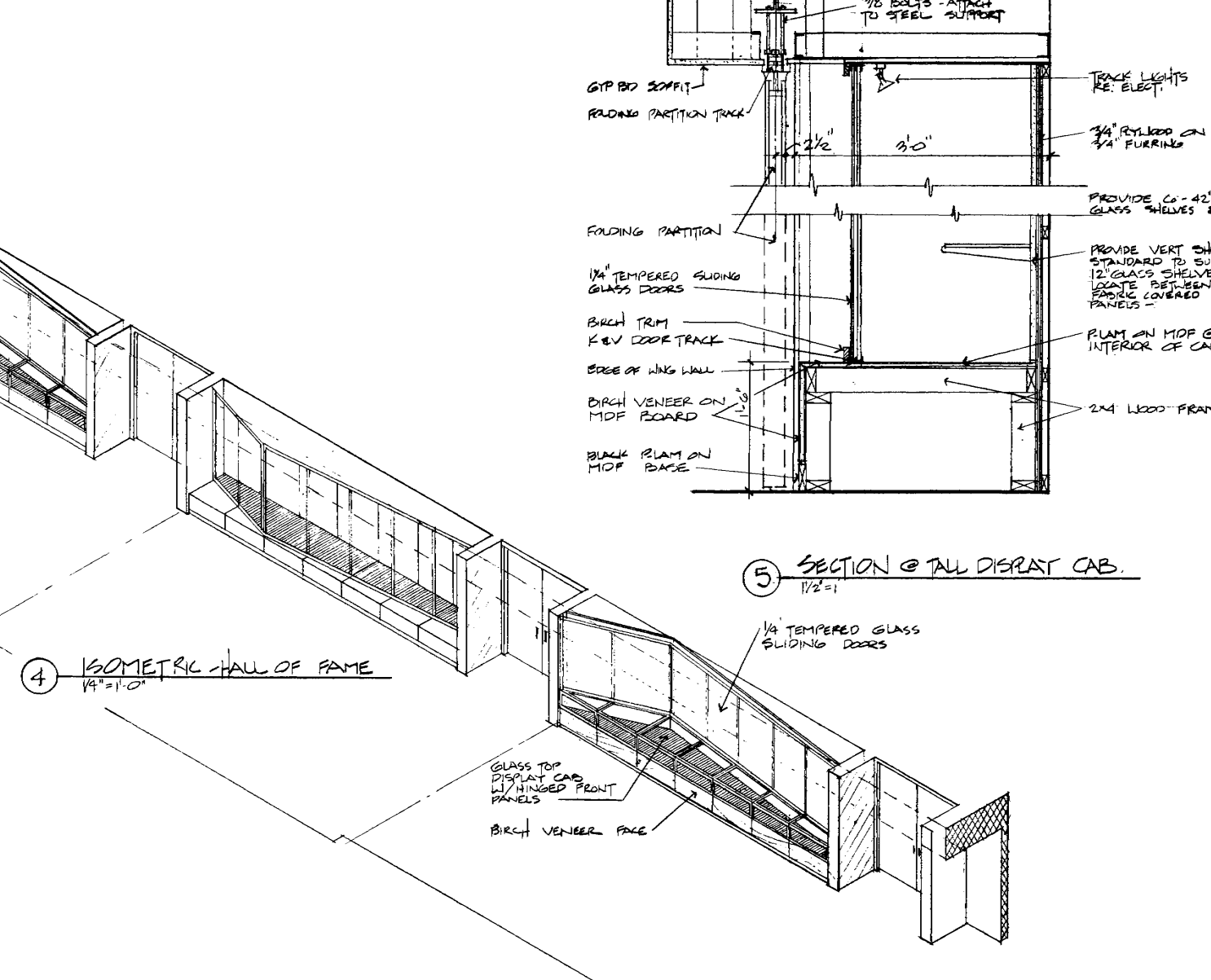
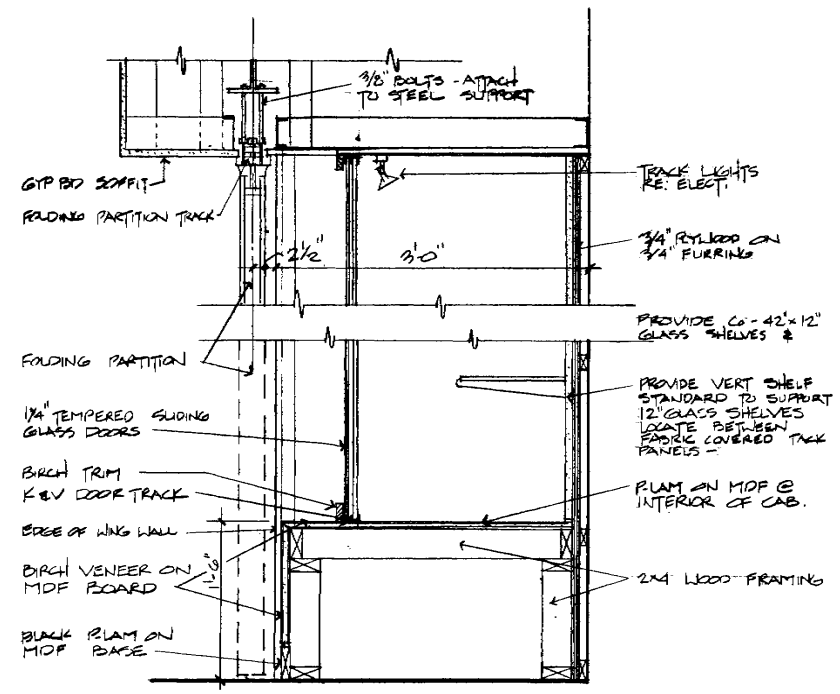


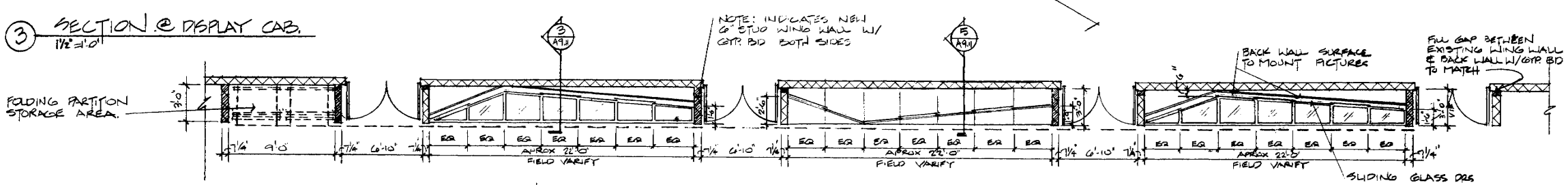
3 SECTION @ DISPLAY CAB.
1½"=1'-0"



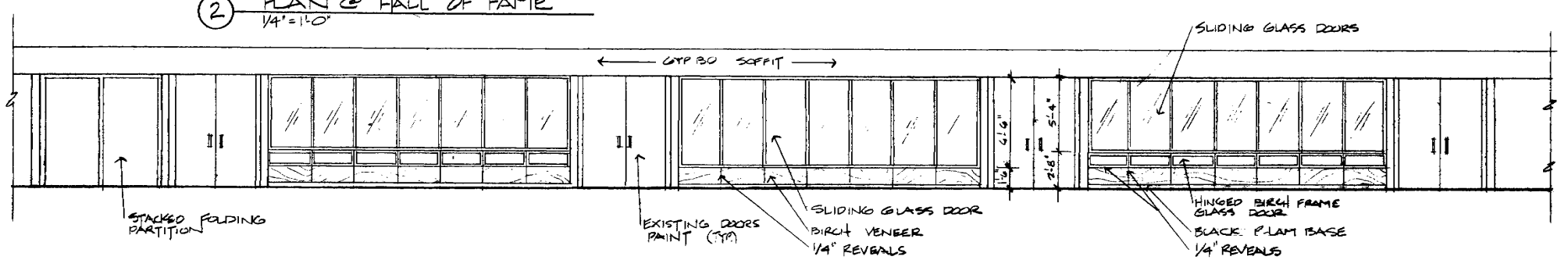
4 ISOMETRIC - HALL OF FAME
1/4"=1'-0"



5 SECTION @ TALL DISPLAY CAB.
1½"=1



2 PLAN @ HALL OF FAME
1/4"=1'-0"



1 ELEVATION @ HALL OF FAME
1/4"=1'-0"

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SINK COMBS DETHLEFS

CONST. DOC. 3/16/01
Issues / Revisions

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

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Checked by

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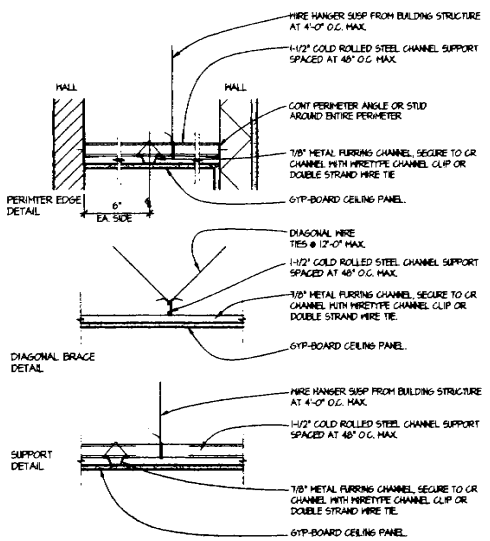
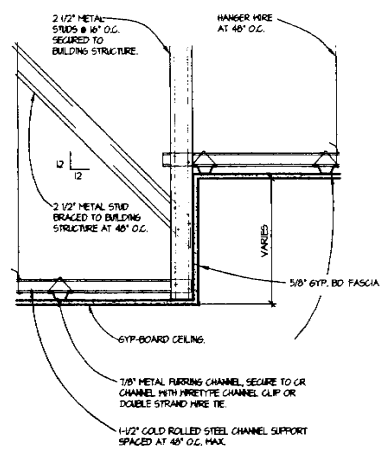
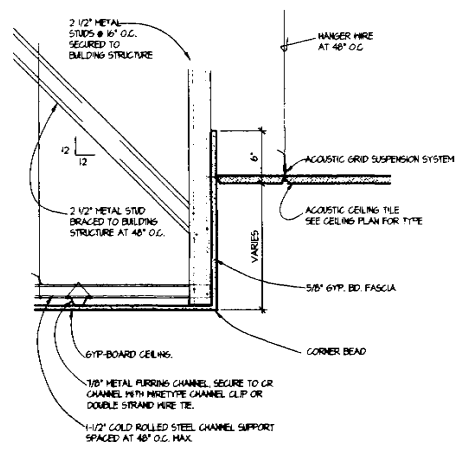
303 308 8303
FAX 308 0122



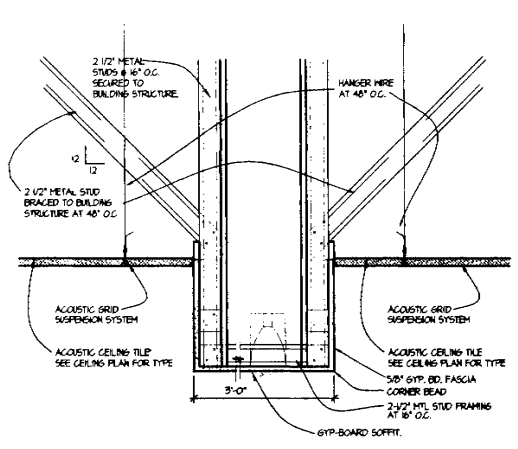
5 SUSPENSION SYSTEM AT GYP-BOARD
SCALE: 1 1/2" = 1'-0"



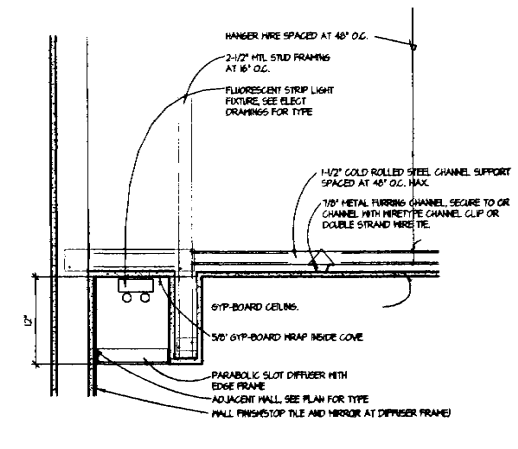
4 SOFFIT- GYP BOARD/ GYP. BOARD
SCALE: 1 1/2" = 1'-0"



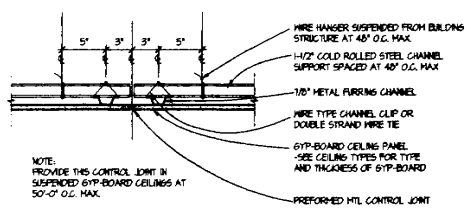
3 SOFFIT- GYP BOARD/ ACT
SCALE: 1 1/2" = 1'-0"



2 RECEPTION LIGHT COVE
SCALE: 1 1/2" = 1'-0"



1 RESTROOM LIGHT COVE
SCALE: 1 1/2" = 1'-0"



6 GYP BOARD CEILING CONTROL JOINT
SCALE: 1 1/2" = 1'-0"

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

CEILING DETAILS

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Checked by

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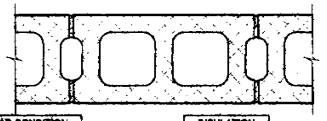
50 CONCRETE MASONRY UNIT WALL



NOTE: NOMINAL BLOCK DIMENSIONS UNFINISHED OR PAINTED - SEE ROOM FINISH SCHEDULE -

WIDTH OF BLOCK
- A 4" STANDARD BLOCK
- B 6" STANDARD BLOCK
- C 8" STANDARD BLOCK
- D 10" STANDARD BLOCK
- E 12" STANDARD BLOCK
- F 4" SCORED BLOCK
- G 6" SCORED BLOCK
- H 8" SCORED BLOCK
- I NOT USED
- J 10" SCORED BLOCK
- K 12" SCORED BLOCK
- L 4" GROUND FACE BLOCK
- M 6" GROUND FACE BLOCK
- N 8" GROUND FACE BLOCK
- O 10" GROUND FACE BLOCK
- P 12" GROUND FACE BLOCK
- Q 4" SPLIT FACE BLOCK
- R 6" SPLIT FACE BLOCK
- S 8" SPLIT FACE BLOCK
- T 10" SPLIT FACE BLOCK
- U 12" SPLIT FACE BLOCK
- V 4" GLAZED FACE BLOCK
- W 6" GLAZED FACE BLOCK
- X 8" GLAZED FACE BLOCK
- Y 10" GLAZED FACE BLOCK
- Z 12" GLAZED FACE BLOCK

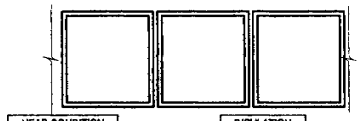
HEAD CONDITION
1. EXTEND CMU AND SOUND INSULATION (WHERE SCHEDULED) TO STRUCTURE ABOVE
2. TERMINATE CMU AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE FINISHED CEILING
3. TERMINATE CMU AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE FINISHED CEILING - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 45° O.C.
4. TERMINATE CMU AND SOUND INSULATION (WHERE SCHEDULED) 1/4" BELOW FINISHED CEILING
5. NOT USED
6. TERMINATE CMU AT COUNTER HEIGHT
7. TERMINATE CMU AT 12'-8"

INSULATION
- A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- U UNINSULATED

SHEATHING
1. DEEP RIBBED METAL PANELS

FIRE RATING
- R1 1 HOUR WALL - UL# U905
- R2 2 HOUR WALL - 8" BLOCK UL# 905 6" BLOCK UL# 906
- R3 3 HOUR WALL - UL# U904
- R4 4 HOUR WALL - UL# U904

54 GLASS BLOCK WALL

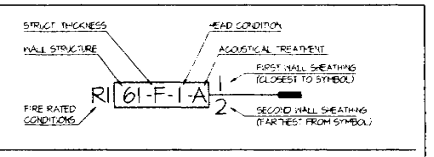


WIDTH OF BLOCK
- A 4" STANDARD BLOCK
- B 6" STANDARD BLOCK
- C 8" STANDARD BLOCK
- D 10" STANDARD BLOCK
- E 12" STANDARD BLOCK

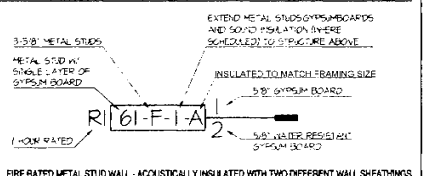
HEAD CONDITION

INSULATION
- A INSULATED CELLS

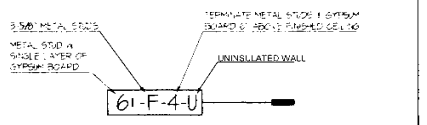
FIRE RATING
- R1 1 HOUR WALL - UL# U905
- R2 2 HOUR WALL - 8" BLOCK UL# 905 6" BLOCK UL# 906



LEGEND



EXAMPLE 1: FIRE RATED METAL STUD WALL - ACOUSTICALLY INSULATED WITH TWO DIFFERENT WALL SHEATHINGS



EXAMPLE 2: METAL STUD WALL WITH STANDARD 5/8" GYPSUM BOARD SHEATHING BOTH SIDES

60 METAL STUD W/ SINGLE LAYER GYPSUM BOARD ONE SIDE

WIDTH OF FRAMING
- A 7/8" FURRING CHANNEL
- B 1-1/2" FURRING CHANNEL
- C 1-5/8" METAL STUDS
- D 2-1/2" METAL STUDS
- E 3-1/2" METAL STUDS
- F 3-5/8" METAL STUDS
- G 4" METAL STUDS
- H 5-1/2" METAL STUDS
- I NOT USED
- J 6" METAL STUDS
- K 7-1/4" METAL STUDS
- L 8" METAL STUDS
- M 9-1/4" METAL STUDS
- N 10" METAL STUDS
- O 11-1/2" METAL STUDS
- P 12" METAL STUDS

HEAD CONDITION
1. EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS BOTH SIDES) TO STRUCTURE ABOVE
2. EXTEND METAL STUDS TO STRUCTURE ABOVE - TERMINATE GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - (GYP CEILINGS TERMINATE AT FINISHED CEILING)
3. TERMINATE METAL STUDS, GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - (GYP CEILINGS TERMINATE AT FINISHED CEILING) - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 45° O.C.
4. NOT USED
5. NOT USED
6. TERMINATE METAL STUDS AND GYPSUM BOARDS (BOTH SIDES) TO COUNTER HEIGHT

INSULATION
- A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- U UNINSULATED

SHEATHING
1. 5/8 GYPSUM BOARD
2. 5/8 WATER RESISTANT GYPSUM BOARD
3. 1/2 FIBERGLASS REINFORCED CONCRETE BOARD
4. 5/8 IMPACT RESISTANT GYPSUM BOARD

FIRE RATING

NOTE: TYPICAL SHEATHING - 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED

61 METAL STUD W/ SINGLE LAYER GYPSUM BOARD BOTH SIDES

NOTE: TYPICAL SHEATHING - 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED

WIDTH OF FRAMING
- A
- B
- C 1-5/8" METAL STUDS
- D 2-1/2" METAL STUDS
- E 3-1/2" METAL STUDS
- F 3-5/8" METAL STUDS
- G 4" METAL STUDS
- H 5-1/2" METAL STUDS
- I NOT USED
- J 6" METAL STUDS
- K 7-1/4" METAL STUDS
- L 8" METAL STUDS
- M 9-1/4" METAL STUDS
- N 10" METAL STUDS
- O 11-1/2" METAL STUDS
- P 12" METAL STUDS

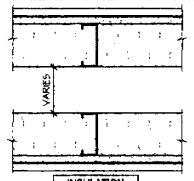
HEAD CONDITION
1. EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) TO STRUCTURE ABOVE
2. EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARD (ONE SIDE) TO STRUCTURE ABOVE - TERMINATE OTHER SIDE OF GYPSUM BOARD 6" ABOVE ACT CEILINGS - (GYP CEILINGS TERMINATE AT FINISHED CEILING)
3. EXTEND METAL STUDS, TO STRUCTURE ABOVE - TERMINATE BOTH SIDES OF GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - (GYP CEILINGS TERMINATE AT FINISHED CEILING)
4. TERMINATE METAL STUDS, BOTH SIDES OF GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - (GYP CEILINGS TERMINATE AT FINISHED CEILING) - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 45° O.C.
5. TERMINATE METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) AT FINISHED CEILING
6. TERMINATE METAL STUDS AND GYPSUM BOARDS (BOTH SIDES) TO COUNTER HEIGHT

INSULATION
- A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- U UNINSULATED

SHEATHING
1. 5/8 GYPSUM BOARD
2. 5/8 WATER RESISTANT GYPSUM BOARD
3. 1/2 FIBERGLASS REINFORCED CONCRETE BOARD
4. 5/8 IMPACT RESISTANT GYPSUM BOARD

FIRE RATING
- R1 1 HOUR WALL - UL# U419

63 METAL STUD CHASE WALL W/ SINGLE OR DOUBLE LAYERS OF GYPSUM BOARD BOTH SIDES



WIDTH OF FRAMING BOTH SIDES
- A
- B
- C 1-5/8" METAL STUDS
- D 2-1/2" METAL STUDS
- E 3-1/2" METAL STUDS
- F 3-5/8" METAL STUDS
- G 4" METAL STUDS
- H 5-1/2" METAL STUDS
- I NOT USED
- J 6" METAL STUDS
- K 7-1/4" METAL STUDS
- L 8" METAL STUDS

HEAD CONDITION
1. EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) TO STRUCTURE ABOVE
2. EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARD (ONE SIDE) TO STRUCTURE ABOVE - TERMINATE OTHER SIDE OF GYPSUM BOARD 6" ABOVE ACT CEILINGS - (GYP CEILINGS TERMINATE AT FINISHED CEILING)
3. EXTEND METAL STUDS TO STRUCTURE ABOVE - TERMINATE BOTH SIDES OF GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - (GYP CEILINGS TERMINATE AT FINISHED CEILING)
4. TERMINATE METAL STUDS, BOTH SIDES OF GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - (GYP CEILINGS TERMINATE AT FINISHED CEILING) - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 45° O.C.

INSULATION
- A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- U UNINSULATED

SHEATHING
1. 5/8 GYPSUM BOARD
2. 5/8 WATER RESISTANT GYPSUM BOARD
3. 1/2 FIBERGLASS REINFORCED CONCRETE BOARD
4. 5/8 IMPACT RESISTANT GYPSUM BOARD

FIRE RATING
- R1 1 HOUR WALL - UL# U420
- R2 2 HOUR WALL - UL# U420

65 METAL C-T / C-H STUD SHAFT WALL

NOTE: TYPICAL SHEATHING - 1" GYPSUM LINER PANELS (SHAFT SIDE) 5/8" GYPSUM BOARD (FLOOR SIDE) UNLESS OTHERWISE NOTED

WIDTH OF FRAMING
- A 2-1/2" C-T / C-H STUD
- B 4" C-T / C-H STUD
- C 6" C-T / C-H STUD

HEAD CONDITION
1. EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) TO STRUCTURE ABOVE

INSULATION
- A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
- U UNINSULATED

SHEATHING
1. 5/8" GYPSUM BOARD
2. 5/8 WATER RESISTANT GYPSUM BOARD
3. 1/2 FIBERGLASS REINFORCED CONCRETE BOARD
4. 5/8 IMPACT RESISTANT GYPSUM BOARD
5. 1" GYPROC FIREGUARD TYPE X/ SHAFTLINER

FIRE RATING
- R1 1 HOUR WALL - C-T/C-H STUD UL# U465
- R2 2 HOUR WALL - C-T/C-H STUD UL# U426
- R3 3 HOUR WALL

2 WALL TYPES

MATERIAL KEY

C	Concrete
CT	Suspended T-bar Ceiling
GB	Gypsum Wall Board
CMU	Concrete Block
EX	Exposed Structure
GB	Gypsum Board
SOL	Solid Surface
MP-A	Metal Panel - Type A (EXT)
MP	Phenolic Panel
SF	Sheet Vinyl
WRGB	Water Resistant Gyp. Board

FINISH KEY

AT	Acoustic Tile
BS	Brushed S. Stained
CPT	Carpet
CT1	Ceramic Tile
CT2	Ceramic Tile
FRP	Fiber Reinforced Molded Coated Panel
QT	Quarry Tile
RF	Resilient Floor
VT	Suspended Vinyl Tile
WT	Wall Tile

FINISH KEY

P	Paint
EPE	Paint - Epoxy
WP	Wood Panel
EFE	World Epoxy Flooring
RB	Rubber Cove Base
S	Stained
SL	Slate
SFI	Stained Concrete

COMMENT KEY

RB at GYP Bd. Only

REMARKS
1. Existing room finishes to remain. Patch Area's effected by new construction.
2. Existing cover plate exterior to existing doors.

Room Number	Room Name	Floor			Base			North			West			South			East			Ceiling			Remarks	Room Number
		M	F	C	M	F	C	M	F	C	M	F	C	M	F	C	M	F	C	M	F	C Height		
SHEET A2.10																								
001	VESTIBULE	C	ST		GB	RB		GB	P		GB	P		GB	P		GB	P		GB	P	7'-4"		001
002	ELEVATOR EQUIP. ROOM	C	S					CMU	P		CMU	P		CMU	P		GB	P		EX				002
003	ELECTRICAL	C	S		GB	RB		GB	P		CMU	P		CMU	P		GB	P		EX				003
004	MECH/STORAGE	C	S		GB	RB		GB	P		CMU	P		GB	P		GB	P		EX				004
005	STORAGE ROOM																						12	005
006	CORRIDOR	C																		EX				
120	VESTIBULE	C	ST								CB	SL		SF			CB	SL		GB	P	10'-4"		100
121	LOBBY	C	ST					GB/SL/T	P		SF-GB	P		SF/MP-A			GB/SF	P		EX	P			101
122	VESTIBULE	C	ST					SF			SF	SL					SF			MP-D	P	10'-1"		102
103	LOBBY	C	CPT		SB	RB		GB	P		GB	P		GB	P		GB/GB			AT		10'-1"		103
104	RECEPTION	C	CPT		SB	RB		SB	P		SB	P		GB	P					AT		10'-1"		104
105	WORK ROOM	C	CPT		GB	RB		GB	P		GB	P		GB	P		GB	P		AT		10'-1"		105
106	KITCHEN	C	CPT		SB	RB		SB	P		SB	P		GB	P		GB	P		AT		10'-1"		06
107	OFFICE	C	CPT		SB	RB		SB	P		GB	P		GB	P		CB	SL		AT		10'-1"		107
108	OFFICE	C	CPT		SB	RB		GB	P		GB	P		GB	P		CB	SL		AT		10'-1"		108
109	CONFERENCE	C	CPT		SB	RB		GB	P		GB	P		GB	P		CB	SL		AT		10'-1"		109
110	CORRIDOR	C	CPT		SB	RB		GB	P		SB	P					GB	P		AT		10'-1"		10
126	CORRIDOR	C	CPT		SB	RB		GB/WP	P/WP		SF			GB-WP	B P-WP					GB/AT	P	10'-1"		120
121	SOAP																							12
122	COAT	C	CPT		SB	RB		GB	P		SB	P		GB	P		GB	P		GB	P	(E)		22
123	EXHIBIT HALL STORAGE ROOM																			ATIC		(E)		23
124																								24
125	MEN	C	CT		WRGB	CT		WRGB	CT		WRGB	CT-PE		WRGB	CT		WRGB	CT-PE		GB	E	9'-0"		125
126	MEN	C	CT		WRGB	CT		WRGB	CT		WRGB	CT-PE		WRGB	CT		WRGB	CT-PE		GB	E	9'-0"		26
127	WOMEN	C	CT		WRGB	CT		WRGB	CT		WRGB	CT-PE		WRGB	CT		WRGB	CT-PE		GB	E	9'-0"		127
128	WOMEN	C	CT		WRGB	CT		WRGB	CT		WRGB	CT-PE		WRGB	CT		WRGB	CT-PE		GB	E	9'-0"		128
129	CORRIDOR	C	CPT		SB	RB		GB	P		GB	P		GB	P		GB	P		AT		10'-4"		129
31	LAUNDRY	C	FF		SB	PB		GB	P		SB	P		GB	P		GB	P		GB	P	9'-0"		131
132	CORRIDOR	C	CPT		GB	RB		GB	P		GB	P		GB	P		GB	P		AT		10'-1"		132
133	NOT USED																							
134	ELECTRICAL TEL	C	S		GB	RB		GB	P		GB	P		GB	P		GB	P		GB	P	9'-0"		134
135	LOBBY	C	CPT		GB	RB		GB	P		GB	P		GB	P		CB	SL		AT		10'-1"		135
136	VESTIBULE	C	ST		GB	RB		GB	P		GB	P		SF			GB	P		GB	P	10'-1"		136
137	CONFERENCE ROOMS	C	CPT		GB	RB		GB	P		GB	P		GB	P		GB	P		AT/GB	P	10'-1/2"		137
138	STORAGE ROOM	C	FF		GB	RB		GB	P		GB	P		GB	P		GB	P		EX	P			138
140	KITCHEN	C	QT		GB	RB		GB	FRP		GB	FRP		GB	FRP		GB	FRP		VT		9'-0"		140
141	DRY STORAGE	C	QT		GB	RB		GB	FRP		GB	FRP		GB	FRP		GB	FRP		VT		9'-0"		41
142	RESTROOM	C	CT		WRGB	CT		WRGB	CT		WRGB	CT		WRGB	CT		WRGB	CT		GB	P	9'-0"	GB in SHOWER WD'S & CAB.	142
143	LOCKERS	C	CPT		GB	RB		GB	P		SB	P		GB	P		WRGB	PE		AT		9'-0"		143
144	OFFICE	C	QT		WRGB	QT											WRGB	PE		VT		9'-0"		44
145	CONCESSIONS	C	QT		WRGB	QT		WRGB	FRP		WRGB	FRP					WRGB	FRP		VT		9'-0"		145
146	JANITOR	C	QT		WRGB	QT		WRGB	PE		WRGB	PE		WRGB	PE		WRGB	PE		VT		9'-0"		146
147	BEVERAGE	C	QT		WRGB	QT		WRGB	FRP		WRGB	FRP		WRGB	FRP		WRGB	FRP		VT		9'-0"		147
148	DISH STORAGE	C	QT		WRGB	QT		WRGB	FRP		WRGB	FRP		WRGB	FRP		WRGB	FRB		VT		9'-0"		148
149	DISH ROOM	C	QT		WRGB	QT		WRGB	FRP		WRGB	FRP		WRGB	FRP		WRGB	FRB		VT		9'-0"		149

1 ROOM FINISH SCHEDULE

GENERAL NOTES:

1. ALL SHEATHING 5/8" GYP.
2. EXISTING PRECAST WALL W/ 7/8" FURRING ON WEST SIDE AND 2-1/2" FURRING ON EAST SIDE.
3. EXISTING PRECAST WALL W/ 1-1/2" FURRING ON EAST SIDE.

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Issues/Revisions	Date:
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TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

WALL TYPES/ ROOM FINISH SCHEDULE

Drawn by
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A9.30

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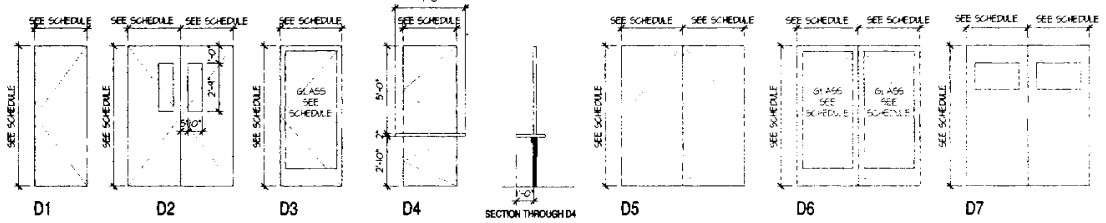
SEE SCHEDULE
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4'-0"
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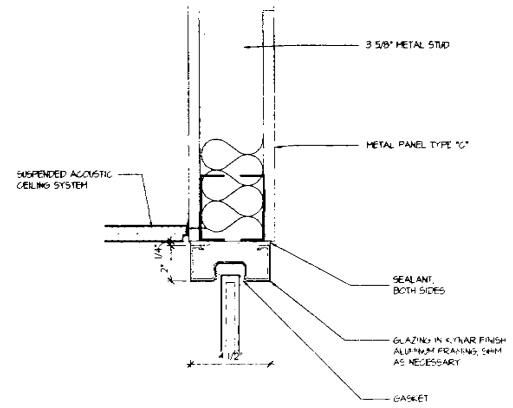
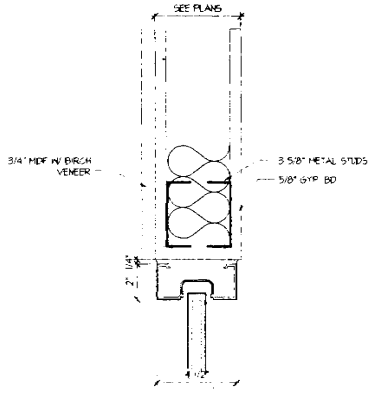


19 HEAD AT WINDOW TYPE G
SCALE 3" = 1'-0"



18 JAMB @ TICKET WINDOW
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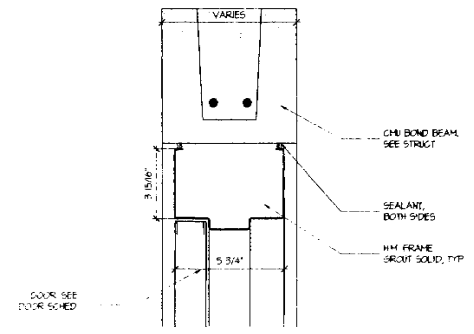
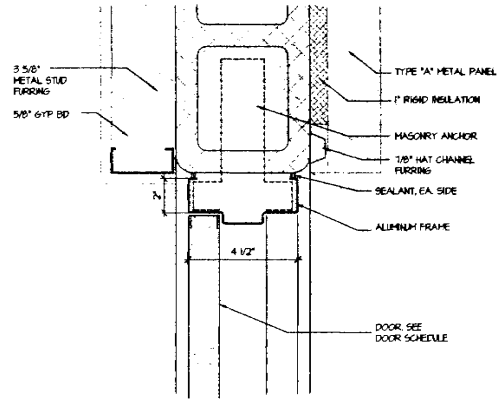


17 H.M. DOOR HEAD DETAIL
SCALE 3" = 1'-0"



16 HEAD/ JAMB @ F4
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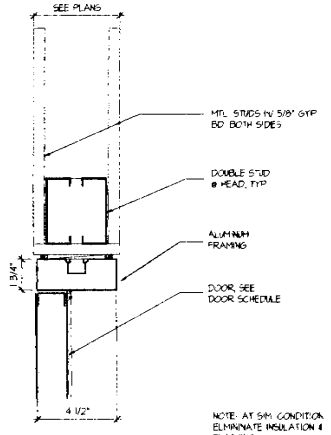

15 ALUM. DOOR HEAD DETAIL
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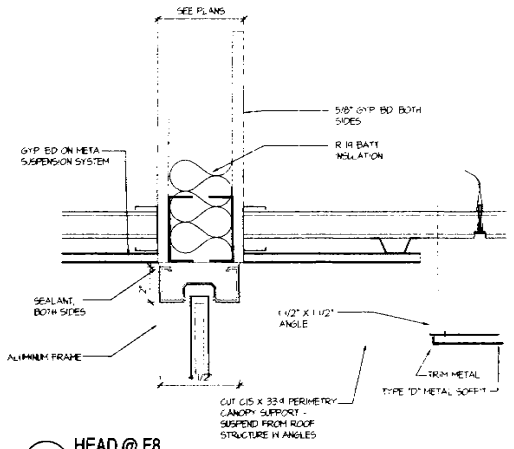

14 HEAD @ F8
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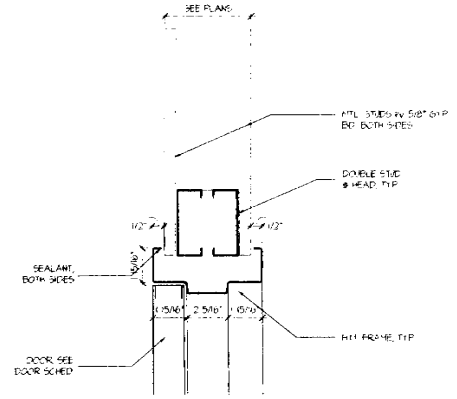

13 H.M. DOOR HEAD DETAIL
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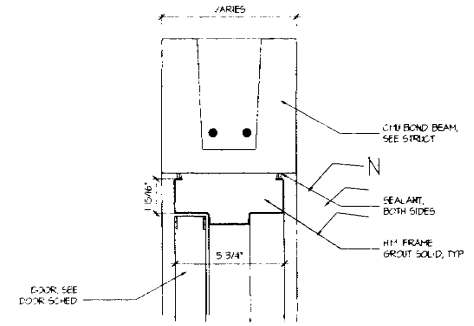
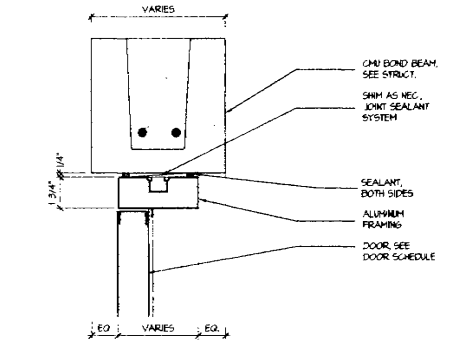


12 H.M. DOOR HEAD DETAIL
SCALE 3" = 1'-0"



11 ALUM. DOOR HEAD DETAIL
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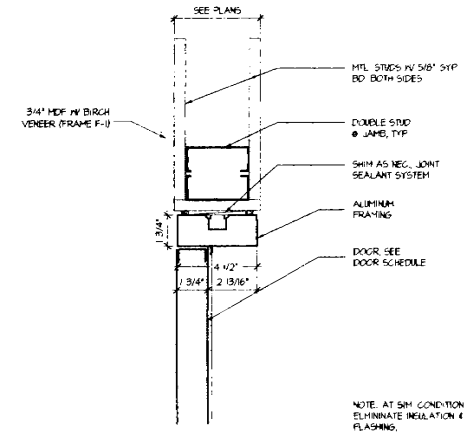

10 ALUM. DOOR JAMB DETAIL
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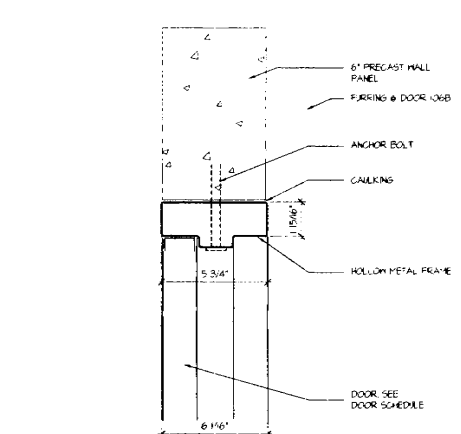

9 H.M. DOOR JAMB/HEAD DETAIL
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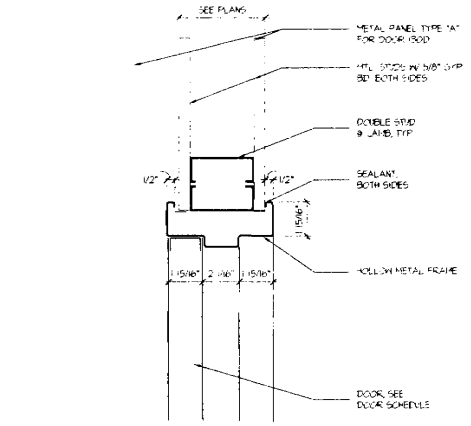

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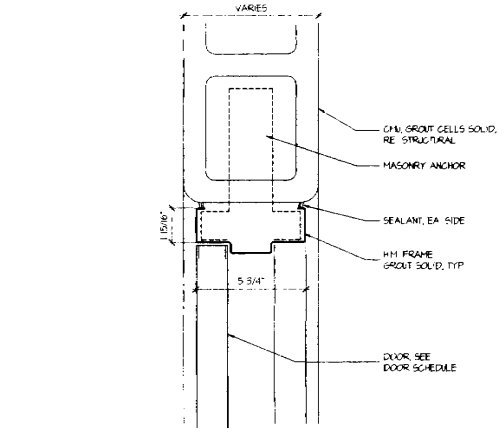

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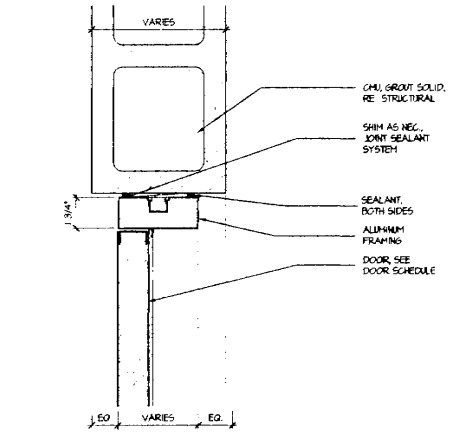

6 ALUM. DOOR JAMB DETAIL
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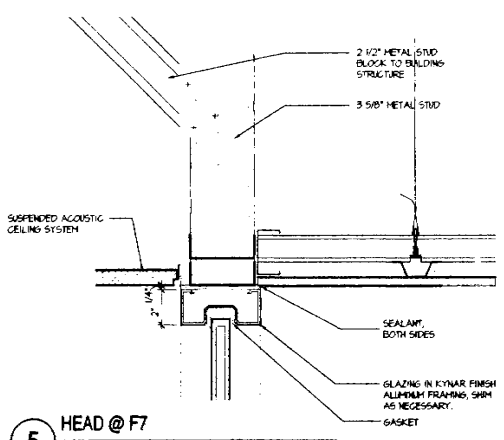

5 HEAD @ F7
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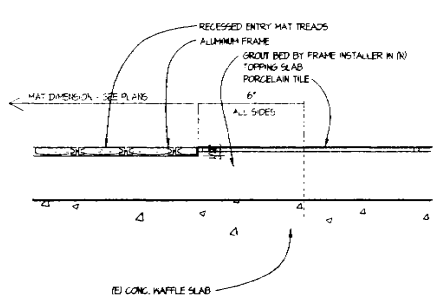

4 ENTRY MAT DETAIL
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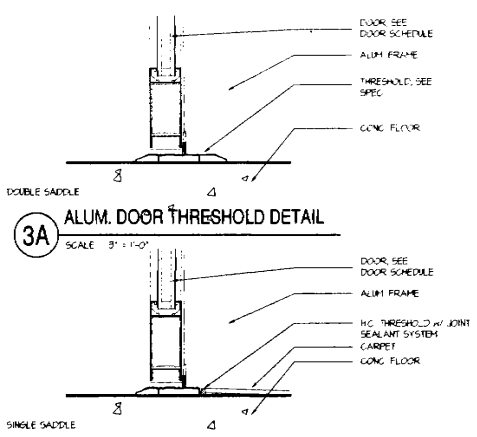

3A ALUM. DOOR THRESHOLD DETAIL
SCALE 3" = 1'-0"

3 ALUM. DOOR THRESHOLD DETAIL
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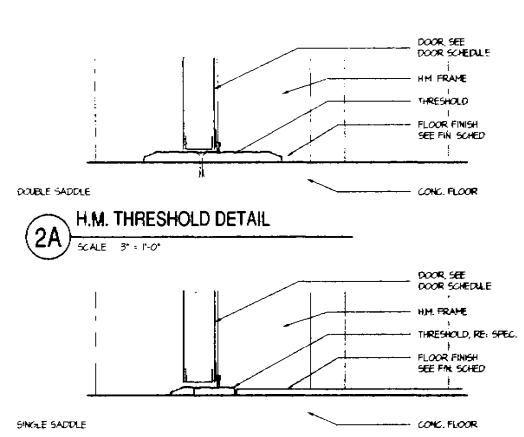

2A H.M. THRESHOLD DETAIL
SCALE 3" = 1'-0"

2 H.M. THRESHOLD DETAIL
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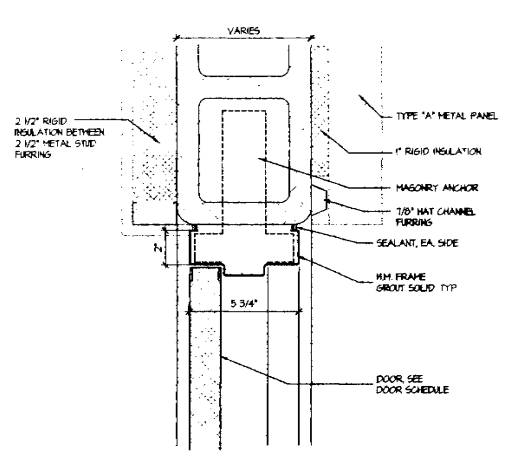

1 HEAD JAMB @ DOOR 001A
SCALE 3 1'-0"

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SINK COMBS DETHLEFS
A Professional Corporation for Architecture
225 Main Street, Suite 200
Denver, Colorado 80205
303 308 8200
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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-5-00
SITEEL B/D REFERENCE	1-26-01
PROGRESS SET	2-8-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

DOOR & WINDOW DETAILS

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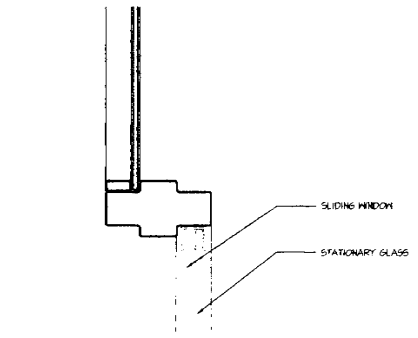

20 TICKET WINDOW HEAD DETAIL
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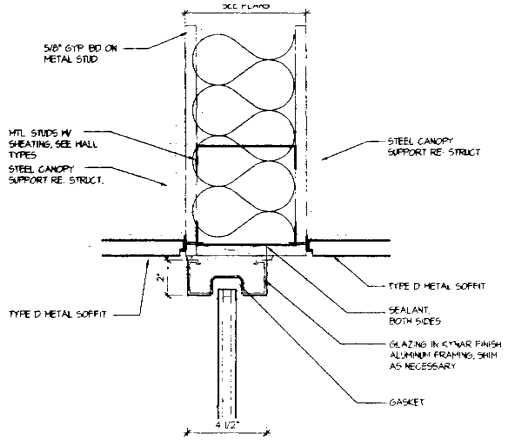

19 HEAD @ F 9
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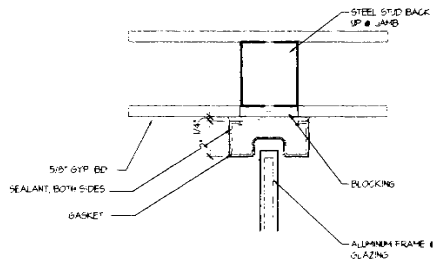

18 ALUM. WINDOW & GYP WALL
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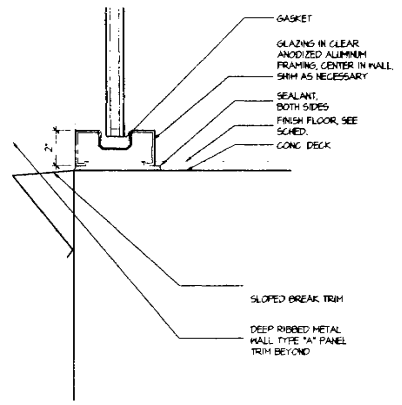

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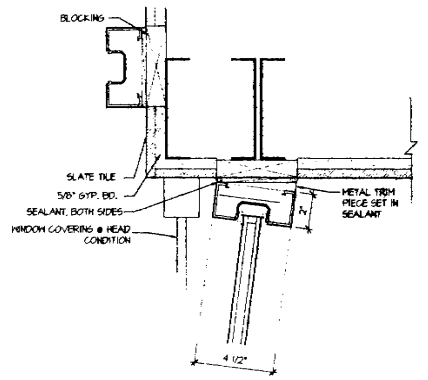

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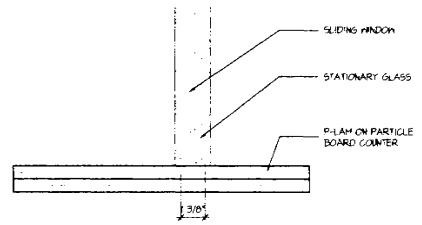

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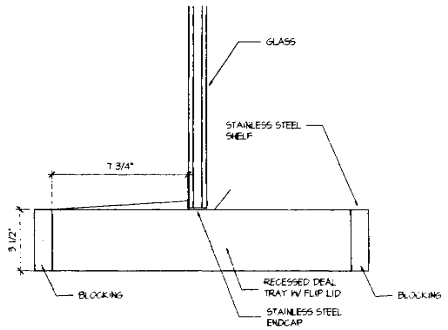

14 TICKET WINDOW SILL DETAIL
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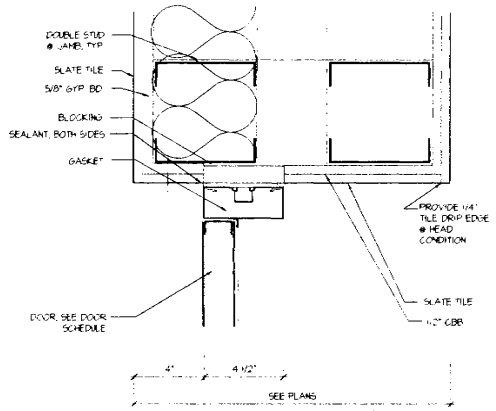

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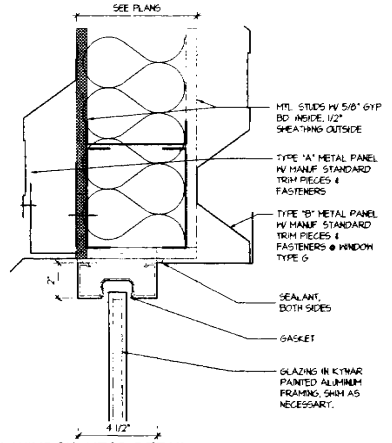

12 ALUM. WINDOW HEAD DETAIL
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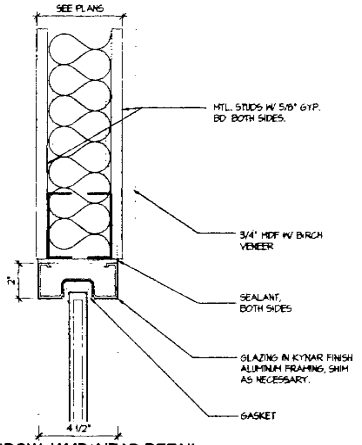

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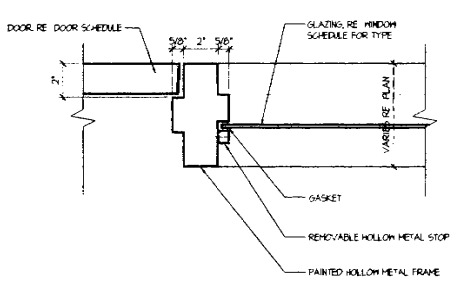

10 H.M. DOOR JAMB DETAIL
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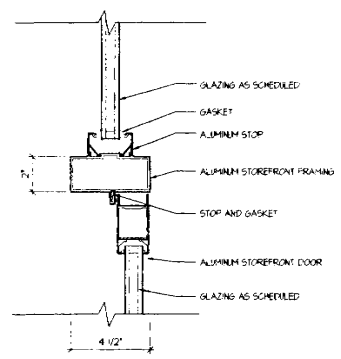

9 ALUMINUM DOOR HEAD DETAIL
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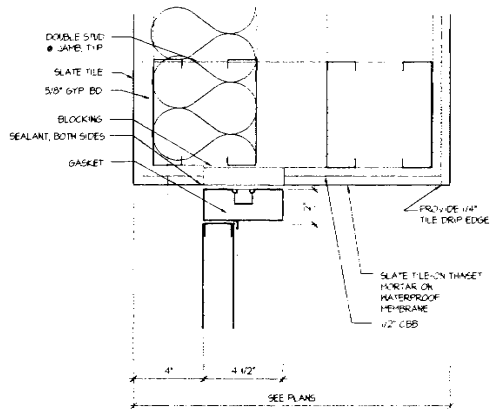

8 ALUM. DOOR HEAD DETAIL
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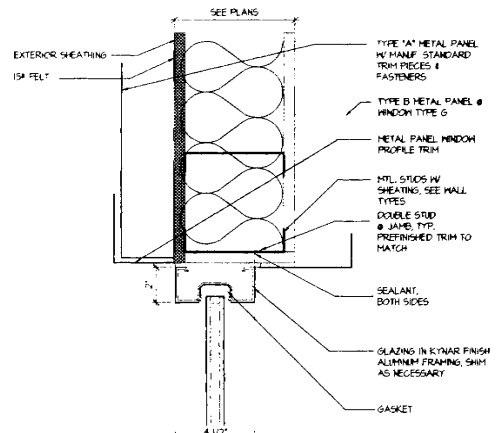

7 ALUM. WINDOW JAMB DETAIL
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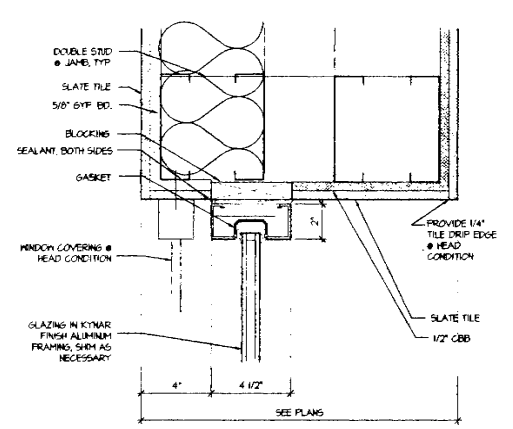

6 ALUM. JAMB / HEAD DETAIL
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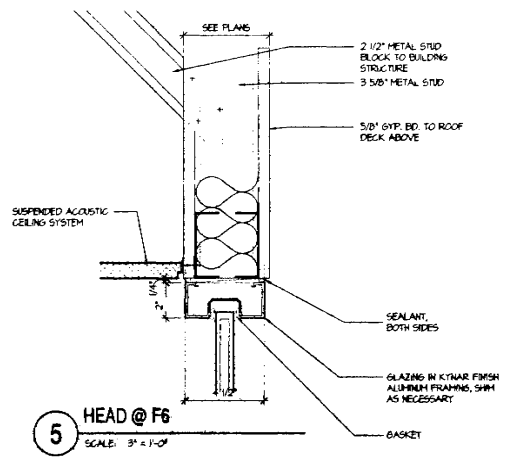

5 HEAD @ F6
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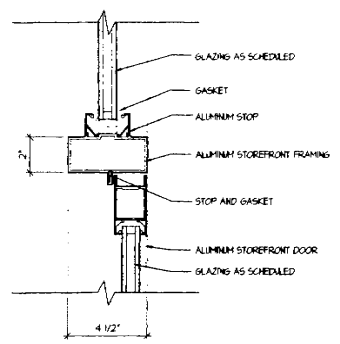

4 ALUM. DOOR JAMB DETAIL
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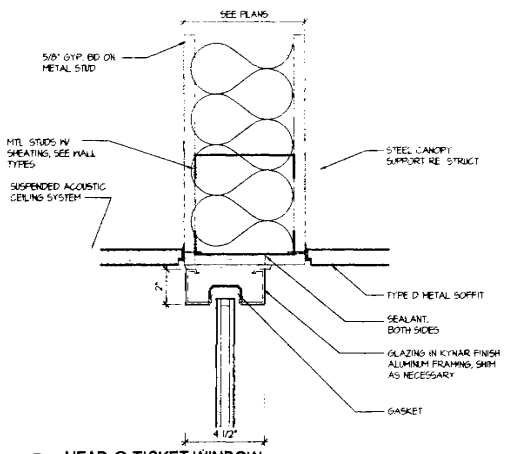

3 HEAD @ TICKET WINDOW
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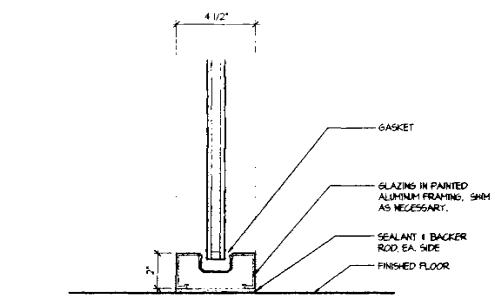

2 ALUM. WINDOW SILL
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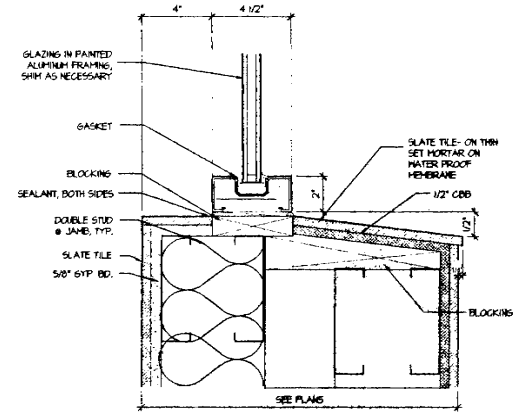

1 ALUM. WINDOW SILL DETAIL
SCALE: 3" = 1'-0"

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SINK COMBS DETHLEFS
A Professional Corporation 370 Main Street, Suite 100 Delta, Colorado 81416
for Architecture
970 874 9099
970 874 9332

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9824

WINDOW DETAILS

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Checked by

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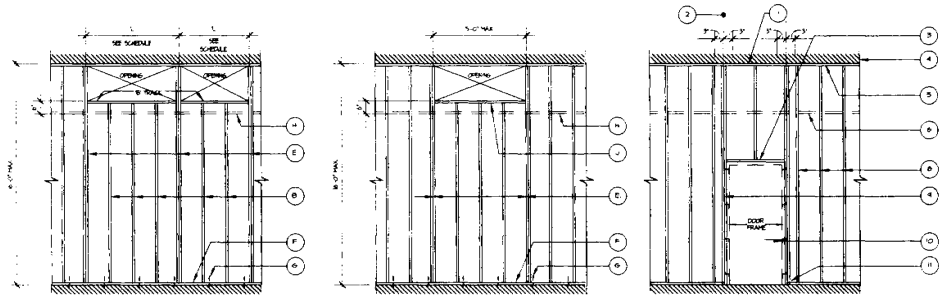
INTERIOR WALL FRAMING CRITERIA NOTES

1. ALL DIMENSIONS ARE TAKEN TO CENTERLINE OF COLUMN, FACE OF GYPSUM BOARD FINISH (F.O.F.), FACE OF CONCRETE (F.O.C.), OR FACE OF BUILDING (F.O.B.), UNLESS OTHERWISE NOTED
2. UNLESS OTHERWISE NOTED, INTERIOR PARTITIONS SHALL BE FRAMED WITH 3-5/8" 25 GAUGE METAL STUDS 16" ON CENTER. METAL STUDS IN ALL PARTITION SHALL BE EXTENDED FROM FLOOR SLAB TO UNDERSIDE OF STRUCTURAL DECK (U.N.O.) SEE THIS SHEET FOR TYPICAL WALL DETAILS
3. CONTRACTOR SHALL VERIFY AND COORDINATE WALL AND FRAMING THAT REQUIRE A NON-TYPICAL WALL THICKNESS DUE TO STRUCTURAL, ELECTRICAL, MECHANICAL, EQUIPMENT, OR OTHER REQUIREMENTS
4. WHERE EQUIPMENT OR CABINETS ARE SHOWN TO BE RECESSED IN OR MOUNTED ON 1-HOUR OR 2-HOUR RATED PARTITIONS, THE FINISH SURFACE SHALL BE MADE TO RUN CONTINUOUSLY BEHIND AND AROUND SUCH EQUIPMENT OR CABINETS BEFORE THEIR INSTALLATIONS, TO MAINTAIN FIRE RATING CAVITY DEPTH

   OR

   BACK, PLASTER OR PROTECT ALL PANELS, FIXTURES, AND OTHER PENETRATIONS IN PARTITIONS AND CEILINGS IN ORDER TO MAINTAIN REQUIRED FIRE SEPARATION AND RATED ASSEMBLIES
5. ALL STUD SIZES SHALL BE 6" WHERE RECESSED ELECTRICAL PANEL BOXES ARE LOCATED TO NEAREST INTERSECTING WALL
6. ON A CONTINUOUS WALL SURFACE WHERE CONSTRUCTION INVOLVES MORE THAN ONE MATERIAL FINISH OR MATERIAL THICKNESS, ALIGN FACE OF FINISH UNLESS OTHERWISE NOTED.
7. PROVIDE CASING BEAD AT GYPSUM WALL BOARD EDGES WHEREVER EXPOSED GYPSUM BOARD ABUTS A DIFFERENT MATERIAL. TYPICAL TO ALL DETAIL SECTIONS. PROVIDE STANDARD GYPSUM BOARD CORNER BEAD AT ALL OUTSIDE CORNERS.
8. PROVIDE BACKING PLATES FOR ALL WALL MOUNTED EQUIPMENT. VERIFY ALL MOUNTING HEIGHTS AND SPECIAL STRUCTURAL SUPPORT REQUIREMENTS WITH EQUIPMENT MANUFACTURERS BEFORE INSTALLING BACKING PLATES AND SUPPORTS.

   PROVIDE BACKING PANELS FOR ALL RAILS, CASEWORK, COUNTERS, OR FIXTURES, UNLESS NOTED OTHERWISE. SEE DETAIL DRAWINGS THIS SECTION FOR TYPICAL BACKING PLATE DETAILS, AS REQUIRED BY HEIGHT TO BE SUPPORTED
9. STEEL COLUMNS ENCASED BY PARTITIONS SHALL BE FURRED WITH THE SAME MATERIAL AS THE ADJACENT WALLS FURRING CHANNELS SIZED AS REQUIRED (MIN. 3.6# AT 16" O.C.)
10. CURVED WALLS SHALL BE FRAMED WITH STUDS AT 12" O.C.
11. ALL STUD SIZES SHALL BE 6" IN WALLS WITH PLUMBING (UNLESS OTHERWISE NOTED AS A LARGER SIZE)

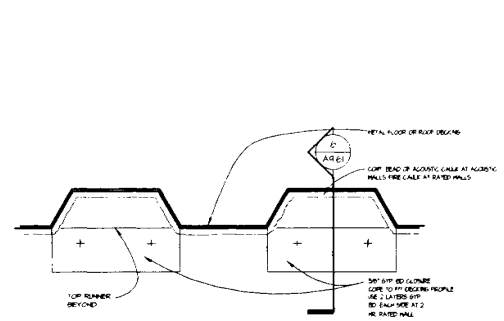


STUDS AND HEADER SCHEDULE		
'L' (LENGTH)	'A' STUDS	'B' TRACKS
UP TO 4'-0"	3-5/8" SCREW STUD	3-5/8" X 1-1/4" X 16 GA. TRACK CHANNEL
4'-1" TO 8'-0"	(2) - 3-5/8" SCREW STUDS	3-5/8" X 1-1/4" X 16 GA. TRACK CHANNEL

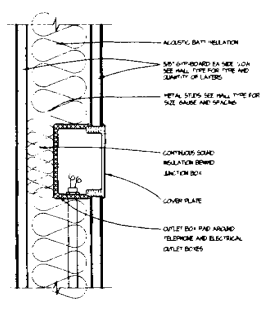
TYPICAL WALL FRAMING NOTES
A. RUN ALL STUDS FROM STRUCTURE TO STRUCTURE UNLESS OTHERWISE NOTED
B. ALL STUDS SHALL BE 3-5/8" 25 GA. SCREW STUDS AT 16" O.C. UNLESS OTHERWISE NOTED. SEE DETAILS ELSEWHERE FOR STUDS SUPPORTING BACKING PLATES
C. FOR BACKING PLATES, SEE DETAILS ON THIS SHEET
D. NOT USED
E. DOUBLE 20 GA. SCREW STUDS - HELD DOUBLE STUDS TYPICALLY 3/4" AT 12" O.C.
F. 16 GA. TRACK - ATTACH BOTTOM TRACK TO ALL STUDS WITH #8 SHEET METAL SCREWS EACH SIDE
G. 1/4" ROUND X 1-1/2" POWDER ACTUATED DRIVE PINS AT 2'-0" O.C.
H. FINISHED CEILING - SEE REFLECTED CEILING PLAN
J. 'A' STUDS

1. 16 GA. TRACK EXTEND 12" BEYOND EACH JAMB.
2. DRIVE PINS AT 2'-0" O.C. AND 1 EA. SIDE OF JAMB
3. FRAMING AT HEAD:
   3'-6" DOORS OR LESS - 16 GA. TRACK
   3'-6" DOORS TO 8'-0" MAX - USE 2-16 GA. TRACKS
4. FLOOR OR ROOF SYSTEM ABOVE
5. TOP TRACK, SEE SLIP JOINT DETAILS ON THIS SHEET
6. CEILING - SEE REF. CEILING PLAN FOR OCCUPS AND TYPE
7. NOT USED
8. STUDS, SEE PLAN FOR TYPE
9. FRAMING AT JAMBS:
   3'-6" DOORS OR LESS 2-20 GA. STUDS TO STRUCT. ABOVE
   3'-6" DOORS OR LARGER 2-16 GA. STUDS.
10. HOLLOW METAL DOOR FRAME SUPPLIED WITH 14 GA. STL. "ZEE" CLIPS - 4 PER JAMB & 2 AT HEAD WELDED TO FRAME. SCREWED TO STUDS WITH 2 #10 S.M.S. EACH CLIP (TYP.)
11. FLOOR TRACK DETAIL

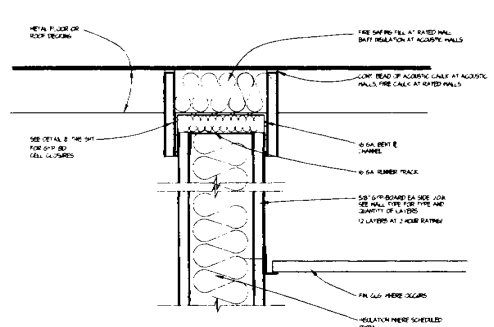
2 PARTITION WALL FRAMING CRITERIA
SCALE: N.T.S.



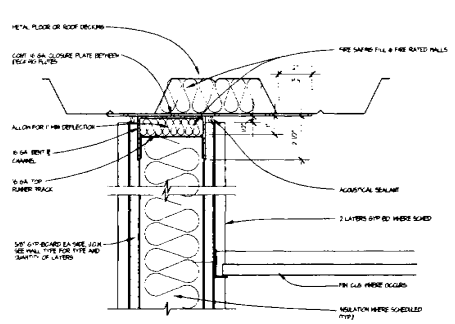
8 INFILL at DECK FLUTES (PARTITION PERPENDICULAR TO RIBS)
SCALE 3" = 1'-0"



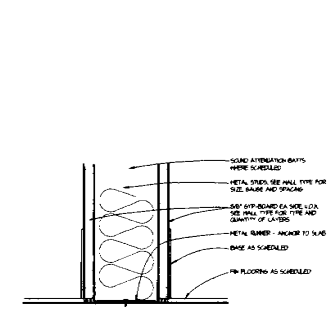
(REQUIRED AT ALL ACOUSTIC PARTITIONS)
7 SOUND ISOLATION at J-BOX
SCALE 3" = 1'-0"



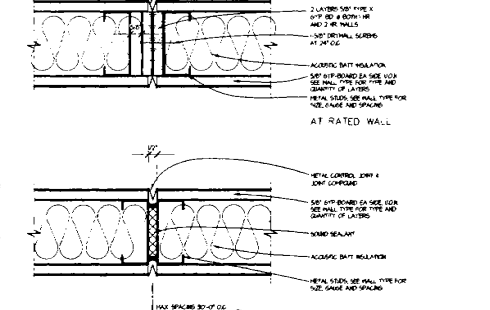
6 HEAD at METAL DECK (PARTITION PERPENDICULAR TO RIBS)
SCALE 3" = 1'-0"



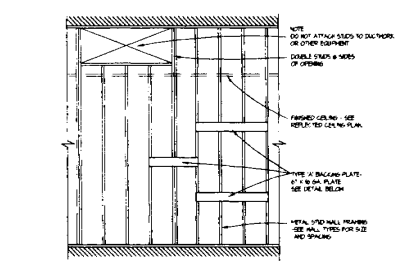
5 HEAD at METAL DECK (PARTITION PARALLEL TO RIBS)
SCALE 3" = 1'-0"



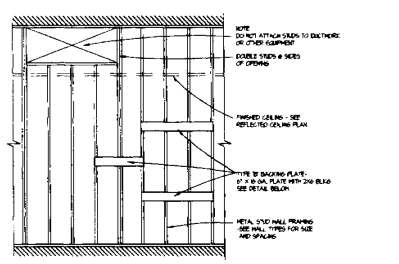
4 BASE DETAIL
SCALE 3" = 1'-0"



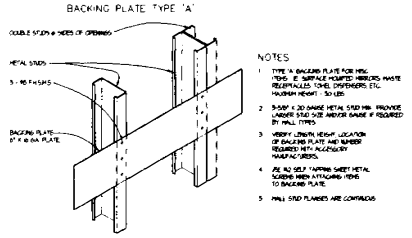
3 CONTROL JOINTS at GYP-BOARD PARTITION
SCALE 3" = 1'-0" (PROVIDE AT ALL SLAB JOINTS)



BACKING PLATE TYPE 'A'

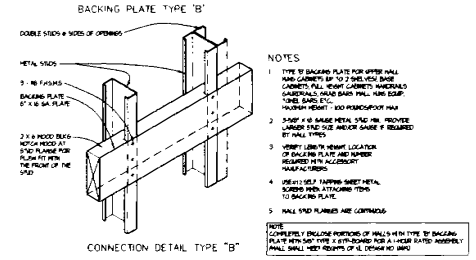


BACKING PLATE TYPE 'B'



NOTES
1. TYPE 'A' BACKING PLATE FOR HEAVY LOADS: 8" SURFACE MOUNTED MIRRORS, WASTE RECEPTACLES, TOWEL DISPENSERS, ETC. MAXIMUM WEIGHT - 50 LBS.
2. 3-5/8" X 20 GAUGE METAL STUD STUD TO PROVIDE LARGER STUD SIZE AND/OR GAUGE IF REQUIRED BY WALL TYPES
3. VERIFY LENGTH AND/OR LOCATION OF BACKING PLATE AND NUMBER REQUIRED WITH ACCESSORY MANUFACTURERS.
4. #8 X 1/2" SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BACKING PLATE
5. WALL STUD FLANGES ARE CONTINUOUS

CONNECTION DETAIL TYPE 'A'



NOTES
1. TYPE 'B' BACKING PLATE FOR UPPER WALL MOUNTED OR 12" O.C. WALL BASE CABINETS, FULL HEIGHT CABINETS, HANDRAILS, GRAB BARS, SHELVING, WALL HUNG SOAP, TOWEL BARS, ETC. MAXIMUM WEIGHT - 100 POUNDS PER MAX.
2. 3-5/8" X 16 GAUGE METAL STUD STUD TO PROVIDE LARGER STUD SIZE AND/OR GAUGE IF REQUIRED BY WALL TYPES
3. VERIFY LENGTH AND/OR LOCATION OF BACKING PLATE AND NUMBER REQUIRED WITH ACCESSORY MANUFACTURERS.
4. #8 X 1/2" SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BACKING PLATE
5. WALL STUD FLANGES ARE CONTINUOUS

NOTE: COMPLETELY ENCLOSE PERIMETER OF WALLS WITH TYPE 'B' BACKING PLATE WITH SAT TYPE 'X' GYP-BOARD FOR 2-HOUR RATED ASSEMBLY. WALL SHALL MEET REQUIRMENTS OF UL DESIGN NO. U420

CONNECTION DETAIL TYPE 'B'

1 BACKING PLATE CRITERIA
SCALE: N.T.S.

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ISSUES RECORD	2008
SCHEMATIC DESIGN	2-28-08
PROGRESS PRINT	4-30-08
DESIGN DEVELOPMENT	6-5-08
STEEL BID REFERENCE	7-28-08
PROGRESS SET	12-8-08
CONSTRUCTION DOCUMENTS	3-6-09

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

PARTITION WALL FRAMING CRITERIA

Drawn By:
Checked By:

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ABBREVIATIONS

/	Per
@	At
AB	Anchor Bolt
ADDNL	Additional
ALT	Alternate
APPROX	Approximate
ARCH	Architect
BD	Board
BLDG	Building
BM	Beam
BOT or B	Bottom
BOS	Bottom Of Steel
BRG	Bearing
BTWN	Between
CC	Center to Center
CG	Center of Gravity
CIP	Cast-In-Place
CJ	Control Joint
CJP	Complete Joint Penetration
CL	Centerline
CLR	Clear
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continue or Continuous
CONTR	Contractor
CTR	Center
DAS	Deformed Anchor Stud
DBL	Double
DIA or Ø	Diameter
DIM	Dimension
DL	Dead Load
DN	Down
DO	Ditto
DP	Deep
DTL	Detail
DWG	Drawing
DWL	Dowel
EA	Each
EC	Epoxy Coat(ed)
EE	Each End
EF	Each Face
EJ	Expansion Joint
EL	Elevation
ELEV	Elevator
ENGR	Engineer
EQ	Equal
EQL SP	Equally Spaced
EQUIP	Equipment
ES	Each Side
ESC	Escalator
EW	Each Way
EXIST	Existing
EXP ANCH	Expansion Anchor
EXP	Expansion
EXT	Exterior
FAB	Fabricate
FIN	Finish
FLG	Flange
FND	Foundation
FRAM	Framing
FS	Far Side
FT	Foot
FTG	Footing
FV	Field Verify
GA	Gage or Gauge
GALV	Galvanized
GR	Grade
GR BM	Grade Beam
HD A B	Headed Anchor Bolt
HD	Headed
HD A S	Headed Anchor Stud
HORIZ	Horizontal
HT	Height
HVAC	Heating-Ventrating
ID	Inside Diameter
IF	Inside Face
IN	Inch
INT	Interior
JST	Joist
JT	Joint
K	Kip
L or LG	Length
LB or LBS	Pound(s)
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LONG	Longitudinal
LT WT	Lightweight
LT	Light
MACH	Machine
MACH RM	Machine Room
MAS	Masonry
MAX	Maximum
MECH	Mechanical
MEP	Mech/Elect/Plumb
MIN	Minimum
MISC	Miscellaneous
ML	Micro-Lam
mm	Millimetre
MNFR	Manufacturer
MO	Masonry Opening
MTL	Metal
N	North
N-S	North-South
NIC	Not in Contract
NO or #	Number
NTS	Not To Scale
NWC	Normal Weight Concrete
OC	On Center
OD	Outside Diameter
OF	Outside Face
OH	Opposite Hand
OPNG	Opening
OPP	Opposite
PC	Precast
PEN	Penetration
PERP	Perpendicular
PL	Plate (Steel)
PREFAB	Prefabricated
PRELIM	Preliminary
PS	Prestressed
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PT	Point
QTY	Quantity
RAD or R	Radius
RC	Reinforced Concrete
RE or REF	Refer to (Reference)
REINF	Reinforce(ing)(d)(ment)
REQD	Required
REQT	Requirement
SCHED	Schedule
SECT	Section
SIM	Similar
SLH	Short Leg Horizontal
SLV	Sleeve
SLV	Short Leg Vertical
SOG	Slab on Ground
SP @	Space @
SP	Space(s)
SPEC	Specifications
SPRT	Support
STD	Standard
STIFF	Stiffener
STL	Steel
STR	Structural
SYM	Symmetrical
T & B	Top & Bottom
T	Top
THK	Thick
THK	Thickness
TL	Total Load
TO	Top of
TOC	Top of Concrete
TOS	Top of Steel
TOPG	Topping
TYP	Typical
ULT	Ultimate
UNO	Unless Noted Otherwise
VERT	Vertical
VIF	Verify in Field
W/O	Without
W/	With
WD	Width
WP	Working Point
WT	Weight
WWF	Welded Wire Fabric
WxH	Width x Height

NOT ALL ABBREVIATIONS USED THIS PROJECT

LEGEND

SYMBOL		DESCRIPTION:
CC-XX	=	CAST-IN-PLACE COLUMN
CW-XX	=	CAST-IN-PLACE WALL
CS-XX	=	CAST-IN-PLACE SLAB
CB-XX	=	CAST-IN-PLACE CORBEL
CP-XX	=	CAST-IN-PLACE EMBED
F-XX XX'-XX"	=	FOOT MARK TOP OF FOOTING ELEVATION
DP-XX XX-XX"	=	DRILLED PIER TOP OF DRILLED PIER ELEVATION
SC-XX	=	STEEL COLUMN
PC-XX	=	PILE CAP
PS-XX	=	PRECAST SEATING UNIT
PST-XX	=	PRECAST STAIR
PR-XX	=	PRECAST RAKER
PW-XX	=	PRECAST WALL
PP-XX	=	PRECAST EMBED PLATE
LF-XX	=	LATERAL FRAME ELEVATION
BXX(X)	=	CONCRETE BEAM (CAMBER)
GBXX(X)	=	CONCRETE BEAM (CAMBER)
XXk	=	BEAM REACTION IN KIPS
[XX]	=	SHEAR STUD QUANTITY
c=X"	=	CAMBER (INCHES)
( )	=	ELEVATION OF TOS
DX	=	DX = DECK/SLAB MARK AND METAL DECK DIRECTION
	=	MOMENT CONNECTION
	=	BRACING
X	=	PENETRATION THRU STRUCTURAL MEMBER
⊗	=	DAVIT

SYMBOL		DESCRIPTION
XXX'-XX"	=	ELEVATION SYMBOL
	=	STEP
	=	SLOPE
X	=	KEY NOTE
	=	BOX NOTE: DESIGNATES THE NOTE IS TYPICAL AND APPLIES TO ALL SIMILAR CONDITIONS
A	=	DRAWING REVISION NUMBER
	=	CURRENT REVISION CLOUD
	=	SUBGRADE
	=	MASONRY WALL
XX Xk	=	MECHANICAL UNIT (XX Xk = MECHANICAL UNIT WEIGHT IN KIPS INCLUDING HOUSEKEEPING PAD)
	=	OVERFRAMING STRUCTURE
	=	POUR STRIP
X SX X	=	DETAIL SECTION CUT = SHEET DRAWN ON

DIMENSIONS:

NOT ALL LEGEND SYMBOLS USED THIS PROJECT

SHEET INDEX

S1.10	ABBREVIATIONS, LEGEND, SHEET INDEX
S1.11	GENERAL NOTES & INFORMATION
S2.10	PARKING/ FOUNDATION PLAN - OVERALL
S2.11	PARKING/ FOUNDATION PLAN - ENLARGED
S2.20	PLAZA LEVEL FRAMING PLAN - OVERALL
S2.21	PLAZA LEVEL FRAMING PLAN - ENLARGED
S2.30	ROOF FRAMING PLAN - OVERALL
S2.31	ROOF FRAMING PLAN - ENLARGED
S3.10	TYPICAL FOUNDATION DETAILS & SCHEDULES
S3.11	FOUNDATION AND MASONRY DETAILS
S4.10	TYPICAL STEEL CONNECTIONS & DETAILS
S4.11	FRAMING DETAILS
S4.12	FRAMING DETAILS
S4.13	FRAMING DETAILS
S4.20	ROOF DETAILS
S4.21	ROOF DETAILS
S4.22	ROOF DETAILS

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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & 1	2/16/01
CONST DOCS & 2	3/16/01

Two Rivers Convention Center

M/M Project No. 14386.5.01
SCD Project No.: 8924

ABBREVIATIONS, LEGEND & SHEET INDEX

Drawn by DNE
Checked by CBN

S1.10

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DESIGN CRITERIA

1. CODES AND STANDARDS USED IN DESIGN:

   A. IBC 2000

   B. CONCRETE DESIGN:
   - ACI 301-96 "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS."
   - ACI 318-95 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."

   C. MASONRY:
   - ASCE 5-99: "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
   - ASCE 6-99: "SPECIFICATION FOR MASONRY STRUCTURES".

   D. STEEL: AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN" JUNE 1, 1989.

2. WIND LOADS
   BASIC WIND SPEED. . . . . 80 MPH
   EXPOSURE CATEGORY . . . . . B
   IMPORTANCE FACTOR, I(W) 1.0

3. SEISMIC LOADS: NEED NOT BE CONSIDERED. DO NOT CONTROL OVER WIND LOADS

4. SNOW LOADS
   BASIC FLAT ROOF . . . . . 30 PSF
   GROUND . . . . . 25 PSF
   EXPOSURE FACTOR,CE 0.7
   IMPORTANCE FACTOR I(SNOW) 1.0

5. LATERAL LOAD RESISTING SYSTEM DESCRIPTION:

   STEEL BRACED FRAMES, MASONRY SHEAR WALLS, AND CONCRETE SHEAR WALLS.

6. GRAVITY LOADS

   A.

LOCATION	(1) SUPERIMPOSED DEAD LOAD, PSF	LIVE LOAD, PSF	LIVE LOAD REDUCTION	PARTITION LOAD, PSF	REMARKS
ROOF	30 (INCLUDES 18 PSF ROOFING LOAD)	30 MIN UNIFORM LOAD (AND UNBALANCED SNOW PER IBC 2000)	NO	—	—
PLAZA LEVEL NEW STRUCTURE	12	100	NO	—	—

NOTES: 1. SUPERIMPOSED DEAD LOAD EXCLUDES STRUCTURE SELF WEIGHT BUT INCLUDES THE WEIGHT OF ALL OTHER PERMANENT MATERIALS SUCH AS CEILINGS, MEP, FINISHES, ROOFING, ETC.

GENERAL NOTES

SECTION 1 - GENERAL REQUIREMENTS

1.0 DEFINITIONS:

A. ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO "ENGINEER" MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

1.1.1 THESE NOTES SUPPLEMENT THE SPECIFICATIONS WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS.

1.1.2 UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES, AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.

1.1.3 EXISTING STRUCTURES

A. CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.

B. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT NOW KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION (DISCOVERY). CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES INCLUDE:
- SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN.
- DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS.
- CONDITIONS OF INSTABILITY OR LACK OF SUPPORT.

C. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.

1.1.4 USE OF DRAWINGS

A. DO NOT SCALE DRAWINGS.

B. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

1.1.5 TEMPORARY CONDITIONS

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

1.1.6 SUBMITTALS AND SUBSTITUTIONS

A. SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
1. IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN INC. FOR MAKING THE CHANGE.
2. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS.

B. SUBSTITUTIONS: ARCHITECTS APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS.

C. NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN INC. FOR DESIGNING THE REPAIR.

1.2.1 CONSTRUCTION ENGINEERING

THE STRUCTURE DEFINED ON THE CONTRACT DOCUMENTS HAS BEEN DESIGNED FOR LOADS ANTICIPATED ON THE STRUCTURE DURING ITS SERVICE LIFE. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK. SUCH ENGINEERING MAY INCLUDE, BUT IS NOT LIMITED TO:
- LAYOUT.
- DESIGN FOR FORMWORK, SHORING, AND RESHORING.
- DESIGN OF CONCRETE MIXES.
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION FOR STEEL, AND CONCRETE CONSTRUCTION.
- WELD PROCEDURES.
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND OR SOIL LOADS.
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES.
- EVALUATION OF TEMPORARY LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS DURING CONSTRUCTION.
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS.

REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS AND CONSTRUCTION ENGINEERING SUBMITTALS.

1.3.1 COORDINATION

A. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.

B. COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, PROJECT SHOP DRAWINGS, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL. SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 OF THE FLOOR FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS IN THE PLANE OF THE WALL.

1.3.2 SPECIAL INSPECTION

SPECIAL INSPECTION SHALL BE PROVIDED. THE LIST BELOW IS A SUMMARY OF REQUIRED TESTS. REFER TO THE SPECIFICATIONS FOR DETAILED TESTING REQUIREMENTS.

SOILS:
- SUBGRADE BENEATH FOOTINGS
- FILL BEHIND FOUNDATION AND RETAINING WALLS
- PILE DRIVING

CONCRETE:
- STRUCTURAL CONCRETE
- INSTALLATION OF EMBEDDED BOLTS AND PLATES SUPPORTING STRUCTURE
- REINFORCING STEEL PLACEMENT
- FIELD BENDING OF REINFORCING STEEL

STRUCTURAL STEEL:
- SHOP AND FIELD WELDING
- FLOOR AND ROOF DECK WELDING
- HOAS IN COMPOSITE FLOOR SYSTEMS
- SHOP INSPECTION OF EMBED PLATE ASSEMBLIES
- STAIRS AND RAILING SYSTEMS
- OAS AND REINFORCING STEEL WELDS
- HIGH STRENGTH BOLTING

STRUCTURAL MASONRY:
- PRECONSTRUCTION TESTING
- PRISM PREPARATION
- MASONRY UNIT PLACEMENT
- REINFORCING PLACEMENT
- GROUT SPACE INSPECTION AND CLEANOUTS
- EMBEDDED PLATES AND ANCHORS
- GROUT AND MORTAR MIXING
- GROUTING

1.3.3 DEFERRED SUBMITTALS: THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:

A. METAL JOISTS.
B. METAL STUD EXTERIOR WALLS.

SECTION 2 - FOUNDATIONS

2.1 DESIGN CRITERIA

A. REFERENCE PROJECT SOILS REPORT PREPARED BY GEOTECHNICAL ENGINEERING GROUP, INC., NUMBER 544, DATED 17 NOVEMBER 2000, FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
B. FOOTING TOTAL LOAD SOIL BEARING PRESSURE: 1000 PSF
C. CONCRETE FILLED DRIVEN PILE CAPACITIES USED IN DESIGN: 50 TONS COMPRESSION; 5 TONS SHEAR.
D. EQUIVALENT FLUID PRESSURE USED FOR WALL DESIGN = 55 PCF FOR "AT REST" CONDITION AND 40 PCF FOR "ACTIVE" CONDITION

SECTION 3 - STRUCTURAL CONCRETE

3.1.1 ALL WORK SHALL CONFORM WITH ACI 301-96 UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.

3.1.2 DETAIL BARS IN ACCORDANCE WITH THE LATEST EDITIONS OF "ACI DETAILING MANUAL", PUBLICATION SP-66 WITH ADDED REQUIREMENTS OF THE PROJECT SPECIFICATION, AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318

3.2.1 REINFORCING

A. REINFORCING: ASTM A615, 60 KSI
B. WELDED AND FIELD BENT REINFORCING: ASTM A706, 60 KSI
C. WELDED WIRE FABRIC: ASTM 185 OR ASTM 497, 70 KSI
D. SPLICES:
1. NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MAY BE MADE BY CLASS B CONTACT LAPS OR MECHANICAL CONNECTORS. REFER TO THE LAP SPLICE SCHEDULE IN FOR LAP LENGTHS.
2. SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS, AND GRADE BEAMS AS FOLLOWS:
A) TOP BARS — AT MIDSPAN
B) BOTTOM BARS — OVER SUPPORT
E. MISCELLANEOUS REINFORCING REQUIREMENTS
1. PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
2. MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
3. NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4, LATEST EDITION.
4. PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS.

3.2.2 STRUCTURAL CONCRETE MIX REQUIREMENTS

TYPE	Intended Use	28 Day Strength F'c (ksi)	Const. Type Lightweight (LW) Normal Wt. (NW)	Max W/C Ratio (Lbs Water / Lbs Mat'l) (Fly Ash)	Min. Cm (Lbs Mat'l / CY) Incl. (Fly Ash)	Max Aggr. (in)	Slump Limits (in) Min.	Slump Limits (in) Max.	Tot Air Limits (%) (2)	Cement Type (4)	Req'd Admixtures	Other Reqmts
1	GRADE BEAMS, TIE BEAMS, & FOUNDATION WALLS	4	NW	0.45	517	3/4	4	—	—	II	—	—
2	COLUMNS	4	NW	0.50	517	3/4	4	—	I or II	—	—	—
3	INTERIOR STRUCTURAL SLABS ON METAL DECK	3.5	LW (5)	0.50	517	3/4	4	—	I or II	—	—	—
4	PARKING LEVEL SLABS & CONCRETE EXPOSED TO DECKERS	5	NW	0.40	564	3/4	4	6	V	AE WRA FM	—	
5	ALL CONCRETE NOT OTHERWISE SPECIFIED	4	NW	0.50	517	3/4	4	6	I or II	AE	—	

NOTES:
(1) FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
3/4" #67 AGGREGATE
1" #57 AGGREGATE
(2) TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR. 'N' IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED
(3) ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS:
AE = AIR-ENTRAINING ADMIXTURE.
WRA = WATER REDUCING ADMIXTURE.
FM = FIBERMESH
(4) PROVIDE TYPE-II CEMENT FOR ALL CONCRETE IN CONTACT WITH THE SUBSOILS.
(5) MAXIMUM UNIT WEIGHT OF LIGHTWEIGHT CONCRETE SHALL BE:
118 PCF WET WT
110 +/- 3 PCF, DRY WT

3.3.1 PLACING REINFORCEMENT

A. REINFORCEMENT PROTECTION
1. CONCRETE PLACED AGAINST EARTH. . . . . 3"
2. CONCRETE PLACED IN FORMS BUT EXPOSED TO WEATHER OR EARTH:
A. BARS #5 AND SMALLER . . . . . 1-1/2"
B. BARS LARGER THAN #5 . . . . . 2"
3. COLUMNS, GIRDERS, GRADE BEAMS, BEAMS . . . 1-1/2"
4. SLABS OR WALLS NOT EXPOSED TO WEATHER OR EARTH 1"

B. REINFORCING PLACING TOLERANCES: PER ACI 117.

C. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE FABRIC AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

3.3.2 CONSTRUCTION JOINTS

A. SUBMIT DRAWINGS SHOWING CONSTRUCTION JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS FOR THE ENGINEER'S REVIEW.

3.3.3 MEP AND OTHER OPENINGS AND EMBEDMENTS

A. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS BEFORE PLACING CONCRETE. REMOVE METAL DECK AT SLEEVE OR OPENING AFTER CONCRETE HAS CURED. DO NOT CUT REINFORCING WHICH MAY CONFLICT. CORING OF CONCRETE IS NOT PERMITTED.

B. REFER TO TYPICAL DETAILS FOR SPACING LIMITS ON SLEEVES AND FOR REQUIREMENTS FOR EMBEDDED CONDUIT AND PIPE.

SECTION 4 - MASONRY

4.1.1 DEFINITIONS: STRUCTURAL MASONRY IS DEFINED AS BEING EITHER LOAD BEARING OR SERVING AS THE LATERAL LOAD RESISTING SYSTEM. STRUCTURAL MASONRY IS SHOWN ON THE STRUCTURAL PLANS THUS: ⟦⟧ AND IS DEFINED IN SCHEDULES AND DETAILS ON THE STRUCTURAL DRAWINGS. PARTITION WALLS, MASONRY VENEER AND OTHER NON-STRUCTURAL MASONRY ARE DEFINED ELSEWHERE.

4.1.2 DESIGN STRENGTH: DEVELOP 1800 PSI COMPRESSIVE STRENGTH (F'M) IN 28 DAYS.

4.2.1 STEEL REINFORCING

A. PRIMARY REINFORCING: ASTM A615, 60 KSI.
B. HORIZONTAL JOINT REINFORCING: ASTM A82, PREFABRICATED, LADDER TYPE.

4.3.1 SPLICES

SPLICES NOT PERMITTED IN REINFORCING BARS EXCEPT AS DETAILED. WHERE PERMITTED, SPLICE BY 48 BAR DIAMETER CONTACT LAPS.

4.3.2 INSTALLATION REQUIREMENTS

A. GROUT SOLID ALL CELLS CONTAINING REINFORCING AND ALL OTHER CELLS NOTED ON THE CONTRACT DOCUMENTS.
B. FILL CELLS AND VOIDS SOLIDLY WITH GROUT A DISTANCE OF 24" BENEATH AND 12" EACH SIDE OF BEAM AND JOIST REACTIONS AND OTHER CONCENTRATED LOADS UNLESS NOTED OTHERWISE.
C. REFER TO TYPICAL DETAILS HEREIN FOR:
1. MINIMUM REINFORCEMENT REQUIREMENTS.
2. ADDED REINFORCING AT OPENINGS, CONTROL JOINTS, ENDS OF WALLS AND OTHER LOCATIONS.
3. MASONRY AND STEEL LINTELS AT OPENINGS.

SECTION 5 - METALS

5.1.1 CONNECTION DESIGN: PROVIDE CONNECTIONS AS SHOWN IN THE STEEL BEAM CONNECTION SCHEDULE AND DETAILS HEREIN. PROVIDE 7/8" DIAMETER A325 BOLTS AT ALL CONNECTIONS UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION FOR ALTERNATIVES AND CONNECTIONS NOT SHOWN.

5.1.2 WELDING REQUIREMENTS

A. WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE A.W.S. QUALIFICATION TESTS.
B. MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.
1. WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE
2. WELD SIZES SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY AISC J2.1.B AND J2.2.B.
C. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED.

5.1.3 COMPOSITE DESIGN

A. NUMBER OF SHEAR STUDS REQUIRED PER BEAM ON DRAWINGS IS BASED ON 100% OF THE AISC VALUE FOR THE CONCRETE TYPE AND 28-DAY STRENGTH SPECIFIED AND SHALL BE THE MINIMUM.

5.1.4 CAMBER

A. CAMBER SHOWN IS BASED ON THE COMPUTED DEFLECTION OF THE BEAM DUE TO SELFWEIGHT OF CONCRETE PLACED. DESIGN IS BASED ON THE THEORETICAL CONCRETE THICKNESS PLUS 1/2" THICKNESS FOR BEAM LEVELING. INCLUDE QUANTITY OF ADDED CONCRETE DUE TO BEAM DEFLECTION IN BID.
B. VALUE NOTED ON PLAN IS IN-PLACE CAMBER, AFTER ERECTION, PRIOR TO PLACING CONCRETE. ADJUST FABRICATION AS REQUIRED TO ACHIEVE CAMBER SPECIFIED WITHIN TOLERANCES.

5.2.1 STRUCTURAL STEEL MATERIAL: PROVIDE THE FOLLOWING UNLESS NOTED:

A. WIDE FLANGE AND WT SHAPES:
ASTM A992 OR A572 CONFORMING TO AISC TECHNICAL BULLETIN #3 . . . . . FY = 50 KSI.
B. HOLLOW STRUCTURAL SECTIONS (HSS):
1. ROUND ASTM A53 . . . . . FY = 35 KSI.
2. RECTANGULAR ASTM A500 GRADE "B" FY = 46 KSI.
C. PLATES, ANGLES, CHANNELS, AND OTHER STEEL NOT IDENTIFIED ASTM A36 . . . . . FY = 36 KSI.

5.2.2 CONNECTION MATERIAL

A. ANCHOR BOLTS: ASTM A307 UNLESS NOTED OTHERWISE.
B. BOLTS: ASTM A325 UNLESS NOTED OTHERWISE.
C. WELDING ELECTRODES: AWS D1.1, E70 SERIES UNLESS NOTED OTHERWISE.
D. HEADED ANCHOR STUDS (H.D.A.S.) AND DEFORMED ANCHOR STUDS (DAS) AWS D1.1 FY = 60 KSI.
STUDS SHALL BE AUTOMATICALLY END WELDED IN SHOP WHERE POSSIBLE. FOR COMPOSITE CONSTRUCTION, CONNECTORS SHALL BE FIELD WELDED THROUGH THE METAL DECK.
E. EXPANSION ANCHORS: REFER TO SPECIFICATIONS FOR MATERIAL, GRADE, AND FINISH.

5.3.1 STRUCTURAL STEEL INSTALLATION

A. ALL A325 BOLTS SHALL BE TENSIONED TO THE VALUES OF TABLE J3.7 OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ASD,"AISC 1989. OTHER HIGH-STRENGTH BOLTS MAY BE INSTALLED SNUG TIGHT AS DEFINED BY AISC.

5.3.2 STEEL JOISTS

A. DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS, LATEST EDITION.
B. SIZE, TYPE, AND SPACING OF JOIST BRIDGING PER CURRENT SJI REQUIREMENTS. USE 'X' BRIDGING AT DISCONTINUOUS ENDS OF BRIDGING UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. COORDINATE LOCATION OF BRIDGING TO AVOID OTHER TRADES.
C. REFER TO PLAN NOTES FOR ADDITIONAL JOIST DESIGN REQUIREMENTS INCLUDING UNBALANCED, CONCENTRATED AND UPLIFT LOADS.

5.3.3 METAL DECK

A. DECK MATERIALS:
COMPOSITE DECK: ASTM A653 OR ASTM A611 FY = 40 KSI
ROOF DECK: ASTM A653 OR ASTM A611 FY = 33 KSI
B. NO TEMPORARY SHORING OF STEEL DECK PERMITTED WITHOUT PRIOR ACCEPTANCE OF THE ENGINEER.
C. INSTALL DECK OVER 4 SUPPORTS (3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE. IF LESS THAN 3 SPANS ARE REQUIRED, CONTRACTOR SHALL REQUEST HEAVIER GAUGE DECK REQUIREMENTS FROM ENGINEER.
D. PROVIDE DECK ATTACHMENTS AS NOTED ON DRAWINGS BUT NOT LESS THAN REQUIRED BY THE STEEL DECK INSTITUTE.
E. DESIGN, PROVIDE, AND INSTALL REINFORCING REQUIRED TO SUPPORT DECK AT DECK OPENINGS 10" IN ANY DIRECTION OR SMALLER. OPENINGS LARGER THAN 10" SHALL HAVE A SUPPORTING FRAME PER TYPICAL DETAILS.
F. HANGERS: DO NOT HANG LOADS FROM FLOOR DECK. HANGERS TO BE SUPPORTED BY THE CONCRETE SLAB ABOVE THE FLOOR DECK. HANGERS SHALL NOT BE USED ON STEEL ROOF DECK. SUPPORT CEILINGS, LIGHT FIXTURES, DUCTS, ETC. ON ROOF FRAMING.

5.3.4 METAL STUDS

A. REFER TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR GENERAL INFORMATION.
B. REFER TO THE PROJECT SPECIFICATIONS FOR DESIGN AND SUBMITTAL REQUIREMENTS.

SECTION 6 - WOOD - NOT USED

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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS &	2/16/01
CONST DOCS &	3/16/01

Two Rivers Convention Center

M/M Project No: 14386.5.01
SCD Project No: 9924

GENERAL NOTES AND INFORMATION

Drawn by: ONE
Checked by: CBN

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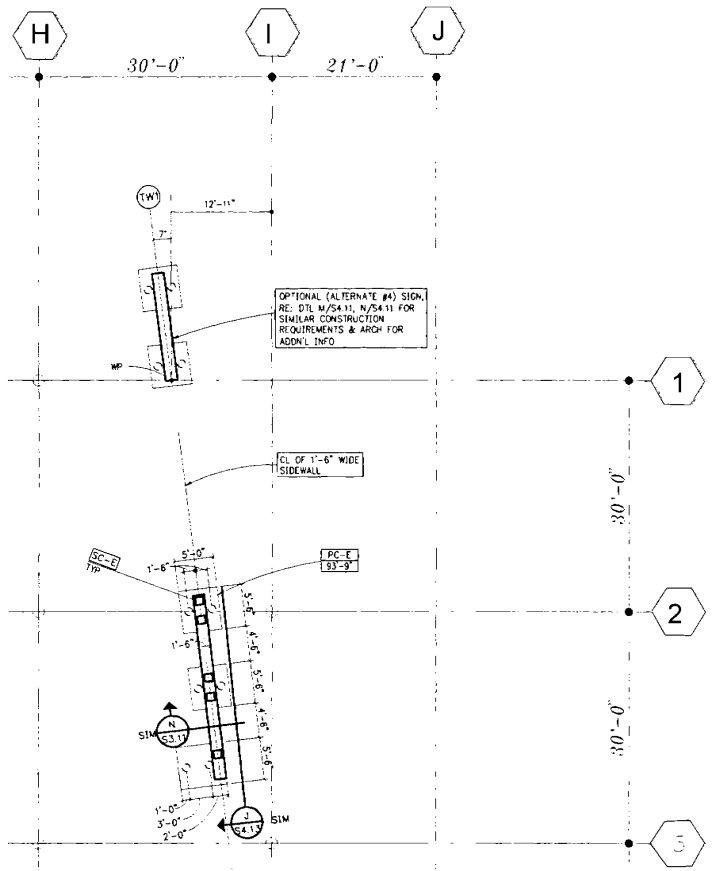
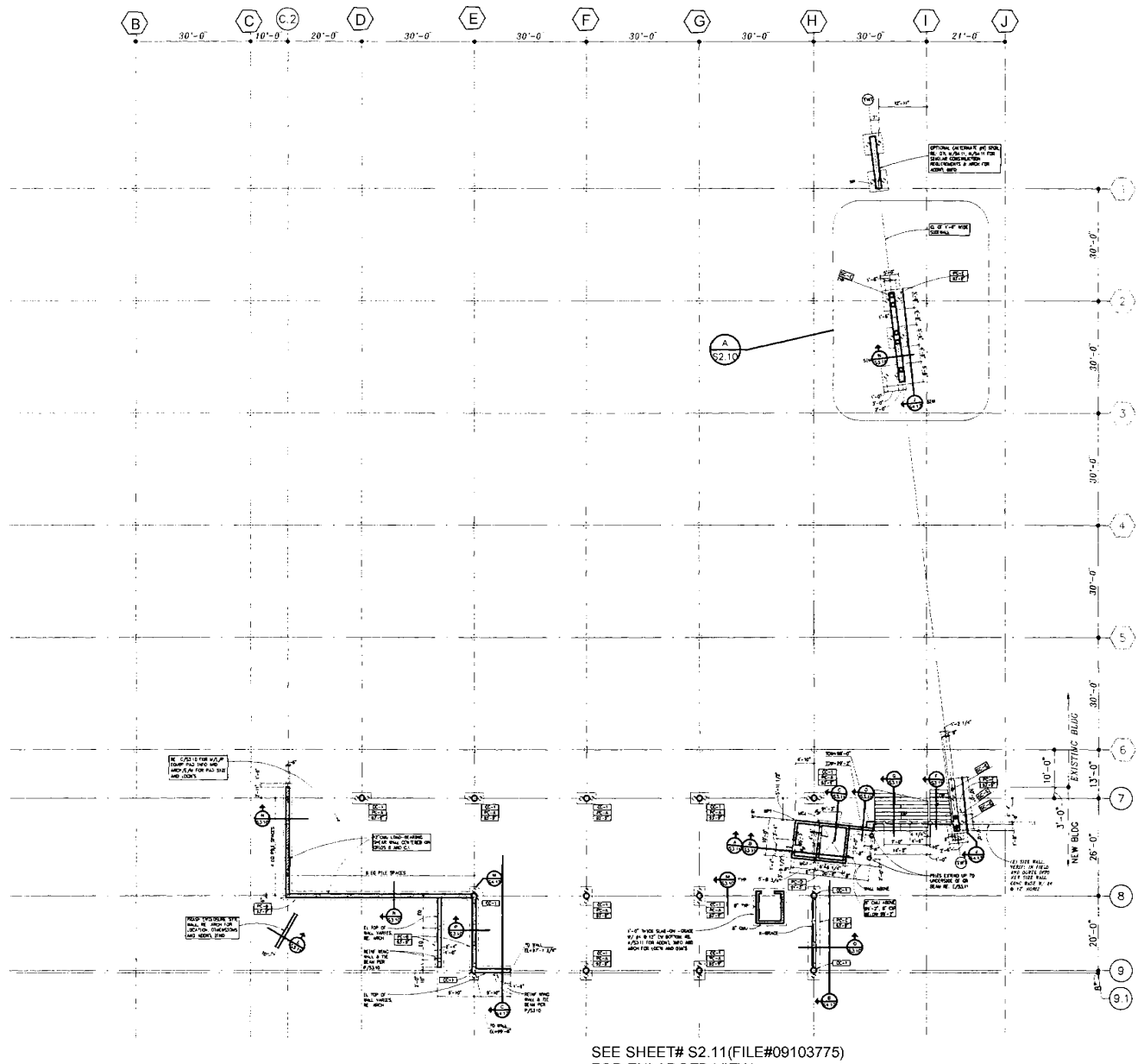


A PARTIAL PLAN
1/8"=1'-0"



SEE SHEET# S2.11(FILE#09103775)
FOR ENLARGED VIEW

PARKING LEVEL FOUNDATION PLAN-OVERALL 1/16"=1'-0

A. SLABS-ON-GRADE

1. SLABS-ON-GRADE SHALL BE 4 INCH THICK NORMAL WEIGHT CONCRETE ON 4 INCH FREE-DRAINING GRAVEL ON NATURAL, UNDISTURBED SOILS OR PROPERLY COMPACTED STRUCTURAL FILL. RE: SOILS REPORT AND SPECIFICATIONS FOR REQUIREMENTS.
2. REINFORCE SLABS-ON-GRADE WITH 6X6 W2.1XW2.1 W.W.F., CENTERED.
3. ELEVATION TOP OF SLABS-ON-GRADE SHALL BE 95'-8" UNLESS NOTED ON PLAN THUS: $\frac{XXX-XX}{}$
4. RE: ARCH DRAWINGS FOR SLAB SLOPES AND DEPRESSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

B. PILES

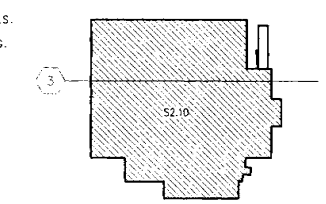
1. RE: K/S3.10 FOR TYPICAL PILE INFORMATION.
2. PILE CAP TYPE NOTED ON PLAN THUS: PC-XX. ALL PILE CAPS ARE TYPE PC-A UNLESS NOTED OTHERWISE. RE: SCHEDULE SHEET S3.10.
3. ALL PILE GROUP CENTROIDS SHALL BE CENTERED ON GRADE BEAMS, WALLS AND GRID LINES UNLESS DIMENSIONED OTHERWISE.
4. TOP OF PILE CAP SHALL BE 93'-9" UNLESS NOTED ON PLAN THUS: (XXX'-X).
5. ALL SITE WALL FOOTINGS SHALL BEAR ON NATURAL, UNDISTURBED SOIL OR PROPERLY COMPACTED STRUCTURAL FILL. RE: SOILS REPORT AND SPECIFICATIONS FOR REQUIREMENTS.

C. COLUMNS/PILASTERS

1. ALL COLUMNS AND PILASTERS ARE CENTERED ON THE INTERSECTION OF GRID LINES UNLESS DIMENSIONED OTHERWISE.
2. TYPICAL CONC COLUMN MARK CC-1 SHALL BE 20" DIAMETER REINFORCED W/ 6-#8 VERT AND #4 TIES @ 16"OC
3. STEEL COLUMNS NOTED ON PLAN THUS: SC-X RE: SCHEDULE, S2.21 FOR COL SIZE AND ADDN'L INFORMATION.

D. MASONRY

1. TYPICAL VERTICAL REINFORCING: REINFORCE 8 INCH AND 12 INCH THICK CMU WALLS WITH #5 AT 24 INCHES OC VERTICAL. LAP VERTICAL REINFORCING 48 BAR DIAMETERS MINIMUM.
2. CENTER VERTICAL REINFORCING IN WALL AND GROUT ALL CELLS SOLID. PROVIDE VERTICAL REINFORCING FOR THE FULL WALL HEIGHT AT EACH SIDE OF ALL WALL OPENINGS, EACH SIDE OF CONTROL JOINTS AND AT ENDS OF WALLS.
3. TYP. CAL HORIZONTAL REINFORCING: PROVIDE CONTINUOUS BOND BEAMS WITH 2-#5 HORIZONTAL AT EACH LEVEL, TOP OF WALLS, AND AT 8'-0 ON CENTER MAXIMUM SPACING. MAKE BOND BEAM REINFORCING CONTINUOUS AROUND CORNERS.
4. RE: ARCH/PLAN FOR DIMENSIONS OF ALL MASONRY WALLS.
5. RE: SPECIFICATIONS FOR WALL CONTROL JOINTS.
6. ALL MASONRY WALL DOWELS SHALL BE A706 REINFORCING.
7. RE: S3.11 FOR TYPICAL MASONRY DETAILS.



KEY PLAN

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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & 1	2/16/01
CONST DOCS & 2	3/16/01

Two Rivers Convention Center

M/M Project No. 14386.S.01
SCD Project No.: 9924

PARKING LEVEL FOUNDATION PLAN - OVERALL

Drawn by: DNE
Checked by: CBN

S2.10

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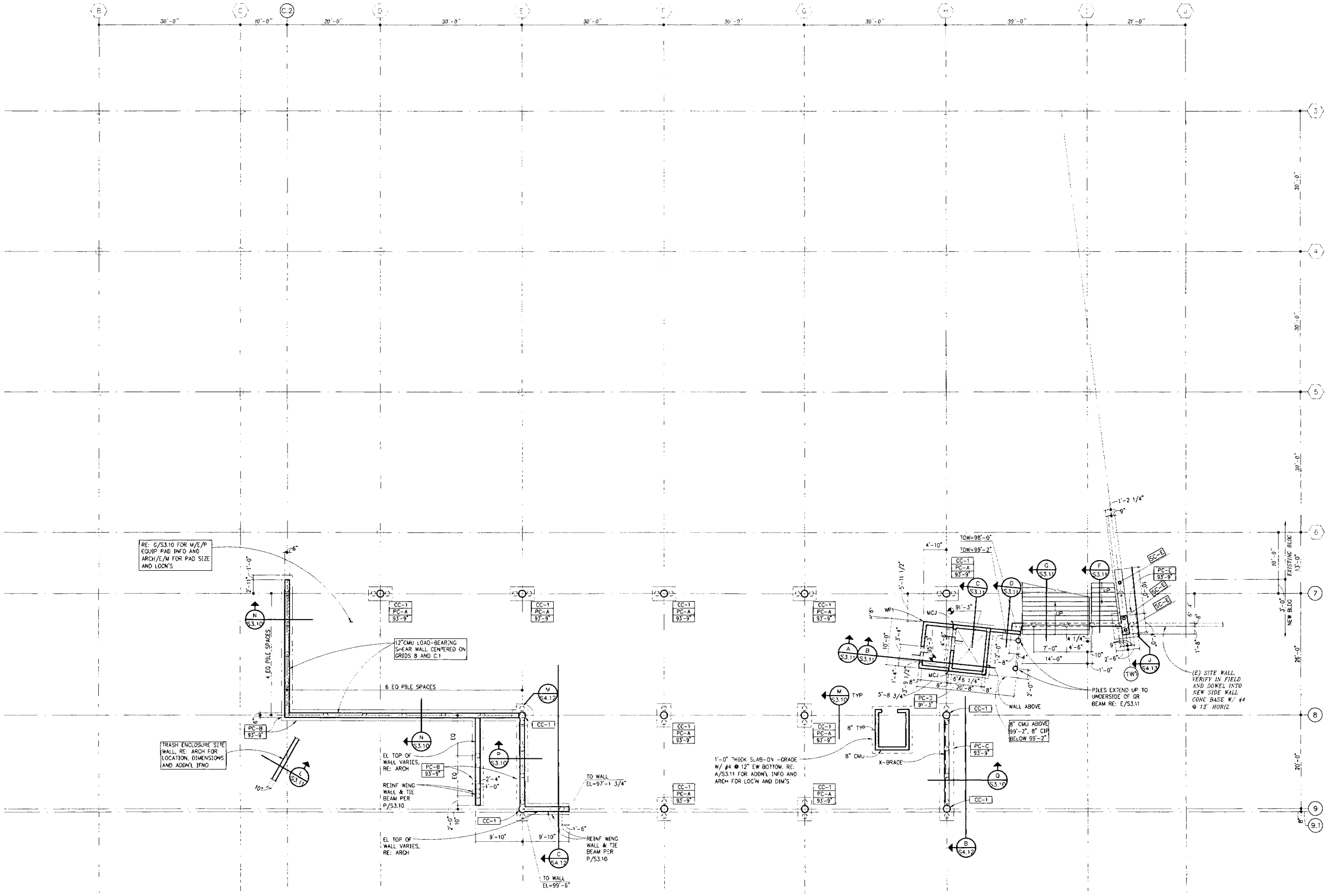
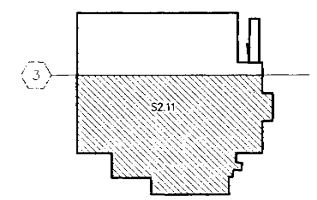


PARKING LEVEL FOUNDATION PLAN - ENLARGED 1/8"=1'-0

RE: S2.10 FOR PLAN NOTES



KEY PLAN

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Two Rivers Convention Center

M/E Project No. 14386.S.01
SCD Project No.: 9924

PARKING LEVEL FOUNDATION PLAN - ENLARGED

Drawn by: DVE
Checked by: CBN

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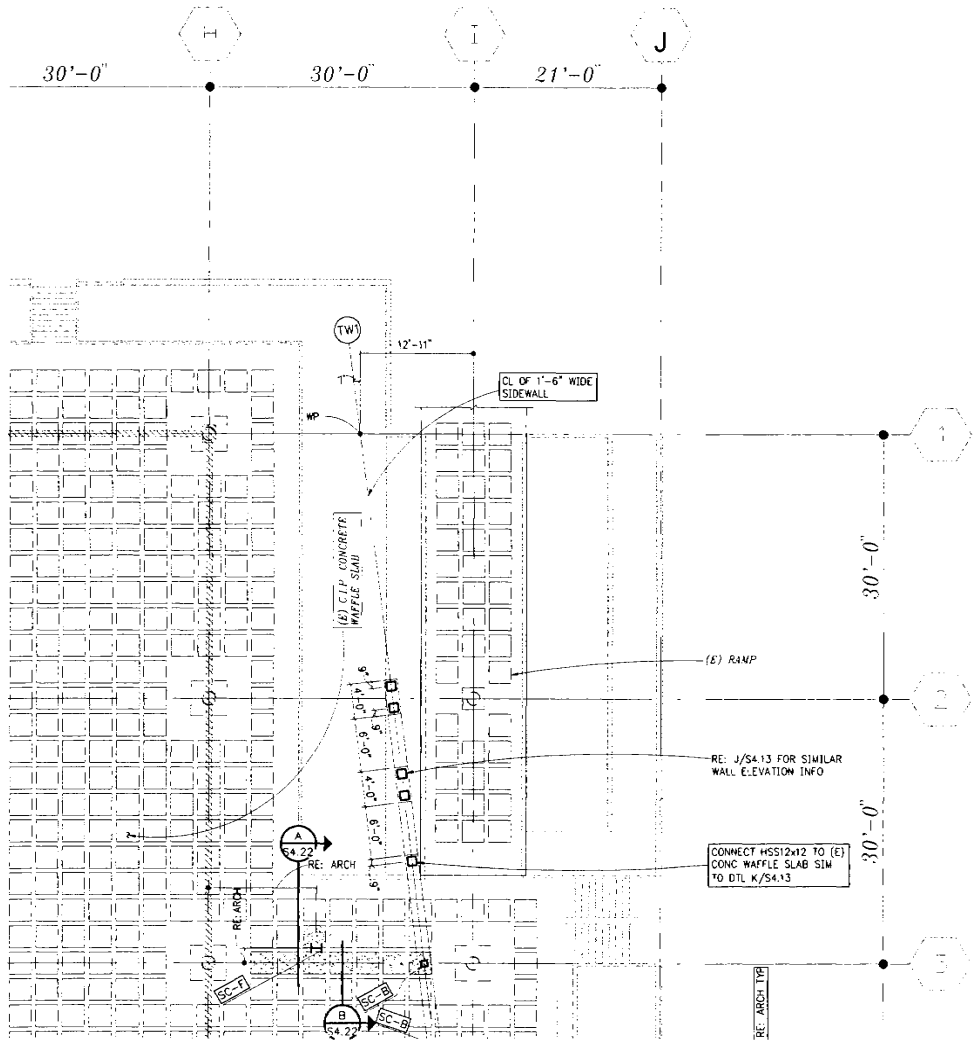
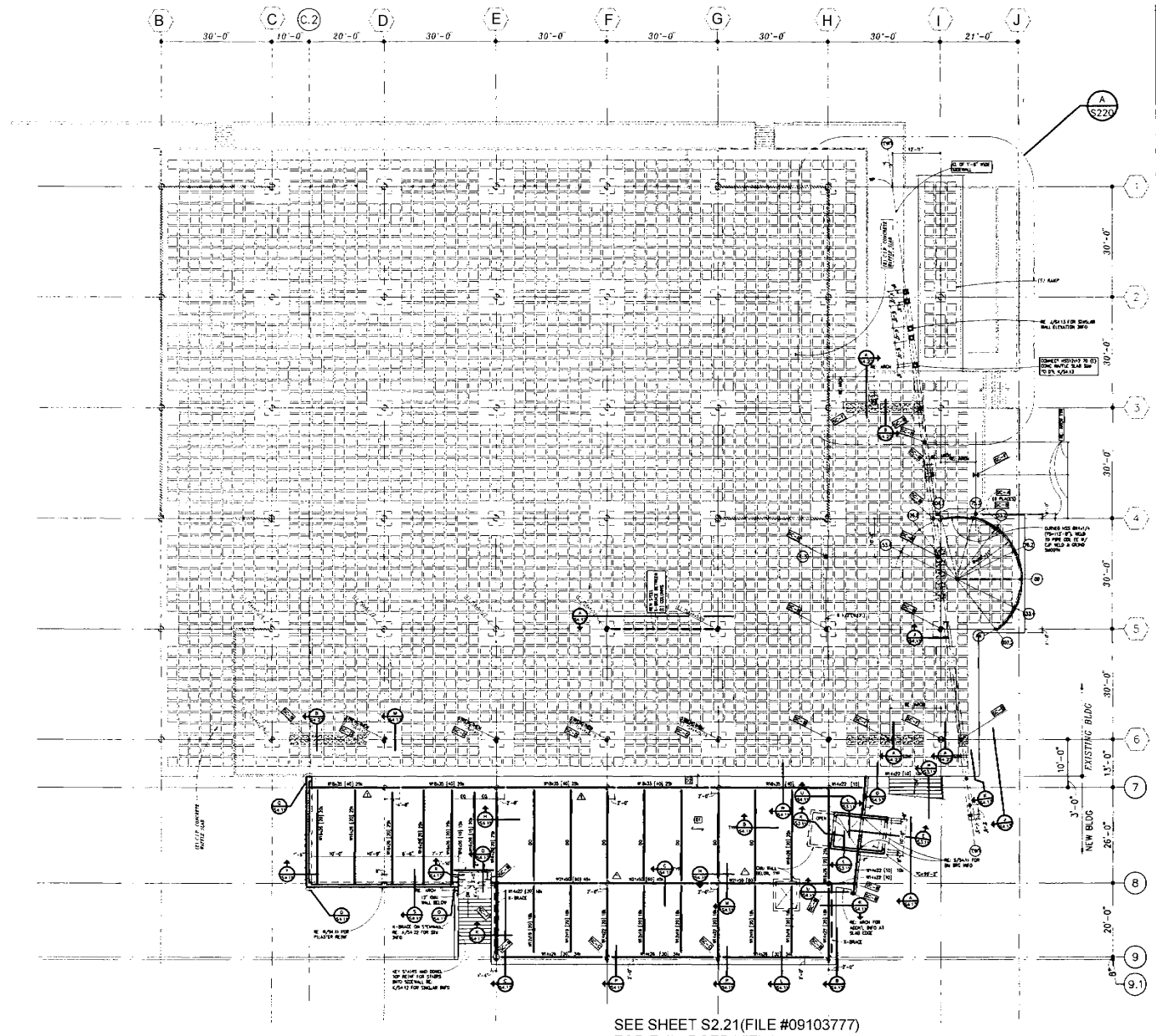


A PARTIAL PLAN
1/8"=1'-0"



SEE SHEET S2.21(FILE #09103777)
FOR ENLARGED VIEW

PLAZA LEVEL PLAN-OVERALL

1/16"=1'-0

A. COLUMNS:

1. ALL COLUMNS CENTERED ON INTERSECTION OF GRID LINES UNLESS DIMENSIONED OTHERWISE.
2. RE: PLAN FOR STEEL COLUMN SIZE.

B. STRUCTURAL SLAB:

1. ELEVATION TOP OF CONCRETE 105'-0" U.N. THUS: TC (XX'-XX).
2. METAL DECK AND STRUCTURAL SLAB TYPE NOTED ON PLAN THUS: DX
   RE: SCHEDULE, SHEET S4.11 FOR SLAB REQUIREMENTS.
3. SLAB THICKNESS, MEASURED ABOVE STEEL BEAMS, SHALL BE 5 1/4" MINIMUM AND 5 3/4" MAXIMUM. TOP OF STEEL SURVEY IS REQUIRED PRIOR TO PLACING SLAB CONCRETE. RE: SPECIFICATIONS.
4. SUBMIT LOCATION OF SLAB CONSTRUCTION JOINTS FOR REVIEW THREE WEEKS (MINIMUM) PRIOR TO POUR. FOR COMPOSITE BEAMS, DO NOT PLACE CONSTRUCTION JOINTS ON BEAM FLANGE. RE: D/S4.11 FOR SUGGESTED LOCATIONS OF CONSTRUCTION JOINTS.

C. METAL DECK:

1. DIRECTION OF METAL DECK SPAN NOTED ON PLAN THUS: ⟷
2. COMPOSITE DECK:
   a. RE: METAL DECK AND STRUCTURAL SLAB SCHEDULE, SHEET S4.11 FOR DECK REQUIREMENTS.
   b. DECK CONFIGURATION MAY AFFECT THE NUMBER OF SHEAR STUDS REQUIRED. RE: SPECIFICATIONS.
   c. RE: SPECIFICATIONS FOR DECK FINISH.

D. STEEL BEAMS:

1. EQUALLY SPACED BETWEEN GRID LINES UNLESS DIMENSIONED OTHERWISE.
2. TOP OF BEAM ELEVATION: 5 1/4" BELOW TC U.N. ON PLAN THUS: (-) X" [U.N. ON PLAN THUS: (XXX)].
3. FABRICATE BEAMS SUCH THAT ROLLING OR FABRICATION INDUCED CAMBER IS UP AFTER ERECTION.
4. ALL WIDE FLANGE BEAMS ARE A572, GRADE 50 U.N.O.
5. REQUIRED BEAM END CONNECTION CAPACITY, IN KIPS, NOTED ON PLAN THUS: XXk. IF TWO SYMBOLS ARE SHOWN THEY DENOTE CONNECTION REQUIRED AT THE CORRESPONDING BEAM END. IF ONLY ONE SYMBOL SHOWN, IT DENOTES CONNECTION REQUIRED AT EACH END OF BEAM. REFER TO THE CONNECTIONS SCHEDULE(S), SHEET S4.10.

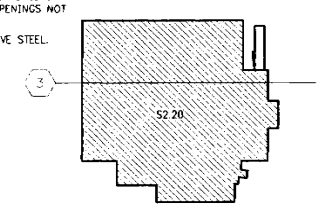
E. SHEAR CONNECTORS:

1. ALL CONNECTORS SHALL BE 3/4" DIAMETER X 0'-4" (NET-IN-PLACE LENGTH) HEADED ANCHOR STUDS.
2. NUMBER OF STUDS REQUIRED PER BEAM NOTED THUS: (XX)
3. RE: SHEET S4.11 FOR TYPICAL STUD LAYOUT AND SPACING DETAILS.
4. SUBMIT SHOP DRAWINGS INDICATING STUD LAYOUT (NO. OF STUDS/RIB) AND PLACEMENT ALONG BEAMS.

F. MECHANICAL AND ELECTRICAL EQUIPMENT LOADS:

1. XXX SYMBOL INDICATES MECHANICAL AND ELECTRICAL EQUIPMENT OPERATING WEIGHT IN KIPS INCLUDING INERTIA BASE AND HOUSEKEEPING PAD.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES FROM THAT SHOWN ON THE STRUCTURAL DRAWINGS. CHANGES IN LOCATION AND/OR INCREASE IN EQUIPMENT WEIGHT SHALL BE SUBJECT TO WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
3. EQUIPMENT SUPPORTS BY MECHANICAL CONTRACTOR.
4. NO EQUIPMENT SHALL BE SUPPORTED DIRECTLY ON STRUCTURAL SLAB.
5. ALL SLAB OPENINGS GREATER THAN 10 INCHES IN ANY DIRECTION SHALL BE REINFORCED ON ALL FOUR SIDES. RE: DETAIL G/S4.11 FOR TYPICAL SLAB OPENING REINFORCING.
6. RE: MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.

G. RE: ARCH DRAWINGS FOR NON-STRUCTURAL DECORATIVE STEEL.



KEY PLAN

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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & 1	2/16/01
CONST DOCS & 2	3/16/01

Two Rivers Convention Center

M/M Project No. 14386.5.01
SCD Project No. 9924

PLAZA LEVEL PLAN - OVERALL

Drawn by: DNE
Checked by: CBN

S2.20

09103776.tif

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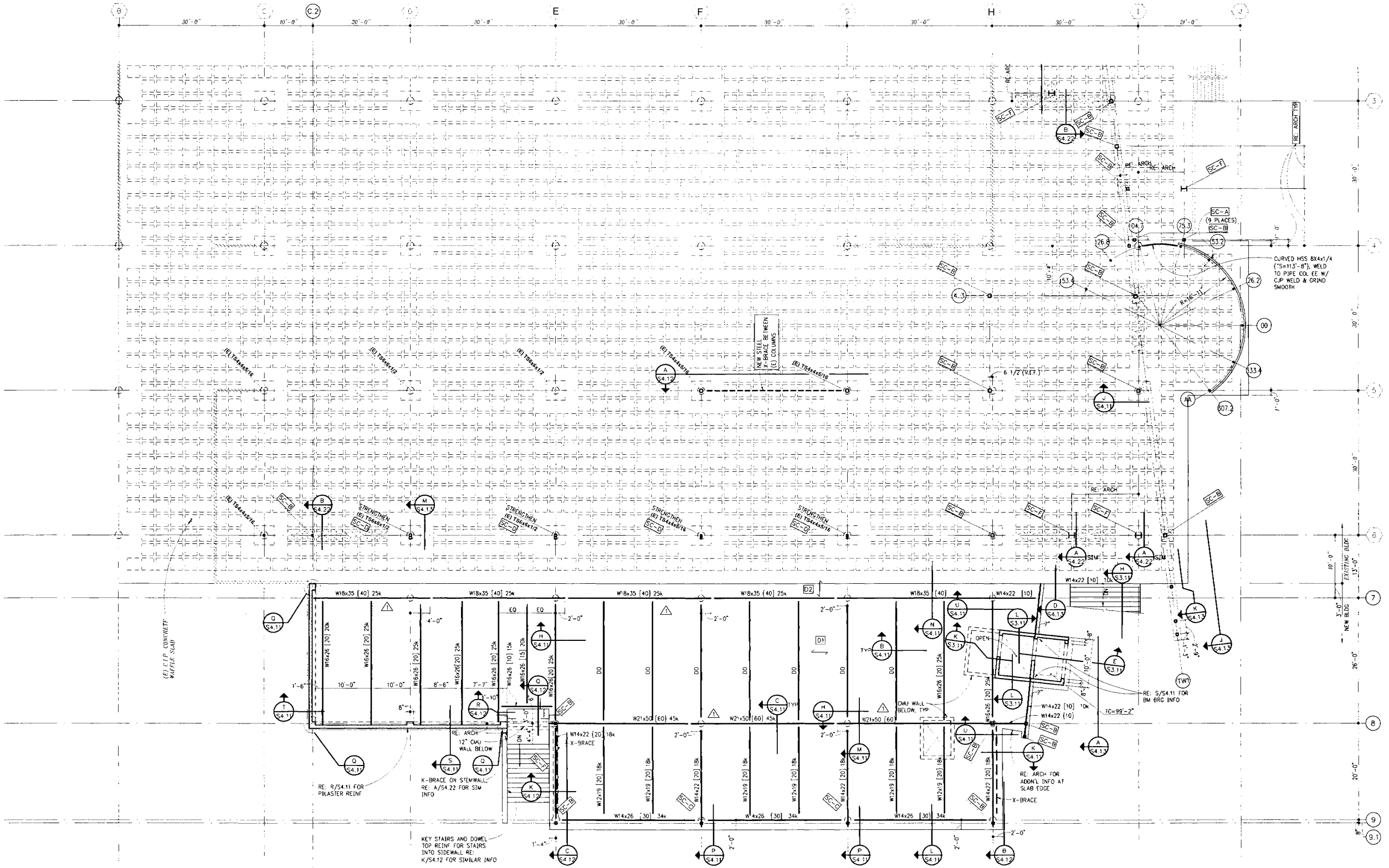
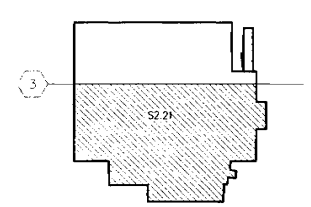


MARK	COLUMN SIZE	REFERENCE DETAIL(S)
SC-A	5"ø STD PIPE	J/S4.11
SC-B	HSS6X6x1/4	J/S4.11, B/S4.22
SC-C	HSS6X6x3/8	P/S4.11
SC-D	HSS6X4x1/2 ⚠1	M/S4.13
SC-E	HSS12X12x1/4	M/S3.11
SC-F	W6x20	A/S4.22

A COLUMN SCHEDULE
NO SCALE

PLAZA LEVEL FRAMING PLAN - ENLARGED 1/8"=1'-0

RE: S2.20 FOR PLAN NOTES



KEY PLAN

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DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & ⚠1	2/16/01
CONST DOCS & ⚠2	3/16/01

Two Rivers Convention Center

M/M Project No: 14386.S.01
SCD Project No: 9924

PLAZA LEVEL FRAMING PLAN - ENLARGED

Drawn by: DNE
Checked by: CBN

S2.21

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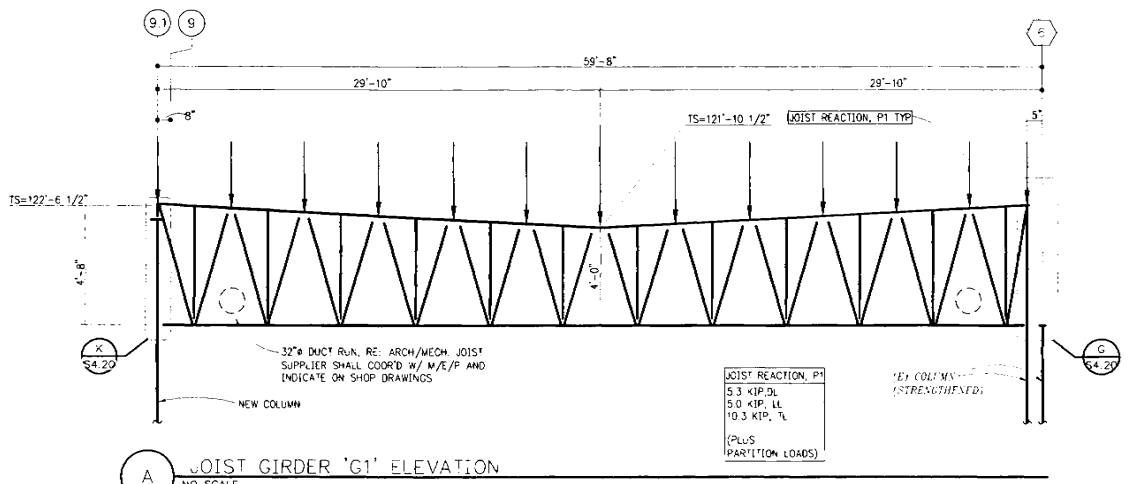
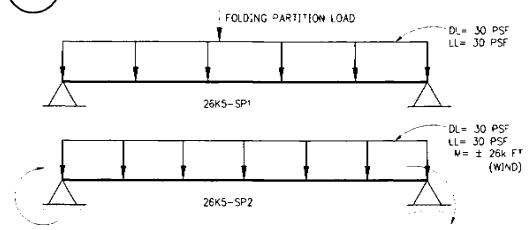
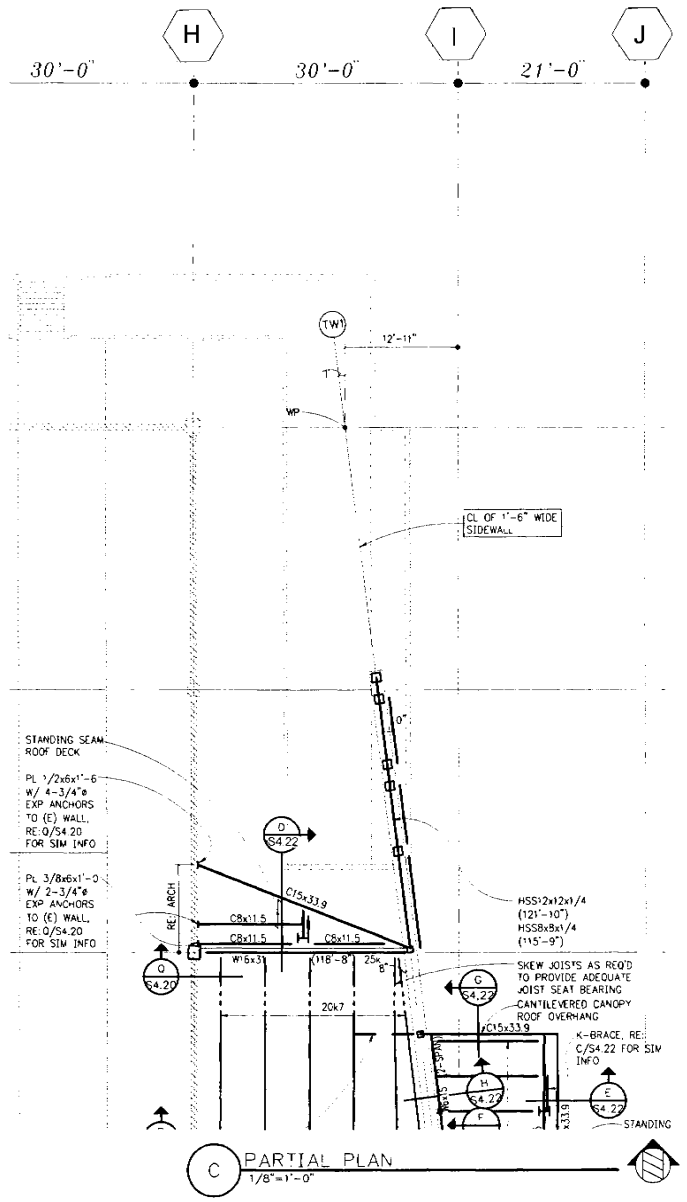


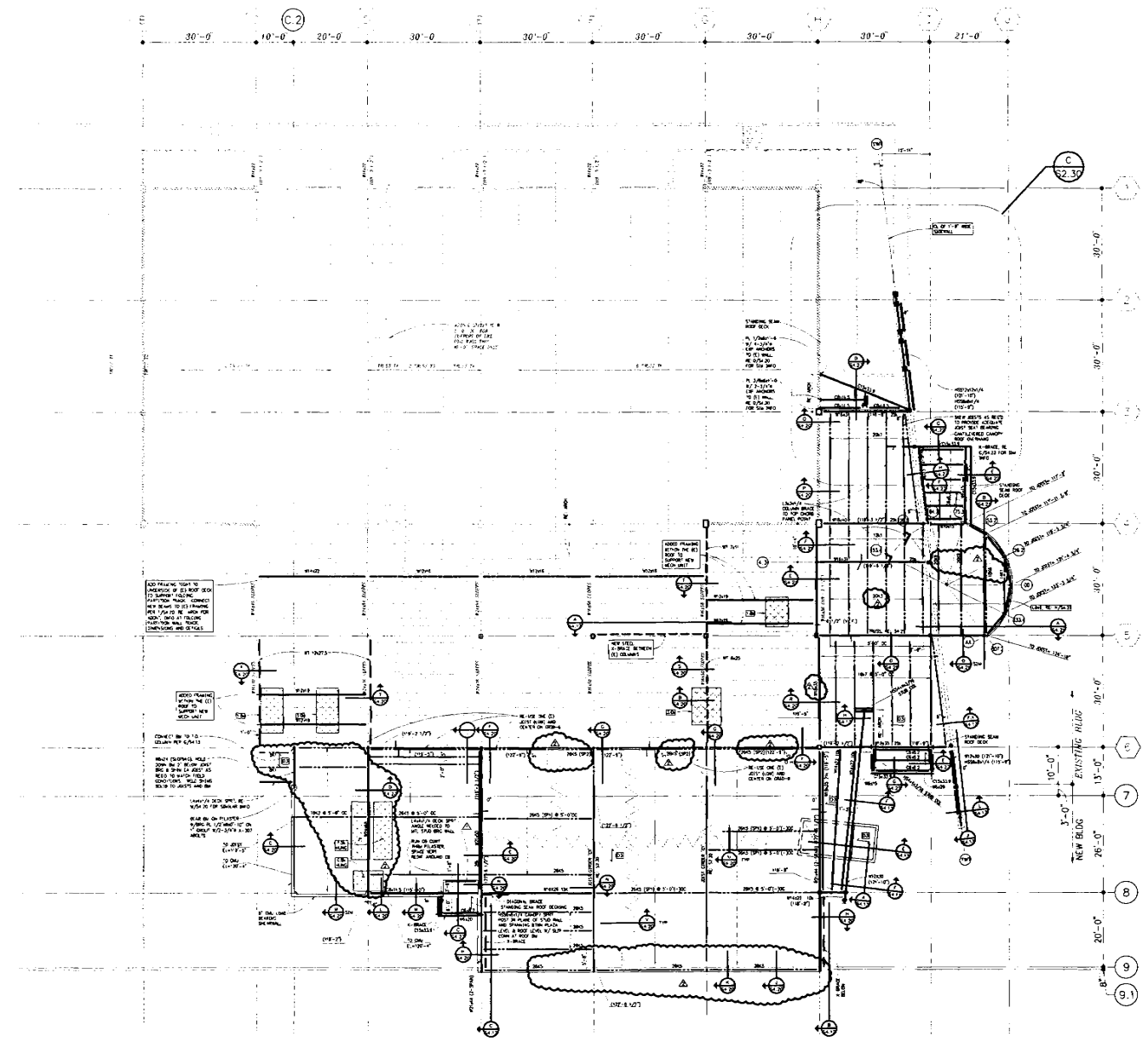
A JOIST GIRDER 'G1' ELEVATION
NO SCALE



B SPECIAL JOIST LOADING DIAGRAMS
NO SCALE



C PARTIAL PLAN
1/8"=1'-0"



SEE SHEET S2.31 FILE #09103779
FOR ENLARGED VIEW

ROOF FRAMING PLAN - OVERALL
1/16"=1'-0

A. METAL DECK:

1. METAL ROOF DECK SHALL BE 1-1/2 INCH TYPE 'B' DECK. RE: S4.11 FOR DECK REQUIREMENTS.
2. MINIMUM DIAPHRAGM SHEAR CAPACITY SHALL BE 500 PLF. MINIMUM DECK ATTACHMENTS TO BE AS FOLLOWS:
   a. ATTACH DECK TO SUPPORTING MEMBERS WITH SEVEN 5/8 INCH DIAMETER PUDDLE WELDS PER 36 INCH WIDE DECK SHEET.
   b. ATTACH DECK TO EDGE ANGLES AND MEMBERS PARALLEL TO CORRUGATIONS WITH 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES O.C.
   c. CONNECT DECK SIDE LAPS WITH #10 TEK SCREWS AT 12 INCHES O.C.
3. DIRECTION OF DECK SPAN NOTED ON PLAN THUS: ⟵

B. STEEL BEAMS:

1. ELEVATION TOP OF STRUCTURAL STEEL NOTED ON PLAN THUS: (XXX'-X).
2. BEAM END REACTIONS, IN KIPS, NOTED ON PLAN THUS: XXX
3. ALL BEAMS ARE A572 GRADE 50.

C. STEEL JOISTS:

1. UNLESS NOTED ELSEWHERE ALL 'K' SERIES JOISTS HAVE 2 1/2" DEEP BEARING SEATS. JOIST GIRDERS HAVE 7 1/2" DEEP BEARING SEATS;
2. JOIST BEARING ELEVATION NOTED ON PLAN THUS: (XXX'-X)
3. JOISTS DESIGNATED '26K' INDICATES A 26 INCH DEEP K SERIES OPEN WEB STEEL JOIST.
4. JOISTS DESIGNATED '26KSP' INDICATES A 26 INCH DEEP JOIST WITH SPECIAL LOADING AND/OR DEFLECTION REQUIREMENTS. RE: NOTES AND DETAILS FOR DESIGN CRITERIA OF SPECIAL JOISTS.
5. JOIST GIRDERS, JOISTS AND JOIST BRIDGING SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT LOADS DUE TO WIND:
   a. 20 PSF APPLIED OVER THE ENTIRE ROOF AREA.
   b. 30 PSF APPLIED AT ROOF OVERHANGS.
6. RE: DETAILS FOR JOISTS REQUIRING EXTENDED ENDS.

D. MECHANICAL EQUIPMENT:

1. CONTRACTOR SHALL VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.
2. MECHANICAL EQUIPMENT WEIGHTS, IN KIPS, NOTED ON PLAN THUS: [---XXX---]. MECHANICAL EQUIPMENT WEIGHT SHALL BE EVENLY DISTRIBUTED TO ALL SUPPORTING JOISTS. EQUIPMENT TO BE PLACED TO BEAR ON TWO JOISTS MINIMUM. EACH SUPPORTING JOIST AND/OR JOIST GIRDER SHALL BE DESIGNED TO SUPPORT A CONCENTRATED LOAD FROM THE MECHANICAL EQUIPMENT. THIS LOAD IS IN ADDITION TO THE JOIST UNIFORM LOADS OR JOIST GIRDER POINT LOADS INDICATED. PROVIDE MINIMUM JOIST SIZE AS INDICATED.
3. RE: DETAIL B/S4.20 FOR JOIST CHORD SUPPORT AT MECHANICAL EQUIPMENT.
4. ALL OPENINGS IN METAL DECK GREATER THAN 10 INCHES IN ANY DIRECTION SHALL BE SUPPORTED ON ALL FOUR SIDES BY A STEEL FRAME SPANNING BETWEEN DECK SUPPORTS. RE: A/S4.20 FOR TYPICAL FRAMING AT ROOF DECK OPENINGS.

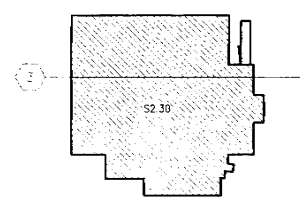
E. OWNER'S SNOW REMOVAL PLAN:

HENCEFORTH FOR THE LIFE OF THIS STRUCTURE, THE BUILDING OWNER SHALL IMPLEMENT A 'SNOW REMOVAL PLAN' WHICH INCLUDES THE MANUAL REMOVAL OF SNOW ACCUMULATION IN ANY AREA OF THE ORIGINAL ROOF STRUCTURE THAT EXCEEDS 30 POUNDS PER SQUARE FOOT (PSF) UNIFORMLY DISTRIBUTED.

THIS MANUAL SNOW REMOVAL IS REQUIRED BECAUSE THE STRUCTURAL RECORD DOCUMENTS INDICATE THE ORIGINAL ROOF STRUCTURE WAS DESIGNED FOR ONLY 30 PSF UNIFORM SNOW LIVE LOAD WITHOUT CONSIDERATION FOR SNOW DRIFTING. STRENGTHENING THE EXISTING ROOF STRUCUTRE FOR DRIFTING SNOW WAS NOT DESIRED BY THE OWNER AT THE TIME OF THIS BUILDING ADDITION.

F. FOLDING PARTITIONSUSPENCED FROM ROOF JOISTS:

1. INDICATES FOLDING PARTITIONS IN STACKED CONFIGURATION, TOTAL WEIGHT VARIES WITH EA LOCATION AND SHALL BE COORD W/ PARTITION SUPPLIER
2. INDICATES FOLDING PARTITIONS IN EXTENDED POSITION, WEIGHT/FT SHALL BE COORD W/ PARTITION SUPPLIER
3. JOIST SUPPLIER SHALL INCORPORATE WEIGHT OF FOLDING PARTITIONS INTO THE JOIST DESIGN WHERE NOTED AS (SP) ON PLAN.



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PROGRESS DWGS & 1	2/16/01
CONST DOCS & 2	3/16/01

Two Rivers Convention Center

M/M Project No. 14366.01
SCD Project No. 9923

ROOF FRAMING PLAN - OVERALL

Drawn by: DHE
Checked by: CBM

S2.30

09103778.tif

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Two Rivers Convention Center

M/M Project No 14386.S.01
SCD Project No 9924

ROOF FRAMING PLAN - ENLARGED

Drawn by DNE
Checked by CBN

S2.31

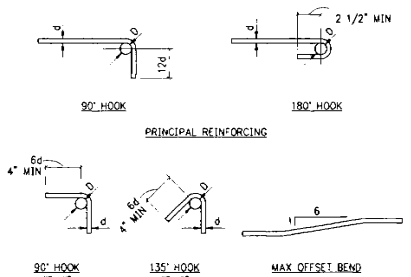
09103779.tif

ROOF FRAMING PLAN - ENLARGED

1/8"=1'-0

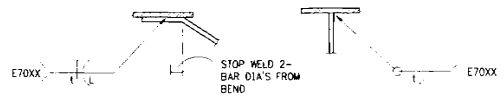
RE: S2.30 FOR PLAN NOTES

KEY PLAN



NOTES
1. ALL BENDS SHALL BE MADE COLD.
2. #14 & #18 BARS SHALL BE BEND TESTED & LAB APPROVED PRIOR TO BENDING.
3. RE: ACI-318 FOR 'D'.

A TYP BAR BENDS
NO SCALE

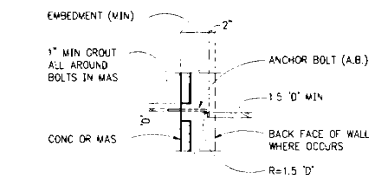


BAR SIZE	WELD t	SIZE L
#3	3/16"	2"
#4	1/4"	2 1/2"
#5	5/16"	3"
#6	3/8"	3 1/2
#7	7/16"	4"

BAR SIZE	WELD t
#3	1/4"
#4	5/16"
#5	3/8"
#6	7/16"
#7	1/2"

NOTES:
1. ALL REINF TO BE WELDED SHALL CONFORM TO ASTM A706

B TYP REBAR WELD SCHED
NO SCALE



BOLT SIZE	EMBEDMENT	MIN SPACING	MIN EDGE DIST
1/2"	4"	6"	3"
5/8"	4"	7 1/2"	3 3/4"
3/4"	5"	9"	4 1/2"
7/8"	6"	10 1/2"	5 1/4"

PROVIDE 3/4"ø ANCHOR BOLTS UNLESS NOTED OTHERWISE
HEADED BOLTS MAY BE PROVIDED IN LIEU OF HOOKS

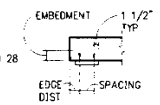
C TYP ANCHOR BOLT SCHEDULE
NO SCALE

IN CONCRETE HILTI "KWIK" BOLTS ICBO # 2156			
BOLT SIZE	MIN EMBEDMENT	MIN SPACING	EDGE DISTANCE
1/4"ø	2"	3 1/2" 3 1/2"	
3/8"ø	3"	5" 5"	
1/2"ø	4"	7" 6 3/4"	
5/8"ø	5"	9" 8 1/4"	
3/4"ø	6"	10" 9 3/4"	
1"ø	8"	14" 13 1/2"	

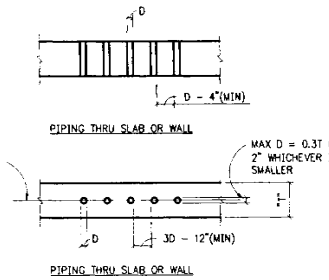
IN CONCRETE BLOCK HILTI SLEEVE ANCHORS			
BOLT SIZE	MIN EMBEDMENT	MIN SPACING	EDGE DISTANCE
1/4"ø	1"	2" 2"	
5/16"ø	1"	2" 2"	
3/8"ø	1 1/4"	2 1/2" 2 1/2"	
1/2"ø*	1 1/2"	3" 3"	
5/8"ø*	2"	4" 4"	
3/4"ø*	2"	4" 4"	

* SOLID GROUT CELLS TO RECEIVE BOLTS

NOTES:
1. PROVIDE 3/8"ø FASTENERS UNLESS NOTED OTHERWISE.
2. INSTALL PER MANUFACTURERS RECOMMENDATIONS
3. DO NOT INSTALL UNTIL CONCRETE & GROUT HAS REACHED 28 DAYS STRENGTH



D TYP EXPANSION BOLT SCHED
NO SCALE



NOTE: WHERE CLEAR DISTANCE BETWEEN SLEEVES IS IMPOSSIBLE THIS AREA SHALL BE TREATED AS A SLAB OR WALL OPENING REINFORCED AS PER TYPICAL OPNG DTLS ~ SCH 40 SLEEVES ARE REQUIRED PER UBC 2906 (C)6 IF SLEEVES ARE LOCATED IN CRITICAL AREAS AS DETERMINED BY THE STRUCTURAL ENGINEER.

E PIPING OR CONDUIT IN OR THRU SLAB OR WALL
NO SCALE

SCHEDULE I

LAP SPLICE 'L' IN INCHES

BAR SIZE	f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI	
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	17	22	15	19	13	17
#4	22	29	19	25	17	23
#5	28	36	24	31	22	28
#6	33	43	29	37	26	34
#7	48	63	42	54	38	49
#8	55	72	48	62	43	56
#9	62	81	54	70	48	63
#10	78	102	68	88	61	79
#11	96	125	83	108	74	97

LOCATION IN STRUCTURE ~ BOTTOM BARS OF BEAMS, WALLS, JOIST AND SLABS TOP BARS OF SLABS 14" OR LESS IN DEPTH AND VERTICAL STEEL.

SCHEDULE II

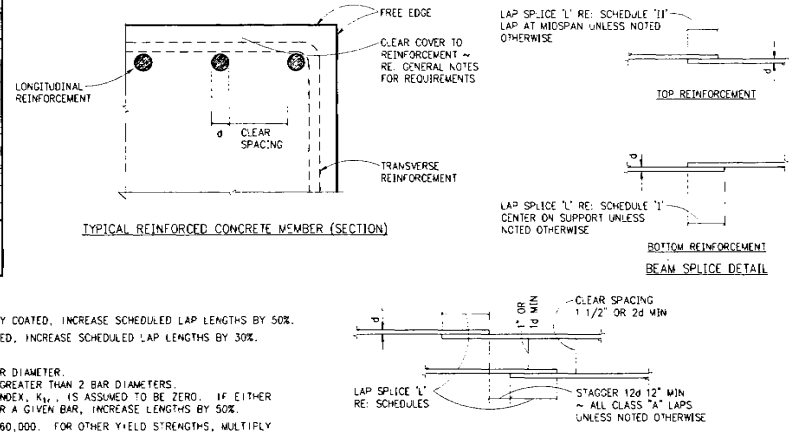
LAP SPLICE 'L' IN INCHES

BAR SIZE	f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI	
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	22	28	19	24	17	22
#4	29	37	25	33	23	29
#5	36	47	31	41	28	36
#6	43	56	37	49	34	43
#7	63	81	54	71	49	63
#8	72	93	62	81	56	72
#9	81	105	70	91	63	81
#10	102	132	88	115	79	103
#11	125	162	108	141	97	126

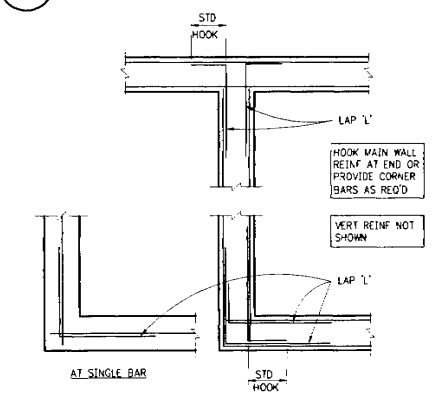
LOCATION IN STRUCTURE ~ TOP BARS IN BEAMS AND JOISTS AND SLABS GREATER THAN 14" IN DEPTH. HORIZONTAL WALL STEEL.

LAP SPLICE NOTES:
1. ALL SPLICES SHALL BE WIRED IN CONTACT.
2. ALL SPLICES ARE "CLASS B" UNLESS NOTED OTHERWISE.
3. SMALLER BAR LAP LENGTH MAY BE USED WHEN SPLICING DIFFERENT SIZED BARS.
4. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED.
5. BUNDLED BAR SPLICES:
   A. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL BE STAGGERED.
   B. INCREASE LAP LENGTH 20% FOR A 3 BAR BUNDLE.
   C. INCREASE LAP LENGTH 33% FOR A 4 BAR BUNDLE.
6. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED ld (DEVELOPMENT LENGTH) INTO CONCRETE, THIS LENGTH SHALL CORRESPOND TO A "CLASS A" LAP.

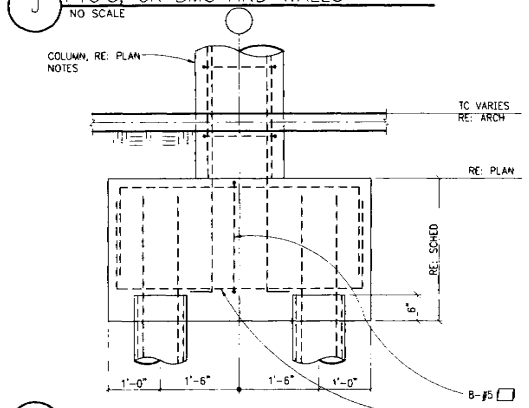
ADJUSTMENT(S) TO GIVEN LAP LENGTHS
1. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LAP LENGTHS BY 50%.
2. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP LENGTHS BY 30%.
3. SCHEDULED LAP LENGTHS ASSUME:
   A. CLEAR COVER IS GREATER THAN BAR DIAMETER.
   B. CLEAR SPACING BETWEEN BARS IS GREATER THAN 2 BAR DIAMETERS.
   C. THE TRANSVERSE REINFORCEMENT INDEX, K_{tr}, IS ASSUMED TO BE ZERO. IF EITHER CONDITION A OR B IS NOT MET FOR A GIVEN BAR, INCREASE LENGTHS BY 50%.
4. SPLICE LENGTHS NOTED BASED ON Fy = 60,000. FOR OTHER YIELD STRENGTHS, MULTIPLY SPLICE LENGTHS NOTED BY Fy/60,000.



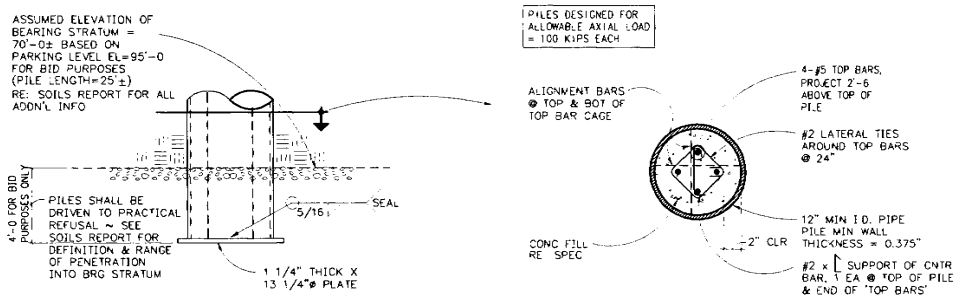
F REINFORCING BAR - LAP SPLICE/DEVELOPMENT LENGTH SCHEDULE
NO SCALE



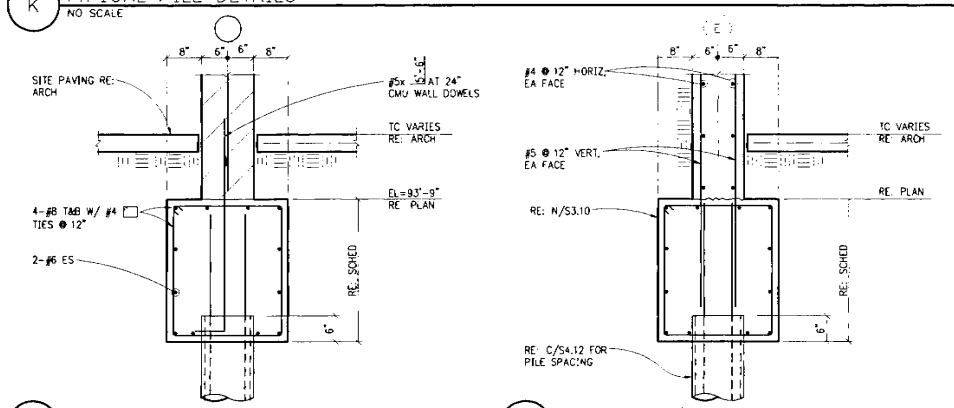
J TYP HORIZ REINF IN FTG'S, GR BMS AND WALLS
NO SCALE



M CONC COLUMN/PILE CAP
3/4"=1'-0"



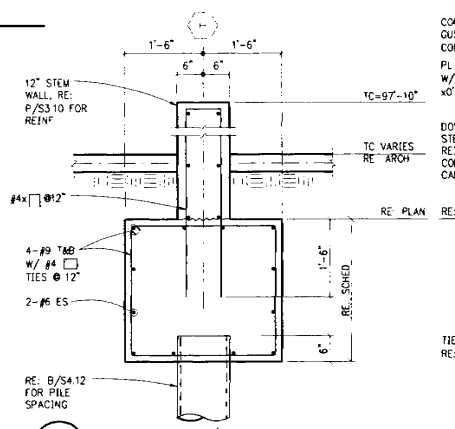
K TYPICAL PILE DETAILS
NO SCALE



N CMU WALL/TIE BM
3/4"=1'-0"

P CONC WALL/TIE BM
3/4"=1'-0"

G TYPICAL MECH/ELEC HOUSEKEEPING PAD
NO SCALE

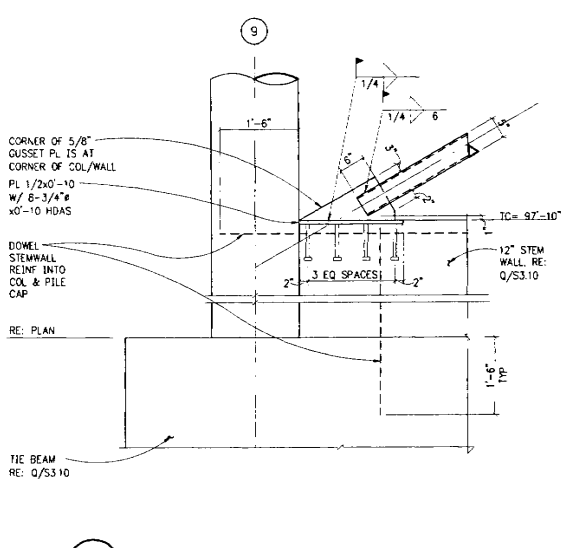


H TYP SLAB ON GRADE DETAILS
NO SCALE

PILE CAP/TIE BEAM SCHDULE				
MARK	WIDTH	LENGTH	DEPTH	REFERENCE DTL
PC-A	3'-0"	5'-0"	2'-9"	M/S3.10
PC-B	2'-4"	CONT	2'-9"	N, P/ S3.10
PC-C	3'-0"	CONT	2'-9"	Q/ S3.10
PC-D	11'-4"	RE: PLAN	2'-0"	B/ S3.11
PC-E	3'-0"	RE PLAN	2'-9"	N/ S3.11

L PILE CAP SCHEDULE
NO SCALE

Q CONC WALL/TIE BM
3/4"=1'-0"



R X-BRACE DETAIL
3/4"=1'-0"

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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & 1	2/16/01
CONST DOCS & 2	3/16/01

Two Rivers Convention Center

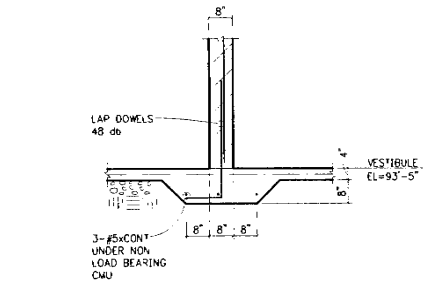
M/M Project No: 14386.5.01
SCD Project No: 9924

TYPICAL FOUNDATION DETAILS & SCHEDULES

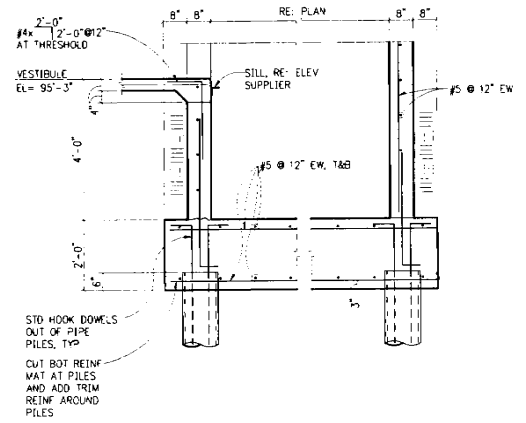
Drawn by: CNE
Checked by: CBN

S3.10

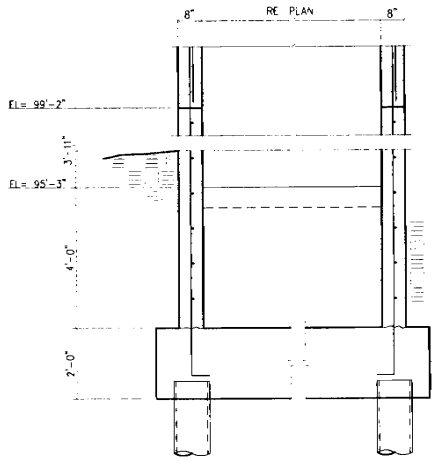
09103780.tif



A THICKENED SLAB-ON-GRADE
1/2"=1'-0"



B ELEVATOR PIT SECTION
1/2"=1'-0"



C ELEVATOR PIT SECTION
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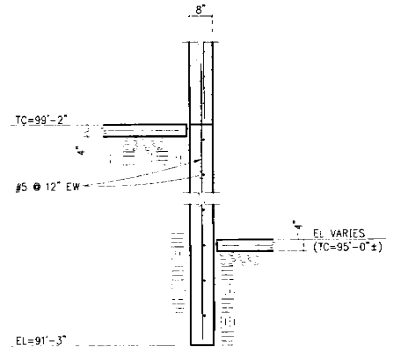

D RETAINING WALL SECTION
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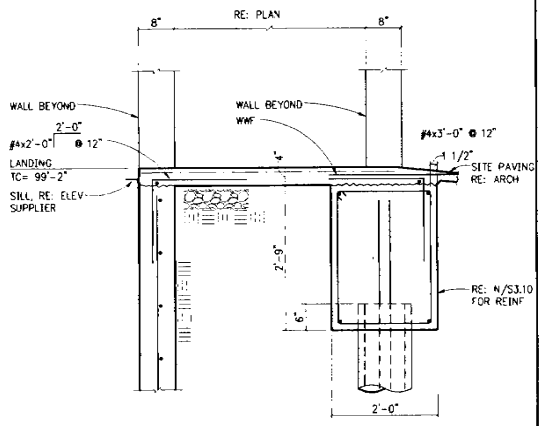

E ELEVATOR LANDING
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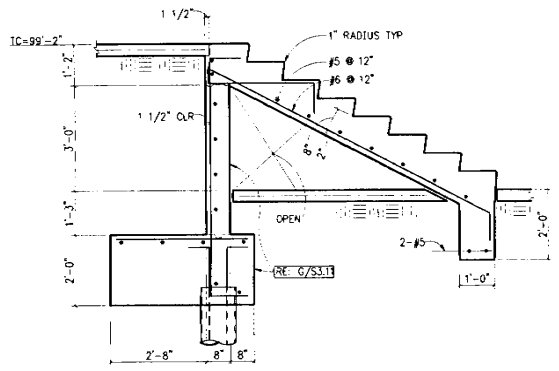
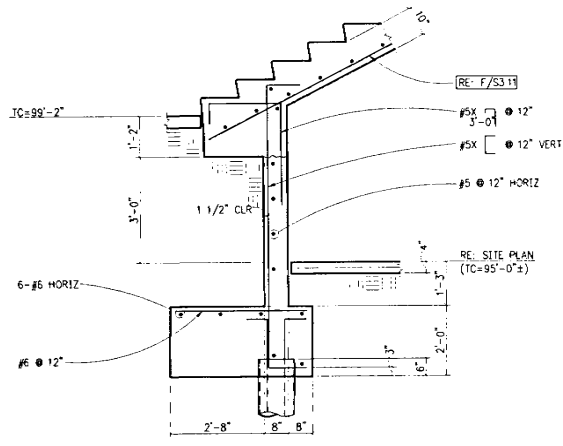


F SOUTH STAIR DETAIL
1/2"=1'-0"



G SOUTH STAIR DETAIL
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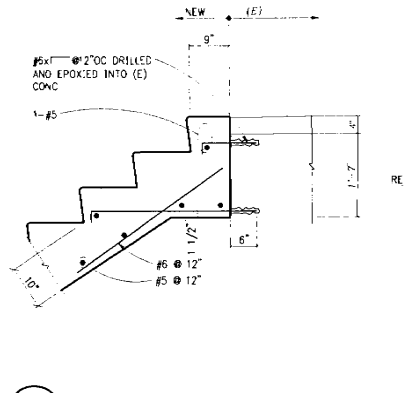

H SOUTH STAIR DTL
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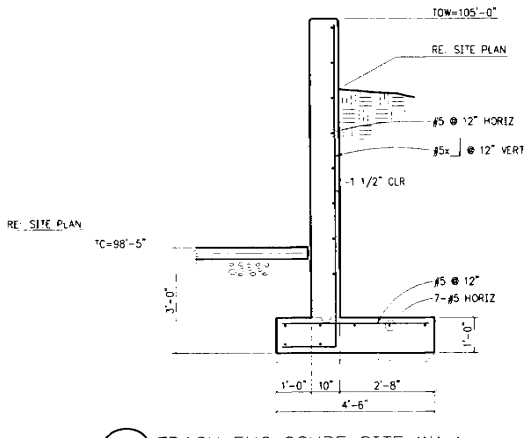

J TRASH ENCLOSURE SITE WALL
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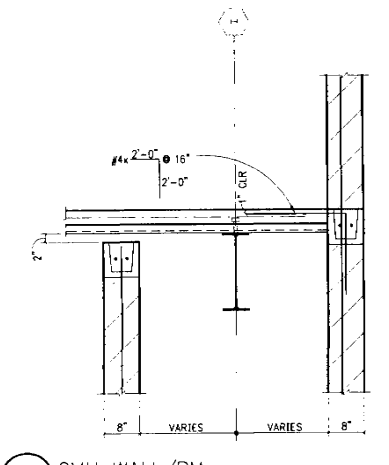
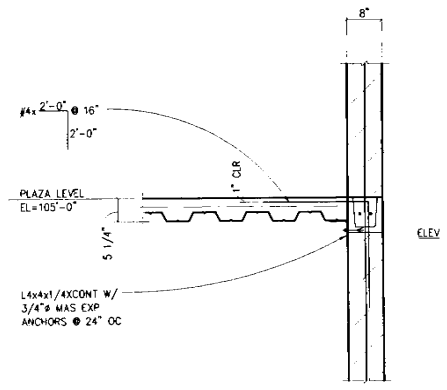
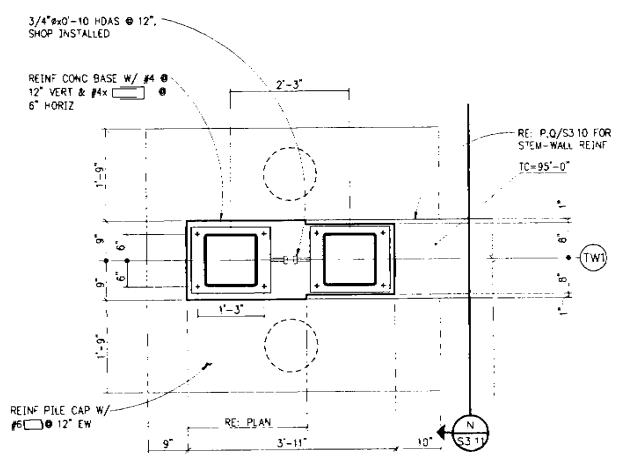


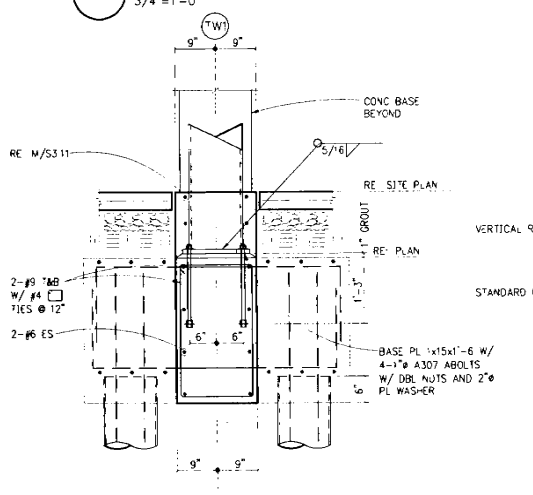
K CMU WALL/BM
3/4"=1'-0"



L CMU WALL/SLAB
3/4"=1'-0"



M SIDE WALL BASE FDN
3/4"=1'-0"



N SIDE WALL BASE FDN
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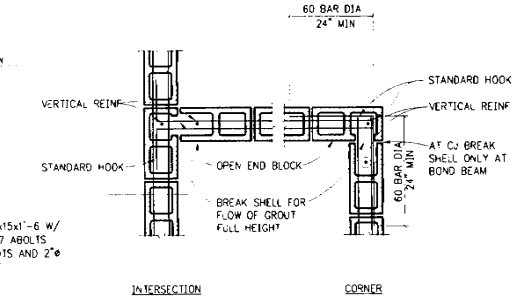
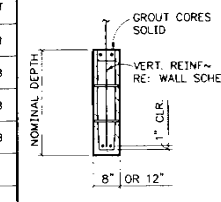


P TYPICAL MASONRY WALL REINFORCING DETAILS
NO SCALE

REINFORCED MAS LINTEL SCHED

TYPE	CLEAR SPAN	NOMINAL DEPTH	REINF.
A	0'-0 TO 4'-0	8"	2 - #4 BOT
A	OVER 4'-0 TO 8'-8	16"	2 - #4 T&B
A	OVER 6'-8 TO 8'-8	16"	2 - #5 T&B
A	OVER 8'-8 TO 10'-8	24"	2 - #5 T&B
A	OVER 10'-8 TO 13'-10	40"	2 - #6 T&B

TYPICAL DETAIL



NOTES:
1. ALL LINTELS TYPE 'A' UNLESS NOTED ON STRUCTURAL DWGS~ RE:ARCH DWGS FOR LOCATION & CLEAR SPAN.
2. LINTELS SHALL SPAN CONT. BETW. BEARINGS EA. SIDE
3. PROVIDE 8" (MIN.) BEARINGS FOR CLR SPAN 8'-0" OR LESS. 16" (MIN.) BEARING FOR CLR SPAN GREATER THAN 8'-0"
4. EXTEND BOT. REINF. TO END OF BEARING EA. SIDE ~ EXTEND TOP REINF., WHERE POSSIBLE, 40 BAR DIA. INTO WALL EA. SIDE ~ TERMINATE TOP REINF. W/ STD. HK AT CONTROL JOINTS OR FREE EDGES.

Q MASONRY LINTEL SCHEDULE (WALLS)
NO SCALE

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CONST DOCS &	2 3/16/01

Two Rivers Convention Center

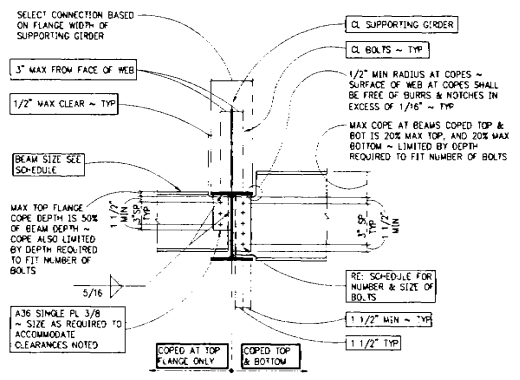
M/M Project No: 14356.S01
SCD Project No: 9924

FOUNDATION AND MASONRY DETAILS

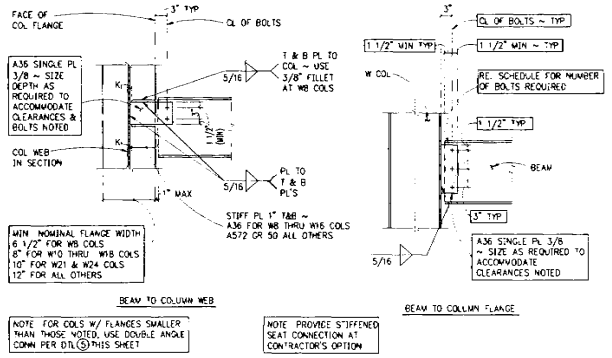
Drawn by: ONE
Checked by: CBH

S3.11

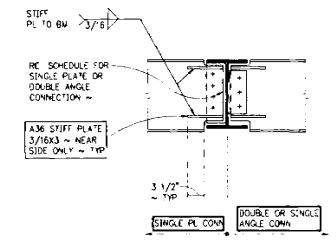
09103781.tif



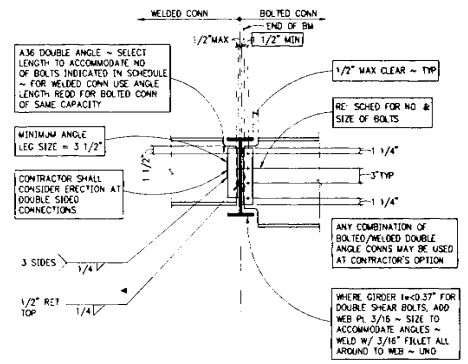
1 BEAM/GIRDER SINGLE PL CONN



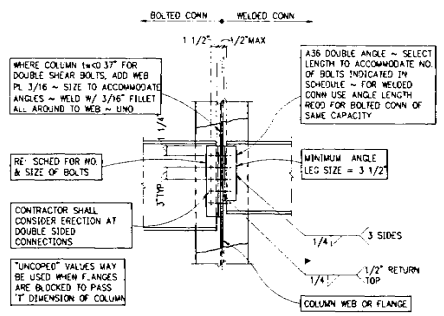
2 SINGLE PL BM/COL CONN



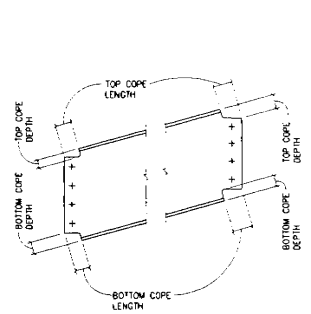
3 REINFORCED BEAM SECTION



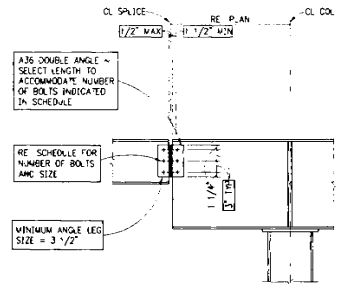
4 BEAM/GIRDER DBL ANGLE CONN



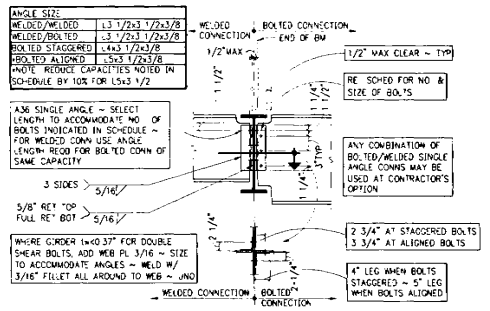
5 DBL ANGLE CONN TO W COL



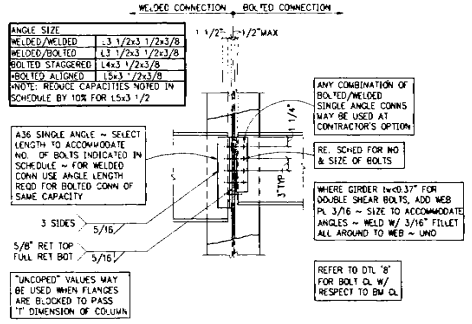
6 SLOPED MEMBER COPE GEOMETRY



7 BEAM TO BEAM CONNECTION



8 BEAM/GIRDER SINGLE ANGLE CONN



9 SINGLE ANGLE CONN TO W COL WEB

STEEL CONNECTION SCHEDULE

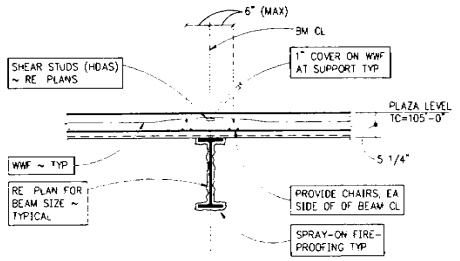
| CONNECTION CONDITION / GEOMETRY | SINGLE PLATE/SINGLE ANGLE/SKEWED CONNECTION - MAX REACTION (KIPS) | | |

METAL DECK SCHEDULE

DECK MARK	MAXIMUM CLEAR SPAN (FT)	DECK DEPTH (IN)	CONCRETE SLAB: DEPTH ABOVE DECK (IN)	CONCRETE SLAB: MAXIMUM WET UNIT WEIGHT (PCF)	CONCRETE SLAB: WWF REINF	MINIMUM STEEL SECTION PROPERTIES (PER FOOT WIDTH): 3-SPAN CONDITION I (IN^4)	3-SPAN CONDITION S(POS) (IN^3)	3-SPAN CONDITION S(NEG) (IN^3)	2-SPAN CONDITION I (IN^4)	2-SPAN CONDITION S(POS) (IN^3)	2-SPAN CONDITION S(NEG) (IN^3)	1-SPAN CONDITION I (IN^4)	1-SPAN CONDITION S(POS) (IN^3)	1-SPAN CONDITION S(NEG) (IN^3)	REMARKS
D1	9'-8"	2	3.25	118	6x6 W2.9xW2.9	0.557	0.512	0.518	0.557	0.512	0.518	0.557	0.512	---	
D2	3'-0"	2	3.25	118	6x6 W2.9xW2.9	0.418	0.355	0.360	0.418	0.355	0.360	0.418	0.355	---	
D3	5'-8"	1.5	---	---	---	0.212	0.234	0.247	0.212	0.234	0.247	---	---	---	TYPE 'B' ROOF DECK

NOTES:
1. DECK YIELD STRESS VARIES, RE: GENERAL NOTES.
2. RE: SPECIFICATIONS FOR DECK FINISHES.
3. ALL DECK SCHEDULED SHALL BE COMPOSITE DECK, U.N.O.
4. COMPOSITE DECK IS SIZED BASED UPON THE FOLLOWING MAXIMUM CONDITIONS:
   a. WET WEIGHT OF CONCRETE = 118 P.S.F. LIGHT WEIGHT AND 145 P.S.F. STONE.
   b. DECK DEFLECTION = 3/4".
   c. SLAB THICKNESS INCREASED BY 1/2" FOR LEVELING.
5. DECK WITH HIGHER YIELD STRESS MAY BE USED WITH SP & SN REQUIRED VALUES ADJUSTED BY THE RATIO OF Fy(REQD)/Fy(PROVIDED).

A METAL DECK SCHEDULE
NO SCALE



B TYPICAL COMPOSITE BEAM
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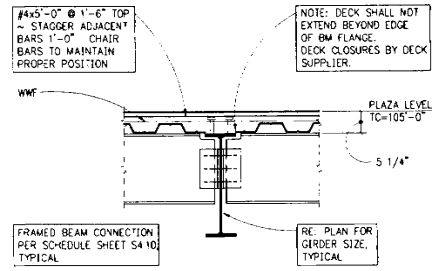
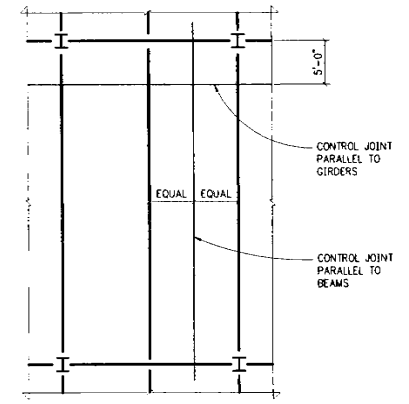
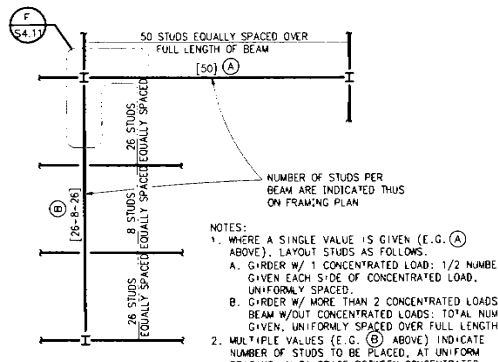


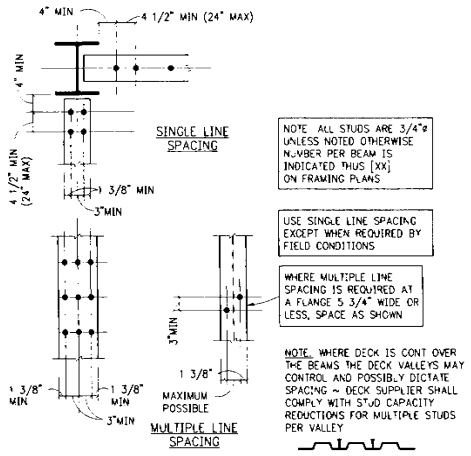
C TYPICAL COMPOSITE GIRDER
NO SCALE



D SUGGESTED SLAB CONTROL JOINTS LOCATIONS
NO SCALE

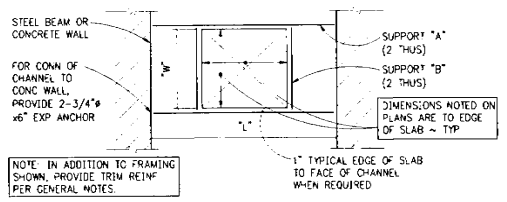


E TYP SHEAR STUD LAYOUT
NO SCALE



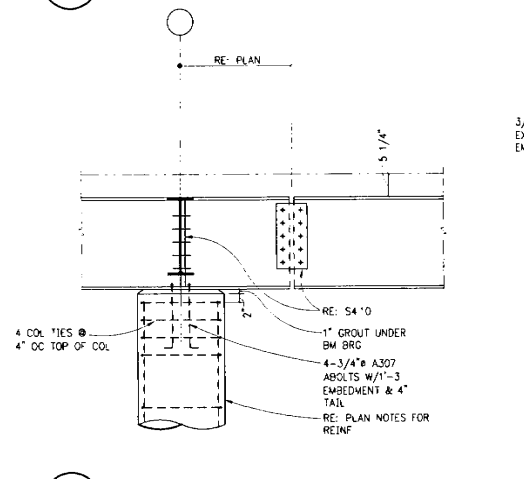
F SHEAR STUD SPACING DETAILS
NO SCALE

OPENING SUPPORT SCHEDULE			
DIST "W"	SUPPORT "A"	SUPPORT "B"	REMARKS
LESS THAN 1'-0"	2-#6 T AND B IN SLAB	2-#5 T AND B IN SLAB	EXTEND SUPPORT BOTTOM BARS 2'-0" PAST OPENING EACH SIDE
1'-0" TO 2'-6"	C4x5.4 BELOW SLAB	C4x5.4 BELOW SLAB	
GREATER THAN 2'-6" TO 5'-0"	C5x6.7 BELOW SLAB	C5x6.7 BELOW SLAB	

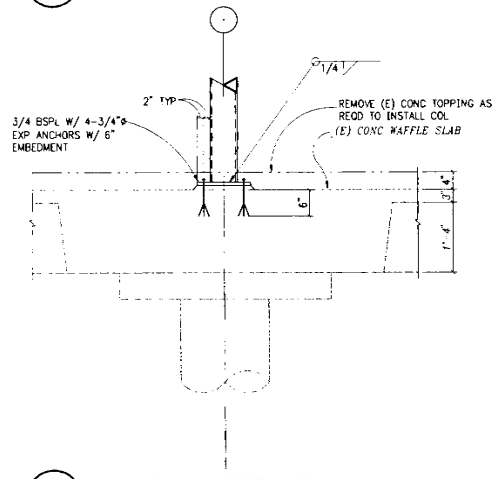


NOTES:
1. PROVIDE SUPPORT MEMBERS AS SHOWN FOR ALL OPENINGS IN 5 1/4" LIGHTWEIGHT COMPOSITE CONCRETE/STEEL DECK SLABS NOT OTHERWISE DETAILED ON STRUCTURAL DRAWINGS.
2. FOR OTHER CONDITION, OR FOR "L" GREATER THAN 10'-0" CONTACT STRUCTURAL ENGINEER FOR REQUIRED SUPPORT DETAILS.

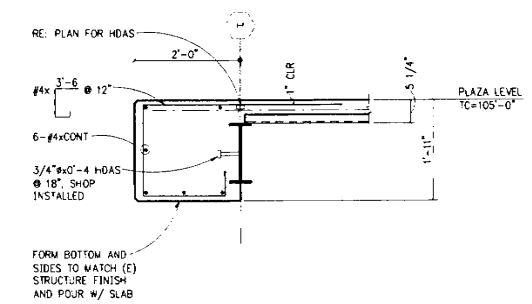
G SLAB OPENING REINFORCING ("L" ≤ 10'-0")
NO SCALE



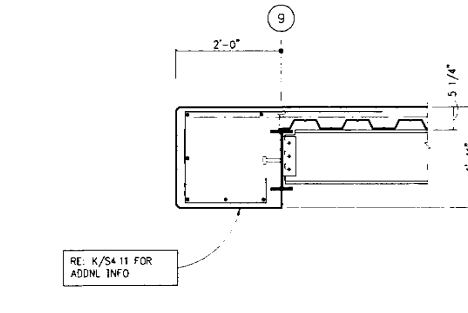
H TYPICAL BEAM SPLICE
3/4"=1'-0"



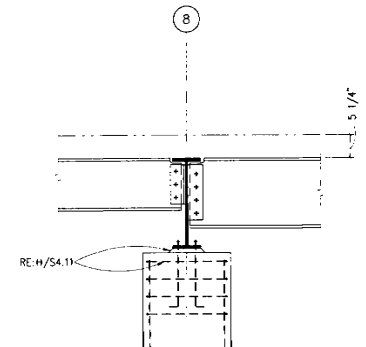
J NEW COLUMN BSPL CONN
3/4"=1'-0"



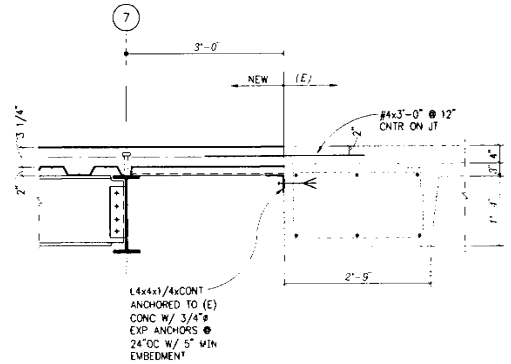
K SLAB EDGE DETAIL
3/4"=1'-0"



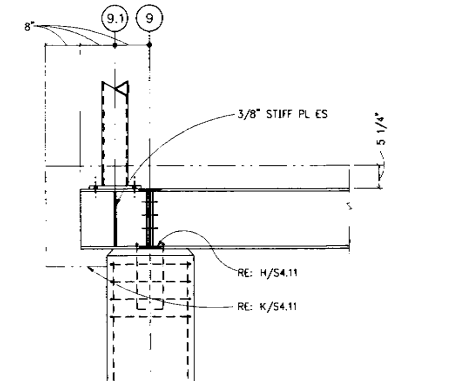
L SLAB EDGE DETAIL
3/4"=1'-0"



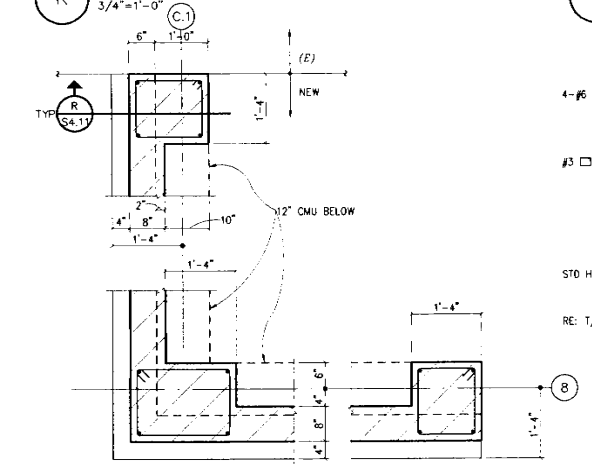
M BEAM/ COL CONN
3/4"=1'-0"



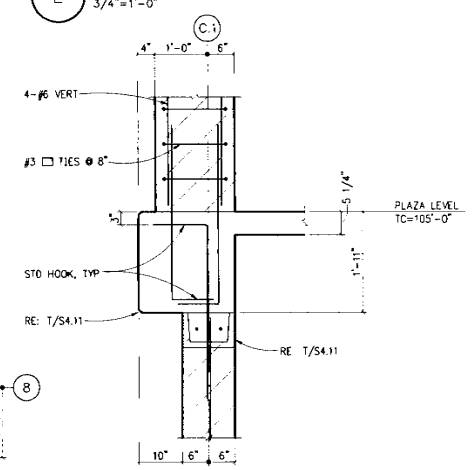
N CONNECTION TO (E) BLDG
3/4"=1'-0"



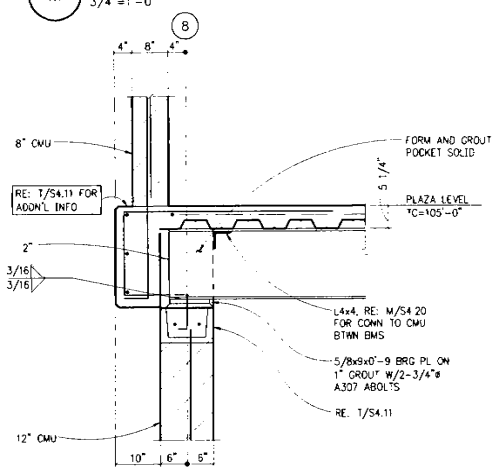
P EDGE COLUMN CONN
3/4"=1'-0"



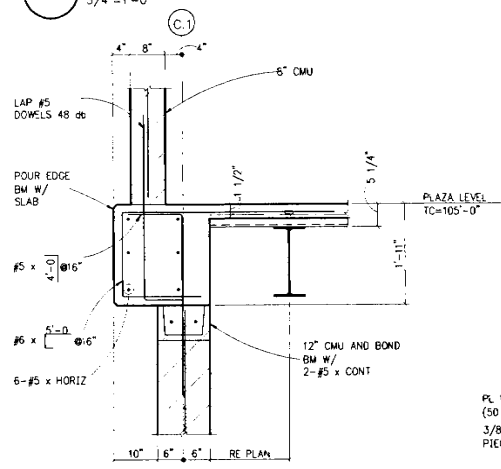
Q CMU PILASTER DTL'S
3/4"=1'-0"



R TYP CMU PILASTER SECTION
3/4"=1'-0"



S SLAB EDGE DTL
3/4"=1'-0"



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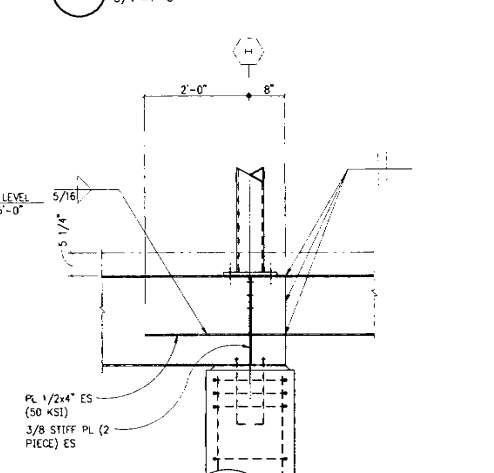

U NOTCHED BM
3/4"=1'-0"

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Issues/Revisions:	Date:
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DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & 1	2/16/01
CONST DOCS & 2	3/16/01

Two Rivers Convention Center

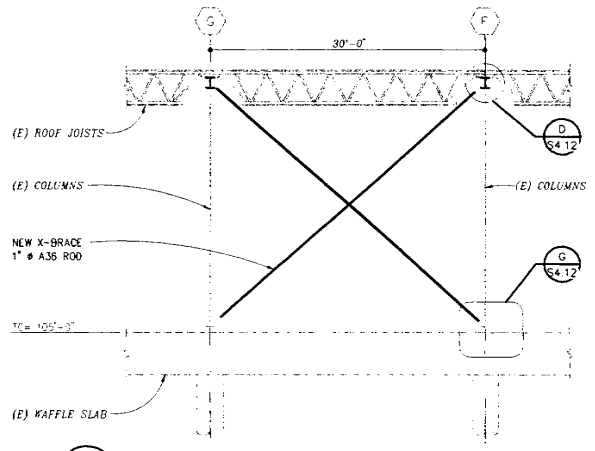
M/M Project No 14386.S01
SCD Project No 9924

FRAMING DETAILS

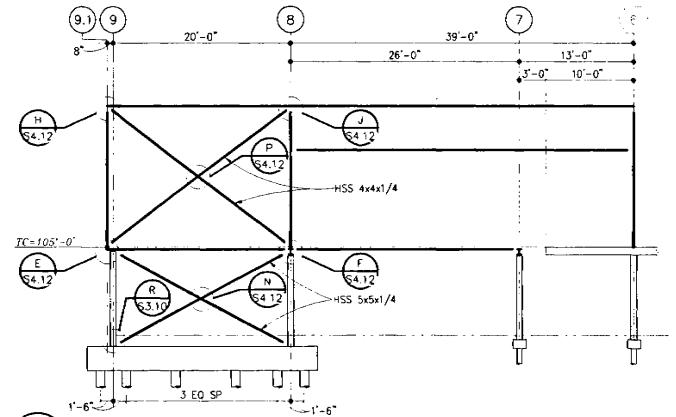
Drawn by DNE
Checked by CBM

S4.11

09103783.tif



A X-BRACE ON GRID-5
NO SCALE



B BRACED FRAME ON GRID-H
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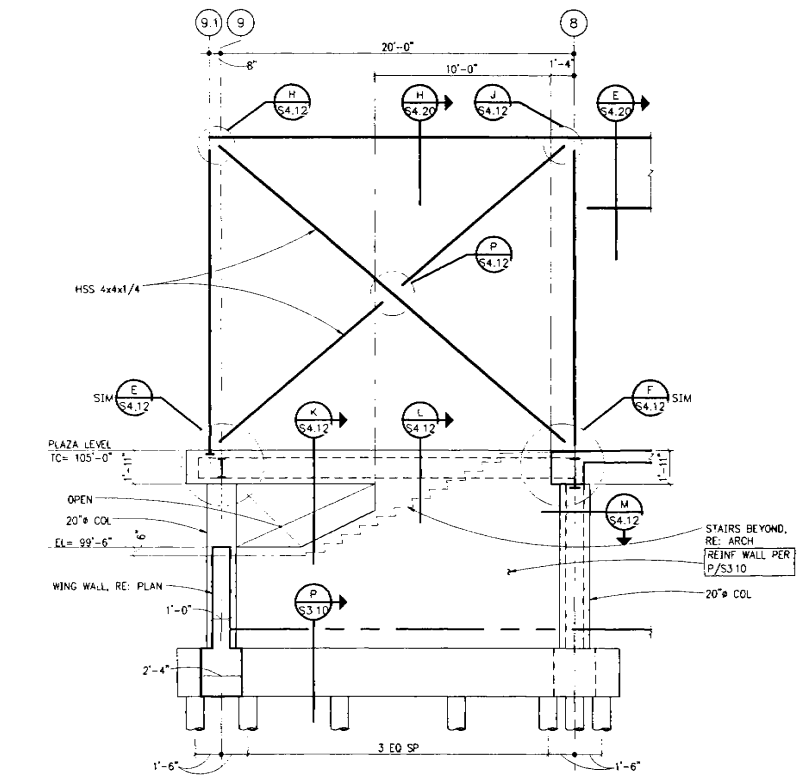
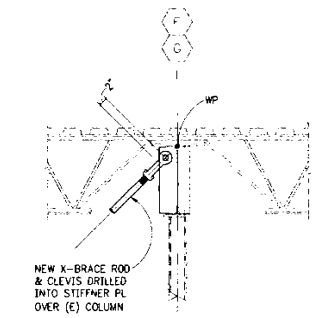
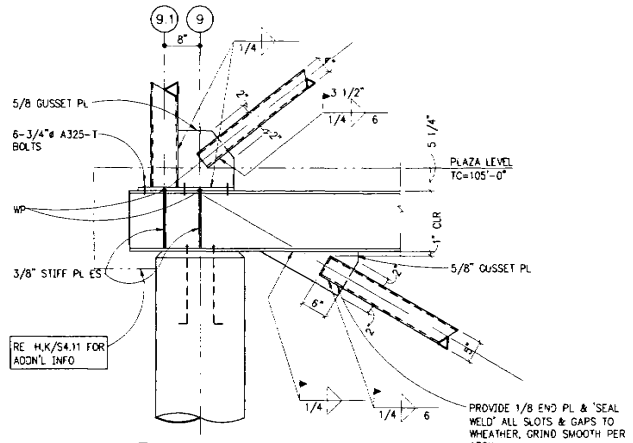


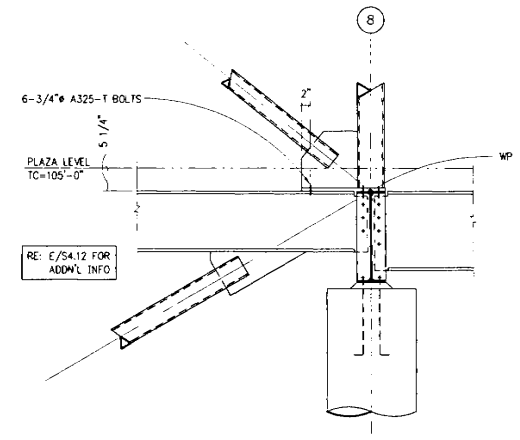
C SHEARWALL ELEVATION ON GRID - E
1/4"=1'-0"



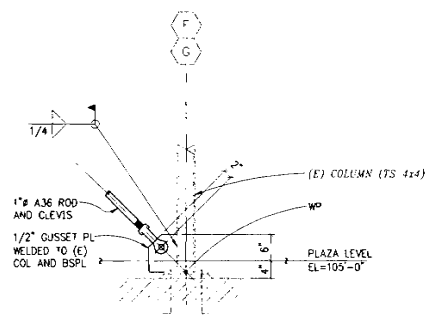
D X-BRACE DTL
3/4"=1'-0"



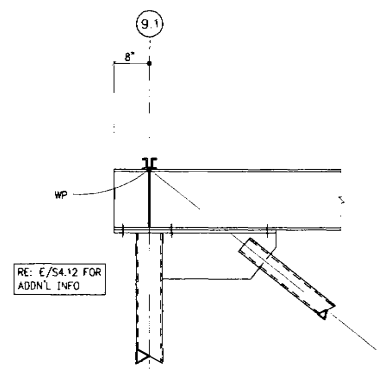
E X-BRACE DTL
3/4"=1'-0"



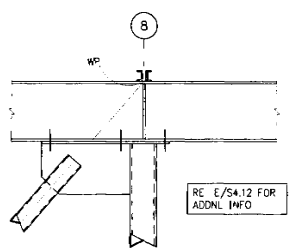
F X-BRACE DTL
3/4"=1'-0"



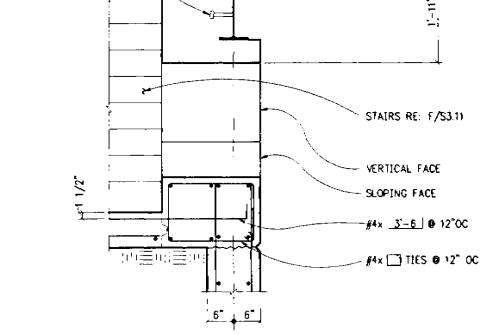
G X-BRACE DTL
3/4"=1'-0"



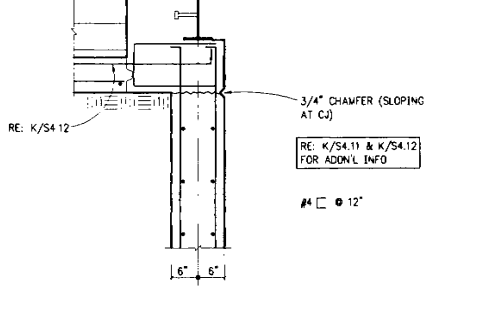
H X-BRACE DTL
3/4"=1'-0"



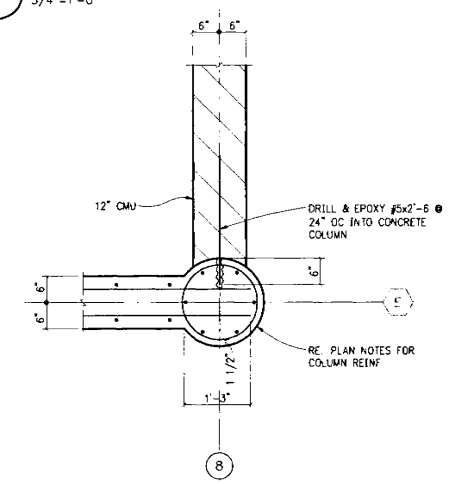
J X-BRACE DTL
3/4"=1'-0



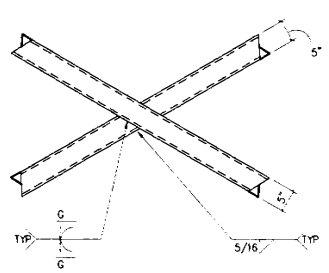
K SOUTH STAIR DTL
3/4"=1'-0



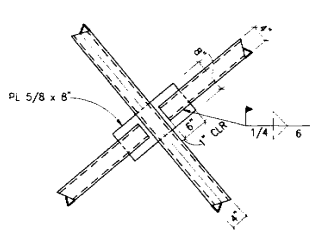
L SOUTH STAIR DTL
3/4"=1'-0



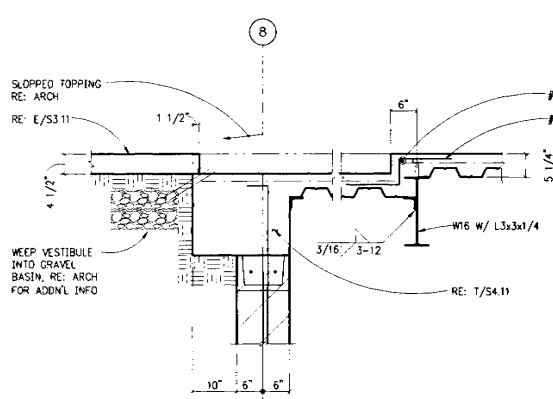
M COLUMN/WALL DTL
3/4"=1'-0



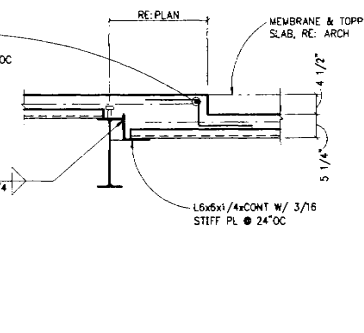
N EXPOSED X-BRACE DETAIL
3/4"=1'-0



P CONCEALED X-BRACE DTL
3/4"=1'-0



Q ENTRY THRESHOLD DTL
3/4"=1'-0



R ENTRY VESTIBULE
3/4"=1'-0

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Two Rivers Convention Center

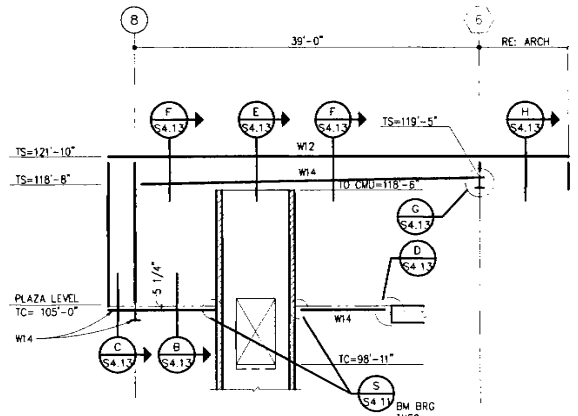
M/M Project No. 14386.S.01
SCD Project No. 9924

FRAMING DETAILS

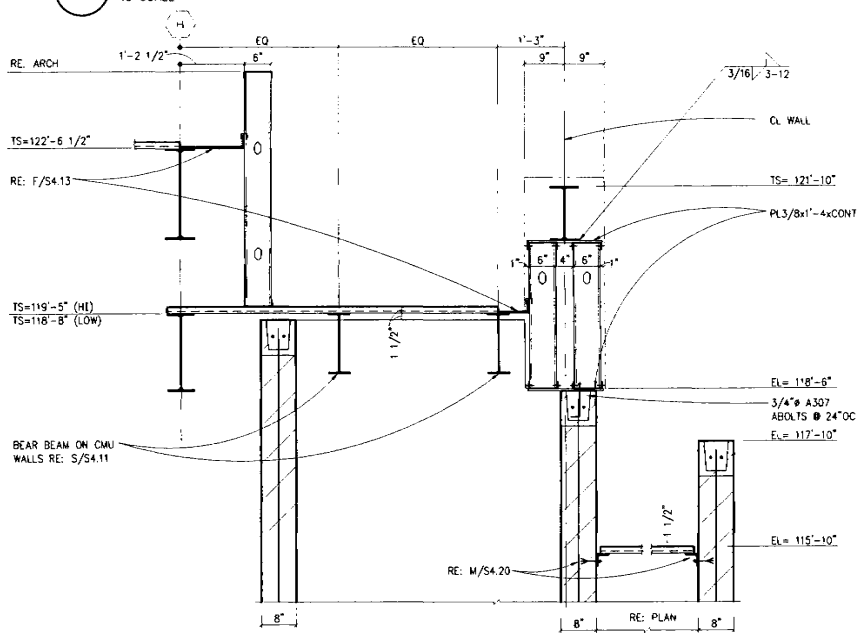
Drawn by: DNE
Checked by: CBN

S4.12

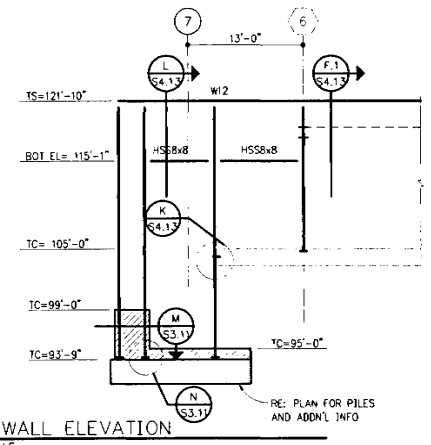
09103784.tif



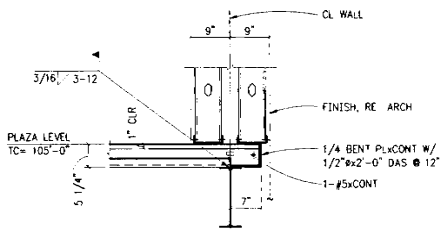
A SIDEWALL ELEVATION
NO SCALE



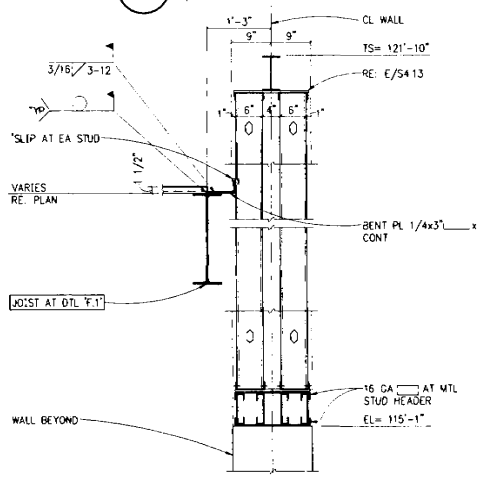
E ELEVATOR SECTION
3/4"=1'-0"



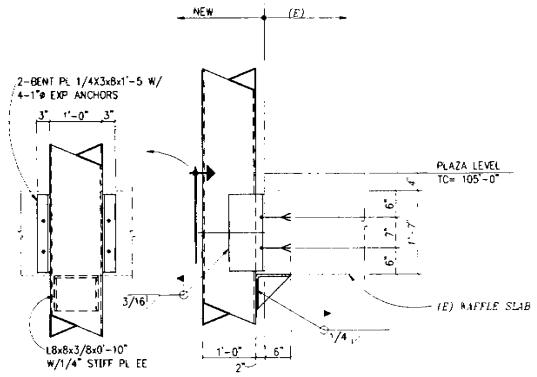
J SIDEWALL ELEVATION
NO SCALE



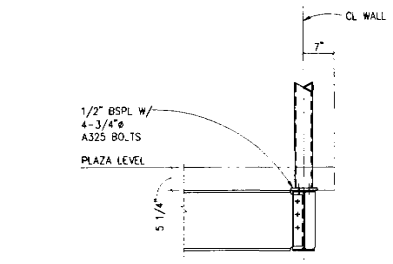
B SLAB EDGE DTL
3/4"=1'-0"



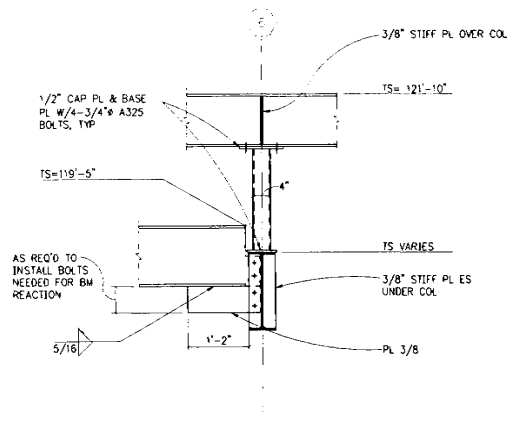
F F.1 ROOF EDGE DTL
3/4"=1'-0"



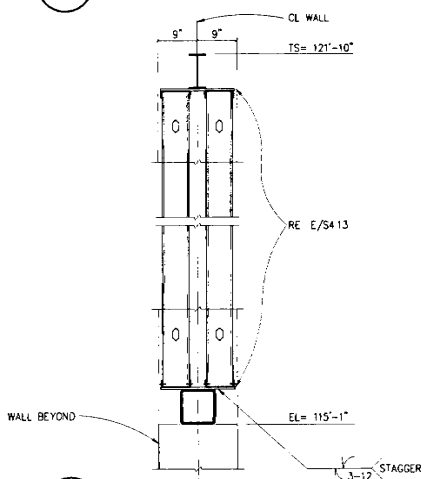
K SIDEWALL COLUMN CONN
3/4"=1'-0"



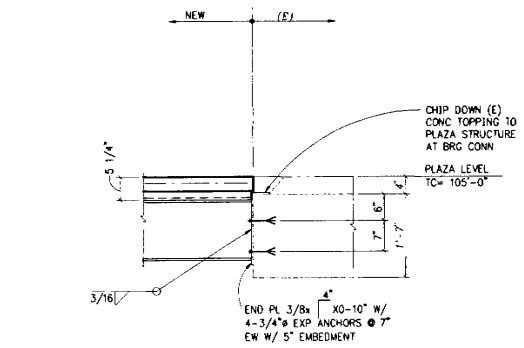
C SLAB EDGE/COLUMN DTL
3/4"=1'-0"



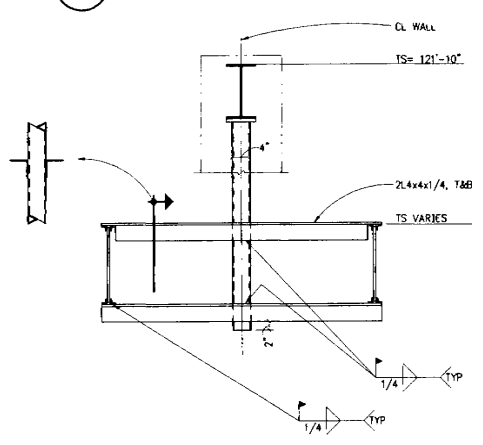
G WALL SUPPORT CONN
3/4"=1'-0"



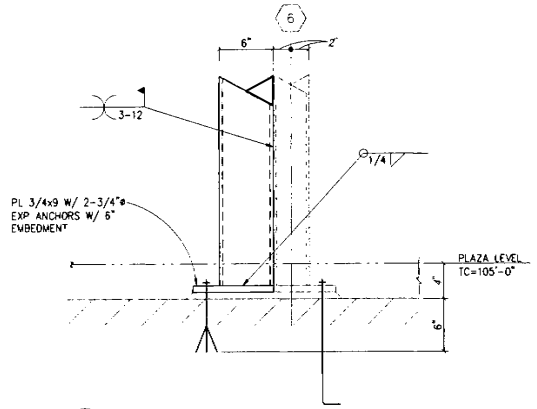
L SIDEWALL LINTEL
3/4"=1'-0"



D CONNECTION TO (E) BLDG
3/4"=1'-0"



H WALL SUPPORT CONN
3/4"=1'-0"



M COLUMN BASE PL DTL
1 1/2"=1'-0"

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Two Rivers Convention Center

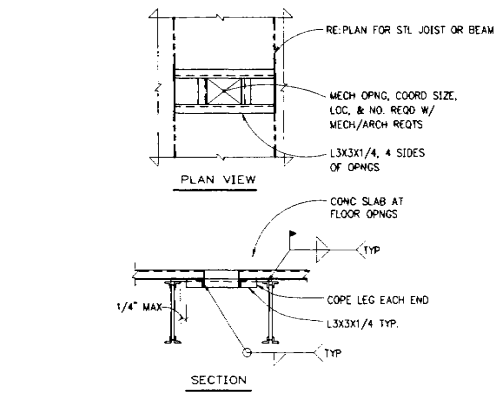
M/M Project No. 4386.5.01
SCD Project No. 9924

FRAMING DETAILS

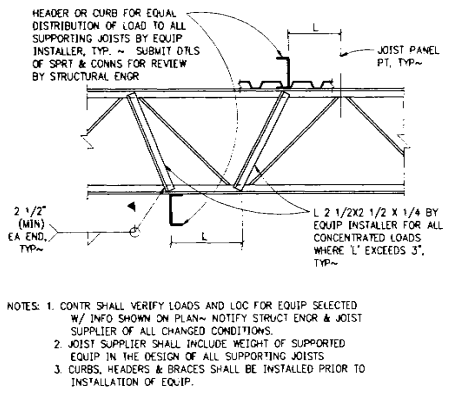
Drawn by: DNE
Checked by: CBN

S4.13

09103785.tif

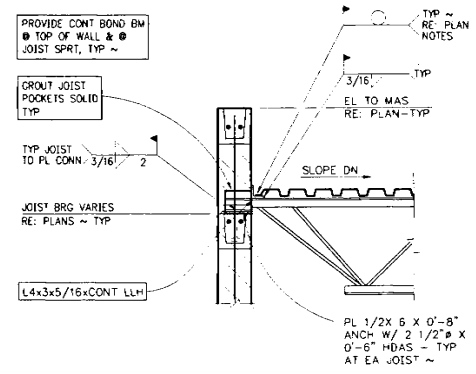


A TYP OPNG FRAMING DTL
NO SCALE

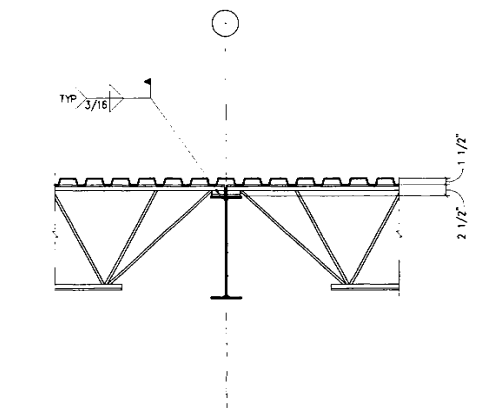


NOTES: 1. CONTR SHALL VERIFY LOADS AND LOC FOR EQUIP SELECTED W/ INFO SHOWN ON PLAN~ NOTIFY STRUCT ENGR & JOIST SUPPLIER OF ALL CHANGED CONDITIONS.
2. JOIST SUPPLIER SHALL INCLUDE WEIGHT OF SUPPORTED EQUIP IN THE DESIGN OF ALL SUPPORTING JOISTS.
3. CURBS, HEADERS & BRACES SHALL BE INSTALLED PRIOR TO INSTALLATION OF EQUIP.

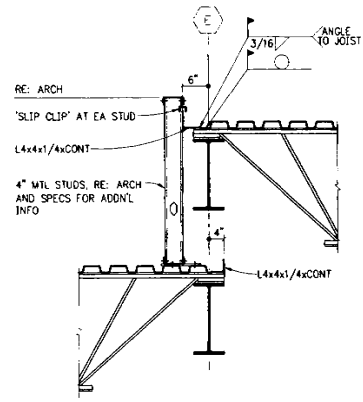
B TYP EQUIP SUPPORT DTL
NO SCALE



C TYP JOIST BRG AT MAS BRG WALL
NO SCALE



D TYPICAL ROOF GIRDER
3/4"=1'-0"



E ROOF STEP DTL
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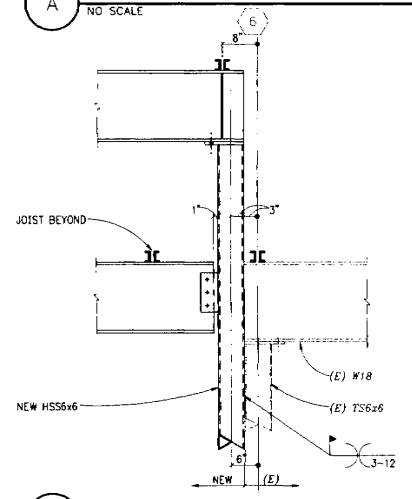
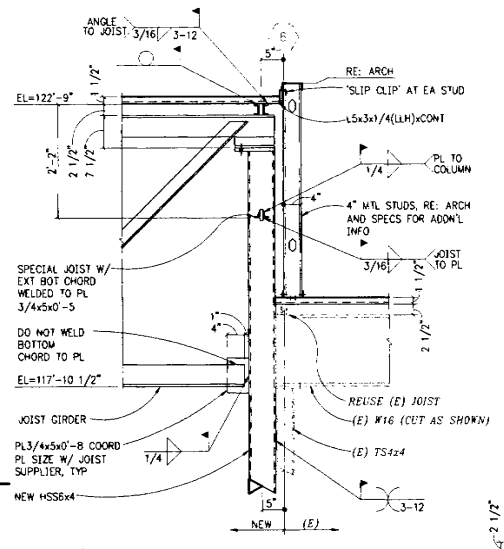
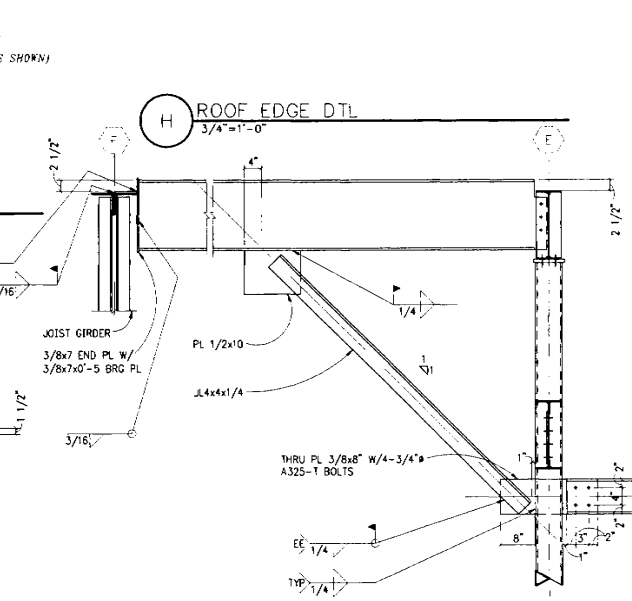


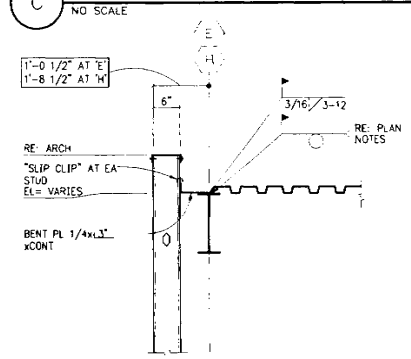
F COLUMN DTL
3/4"=1'-0"

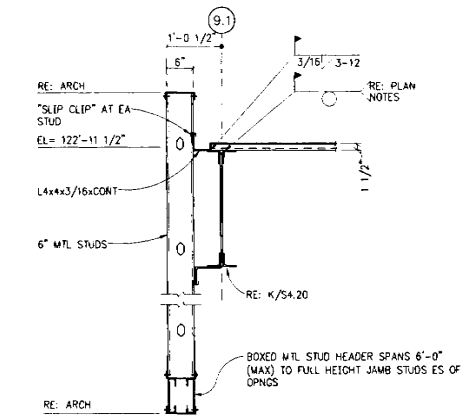


G JOIST GIRDER SUPPORT
3/4"=1'-0"

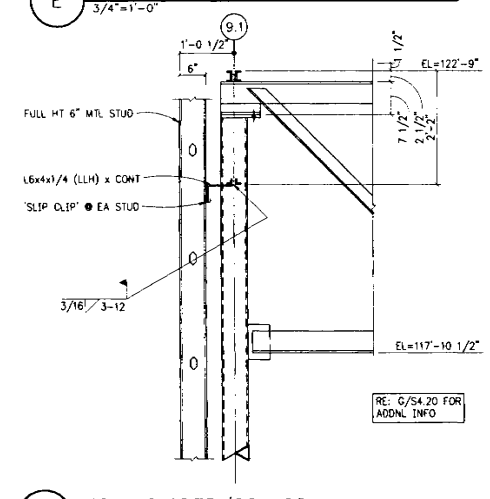


H ROOF EDGE DTL
3/4"=1'-0"

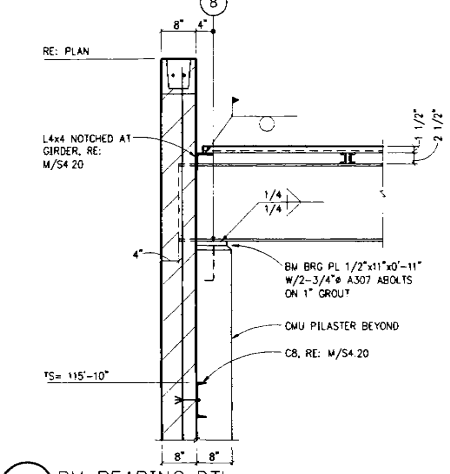




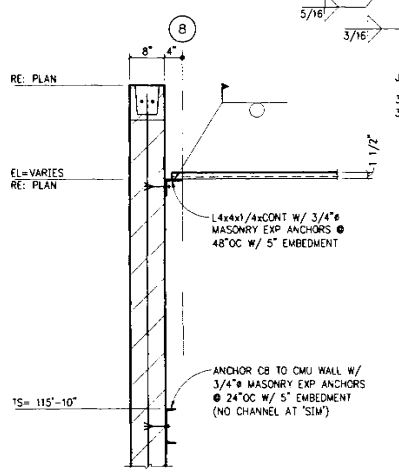
J ROOF EDGE DTL
3/4"=1'-0"



K JOIST GIRDER/COL CONN
3/4"=1'-0"

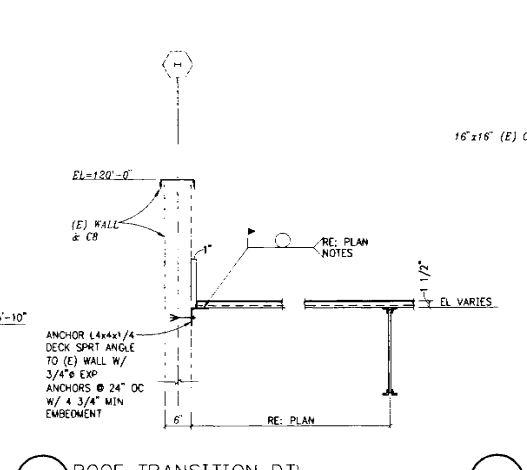


L BM BEARING DTL
3/4"=1'-0"

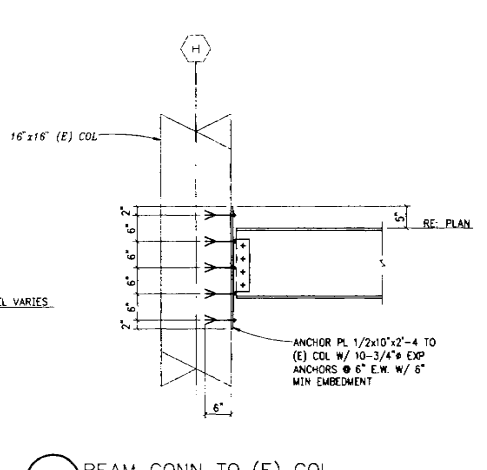


M SHEARWALL /DRAG CONN
3/4"=1'-0"

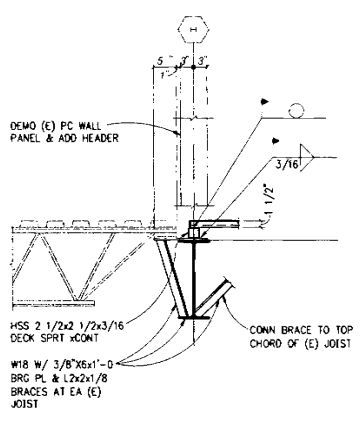
N STRUT/BRACE DTL
3/4"=1'-0"



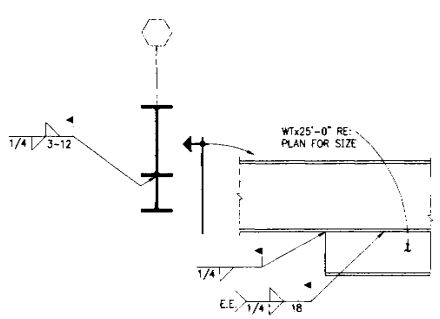
P ROOF TRANSITION DTL
3/4"=1'-0"



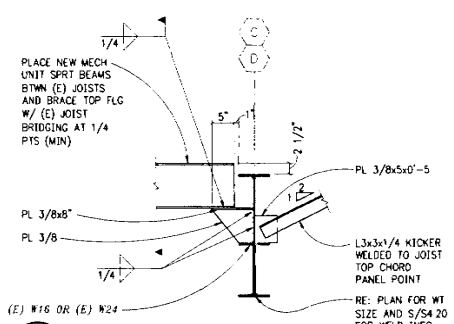
Q BEAM CONN TO (E) COL
3/4"=1'-0"



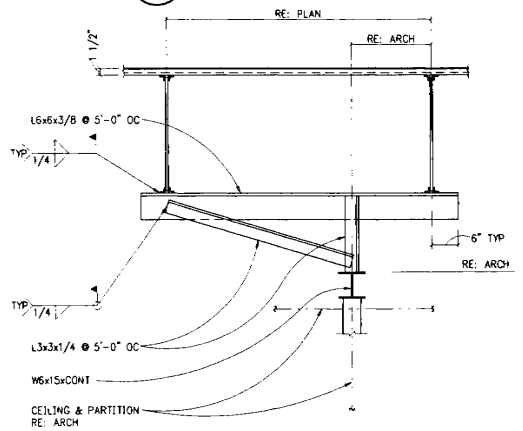
R ROOF TRANSITION DTL
3/4"=1'-0"



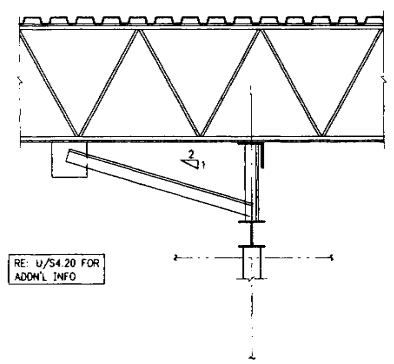
S WT DTL
3/4"=1'-0"



T MECH UNIT SPRT BM CONN
3/4"=1'-0"



U FOLDING PARTITION WALL SUPPORT
3/4"=1'-0"



V FOLDING PARTITION WALL SUPPORT
3/4"=1'-0"

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SINK COMBS DETHLEFS
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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & 1	2/16/01
CONST DOCS & 2	3/16/01

Two Rivers Convention Center

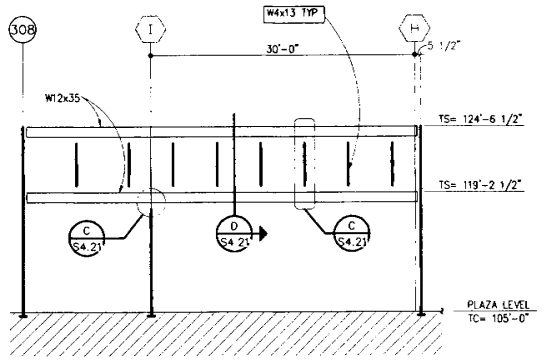
M/M Project No 14386.S01
SCD Project No 9924

ROOF DETAILS

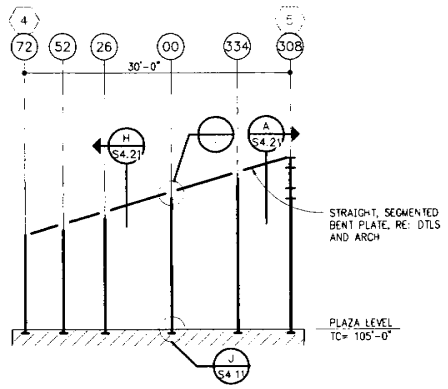
Drawn by: DNE
Checked by: CBN

S4.20

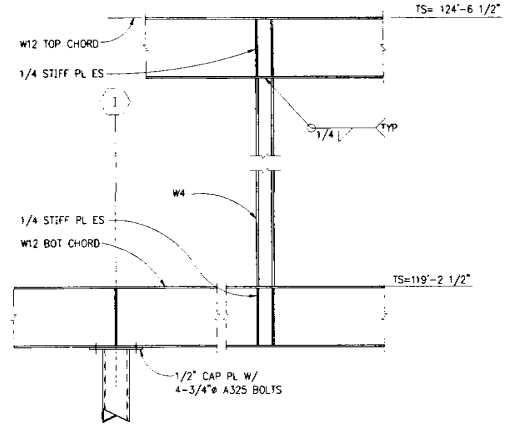
09103786.tif



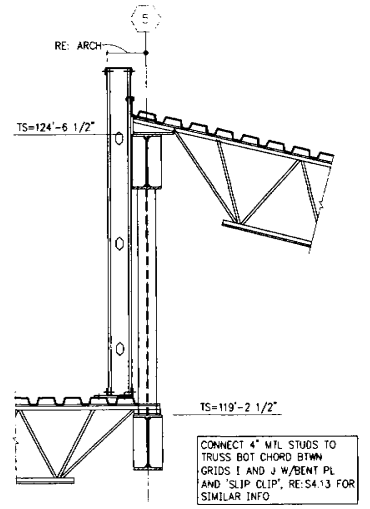
A LOBBY TRUSS ELEVATION
NO SCALE



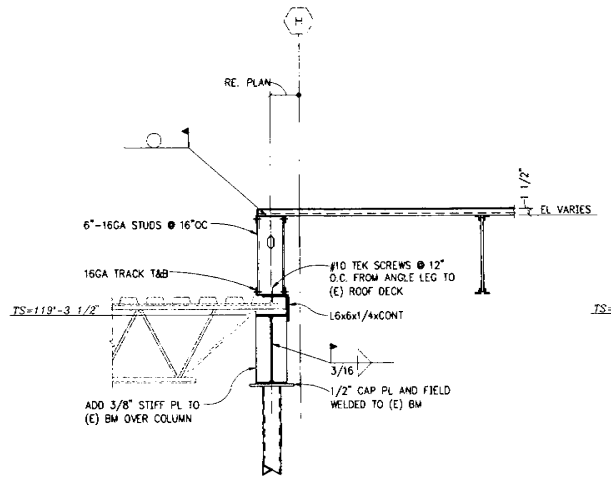
B CURVED LOBBY WALL ELEVATION
NO SCALE



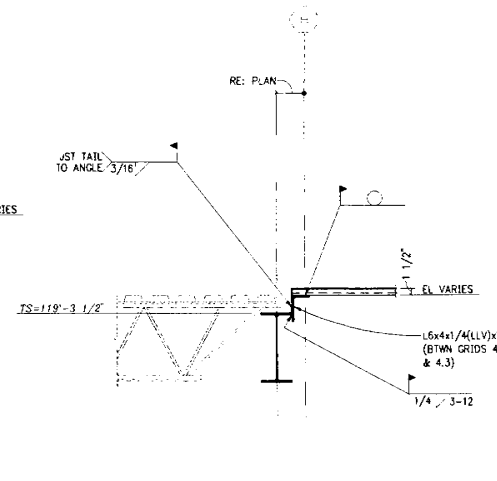
C TRUSS DTL'S
3/4"=1'-0"



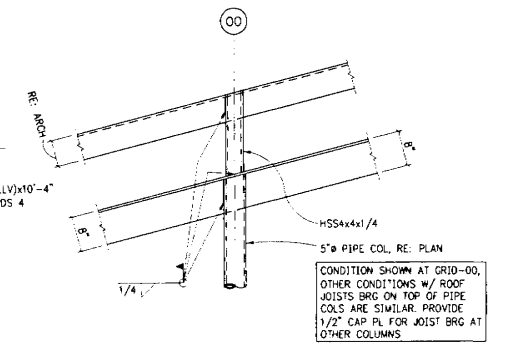
D TRUSS SECTION
3/4"=1'-0"



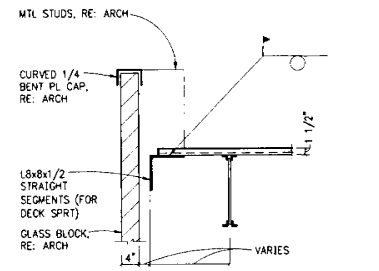
E ROOF TRANSITION DTL
3/4"=1'-0"



F ROOF TRANSITION DTL
3/4"=1'-0"



G LOBBY ROOF EDGE
3/4"=1'-0"



H LOBBY ROOF EDGE
3/4"=1'-0"

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SINK COMBS DETHLEFS

A Professional Corporation for Architecture
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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
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PROGRESS DWGS & 1	2/16/01
CONST DOCS & 2	3/16/01

Two Rivers Convention Center

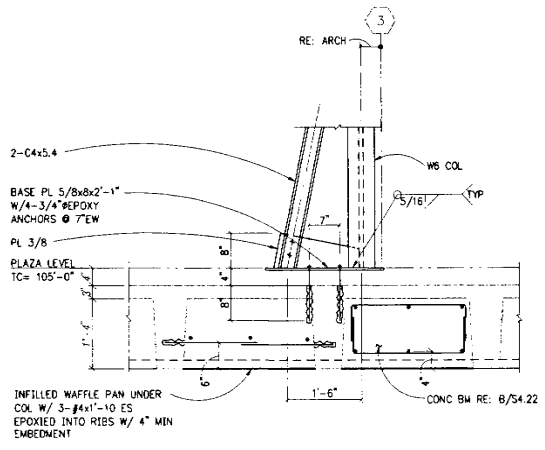
M/M Project No 14386.S.01
SCD Project No.: 9924

ROOF DETAILS

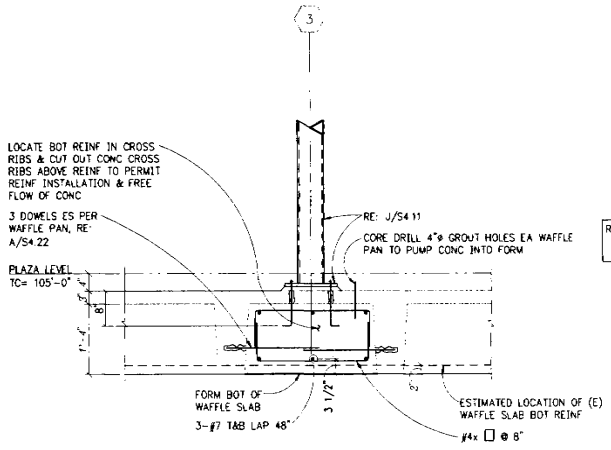
Drawn by: DNE
Checked by: CBN

S4.21

09103787.tif



A K-BRACE BASE DTL
3/4"=1'-0"



B WAFFLE SLAB STRENGTHENING
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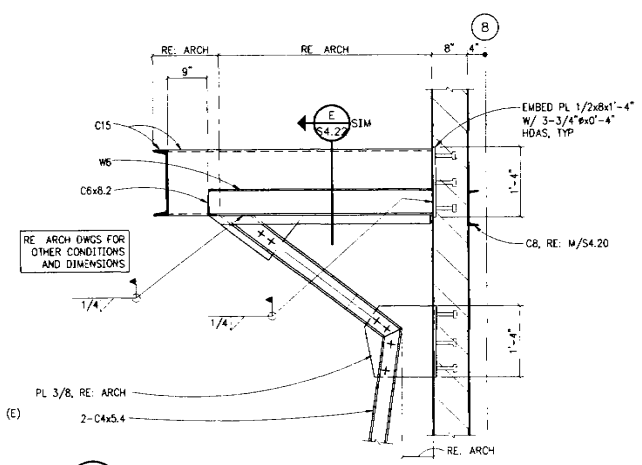
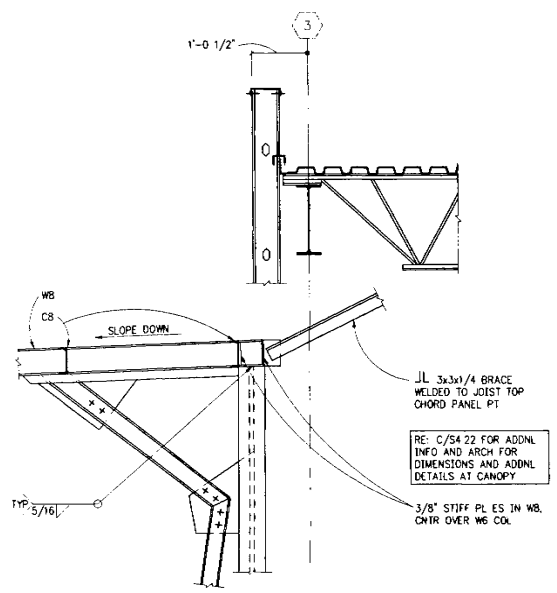
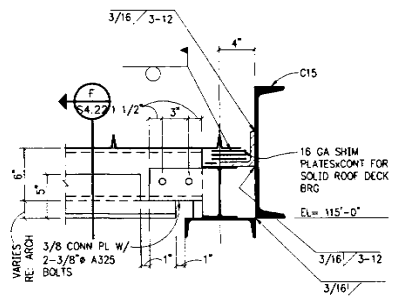


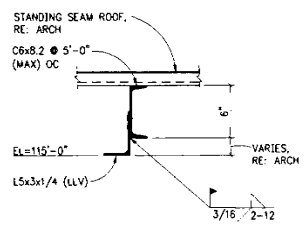
C SOUTH EXIT CANOPY
3/4"=1'-0"



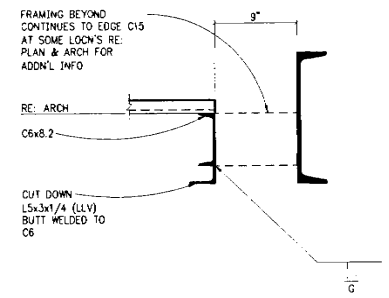
D NORTH CANOPY DETAIL
3/4"=1'-0"



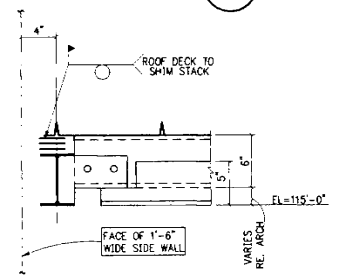
E NORTH CANOPY EDGE DTL
1 1/2"=1'-0"



F NORTH CANOPY DTL
1 1/2"=1'-0"



G NORTH CANOPY DTL
1 1/2"=1'-0"



H NORTH CANOPY DTL
1 1/2"=1'-0"

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SINK COMBS DETHLEFS
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Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & ⚠1	2/16/01
CONST DOCS & ⚠2	3/16/01

Two Rivers Convention Center

M/M Project No 14386.S.01
SCD Project No 9824

ROOF DETAILS

Drawn by: DNE
Checked by: CBN

S4.22

09103788.tif

MAIN ST.

FIRST ST.

SECOND ST.

COLORADO AVE.

LINES INDICATE CONTRACT AREA

NOTES:

ITEMS IN CONTRACT AREA TO BE REMOVED BY OTHERS:

1. ALL TREES & SHRUBS
2. PARKING METERS
3. SIGNAGE LIGHTS
4. POWER POLES
5. POOL EQUIPMENT & ACCESSORIES

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JUN 28 1991
PLANNING & ZONING DEPT.

09105001.TIF

VAN DEUSEN & PORTER ARCHITECTS & PLANNERS
Grand Junction, Colorado

REVISIONS

STATE OF COLORADO
REGISTERED ARCHITECT

MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

project no.
drawn by:

sheet
DEMOLITION
PLAN

no.
A1

MULTI-PURPOSE BUILDING

GRAND JUNCTION

COLORADO

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ARCHITECTS / PLANNERS
Grand Junction, Colorado

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COLORADO AVENUE

MAIN STREET

FIRST STREET

SECOND ST

ENTRY PLAZA

SECTION E

SECTION J

SECTION K

SECTION L

SECTION M

SECTION N

SECTION P

SECTION Q

SECTION R

SECTION S

SECTION T

SECTION U

SECTION V

SECTION W

SECTION X

SECTION Y

SECTION Z

SECTION AA

SECTION BB

SECTION CC

SECTION DD

SECTION EE

SECTION FF

SECTION GG

SECTION HH

SECTION II

SECTION JJ

SECTION KK

SECTION LL

SECTION MM

SECTION NN

SECTION OO

SECTION PP

SECTION QQ

SECTION RR

SECTION SS

SECTION TT

SECTION UU

SECTION VV

SECTION WW

SECTION XX

SECTION YY

SECTION ZZ

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ARCHITEC
/ PLANNI

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MULTI-PURPOSE BUILDING
GRAND JUNCTION

project no.
drawn by:

sheet title:
PARKING LEVEL 1 PLAN

sheet no.
A3

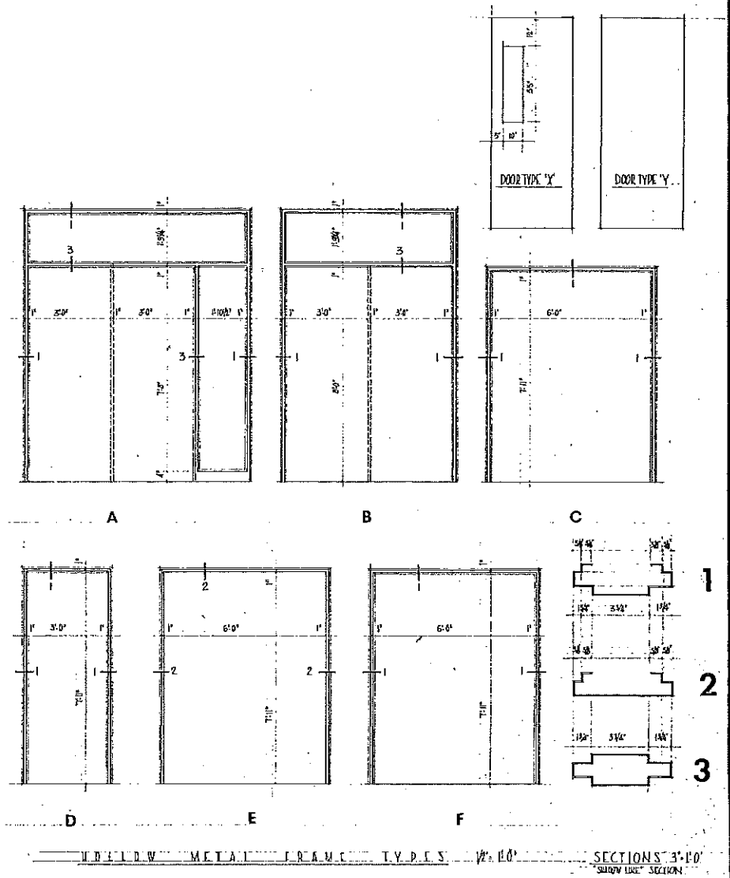
09105903.TIF

ROOM FINISH SCHEDULE

NO.	NAME	FLOOR: COLORED CONCRETE	FLOOR: CONCRETE	FLOOR: CERAMIC TILE	FLOOR: V.A. TILE	FLOOR: CARPET BY OWNER	FLOOR:	BASE: VINYL	BASE: CERAMIC TILE	BASE:	BASE:	CEILING: ACOUSTIC GRID 1	CEILING: GYPSUM WALLBOARD	CEILING: ACOUSTIC GRID 2	CEILING: ACOUSTIC GRID 3	CEILING: CONCRETE WAFFLE SLAB	CEILING: STEEL DECKING	SIDEWALLS: CONCRETE	SIDEWALLS: GYPSUM WALLBOARD	SIDEWALLS: VINYL ON GYP. BD.	SIDEWALLS: CERAMIC TILE	SIDEWALLS: WINDOW WALL	SIDEWALLS: OPEN	SIDEWALLS: STEEL GUARDRAIL	SIDEWALLS:	REMARKS
1	EXHIBIT	○						○				○		○												* ACOUSTIC GRID 2 IN 15'0" CEILING AREAS
2	CONCOURSE			○		○		○					⑧	○												* ACOUSTIC GRID 2 IN 10'0" CEILING AREA * CERAMIC FL'S 15'0" FL UNDER DF'S ONLY # GYP BD WALLS ABOVE 8'0"
3	PANTRY	○						○					⑥													
4	STORAGE		○					○					⑦													
5	FIRST AID				○			○					⑤													
6	JANITOR				○			○					⑤													
7	VESTIBULE			○				○	○				⑨													
8	DRESSING				○			○					⑤													
9	WOMEN			○					○				⑨													
10	MEN			○					○				⑨													
11	DRESSING				○			○					⑧													
12	VESTIBULE			○				○	○				⑤													
13	MEETING					○		○				⑩											○			
14	EQUIPMENT				○			○					⑦													
15	OFFICE					○		○					⑧													
16	PLAZA		○												○		○							○		* ACOUSTIC GRID 3 (CERAMIC/WOOD) UNDER BIG ROOF (35'0") UNDER ENTRANCE SOFFITS & SOUTH DECK (45'0") W PAINTED STEEL DECKING UNDER CANOPY ONLY
17	PARKING		○													○										
18	MECHANICAL		○					○					⑫													
19																										
20																										

OPENING SCHEDULE

NO.	SIZE	MATERIAL	GLAZING	FRAME	HARDWARE: HINGES	LOCK	CLOSER	PUSH/PULL	W STRIP	LATCH SET	REMOVABLE MULLION	PANIC	STOP	THRESHOLD	FLOOR CHECK	NO. 6 FT. BOLTS	REMARKS
1	PAIR 3'0"X7'0"X1¾" NARROW STILE	ALUMINUM	¼" TEMPD GL.	ALUMINUM		○		○	○		○	○	○	○	○		
2	PAIR 3'0"X8'0"X1¾"	H.M. "Y"		H.M. "A"	○	○	○	○	○		○	○	○	○			
3	PAIR 3'0"X8'0"X1¾"	H.M. "Y"		H.M. "B"	○	○	○	○	○		○	○	○	○			
4	18'0" X 15'-1" ROLL-UP OVERHEAD	STEEL		STEEL FRAME		○			○								CHAIN OPERATED
5	3'0"X8'0"X 1¾" NARROW STILE	ALUMINUM	¼" TEMPD GL.	ALUMINUM		○	○	○	○			○	○	○	○		
6	3'0"X7'0"X1¾" (PAIR)	H.M. "X"	¼" TEMPD GL.	H.M. "C"	○		○	○					○	○			
7	3'0"X7'0"X1¾"	H.M. "X"	¼" TEMPD GL.	H.M. "D"	○	○	○			○			○				
8	PAIR 3'0"X7'0"X1¾" DA.	H.M. "X"	¼" TEMPD GL.	H.M. "E"	○	○		○						○	○	○	
9	PAIR 3'0"X7'0"X1¾"	H.M. "Y"		H.M. "F"	○	○				○			○	○		○	
10	3'0"X7'0"X1¾"	H.M. "Y"		H.M. "G"	○	○				○			○	○			
11	3'0"X7'0"X1¾"	H.M. "Y"		H.M. "D"	○	○				○			○				
12	3'0"X7'0"X1¾"	H.M. "Y"		H.M. "D"	○	○				○			○	○			
13	3'0"X7'0"X1¾" 2 REQ'D FOR MEN RM.	H.M. "Y"		H.M. "D"	○	○			○	○			○	○			MEN RM TO ROOF
14	20'0"X 10'0" FOLDING PARTITION	VINYL CLAD STEEL			PULLS, LATCHES, TRACK, CYL. LOCK MASTERKEYED												
15	6'0" X 10'0" FOLDING PARTITION	VINYL CLAD STEEL			" " " " " " " "												SEE ALTERNATE NO. 1
16	50'0" X 10'0" FOLDING PARTITION	VINYL CLAD STEEL			" " " " " " " "												" " " "
17	24'0" X 8'0" DOUBLE COIL WALL	WOOD SLATS			MOTOR OPERATOR, FLR. COIL TRACKS, LOCK MASTER KEYED												KEY OPERATED MOTOR
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	



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VAN DEUS
PORTI
ARCHITEC
PLANNE
Grand Junction, Colo

REVISIONS

STATE OF COLO
REGISTERED
ARCHITECT

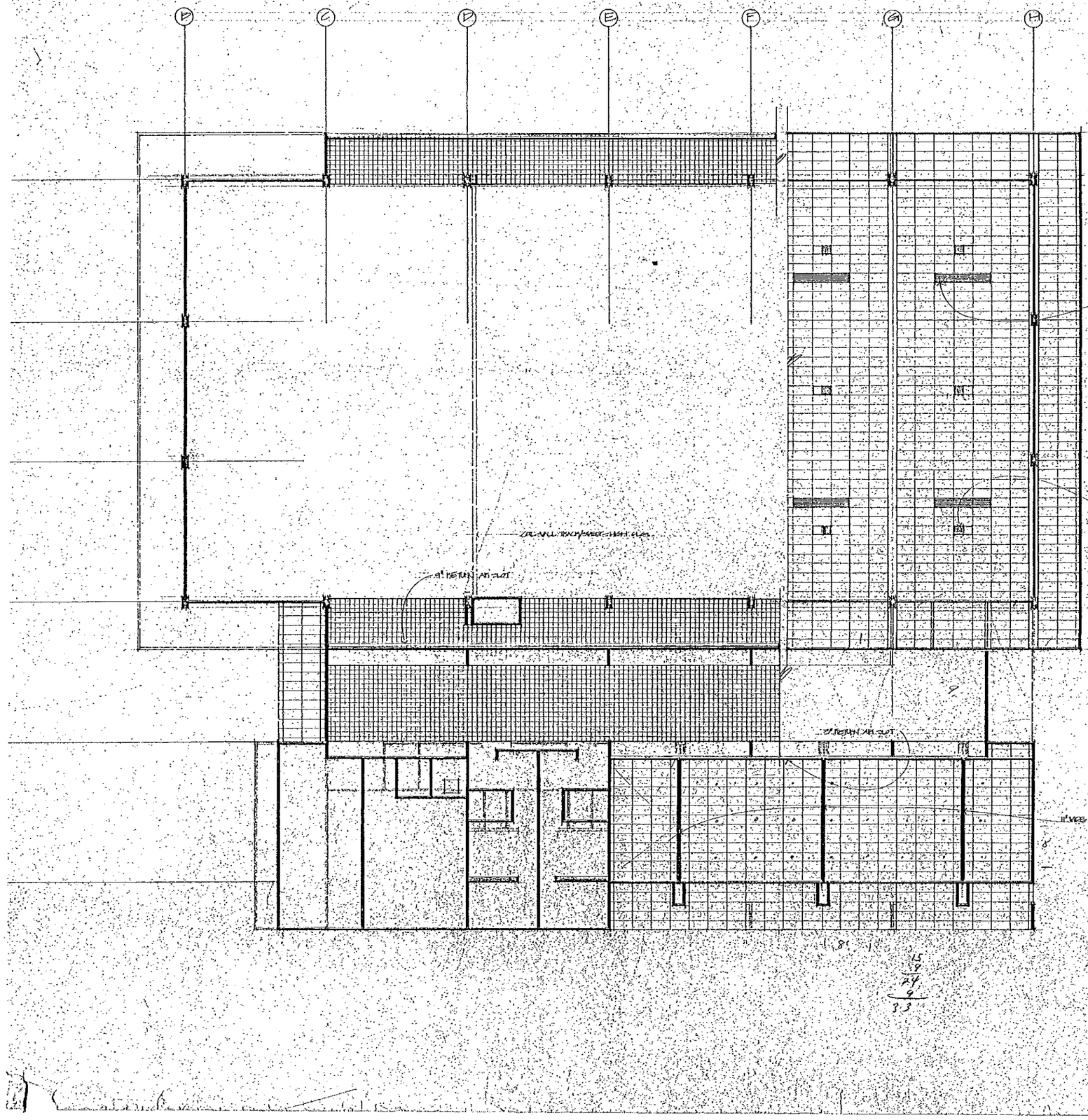
MULTI-PURPOSE BUILDING

project no.
drawn by.

sheet
OPENING
FINISH
SCHEDUL

no.
A

B C D E F G H



VAN DEUSEN / PORTE ARCHITECT / PLANNER
grand junction colorado

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REGISTERED ARCHITECT

MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

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date

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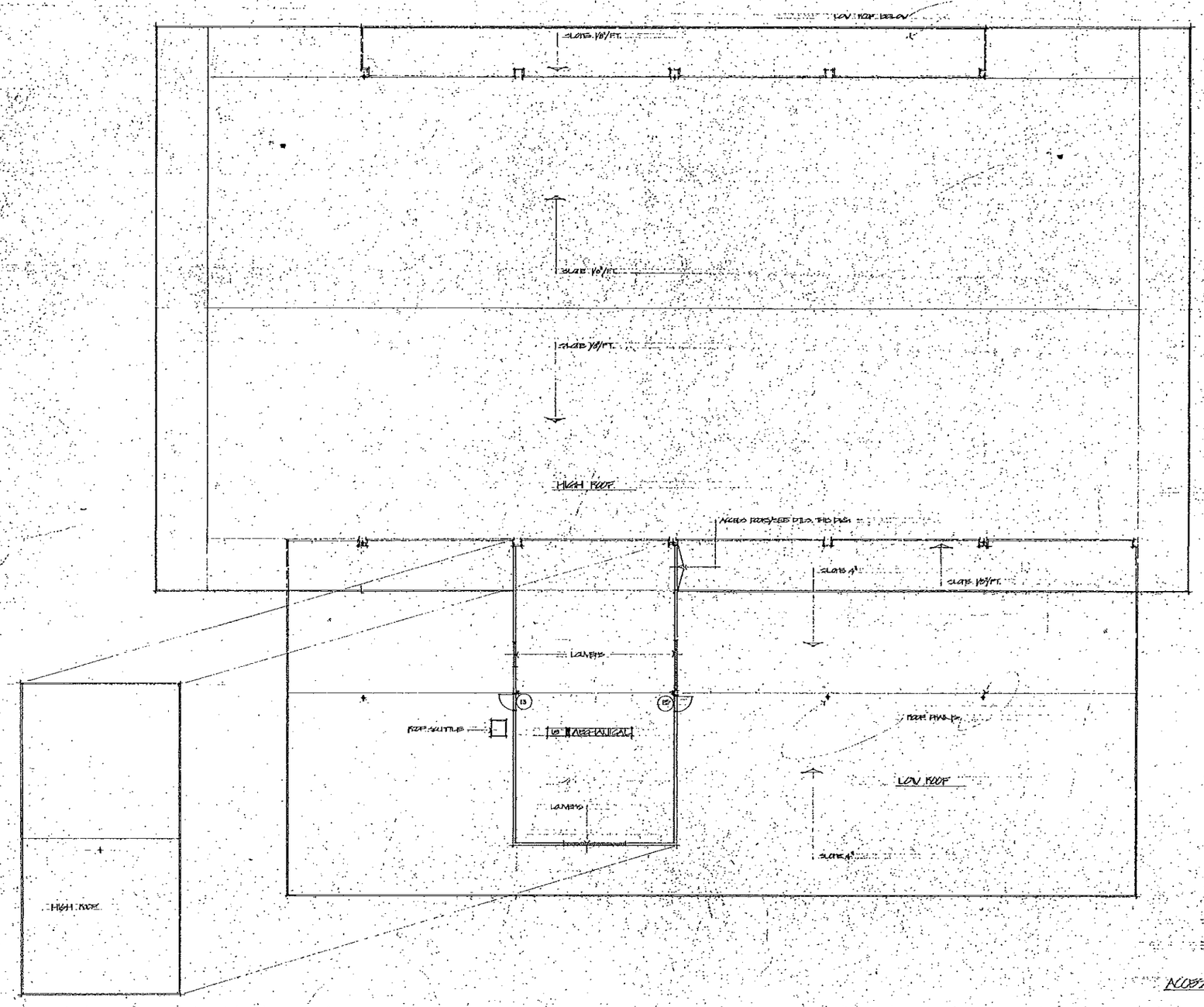
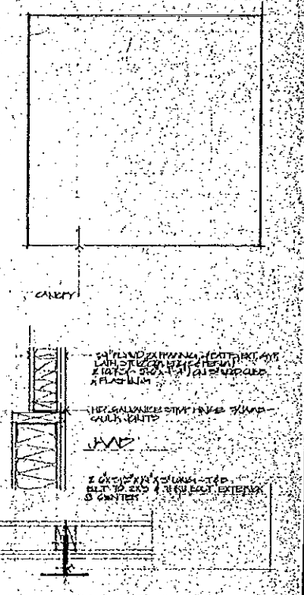
REFLECTED CEILING PLAN
(PLAZA LEVEL)

no.
A6





ACCESS PANELS - EQUIPMENT ROOM 1/8"=1'-0"

09105907.TIF

VAN DEUSEN / PORTER ARCHITECTS / PLANNERS
grand junction, colorado

REVISIONS

STATE OF COLORADO REGISTERED ARCHITECT

MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

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7/20/94

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ROOF PLAN

no.
A7

NORTH ELEVATION

EAST ELEVATION

1

2

3

4

5

6

7

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/ PORT
ARCHITE
/ PLANN
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MULTI-PURPOSE BUILDING

GRAND JUNCTION

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sheet
ELEVATION

no.
A8

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MULTI-PURPOSE BUILDING

GRAND JUNCTION

COLORADO

VAN DEUSEN & ASSOCIATES
ARCHITECTURE / PLANNING

REVISIONS

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drawn by:

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ELEVATION

no. A9

SECTION 1 1/8" = 1'-0"

SECTION 2 1/8" = 1'-0"

STEEL RAILING DETAIL 1/2" = 1'-0"

1

2

3

4

5

VANDEPORT ARCHITECTS / PLANNERS
grand junction, colorado

REVISIONS

STATE OF COLORADO
REGISTERED ARCHITECT

MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

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7/28/89

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SECTIONS & DETAILS

no.
A10

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MULTI-PURPOSE BUILDING

GRAND JUNCTION, COLORADO

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REVISIONS

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date

sheet

DETAILS

no. A1

SECTION 3 — 1/8" = 1'-0"

SECTION 4 — 1/8" = 1'-0"

PEDESTRIAN RAMP RAIL DETAIL — 3/4" = 1'-0" (1/12)

VAN DEUS / PORTE ARCHITECT / PLANNER
grand junction, colo.

REVISIONS

MULTI-PURPOSE BUILDING

COLORADO

GRAND JUNCTION,

project no. 48

drawn by

sheet
SECTIONS & DETAILS

no.
A12

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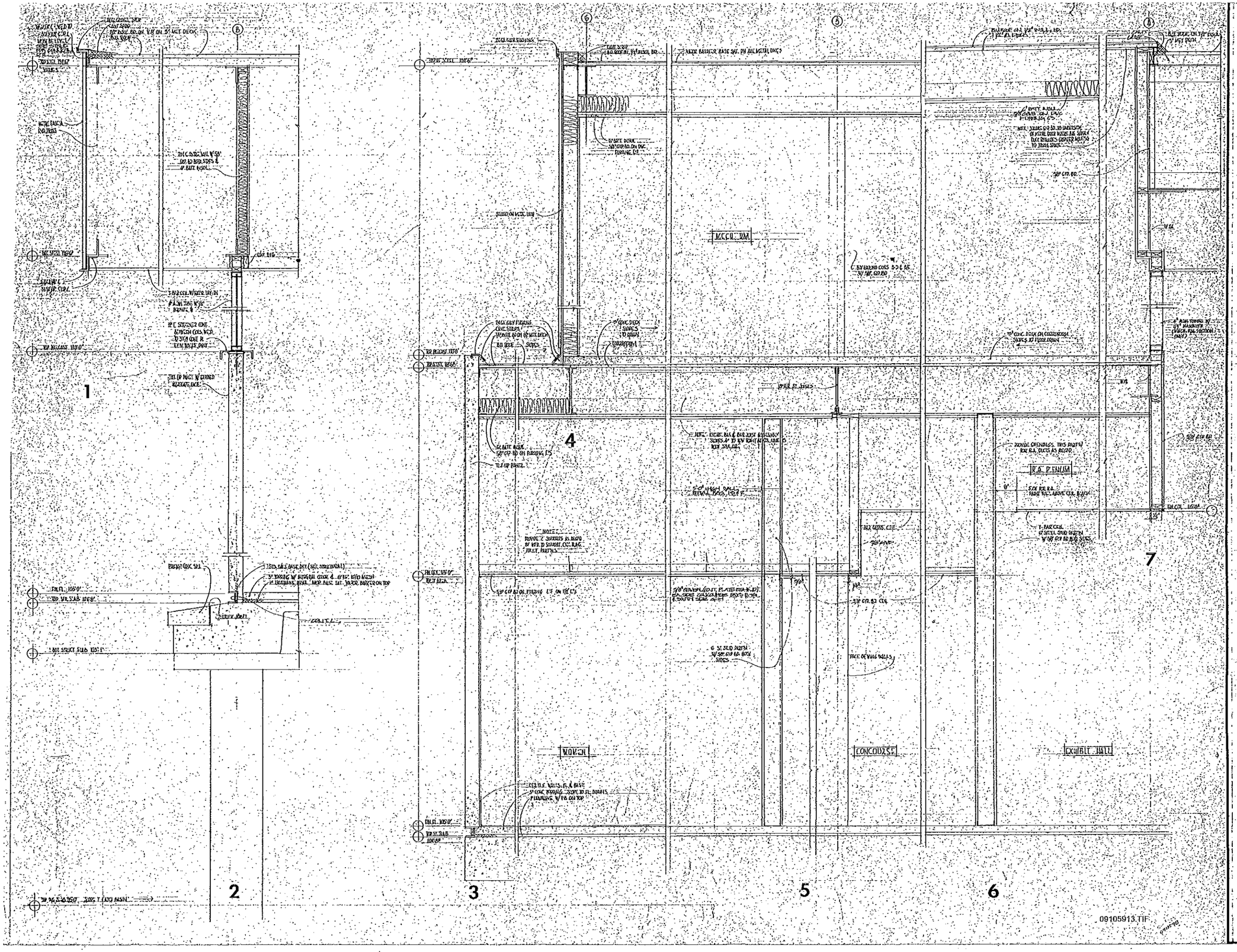

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REVISIONS

STATE OF COLORADO
REGISTERED ARCHITECT

MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

project no. 489
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7/19/94

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DETAILS

no.
A10

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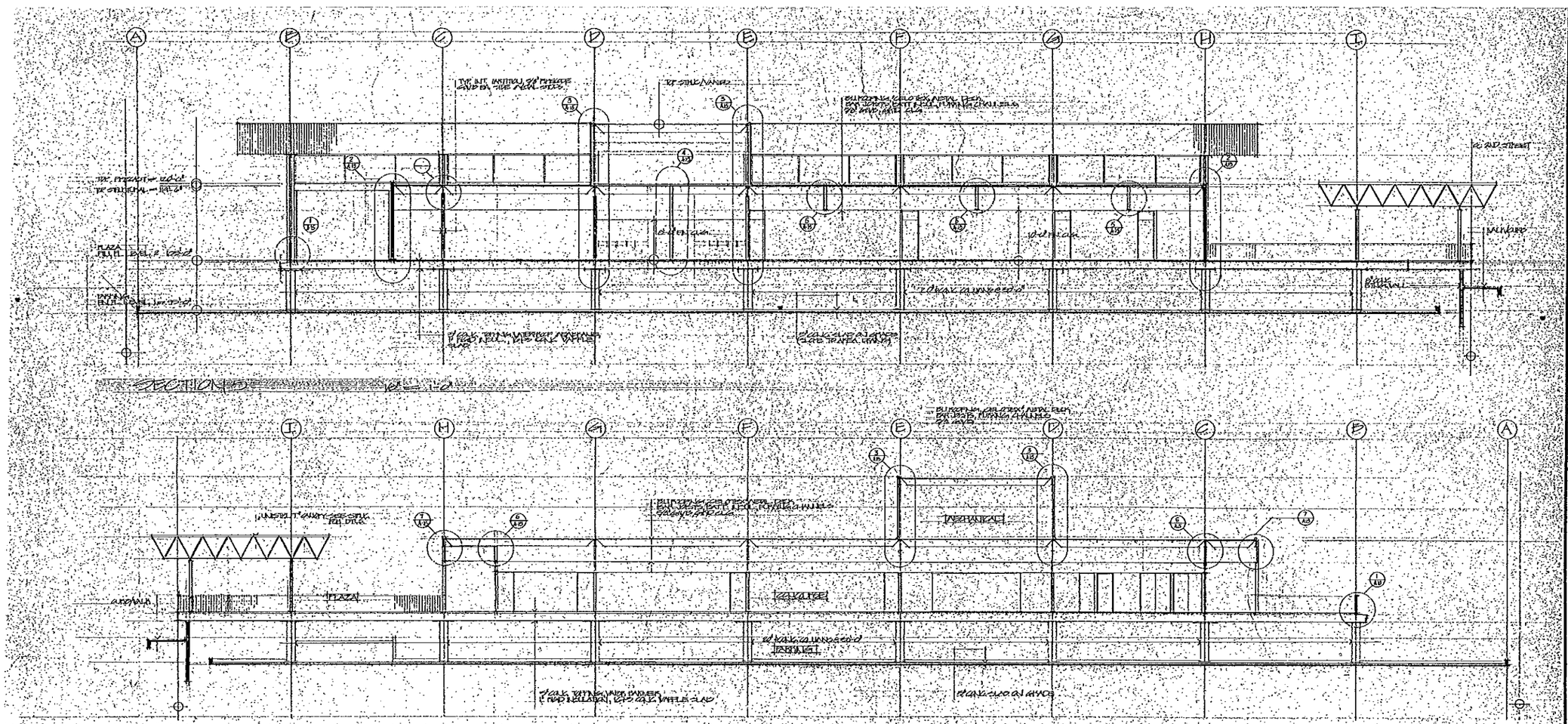
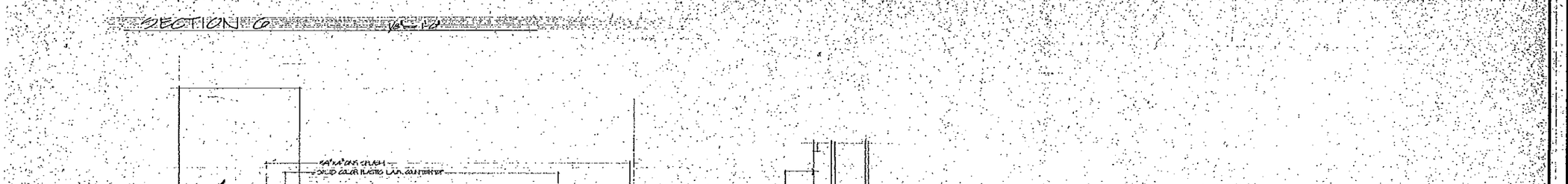
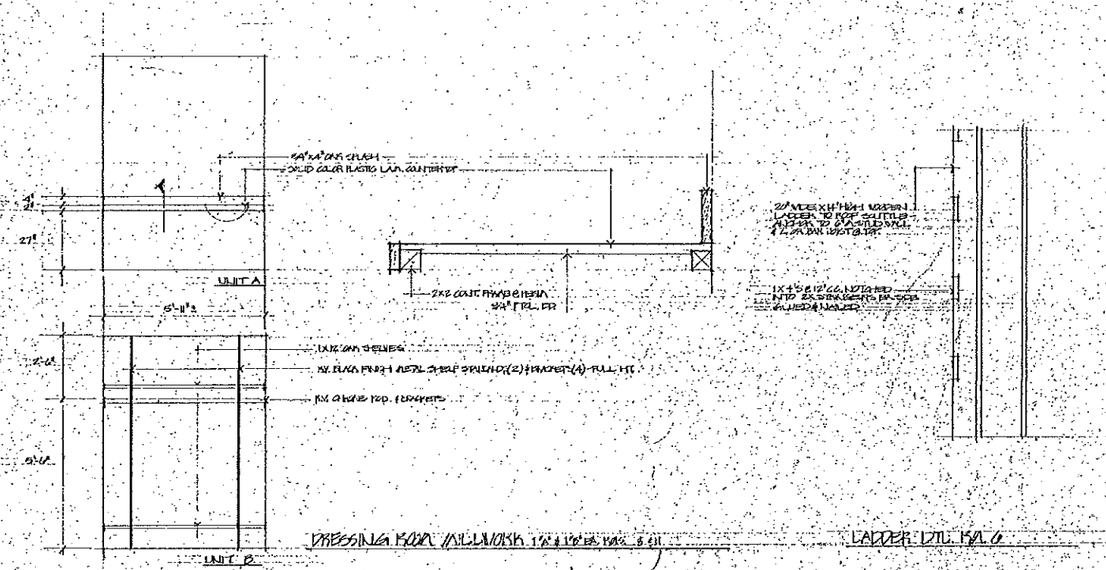


SECTION 5



SECTION 6



DRESSING ROOM MILLWORK

LADDER DTL.

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MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

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SECTIONS & DETAILS

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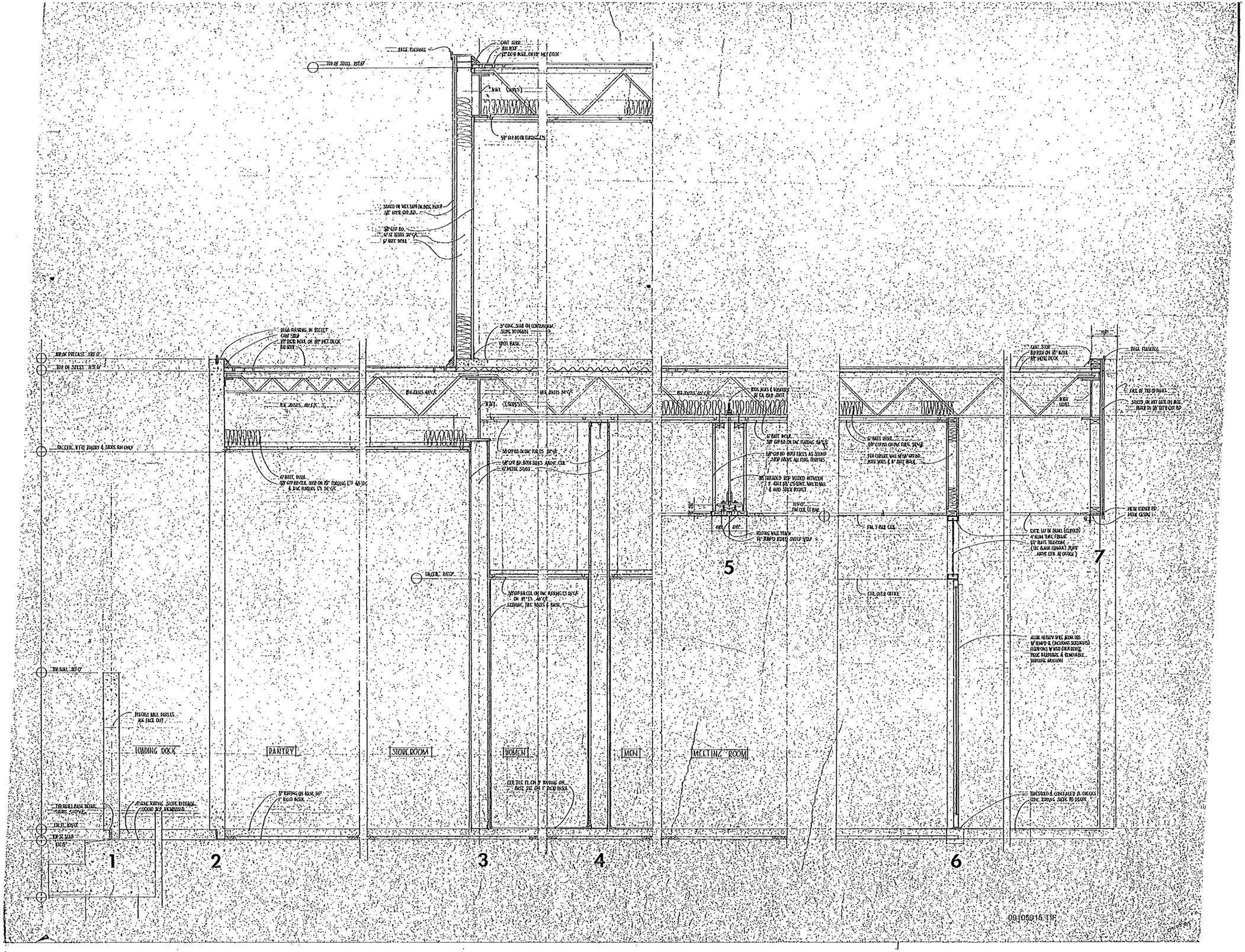
LOADING DOCK
PANTRY
STOVE ROOM
WOMEN
MEN
MEETING ROOM
1
2
3
4
5
6
7

09.05.15 TIF

VAN DEUSE
/ PORTE
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/ PLANNER
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BUILDING
COLORADO

MULTI-PURPOSE
GRAND JUNCTION

project no. A8
drawn by: E

sheet
PLAZA LEVE
FRMG. PLA

no.
S2

1 PLAZA LEVEL FRAMING PLAN
SCALE: 1/8"=1'-0"

NOTES: 1. SEE SHT. S1 FOR JOIST & BEAM SCHEDULE
2. SEE SHT. S1 FOR CONC. COLUMN REINF.
3. SEE SHT. S2 FOR PRECAST TILT-UP WALLS
4. SEE ARCH. DWGS. FOR HANDRAIL & STAIR DETAILS.

2 JOINT DETAIL
SCALE: 1"=1'-0"

3 SECTION
SCALE: 1"=1'-0"

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MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

VAN DEUSEN / PORTER ARCHITECTS / PLANNERS

3 REVISIONS

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drawn by CJL

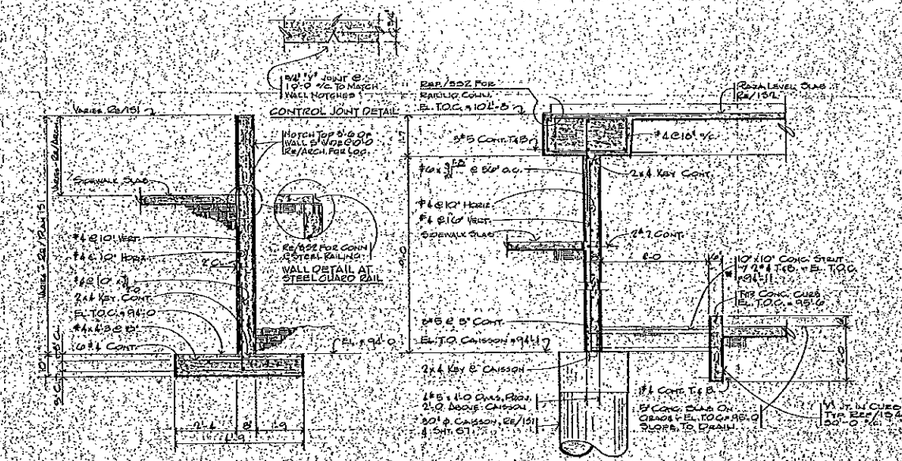
sheet
ROOF FRMG PLANS

no S3

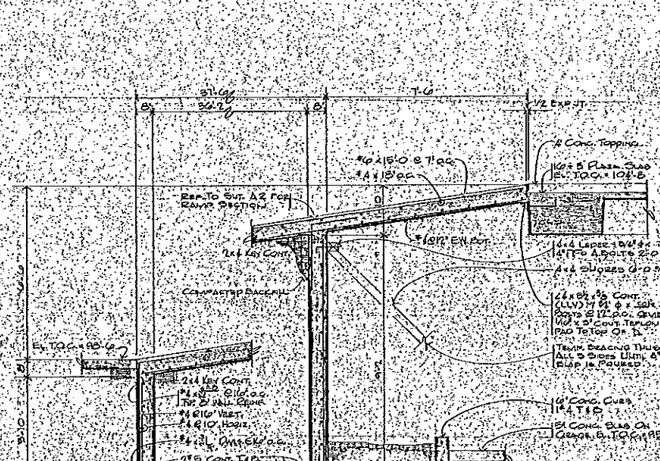
09/09/18 TIF

1 ROOF AND MECHANICAL FLOOR FRAMING PLAN
1/4" = 1'-0"

2 MECHANICAL ROOM ROOF FRAMING PLAN
1/4" = 1'-0"

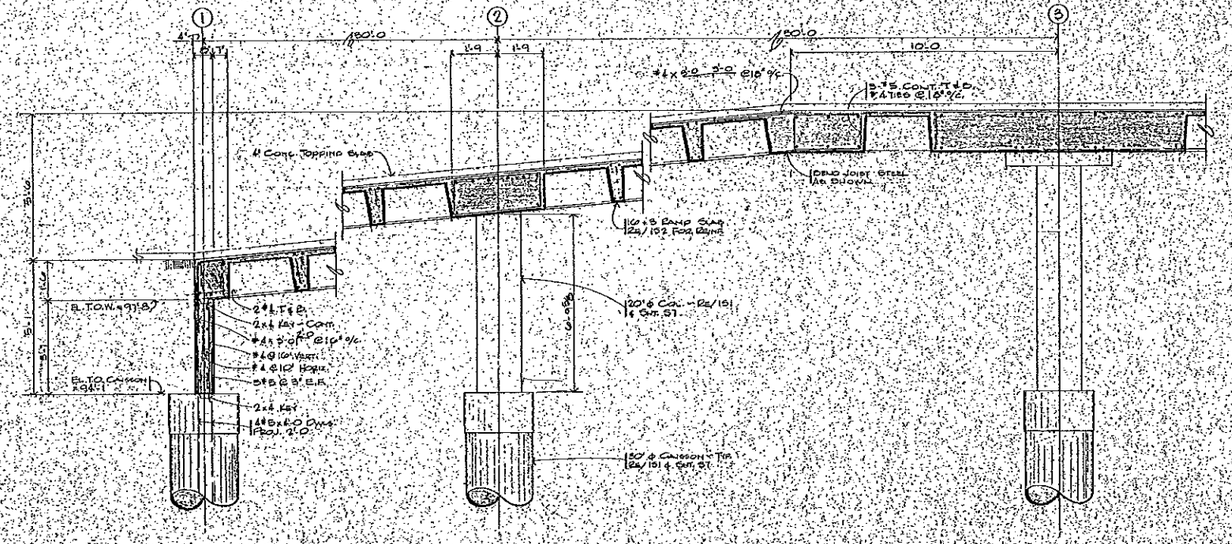


1 SECTION

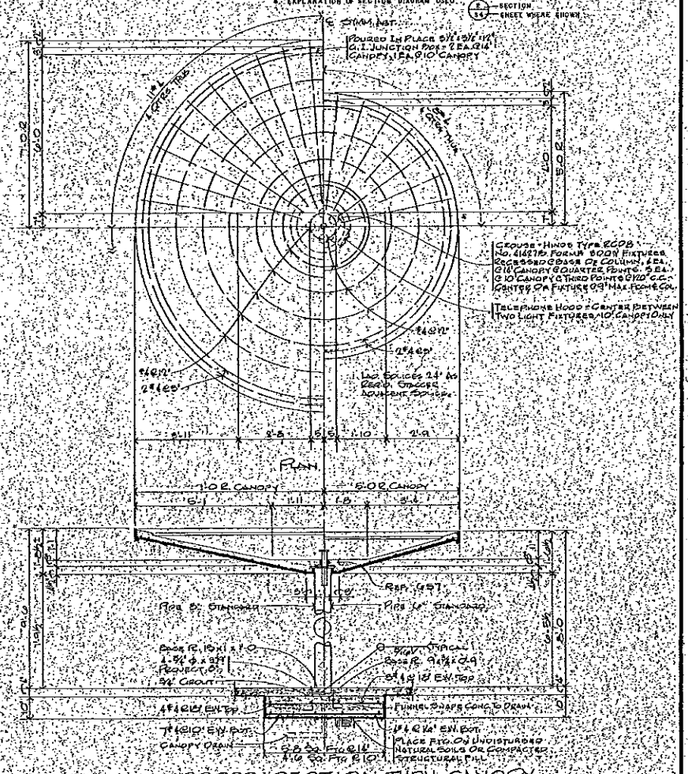


2 SECTION

3 SECTION THRU SOUTH RAMP



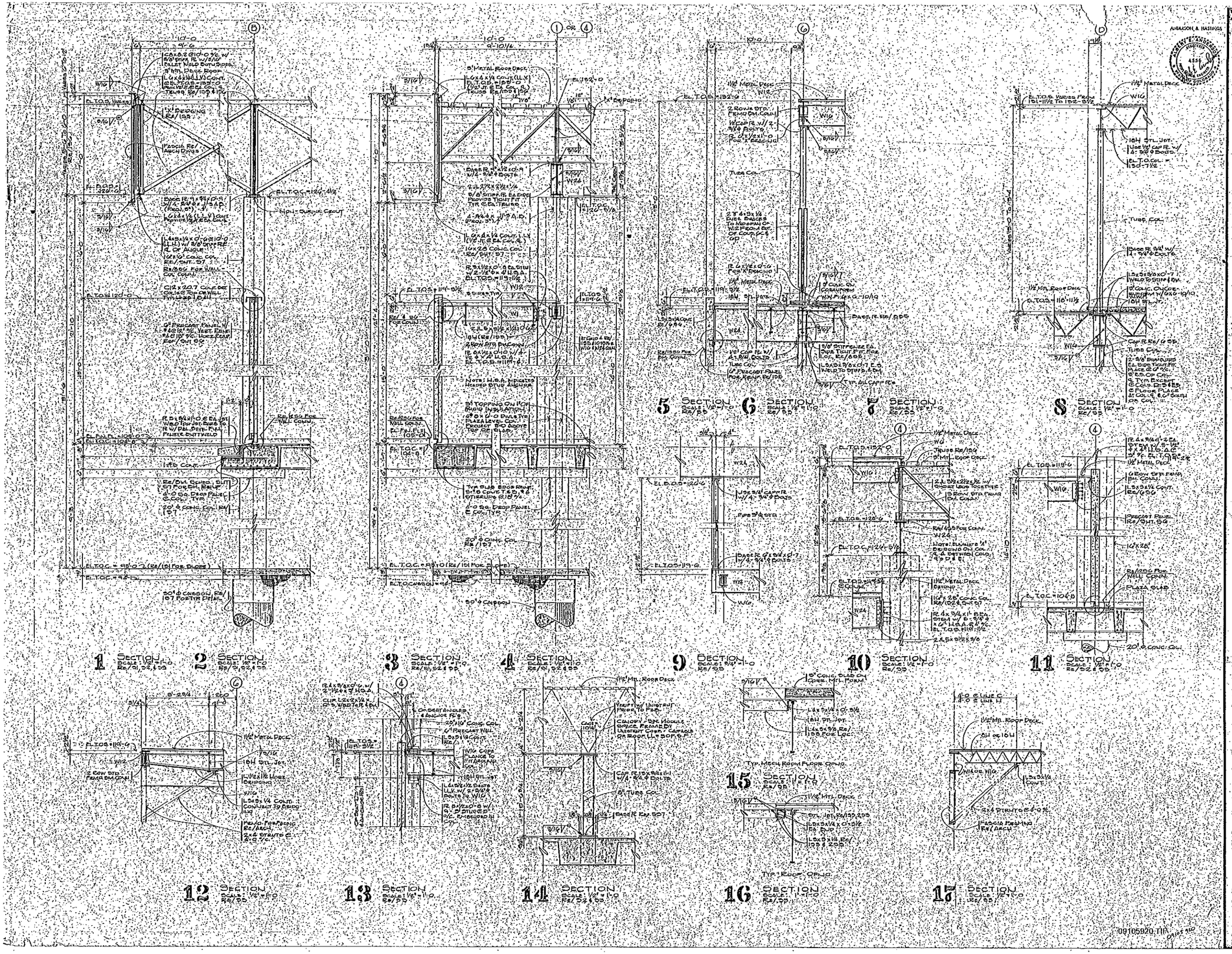
4 SECTION THRU EAST RAMP



5 CROSS SECTION THRU CANOPY

GENERAL NOTES

1. LIVE LOADS USED IN DESIGN :
   A. ROOF ..... 30 psf
   B. FLOOR, PLAZA & RAMPS ..... 100 psf
   C. STAIRS ..... 100 psf
2. CONCRETE :
   A. ALL CONCRETE IN CONTACT WITH EARTH TO BE TYPE II, f'c = 3000 psi WITH 7½% TYPE II CEMENT, 28 DAY COMPRESSIVE STRENGTH OF CONCRETE TO BE 3000 psi, EXCEPT, THE PLAZA SLAB, COLUMNS ABOVE PLAZA AND RAMP, WHICH SHALL BE 4000 psi. ALL 30" Ø COLUMNS BELOW THE PLAZA SLAB TO BE 4000 psi.
   B. ALL REINFORCING SHALL BE HIGH STRENGTH DEFORMED BARS, GRADE 60 A.S.T.M. A615, 68 WITH 60,000 psi MINIMUM YIELD POINT.
3. REINFORCEMENT PROTECTION :
   A. CONCRETE POURED AGAINST EARTH ..... 3"
   B. CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH :
      a. IF BARS ARE LARGER THAN NO 5 ..... 2"
      b. IF BARS ARE NO 5 OR SMALLER ..... 1½"
   C. COLUMNS, BUSSERD AND BEAMS ..... 1½"
   D. SLABS, WALLS AND JOISTS ..... ¾"
4. ALL BAR LENGTHS ARE GIVEN TO SCALE UNLESS NOTED. NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF 30 BAR DIAMETERS FOR COLUMNS, AND 24 BAR DIAMETERS FOR ALL OTHERS. MAKE ALL BARS CONTINUOUS AROUND CORNERS.
5. DETAIL BARS IN ACCORDANCE WITH A.C.I. DETAILING MANUAL AND A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITIONS.
6. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS.
7. PLACE 2-NO 8 (EACH FACE) WITH 2'-0 PROJECTION AROUND ALL OPENINGS IN CONCRETE SLABS, BEAMS, AND JOISTS, BUT NOT HAVING JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE MUST BE MADE AT CENTER OF SPAN WITH VERTICAL SHEARKEYS AND / OR HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE ARCHITECT.
8. CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS AND GRADE BEAMS SHALL BE SPLICED AS FOLLOWS :
   A. TOP BARS - AT MIDSPAN
   B. BOTTOM BARS - OVER SUPPORT
9. ALL BENDUPS SHALL HAVE 6-NO 3 SPACERS FOR LENGTH OF BENDUP. BENDING AND SHRINKAGE REINFORCEMENT MUST LAP ONE FULL MESH AT SIDE AND LAP, AND SHALL BE WIRED TOGETHER.
10. STEEL :
    A. STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISIONS OF A.I.S.C. MANUAL OF STEEL CONSTRUCTION.
    B. USE STANDARD FRAMED BEAM CONNECTIONS WITH ¾" Ø BOLTS (OR WELDED EQUIVALENT) UNLESS OTHERWISE NOTED. DESIGN CONNECTIONS TO SUPPORT ONE HALF THE TOTAL LOAD CAPACITY, FOR EACH RIVER BEAM AND SPAN. THE EFFECT OF CONCENTRATED LOADS SHALL ALSO BE CONSIDERED.
    C. STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS.
    D. STEEL DECK :
       a. ALL STEEL DECK SHALL BE ERECTED IN ACCORDANCE WITH DECK MANUFACTURER'S SUGGESTED SPECIFICATION.
    E. STEEL DECK BY OTHER MANUFACTURERS MAY BE SUPPLIED IN LIEU OF THAT SHOWN, PROVIDED SECTION PROPERTIES ARE SIMILAR TO THOSE OF DECK SPECIFIED, AND IS APPROVED BY ARCHITECT.
    F. DECK SUPPLIER SHALL PROVIDE ALL ADDITIONAL FRAMING AS REQUIRED FOR OPENINGS THROUGH DECK.
    G. DECK WELDING SHALL BE AS FOLLOWS :
       a. 3" AND 1½" METAL DECK : AT EXTERIOR SUPPORTS : WELD DECK TO SUPPORTS WITH 5 WELDS PER PANEL, USE WELD WASHERS. AT INTERIOR SUPPORTS : WELD DECK TO SUPPORTS WITH 2 WELDS PER PANEL, USE WELD WASHERS. AT SIDE JOINTS : PUDDLE WELDS AT 18" o.c. AND END OF DECK WITH 3/4" PUDDLE WELDS AT EACH SIDE RIB. AT INTERIOR SUPPORTS : WELD WITH 3/4" PUDDLE WELDS AT EACH SIDE RIB. AT SIDE JOINTS : BUTTON PUNCH 36 INCH APART WELD AT EA. END OF SIDE JOINTS, BUTTON PUNCH 36 INCH APART WELD AT EA. END OF SIDE JOINTS, BUTTON PUNCH 36 INCH APART WELD AT EA. AT ADJACENT DECK MEMBERS, AT DECK



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MULTI-PURPOSE BUILDING
GRAND JUNCTION COLORADO

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sheet
FULL HEIGHT AND MISC. ROOF SECTIONS

no.
S5

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GRAND JUNCTION, COLORADO

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no. M1

MAIN FLOOR PLAN SCALE: 1/8"=1'-0"

EQUIPMENT PLAN

SECTION A-A

SECTION B-B

TYP. SECTION C-C SCALE: 1"=1'-0"

DIFFUSER ISOMETRIC N.T.S.

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AIR CONDITIONING SYMBOLS & LEGEND

TYP RET. AIR FAN INSTALLATION

DUCT DRAIN DETAIL

MECHANICAL UTILITY BOX DETAIL

TYP PIPING SCHEMATIC

PLUMBING ISOMETRIC

RAIN LEADER / WATER SERVICE DETAILS

DOMESTIC WATER HEATER PIPING SCHEMATIC

PLUMBING ISOMETRIC

TYP PIPING SCHEMATIC

GRADE
BACKWATER VALVE DETAIL
TYPICAL SEWER CLEAN-OUT DETAIL
STORM SEWER
ROOF PLAN
NOTE:
ALL DOWNSPOUTS FROM ROOF DRAINS AND AREA DRAINS AD-1 ARE 3"ø
OFFSET AROUND ROOF STRUCTURE AND DROP INSIDE SPACE AT COLUMN
SEE ARCH. DETAIL
MAIN STREET
SIDEWALK
BACKWATER VALVE SEE DETAIL
CLEANOUT AT GRADE SEE DETAIL
FIRE HYDRANT IN PLANTING
THRUST BLOCKS (TYP.)
ASB CEMENT PIPE
CITY SEWER IN ALLEY
PARKING LEVEL PLAN
PLUMBING & PIPING LEGEND
SYMBOL
ABBREV.
DESCRIPTION
SOIL OR WASTE
VENT
COLD WATER
HOT WATER
HOT WATER RETURN
GAS
STORM DRAIN
SPRINKLER LINE
FIRE LINE
COMPRESSED AIR
UNION
GATE VALVE
GLOBE VALVE
CHECK VALVE
PLUG COCK
STRAINER
RELIEF VALVE
PRESSURE REGULATOR
VALVE OR COCK IN RISER
HOSE BIB
CLEANOUT
FLOOR CLEANOUT
FIRE HYDRANT
CLEANOUT TO GRADE
CLEANOUT IN YARD BOX
FLOOR DRAIN
FLOOR SINK
ACCESS PANEL
AIR CHAMBER
AREA DRAIN
CAST IRON
COMBINATION WASTE & VENT
DOWNSPOUT
FIRE HOSE CABINET
FIRE EXTINGUISHER CABINET
FLOOR ELEVATION
INVERT ELEVATION
ROOF DRAIN
VENT THRU ROOF
VITRIFIED CLAY PIPE
POINT OF CONNECTION
MANHOLE
GATE VALVE IN YARD BOX
GATE VALVE IN VALVE BOX
VAN DEUSEN & PORTER
ARCHITECTS & PLANNERS
grand junction, colorado
REVISIONS
STATE OF COLORADO
REGISTERED ARCHITECT
MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO
project no.
drawn by
sheet
no. M-5
JAMES C. BURNS
REGISTERED
ARCHITECT
STATE OF COLORADO
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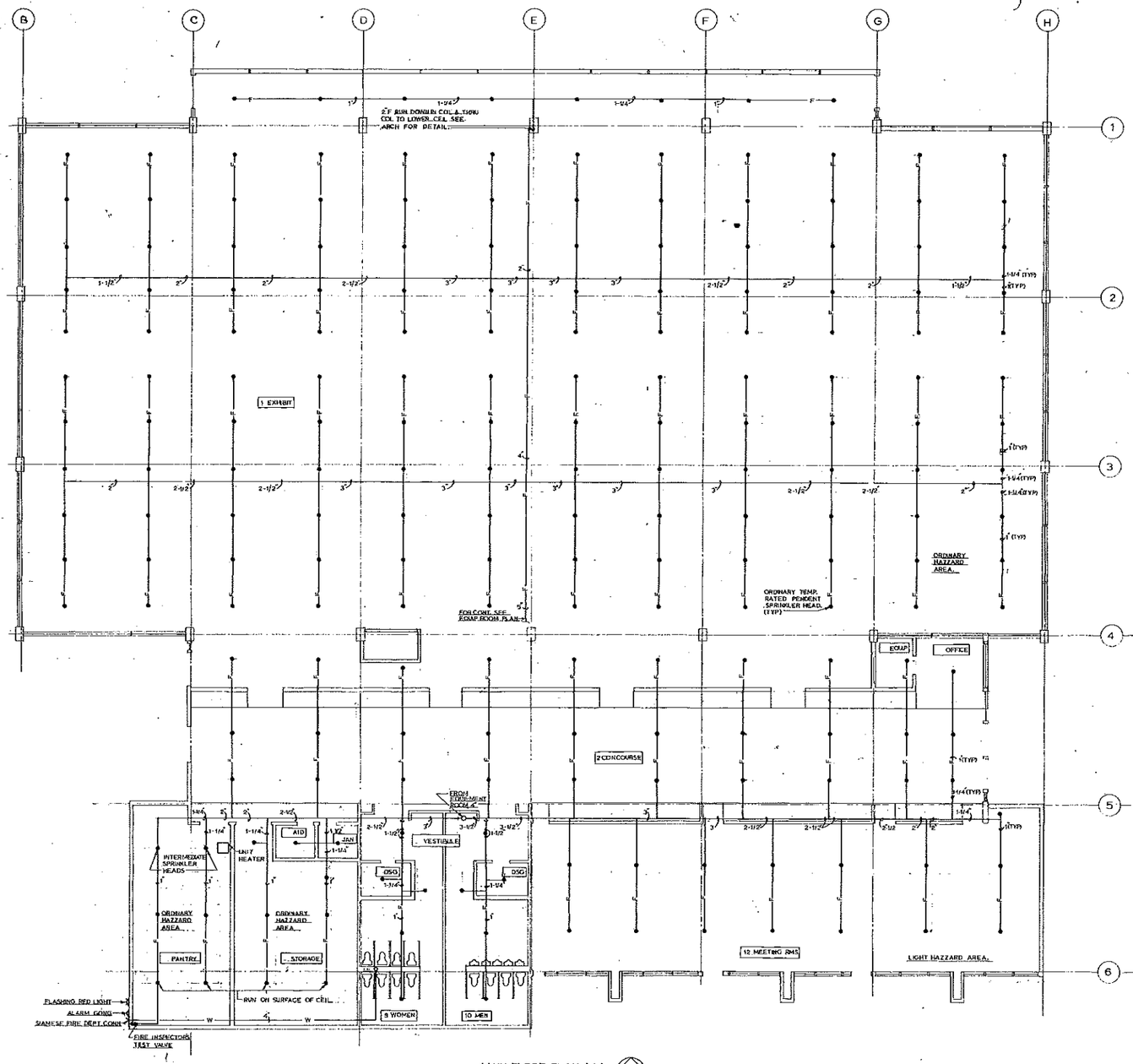
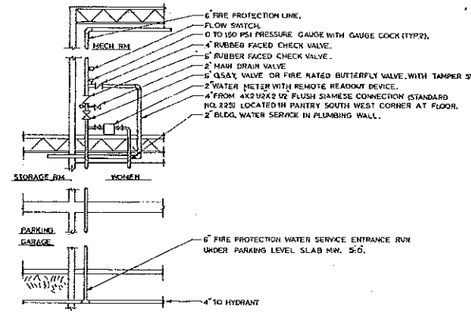
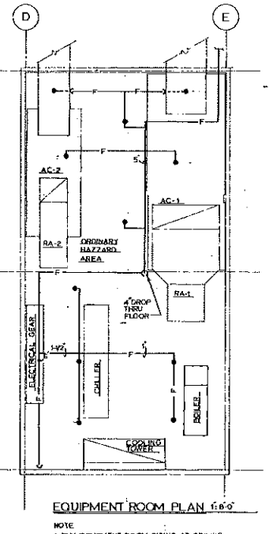


MAIN FLOOR PLAN 1/8"-0"



FIRE PROTECTION WATER SERVICE ENTRANCE DETAIL 1/8"=1'-0"

NOTE:
ALL SPRINKLER HEAD LOCATIONS ARE SHOWN TO PROVIDE A SYMETRICAL CEILING PATTERN. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION AT FINAL INSTALLATION.



EQUIPMENT ROOM PLAN 1/8"-0"

NOTE
1. RUN EQUIPMENT ROOM PIPING AT CEILING
2. PENDENT HEADS IN EQUIPMENT ROOM SHALL BE INTERMEDIATE TEMPERATURE RATED.

MULTI-PURPOSE BUILDING

JAMES C. RUSSELL REGISTERED 3425 PROFESSIONAL ENGINEER STATE OF COLORADO

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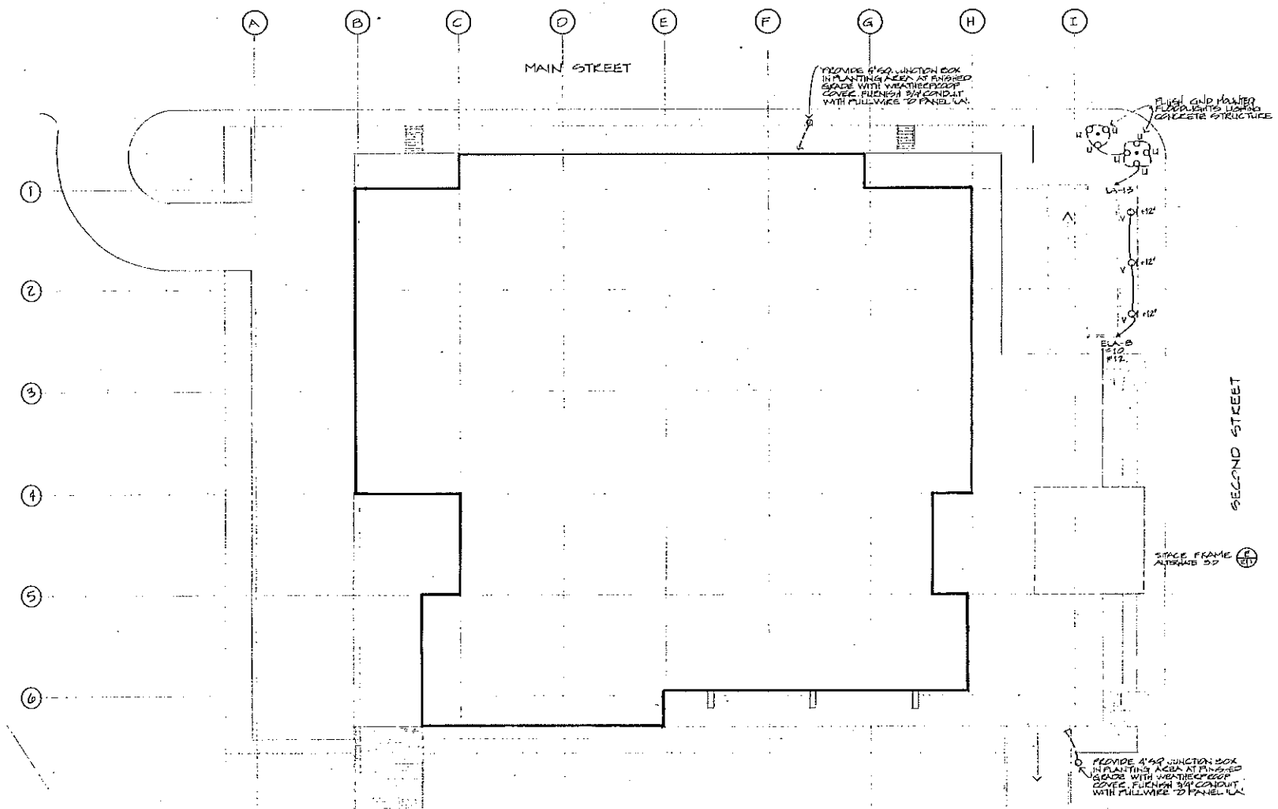
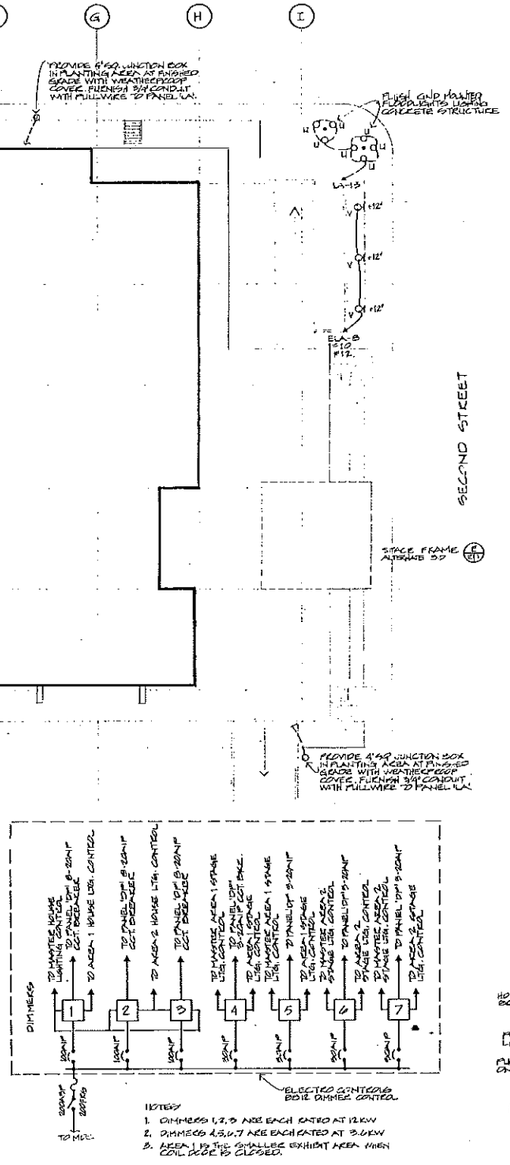


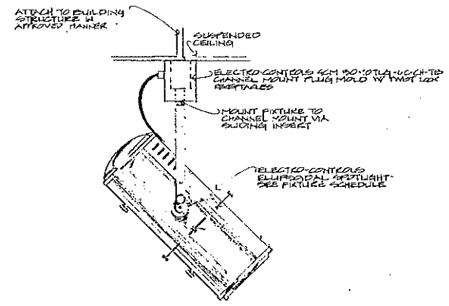
Electrical Site Plan

Scale 1/16"=1'-0"



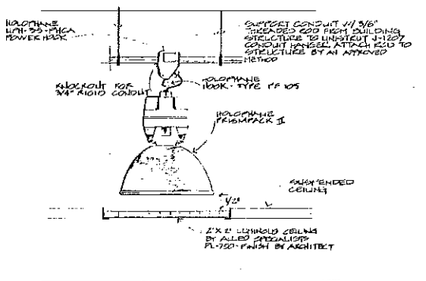
NOTES:
1. DIMMERS 1,2,3 ARE EACH RATED AT 12 KW
2. DIMMERS 4,5,6,7 ARE EACH RATED AT 3 KW
3. AREA 1 IS THE SMALLER EXHIBIT AREA WHEN COIL DOOR IS CLOSED.

DIMMER SYSTEM 1-LINE



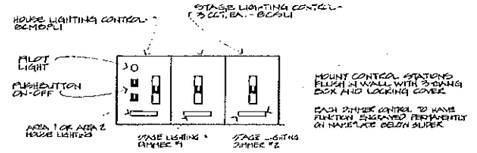
Detail

STAGE LIGHTING. (A / E1)



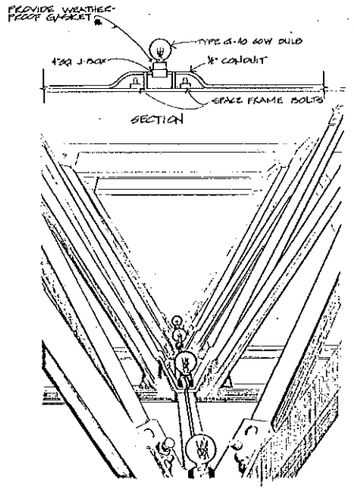
Detail

1000 W METAL HALIDE (B / E1)



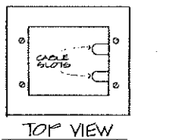
Detail

CONTROL PANELS CP1 AND CP2 (1)

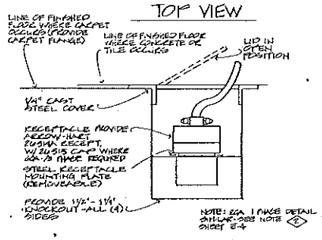


Detail

SPACE FRAME (E / E1)



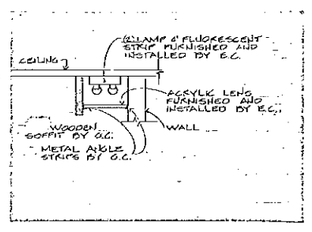
TOP VIEW



Detail

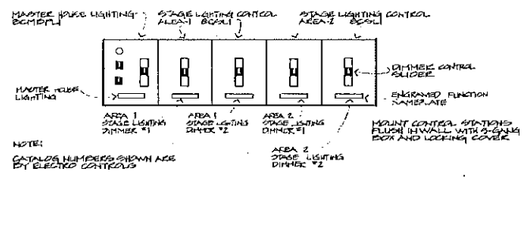
SPECIAL FLOOR BOX (D / E1)

SCALE 3/4"=1"



Detail

TOILET SOFFIT LIGHTING (C / E1)



NOTE:
CATALOG NUMBERS SHOWN ARE BY ELECTRO CONTROLS

Detail

CONTROL PANEL CPM

NOTE:
MASTER STATION TO "TAKE" ALL CONTROL FROM OTHER STATIONS WHEN ENERGIZED.
AREA #1 AND #2 CONTROL STATIONS TO OPERATE INDEPENDENTLY WHEN MASTER STATION IS DE-ENERGIZED.

Legend

Symbol	Description
	Lighting Panel
	Power Panel
	Main Distribution Center
	Telephone Terminal
	Circuit Run; underground, floor
	Circuit Run; in walls and ceilings
	Circuit Run; exposed
	Home Run; arrows are no. of circuits
	Ceiling Outlet; letter gives fixt. type
	Wall Outlet; letter gives fixt. type
	Incandescent Fixture; recessed
	Fluorescent Fixture; surface
	Fluorescent Fixture; recessed
	Fluorescent Striplight
	Spotlight
	Porcelain Lampholder; Bryant 5228 with 150A lamp
	Exit Light
	Duplex Receptacle; wall
WP	Duplex Receptacle; weatherproof
AC	Duplex Receptacle; above counter
	Duplex Receptacle; one-half switched
	Double Duplex Receptacle; wall
	Receptacle Outlet; floor
	Junction Box; ceiling
	Junction Box; wall
	Clock Outlet
	Sign Outlet
	Telephone Outlet; wall
	Telephone Outlet; floor
H	House Phone
P	Pay Telephone
TV	T.V. Outlet
P.A.	P.A. Speaker Outlet
	MASTER BREAKER
	MASTER BREAKER WITH SELECTOR SWITCH
S_a	Single Pole Switch; subscript indicates switching
S_2	Double Pole Switch
S_3	Three Way Switch
S_{TO}	Thermal Overload Switch
S_P	Switch & Pilot Light
S_K	Key Operated Switch
S_{LV}	Low Voltage Switch
$S\Phi$	Combination Switch & Receptacle Outlet
ES	Time Switch, type as noted
	Pushbutton Station
A	Amplifier
	Wiremold, type as noted
	Meter
	Motor Outlet & Connection
	Fused Safety Switch
	Magnetic Starter or Contactor
	Fused Disconnect Sw.; diagramatic
	Circuit Breaker; diagramatic
	Electrical Service Entrance
	Telephone Service Entrance
	Indicates Detail Notes
	Indicates Mechanical Equipment
KE	Indicates Kitchen Equipment
D	Dimmer, as noted
T	Thermostat
	Conduit up
	Conduit down
	Hood Outlet and Connection
	Disposer
	Special Purpose Outlet; noted
	Items shaded indicate being on emergency circuit
LV	Low Voltage Control Wiring
EP	EMERGENCY BATTERY PACK
	FLOOR POCKET
	FLUSH FLOOR MOUNTED MICROPHONE OUTLET.

Fire Alarm Symbols

	Door Closer
	Thermal Detector
	Ionized Detector
	Breakglass Station
	Horn
	Chime
FAP	Fire Alarm Panel
	Tamper Switch for Open Stem & Yoke
	Duct Detector
FS	Fire Stat
	COMBINATION LIGHT/HORN

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REVISION:

MULTI-PURPOS BUILDING

project n

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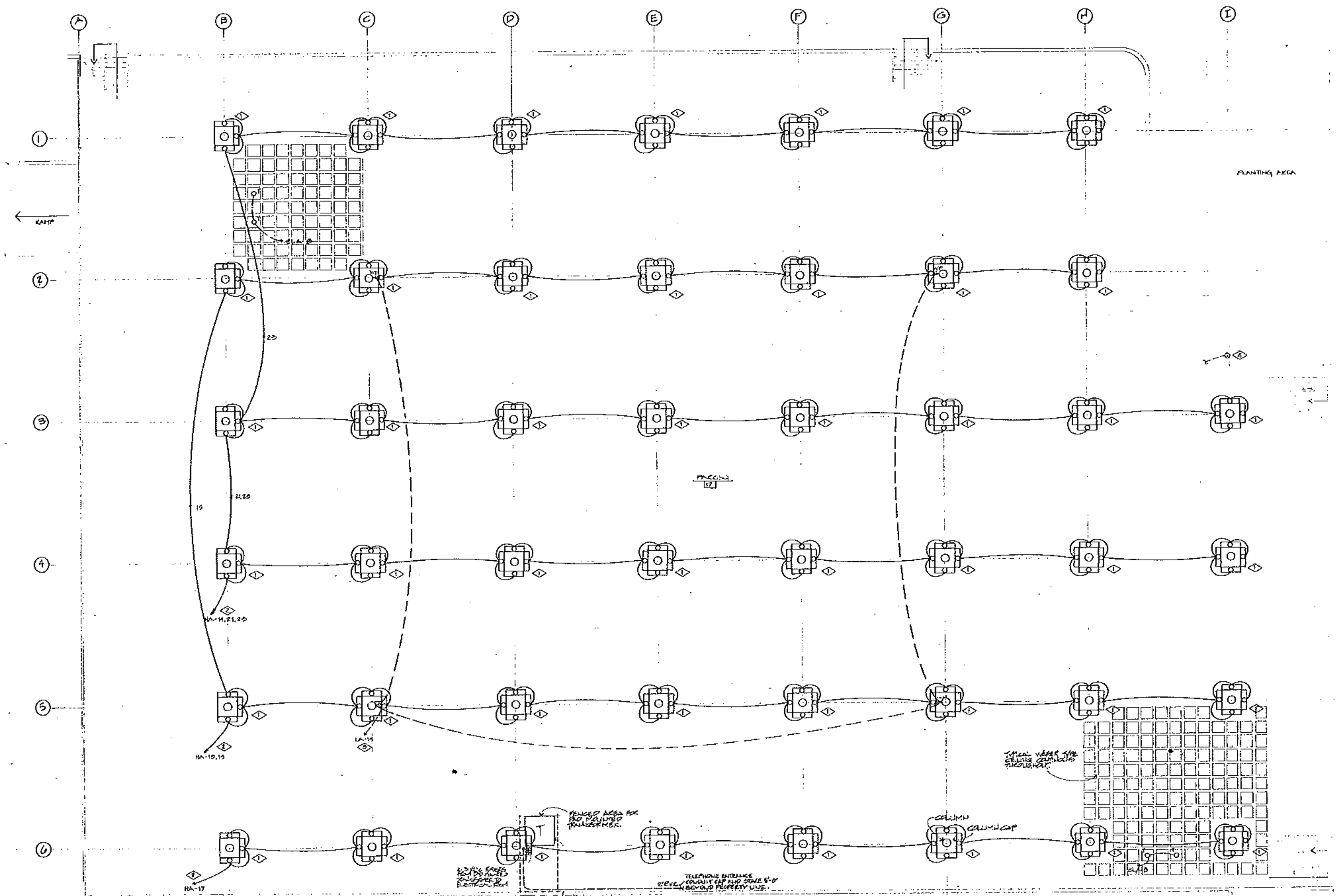
sheet

no.



Detail Notes This Sheet

1. ALL 4' SURFACE MOUNTED FLUORESCENT FIXTURES SHOWN ARE TYPE 'L2'.
2. CONDUCTORS TO BE #10 COPPER IN QUANTITY PER DRAWINGS.
3. ALL RECEPTACLES TO BE MOUNTED AT 5'0" AFF.
4. PROVIDE JUNCTION BOX IN PLANTING AREA AT FINISHED GRADE WITH WEATHER PROOF COVER. FURNISH 3/4" CONDUIT WITH PULL WIRE BACK TO PANEL 'LA'.

Lower Level Electrical Plan

Scale 1/8" = 1'0"

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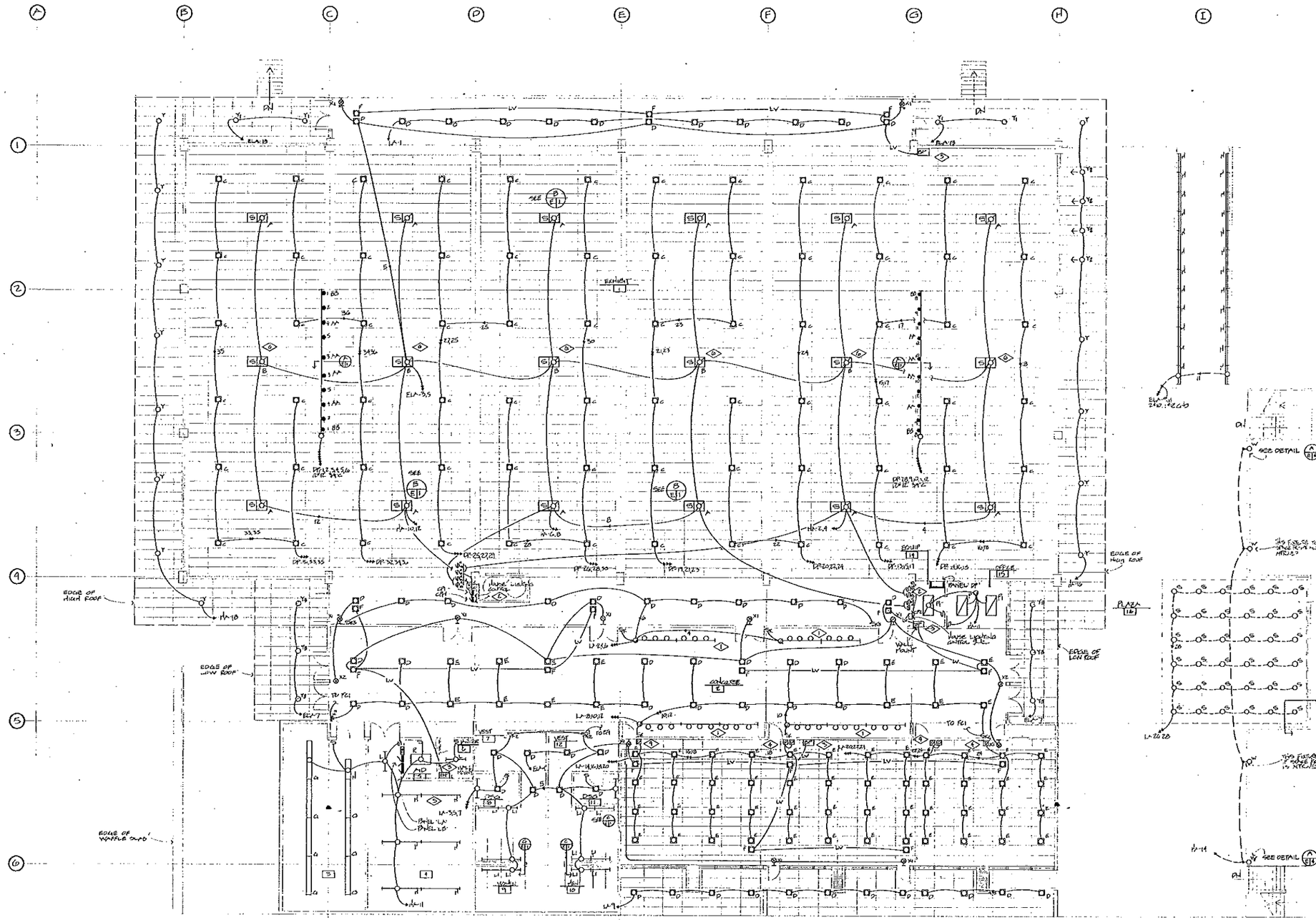

Detail Notes This Sheet

1. PARTIAL CIRCUIT TO LIGHT BACK OF RAISED EDGE ROOF AS NECESSARY TO ENSURE LIGHT IS EVENLY ON PLAN. EXTEND CIRCUITS IN TROUGHLINE WITH SOFFIT LIGHTS TO QUANTITY PER PLANS.
2. SEE HOUSE LIGHTING CONTROL SYSTEM DETAILS SHEET E1
3. PARTIAL EDGE PANEL & EMERGENCY LIGHTING BATTERY PACK WITHIN EDGE OF ROOF. ROUTE CONDUIT OUTSIDE CEILING ENVELOPE WHERE POSSIBLE.
4. PARTIAL CIRCUIT TO 1500 INCANDESCENT DIMMER OR MANNED EQUIP.
5. SEE ELECTRICAL ONE-LINE DIAGRAM
6. CONNECT EMERGENCY CIRCUIT TO QUANCE UNIT VIA LUG PROVIDED AS SHOWN.
7. CONNECT PARTIAL CIRCUIT TO LINE OF EXTERIOR PROVIDED SIDE OF FACE BOX AT OUTLET WITH EXTERIOR TYPE TO MATCH FIXTURE TYPE E'

First Floor Lighting Plan

Scale 1/8" - 1'0"

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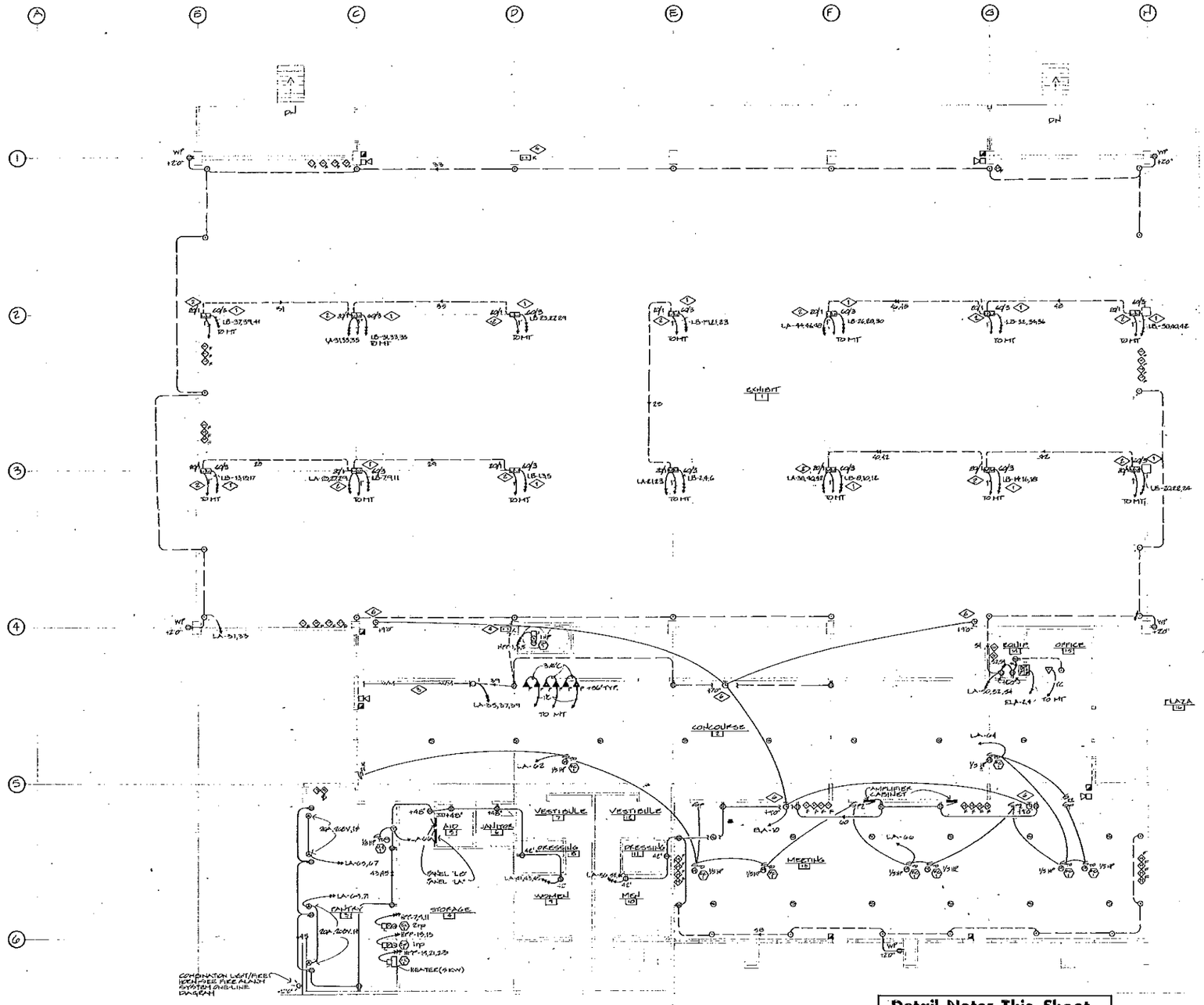
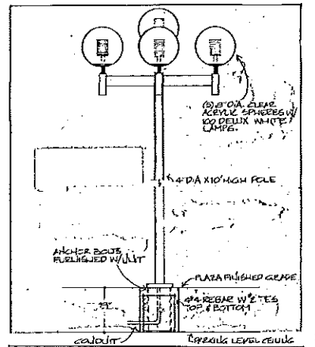


First Floor Power Plan

Scale 1/8"=1'0"

Detail Notes This Sheet

1. FURNISH ELECTRO CONTROLS #FETLG-MOD FLOOR POCKET. SEE DETAIL 4/E4
2. FURNISH ELECTRO-CONTROLS #FETLG FLOOR POCKET WITH ONE (1) EQA 3-STATE TWIST-LOCK RECEPTACLE. PROVIDE SEPARATION TO TELEPHONE CO. TO INSTALL PLUG IN TELEPHONE OUTLET.
3. FURNISH AND INSTALL FLOOR DUPLEX FLUSHMOUNTED RECEPTACLES 18" B.C. TO LEFT OF DRAWINGS
4. KEY OPERATED CONTROL STATIONS FOR DOOR OPERATOR MOTOR FURNISHED WITH MOTOR. ELECTRICAL CONTRACTOR TO FURNISH WIRE AND CONDUIT PER MANUFACTURERS' SPECIFICATIONS
5. VERIFY LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLATION
6. FURNISH SIMPLEX TYPE 67 WITH L HANDS AND 18" FACE. FLUSH MOUNT IN STILE DOORS. CLOSE TO MAKE SINGLE-ACTING HOOK WITH MANUALLY SET MOVEMENT.



Mounting Detail

E4

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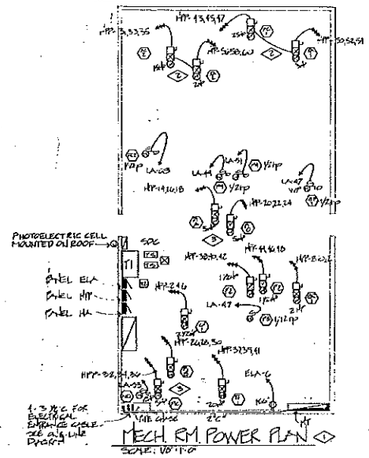
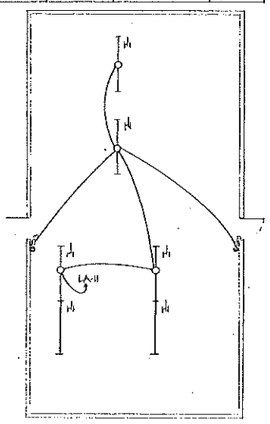
Fixture Schedule

Key	Lamps	Description	Finish	Mounting	Manufacturer	Cat. No.
A	1-MV400/BU	METAL HALIDE DOWNLIGHT 277V	STD	SEE (1)	PHOENIX	CM-377-MH/S 400 BUG-0
B	1-MV400/BU 1-SE400/UNIT	METAL HALIDE DOWNLIGHT W/ QUARTZ EMERGENCY UNIT 277V	STD.	SEE (1)	HOLOPHANE	CM-377-MH/S 400-BUG-0 EQ-SQ-400-RW
C	1-50W	QUARTZ DOWNLIGHT 120V	FURN.	RECESS	PHILIPSCH	CD-50-A6-RW
D	1-70MH	INCANDESCENT DOWNLIGHT MITKOLED RR SHOP LOCATION 120V	SEALED TO BE NOTED	15" RECESS	PRESCOLITE	4ECT-7010
E	1-70MH	INCANDESCENT DOWNLIGHT WITH PIC & BATT. 120V	SEALED TO BE NOTED	12" RECESS	PRESCOLITE	4ECD-7010
F	1-18W	SPECIALTY DOWNLIGHT 12V D.C.	STD.	RECESS	ELIOR	74-107-042
G	2-PLT18/CW	2 LAMP 18 FLUORESCENT WITH ACRYLIC WRAPAROUND LENS 277V	STD.	SURFACE	RUUD/ARE	RWT-2240
H	2-PLT18/CW	2 LAMP 18 FLUORESCENT CIRCUIT STRIP 277V	STD.	SURFACE	RUUD/ARE	RLC-2240
H1	2-PLT18/CW	2 LAMP 18 FLUORESCENT CIRCUIT STRIP 120V	STD.	SURFACE	RUUD/ARE	RLC-2240
L	2-F40	2 LAMP 4' FLUORESCENT CIRCUIT STRIP 277V	STD.	SURFACE	G-LIGHTING	G-2340HC
L2	2-F40/CW	2 LAMP 4' FLUORESCENT CIRCUIT STRIP 120V	STD.	SURFACE	RUUD/ARE	G-2340HC
L2	2-F40/CW	2 LAMP 4' FLUORESCENT CIRCUIT STRIP W/ CWF BALLAST WIRE GUARD 277V	STD.	SURFACE	RUUD/ARE	RLC-240-CF AS-10
M	1-PAR38/CW	1 LAMP 4' FLUORESCENT CIRCUIT STRIP W/ CWF BALLAST 120V	STD.	SURFACE	CROSS	1041-FL-CF
N	2-F40	2 LAMP 4' FLUORESCENT W/ WRAPAROUND ACRYLIC LENS 277V	STD.	SURFACE	RUUD/ARE	RWT-240-4
P	4-F40	4 LAMP 4' FLUORESCENT TROFFER W/ ACRYLIC LENS 277V	STD.	RECESS 2'x2' GRID	RUUD/ARE	RCD-4-240-ACR-4
R	4-F40	4 LAMP 4' FLUORESCENT W/ ACRYLIC WRAPAROUND LENS 277V	STD.	SURFACE	RUUD/ARE	RWT-240-4
S	1-60A23/EL	PICKELPAK EMERGENCY 120V	STD.	SEE (1)	SKYTRON	5220
T	1-MP50/A22	MEDIUM BASE DOWNLIGHT SUITABLE FOR DIMMING 12V	FURN.	SURFACE	PRESCOLITE	4EN-175-BAS
U	1-15PAR38	INCANDESCENT UP LIGHT - VERTICAL 120V	STD.	SURFACE UP LIGHT	PRESCOLITE	5114
V	2-40	INCANDESCENT STEP LIGHT - VERTICAL 120V	STD.	WALL RECESS 4"	PRESCOLITE	5117-2
W	5-W/2350 9	PERIMETER WALL BRACKET W/ EXTERIOR FINISH 120V	SEE NOTE 9 BACK PAGE	SEE 10'	PRESCOLITE	WP-BCA/5-G1/BA1-B
XX	1-PAK5-SD WITH UNIT	EMERGENCY UNIT WITH 2 SEALED BEAM LAMPS 75W EQUIVALENT INVERTER UNIT	STD.	SEE (1)	ELECTRO CONCEPTS	9500/5-9
BB	1-PAK5-SD WITH UNIT	EMERGENCY UNIT WITH 2 SEALED BEAM LAMPS 75W EQUIVALENT INVERTER UNIT	STD.	SEE (1)	ELECTRO CONCEPTS	9500/5-C
X1	1-LED-S WITH UNIT	SINGLE FACED EXIT LIGHT 120V	WHITE ON GREEN	WALL FACE MOUNT	PRESCOLITE	7510-2
X2	1-LED-D WITH UNIT	DOUBLE FACED EXIT LIGHT 120V	WHITE ON GREEN	CEILING MOUNT	PRESCOLITE	7520-2
Y	1-M200/057-9	MERCURY VAPOR DOWNLIGHT FIXTURE FOR DAMP LOCATION 277V	BLACK	8" RECESS	PRESCOLITE	CDC-251/M 746-DL-277
Y1	1-M250/057-9	MERCURY VAPOR BOLLARD FIXTURE FOR DAMP LOCATION 120V	BLACK	18" RECESS	PRESCOLITE	ADC-251/M 744-PL
Y2	1-M75SER/277	MERCURY VAPOR WALL WASHER SURFACE MOUNT FOR DAMP LOCATION 277V	BLACK	10" RECESS	PRESCOLITE	1250-75 M/75S-DL/277
Y3	1-M150/277	MERCURY VAPOR DOWNLIGHT SURFACE FOR DAMP LOCATION 120V	BLACK	10" RECESS	PRESCOLITE	1250-150/M 744-PL



MECH. RM. POWER PLAN


MECH. RM. LIGHTING PLAN

Detail Notes This Sheet

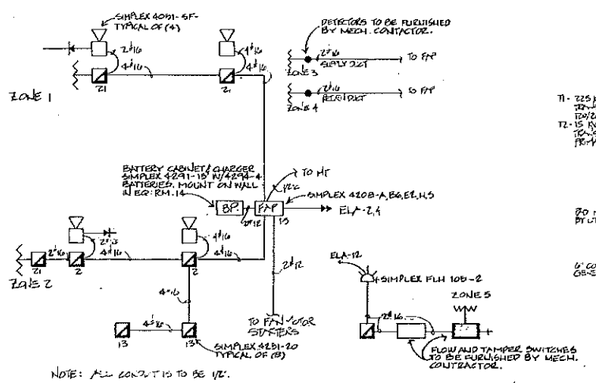
1. VERIFY LOCATION OF ALL ITEMS OF EQUIPMENT PRIOR TO INSTALLATION.
2. INTERCONNECT EMERGENCY FIXTURES MARKED WITH 2'C.
3. INTERCONNECT LIGHTS IN AND AT DOOR STATIONS WITH 2'C. CONNECT UNIT MC AND PB IN SAME CONDUIT.

DESCRIPTION	BREAKER	CIRCUIT		BREAKER	DESCRIPTION
STAGE LIGHTING	20AT	1	2	20AT	STAGE LIGHTING
↓		3	4		↓
↓		5	6		↓
SPARE		7	8		SPARE
STAGE LIGHTING		9	10		STAGE LIGHTING
↓		11	12		↓
HOUSE LIGHTING		13	14		HOUSE LIGHTING
↓		15	16		↓
↓		17	18		↓
↓		19	20		↓
↓		21	22		↓
↓		23	24		↓
↓		25	26		↓
↓		27	28		↓
↓		29	30		↓
↓		31	32		↓
↓		33	34		↓
↓		35	36		↓
SPARE		37	38		SPARE
↓		39	40		↓
↓		41	42		↓
SPACE		43	44		FENCE
↓		45	46		↓
↓		47	48		↓
↓		49	50		↓
↓		51	52		↓
↓		53	54		↓
↓		55	56		↓
↓		57	58		↓
↓		59	60		↓

DIMMING PANEL 'DP'

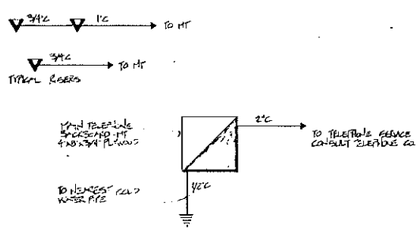
Mechanical Equipment Schedule

⊘	Description	HP	Watts	φ	Volts	Feeder	Breaker	Circuit	Remarks
AC1	AIR CONDITIONER	25		3	460	3#6(4)#10 1"C	70AT/3P	SEE PLANS	INTEGRAL STARTER. PROVIDE W/ 4 SPD THERMOSTAT
AC2	AIR CONDITIONER	1/6		3	460	3#10 1/2"C	40AT/3P		INTEGRAL STARTER. NEMA 1 ENC.
B1	BOILER	2		3	460	3#12 1/2"C	15AT/3P		
CR	CHILLER	10		3	460	3#10 1"C	15AT/3P		
P1	PUMP #1	2		3	460	3#12 1/2"C	15AT/3P		
DW	DISHWASHER	1		3	460	3#10 1"C	15AT/3P		
EF1	EXHAUST FAN	1/2		1	120	2#12 1/2"C	20AT/1P		INTERLOCK WITH LIGHT SWITCH
FC1	FAN COIL	1/3	620	1	120	2#12 1/2"C	20AT/1P		
HD	HEATER		5KW	3	480	3#12 1/2"C	20AT/3P		
P1	PUMP	5		3	480	3#12 1/2"C	15AT/3P		INTERLOCK W/ MOTOR OF THIS PUMP
P2	PUMP	1/2		3	460	3#12 1/2"C	15AT/3P		
P3	PUMP	1/2		1	120	2#12 1/2"C	20AT/1P		
RH	REHEAT AIR	3		3	480	3#12 1/2"C	15AT/3P		
RH2	REHEAT AIR	2		3	480	3#12 1/2"C	15AT/3P		
T1	TOWER FAN	2		3	480	3#12 (4)1/2"C	20AT/3P		
UH1	UNIT HEATER	1/10		1	120	2#12 1/2"C	20AT/1P		LINE VOLTAGE THERMOSTAT
AC1	AIR COMPRESSOR	1/2		1	120	2#12 1/2"C	20AT/1P		
FC2	FAN COIL	1/4		1	120	2#12 1/2"C	20AT/1P		
P4	CONDENSATION PUMP	1/2		1	120	2#12 1/2"C	20AT/1P		

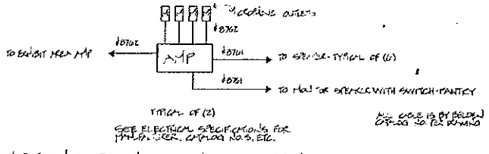


NOTE: ALL CONDUIT IS TO BE 1/2".

Fire Alarm One-Line Diagram



Telephone One-Line Diagram



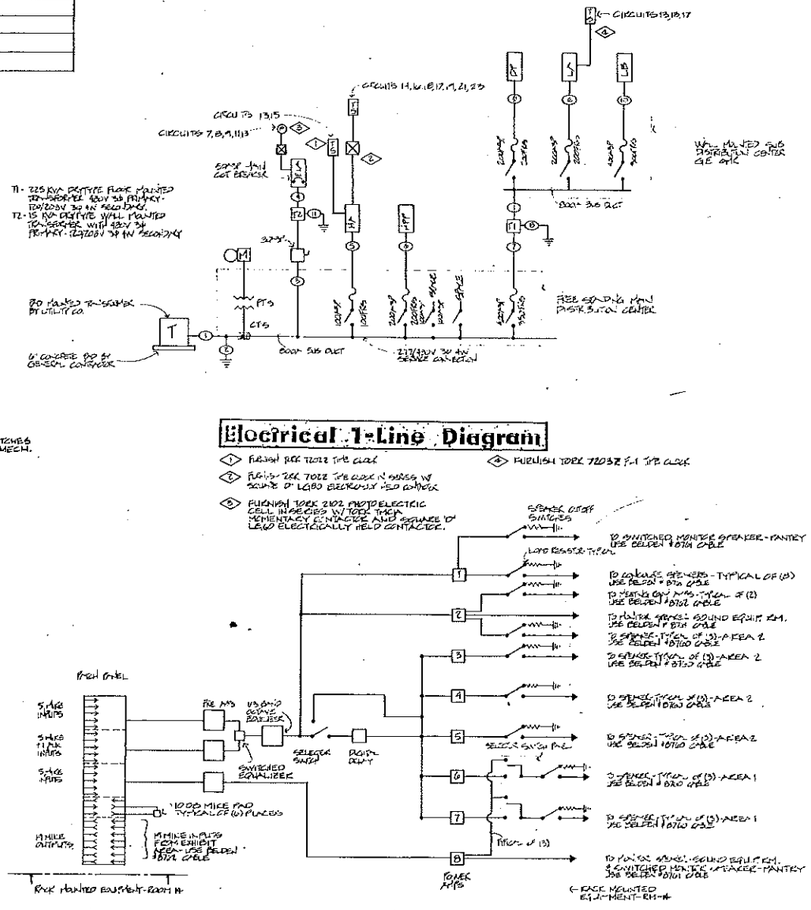
MEETING ROOM SOUND SYSTEM ONE-LINE DIAGRAM

Panelboard Schedule

Panel	Active Circuits	Spares	Max No. Poles	Volts	φ	Wire	MLO	Mounting	Demand (kw)	Type
DP	34-20AT	5-20AT	60	120/208	3	4	200AT	SEE SCHEDULE	34	LIGHTING/APPL. BD.
LA	27-20AT, 2-20A2P	11-20AT	72	120/208	3	4	100AT	FLUSH	55.1	GEN. PURP. TWO SECTION
LB	18-20AT	2-20A2P	60	120/208	3	4	100AT	FLUSH	37.5	DISTRIB.
ELA	13-20AT	5-20AT	18	120/208	3	4	50AT	SURFACE	10.2	EMERG.
HA	16-20AT	5-20AT	24	277/480	3	4	100AT	SURFACE	33.5	DISTRIB.
HP	13-15A3P, 12-20A3P, 1-60A3P, 1-40A3P, 1-20A3P	1-15A3P	60	277/480	3	4	200AT	SURFACE	112.7	MAIN

Feeder Schedule

1. 3(4-500MCM (AL) 3#2G), 1 3/4"C W/FULL WIRE
2. 1 1/4"C
3. 3#10 3/4"C
4. 4#6 1"C
5. 4#1 (AL) 1 1/4"C
6. 4-250MCM (AL) 2 1/2"C
7. 2-(3#10 (AL) 2"C)
8. 1#10 3/4"C
9. NOT USED
10. 4-500MCM (AL) 3 1/2"C
11. 1#6 3/4"C



Electrical 1-Line Diagram

1. FURNISH PER 7202 TYP CLOCK
2. FURNISH PER 7202 TYP CLOCK W/ ACCESS W/ SCOPE OF LOAD ELECTRICALLY HELD CONTACTS
3. FURNISH 3025-202 PHOTO ELECTRIC CELL INTERFACED W/ 7202 TYP MOMENTARY ENERGIZE AND ASSURE OF LOAD ELECTRICALLY HELD CONTACTS.
4. FURNISH PER 7202 TYP CLOCK

EXHIBIT SOUND SYSTEM ONE-LINE DIAGRAM

NOTES:
- SEE ELECTRICAL SPECIFICATIONS FOR MANUFACTURER, ETC.
- AREA 1 IS THE SMALLER EXHIBIT AREA WHEN CONVERTED
- ALL CONDUIT TO BE 3/4".

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1 PLAZA LEVEL FRAMING PLAN
SCALE 1/8" = 1'-0"

NOTES: 1. SEE SHT. S7 FOR JOIST & BEAM SCHEDULE
2. SEE SHT. S7 FOR CONC. COLUMN REINF.
3. SEE SHT. S9 FOR PRECAST TILT-UP WALLS
4. SEE ARCH. DWGS. FOR HANDRAIL & STAIR DETAILS.

NORTH

2 JOINT DETAIL
SCALE 1/2" = 1'-0"

TYPICAL KEY EACH JOIST AT CONSTRUCTION JOINT.

3 SECTION
SCALE 1" = 1'-0"

SLAB EDGE DETAIL

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ROOF FRAMING PLANS

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1 ROOF AND MECHANICAL FLOOR FRAMING PLAN

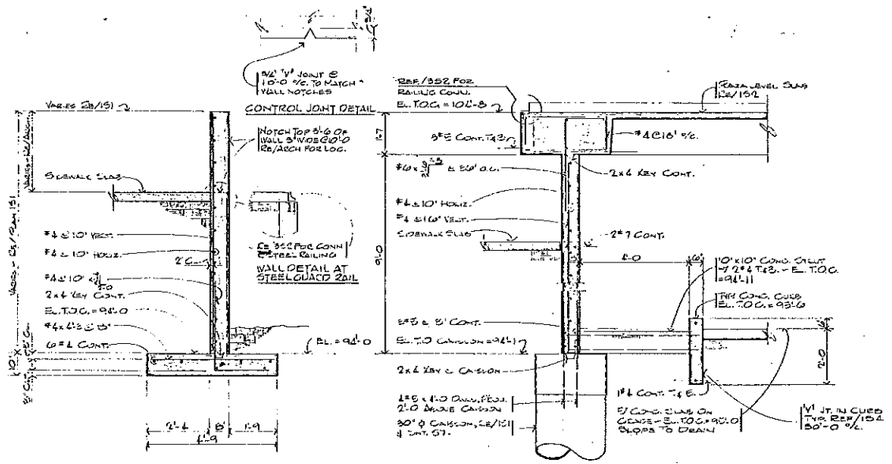
1/8" = 1'-0"

Notes: 1. Elev. Top of Steel Beams Shown On Plan Thus: (111-6).
2. See Sht. 55 for Roof Top Equipment.

2 MECHANICAL ROOM ROOF FRAMING PLAN

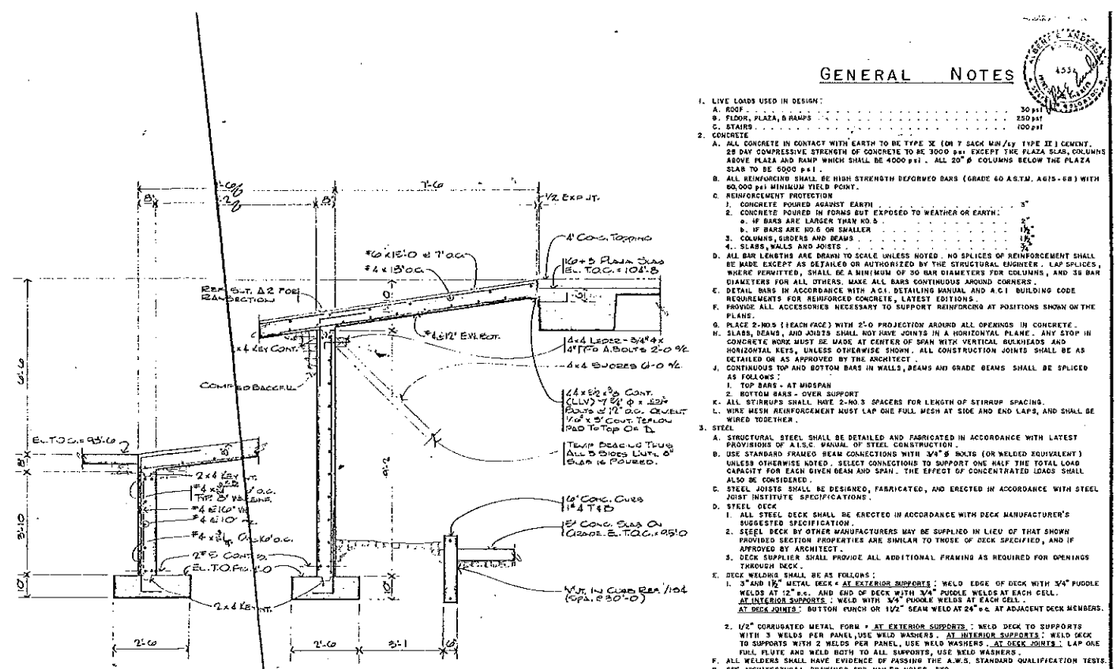
1/8" = 1'-0"

See Sht. 55



1 SECTION
SCALE 1/2" = 1'-0
CE/

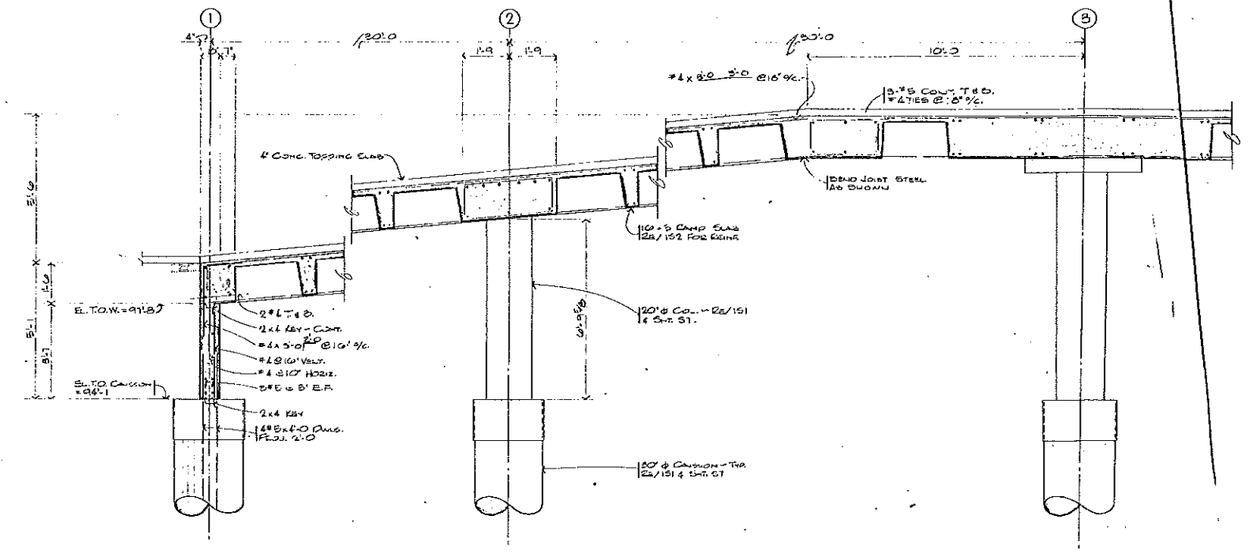
2 SECTION
SCALE 1/2" = 1'-0
CE/



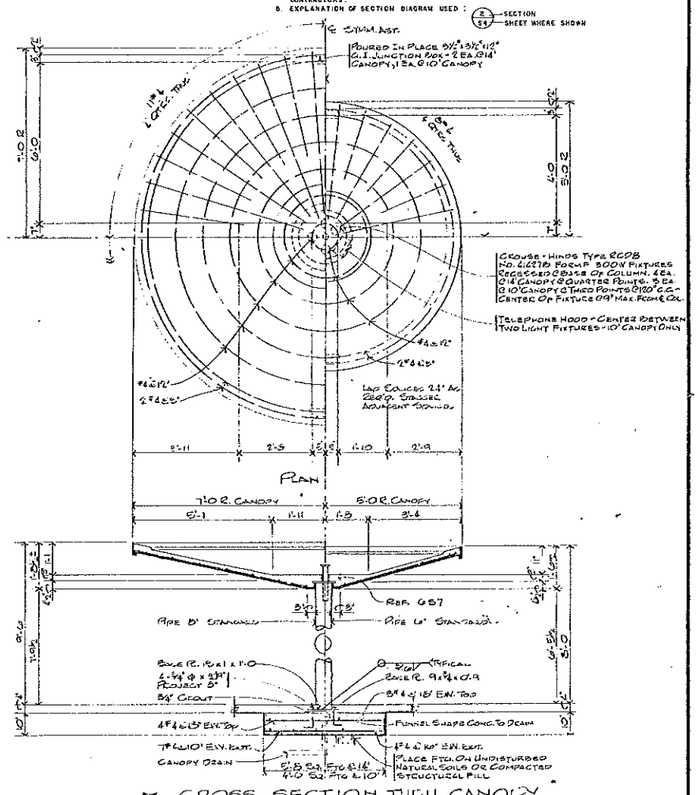
3 SECTION THRU SOUTH RAMP
SCALE 1/2" = 1'-0
CE/

GENERAL NOTES

1. LIVE LOADS USED IN DESIGN:
   - A. ROOF . . . . . 30 psf
   - B. FLOOR, PLAZA, & RAMPS . . . . . 250 psf
   - C. STAIRS . . . . . 100 psf
2. CONCRETE
   - A. ALL CONCRETE IN CONTACT WITH EARTH TO BE TYPE 'A' (OR 7 SACK MIN/cy. TYPE II) CEMENT. 28 DAY COMPRESSIVE STRENGTH OF CONCRETE TO BE 3000 psi EXCEPT THE PLAZA SLAB, COLUMNS ABOVE PLAZA AND RAMP WHICH SHALL BE 4000 psi. ALL 20" ø COLUMNS BELOW THE PLAZA SLAB TO BE 5000 psi.
   - B. ALL REINFORCING SHALL BE HIGH STRENGTH DEFORMED BARS (GRADE 60 A.S.T.M. A615-68) WITH 60,000 psi MINIMUM YIELD POINT.
   - C. REINFORCEMENT PROTECTION
     1. CONCRETE POURED AGAINST EARTH . . . . . 3"
     2. CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH:
        - a. IF BARS ARE LARGER THAN NO.5 . . . . . 2"
        - b. IF BARS ARE NO.6 OR SMALLER . . . . . 1½"
     3. COLUMNS, GIRDERS AND BEAMS . . . . . 1½"
     4. SLABS, WALLS AND JOISTS . . . . . ¾"
   - D. ALL BAR LENGTHS ARE DRAWN TO SCALE UNLESS NOTED. NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF 30 BAR DIAMETERS FOR COLUMNS, AND 38 BAR DIAMETERS FOR ALL OTHERS. MAKE ALL BARS CONTINUOUS AROUND CORNERS.
   - E. DETAIL BARS IN ACCORDANCE WITH A.C.I. DETAILING MANUAL AND A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITIONS.
   - F. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS.
   - G. PLACE 2-NO.5 (EACH FACE) WITH 5'-0 PROJECTION AROUND ALL OPENINGS IN CONCRETE.
   - H. SLABS, BEAMS, AND JOISTS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT CENTER OF SPAN WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE ARCHITECT.
   - J. CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS AND GRADE BEAMS SHALL BE SPLICED AS FOLLOWS:
     1. TOP BARS - AT MIDSPAN
     2. BOTTOM BARS - OVER SUPPORT
   - K. ALL STIRRUPS SHALL HAVE 2-NO.3 SPACERS FOR LENGTH OF STIRRUP SPACING.
   - L. WIRE MESH REINFORCEMENT MUST LAP ONE FULL MESH AT SIDE AND END LAPS, AND SHALL BE WIRED TOGETHER.
3. STEEL
   - A. STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISIONS OF A.I.S.C. MANUAL OF STEEL CONSTRUCTION.
   - B. USE STANDARD FRAMED BEAM CONNECTIONS WITH 3/4" ø BOLTS (OR WELDED EQUIVALENT) UNLESS OTHERWISE NOTED. SELECT CONNECTIONS TO SUPPORT ONE HALF THE TOTAL LOAD CAPACITY FOR EACH GIVEN BEAM AND SPAN. THE EFFECT OF CONCENTRATED LOADS SHALL ALSO BE CONSIDERED.
   - D. STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS.
   - D. STEEL DECK
     1. ALL STEEL DECK SHALL BE ERECTED IN ACCORDANCE WITH DECK MANUFACTURER'S SUGGESTED SPECIFICATION.
     2. STEEL DECK BY OTHER MANUFACTURERS MAY BE SUPPLIED IN LIEU OF THAT SHOWN PROVIDED SECTION PROPERTIES ARE SIMILAR TO THOSE OF DECK SPECIFIED, AND IF APPROVED BY ARCHITECT.
     3. DECK SUPPLIER SHALL PROVIDE ALL ADDITIONAL FRAMING AS REQUIRED FOR OPENINGS THROUGH DECK.
   - E. DECK WELDING SHALL BE AS FOLLOWS:
     1. 3" AND 1½" METAL DECK - AT EXTERIOR SUPPORTS: WELD EDGE OF DECK WITH 3/4" PUDDLE WELDS AT 12" o.c. AND END OF DECK WITH 3/4" PUDDLE WELDS AT EACH CELL. AT INTERIOR SUPPORTS: WELD WITH 3/4" PUDDLE WELDS AT EACH CELL. AT DECK JOINTS: BUTTON PUNCH OR 1½" SEAM WELD AT 24" o.c. AT ADJACENT DECK MEMBERS.
     2. 1½" CORRUGATED METAL FORM - AT EXTERIOR SUPPORTS: WELD DECK TO SUPPORTS WITH 3 WELDS PER PANEL, USE WELD WASHERS. AT INTERIOR SUPPORTS: WELD DECK TO SUPPORTS WITH 2 WELDS PER PANEL, USE WELD WASHERS. AT DECK JOINTS: LAP ONE FULL FLUTE AND WELD BOTH TO ALL SUPPORTS, USE WELD WASHERS.
   - F. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE A.W.S. STANDARD QUALIFICATION TESTS.
   - G. SEE ARCHITECTURAL DRAWINGS FOR SKYLIGHT HOLES, ETC.
4. FOUNDATIONS
   - A. PIPE PILES DESIGN BASED ON 150 k/PILE CAPACITY, DRIVEN TO REFUSAL. FILL WITH CONCRETE. NO PILE TO BE DRIVEN WITHIN 5 FT. OF A PILE FILLED WITH CONCRETE LESS THAN 24 HOURS OLD. REF. TO SPECIFICATIONS FOR MINIMUM PILE DRIVING ENERGY REQUIRED.
   - B. DRILLED CAISSON FOUNDATIONS
     - a. MAXIMUM CAISSON END BEARING PRESSURE USED IN DESIGN: 50,000 psf.
     - b. MAXIMUM CAISSON SIDE SHEAR FOR LENGTH OF PENETRATION INTO BEDROCK USED IN DESIGN: 5000 psf.
5. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL.
6. ARCHITECTS APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS.
7. VERIFY ALL OPENINGS THROUGH FLOOR AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
8. EXPLANATION OF SECTION DIAGRAM USED: (2/S4) — 2 = SECTION, S4 = SHEET WHERE SHOWN



4 SECTION THRU EAST RAMP
SCALE 1/2" = 1'-0
CE/



5 CROSS SECTION THRU CANOPY
SCALE 1/2" = 1'-0

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VAN DEUSEN & PORTER ARCHITECTS & PLANNERS
grand junction, colorado

REVISIONS

STATE OF COLORADO — REGISTERED ARCHITECT

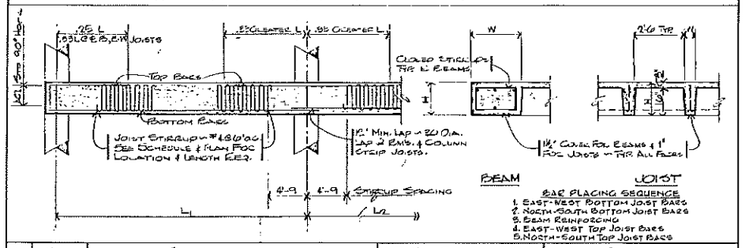
MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

project no. 469
drawn by. EG

sheet
SECTIONS - FDN., RAMP, AND CANOPY

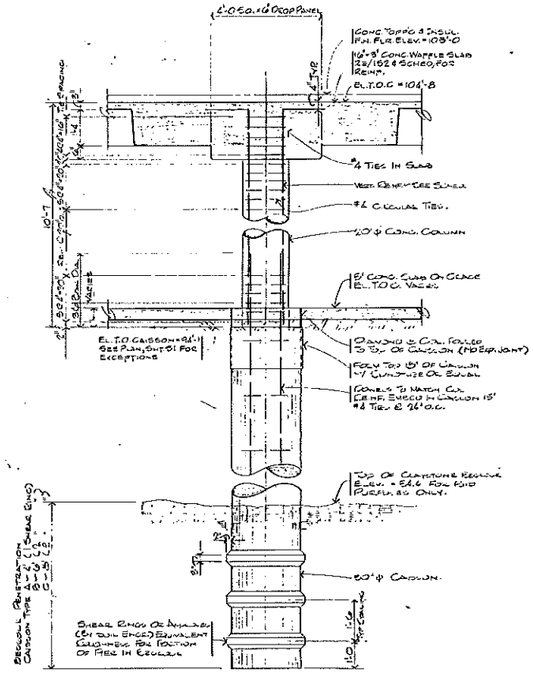
no.

BEAM AND JOIST SCHEDULE



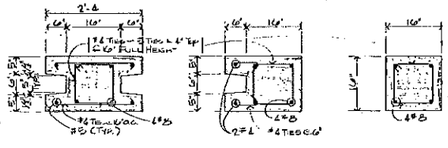
BAR PLACING SEQUENCE
1. East-West Bottom Joist Bars
2. North-South Bottom Joist Bars
3. Beam Reinforcing
4. East-West Top Joist Bars
5. North-South Top Joist Bars

Mark	Size W	Size H	Continuous Top L	Continuous Bot.	Top R.	Spacing Of #4 Stirrups	N.C.S. Sketch S.O.M. Type Of Supports	Remarks
J1	6	19	2#13 1#11	2#11	2#10 1#11	See Plan Sht. S2 for Length and Location		
J2				2#9	2#9 1#11			
J3				2#10	2#10			
J4			1#9	1#11	1#9			
J5				1#8	1#9			
J6				1#7	1#8			
J7			5#10	2#9	2#11			
J8				2#10	2#11			
J9				2#11	2#10 1#11			
J10			2#10	2#10	1#8			
J11				2#10	2#9 1#10			
J12				2#10	2#10			
J13			2#10 1#11	2#11	5#11			
J14				2#10	1#10 2#11			Join Conn. Top Bars & Cantilever
J15				2#11	2#10 1#11			
J16			2#10	2#10	2#9 1#10			
J17			2#8	2#9	1#8			
J18			5#11	2#11	2#9		E. 1#8	
J19			1#10 2#11	2#10	1#10 2#11			
J20			2#10 1#9	2#11	2#10 1#9			
J21			2#9	2#10	2#9			
J22				2#9	5#9			
J23				2#8	1#10			
J24				2#7	5#10			
J25				1#8	1#9			
J26				1#9	2#10			
J27				2#8	1#10			
J28			1#10	2#11	1#10			
J29				2#10	2#9 1#11			
J30				2#8	2#10		C12"x12"-0	Top & Bottom Bars Bent to Ramp Slope, See 4/S6
J31				2#10	2#8		C12"x16"-0	
J32			1#8	1#8	1#8			
J33	6	19	1#5	1#5				
Z1	29	19	6#9	5#9 4#7	6#11	10@2", 10@4", 5@6", 10@8", 16@12"		From 1C#8 Stirrups & 2'-8" Cantilever
Z2	29	19		7#9 5#7	6#11	do		
Z3	29	19		7#9 4#7	6#9	do		From 1C#8 & Stirrups & 1'-6" Cantilever
Z4	42	19	5#11 5#10	6#11	7#11 5#10	10@4" 5@6" 10@8"		
Z5	21	19		4#9	4#11	6@4"		
Z6	21	19		5#9	5#6	6@12"		
Z7	42	19	5#8	4#8		3@8"	C Support	1st Stirrup 3" From Col. Face

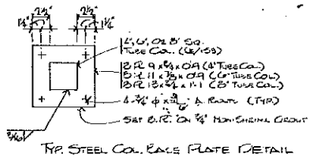


1 SECTION - TYPICAL CAISSON & COLUMN
SCALE: 1/2" = 1'-0
Ref. S1
(Note: Caisson Foundation is a Contractor's Alternate to the Pile Foundation.)

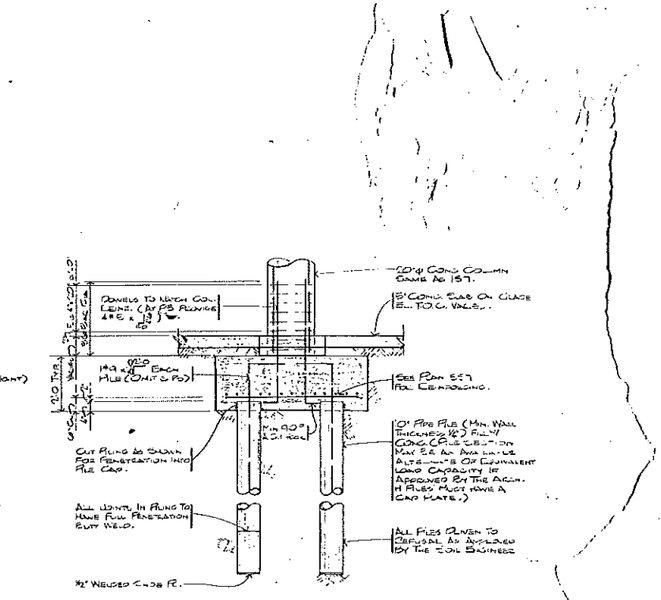
Column Schedule	
Type	Vert. Reinforcing
C1	6#8
C2	6#10
C3	8#10
C4	9#11
C5	11#11
C6	12#11
C7	16#11



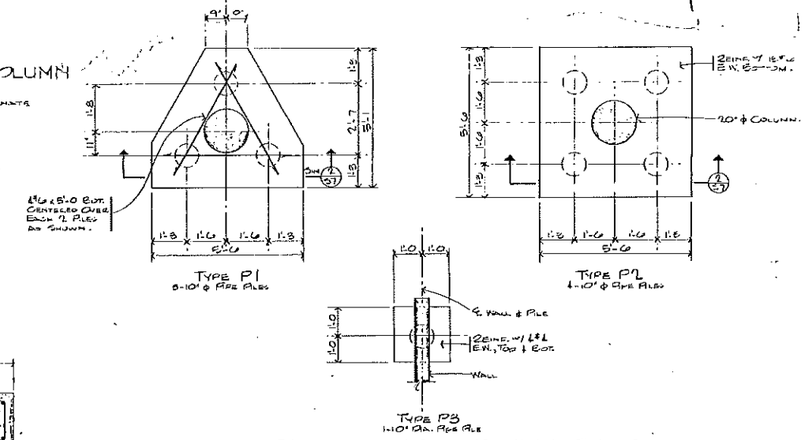
4 UPPER LEVEL COLUMNS
SCALE: 3/4" = 1'-0



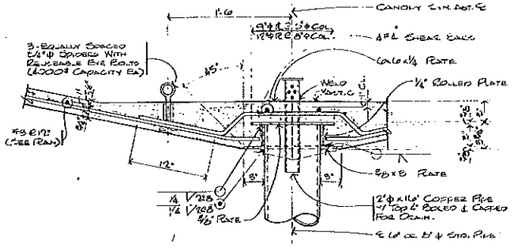
5 PLAN SECTION
No Scale
Ref. S5



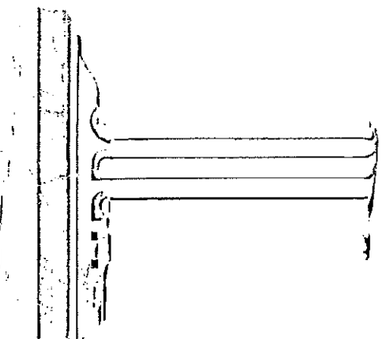
2 TYPICAL PILE DETAIL
SCALE: 1/2" = 1'-0
Ref. S1



3 PILE SUPPORTED FOOTING PLANS
SCALE: 1/4" = 1'-0
Ref. S7



6 CANOPY TOP DETAIL
SCALE: 3/4" = 1'-0
Ref. S8 & S2C



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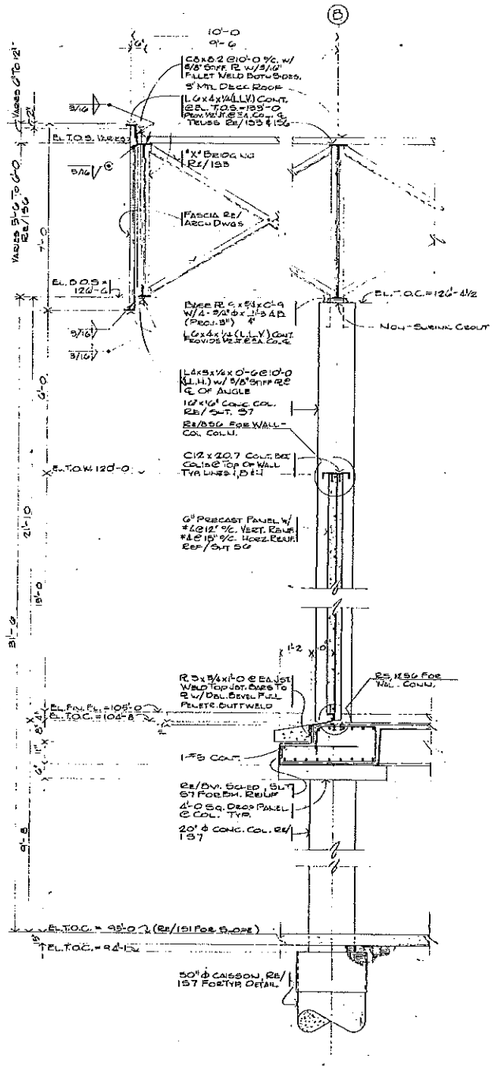
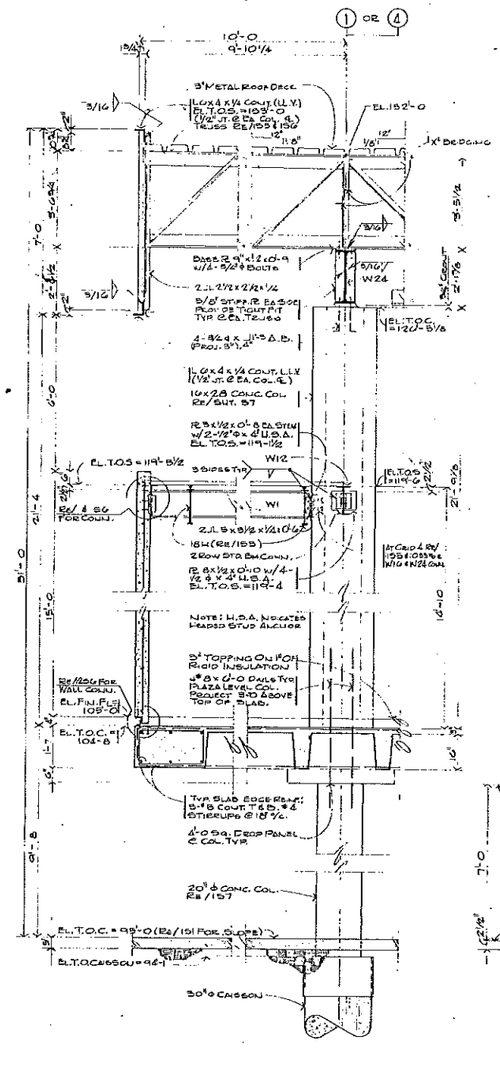


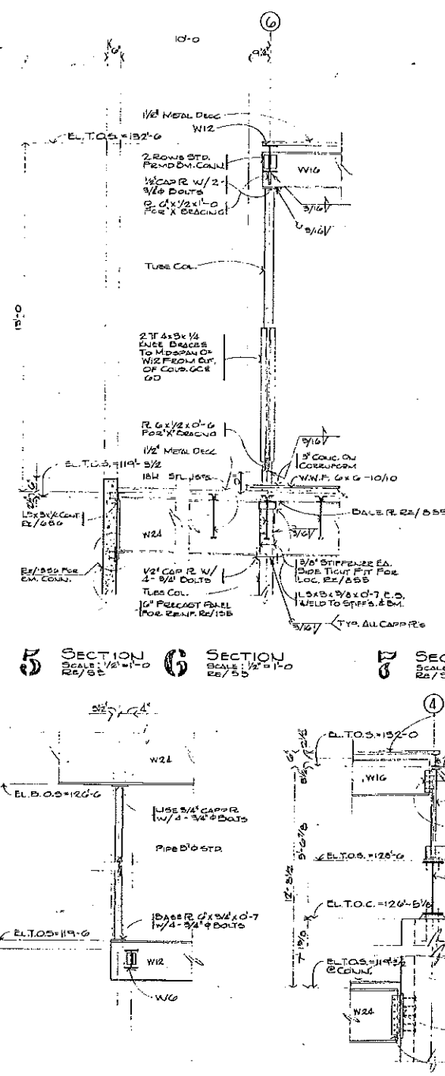
1 SECTION
SCALE: 1/2" = 1'-0
EE/51, 52, & 55

2 SECTION
SCALE: 1/2" = 1'-0
EE/51, 52, & 55



3 SECTION
SCALE: 1/2" = 1'-0
EE/51, 52 & 55

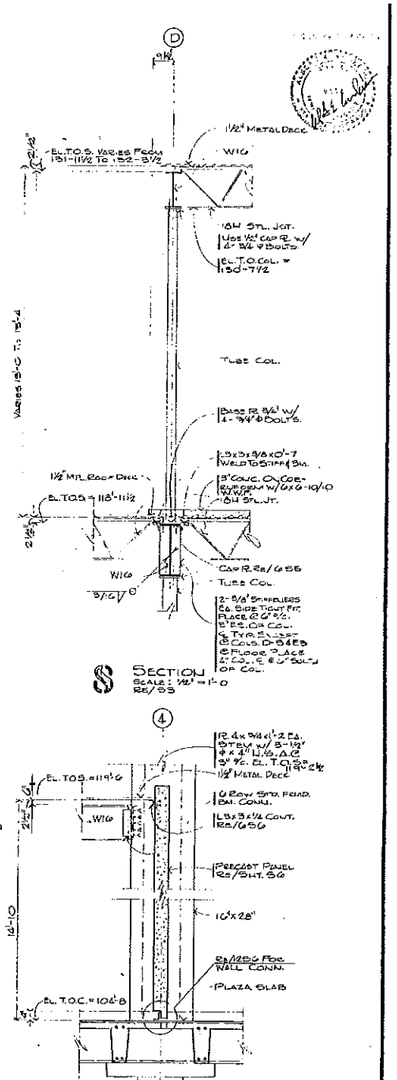
4 SECTION
SCALE: 1/2" = 1'-0
EE/51, 52 & 55



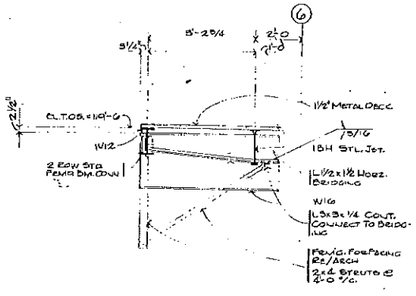
5 SECTION
SCALE: 1/2" = 1'-0
EE/52

6 SECTION
SCALE: 1/2" = 1'-0
EE/55

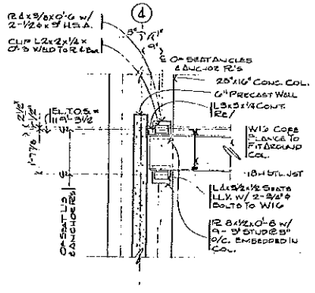
7 SECTION
SCALE: 1/2" = 1'-0
EE/55



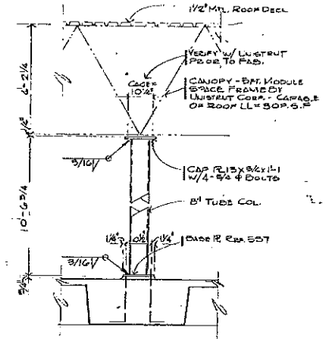
8 SECTION
SCALE: 1/2" = 1'-0
EE/53



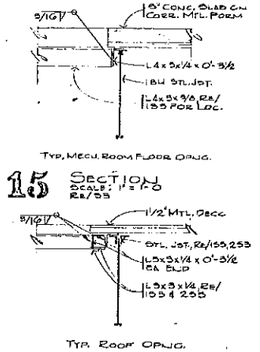
12 SECTION
SCALE: 1/2" = 1'-0
EE/55



13 SECTION
SCALE: 1/2" = 1'-0
EE/55

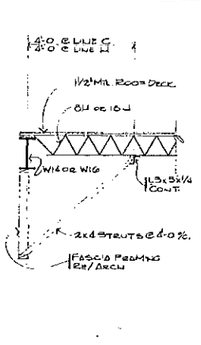


14 SECTION
SCALE: 1/2" = 1'-0
EE/52 & 55



15 SECTION
SCALE: 1" = 1'-0
EE/53

16 SECTION
SCALE: 1" = 1'-0
EE/53



17 SECTION
SCALE: 1/2" = 1'-0
EE/55

11 SECTION
SCALE: 1/2" = 1'-0
EE/52 & 55

09105935.TIF

VAN DEUSE / PORTER ARCHITECTS / PLANNERS
grand junction, colorado

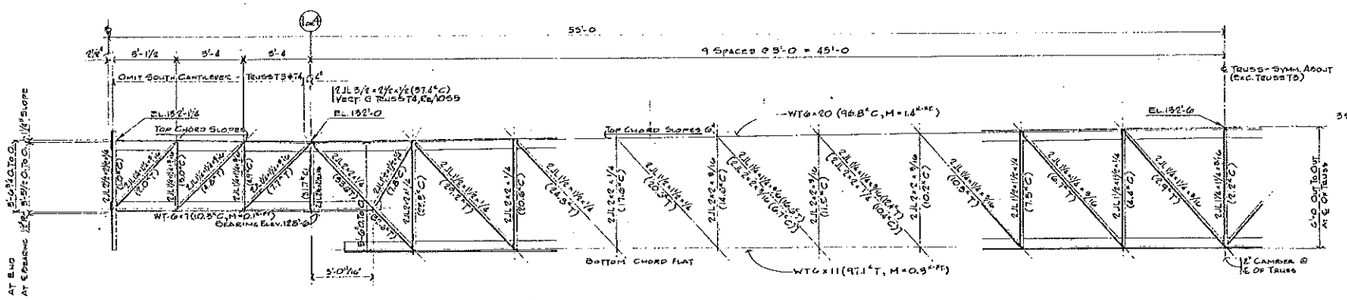
REVISIONS

MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

project no.
drawn by.

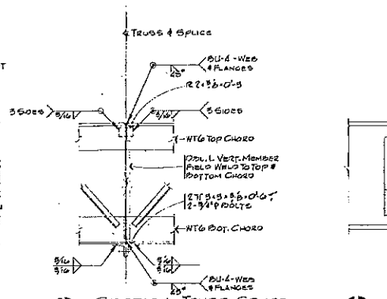
sheet
FULL HEIG AND MISC ROOF SEC

no.
S

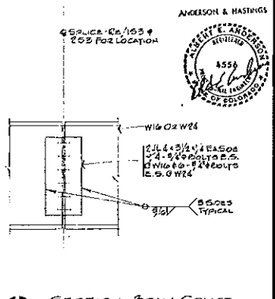


1 ELEVATION - ROOF TRUSS T1 (TRUSS T2,T3&T4 SIMILAR)
3/8" = 1'-0"
Re/155, 256

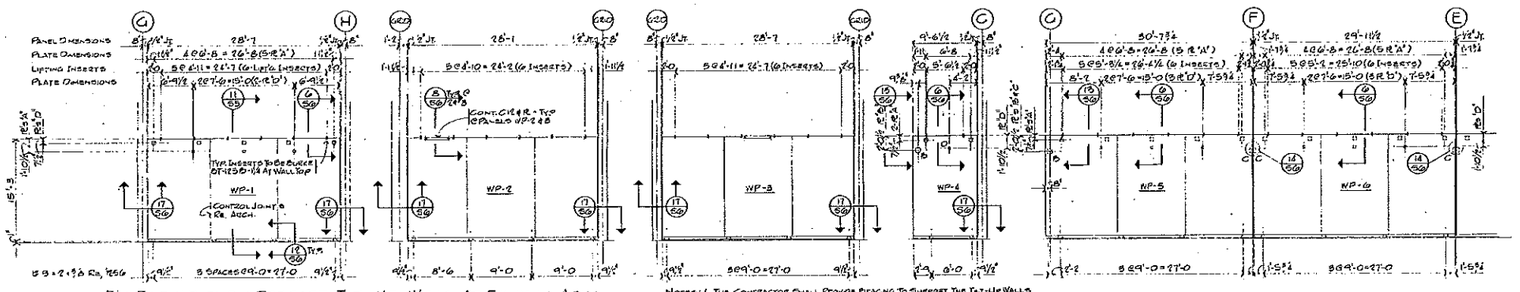
NOTES: 1. MEMBER SIZES ARE SHOWN FOR TRUSS T1. MINIMUM SIZES FOR TRUSS T2 ARE THE SAME AS TRUSS T1 EXCEPT AS SHOWN THUS: (----).
2. ALL CONNECTIONS SHALL DEVELOP THE DESIGN LOADS SHOWN THUS (---) OR 50% OF THE MEMBER CAPACITY, WHICHEVER IS GREATER.
3. THE TOP & BOTTOM CHORDS SHALL BE FABRICATED FROM ASTM-A441 STEEL & ALL OTHER MEMBERS FROM ASTM-A36 STEEL.



2 SECTION - TRUSS SPLICE
1" = 1'-0"
Re/156



3 SECTION - BEAM SPLICE
1" = 1'-0"
Re/155, 255

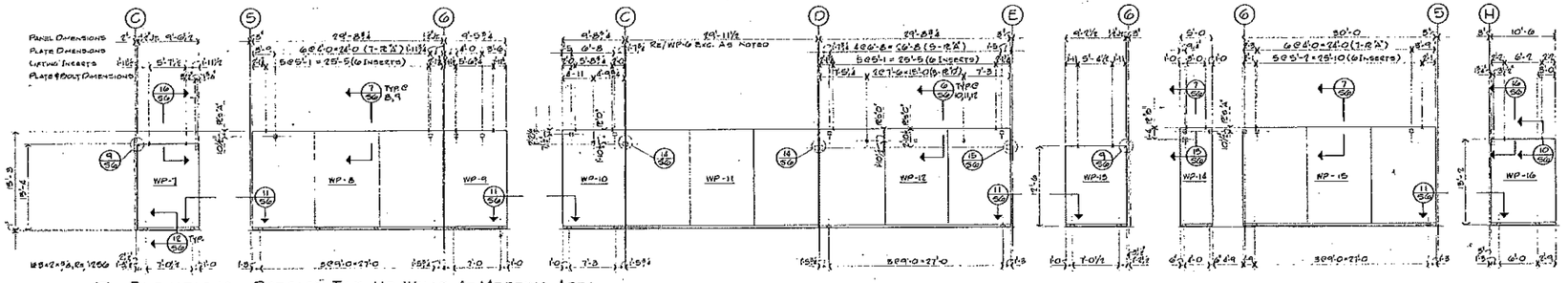


4 ELEVATIONS - PRECAST TILT-UP WALLS AT EXHIBIT AREA
1/8" = 1'-0"
Re/195, ARCH.

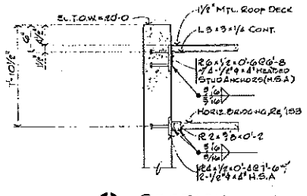
NOTES: 1. THE CONTRACTOR SHALL PROVIDE BRACING TO SUPPORT THE TILT-UP WALLS UNTIL THEY ARE CONNECTED TO THE STRUCTURE AS DETAILED ABOVE FROM TOP OF WALL.
2. REINFORCING ALL WALLS WITH #4 @ 12" VERT. & #4 @ 18" HORIZ., Re/DRWG. 255.
3. SEE PLAN, SHT. 02 FOR PANEL LOCATIONS.

PLATE SCHEDULE	
A	R 6 x 1/2 x 0'-6
B	R 5 x 1/2 x 1'-0"
C	R 4 x 1/2 x 0'-8
D	R 4 x 1/2 x 0'-6

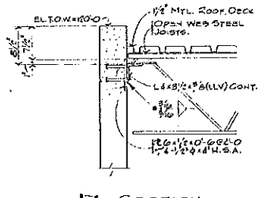
NOTES: 1. PLATE LOCATIONS ARE SHOWN ON WALL ELEVS.
2. SEE DETAILS THIS SHT. FOR ROOF DETAILS.



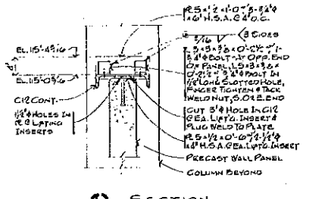
5 ELEVATIONS - PRECAST TILT-UP WALLS AT MEETING AREA
1/8" = 1'-0"
Re/195, ARCH.



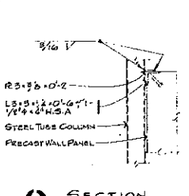
6 SECTION
1" = 1'-0"
Re/250, 256



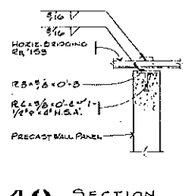
7 SECTION
1" = 1'-0"
Re/200, 256



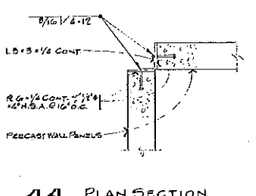
8 SECTION
1" = 1'-0"
Re/256



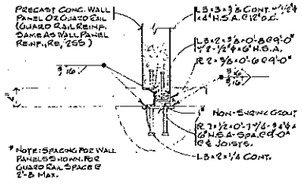
9 SECTION
1" = 1'-0"
Re/256



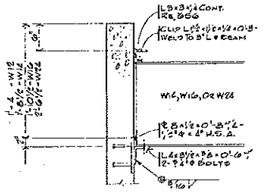
10 SECTION
1" = 1'-0"
Re/256



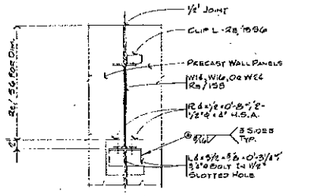
11 PLAN SECTION
1" = 1'-0"
Re/256



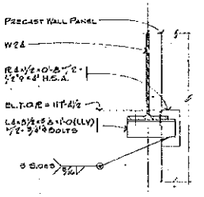
12 SECTION
1" = 1'-0"
Re/250, 256



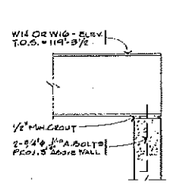
13 SECTION
NO SCALE
Re/200, 256



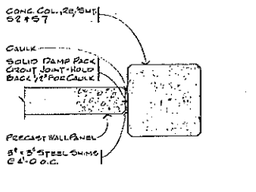
14 SECTION
NO SCALE
Re/250, 256



15 SECTION
1" = 1'-0"
Re/256



16 SECTION
1" = 1'-0"
Re/256



17 PLAN SECTION
1" = 1'-0"
Re/256

09105936.TIF

VAN DEUSEN / PORTER ARCHITECTS / PLANNERS
grand junction, colorado

REVISIONS

ANDERSON & HASTINGS

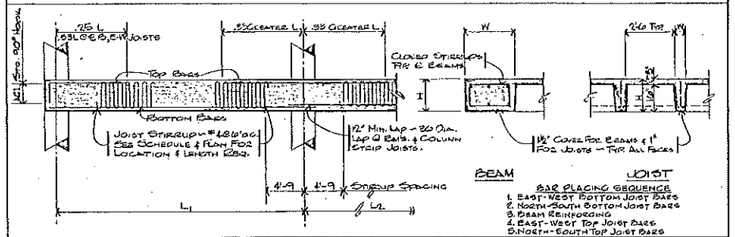
MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

project no. 489
drawn by. RS

sheet
TRUSS AND PRECAST WALL ELEV. AND DETAILS

no.
S6

BEAM AND JOIST SCHEDULE

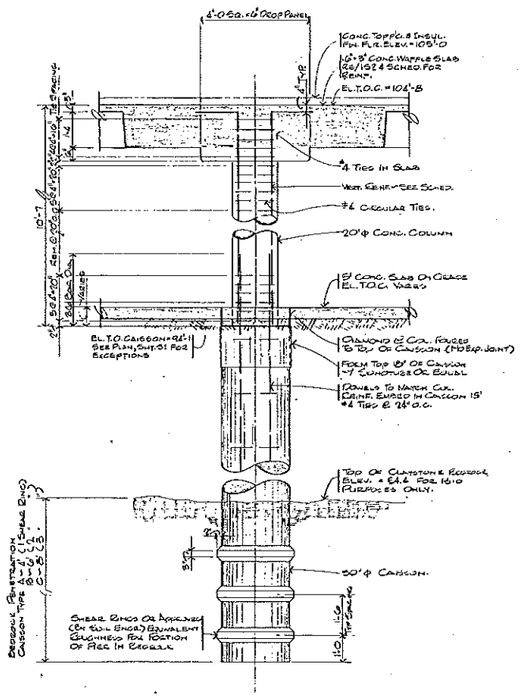


BEAM JOIST

BAR PLACING SEQUENCE

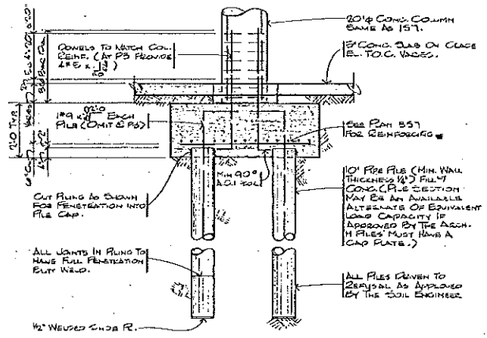
1. EAST-WEST BOTTOM JOIST BARS
2. NORTH-SOUTH BOTTOM JOIST BARS
3. BEAM REINFORCING
4. EAST-WEST TOP JOIST BARS
5. NORTH-SOUTH TOP JOIST BARS

MARK	SIZE W	SIZE H	REINFORCING Top L.	Bott.	Top R.	Spacing Of #4 Stirrups	N.O.S. Sketch E.O.H. # Of Supports	Remarks
J1	6	10	2#10 1#11	2#11	2#10 1#11	See Plan Sht. S2 For Length And Location		
J2	↑	↑		2#9	2#9 1#11			
J3				2#10	2#10			
J4			1#9	1#11	1#9			
J5				1#8	1#8			
J6				2#7	2#8			
J7			3#10	2#9	2#11			
J8				2#10	2#11			
J9				2#9	2#10 1#11			
J10			2#10	2#6	1#8			
J11				2#10	2#9 1#10			
J12				2#6	2#10			
J13			2#10 1#11	2#11	3#11			
J14				2#10	1#10 2#11			TURN DOWN TOP FLGES @ CANTILEVER
J15				2#11	2#10 1#11			
J16			2#10	2#10	2#9 1#10			
J17			2#8	2#7	1#8			
J18			3#11	2#11	2#9		C.I.P.S.	
J19			1#10 2#11	2#10	1#10 2#11			
J20			2#10 1#9	2#11	2#10 1#9			
J21			2#9	2#10	2#9			
J22				2#9	3#9			
J23				2#5	1#6			
J24				2#9	3#10			
J25				1#8	1#9			
J26				1#9	2#6			
J27				2#5	1#6			
J28			1#6	2#11	1#6			
J29				2#10	2#9 1#11			
J30				2#8	2#10		C.I.P.S.x12'-0	TOP & BOTTOM BARS BENT TO RAMP SLOPE, SEE/S4
J31				2#10	2#5		C.I.P.S.x11'-6	
J32	↓	↓	1#8	1#8	1#8			
J33	6	19	1#5	1#5				
B1	29	19	6#9	5#9 4#7	6#11	16@2',10@4'	35' 105',165'	PROV. 4#8 STIRRUPS @ 2'-0 CANTILEVER
B2	29	19		4#9 3#7	6#11	40		
B3	29	19		5#9 4#7	6#9	40		PROV. 4#8 STIRRUPS @ 2'-0 CANTILEVER
B4	42	19	5#11 3#10	6#11	5#11 3#10	10@4'	65' 102'	
B5	21	19		4#9	4#11	64@4'		
B6	21	19		5#9	3#6	62@4'		
B7	42	19	8#8	6#8		58@4'		1st STIRRUP @ 2" FROM COL. FACE

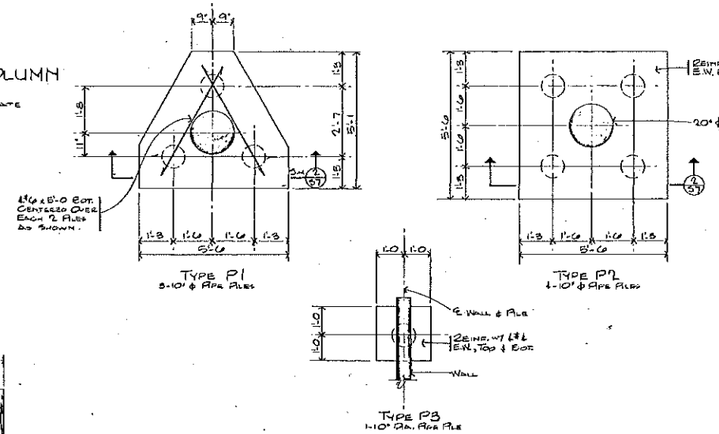


1 SECTION - TYPICAL CAISSON & COLUMN
SCALE: ½" = 1'-0
Re/151
(NOTE: CAISSON FOUNDATION IS A CONTRACTOR'S ALTERNATE TO THE PILE FOUNDATION.)

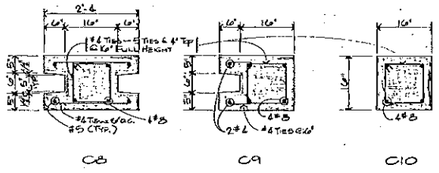
COLUMN SCHEDULE	
TYPE	VERT. REINFORCING
C1	6#8
C2	6#10
C3	8#10
C4	9#11
C5	11#11
C6	12#11
C7	18#11



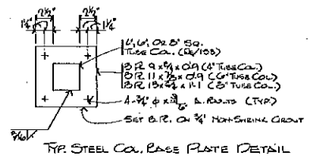
2 TYPICAL PILE DETAIL
SCALE: ½" = 1'-0
Re/151



3 PILE SUPPORTED FOOTING PLANS
SCALE: ½" = 1'-0
Re/S57

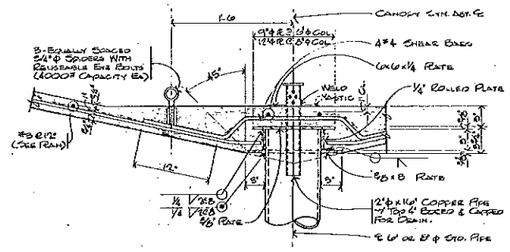


4 UPPER LEVEL COLUMNS
SCALE: ½" = 1'-0



Typ. Steel Col. Base Plate Detail

5 PLAN SECTION
No Scale
Re/153



6 CANOPY TOP DETAIL
SCALE: 1½" = 1'-0
Re/S54, 32CH

09105937.TIF

ANDERSON & MATTING
ROBERT E. ANDERSON
REGISTERED
43561
PROFESSIONAL ENGINEER

VAN DEUSEN / PORTER ARCHITECTS / PLANNERS
grand junction, colorado

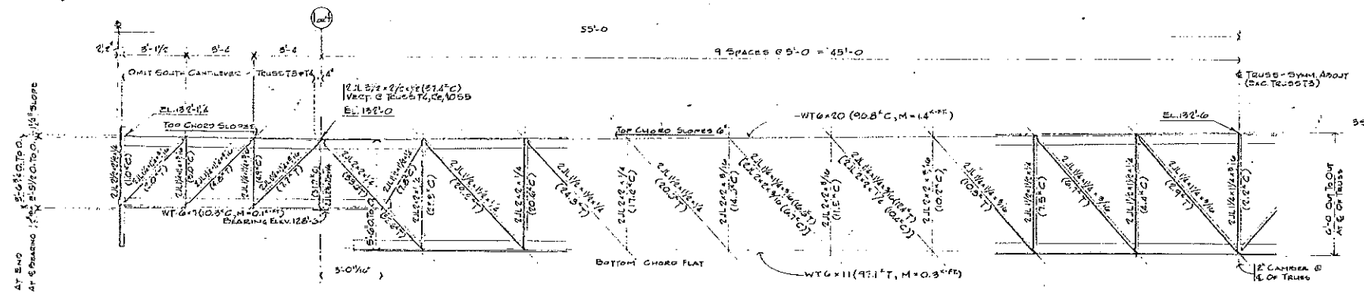
REVISIONS

MULTI-PURPOSE BUILDING
GRAND JUNCTION, COLORADO

project no. 489
drawn by. E.S.

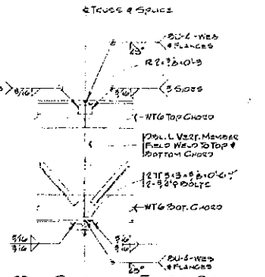
sheet SCHEDULES AND MISC. DETAILS.

no. S7

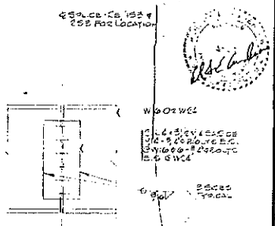


1 ELEVATION - ROOF TRUSS T1 (TRUSS T2,T3&T4 SIMILAR)
3/8" = 1'-0"
Ga/155,156

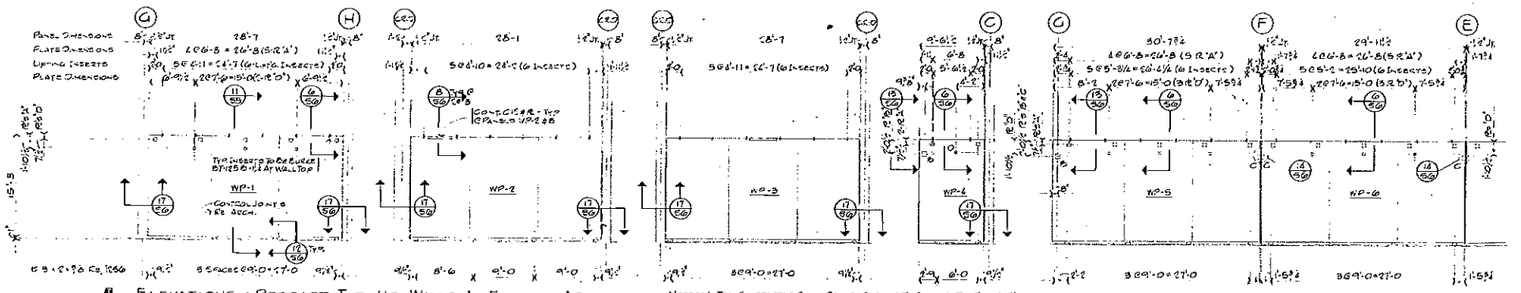
NOTES: 1. MEMBER SIZES ARE SHOWN FOR TRUSS T1. MEMBER SIZES FOR TRUSS T2 ARE THE SAME AS TRUSS T1 EXCEPT AS SHOWN THUS: (---)
2. ALL CONNECTIONS SHALL DEVELOP THE DESIGN LOADS SHOWN THUS: (***) OR 50% OF THE MEMBER CAPACITY, WHICHEVER IS GREATER.
3. THE TOP & BOTTOM CHORDS SHALL BE FABRICATED FROM ASTM-A441 STEEL & ALL OTHER MEMBERS FROM ASTM-A36 STEEL.



2 SECTION - TRUSS SPLICE
1" = 1'-0"
Ce/156



3 SECTION - BEAM SPLICE
Ce/155,156



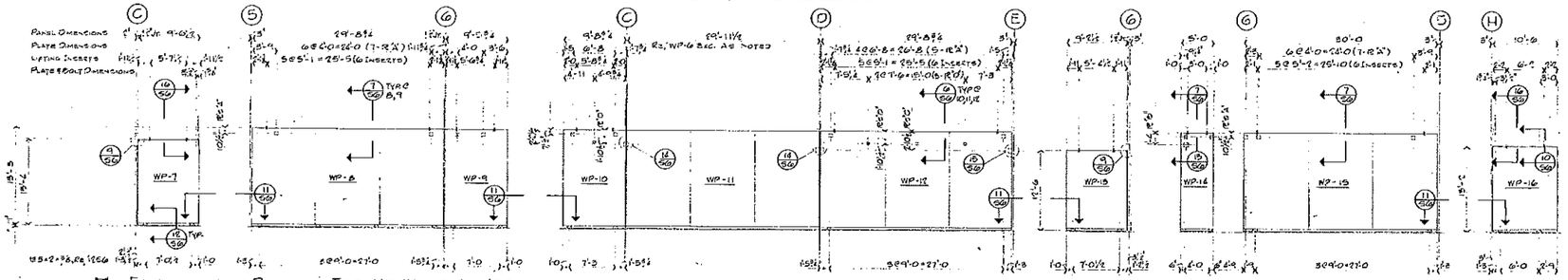
4 ELEVATIONS - PRECAST TILT-UP WALLS AT EXHIBIT AREA
1/8" = 1'-0"
Ce/150, Acch.

NOTES: 1. THE CONTRACTOR SHALL PROVIDE BRACING TO SUPPORT THE TILT-UP WALLS UNTIL THEY ARE CONNECTED TO THE STRUCTURE AS DETAILED. BRACE FROM TOP OF WALL
2. REINFORCE ALL WALLS WITH # 4 @ 18" VERT. & # 3 @ 8" HORIZ. Ce/Sec. 155.
3. SEE PLAN, SHT. S2 FOR PANEL LOCATIONS.

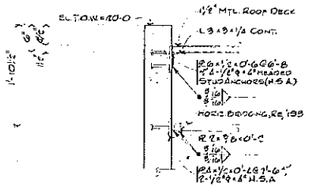
PLATE SCHEDULE

A	R 6 - 1'-2" x 0'-6"
B	R 8 - 1'-2" x 1'-0"
C	R 4 - 1'-2" x 0'-8"
D	R 6 - 1'-2" x 0'-4"

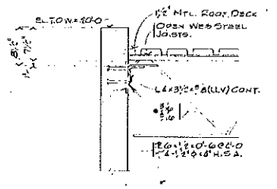
NOTES: 1. PLATE LOCATIONS ARE SHOWN ON WALL ELEVS.
2. SEE DETAILS THIS SHT. FOR PLATE DETAILS.



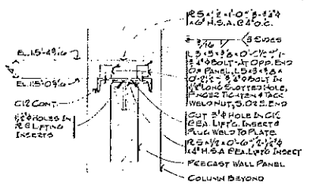
5 ELEVATIONS - PRECAST TILT-UP WALLS AT MEETING AREA
1/8" = 1'-0"
Ce/150, Acch.



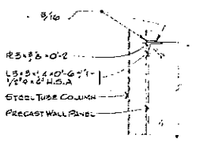
6 SECTION
1" = 1'-0"
Ce/156,556



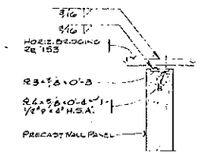
7 SECTION
1" = 1'-0"
Ce/156,556



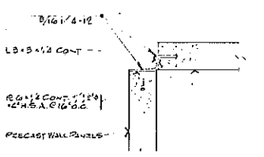
8 SECTION
1" = 1'-0"
Ce/156



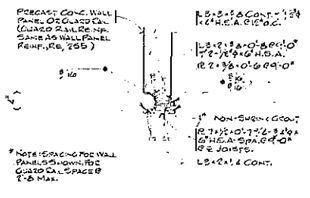
9 SECTION
1" = 1'-0"
Ce/556



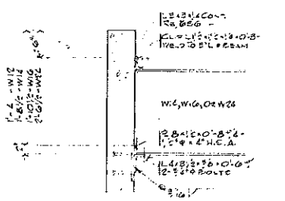
10 SECTION
1" = 1'-0"
Ce/556



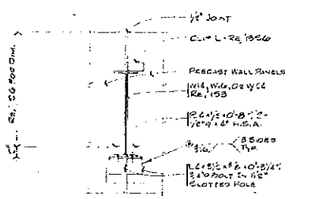
11 PLAN SECTION
1" = 1'-0"
Ce/556



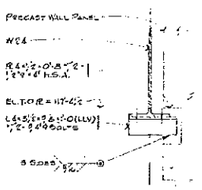
12 SECTION
1" = 1'-0"
Ce/156,556



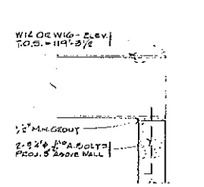
13 SECTION
NO SCALE
Ce/156,556



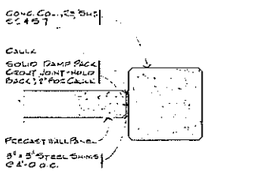
14 SECTION
NO SCALE
Ce/156,556



15 SECTION
1" = 1'-0"
Ce/556



16 SECTION
1" = 1'-0"
Ce/556



17 PLAN SECTION
1" = 1'-0"
Ce/556

VAN DEUSEN & PORTE
ARCHITECTS & PLANNERS
grand junction, colorado

REVISIONS

MULTI-PURPOSE BUILDING
COLORADO

09105938.TIF

MAIN STREET

FIRST STREET

SECOND ST.

GUTTER 3/4" = 1'-0"

CURB/PLAZA 1/4" = 1'-0"

MULTI-PURPOSE BUILDING

2 RIVERS PLAZA

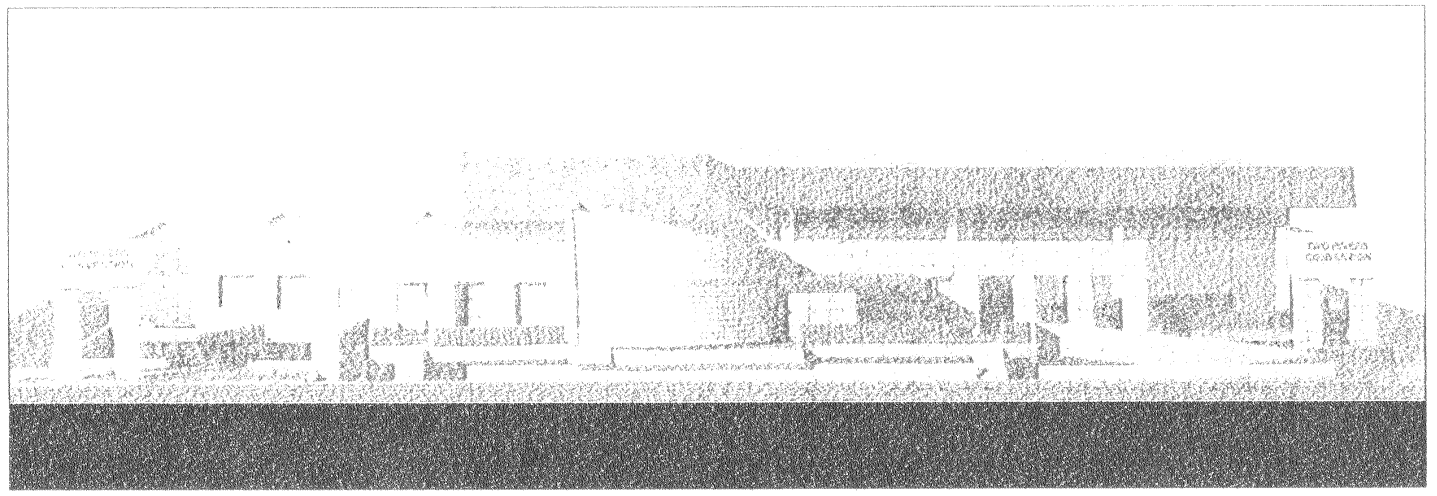
project no.

TWO RIVERS CONVENTION CENTER IMPROVEMENTS

GRAND JUNCTION, COLORADO

FINAL CONSTRUCTION SET

APRIL 26, 2001



FRONT ELEVATION

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DKO ARCHITECTURE
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ENGLEWOOD, CO 80112
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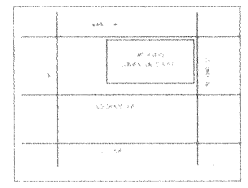
CONTRACTOR
SHAW CONSTRUCTION
750 HORIZON DRIVE
GRAND JUNCTION, COLORADO 81506
(970) 248-8258 FAX (970) 241-3818

CODE INFORMATION

CODE REVIEW INFORMATION

1. APPLICABLE CODES	2000 INTERNATIONAL BUILDING CODE (IBC) 2000 INTERNATIONAL MECHANICAL CODE (IMC) 2000 INTERNATIONAL PLUMBING CODE (IPC) 1999 NATIONAL ELECTRIC CODE (NFPA 70) 2000 UNIFORM FIRE CODE (UFC)
2. OCCUPANCY USE AND GROUP	GROUP A-3 OCCUPANCY
3. TYPE OF CONSTRUCTION	TYPE II-B

VICINITY MAP



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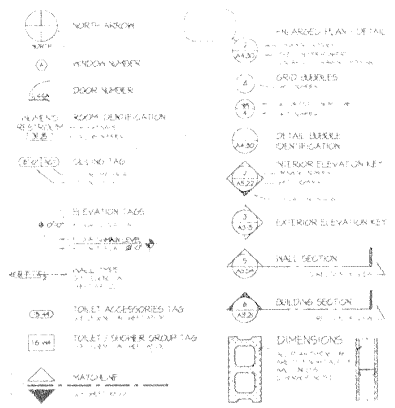
EP2.30 ROOF TOP POWER PLAN
EP3.10 KITCHEN POWER PLAN
EL1.00 LIGHTING FIXTURE SCHEDULE
EL1.10 SITE LIGHTING PLAN
EL2.11 ENLARGED PARKING LEVEL LIGHTING PLAN
EL2.12 ENLARGED PARKING LEVEL LIGHTING PLAN
EL2.21 ENLARGED PLAZA LEVEL LIGHTING PLAN
EL2.22 ENLARGED PLAZA LEVEL LIGHTING PLAN

MECHANICAL / PLUMBING
M0.01 MECHANICAL LEGEND 7 NOTES
M0.02 SCHEDULES
M2.10 PARKING LEVEL MECHANICAL PLAN
M2.20 PLAZA LEVEL MECHANICAL PLAN
M2.30 ROOF MECHANICAL PLAN
M3.10 MECHANICAL UPDATES

P2.10 PARKING LEVEL PLUMBING PLAN
P2.20 PLAZA LEVEL PLUMBING PLAN
P2.30 ROOF PLUMBING PLAN
P3.10 PLUMBING ISOMETRICS & DETAILS

FOOD SERVICE DRAWINGS
FS1.1 FOODSERVICE EQUIPMENT PLAN
FS1.2 FOODSERVICE BUILDING CONDITIONS & VENTILATION PLAN
FS1.3 FOODSERVICE PLUMBING PLAN
FS1.4 FOODSERVICE ELECTRICAL PLAN
FS2.1 FOODSERVICE DETAILS
FS3.1 FOODSERVICE DETAILS

LEGEND



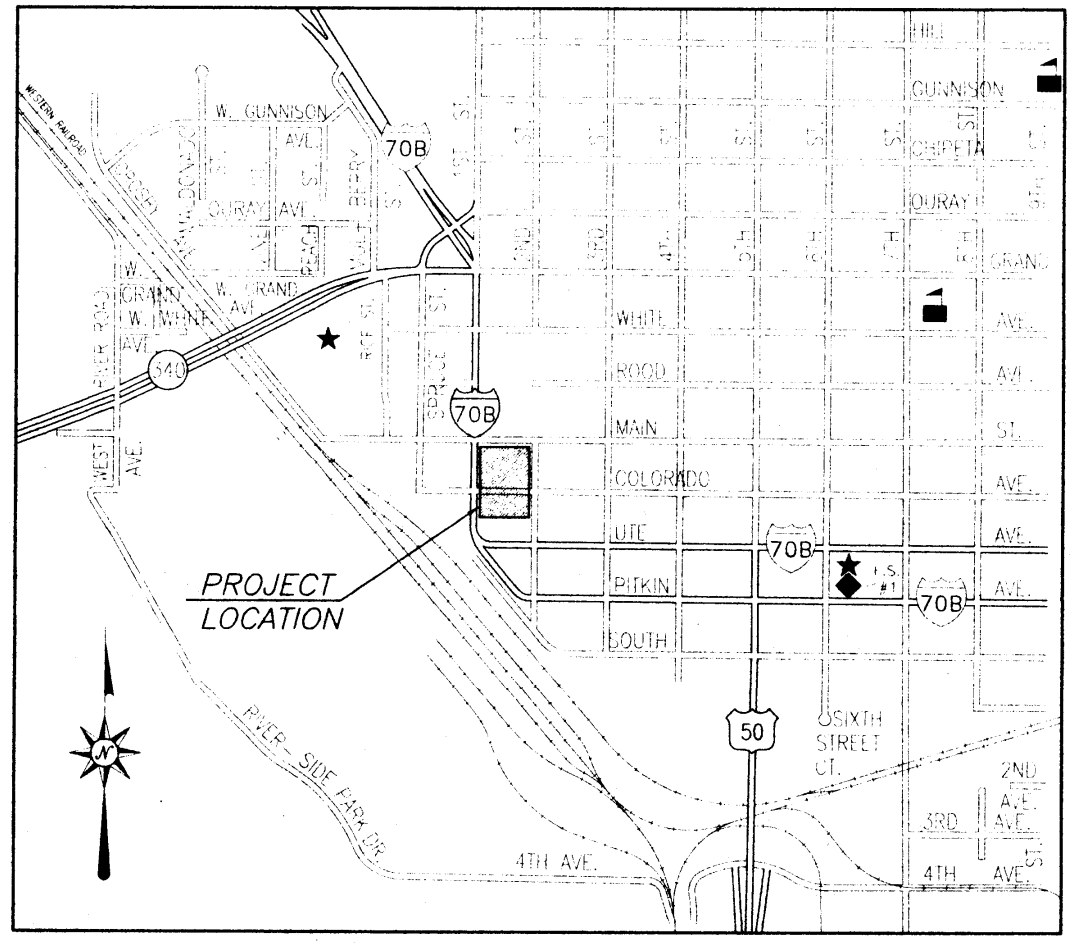
ABBREVIATIONS

FINAL CONSTRUCTION SET

TWO RIVERS
CONVENTION CENTER

PREPARED FOR:
CITY OF GRAND JUNCTION
250 N. 5TH STREET
GRAND JUNCTION, CO 81501

PREPARED BY:
ROLLAND ENGINEERING
405 RIDGES BLVD.
GRAND JUNCTION, CO 81503



VICINITY MAP

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BENCHMARK
MCSM BLOCK CORNER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88

CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

ROLLAND ENGINEERING
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TWO RIVERS CONVENTION CENTER
COVER SHEET

Designed: ESS | Checked: TDR | Proj# 0088 | Sheet 1
Drawn: ESS | Date: 2/5/01 | By 3/14/01 | Of 19

ABBREVIATIONS

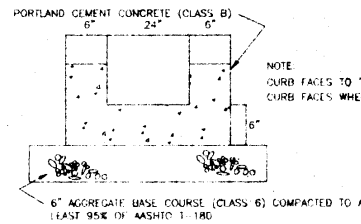
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
ADA	AMERICANS WITH DISABILITIES ACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
B.O.W	BACK OF WALK
BLDG	BUILDING
C.D.O.T.	COLORADO DEPARTMENT OF TRANSPORTATION
C.G.	CURB AND GUTTER
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONST	CONSTRUCTION
C.Y.	CUBIC YARD
CU. YD.	CUBIC YARD
DEG	DEGREE
DIA	DIAMETER
DWY	DRIVEWAY
E	EAST
EA	EACH
E.W	EACH WAY
EL	ELEVATION
EX.or EXIST	EXISTING
FH	FIRE HYDRANT
FL or F.L.	FLOWLINE
FT	FOOT
G	GROUND
HBP	HOT BITUMINOUS PAVEMENT
HWY	HIGHWAY
I.D.	INSIDE DIAMETER
INV.	INVERT
IR. or IRR	IRRIGATION
IRMH	IRRIGATION MANHOLE
IRWV	IRRIGATION WATER VALVE
L.F.	LINEAL FEET
LF	LINEAL FEET
LP	LIGHT POLE
L.S.	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MCSM	MESA COUNTY SURVEY MONUMENT
MIN	MINIMUM
N	NORTH
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
O.D.	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PI	POINT OF CURVATURE
PSCO	PUBLIC SERVICE OF COLORADO
PT	POINT OF TANGENCY
PVC	POINT - VERTICAL CURVE
PVC	POLYVINYLCHLORIDE PIPE
PVI	POINT - VERTICAL INTERSECT
PVMT	PAVEMENT
PVT	POINT - VERTICAL TANGENCY
R	RADIUS
ROW	RIGHT-OF-WAY
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
S	SOUTH
S.Y.	SQUARE YARD
STA	STATION
STD	STANDARD
SW	SIDEWALK
TC	TOP OF CURB
TEMP	TEMPORARY
TYP	TYPICAL
U.S.	UNITED STATES
UTIL	UTILITY
VC	VERTICAL CURVE
W	WEST
WM	WATER METER

LEGEND

- CITY SURVEY MARKER
- CITY SURVEY MARKER
- UP — UTILITY POLE
- LP — LIGHT POLE
- WV — WATER VALVE
- WM — WATER METER
- CB — CATCH BASIN
- FH — FIRE HYDRANT
- TPED — TELEPHONE PEDESTAL
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- IRRIGATION MANHOLE
- WATER MANHOLE
- —ST— STORM DRAIN LINE
- —SS— SANITARY SEWER LINE
- —COM— COMMUNICATION LINE
- —TV— TELEVISION CABLE LINE
- —OH— OVERHEAD ELECTRIC LINE
- —UG-E— UNDERGROUND ELECTRIC LINE
- PROPOSED DRAINAGE PATTERNS

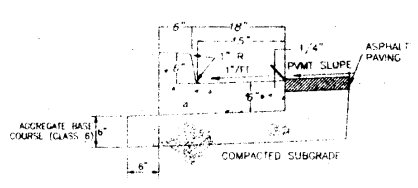
GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF GRAND JUNCTION STANDARDS, EXHIBITS, AND SPECIFICATIONS (EXCLUDING MEASURMENT AND PAYMENT) UNLESS OTHERWISE NOTED. THESE DRAWINGS TAKE PRECEDENCE WHEN A CONFLICT EXISTS BETWEEN THESE DRAWINGS AND THE ABOVE REQUIREMENTS.
2. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF GRAND JUNCTION STANDARDS AND SPECIFICATIONS (EXCLUDING MEASUREMENT AND PAYMENT). ALL TESTING IS THE CONTRACTORS RESPONSIBILITY.
3. ALL WATER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH UTE WATER CONSERVANCY DISTRICT STANDARDS AND SPECIFICATIONS. ALL DISINFECTION AND TESTING IS THE CONTRACTORS RESPONSIBILITY.
4. THE CONTRACTOR SHALL HAVE ONE COPY OF THE PLANS AND A COPY OF THE CITY OF GRAND JUNCTION'S STANDARD EXHIBITS AND SPECIFICATIONS ON SITE AT ALL TIMES.
5. CONSTRUCTION STAKING IS THE CONTRACTORS RESPONSIBILITY.
6. THE CONTRACTOR WILL PROVIDE COMPACTION AND MATERIAL TESTING. THIS TESTING WILL BE PER THE CITY OF GRAND JUNCTION SPECIFICATION PAGE RE 3. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING ALL TESTING. ALL RE TESTING WILL BE AT THE CONTRACTOR'S EXPENSE.
7. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. SIGNIFICANT EFFORT HAS BEEN MADE TO IDENTIFY THE EXISTING UTILITIES, HOWEVER, UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE DRAWINGS. ADDITIONALLY, THE DEPTH OF EXISTING UTILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES IN THE FIELD BEFORE PERFORMING ANY WORK ON OR AROUND THEM. COORDINATE RELOCATION OF ALL UTILITIES AS NECESSARY TO INSTALL NEW IMPROVEMENTS.
8. THE CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED UTILITIES REGARDING RELOCATIONS AND ADJUSTMENTS DURING CONSTRUCTION TO ACCOMPLISH THE WORK IN A TIMELY MANNER WITH MINIMUM DISRUPTION IN SERVICE.
9. UNLESS OTHERWISE SPECIFIED, ALL FILL SHALL BE COMPACTED TO AT LEAST 95% OF ASTM D698 WITHIN 2% OF OPTIMUM MOISTURE CONTENT.
10. ALL MATERIALS AND WORKMANSHIP WITHIN THE CITY R.O.W. ARE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP, WITHIN CITY RIGHT OF WAY, THAT DOES NOT CONFORM TO STANDARDS. THE OWNER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIAL AND WORKMANSHIP ON SITE THAT DOES NOT CONFORM TO STANDARDS.
11. THE CONTRACTOR SHALL NOTIFY CITY INSPECTION AND THE ENGINEER 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN CITY RIGHT OF WAY, NOT CONFORM TO STANDARDS

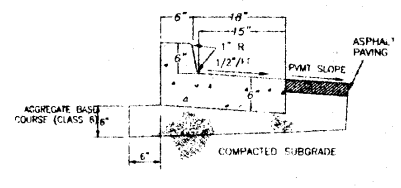


2' DRAINAGE CHANNEL
N.T.S.

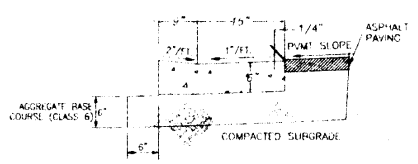
CURB NOTES
1. COMPACT BASE COUNSE TO AT LEAST 95% OF AASHTO T-180.
2. COMPACT SUBGRADE TO AT LEAST 95% IF AASGTI T-199 WITHIN 2% OF OPTIMUM MOISTURE CONTENT.



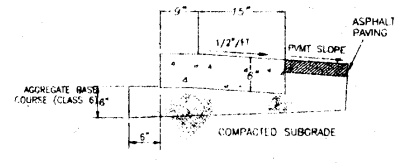
'CATCH' CURB & GUTTER
N.T.S.



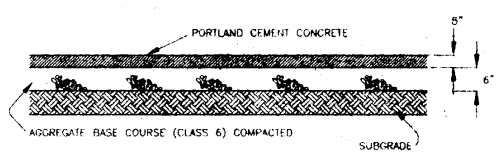
'SPILL' CURB & GUTTER
N.T.S.



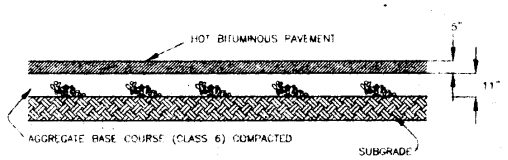
'CATCH' NO CURB
N.T.S. - ONSITE ONLY



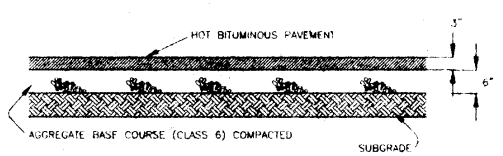
'SPILL' NO CURB
N.T.S - ONSITE ONLY



CONCRETE PAVEMENT SECTION (ON-SITE AND ROUND ABOUT)
N.T.S.

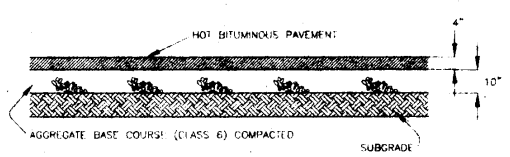


FIRST STREET PAVEMENT SECTION
N.T.S.



ASPHALT PAVEMENT SECTION (ON-SITE ONLY)
N.T.S.

PAVEMENT NOTES:
1. USE OF GEOTEXTILE FABRIC FOR SEPARATION AND MINOR REINFORCEMENT PLACED BENEATH THE AGGREGATE BASE COURSE MAY BE REQUIRED IN SOME AREAS ON THE SITE, DEPENDING UPON SUBSOIL CONDITIONS ENCOUNTERED.



SECOND AND COLORADO PAVEMENT SECTION
N.T.S.

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CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

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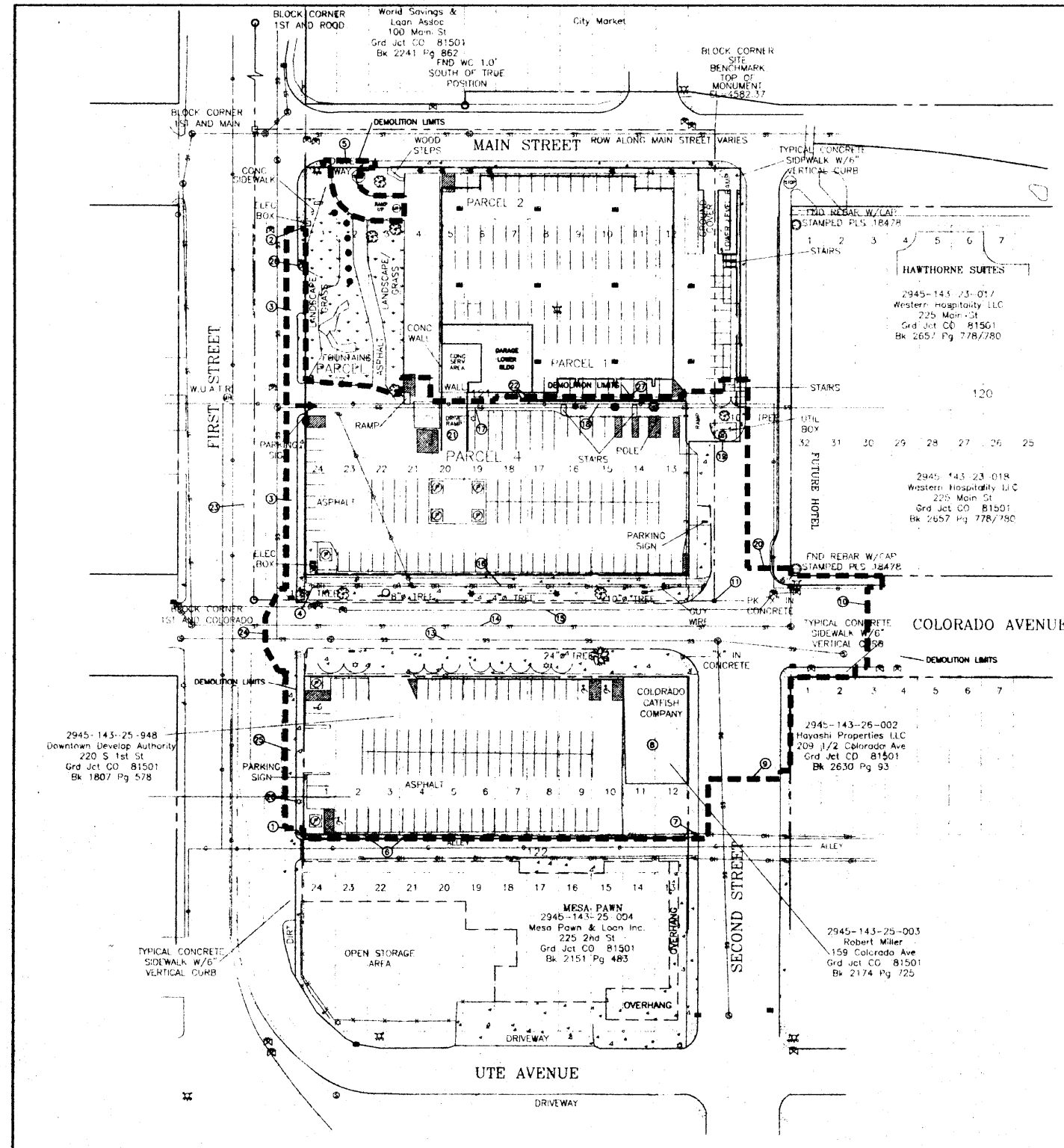
TWO RIVERS CONVENTION CENTER
GENERAL NOTES AND TYPICAL SECTIONS

Designed: ESS	Checked: TDR	Proj#: 0088	Sheet: 2		
Drawn: ESS	Date: 2/5/01	Rv: 4/23/01	Of: 19		



NOTES

(1) REMOVE CURB AND SIDEWALK FROM POWER POLE TO NORTH. POWER POLE TO REMAIN.
(2) REMOVE CURB AND SIDEWALK FROM HC RAMP TO SOUTH.
(3) REMOVE ASPHALT FROM EXISTING CONCRETE PAN TO CURB AND GUTTER.
(4) UTILITY POLE AND GUY WIRE TO REMAIN.
(5) REMOVE DRIVE CUT, ASPHALT AND CURB AT DRIVE RAMP.
(6) OVERHEAD UTILITIES TO BE RELOCATED.
(7) UTILITY POLE TO BE REMOVED/RELOCATED BEHIND NEW SIDEWALK.
(8) REMOVE EXISTING BUILDING.
(9) REMOVE CURB, GUTTER AND ASPHALT TO NORTH. SEE SHEET 11 FOR EXACT LOCATION.
(10) REMOVE CURB, GUTTER AND ASPHALT TO WEST. SEE SHEET 11 FOR EXACT LOCATION.
(11) MESA COUNTY SURVEY MARKER TO BE REFERENCED AND REPLACED.
(12) NOT USED.
(13) EXISTING SANITARY SEWER TO REMAIN. MANHOLES TO BE ADJUSTED TO PROPOSED GRADES.
(14) EXISTING STORM SEWER TO REMAIN. MANHOLES TO BE ADJUSTED TO PROPOSED GRADES.
(15) EXISTING WATERLINE TO REMAIN. WATER VALVES TO BE ADJUSTED TO PROPOSED GRADES.
(16) OVERHEAD UTILITIES TO BE RELOCATED.
(17) EXISTING SANITARY SEWER TO BE REMOVED OR PUMPED FULL OF CONCRETE.
(18) EXISTING GAS LINE TO BE RELOCATED.
(19) VERIFY USE OF EXISTING UTILITY BOX BEFORE REMOVAL.
(20) REMOVE EXISTING ASPHALT WITHIN 5' OF PROPOSED SURFACE IMPROVEMENTS.
(21) EXISTING DRIVE RAMP TO REMAIN.
(22) EXISTING UTILITIES TO BUILDING TO BE RELOCATED AND/OR ABANDONED.
(23) REMOVE CURB AND ASPHALT TO ACCOMMODATE PROPOSED CURB.
(24) REMOVE ASPHALT TO ACCOMMODATE PROPOSED GRADES.
(25) EXISTING ASPHALT TO REMAIN UP TO 1 FT. FROM FROM EXISTING CURB.
(26) LIGHT POLE TO REMAIN.
(27) MODULAR BRICK WALL IN PARKING GARAGE TO BE SALVAGED AND RETURNED TO CITY.

GENERAL NOTES

1. REMOVE ALL SURFACE IMPROVEMENTS WITHIN DEMOLITION LIMITS UNLESS OTHERWISE NOTED.
2. SEE ARCHITECTURAL DEMOLITION PLAN FOR DEMOLITION AT EXISTING BUILDING.
3. REMOVE OLD FOUNDATIONS TO AT LEAST 2 FT. BELOW PROPOSED GRADE.

LEGEND

- DENOTES CALCULATED POSITION (NOTHING SET)
- DENOTES FOUND REBAR AS NOTED
- DENOTES SET #5 REBAR W/CAP STAMPED AES 24320
- DENOTES SET PK IN CONCRETE OR AS NOTED
- DENOTES CONTROL LINE FOR BLOCK
- DENOTES 5' CIRCUMFERENCE CONCRETE COLUMN
- DENOTES MAIN (TWO RIVERS) SIGN
- DENOTES STOP SIGN
- DENOTES PARKING SIGN
- DENOTES SIGNAL POLE
- DENOTES SIGN POST
- DENOTES WATER METER
- DENOTES WATER GRATE
- DENOTES ELECTRIC TRANSFORMER
- DENOTES UNDERGROUND ELECTRIC
- DENOTES SANITARY SEWER
- DENOTES STORM SEWER
- DENOTES FIRE HYDRANT
- DENOTES TELEPHONE BOX
- DENOTES OVERHEAD POWER/UTILITY
- DENOTES LIGHT POLE
- DENOTES LIGHT POLE
- DENOTES 1"ø TREE
- DENOTES 4"ø TREE
- DENOTES 6"ø TREE
- DENOTES 8"ø TREE
- DENOTES 10"ø TREE
- DENOTES 24"ø TREE
- DENOTES SHRUBS/HEDGE

0' 40' 80' 120'

ACCEPTED FOR CONSTRUCTION

CITY DEVELOPMENT ENGINEER
DATE
CITY UTILITY ENGINEER
DATE

ACCEPTED AS CONSTRUCTED

CITY DEVELOPMENT ENGINEER
DATE
CITY UTILITY ENGINEER
DATE

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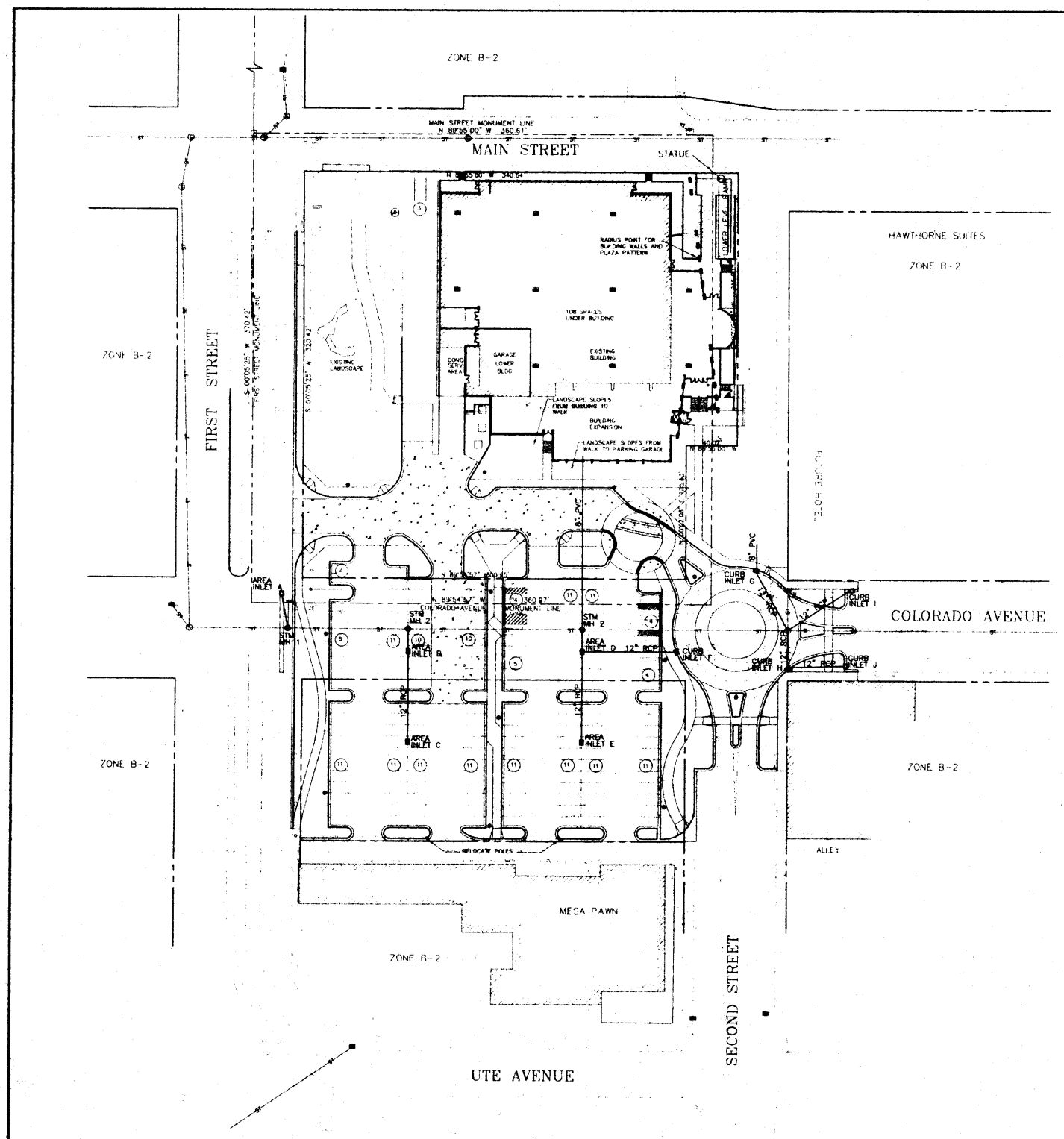
TWO RIVERS CONVENTION CENTER

SITE DEMOLITION PLAN

Designed	ESS	Checked	TDR	Project	0088
Drawn	ESS	Date	2/5/01	No.	4/25/01

Sheet 3 of 19



BENCHMARK

MCSM BLOCK CORNER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88

BASIS OF BEARING

MONUMENT LINE OF FIRST STREET
FROM MAIN STREET TO COLORADO AVENUE

0' 40' 80' 120'

UTILITY PROVIDERS	
DOMESTIC WATER	CITY OF GRAND JUNCTION
SANITARY SEWER	CITY OF GRAND JUNCTION
ELECTRIC	PUBLIC SERVICE COMPANY
GAS	PUBLIC SERVICE COMPANY
TELEPHONE	U.S. WEST
CABLE TV	TCI CABLEVISION

LAND USE BREAKDOWN		
TWO RIVERS PARCEL		
BUILDING	0.87 AC.	36%
LANDSCAPE	0.51 AC.	21%
ASPHALT/CONCRETE	0.31 AC.	43%
TOTAL	1.04 AC.	100%
SOUTH OF COLONADO PARCEL		
BUILDING	0.00 AC.	0%
LANDSCAPE	0.14 AC.	16%
ASPHALT/CONCRETE	0.75 AC.	84%
TOTAL	0.89 AC.	100%

PARKING DATA	
UNDER BUILDING	111
SOUTH OF BUILDING	168
TOTAL PARKING SPACES	279
REQUIRED PARKING SPACES	249

NOTES:

1. SEE SITE DEMOLITION PLAN FOR TREATMENT OF EXISTING UTILITIES AND SURFACE IMPROVEMENTS.
2. SEE ARCHITECTUAL DRAWINGS FOR BUILDING EXPANSION DIMENSIONS AND REQUIRED BUILDING DEMOLITION.

LEGEND

- TEXTURED AND/OR COLORED CONCRETE
- PLAIN CONCRETE WITH SPECIFIC SCORE PATTERN
- PLAIN CONCRETE
- (4) PARKING COUNT
- NEW LIGHT POLE

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
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DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

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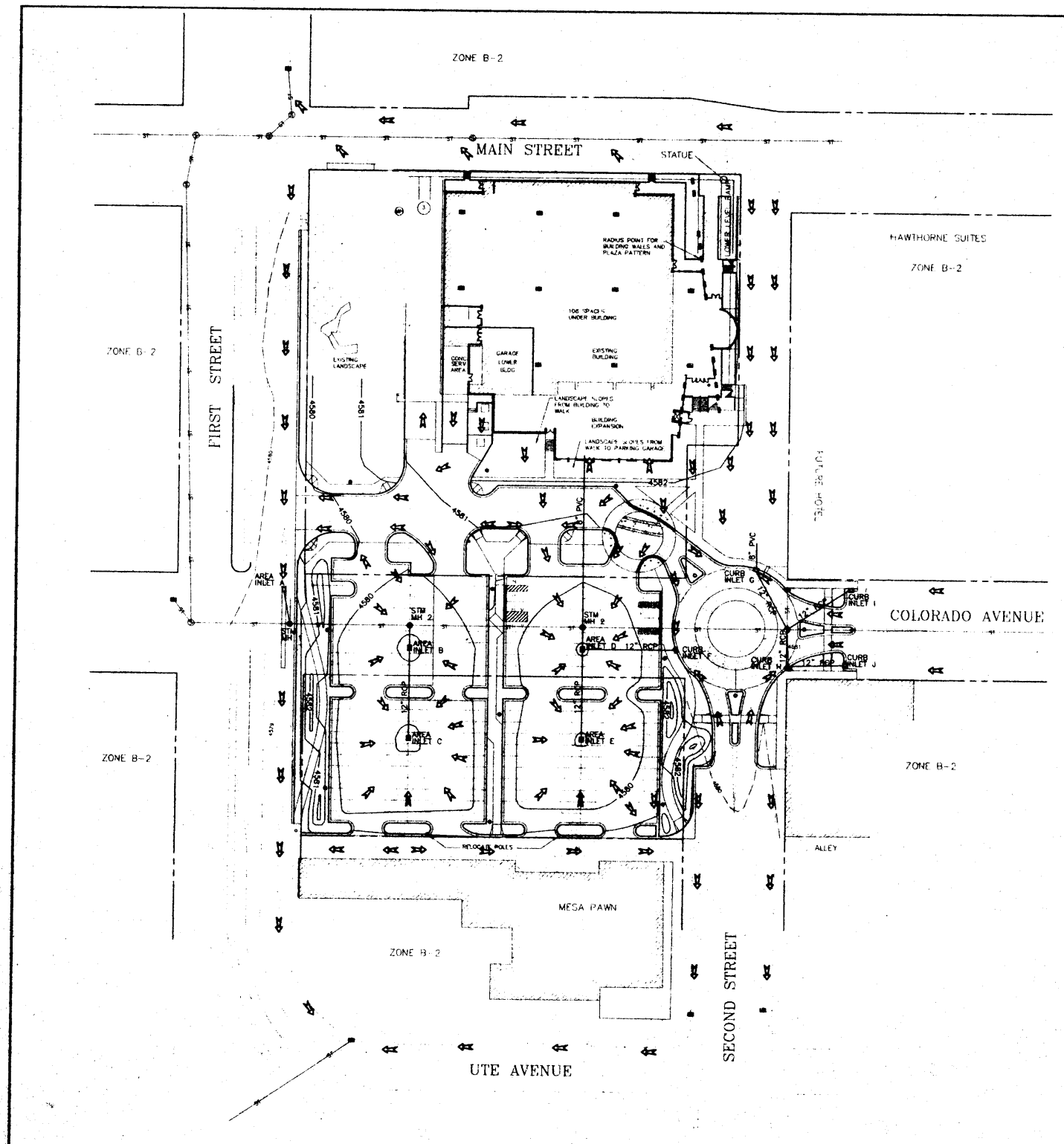
TWO RIVERS CONVENTION CENTER

COMPOSITE PLAN

Designed	ESS	Checked	TDR	Proj.	0088	Sheet	4
Drawn	ESS	Date	2/5/01	Rev.	4/23/01	Of	19



BECHMARK

CITY SURVEY MARKER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88

LEGEND

4580	EXISTING CONTOUR
4580	PROPOSED CONTOUR
	DRAINAGE PATTERNS
	EXISTING INLET
	PROPOSED INLET
12" RCP	EXISTING STORM SEWER
12" RCP	PROPOSED STORM SEWER

N

0' 40' 80' 120'

ACCEPTED FOR CONSTRUCTION

CITY DEVELOPMENT ENGINEER
DATE
CITY UTILITY ENGINEER
DATE

ACCEPTED AS CONSTRUCTED

CITY DEVELOPMENT ENGINEER
DATE
CITY UTILITY ENGINEER
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405 Rubey Blvd
Grand Jct, CO 81503
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TWO RIVERS CONVENTION CENTER

GRADING AND DRAINAGE PLAN

Designed	ESS	Checked	TDR	Project	0088
Drawn	ESS	Date	2/5/01	No.	5/14/01

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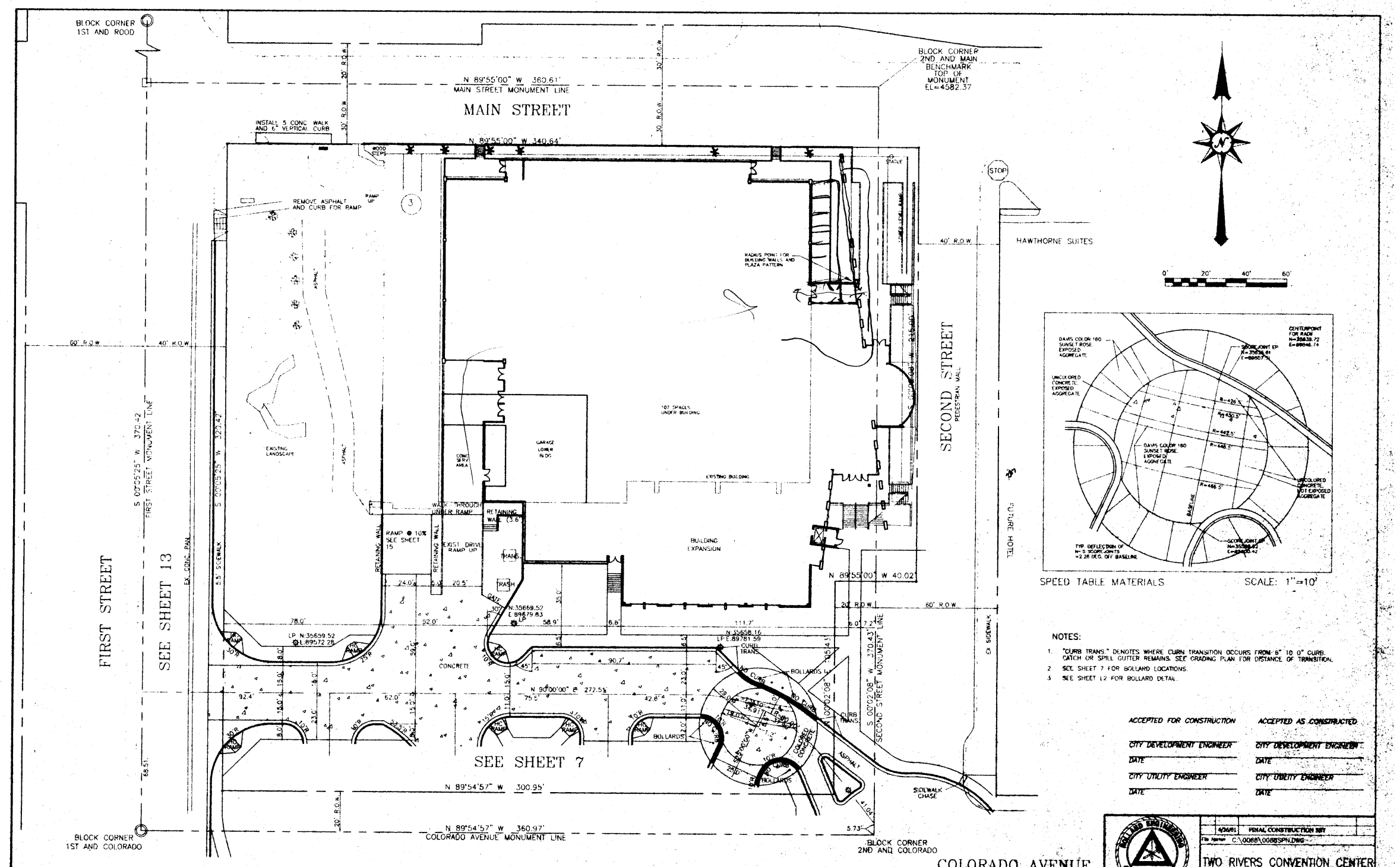

NOTES:

1. "CURB TRANS." DENOTES WHERE CURB TRANSITION OCCURS FROM 6" TO 0" CURB, CATCH OR SPILL GUTTER REMAINS. SEE GRADING PLAN FOR DISTANCE OF TRANSITION.
2. SEE SHEET 7 FOR BOLLARD LOCATIONS.
3. SEE SHEET 12 FOR BOLLARD DETAIL.

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DATE	DATE

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405 Rogers Blvd
Grand Jct, CO 81503
(970) 243-8300

4/26/01	FINAL CONSTRUCTION SET
File Name	C:\0088\0088SPN.DWG

TWO RIVERS CONVENTION CENTER

SITE PLAN NORTH

Designed	ESS	Checked	TDR	Proj#	0088	Sheet	6
Drawn	ESS	Date	2/5/01	Rev	4/23/01	Of	19

FIRST STREET

SEE SHEET 13

S 00°05'25" W 370.42'
FIRST STREET MONUMENT LINE

SEE SHEET 13

S 00°05'25" W 320.42'

SEE SHEET 6

COLORADO AVENUE

SECOND STREET

SEE SHEET 12

EXISTING GRAVEL ALLEY

EX. SIDEWALK

BOLLARD LOCATIONS SCALE: 1"=10'

NOTES:

1. "CURB TRANS." DENOTES WHERE CURB TRANSITION OCCURS FROM 6" TO 0" CURB. CATCH OR SMALL GUTTER REMAINS. SEE GRADING PLAN FOR LISTANCE OF TRANSITION.
2. SEE SHEET 12 FOR BOLLARD DETAIL.

ACCEPTED FOR CONSTRUCTION

CITY DEVELOPMENT ENGINEER — DATE

CITY UTILITY ENGINEER — DATE

ACCEPTED AS CONSTRUCTED

CITY DEVELOPMENT ENGINEER — DATE

CITY UTILITY ENGINEER — DATE

ROLLAND ENGINEERING
Grand Jct, CO 81503
(970) 243-8300

No.	Date	Revision
1	3/14/01	FINAL CONSTRUCTION SET

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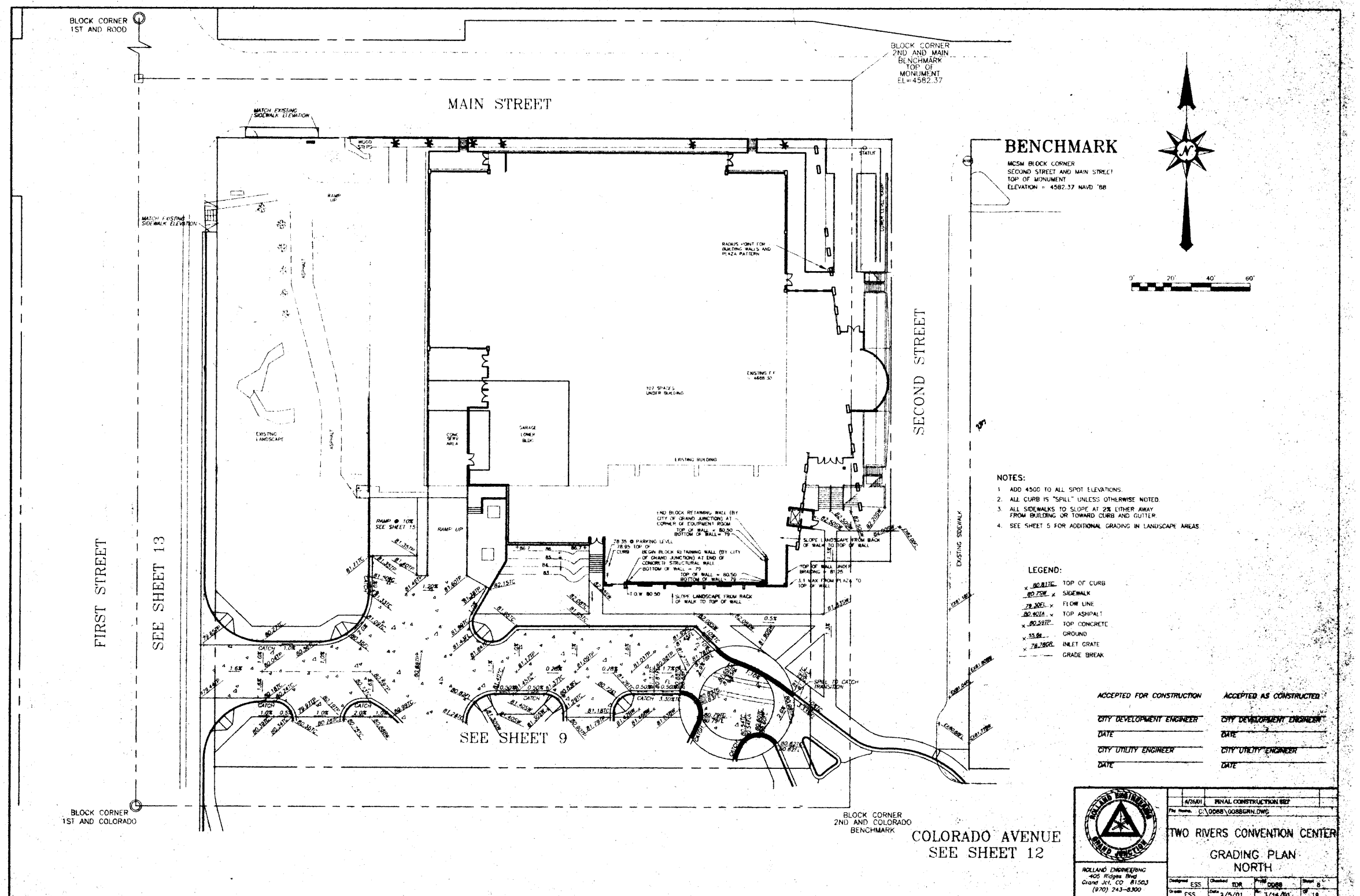
TWO RIVERS CONVENTION CENTER

SITE PLAN
SOUTH

Designed	Checked	Project	Sheet
ESS	TDF	0089	7
Drawn	Date	Rev	of
ESS	2/5/01	5/14/01	19



NOTES:

1. ADD 4500 TO ALL SPOT ELEVATIONS.
2. ALL CURB IS "SPILL" UNLESS OTHERWISE NOTED.
3. ALL SIDEWALKS TO SLOPE AT 2% EITHER AWAY FROM BUILDING OR TOWARD CURB AND GUTTER.
4. SEE SHEET 5 FOR ADDITIONAL GRADING IN LANDSCAPE AREAS.

LEGEND:

x 80.81TC	TOP OF CURB
80.75SW x	SIDEWALK
79.30FL x	FLOW LINE
80.40TA x	TOP ASHPALT
x 80.29TC	TOP CONCRETE
x 55.04	GROUND
x 78.78GR	INLET GRATE
	GRADE BREAK

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

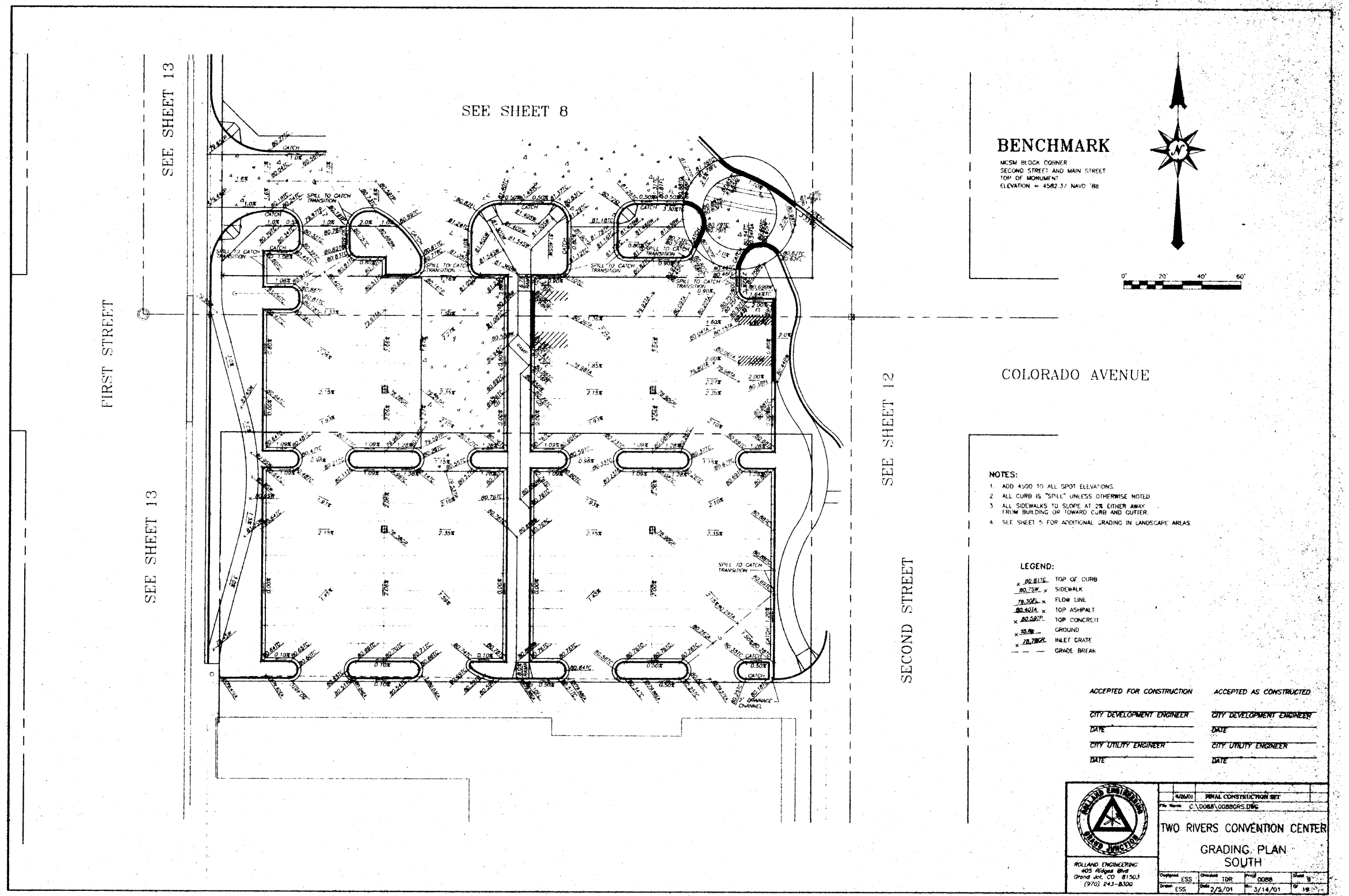
4/26/01 FINAL CONSTRUCTION SET

File Name: C:\0068\0088GRN.DWG

TWO RIVERS CONVENTION CENTER

GRADING PLAN NORTH

Designed	Checked	Project	Sheet
ESS	TDR	0068	8
Drawn	Date	No.	of
ESS	2/5/01	3/14/01	18



BENCHMARK

MCSM BLOCK CORNER
SECOND STREET AND MAIN STREET
TOP OF MONUMENT
ELEVATION = 4582.37 NAVD '88

0' 20' 40' 60'

NOTES:

1. ADD 4500 TO ALL SPOT ELEVATIONS.
2. ALL CURB IS "SPILL" UNLESS OTHERWISE NOTED.
3. ALL SIDEWALKS TO SLOPE AT 2% EITHER AWAY FROM BUILDING OR TOWARD CURB AND GUTTER.
4. SEE SHEET 5 FOR ADDITIONAL GRADING IN LANDSCAPE AREAS.

LEGEND:

80.81TC	TOP OF CURB
80.75SW	SIDEWALK
79.10FL	FLOW LINE
80.42TA	TOP ASHPALT
80.08TP	TOP CONCRETE
78.78GR	GROUND
78.78GR	INLET GRATE
	GRADE BREAK

ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

ROLLAND ENGINEERING
405 Ridge Blvd
Grand Jct, CO 81503
(970) 243-8300

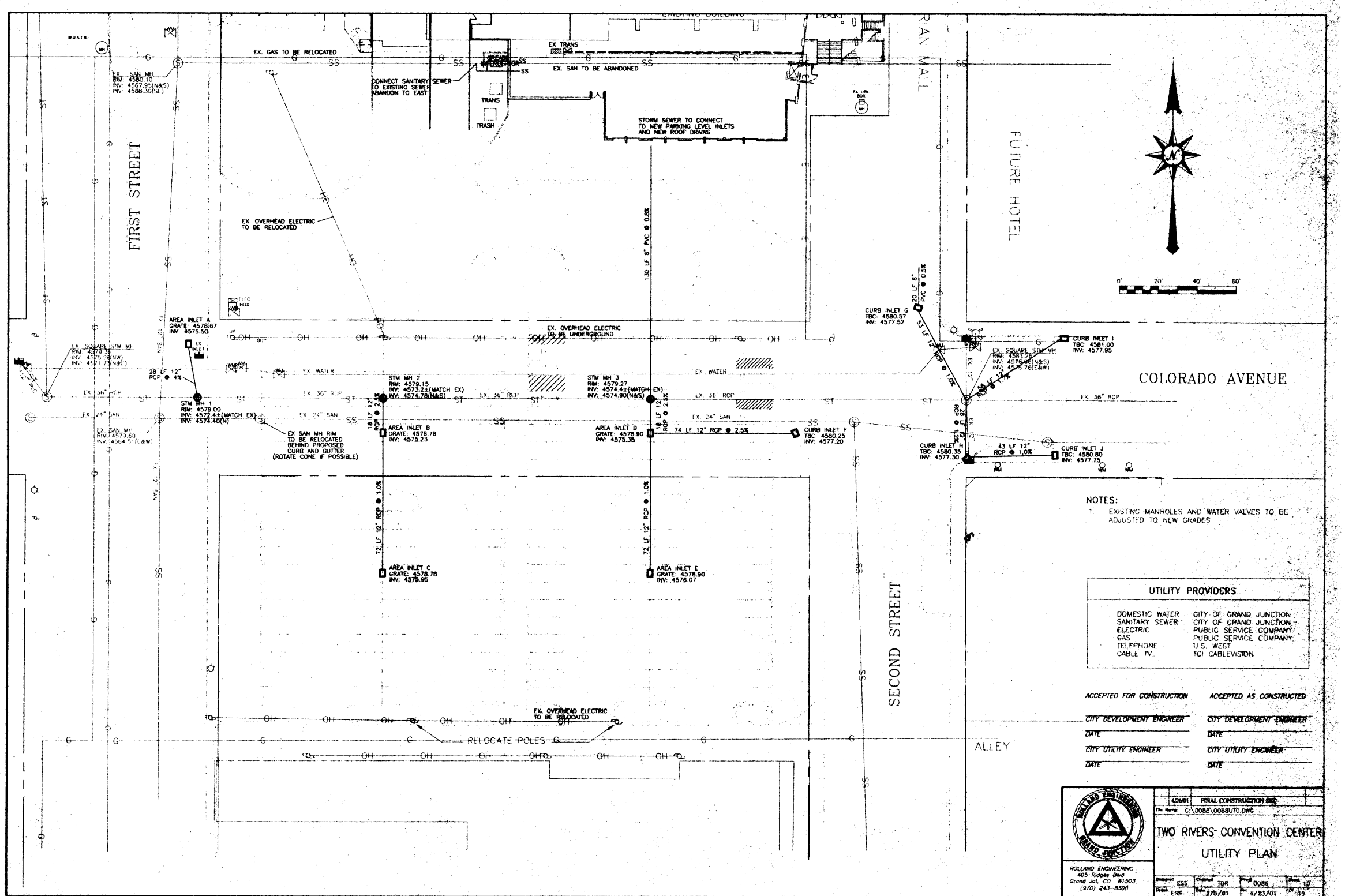
4/26/01	FINAL CONSTRUCTION SET	
File Name: C:\0088\0088GRS.DWG		

TWO RIVERS CONVENTION CENTER

GRADING PLAN SOUTH

Designed	ESS	Checked	TDR	Proj#	0088
Drawn	ESS	Date	2/5/01	No.	3/14/01

Sheet 9 of 19



NOTES:

1. EXISTING MANHOLES AND WATER VALVES TO BE ADJUSTED TO NEW GRADES

UTILITY PROVIDERS	
DOMESTIC WATER	CITY OF GRAND JUNCTION
SANITARY SEWER	CITY OF GRAND JUNCTION
ELECTRIC	PUBLIC SERVICE COMPANY
GAS	PUBLIC SERVICE COMPANY
TELEPHONE	U.S. WEST
CABLE TV	TCI CABLEVISION

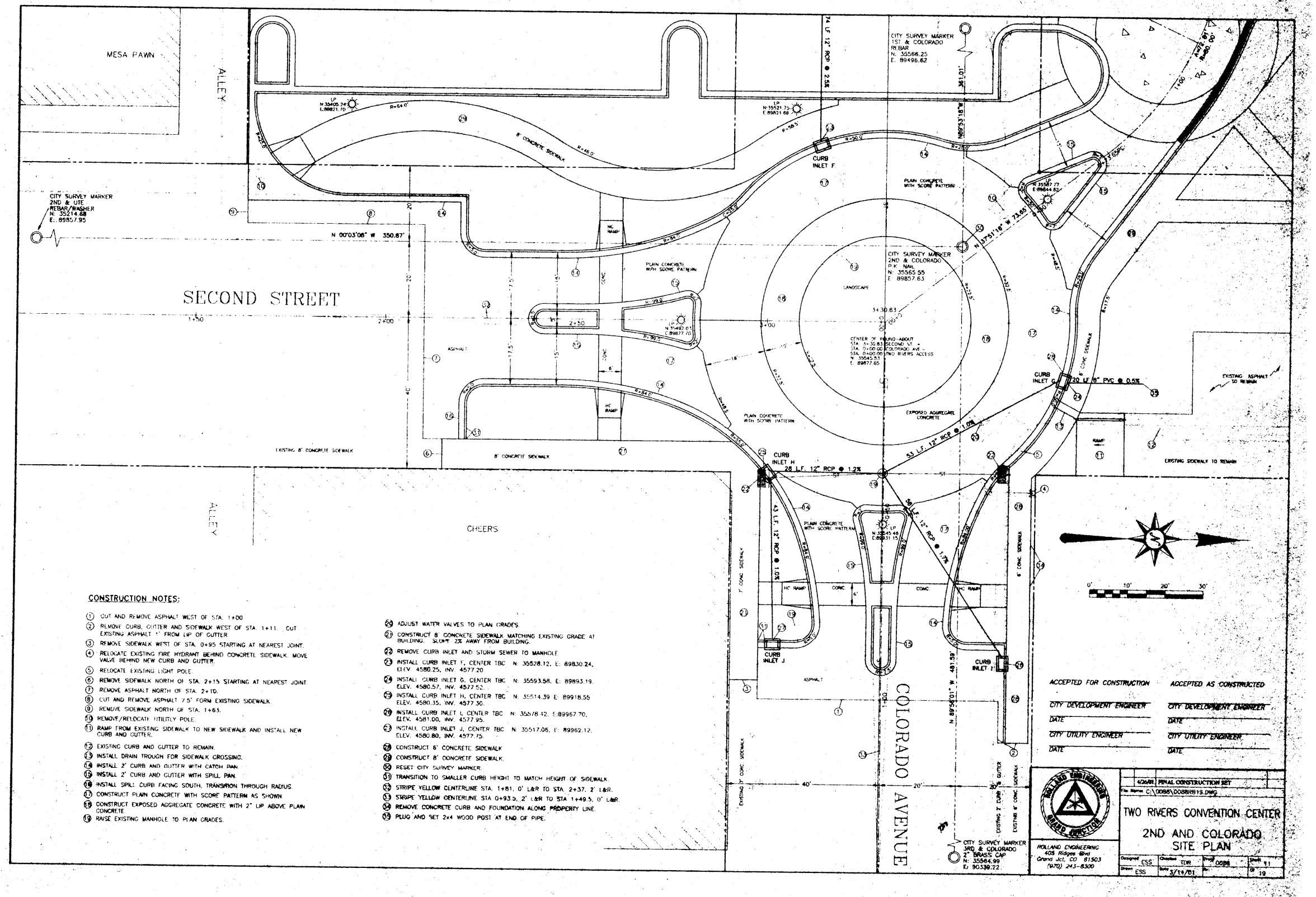
ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8500

4/24/01	FINAL CONSTRUCTION SUB.	
File Name:	C:\0088\0088UTC.DWG	

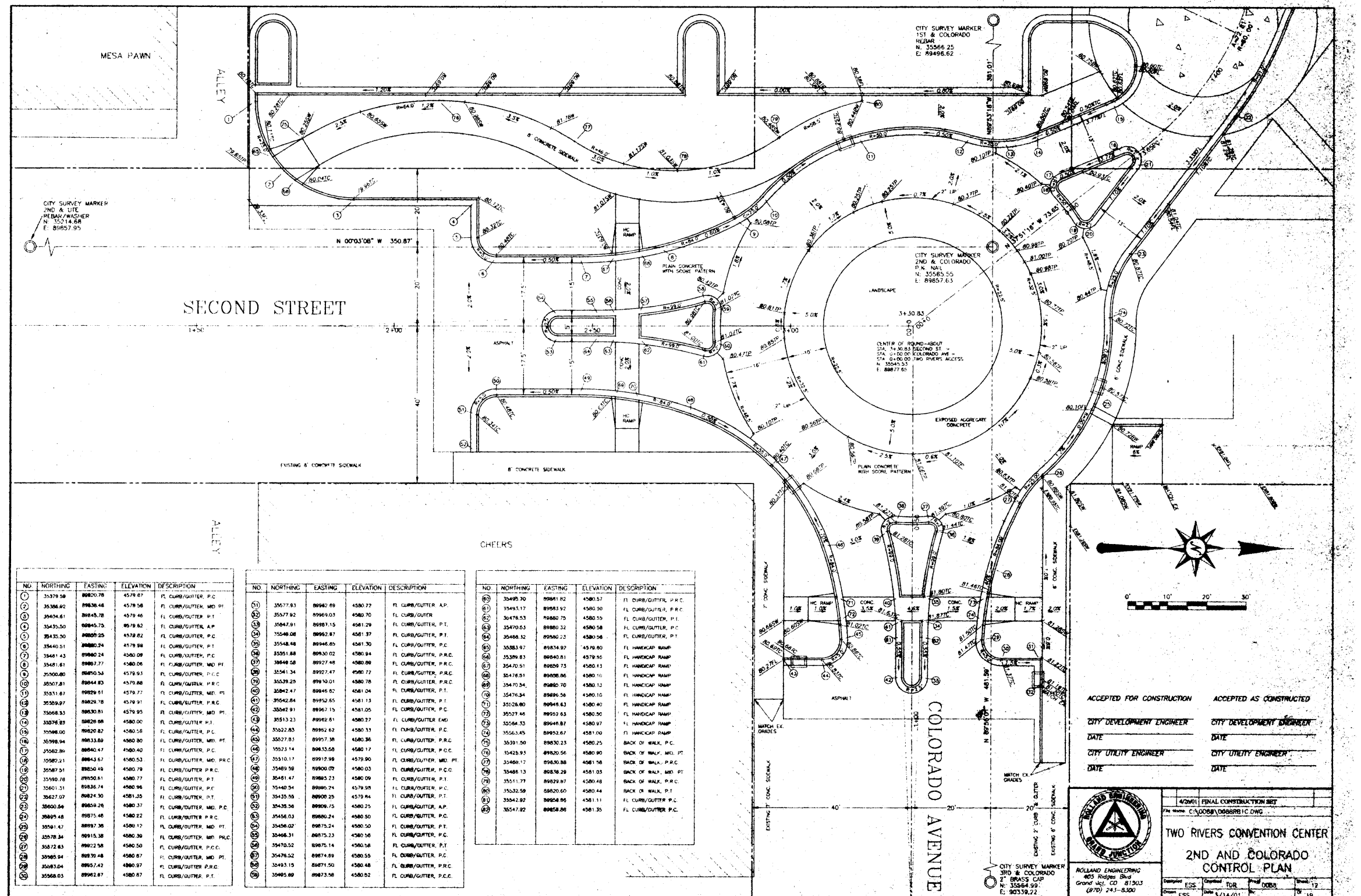
TWO RIVERS CONVENTION CENTER
UTILITY PLAN

Designed	ESS	Checked	TDR	Proj	0088	Sheet	10
Drawn	ESS	Date	2/8/01	Jn	4/23/01	Of	19



CONSTRUCTION NOTES:

1. CUT AND REMOVE ASPHALT WEST OF STA. 1+00
2. REMOVE CURB, GUTTER AND SIDEWALK WEST OF STA. 1+11. CUT EXISTING ASPHALT 1' FROM LIP OF GUTTER
3. REMOVE SIDEWALK WEST OF STA. 0+95 STARTING AT NEAREST JOINT.
4. RELOCATE EXISTING FIRE HYDRANT BEHIND CONCRETE SIDEWALK. MOVE VALVE BEHIND NEW CURB AND GUTTER.
5. RELOCATE EXISTING LIGHT POLE.
6. REMOVE SIDEWALK NORTH OF STA. 2+15 STARTING AT NEAREST JOINT.
7. REMOVE ASPHALT NORTH OF STA. 2+10.
8. CUT AND REMOVE ASPHALT 7.5' FORM EXISTING SIDEWALK.
9. REMOVE SIDEWALK NORTH OF STA. 1+63.
10. REMOVE/RELOCATE UTILITY POLE.
11. RAMP FROM EXISTING SIDEWALK TO NEW SIDEWALK AND INSTALL NEW CURB AND GUTTER.
12. EXISTING CURB AND GUTTER TO REMAIN.
13. INSTALL DRAIN TROUGH FOR SIDEWALK CROSSING.
14. INSTALL 2' CURB AND GUTTER WITH CATCH PAN.
15. INSTALL 2' CURB AND GUTTER WITH SPILL PAN.
16. INSTALL SPILL CURB FACING SOUTH, TRANSITION THROUGH RADIUS.
17. CONSTRUCT PLAIN CONCRETE WITH SCORE PATTERN AS SHOWN.
18. CONSTRUCT EXPOSED AGGREGATE CONCRETE WITH 2" LIP ABOVE PLAIN CONCRETE.
19. RAISE EXISTING MANHOLE TO PLAN GRADES.
20. ADJUST WATER VALVES TO PLAN GRADES.
21. CONSTRUCT 8' CONCRETE SIDEWALK MATCHING EXISTING GRADE AT BUILDING. SLOPE 2% AWAY FROM BUILDING.
22. REMOVE CURB INLET AND STORM SEWER TO MANHOLE
23. INSTALL CURB INLET F, CENTER TBC N: 35528.12, E: 89830.24, ELEV. 4580.25, INV. 4577.20
24. INSTALL CURB INLET G, CENTER TBC N: 35593.58, E: 89893.19, ELEV. 4580.57, INV. 4577.52
25. INSTALL CURB INLET H, CENTER TBC N: 35514.39 E: 89918.55 ELEV. 4580.35, INV. 4577.30.
26. INSTALL CURB INLET I, CENTER TBC N: 35578.12, E:89967.70, ELEV. 4581.00, INV. 4577.95
27. INSTALL CURB INLET J, CENTER TBC N: 35517.06, E: 89962.12, ELEV. 4580.80, INV. 4577.75
28. CONSTRUCT 6' CONCRETE SIDEWALK
29. CONSTRUCT 8' CONCRETE SIDEWALK.
30. RESET CITY SURVEY MARKER.
31. TRANSITION TO SMALLER CURB HEIGHT TO MATCH HEIGHT OF SIDEWALK.
32. STRIPE YELLOW CENTERLINE STA. 1+81. 0' L&R TO STA. 2+37. 2' L&R.
33. STRIPE YELLOW CENTERLINE STA 0+93.5, 2' L&R TO STA 1+49.5, 0' L&R.
34. REMOVE CONCRETE CURB AND FOUNDATION ALONG PROPERTY LINE.
35. PLUG AND SET 2x4 WOOD POST AT END OF PIPE.



NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	35379.58	89820.78	4579.87	FL CURB/GUTTER, P.C.
2	35386.92	89838.46	4579.58	FL CURB/GUTTER, MID. PT.
3	35404.61	89845.78	4579.46	FL CURB/GUTTER, P.T.
4	35435.50	89845.73	4579.82	FL CURB/GUTTER, A.P.
5	35435.50	89809.25	4579.82	FL CURB/GUTTER, P.C.
6	35440.51	89880.24	4579.98	FL CURB/GUTTER, P.T.
7	35461.43	89960.24	4580.09	FL CURB/GUTTER, P.C.
8	35481.61	89957.77	4580.06	FL CURB/GUTTER, MID. PT.
9	35500.80	89950.53	4579.93	FL CURB/GUTTER, P.C.C.
10	35507.81	89944.83	4579.88	FL CURB/GUTTER, P.R.C.
11	35511.87	89829.61	4579.77	FL CURB/GUTTER, MID. PT.
12	35509.97	89829.78	4579.91	FL CURB/GUTTER, P.R.C.
13	35068.33	89830.81	4579.95	FL CURB/GUTTER, MID. PT.
14	35576.83	89828.68	4580.00	FL CURB/GUTTER, P.T.
15	35586.00	89820.82	4580.58	FL CURB/GUTTER, P.C.
16	35598.94	89833.89	4580.80	FL CURB/GUTTER, MID. PT.
17	35582.89	89840.47	4580.40	FL CURB/GUTTER, P.C.
18	35587.21	89843.67	4580.53	FL CURB/GUTTER, MID. PR.C.
19	35587.51	89850.49	4580.79	FL CURB/GUTTER, P.R.C.
20	35590.78	89950.81	4580.77	FL CURB/GUTTER, P.T.
21	35601.31	89836.74	4580.96	FL CURB/GUTTER, P.C.
22	35627.07	89824.30	4581.35	FL CURB/GUTTER, P.T.
23	35600.56	89859.26	4580.37	FL CURB/GUTTER, MID. P.C.
24	35895.48	89875.48	4580.22	FL CURB/GUTTER, P.R.C.
25	35581.47	89897.38	4580.12	FL CURB/GUTTER, MID. PT.
26	35578.34	89915.38	4580.39	FL CURB/GUTTER, MID. PR.C.
27	35572.63	89922.58	4580.50	FL CURB/GUTTER, P.C.C.
28	35965.94	89939.48	4580.87	FL CURB/GUTTER, MID. PT.
29	35683.04	89957.42	4580.97	FL CURB/GUTTER, P.R.C.
30	35568.03	89982.87	4580.87	FL CURB/GUTTER, P.T.

NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
31	35577.83	89982.69	4580.72	FL CURB/GUTTER, A.P.
32	35577.92	89969.03	4580.70	FL CURB/GUTTER
33	35847.91	89887.15	4581.29	FL CURB/GUTTER, P.T.
34	35548.08	89962.87	4581.37	FL CURB/GUTTER, P.T.
35	35548.48	89946.85	4581.30	FL CURB/GUTTER, P.C.
36	35351.88	89930.02	4580.94	FL CURB/GUTTER, P.R.C.
37	35848.58	89927.48	4580.89	FL CURB/GUTTER, P.R.C.
38	35341.34	89927.47	4580.72	FL CURB/GUTTER, P.R.C.
39	35539.25	89910.01	4580.78	FL CURB/GUTTER, P.R.C.
40	35842.47	89846.82	4581.04	FL CURB/GUTTER, P.T.
41	35542.84	89952.65	4581.13	FL CURB/GUTTER, P.T.
42	35042.91	89961.15	4581.05	FL CURB/GUTTER, P.C.
43	35513.23	89951.61	4580.27	FL CURB/GUTTER END
44	35522.83	89952.62	4580.33	FL CURB/GUTTER, P.C.
45	35527.83	89957.38	4580.36	FL CURB/GUTTER, P.R.C.
46	35523.14	89833.68	4580.17	FL CURB/GUTTER, P.C.C.
47	35510.17	89917.98	4579.90	FL CURB/GUTTER, MID. PT.
48	35489.58	89900.02	4580.03	FL CURB/GUTTER, P.C.C.
49	35461.47	89883.23	4580.09	FL CURB/GUTTER, P.T.
50	35440.54	89880.24	4579.98	FL CURB/GUTTER, P.C.
51	35435.55	89900.25	4579.84	FL CURB/GUTTER, P.T.
52	35435.56	89909.75	4580.25	FL CURB/GUTTER, A.P.
53	35456.03	89880.24	4580.50	FL CURB/GUTTER, P.C.
54	35456.02	89875.24	4580.50	FL CURB/GUTTER, P.T.
55	35468.31	89875.23	4580.56	FL CURB/GUTTER, P.C.
56	35470.52	89875.14	4580.58	FL CURB/GUTTER, P.T.
57	35476.52	89874.89	4580.55	FL CURB/GUTTER, P.C.
58	35493.15	89871.50	4580.48	FL CURB/GUTTER, P.R.C.
59	35485.89	89873.58	4580.52	FL CURB/GUTTER, P.C.C.

NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
60	35495.30	89881.82	4580.57	FL CURB/GUTTER, P.R.C.
61	35493.17	89883.92	4580.50	FL CURB/GUTTER, P.R.C.
62	35478.53	89880.75	4580.55	FL CURB/GUTTER, P.T.
63	35470.53	89880.32	4580.58	FL CURB/GUTTER, P.C.
64	35468.32	89880.23	4580.58	FL CURB/GUTTER, P.T.
65	35383.97	89834.92	4579.80	FL HANDICAP RAMP
66	35389.83	89840.81	4579.95	FL HANDICAP RAMP
67	35470.51	89859.73	4580.13	FL HANDICAP RAMP
68	35478.51	89858.86	4580.10	FL HANDICAP RAMP
69	35470.34	89880.70	4580.13	FL HANDICAP RAMP
70	35476.34	89896.56	4580.10	FL HANDICAP RAMP
71	35528.80	89948.63	4580.40	FL HANDICAP RAMP
72	35527.46	89952.63	4580.50	FL HANDICAP RAMP
73	35564.33	89948.87	4580.97	FL HANDICAP RAMP
74	35563.45	89952.67	4581.00	FL HANDICAP RAMP
75	35591.50	89830.23	4580.25	BACK OF WALK, P.C.
76	35428.93	89820.56	4580.90	BACK OF WALK, MID. PT.
77	35468.17	89830.38	4581.15	BACK OF WALK, P.R.C.
78	35488.13	89878.29	4581.05	BACK OF WALK, MID. PT.
79	35511.77	89929.87	4580.48	BACK OF WALK, P.R.C.
80	35532.59	89820.60	4580.44	BACK OF WALK, P.T.
81	35542.92	89958.86	4581.11	FL CURB/GUTTER P.C.
82	35547.92	89958.86	4581.35	FL CURB/GUTTER P.C.

ACCEPTED FOR CONSTRUCTION

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE

ACCEPTED AS CONSTRUCTED

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

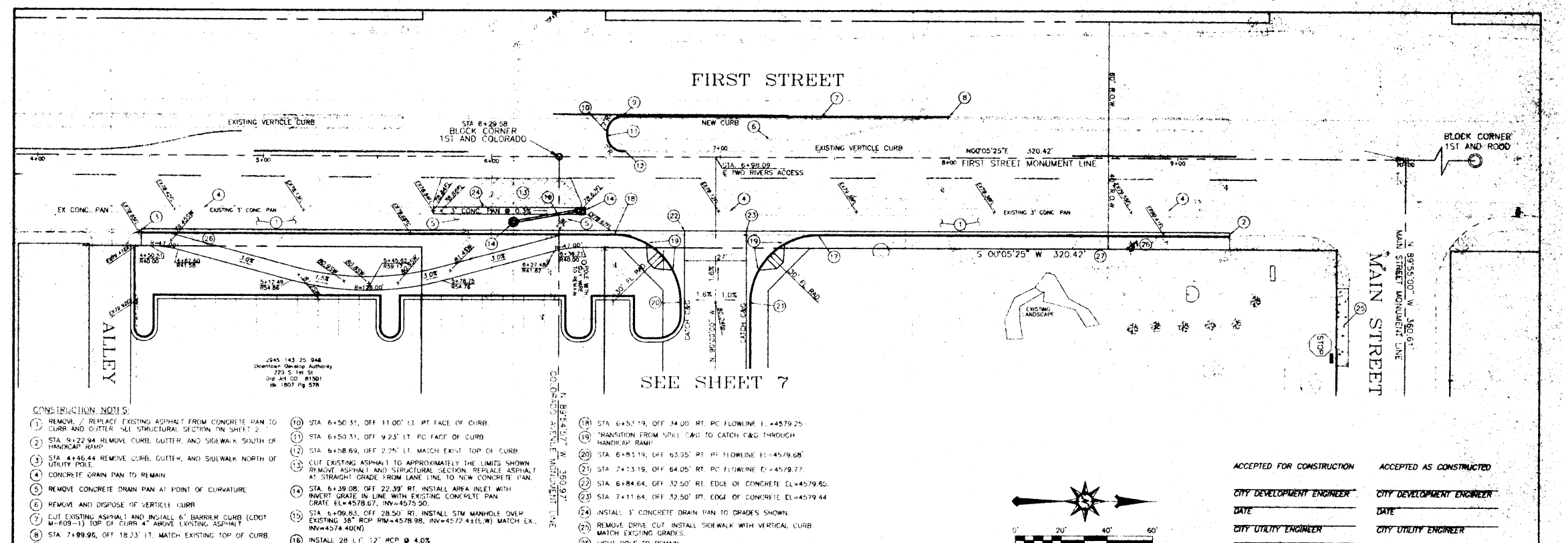
DATE

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 243-8300

4/26/01	FINAL CONSTRUCTION SET
File Name	C:\DOBB\DOBBRBIC.DWG

TWO RIVERS CONVENTION CENTER
2ND AND COLORADO CONTROL PLAN

Designed	ESS	Checked	TDR	Proj#	DOBB	Sheet	12
Drawn	ESS	Date	3/14/01	No.		Of	19



CONSTRUCTION NOTES:

1. REMOVE / REPLACE EXISTING ASPHALT FROM CONCRETE PAN TO CURB AND GUTTER. SEE STRUCTURAL SECTION ON SHEET 2.
2. STA. 9+22.94 REMOVE CURB, GUTTER, AND SIDEWALK SOUTH OF HANDICAP RAMP.
3. STA. 4+46.44 REMOVE CURB, GUTTER, AND SIDEWALK NORTH OF UTILITY POLE.
4. CONCRETE DRAIN PAN TO REMAIN.
5. REMOVE CONCRETE DRAIN PAN AT POINT OF CURVATURE.
6. REMOVE AND DISPOSE OF VERTICLE CURB.
7. CUT EXISTING ASPHALT AND INSTALL 6" BARRIER CURB (CDOT M-609-1) TOP OF CURB 4" ABOVE EXISTING ASPHALT.
8. STA. 7+99.96, OFF 18.23' LT. MATCH EXISTING TOP OF CURB.
9. STA. 6+57.29, OFF 18.00' LT. PC FACE OF CURB.
10. STA. 6+50.30, OFF 11.00' LT. PC FACE OF CURB.
10. STA. 6+50.31, OFF 11.00' LT. PT FACE OF CURB.
11. STA. 6+50.31, OFF 9.23' LT. PC FACE OF CURB.
12. STA. 6+38.69, OFF 2.25' LT. MATCH EXIST. TOP OF CURB.
13. CUT EXISTING ASPHALT TO APPROXIMATELY THE LIMITS SHOWN. REMOVE ASPHALT AND STRUCTURAL SECTION. REPLACE ASPHALT AT STRAIGHT GRADE FROM LANE LINE TO NEW CONCRETE PAN.
14. STA. 6+39.08, OFF 22.39' RT. INSTALL AREA INLET WITH INVERT GRATE IN LINE WITH EXISTING CONCRETE PAN. GRATE EL=4578.67, INV=4575.50.
15. STA. 6+96.63, OFF 28.50' RT. INSTALL STM MANHOLE OVER EXISTING 36" RCP. RIM=4578.98, INV=4572.4±(E,W) MATCH EX., INV=4574.40(N).
16. INSTALL 28 LF. 12" RCP @ 4.0%
17. STA. 7+43.19, OFF 34.00' RT. PT FLOWLINE EL=4579.67
18. STA. 6+53.19, OFF 34.00' RT. PC FLOWLINE EL=4579.25
19. TRANSITION FROM SPILL C&G TO CATCH C&G THROUGH HANDICAP RAMP.
20. STA. 6+83.19, OFF 63.35' RT. PT FLOWLINE EL=4579.68
21. STA. 7+13.19, OFF 64.05' RT. PC FLOWLINE EL=4579.77
22. STA. 6+84.64, OFF 32.50' RT. EDGE OF CONCRETE EL=4579.65
23. STA. 7+11.64, OFF 32.50' RT. EDGE OF CONCRETE EL=4579.44
24. INSTALL 3' CONCRETE DRAIN PAN TO GRADES SHOWN.
25. REMOVE DRIVE CUT. INSTALL SIDEWALK WITH VERTICAL CURB. MATCH EXISTING GRADES.
26. LIGHT POLE TO REMAIN.
27. GRADE LANDSCAPE AREA AT 4:1 AND RE-SEED.

0' 20' 40' 60'

ACCEPTED FOR CONSTRUCTION

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE

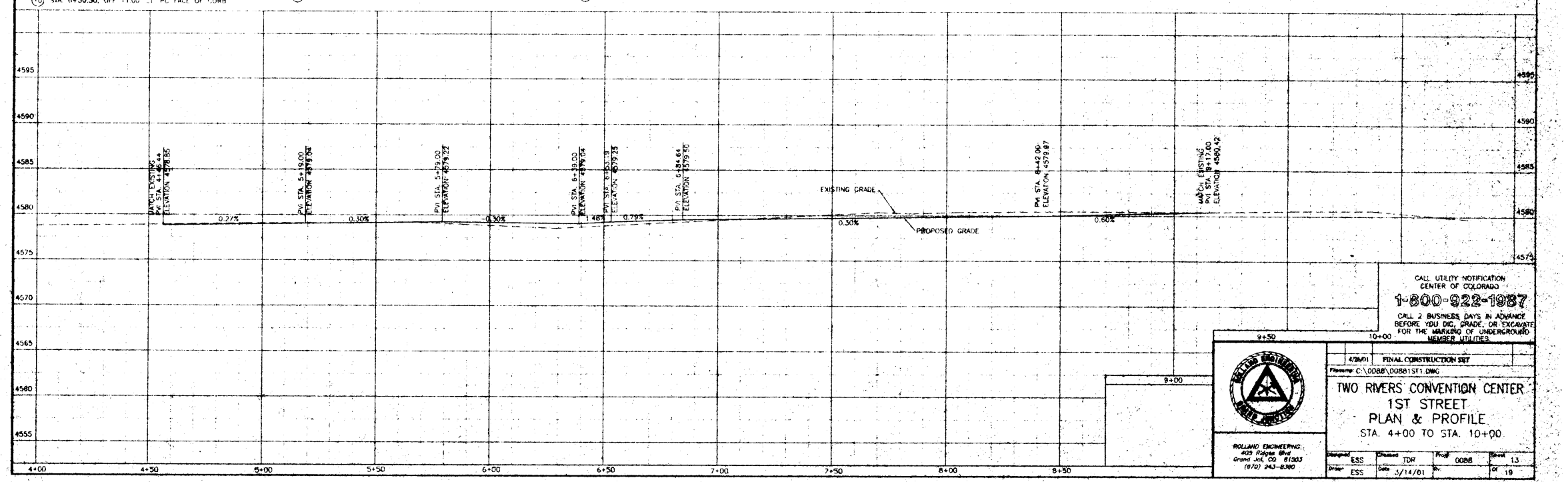
ACCEPTED AS CONSTRUCTED

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE



CALL UTILITY NOTIFICATION CENTER OF COLORADO

1-800-922-1987

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

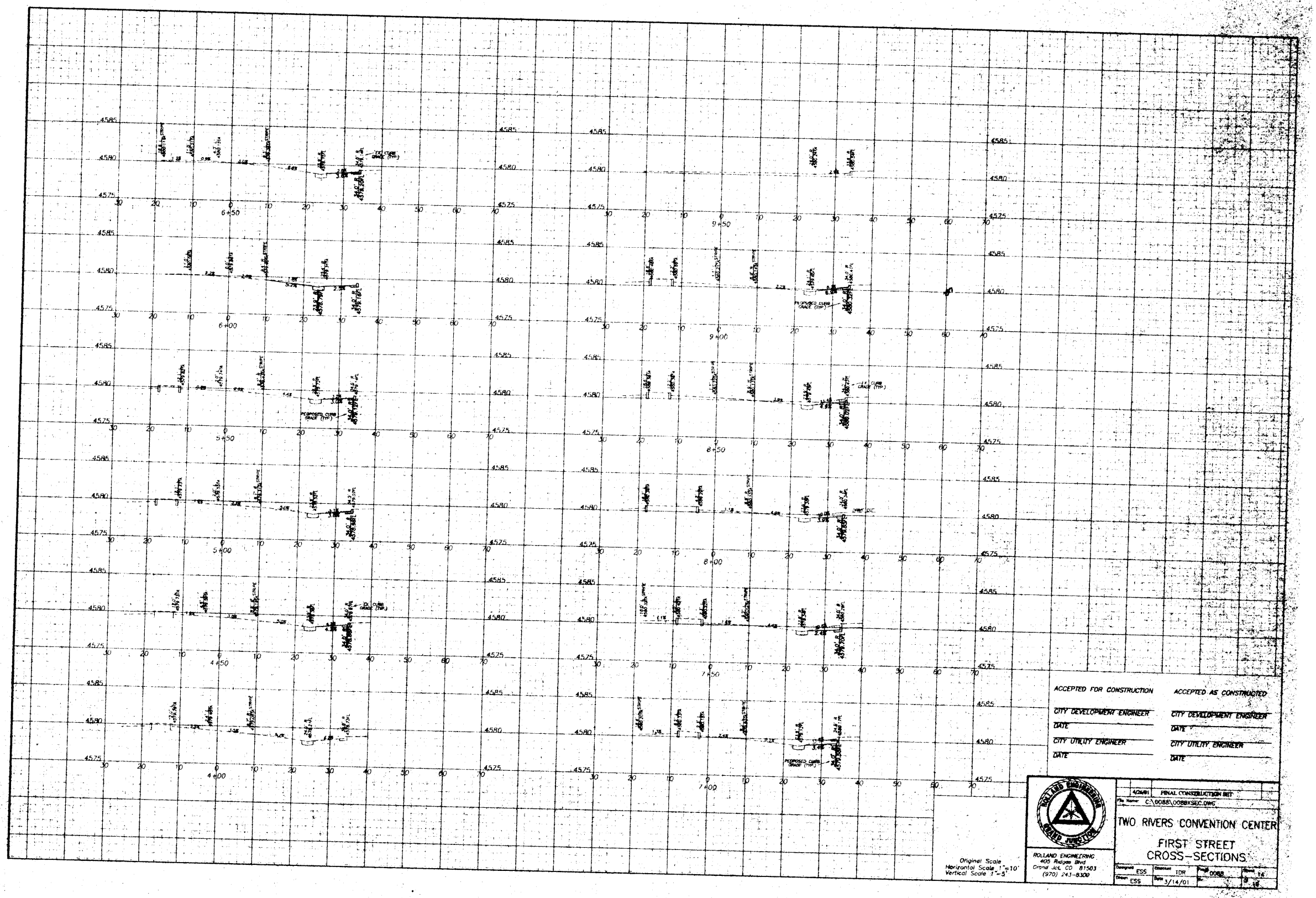
ROLLAND ENGINEERING
825 Rapids Blvd
Grand Jct, CO 81503
(970) 243-8300

4/26/01	FINAL CONSTRUCTION SET

Filename: C:\0088\00881ST1.DWG

TWO RIVERS CONVENTION CENTER
1ST STREET
PLAN & PROFILE
STA. 4+00 TO STA. 10+00

Designed	ESS	Checked	TDR	Proj#	0088
Drawn	ESS	Date	3/14/01	Sht	13 of 19



ACCEPTED FOR CONSTRUCTION

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE

ACCEPTED AS CONSTRUCTED

CITY DEVELOPMENT ENGINEER

DATE

CITY UTILITY ENGINEER

DATE

Original Scale
Horizontal Scale 1"=10'
Vertical Scale 1"=5'

ROLLAND ENGINEERING
405 Ridges Blvd
Grand Jct, CO 81503
(970) 241-8300

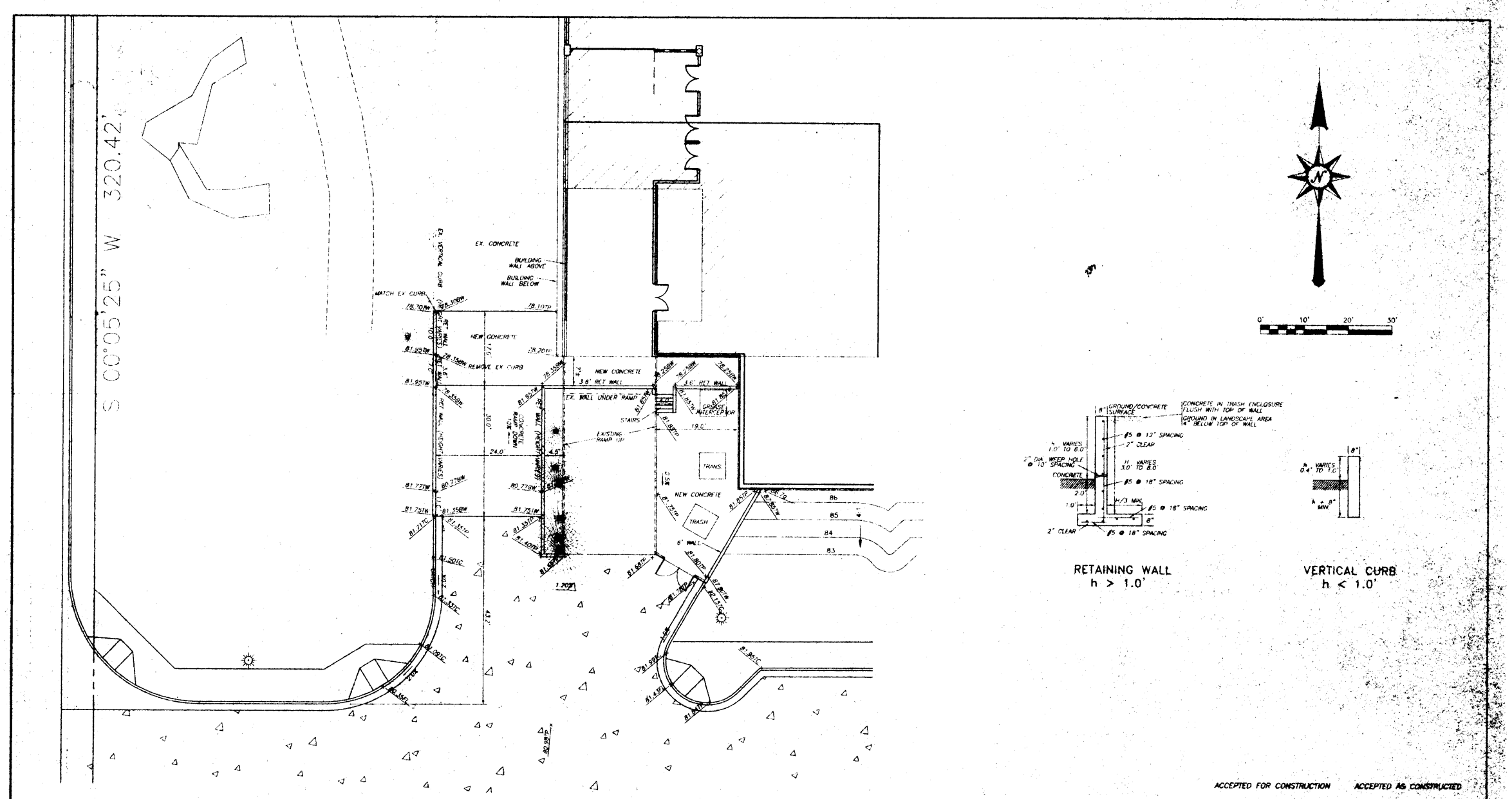
4/24/01 FINAL CONSTRUCTION SET

File Name: C:\0088\0088XSEC.DWG

TWO RIVERS CONVENTION CENTER

FIRST STREET CROSS-SECTIONS

Designed	ESS	Checked	JDR	Project	0088	Sheet	14
Drawn	ESS	Date	3/14/01	No.		of	14



RETAINING WALL
h > 1.0'

VERTICAL CURB
h ≤ 1.0'

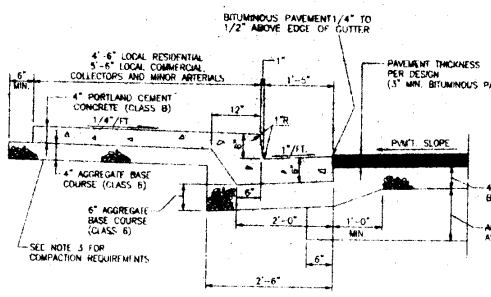
ACCEPTED FOR CONSTRUCTION	ACCEPTED AS CONSTRUCTED
CITY DEVELOPMENT ENGINEER	CITY DEVELOPMENT ENGINEER
DATE	DATE
CITY UTILITY ENGINEER	CITY UTILITY ENGINEER
DATE	DATE

ROLLAND ENGINEERING
406 Rogers Blvd
Grand Jct, CO 81503
(970) 243-8300

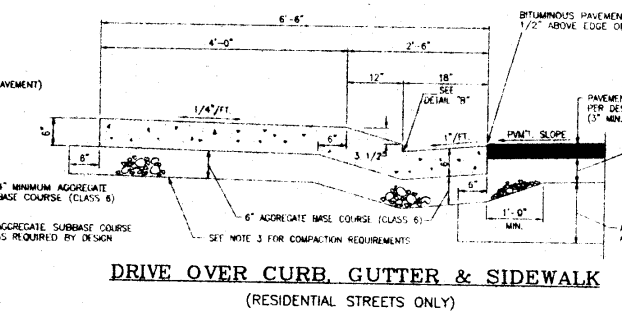
42601 - FINAL CONSTRUCTION SET
File Name: C:\2000\COVERSHT.DWG

TWO RIVERS CONVENTION CENTER
SERVICE AREA PLAN

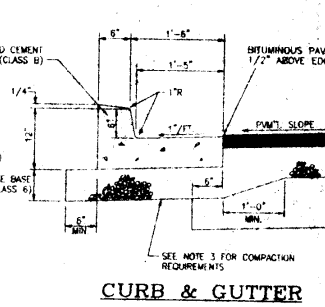
Designed	CSS	Checked	TDP	Proj.	0088	Sheet	10
Drawn	ESS	Date	3/28/01	No.		of	19



MONOLITHIC CURB, GUTTER & SIDEWALK
SECTION F–F



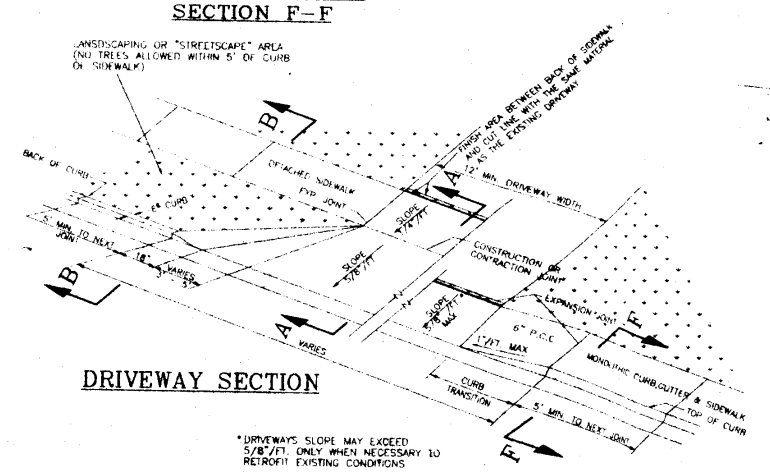
DRIVE OVER CURB, GUTTER & SIDEWALK
(RESIDENTIAL STREETS ONLY)



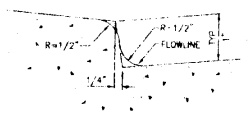
CURB & GUTTER

GENERAL NOTES

1. ALL PORTLAND CEMENT CONCRETE SHALL BE COLORADO DEPARTMENT OF TRANSPORTATION CLASS "B". ALL CONCRETE SHALL BE MIXED, PLACED, CURED AND TESTED IN ACCORDANCE WITH CITY OF GRAND JUNCTION STREET CONSTRUCTION SPECIFICATIONS.
2. ALL CONCRETE WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A LICENSED CITY CONTRACTOR. A CITY PERMIT IS REQUIRED AT EACH LOCATION WHERE CONCRETE IS REMOVED, ALTERED OR PLACED.
3. ALL CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, RAMPS, DRAINAGE PANS AND OTHER CONCRETE WORK SHALL BE UNDERLAID WITH AGGREGATE BASE COURSE (CLASS 6) COMPACTED TO AT LEAST 95% OF AASHTO T-180 MAXIMUM DENSITY. SEE DETAILS FOR BASE THICKNESS. THE TOP 18 INCHES OF SUBGRADE UNDER ALL CONCRETE SHALL BE COMPACTED TO AT LEAST 95% OF AASHTO T-99 MAXIMUM DENSITY. ALL SATURATED OR UNSTABLE SUBGRADE MATERIAL SHALL BE REMOVED AND REPLACED.
4. ALL EXISTING PAVEMENT NOT DESIGNATED FOR REMOVAL WHICH IS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN-KIND BY CONTRACTOR.
5. ALL DRIVEWAY CONCRETE (APRON AND SIDEWALK CROSSING) SHALL BE 6 INCHES THICK (MIN.) FOR RESIDENTIAL USES AND 8" THICK (MIN.) FOR ALL OTHER USES.
6. TRANSVERSE EXPANSION JOINTS SHALL BE PROVIDED IN ALL CURBS, GUTTERS, SIDEWALKS, DRAINAGE PANS, ETC., AT ENDS OF HORIZONTAL CURVES, AT EDGES OF DRIVEWAY SECTIONS AND AT MAXIMUM SPACING OF 200'. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 10' MAX SPACING.
7. VEHICULAR TRAFFIC SHALL BE KEPT OFF NEW CONCRETE FOR A MINIMUM OF FIVE DAYS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
8. AN APPROVED CURING/SEALING COMPOUND SHALL BE APPLIED TO ALL EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.
9. ALL CONCRETE SHALL BE PROTECTED FROM FREEZING FOR 5 DAYS AFTER BEING PLACED. NO CONCRETE SHALL BE PLACED ON FROZEN GROUND.
10. UNDER NO CIRCUMSTANCES SHALL WATER BE ADDED TO CONCRETE SURFACES DURING FINISHING OPERATIONS.
11. HANDICAP RAMPS SHALL BE INSTALLED AT EACH CORNER OF ALL STREET INTERSECTIONS. SEE EXHIBIT "G" FOR DETAILS.



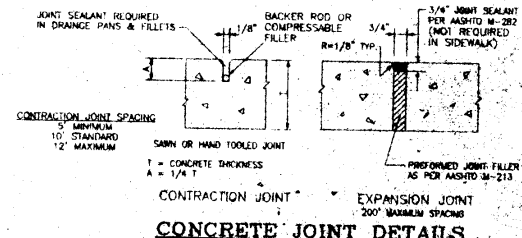
DRIVEWAY SECTION



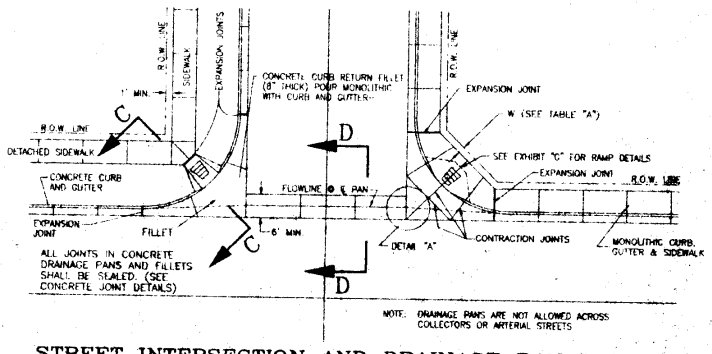
DETAIL "B"

RADII AND RIGHT-OF-WAY WIDTH AT INTERSECTION CORNER		
INTERSECTING STREETS	RADIUS TO FLOWLINE OF GUTTER	MIN. WIDTH (W) FROM BACK OF SIDEWALK TO RIGHT-OF-WAY LINE
ARTERIAL – ARTERIAL	35'	5'
ARTERIAL – ALL OTHER STREETS	30'	5'
COLLECTOR – COLLECTOR	30'	2'
COLLECTOR – RESIDENTIAL	25'	2'
COLLECTOR – INDUSTRIAL	30'	2'
RESIDENTIAL – RESIDENTIAL	20'	2'
INDUSTRIAL – INDUSTRIAL	30'	2'

NOTE: USE COLLECTOR STREET DIMENSIONS FOR COMMERCIAL STREETS

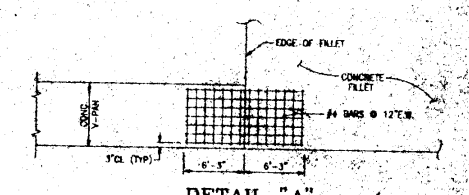


CONCRETE JOINT DETAILS

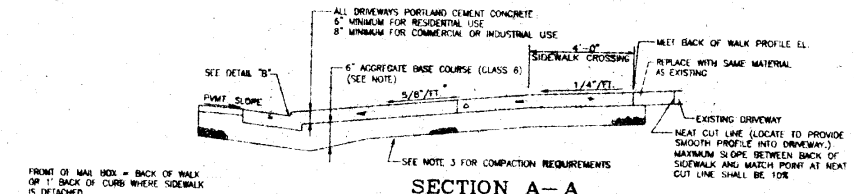


NOTE: DRAINAGE PANS ARE NOT ALLOWED ACROSS COLLECTORS OR ARTERIAL STREETS

STREET INTERSECTION AND DRAINAGE PAN DETAILS

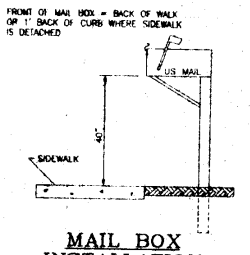


DETAIL "A"

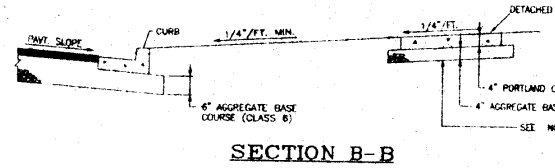


SECTION A–A

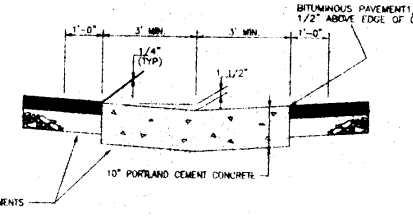
NOTE: CONCRETE AND AGGREGATE THICKNESS SHOWN ALSO APPLY TO MONOLITHIC C.G. & SW.



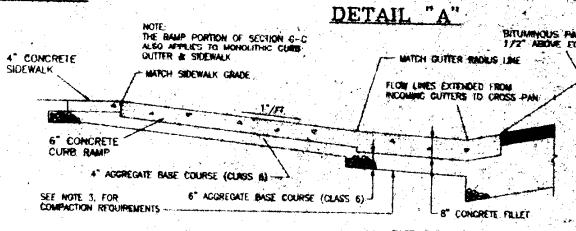
MAIL BOX INSTALLATION



SECTION B–B



SECTION D–D



SECTION C–C

DESCRIPTION	DATE
ADOPTED BY CITY COUNCIL RESOLUTION	7/1/92
REVISION BY CITY COUNCIL RESOLUTION	6/15/94
REVISION	
REVISION	

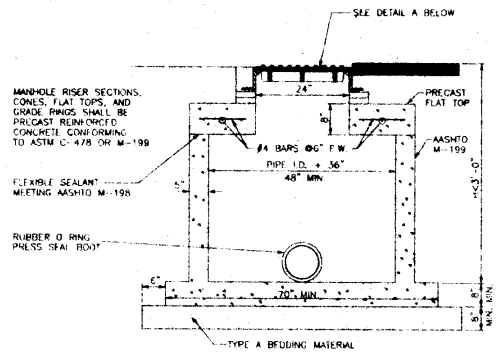
DRAWN BY N.D.P. DATE 6/29/92
CHECKED BY T.A.B. DATE 6/29/92
APPROVED BY J.D.H. DATE 6/29/92
FIELD BOOK NO. PAGE

SCALE: PLAN HORIZ. N.T.S. PROFILE HORIZ. VERT.

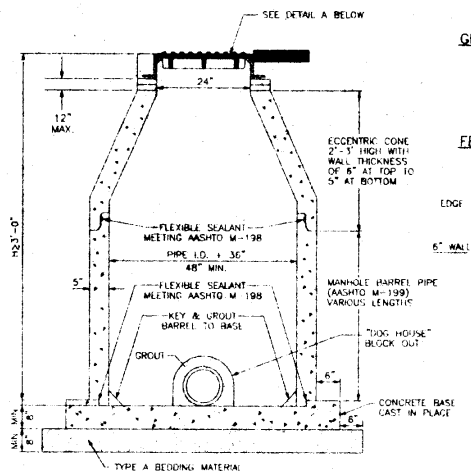
DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION 244-1554
CITY OF GRAND JUNCTION, COLORADO

EXHIBIT "E"
STANDARD CONCRETE DETAILS

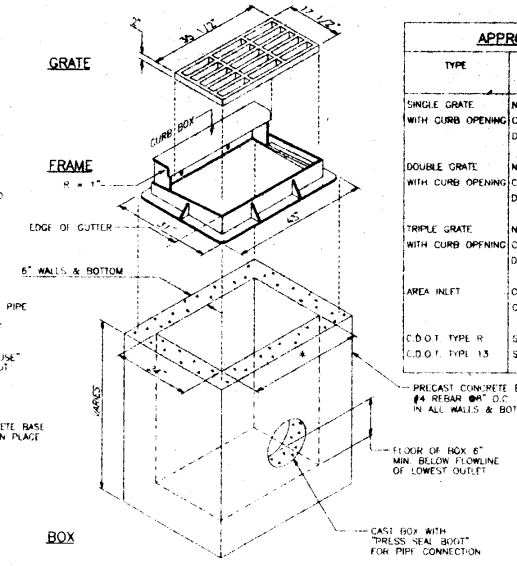
SHEET NO. 16
OF
FILE NO.



STANDARD SHALLOW MANHOLE PRECAST BASE ⚠



STANDARD MANHOLE CAST-IN-PLACE BASE ⚠

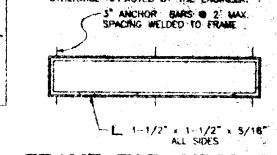


STORM DRAIN INLET WITH CURB OPENING ⚠

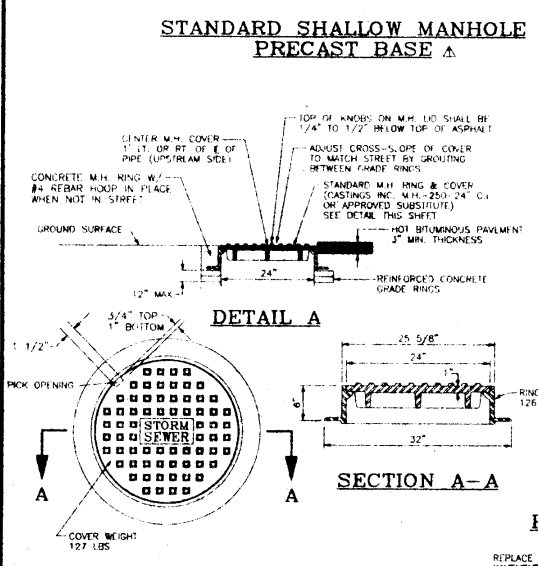
APPROVED STORM DRAIN INLETS			
TYPE	FRAME	GRATE TYPE	BOX DIM. INSIDE
SINGLE GRATE	NEENAH R-3246	C,D,R,DL,L,V	24" X 36"
WITH CURB OPENING	CASTINGS R-3246	C,D,R,DL,L,W	
	DEETER 2045	C,D,R,DL,L,V	
DOUBLE GRATE	NEENAH R-3298 - A	C,D,R,DL,L,V	24" X 72"
WITH CURB OPENING	CASTINGS R-3246,DOUBLE	C,D,R,DL,L,V	
	DEETER R-2045,DOUBLE	C,D,R,DL,L,V	
TRIPLE GRATE	NEENAH R-3246-B	C,D,R,DL,L,V	24" X 110"
WITH CURB OPENING	CASTINGS R-3246,TRIPLE	C,D,R,DL,L,V	
	DEETER 2045,TRIPLE	C,D,R,DL,L,V	
AREA INLET	CASTINGS CI-19 X 27	G	20" X 30"
	OR CASTINGS NO. 13	G	19 1/2"x35 1/2"
C.D.O.T. TYPE R	SEE STANDARD M-604-17		
C.D.O.T. TYPE 13	SEE STANDARD M-604-13		

GENERAL NOTES: ⚠

1. BACKFILL AROUND MANHOLES, INLET BOXES, AND OTHER STRUCTURES SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 95% AASHTO T-99.
2. ALL PORTLAND CEMENT CONCRETE SHALL BE COLORADO DIVISION OF HIGHWAYS CLASS "B" (SECTION 601.02)
3. ANY EXISTING PAVEMENT NOT DESIGNATED FOR REMOVAL WHICH IS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN-KIND BY CONTRACTOR.
4. ALL CONCRETE WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A LICENSED CURB, GUTTER AND SIDEWALK CONTRACTOR.
5. SEE PLAN SHEETS FOR ALL PIPE SIZES, GRADES, AND ELEVATIONS.
6. ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS AND CITY SPECIFICATIONS.
7. MANHOLE RING AND COVER CAN BE SET TO FINISH GRADE USING NON-SHRINK GROUT TO ADJUST RIM ELEVATION. GROUT SHALL NOT EXCEED 0.10 FT. THICKNESS. GROUT SHALL BE PLACED ONLY UNDER RING CAST FROM RINGS. NO GROUT SHALL BE PLACED BETWEEN CONCRETE GRADE RINGS. STEEL PAVING RINGS ARE NOT ALLOWED FOR GRADE ADJUSTMENT UNLESS OTHERWISE APPROVED BY THE ENGINEER.



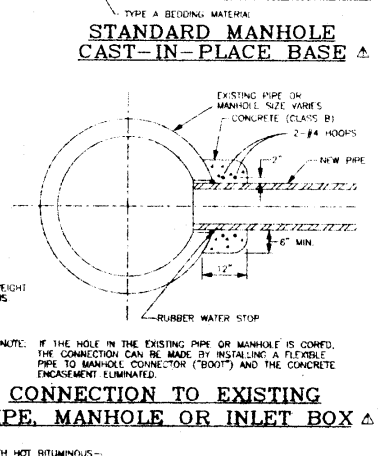
FRAME FOR SIDEWALK DRAIN TROUGH



DETAIL A

SECTION A-A

STANDARD CAST IRON MANHOLE RING & COVER ⚠



NOTE: IF THE HOLE IN THE EXISTING PIPE OR MANHOLE IS CORED, THE CONNECTION CAN BE MADE BY INSTALLING A FLEXIBLE PIPE TO MANHOLE CONNECTOR ("BOOT") AND THE CONCRETE ENCASEMENT ELIMINATED.

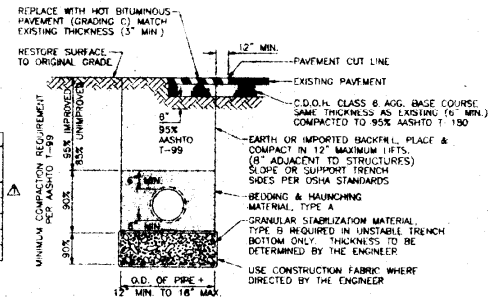
CONNECTION TO EXISTING PIPE, MANHOLE OR INLET BOX ⚠

MAXIMUM PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES			
SIEVE SIZE	PIPE BEDDING & HAUNCHING MATERIAL (TYPE A)	GRANULAR STABILIZATION MATERIAL (SCREENED OR CRUSHED ROCK TYPE B)	IMPORTED MATERIAL (TO BE USED WHERE SPECIFIED OR DIRECTED BY THE ENGINEER)
12 INCH	---	100	---
2 INCH	---	100	---
1 INCH	100	---	---
NO 4	---	15 MAX	---
NO 200	20 MAX	---	12% 20%

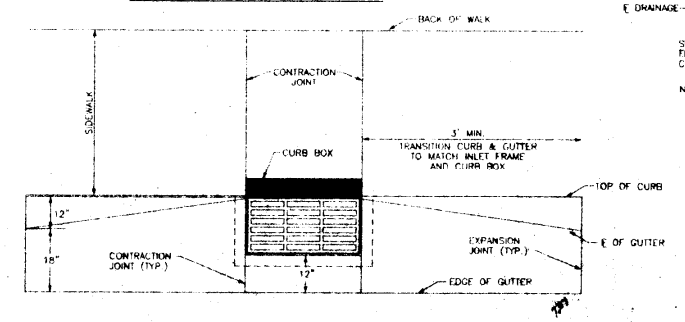
IMPORTED MATERIAL SHALL ALSO MEET HAZEN UNIFORMITY COEF. (C_u) > 6 AND COEFFICIENT OF CURVATURE (C_c) 1 TO 8 AND PLASTICITY INDEX (PI) MAXIMUM OF 7.

ALL BACKFILL MATERIAL SHALL BE PLACED FULL WIDTH IN 12" MAX. LIFTS. (8" LIFTS ADJACENT TO STRUCTURES) AND COMPACTED TO THE MIN. RELATIVE DENSITIES SHOWN

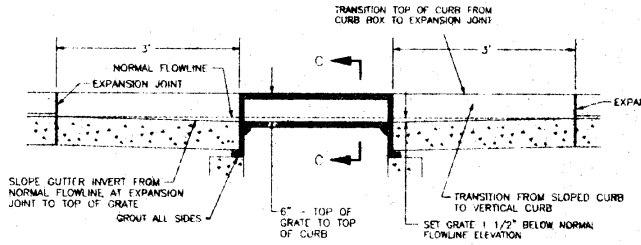
NOTE: NATIVE MATERIAL MAY BE USED IN LIEU OF GRANULAR BEDDING & HAUNCHING MATERIAL IF APPROVED BY THE ENGINEER AND THE NATIVE MATERIAL IS IN COMPLIANCE WITH SIZE REQUIREMENTS FOR TYPE A".



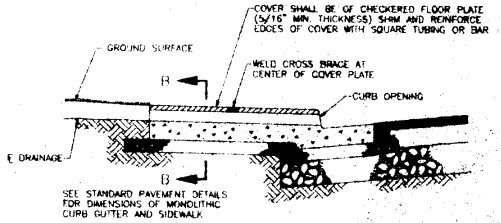
TYPICAL TRENCH DETAIL ⚠



GUTTER INLET DETAIL ⚠

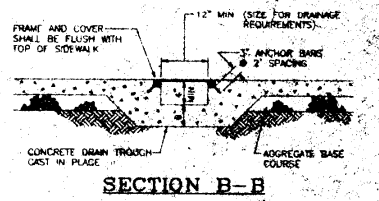


CURB INLET INSTALLATION WITH ⚠ DRIVE OVER CURB, GUTTER AND SIDEWALK

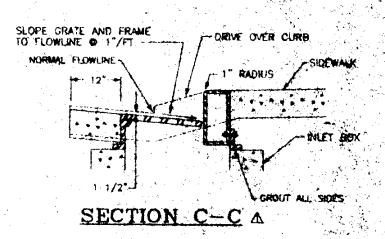


NOTE: BOTH FRAME AND COVER SHALL BE FABRICATED OF STEEL. ALL STEEL SURFACES SHALL BE GALVANIZED PER AASHTO M-111

DRAIN TROUGH FOR SIDEWALK CROSSING



SECTION B-B



SECTION C-C ⚠

DESCRIPTION	DATE
ADOPTED BY CITY COUNCIL RESOLUTION	7/1/92
REVISION BY CITY COUNCIL RESOLUTION	6/15/94
REVISION ⚠	JUNE 1996
REVISION	

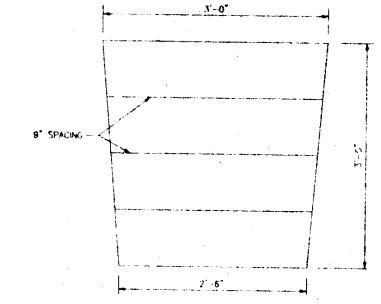
DRAWN BY KADEL DATE 6/29/92
CHECKED BY T.A.B. DATE 6/29/92
APPROVED BY J.O.N. DATE 6/29/92
FIELD BOOK NO. PAGE

SCALE: PLAN HORIZ. N.T.S. VERT. — PROFILE HORIZ. VERT.

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION 244-1554
CITY OF GRAND JUNCTION, COLORADO

EXHIBIT "F"
STANDARD STORM DRAIN DETAILS

SHEET NO. 17
OF 19
FILE NO. 47
EX-F-96.DWG



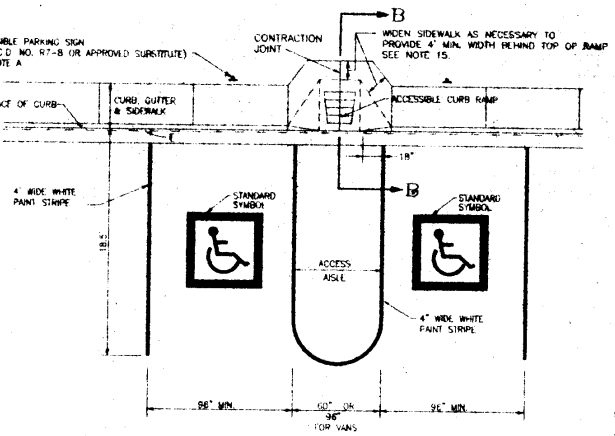
DETAIL FOR RAMP DETECTABLE WARNING

NOTE: GROOVES IN PATTERN ARE 1/4" MAX. DEPTH X 1/4" MAX. WIDTH

TOTAL PARKING IN LOT	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 PERCENT OF TOTAL
1001 AND OVER	20 PLUS 1 FOR EACH 100 OVER 1000

ACCESSIBLE PARKING REQUIREMENTS

PER ADA 4.1.2(5)(a)



NOTES:

A. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR THE DISABLED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY (SEE UFAS 4.30.5). SPACES COMPLYING WITH NOTE B SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY. SUCH SIGNS SHALL BE MOUNTED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

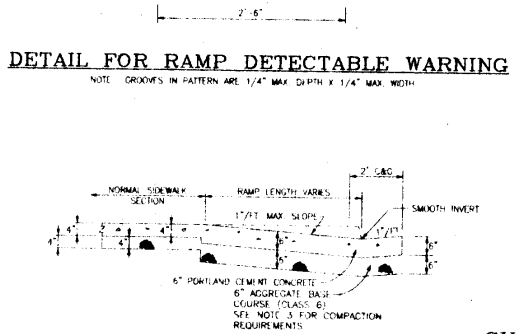
B. ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96" WIDE AND SHALL BE DESIGNATED "VAN ACCESSIBLE" AS SPECIFIED BY NOTE A.

C. PARKING ACCESS AISLES SHALL BE PART OF AN ACCESS ROUTE TO THE BUILDING OR FACILITY ENTRANCE. TWO ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

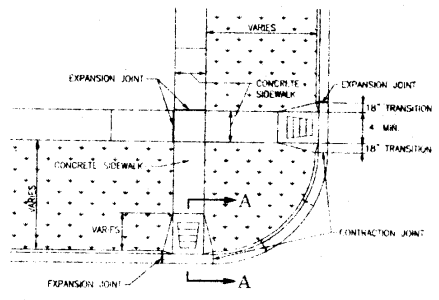
GENERAL NOTES ⚠

1. ALL PORTLAND CEMENT CONCRETE SHALL BE COLORADO DEPARTMENT OF TRANSPORTATION CLASS "B". ALL CONCRETE SHALL BE MIXED, PLACED, CURED AND TESTED IN ACCORDANCE WITH CITY OF GRAND JUNCTION STREET CONSTRUCTION SPECIFICATIONS.
2. ALL CONCRETE WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A LICENSED CURB, GUTTER & SIDEWALK CONTRACTOR. A PERMIT IS REQUIRED AT EACH SITE WHERE CONCRETE IS REMOVED, ALTERED OR PLACED.
3. ALL CONCRETE RAMPS, SIDEWALKS, CURBS, GUTTERS AND OTHER CONCRETE WORK SHALL BE UNDERLAID WITH AGGREGATE BASE COURSE (CLASS 6) COMPACTED TO AT LEAST 95% OF AASHTO T-180 MAXIMUM DENSITY. SEE DETAILS FOR BASE THICKNESS. THE TOP 6 INCHES OF SUBGRADE UNDER ALL CONCRETE SHALL BE COMPACTED TO AT LEAST 95% OF AASHTO T-99 MAXIMUM DENSITY. ALL SATURATED OR UNSUITABLE SUBGRADE MATERIAL SHALL BE REMOVED AND REPLACED.

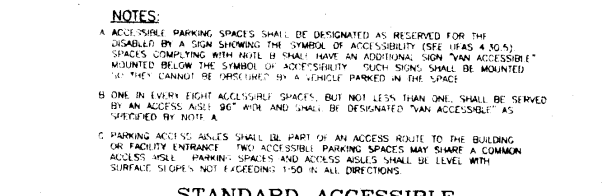
   ANY EXISTING PAVEMENT NOT DESIGNATED FOR REMOVAL WHICH IS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN-KIND BY CONTRACTOR.
5. DRAWING INDICATES TYPICAL SECTION ONLY. CONDITIONS AND/OR OBSTRUCTIONS MAY NECESSITATE VARIATIONS OR REPOSITIONING. ALL LOCATIONS SHALL BE APPROVED ON AN INDIVIDUAL BASIS BY THE ENGINEER OR HIS REPRESENTATIVE.
6. ACCESSIBLE CURB RAMPS AT INTERSECTIONS SHALL BE ALIGNED WITH STREET CROSSWALKS.
7. AN APPROVED CURING/SEALING COMPOUND SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACE IMMEDIATELY AFTER FINISHING.
8. ALL CONCRETE SHALL BE PROTECTED FROM FREEZING FOR 5 DAYS AFTER BEING PLACED. NO CONCRETE SHALL BE PLACED ON FROZEN GROUND.
9. MINIMUM SPACING BETWEEN JOINTS IN CURB, GUTTER & SIDEWALK IS 5 FEET.
10. WATER SHALL NOT BE ADDED TO CONCRETE SURFACES DURING FINISHING OPERATIONS.
11. THE MAXIMUM LONGITUDINAL SLOPE ALLOWED ON ANY CURB RAMP OR SIDEWALK SHALL BE 1"/FT. (8.33%).
12. THE SURFACE OF ALL ACCESSIBLE RAMPS AND FLARED SIDES SHALL BE FINISHED WITH A COARSE BROOMED TEXTURE PERPENDICULAR TO THE SLOPE OF THE RAMP.
13. ALL HANDICAP RAMPS, PARKING STALLS AND LANDINGS, SHALL CONFORM TO THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) LATEST EDITION.



SECTION A–A ⚠



CURB RAMP(S) AT INTERSECTING SIDEWALK



CONTRACTION JOINT DETAIL ⚠

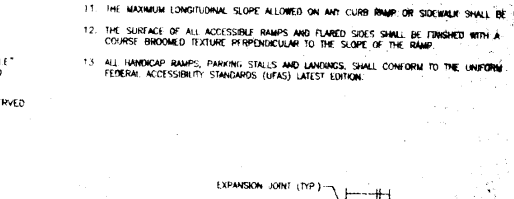
SECTION B–B ⚠

ALTERNATE RAMP ⚠

WITHOUT LANDING BEHIND RAMP
(FOR RETROFIT ON EXISTING STREETS ONLY)

SECTION C–C ⚠

CURB RAMP WITH DETACHED SIDEWALKS ⚠



RAMP IN MONOLITHIC CURB, GUTTER AND SIDEWALK ⚠

RAMP IN MONOLITHIC CURB, GUTTER AND SIDEWALK WITH CONCRETE FILLET ⚠

DESCRIPTION	DATE
ADOPTED BY CITY COUNCIL RESOLUTION	7/1/92
REVISION BY CITY COUNCIL RESOLUTION ⚠	6/15/94
REVISION ⚠	JUNE 1996
REVISION	

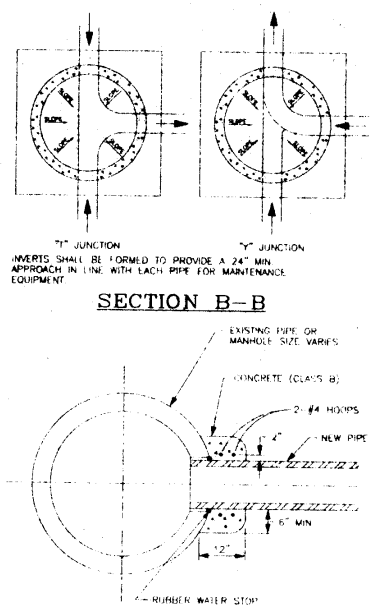
DRAWN BY N.O.P. DATE 6/29/92
CHECKED BY T.A.B. DATE 6/29/92
APPROVED BY J.D.N. DATE 6/29/92
FIELD BOOK NO. PAGE

SCALE: PLAN HORIZ. N.T.S. VERT. / PROFILE HORIZ. VERT.

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION 244-1554
CITY OF GRAND JUNCTION, COLORADO

EXHIBIT "G"
ACCESSIBLE RAMP AND PARKING STALL DETAILS

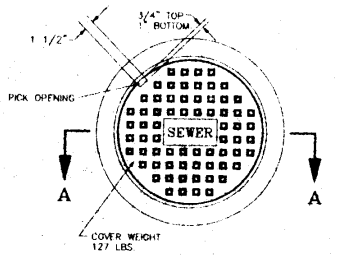
SHEET NO. 16
OF 16
FILE NO.
PROJECT NO.



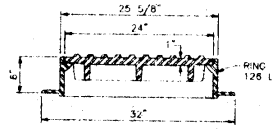
SECTION B–B

NOTE: IF THE HOLE IN THE EXISTING PIPE OR MANHOLE IS CORED, THE CONNECTION CAN BE MADE BY INSTALLING A FLEXIBLE PIPE TO MANHOLE CONNECTION ("CRAFCO") AND THE CONCRETE ENCASEMENT ELIMINATED.

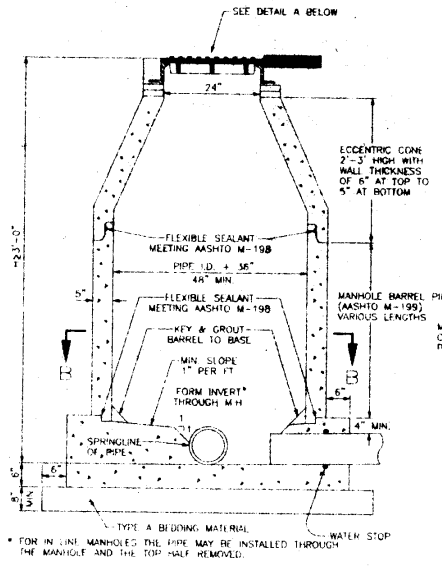
CONNECTION TO EXISTING MANHOLE OR INLET BOX



STANDARD CAST IRON ⚠ MANHOLE RING & COVER

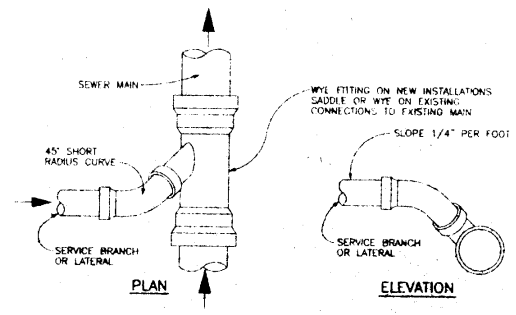


SECTION A–A



* FOR IN-LINE MANHOLES THE PIPE MAY BE INSTALLED THROUGH THE MANHOLE AND THE TOP HALF REMOVED.

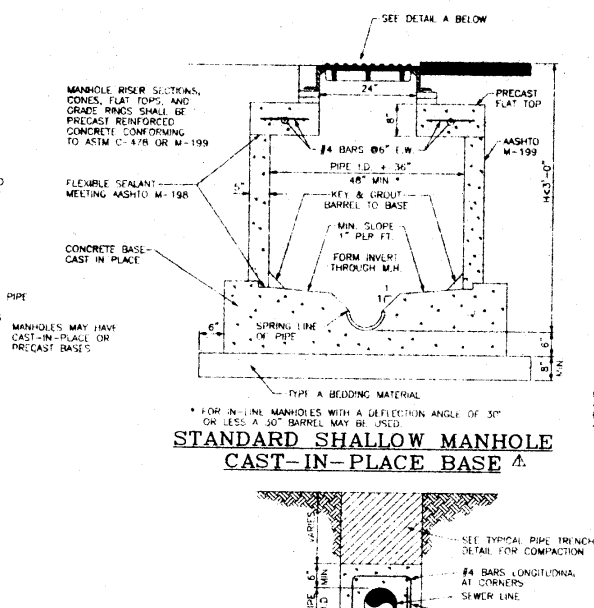
STANDARD MANHOLE ⚠ CAST–IN–PLACE BASE



TYPICAL SERVICE "Y" CONNECTION ⚠

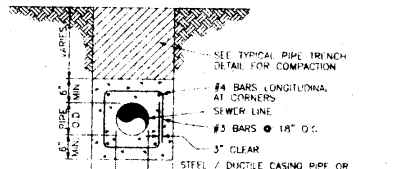
GENERAL NOTES; ⚠

1. CONCRETE SHALL BE COLORADO DEPARTMENT OF TRANSPORTATION CLASS "B" (SECTION 601.02)
2. ALL CEMENT USED IN MORTAR, CONCRETE BASES, GRADE RINGS, RISER SECTIONS, CONES, AND FLAT TOPS, FOR SANITARY SEWER MANHOLES, SHALL BE TYPE V OR MODIFIED TYPE II PORTLAND CEMENT WITH LESS THAN 5% TRICALCIUM ALUMINATE.
3. MANHOLE RISER SECTIONS, CONES, FLAT TOPS, AND GRADE RINGS SHALL BE PRECAST REINFORCED CONCRETE CONFORMING TO ASTM C-478 OR AASHTO M-199.
4. BACKFILL AROUND MANHOLES AND OTHER STRUCTURES SHALL BE PLACED IN 8" MAX. LIFTS AND COMPACTED TO 95% AASHTO T-99
5. ALL WORK SHALL BE IN ACCORDANCE WITH APPROVED PLANS AND CITY SPECIFICATION.
6. MANHOLE CONE AND FLAT TOP SECTIONS SHALL BE POSITIONED SUCH THAT THE MANHOLE RING AND COVER IS CENTERED ON THE UPSTREAM FLOW LINE.
7. IF THE MANHOLE SECTIONS ARE FURNISHED WITH STEPS THEY SHALL BE INSTALLED AT A 12" OFFSET FROM INLET PIPE.
8. MANHOLE RING AND COVER CAN BE SET TO FINISH GRADE USING NON-SHRINK GROUT TO ADJUST FOR ELEVATION. GROUT SHALL NOT EXCEED 0.10 FT. THICKNESS. GROUT SHALL BE PLACED BETWEEN CONCRETE GRADE RINGS. STEEL PAVING RINGS ARE NOT ALLOWED FOR GRADE ADJUSTMENT UNLESS OTHERWISE APPROVED BY THE ENGINEER.

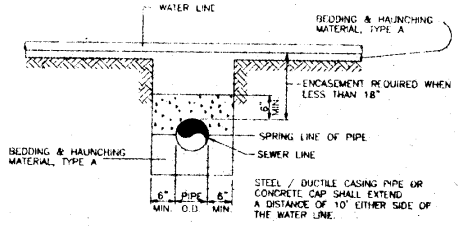


* FOR IN-LINE MANHOLES WITH A DEFLECTION ANGLE OF 30° OR LESS A 30" BARREL MAY BE USED.

STANDARD SHALLOW MANHOLE CAST–IN–PLACE BASE ⚠

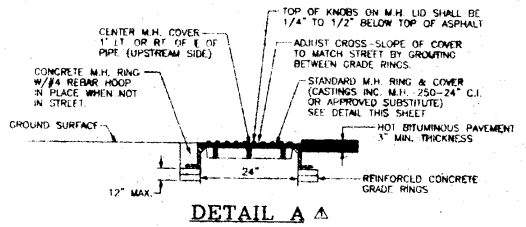


WATER LINE BELOW SEWER LINE



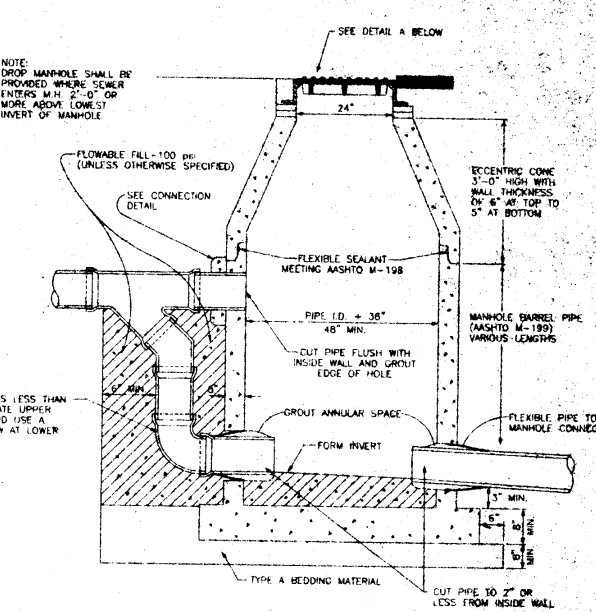
WATER LINE ABOVE SEWER LINE.

CONCRETE ENCASEMENT DETAILS

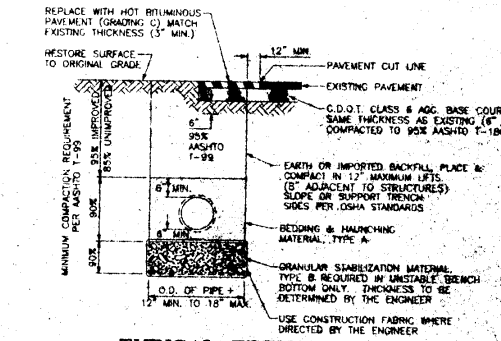


DETAIL A ⚠

NOTE:
DROP MANHOLE SHALL BE PROVIDED WHERE SEWER ENTERS M.H. 2'-0" OR MORE ABOVE LOWEST INVERT OF MANHOLE



DROP MANHOLE PRECAST BASE ⚠



TYPICAL TRENCH DETAIL ⚠

SIEVE SIZE	MAXIMUM PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES		
	PIPE BEDDING & HAUNCHING MATERIAL (TYPE A)	GRANULAR STABILIZATION MATERIAL (SCREENED OR CRUSHED ROCK TYPE B)	IMPORTED MATERIAL (TO BE USED WHERE SPECIFIED OR DIRECTED BY THE ENGINEER) ⚠
2 INCH	---	---	100
1 INCH	---	100	---
1/2 INCH	100	---	---
NO 4	---	15 MAX	---
NO 200	20 MAX	---	35% - 70%

IMPORTED MATERIAL SHALL ALSO MEET HAZEN UNIFORMITY COEF. (C_u) > 6 AND COEFFICIENT OF CURVATURE (C_c) 1 TO 3 AND PLASTICITY INDEX (PI) MAXIMUM OF 7.

ALL BACKFILL MATERIAL SHALL BE PLACED FULL WIDTH IN 12" MAX. LIFTS (8" LIFTS ADJACENT TO STRUCTURES) AND COMPACTED TO THE MIN. RELATIVE DENSITIES SHOWN.

NOTE: NATIVE MATERIAL MAY BE USED IN LIEU OF GRANULAR BEDDING & HAUNCHING MATERIAL IF APPROVED BY THE ENGINEER AND THE NATIVE MATERIAL IS IN COMPLIANCE WITH SIZE REQUIREMENTS FOR "TYPE A".

DESCRIPTION	DATE
ADOPTED BY CITY COUNCIL RESOLUTION	7/1/92
REVISION BY CITY COUNCIL RESOLUTION ⚠	6/15/94
REVISION ⚠	6/96
REVISION	

DRAWN BY N.O.P. DATE 6/27/92
CHECKED BY T.A.B. DATE 6/27/92
APPROVED BY B.C. DATE 6/27/92
FIELD BOOK NO. PAGE

SCALE: PLAN HORIZ N.T.S. VERT; PROFILE HORIZ VERT

DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION 244–1554
CITY OF GRAND JUNCTION, COLORADO

EXHIBIT "I"
STANDARD SANITARY SEWER DETAILS

SHEET NO. 19
OF 19
FILE NO. EX-96.dwg

ELECTRICAL LEGEND

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

POWER

- DUPLEX RECEPTACLE
- OUTLET WITH SPECIAL DEVICE, AS NOTED
- JUNCTION BOX
- BREAKER PANEL
- T TRANSFORMER

CIRCUITING

- CONDUIT RUN
- CIRCUIT HOMERUN TO PANEL OR CABINET. NO. OF ARROWS INDICATE NO. OF CIRCUITS
- CIRCUIT TURNED UP
- CIRCUIT TURNED DOWN
- CONDUIT STUB-OUT – CAP & MARK
- CIRCUIT IN FLEXIBLE CONDUIT
- SEALOFF

SCHEMATIC WIRING GRAPHICS

- M METER
- GROUND CONNECTION AS NOTED
- CIRCUIT BREAKER
- POWER TRANSFORMER

NOTATIONS

1 – PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR OR GRADE TO CENTERLINE OF OUTLET.

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Mechanical, Electrical & Energy Consultants

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THESE DRAWINGS ARE DIAGRAMMATIC – REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS. BRANCH CIRCUITING CONVENTION – #12 AWG PER PHASE AND NEUTRAL (WHERE REQUIRED) AND 20 AMPERE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED. PROVIDE QUANTITY AND SIZE SWITCH CONDUCTORS AS REQUIRED TO MAKE SYSTEM OPERATIONAL.

GENERAL NOTES (FOR ALL ELECTRICAL SHEETS)

1. SITE PLAN DOES NOT INDICATE ALL OF THE UG UTILITY LINES, INC. CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES OF ALL TRADES PRIOR TO ANY SITE WORK.
2. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
3. ALL 120V BRANCH CIRCUITS SHALL BE 3-WIRE (HOT,NEUTRAL,GROUND).

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

AFG	–	ABOVE FINISHED GRADE
AIC	–	AMPS INTERRUPTING CURRENT
CB	–	CIRCUIT BREAKER
GFI	–	GROUND FAULT INTERRUPTER
MCB	–	MAIN CIRCUIT BREAKER
MLO	–	MAIN LUGS ONLY
UG	–	UNDERGROUND
WP	–	WEATHERPROOF
XFMR	–	TRANSFORMER

ELECTRICAL SPECIFICATIONS

1. GENERAL AND SPECIAL CONDITIONS

A. SCOPE

(1) THESE SPECIFICATIONS APPLY TO THE ELECTRICAL WORK INCLUDING SERVICE ENTRANCE, DISTRIBUTION SYSTEM, CONVENIENCE OUTLET SYSTEM.

(2) PROVIDE LABOR AND MATERIAL REQUIRED FOR COMPLETE AND OPERATIONAL ELECTRICAL SYSTEMS.

B. SHOP DRAWINGS

(1) SUBMIT TO THE ENGINEER THREE COPIES OF CATALOG CUTS AND DIMENSIONAL DRAWINGS FOR MAIN DISTRIBUTION EQUIPMENT AND WIRING DEVICES.

(2) PRE-BID SUBSTITUTE EQUIPMENT WILL BE CONSIDERED ONLY IF SUFFICIENT DATA IS SUBMITTED TO DETERMINE EQUALITY IN FUNCTION AND APPEARANCE AT LEAST FIVE DAYS PRIOR TO BID.

(3) POST-BID SUBSTITUTE EQUIPMENT WILL BE CONSIDERED ONLY IF SUFFICIENT DATA IS SUBMITTED TO DETERMINE EQUALITY IN FUNCTION AND APPEARANCE AND IF THE SUBMITTAL IS ACCOMPANIED WITH A LETTER INDICATING THE AMOUNT OF DOLLAR REDUCTION IN CONTRACT THAT IS BEING OFFERED.

C. CODES AND PERMITS

(1) PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.

(2) OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS AND CERTIFICATES THAT MAY BE NECESSARY FOR COMPLETION OF THE WORK.

D. COORDINATION

(1) COORDINATE WORK WITH POWER COMPANY.

E. INSPECTION

(1) ALL WORK SHALL BE SUBJECT TO INSPECTION AT ANY TIME BY THE ARCHITECT, OWNER, OR ENGINEER.

(2) NOTIFY PROPER AUTHORITIES WHEN WORK IS READY FOR ANY INSPECTIONS REQUIRED.

F. AS-BUILT DRAWINGS

(1) AT THE COMPLETION OF THE WORK, FURNISH THE ENGINEER A SET OF DRAWINGS MARKED TO SHOW "AS-BUILT" CONDITIONS.

G. GUARANTEE

(1) GUARANTEE THAT ALL MATERIALS SHALL BE NEW AND FREE OF DEFECT AT THE TIME OF INSTALLATION. REPAIR OR REPLACE ANY DEFECTIVE MATERIAL OR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF WRITTEN ACCEPTANCE BY THE OWNER.

H. MAINTENANCE AND OPERATING PROCEDURES

(1) AT THE COMPLETION OF WORK, INSTRUCT THE OWNER ON THE CORRECT MAINTENANCE AND OPERATING PROCEDURES FOR THE ELECTRICAL SYSTEM.

I. PROTECTION

(1) ALL WORK, MATERIAL, AND EQUIPMENT SHALL BE PROTECTED FROM DAMAGE OR LOSS DUE TO THEFT, WEATHER, ETC., UNTIL FINAL WRITTEN ACCEPTANCE BY THE OWNER.

(2) POST DANGER SIGNS AND PHYSICAL BARRIERS TO PROTECT PEOPLE AGAINST HAZARDS CREATED BY THE WORK.

J. IDENTIFICATION

(1) PROVIDE AND INSTALL ENGRAVED LAMINATED BLACK AND WHITE PHENOLIC NAMEPLATE FOR PANELBOARD.

(2) NAMEPLATES SHALL BE FIRMLY SECURED WITH TWO SHEET METAL SCREWS.

K. TRENCHING AND BACKFILLING

(1) PERFORM ALL TRENCHING (EXCEPT THAT BEING PERFORMED BY PUBLIC SERVICES OF COLORADO) AND BACKFILLING REQUIRED FOR THE ELECTRICAL WORK.

(2) BACKFILLING SHALL BE SUPERVISED BY THE GENERAL CONTRACTOR, AND SHALL BE ACCOMPLISHED IN 6" LIFTS, EACH COMPACTED TO 95% OR BETTER.

L. EQUIPMENT INSTALLATION

(1) ALL EQUIPMENT SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED OTHERWISE.

(2) THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SUPPORTS, FOUNDATIONS, PADS, ETC., AS REQUIRED. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF OTHER APPLICABLE DIVISIONS OF THE SPECIFICATIONS.

2. BASIC MATERIALS AND EQUIPMENT

A. GENERAL

(1) ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE OF THE TYPE AND QUALITY SPECIFIED, NEW, AND, WHEN LISTED BY UNDERWRITERS LABORATORIES, SHALL MEET THEIR REQUIREMENTS AND BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE REGULARLY FURNISHED.

B. METER EQUIPMENT

(1) ENCLOSURES SHALL BE CONSTRUCTED OF FORMED AND WELDED CODE GAUGE STEEL.

(2) ALL COMPONENTS SHALL BE FACTORY ASSEMBLED AND ALL CURRENT-CARRYING PARTS SHALL BE PLATED BUS BARS.

(3) METER SOCKET SHALL BE COORDINATED WITH THE POWER COMPANY. SOCKETS SHALL BE RATED 200 AMPERE CONTINUOUS DUTY. METER SOCKET JAWS MUST BE SPRING REINFORCED AND FRONT REMOVABLE.

C. PANELBOARDS

(1) THE PANELBOARD BUS ASSEMBLY AND BREAKERS SHALL BE ENCLOSED IN A STEEL CABINET. A CIRCUIT DIRECTORY FRAME AND CARD WITH A CLEAR PLASTIC COVERING SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT.

(2) CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, THERMAL-MAGNETIC, AND HAVE COMMON TRIP ON ALL MULTI-POLE BREAKERS.

(3) BUS BAR CONNECTIONS TO THE BRANCH CIRCUIT BREAKERS SHALL BE THE "DISTRIBUTED PHASE" TYPE.

(4) EQUIPMENT RATINGS SHALL BE AS INDICATED ON THE INDIVIDUAL PANELBOARD SCHEDULES.

D. WIRING DEVICES

(1) CONVENIENCE OUTLETS SHALL BE 3 WIRE GROUNDING TYPE, 20 AMP @ 125 VOLTS, GFCI PROTECTER, SPECIFICATION GRADE, IVORY COLOR, WITH BRUSHED STAINLESS STEEL COVER PLATES. CATALOG NUMBERS ARE FOR LEVITON DEVICES. EQUALS BY HUBBELL, ARROW-HART, BRYANT, CIRCLE F, G.E., P&S, OR SIERRA WILL BE CONSIDERED IF SUBMITTED AS SHOP DRAWINGS.

a. DUPLEX OUTLET: 8898-HG-I

E. OUTLETS

(1) USE OUTLET BOXES OF SUFFICIENT SIZE AND SHAPE TO BEST SUIT THE PARTICULAR LOCATION AND TO CONTAIN ENCLOSED WIRE AND CONNECTIONS WITHOUT CROWDING. USE DEEP BOXES WITH CONDUITS 1" AND LARGER. PROVIDE EXTENSIONS AND COVERS WHERE REQUIRED. NO OUTLET BOXES SMALLER THAN 4" SHALL BE INSTALLED.

(2) RECEPTACLE OUTLETS SHALL BE STANDARD 4" BOXES WITH COVER PLATES. WHERE MORE THAN ONE DEVICE IS LOCATED AT ONE POINT, USE GANG BOXES AND GANG COVER PLATES.

(3) USE WEATHERPROOF RECEPTACLES MOUNTED IN WEATHERPROOF OUTLET BOXES IN LOCATIONS EXPOSED TO WEATHER. ALSO, USE RAINTIGHT WHILE-IN-USE COVERS, LEVITON MODEL 5677-DCL FOR SINGLE GANG AND 5897-DCL FOR DOUBLE GANG.

(4) INSURE A CONTINUOUS GROUND CONNECTION BETWEEN THE GROUNDING TERMINALS OF DUPLEX CONVENIENCE OUTLETS AND THE CONDUIT SYSTEM USING A PIGTAIL (STEEL CITY #GSW-2 OR EQUAL) DIRECTLY FROM THE GROUNDING SCREW ON THE RECEPTACLE TO A GROUND SCREW CONNECTION INSIDE THE OUTLET BOX. A SELF-GROUNDING CONTACT DEVICE APPROVED FOR THE PURPOSE SHALL BE ACCEPTABLE AS GROUND CONNECTION.

(5) OUTLET BOXES SHALL BE ONE-PIECE STEEL, GALVANIZED OR SHERADIZED AS MANUFACTURED BY STEEL CITY ELECTRIC, APPLETON ELECTRIC, OR RACO ALL-STEEL PRODUCTS.

F. RACEWAYS

(1) RACEWAYS SHALL BE RIGID STEEL. RACEWAYS SHALL BE GALVANIZED OR SHERADIZED, AND SHALL BE MANUFACTURED BY JONES & LAUGHLIN, ALLIED, OR TRIANGLE CONDUIT & CABLE.

G. RACEWAY FITTINGS

(1) CONDUIT SEALS SHALL BE OF THE SIZE AND TYPE REQUIRED AND SHALL BE MANUFACTURED BY CROUSE-HINDS.

(2) EXPANSION FITTINGS SHALL BE OF THE SIZE AND TYPE REQUIRED, WITH BONDING JUMPER, AND SHALL BE MANUFACTURED BY O-Z ELECTRIC.

(3) RIGID STEEL CONDUIT BUSHINGS SHALL BE NYLON INSULATED STEEL TYPE, AND SHALL BE T&B SERIES 1222.

(4) LOCKNUTS SHALL BE CASE HARDENED STEEL TYPE, AND SHALL BE T&B SERIES 141.

(5) FITTINGS AS MANUFACTURED BY O-Z ELECTRIC, APPLETON ELECTRIC, OR STEEL CITY ELECTRIC, OR EQUAL QUALITY MAY BE SUBSTITUTED FOR THOSE SPECIFIED.

H. RACEWAY INSTALLATION

(1) CONDUITS INSTALLED UNDERGROUND SHALL BE A MINIMUM OF 3/4" RIGID STEEL WITH A PVC CORROSION-RESISTANT JACKET. EXCEPT, AT THE CONTRACTOR'S OPTION, CONDUITS MAY BE RIGID SCHEDULE 40 PVC, PROVIDED A GROUND WIRE SIZED PER THE NEC IS INSTALLED AND BONDED TO THE GROUND SYSTEM, AND THE CONDUIT SIZE IS INCREASED AS REQUIRED TO ACCOMMODATE THE GROUND WIRE.

(2) CONDUIT EXPOSED TO MECHANICAL DAMAGE SHALL BE RIGID STEEL, GALVANIZED.

(3) MAKE CONDUIT BENDS WITH STANDARD CONDUIT ELBOWS OR CONDUIT BENT TO NOT LESS THAN THE SAME RADIUS. ALL BENDS SHALL BE FREE FROM DENTS OR FLATTENING.

(4) ALL FITTINGS IN WET PLACES, LOCATIONS EXPOSED TO WEATHER, OR BURIED IN MASONRY, CONCRETE, OR FILL SHALL BE WATERTIGHT. CAP CONDUIT ENDS TO PREVENT ENTRANCE OF FOREIGN MATERIALS DURING CONSTRUCTION.

(5) EQUIP ALL EMPTY CONDUITS WITH GALVANIZED IRON PULL-WIRES OF ADEQUATE SIZE.

I. WIRE AND CABLE

(1) UNLESS INDICATED OTHERWISE, ALL CONDUCTORS SHALL BE HIGH-CONDUCTIVITY COPPER, #12 OR LARGER, WITH 600 VOLT INSULATION, SIZED AS INDICATED. ACCEPTABLE MANUFACTURERS SHALL BE G.E., ROME CABLE, AMACONDA WIRE & CABLE, TRIANGLE CONDUIT & CABLE, AND ONONITE.

(2) UNLESS OTHERWISE DESIGNATED, WIRE AND CABLE FOR VARIOUS APPLICATIONS SHALL BE AS FOLLOWS:

a. #12 THROUGH #8, IN SLABS OR WET LOCATIONS: TYPE THWN, 75 DEGREE C.

b. #4 AND LARGER: TYPE THW 75 DEGREE C.

c. WIRE #10 AND SMALLER: SOLID.

d. WIRE #8 AND LARGER: STRANDED.

J. POWER SERVICE ENTRANCE

(1) THIS PROJECT SHALL BE SERVED UNDERGROUND FROM A PAD MOUNTED TRANSFORMER SUPPLIED AND INSTALLED BY THE POWER COMPANY.

(2) THE POWER COMPANY SHALL PROVIDE THE TRANSFORMER, PRIMARY CONDUCTORS, AND PRIMARY AND SECONDARY TERMINATIONS. THE POWER COMPANY SHALL BILL THE OWNER DIRECTLY FOR THIS SERVICE.

(3) THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID SUPPLYING AND INSTALLATION OF CONDUIT AND WIRE FROM THE TRANSFORMER SECONDARY TO THE MAIN POWER DISTRIBUTION EQUIPMENT AND METER SOCKET.

(4) ALL EQUIPMENT SHALL BE U.L. LABELED FOR USE AS SERVICE ENTRANCE EQUIPMENT.

(5) WITHIN 10 DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL NOTIFY THE UTILITY IN WRITING OF THE DESIRED SERVICE DATE.

(6) EQUIPMENT RATINGS AND DISTRIBUTION SYSTEM CONFIGURATION SHALL BE AS INDICATED ON THE ONE-LINE DIAGRAM.

REVISIONS

No.	DATE
–	–
No.	DATE
No.	DATE
No.	DATE
No.	DATE

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PROJECT: TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

TITLE: ELECTRICAL COVER SHEET AND SPECIFICATIONS

FINAL CONSTRUCTION SET 4/6/01

DATE	03/15/01
SCALE	NONE
APPROVED BY	AFD
CHECKED BY	AFD
DESIGNED BY	RDP
DRAWN BY	RDP

PROJECT NO. 00-CONVENTION

SHEET NO. E-1
1 OF 2 SHEETS

PANEL " P1 "

120/ 240 VOLT 1 PHASE 3 WIRE SERVICE
100 AMP MAIN BREAKER 150A MOUNTING : SURFACE X
10,000 AIC GROUND BUS X LUGS ONLY FLUSH
NEUTRAL X

DESCRIPTION	L	R	MAIE		A	B		L	R	MAIE	DESCRIPTION
GFI PROTECTED		2880		2	1	2			900		GFI RECEPTACLES
RECEPTACLE		2880		20	3	4			900		GFI RECEPTACLES
GFI PROTECTED		2880			5	6			1260		GFI RECEPTACLES
RECEPTACLE		2880		20	7	8					SPARE
GFI PROTECTED		2880		2	9	10					SPARE
RECEPTACLE		2880		20	11	12					SPARE
GFI PROTECTED		2880		2	13	14					SPARE
RECEPTACLE		2880		20	15	16					SPARE
SPARE					17	18					SPARE
SPARE					19	20					SPARE
					LOADS IN						
TOTAL		23040	M A E		VOLT- AMPERES			2700	M A E		TOTAL

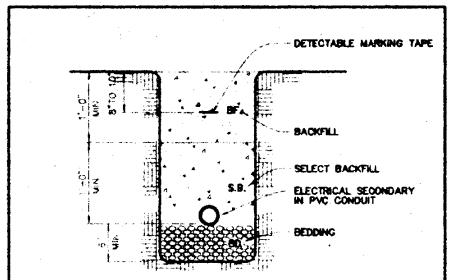
	CONNECTED	D.F.	DEMAND
LIGHTING		1.25	
RECEPT. (FIRST 10 KW)	10.0	1.00	10.0
RECEPT. (REMAINDER)	15.7	0.50	7.9
MOTORS		1.00	
LARGEST MOTOR		1.25	
APPLIANCES		1.00	
EQUIPMENT		1.00	
HEATING		1.00	
TRANSFORMER		1.00	
OTHER		1.00	
TOTAL	25.7 KVA		17.9 KVA
LOAD	107.3 AMPS		74.5 AMPS
DESIGN			150 AMPS
SPARE			75.5 AMPS

CONNECTED	25.7 KVA
DESIGN	36.0 KVA
DEMAND	17.9 KVA
SPARE	18.1 KVA
CONNECTED L1	13.3 KVA
L2	12.4 KVA

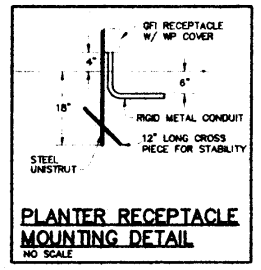
ALL CIRCUIT BREAKERS ARE 20 AMP, 1 POLE UNLESS NOTED OTHERWISE

L = LIGHTING R = RECEPTACLE M = MOTOR T = TRANSFORMER SP = SPACE
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER SPR = SPARE

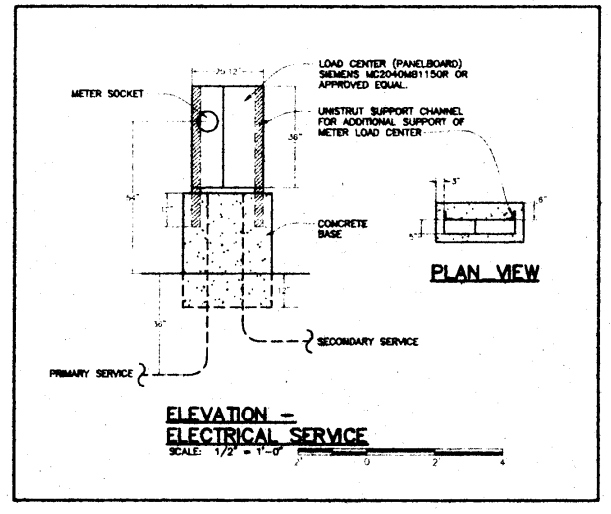
NOTES: PROVIDE FOUR 2P/30A GFCI BREAKERS AS INDICATED ON SCHEDULE



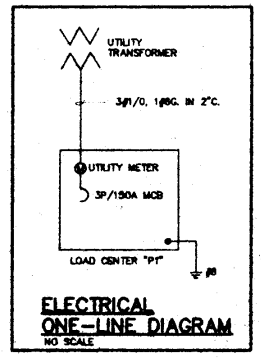
ELECTRICAL SECONDARY TRENCH DETAIL
NO SCALE



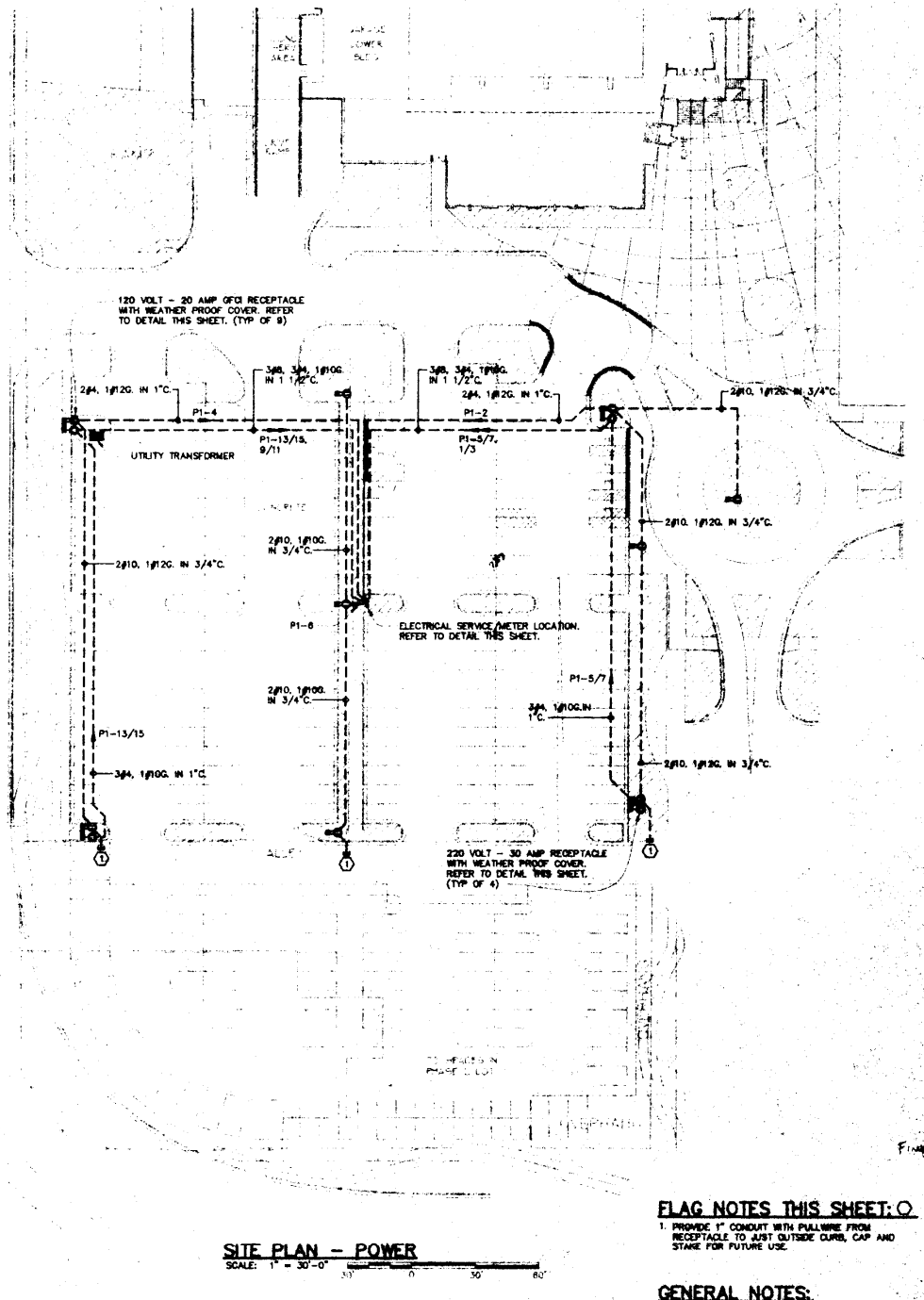
PLANTER RECEPTACLE MOUNTING DETAIL
NO SCALE



ELEVATION - ELECTRICAL SERVICE
SCALE: 1/2" = 1'-0"



ELECTRICAL ONE-LINE DIAGRAM
NO SCALE



SITE PLAN - POWER
SCALE: 1" = 30'-0"

FLAG NOTES THIS SHEET: O

1. PROVIDE 1" CONDUIT WITH PULLWIRE FROM RECEPTACLE TO JUST OUTSIDE CURB, CAP AND STAKE FOR FUTURE USE.

GENERAL NOTES:

1. COORDINATE TRENCHING WITH PUBLIC SERVICES OF COLORADO. DRAWINGS HAVE BEEN SHOWN TO INDICATE THE SAME TRENCHING AS PUBLIC SERVICE FOR THEIR LIGHTING LAYOUT. ELECTRICAL CONTRACTOR SHALL USE SAME TRENCH AS PUBLIC SERVICE OF COLORADO TO SERVE POWER TO NEW RECEPTACLES WHENEVER POSSIBLE.

REVISIONS
No. DATE
No. DATE
No. DATE
No. DATE
No. DATE

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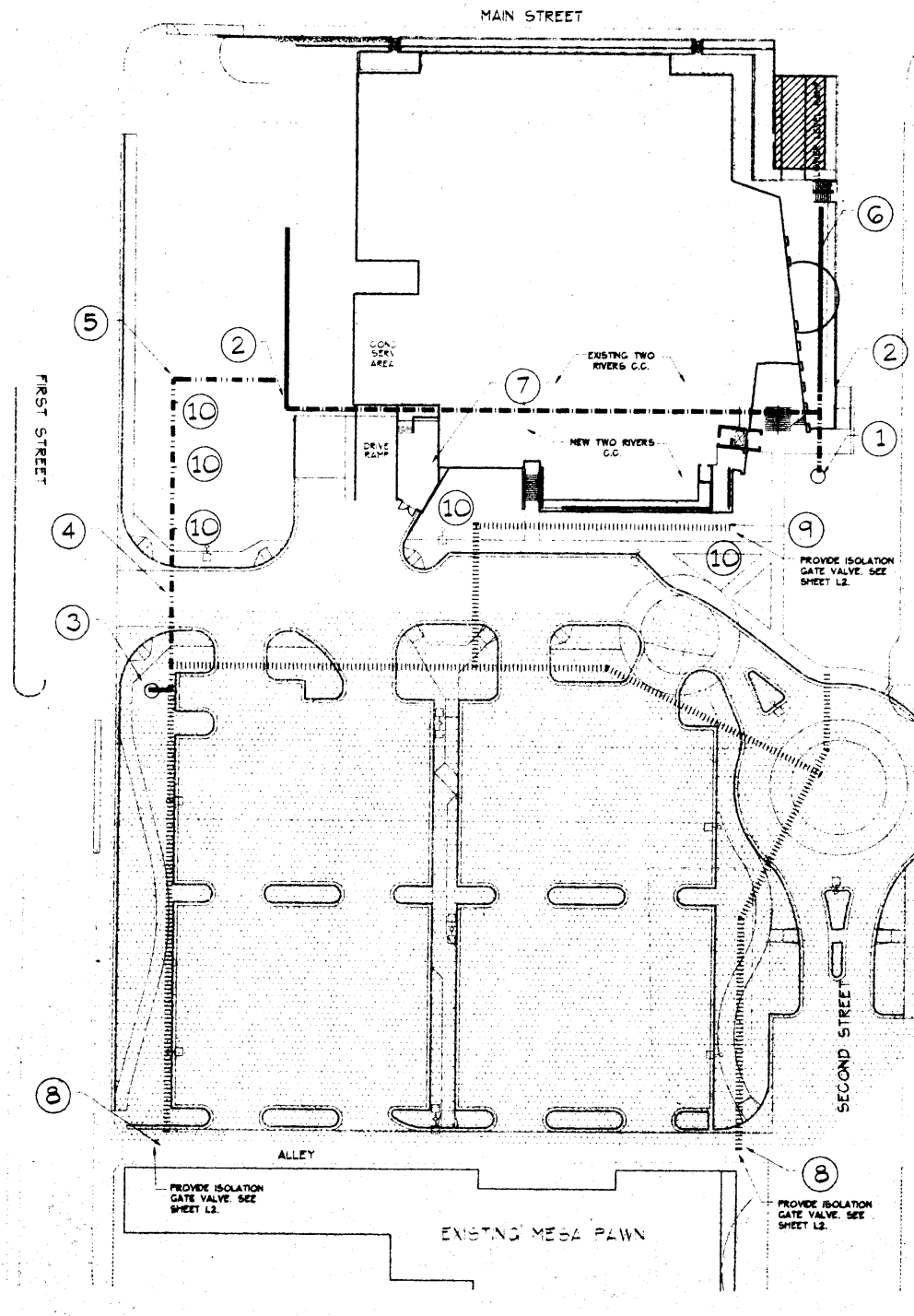
PROJECT: TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

TITLE: SITE PLAN

Final Construction Set Submission
DATE: 03-13-03
SCALE: 1" = 30'
APPROVED BY: APD
CHECKED BY: APD
DESIGNED BY: RDF
DRAWN BY: RDF

PROJECT NO. 0204

SHEET NO. E-2
1 OF 2 SHEETS



NOTES:
1. CONTRACTOR TO REMOVE EXISTING BACKFLOW PREVENTOR AND CAGE. RETURN WITH CAGE TO CITY OF GRAND JUNCTION. PERMANENTLY CAP BACKFLOW AND BLOWOUT RISERS AT 4' MIN. DEPTH.
2. CONTRACTOR TO CAP EXISTING IRRIGATION MAINLINE IN PARKING GARAGE AND IN SLOPED LANDSCAPE TO WEST OF RAMP. MAINLINE IN PARKING GARAGE TO REMAIN IN PLACE.
3. CITY OF GRAND JUNCTION TO PROVIDE AND INSTALL 1-1/2 INCH TAP, WATER METER, VAULT, BLOWOUTS PER CODE, BACKFLOW PREVENTOR AND CAGE.
4. CONTRACTOR TO INSTALL 2 - 4" SLEEVES AND MAINLINE AT BEGINNING OF PROJECT DEMOLITION TO PROVIDE IRRIGATION WATER TO EXISTING LANDSCAPE FOR DURATION OF CONSTRUCTION.
5. CONTRACTOR TO INSTALL 8 ADDITIONAL VALVE ZONE WIRES AND ONE COMMON WIRE FROM NEW CONTROLLER TO THIS LOCATION. ALL 9 WIRES TO HAVE 75 FEET OF EXTRA LENGTH COILED AND PROTECTED. PLACE PULL BOX TO ALLOW CONNECTION BY CITY TO EXISTING LANDSCAPE.
6. CITY TO MANUALLY WATER LANDSCAPE AT PARKING GARAGE LEVEL DURING CONSTRUCTION.
7. CONTRACTOR TO INSTALL IRRIGATION CLOCK AT JUNCTION BOX. CONDUIT THROUGH RETAINING WALL INTO OPTIONS PACKAGE #3 LANDSCAPE AREA FOR VALVE WIRING FROM CLOCK TO SYSTEM (BASE BID)
8. CONTRACTOR TO DROP THREE (3) ADDITIONAL VALVE WIRES PLUS COMMON WIRE AND PLACE PULL BOX TO ALLOW FUTURE EXPANSION OF IRRIGATION SYSTEM. (2 LOCATIONS)
9. CONTRACTOR TO DROP FOUR (4) ADDITIONAL VALVE WIRES PLUS COMMON WIRE AND PLACE PULL BOX TO ALLOW FUTURE EXPANSION OF IRRIGATION SYSTEM.
10. CONTRACTOR TO DROP ONE (1) ADDITIONAL VALVE WIRE PLUS COMMON WIRE AND PLACE PULL BOX TO ALLOW FOR OPTIONS PACKAGE #3 IRRIGATION SYSTEM. (5 LOCATIONS)

LEGEND:
- EXISTING IRRIGATION MAINLINE TO BE ABANDONED
- EXISTING IRRIGATION MAINLINE TO REMAIN
- PROPOSED MAINLINE TO BE INSTALLED AT INTIAL DEMOLITION.
- PROPOSED MAINLINE - BASE BID

SCALE: 1" = 30'

LANDSCAPE AND IRRIGATION OVERVIEW

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY: NH
CHECKED BY: TC
JOB NO.: 0001
DATE: 4-24-01
REVISIONS:

DRAWING NO.: 0001-04-24-01-L1

SHEET NO.: L1

STATUS
- ○ DRAFT
- ○ PRELIMINARY
- ○ BID
- ● CONSTRUCTION
- ○ AS BUILT

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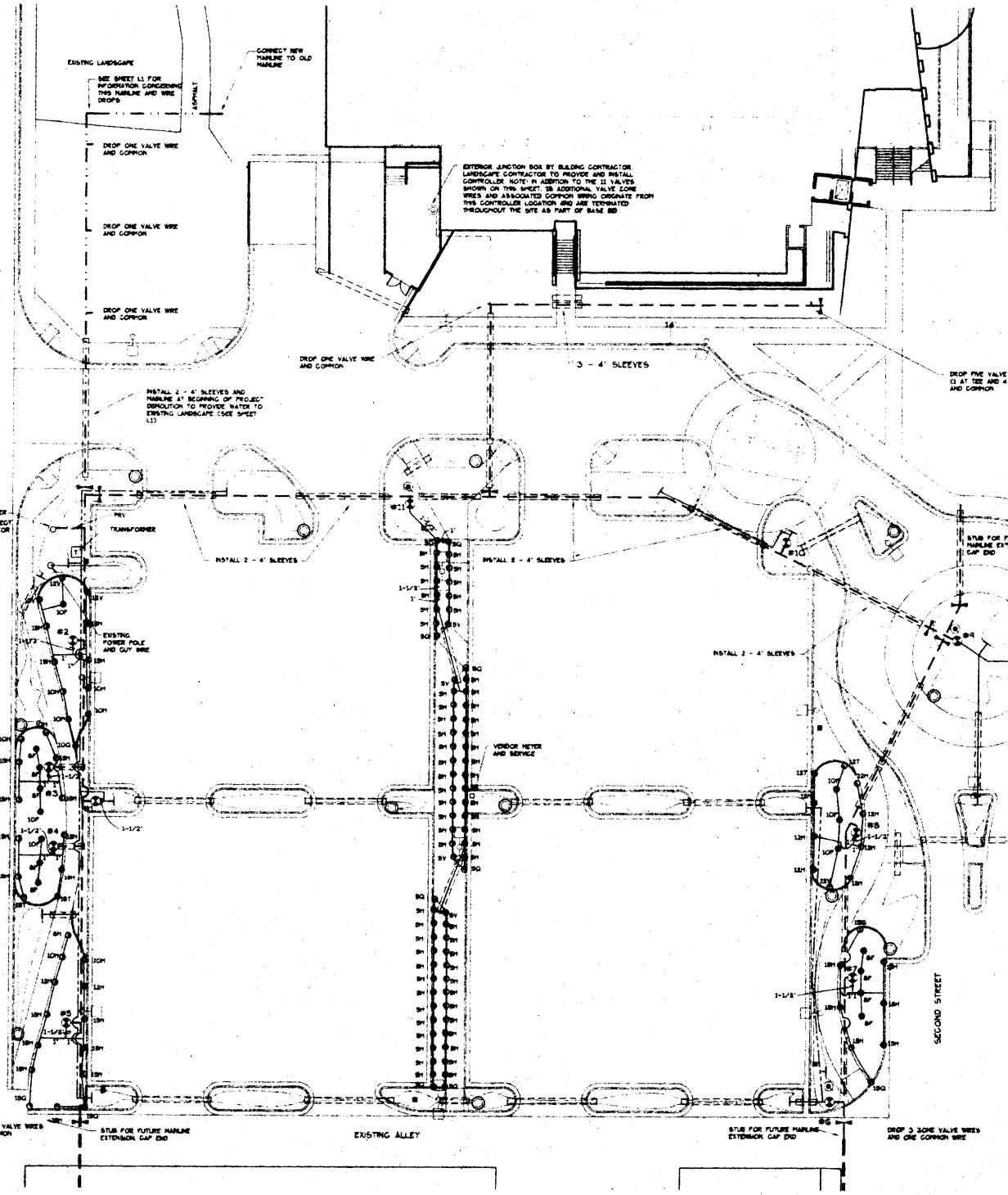

TWO RIVERS C.C. IRRIGATION VALVE SCHEDULE

VALVE #	SIZE	TYPE	GPM	PRECIP RATE	RUN TIME	PSI	PCM	IN/START	STARTS /DAY	WATER DAYS	IN/WEEK + SOIL EFFEC
#1	1-1/2"	WEST P-LOT DRIP	12.1	2 gal/emit/hr	56 min	B	1/4 gal		2	2	6.0 gal
#2	1-1/2"	NORTH 1ST ST. SPRAY	15	1.74 in/hr	7 min	A	0.20 in		2	6	1.68 in
#3	1-1/2"	NORTH CENTER 1ST ST SPRAY	14	1.74 in/hr	7 min	A	0.20 in		2	6	1.68 in
#4	1-1/2"	SOUTH CENTER 1ST ST SPRAY	14	1.74 in/hr	7 min	A	0.20 in		2	6	1.68 in
#5	1-1/2"	SOUTH 1ST ST SPRAY	20	1.74 in/hr	7 min	A	0.20 in		2	6	1.68 in
#6	1-1/2"	SOUTH EAST P-LOT DRIP	6.8	2 gal/emit/hr	56 min	B	1/4 gal		2	2	6.0 gal
#7	1-1/2"	SOUTH 2ND ST. SPRAY	17	1.74 in/hr	7 min	A	0.20 in		2	6	1.68 in
#8	1-1/2"	NORTH 2ND ST SPRAY	16	1.74 in/hr	7 min	A	0.20 in		2	6	1.68 in
#9	1-1/2"	ROUNDABOUT DRIP	13.7	2 gal/emit/hr	56 min	B	1/4 gal		2	2	6.0 gal
#10	1-1/2"	NORTH EAST P-LOT DRIP	6.1	2 gal/emit/hr	56 min	B	1/4 gal		2	2	6.0 gal
#11	1-1/2"	CENTER SPRAY	14	1.74 in/hr	7 min	A	0.20 in		2	6	1.68 in

WATER BUDGET SETTINGS	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT
	90%	100%	130%	160%	120%	90%	70%

IRRIGATION LEGEND

- RAINBIRD 1804 SERIES SPRAY HEAD WITH NOZZLE AS SHOWN
- CLASS 160 PVC LATERAL PIPE 1 IN UNLESS OTHERWISE NOTED
- CLASS 160 PVC LATERAL FOR DRIP ZONES 1 IN. UNLESS OTHERWISE NOTED
- CLASS 200 PVC MAINLINE 2 IN UNLESS OTHERWISE NOTED
- INITIAL MAINLINE CONSTRUCTION (2 IN.)
- IRRIGATION SLEEVING 4" UNLESS OTHERWISE NOTED
- ISOLATION VALVE
- MANUAL DRAIN VALVE
- RAINBIRD PEB ZONE VALVE SIZE SHOWN IN VALVE SCHEDULE
- RAINBIRD QUICK COUPLER
- COMPRESSION 'T' FITTING
- DRIP ZONE FLUSH BOX
- RAINBIRD ESP-MC 40 WALL MOUNT IRRIGATION CLOCK IN EXTERIOR CABINET
- RAINBIRD T-BIRD T-40 SERIES ROTOR SPRINKLER PART CIRCLE NOZZLE SIZE SHOWN (OPTIONS #3 PACKAGE)
- RAINBIRD T-BIRD T-30 SERIES ROTOR SPRINKLER FULL CIRCLE, WITH NOZZLE SHOWN (OPTIONS #3 PACKAGE)
- LIGHT FIXTURES - SEE CIVIL/ELECTRICAL DRAWINGS
- BOLLARDS - SEE CIVIL DRAWINGS
- TRANSFORMER (SEE ELECTRICAL DRAWINGS)

IRRIGATION NOTES:
1. ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
2. CITY OF GRAND JUNCTION TO INSTALL WATER METER. METER PIT, BACKFLOW PREVENTOR AND ASSOCIATED HARDWARE TO CODE.
3. CONTRACTOR IS TO CONNECT TO BACKFLOW PREVENTOR AND PROVIDE INITIAL MAINLINE AND SLEEVING AT BEGINNING OF PROJECT DEMOLITION TO PROVIDE IRRIGATION WATER TO EXISTING LANDSCAPE AT BUILDING.
4. ALL LATERAL AND MAIN LINES IN SYSTEM WILL BE CONTAINED IN SLEEVES WHEREVER CONCRETE IS TO BE OVERLAID.
5. PIPE SIZES ARE SHOWN AT TRANSITION.
6. CLOCK TO BE MOUNTED ON BUILDING WALL WHERE SHOWN.
7. MAXIMUM LENGTH OF SWING PIPE ON ALL HEADS SHALL BE 10 FT. MINIMUM LENGTH SHALL BE 2 FT.
8. ALL MAINS SHALL BE BURIED AT A MINIMUM DEPTH OF 18 IN. ALL LATERALS AT A DEPTH OF 18 IN. ALL VALVE WIRING SHALL BE BUNDLED BY TAPING AT 25 FT INTERVALS AND PLACED BELOW IRRIGATION PIPING FOR PROTECTION.
9. CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT LOW POINT ON ALL MAIN LINES.
10. PRESSURE REGULATING VALVE TO BE PLACED FOLLOWING BACKFLOW PREVENTOR.
11. DRIP ZONES TO HAVE WYE FILTERS AFTER PEB VALVE.
12. MAINLINE IS DIAGRAMMATIC. TO BE LOCATED WITH XCEL ENERGY TRENCH WHERE POSSIBLE.
13. SYSTEM IS DESIGNED TO OPERATE AT 40 PSI AT HEADS.
14. SEE SHEET L4 FOR DETAILS.

PARKING LOT AND ROUNDABOUT IRRIGATION

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY MH
CHECKED BY TC
JOB NO. 0001
DATE 4-24-01
REVISIONS

DRAWING NO. 0001-04-24-01-2

SHEET NO. L2

STATUS
- ○ DRAFT
- ○ PRELIMINARY
- ○ BID -
- ● CONSTRUCTION
- ○ AS BUILT

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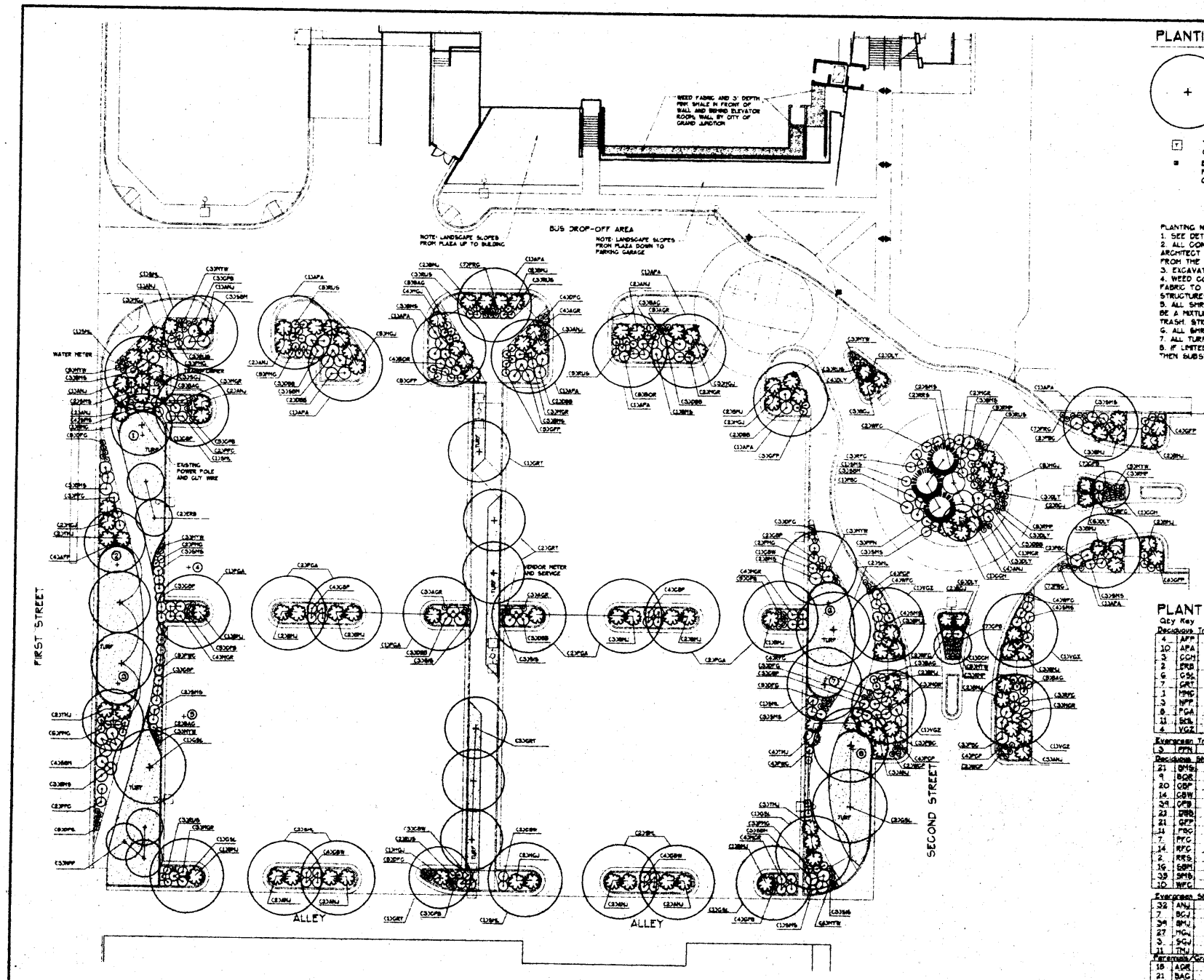

PLANTING LEGEND

- DECIDUOUS TREE
- DECIDUOUS SHRUBS AND PERENNIALS
- EVERGREEN SHRUB
- TURF WITH EDGER
- TRANSFORMER (BY OTHERS)
- ELECTRICAL OUTLET FOR VENDOR USE (BY OTHERS)

SCALE: 1" = 20'-0"

PLANTING NOTES:
1. SEE DETAILS AND SPECIFICATIONS AS THEY APPLY TO THIS AND RELATED WORK.
2. ALL CONCRETE EDGER PLACEMENT (LINE AND GRADE) SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ANY PLANTING OR IRRIGATION. CONTRACTOR SHALL SCALE EDGER LOCATION FROM THE DRAWINGS.
3. EXCAVATE TO REMOVE ALL GRAVEL, TRASH, ETC. FROM ALL SHRUB BEDS. (SEE SPECIFICATIONS)
4. WEED CONTROL FABRIC TO BE HARDSCAPE I OR OTHER NON-WOVEN WEED CONTROL FABRIC. FABRIC TO BE LAPPED 6" AT ALL JOINTS. FABRIC SHALL BE CUT AS CLOSE AS POSSIBLE TO ALL STRUCTURES, INCLUDING LIGHT POLE BASES, CURBS, RAIL BASES, ETC.
5. ALL SHRUB BEDS TO RECEIVE TOPSOIL, SOIL AMENDMENT, WEED FABRIC AND MULCH. MULCH TO BE A MIXTURE OF 60% CLEAN SHAVINGS OF MEDIUM COARSED SHREDDED ASPEN BARK FREE OF TRASH, STICKS OR ROOTS AND 40% PINK SHALE ROCK, A MIXTURE OF 3/4" TO 2-1/2" SIZES.
6. ALL SHRUB BEDS TO BE MOUNDED (SEE SPECIFICATIONS).
7. ALL TURF AREAS TO RECEIVE TOPSOIL AND SOIL AMENDMENT PRIOR TO SODDING.
8. IF LIMITED PLANT QUANTITIES REQUIRE PARTIAL SUBSTITUTION WITH ALTERNATE PLANT SPECIES, THEN SUBSTITUTE PLANTINGS SHALL BE RESTRICTED TO SINGLE SPECIES PER GROUPING.

EDGER LAYOUT SCHEDULE

KEY	NORTHING	EASTING	RADIUS
①	38863.62	84848.20	9.5
②	38910.63	84838.56	7.5
③	38922.43	84834.80	8.5
④	38810.03	84867.94	18'
⑤	38449.39	84866.93	14.5
⑥	38499.16	84827.20	8'
⑦	38468.06	84826.70	7.5
⑧	38431.42	84838.16	7.5

PLANT LIST

Qty	Key	Common Name	Scientific Name	Size
Deciduous Trees				
4	APT	Armstrong Pear	Pyrus calleryana 'Aristocrat'	1-1/2"
10	APA	Autumn Purple Ash	Fraxinus americana 'Autumn Purple'	1-1/2"
3	CGH	Crimson Cloud Hawthorn	Fraxinus americana 'Autumn Purple'	1-1/2"
2	EKB	Eastern Redbud	Cercis canadensis	1-1/2"
6	CAL	Greenspire Linden	Tilia cordata 'Greenspire'	1-1/2"
7	GAT	Golden Rain Tree	Koelreuteria paniculata	1-1/2"
1	HMC	Hornbeam Cherry	Prunus 'Hisakurensis'	1-1/2"
3	NPT	Newport Plum	Prunus cerasifera 'Newport'	1-1/2"
8	PGA	Patmore Ash	Fraxinus pennsylvanica 'Patmore'	1-1/2"
11	SCL	Shademaster Honeylocust	Gleditsia triacanthos inermis 'Shademaster'	1-1/2"
4	VGZ	Village Green Zelkova	Zelkova serrata 'Village Green'	1-1/2"
Evergreen Trees				
3	PPN	Pinon Pine	Pinus edulis	6'
Deciduous Shrubs				
21	BHS	Blue Mist Spruce	Caryopteris incana	5 gal
9	BQR	Bonica Rose	Rosa hybrida 'Bonica'	5 gal
20	CBF	Common Purple Butterfly Bush	Buddleia davidi nanhoensis 'Petite Indigo'	5 gal
14	CBW	Common White Butterfly Bush	Buddleia davidi nanhoensis 'Petite Snow'	5 gal
24	CPB	Crimson Pygmy Barberry	Berberis thunbergii Atropurpurea nana'	5 gal
23	DBR	Dwarf Burning Bush	Euonymus alata 'Compacta'	5 gal
21	GFP	Goldfinger Potentilla	Potentilla fruticosa 'Goldfinger'	5 gal
11	PMC	Pawnee Buttes Sand Cherry	Prunus besseyi 'Pawnee Buttes'	5 gal
7	PPC	Pink Pinstripe Carpet Rose	Rosa x Flower Carpet 'Noatrum'	2 gal
14	RFC	Red Flower Carpet Rose	Rosa x Flower Carpet 'Noaral'	2 gal
2	RRS	Red Heart Rose of Sharon	Hibiscus syriacus 'Red Heart'	5 gal
16	SBM	Scotch Broom	Cytisus scoparius 'Moonlight'	5 gal
35	SMB	Snow Mound Spiraea	Spiraea nipponica 'Snowmound'	5 gal
10	WFC	White Flower Carpet Rose	Rosa x Flower Carpet 'Noaschnee'	2 gal
Evergreen Shrubs				
32	ANJ	Andorra Juniper	Juniperus horizontalis 'Andorra'	5 gal
7	BCJ	Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	5 gal
26	BMJ	Broadmoor Juniper	Juniperus sabina 'Broadmoor'	5 gal
27	MG	Mugho Juniper	Juniperus horizontalis 'Mugho'	5 gal
3	SCJ	Sea Green Juniper	Juniperus sabina 'Tamariscifolia'	5 gal
11	TNJ	Tammy Juniper	Juniperus sabina 'Tamariscifolia'	5 gal
Perennials/Ground Covers				
18	ADR	Abone Geranium	Geranium sanguineum	1 gal
21	BAG	Blue Avena Grass	Helictotrichon sempervirens	1 gal
30	DFG	Dwarf Fountain Grass	Pennisetum alopecuroides 'Hameln'	1 gal
27	DLY	Dwarf Lily	Hemerocallis sp.	1 gal
21	FRG	Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 gal
32	MGR	Maiden Grass	Miscanthus sinensis 'Gracillimus'	1 gal
34	MTW	Snowshow Terrace	Achillea ptarmica 'Boomerine'	1 gal
12	PGP	Pink Creeping Phlox	Phlox subulata 'Pink'	1 gal
21	PMG	Purple Maiden Grass	Miscanthus sinensis 'Purpurascens'	1 gal
9	PME	Purple Moorgrass	Molinia caerulea 'Variegata'	1 gal
16	RMF	Rocky Mountain Penstemon	Penstemon strictus	1 gal
32	RUS	Russian Sage	Perovskia atriplicifolia	1 gal
9	SHD	Snow in Summer	Cerastium tomentosum	1 gal
4	WGF	White Creeping Phlox	Phlox subulata 'White'	1 gal

PARKING LOT AND ROUNDABOUT LANDSCAPE

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY: MH
CHECKED BY: CC
JOB NO: 1990L
DATE: 4-24-01
REVISIONS:

DRAWING NO.
0001-04-24-01-3

SHEET NO. L3

STATUS
- ○ DRAFT
- ○ PRELIMINARY
- ○ BID
- ● CONSTRUCTION
- ○ AS BUILT

CIAVONNE & ASSOCS., INC.
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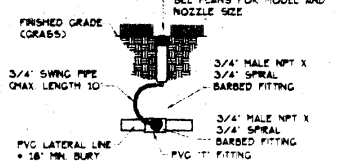
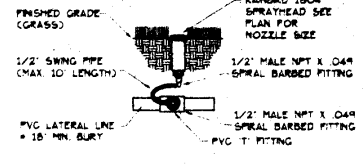
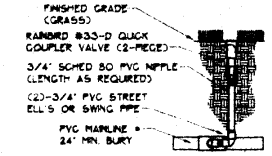
A 4 RAINBIRD T-BIRD ROTOR
NOT TO SCALE



B 4 RAINBIRD 1804 SPRAYHEAD
NOT TO SCALE

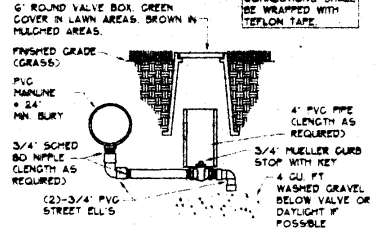


C 4 QUICK COUPLER
NOT TO SCALE

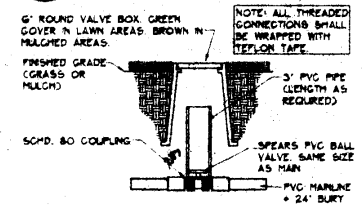


D 4 MANUAL DRAIN VALVE (TYP.)
NOTE: ALL THREADED CONNECTIONS SHALL BE WRAPPED WITH TEFLON TAPE.

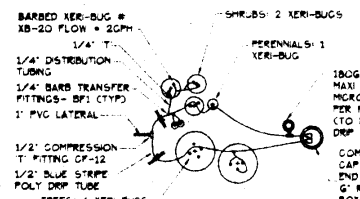
NOT TO SCALE



E 4 ISOLATION VALVE (TYP. 1-2" LINE)
NOT TO SCALE



F 4 RAINBIRD XERI-BUG LAYOUT
NOT TO SCALE



TUBING PLACEMENT AND LAYS	EMITTER PLACEMENT	FLUSH BOX PLACEMENT
1/2" DISTRIBUTION TUBE-MAX 200 GPH PER LENGTH. MAX 300' LENGTH. TUBING MAY BRANCH BUT SHALL NOT LOOP. EACH BRANCH TO END WITH FLUSH CAP IN 6" ROUND VALVE BOX. 1/4" DISTRIBUTION TUBE-MAX 18 GPH PER LENGTH. MAX 10 LENGTH. CONNECTION WITH 1/2" TUBE TO BE 1/4" COUPLER, NOT XERI-BUG (WITHIN GPH LIMIT). ALL TUBING TO BE PLACED BELOW WEED CONTROL FABRIC (WHERE FABRIC OCCURS). TUBING TO BE STAKED AT EMITTER AT MAX 5' INTERVALS WITH MAX. 6" STAPLES.	PERENNIALS: ONE XERI-BUG PER PLANT. LOCATED AND STAKED AT CENTER OF ROOT BALL. SHRUBS: TWO XERIBUGS PER PLANT LOCATED AND STAKED AT CENTER OF ROOT BALL. MIN. 4' APART FROM EACH OTHER. TREES: FOUR XERI-BUGS PER TREE LOCATED AND STAKED 6' FROM CENTER OF ROOT BALL. MIN. 12" FROM EACH OTHER	MINIMIZE NUMBER OF FLUSH BOXES. LOCATE ADJACENT TO WALKS OR DRIVES FOR MAINTENANCE ACCESS. INSTALL 180G MAXI JET TOP MAT MICROSPRAY NOZZLE ADJACENT TO FLUSH BOX. DIRECT SPRAY TOWARD PLANTINGS. XERI-BUGS ARE NOT NECESSARY FOR THOSE PLANTS COVERED BY MICROSPRAY.

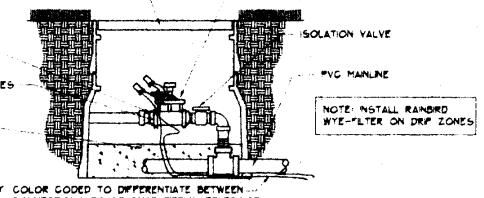
G 4 RAINBIRD PEB VALVE
NOT TO SCALE

AMETEK JUMBO VALVE BOX EXTENSIONS AS NECESSARY FOR 2" CLEARANCE ABOVE AND BELOW VALVE. SET BOX FLUSH WITH EXISTING GRADE IN LAWN AREA. FLUSH WITH MULCH IN SHRUB BEDS.

LATERAL TO BE 1/2" LARGER THAN VALVE SIZE (UNLESS NOTED ON PLAN) TO FIRST TEE. BURY AT 18" MIN.

PVC UNION AND SCHED 80 NIPPLES ARE TO BE USED ON ALL VALVE MANIFOLD ASSEMBLIES.

4" OF 3/4" GRAVEL BELOW VALVE. FIRMLY SEAT VALVE BOX TO AVOID MOVEMENT



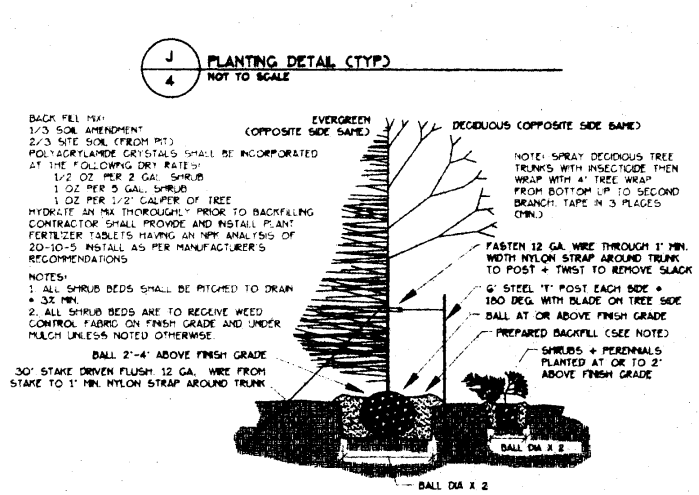
ALL WIRE TO BE #14 DIRECT BURY. COLOR CODED TO DIFFERENTIATE BETWEEN GROUND AND CONTROL WIRES. ALL CONNECTIONS TO BE SNAP TITE WATERPROOF CONNECTIONS. BURY WIRE BELOW MAIN TO PROTECT. PROVIDE 1 EXTRA DIFFERENT COLORED WIRE TO THE END OF MAINLINE LOOPED + EACH VALVE CLUSTER

J 4 PLANTING DETAIL (TYP.)
NOT TO SCALE

BACK FILL MIX:
1/3 SOIL AMENDMENT
2/3 SITE SOIL (FROM PIT)
POLYACRYLAMIDE CRYSTALS SHALL BE INCORPORATED AT THE FOLLOWING DRY RATES:
- 1/2 OZ. PER 2 GAL. SHRUB
- 1 OZ PER 5 GAL. SHRUB
- 1 OZ PER 1/2" CALIPER OF TREE

HYDRATE IN MIX THOROUGHLY PRIOR TO BACKFILLING. CONTRACTOR SHALL PROVIDE AND INSTALL PLANT FERTILIZER TABLETS HAVING AN NPK ANALYSIS OF 20-10-5. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.

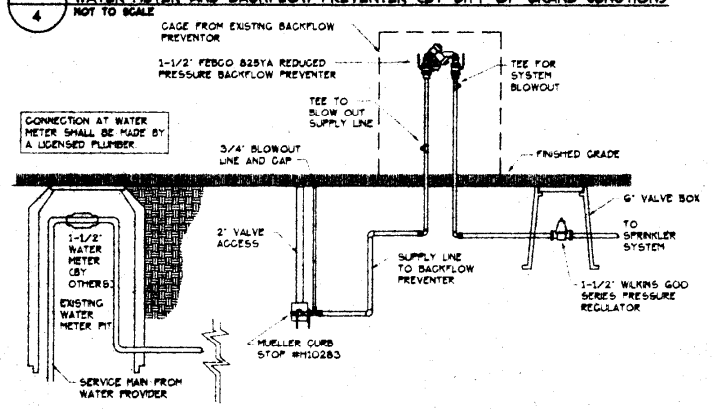
NOTES:
1. ALL SHRUB BEDS SHALL BE PITCHED TO DRAIN + 3% MIN.
2. ALL SHRUB BEDS ARE TO RECEIVE WEED CONTROL FABRIC ON FINISH GRADE AND UNDER MULCH UNLESS NOTED OTHERWISE.



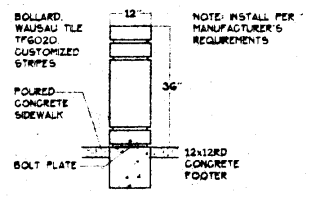
BALL 2"-4" ABOVE FINISH GRADE

30" STAKE DRIVEN FLUSH. 12 GA. WIRE FROM STAKE TO 1" MIN. NYLON STRAP AROUND TRUNK

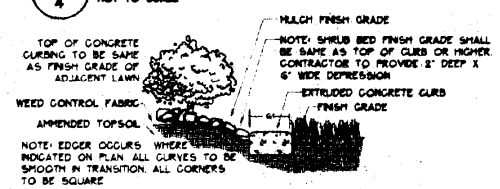
H 4 WATER METER AND BACKFLOW PREVENTER (BY CITY OF GRAND JUNCTION)
NOT TO SCALE



I 4 BOLLARD (TYP.)
NOT TO SCALE



K 4 CONCRETE EDGER (TYP.)
NOT TO SCALE



LANDSCAPE AND IRRIGATION DETAILS

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY MH
CHECKED BY TC
JOB NO. 0001
DATE 4-24-01
REVISIONS

DRAWING NO. 0801-04-24-01-L4

SHEET NO. L4

STATUS
- DRAFT
- PRELIMINARY
- BID
- CONSTRUCTION
- AS BUILT

CIAVONNE & ASSOCS., INC.
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EMAIL: ciavonne@gj.net

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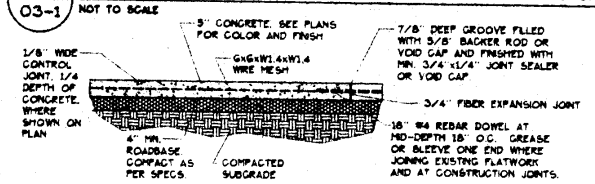
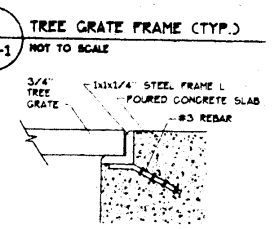
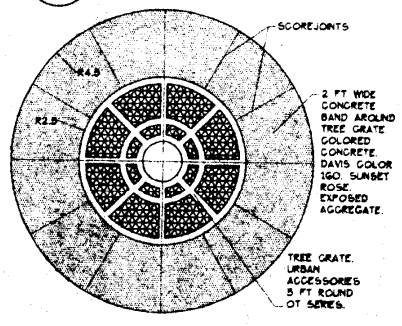
A 03-1 CONCRETE, CONTROL JOINT, AND EXPANSION JOINT SECTIONS (TYP.)
NOT TO SCALE



B 03-1 TREE GRATE FRAME (TYP.)
NOT TO SCALE



C 03-1 TREE GRATE (TYP.)
NOT TO SCALE

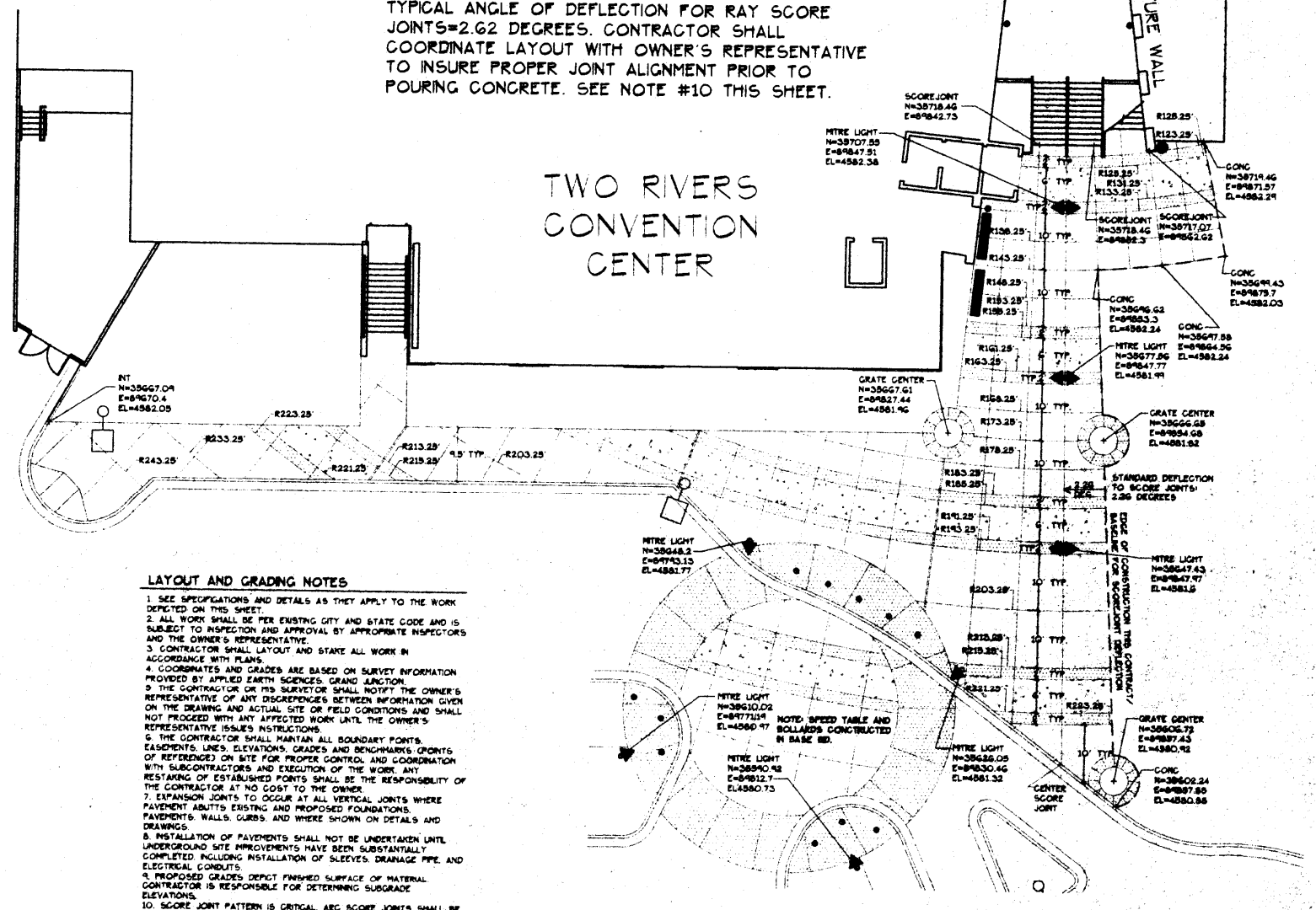


LEGEND

- 8 FT BENCH
- TREE GRATE AND CONCRETE BAND
- TRASH RECEPTICLE
- TRASH/ASH RECEPTICLE
- PUBLIC SERVICE LIGHT, BASE BID
- MITRE LIGHT, OPTIONS PACKAGE
- BOLLARD, BASE BID
- COLORED CONCRETE: DAVIS COLOR 160, SUNSET ROSE EXPOSED AGREGATE
- UNCOLORED CONCRETE: EXPOSED AGREGATE
- UNCOLORED CONCRETE: NOT EXPOSED AGREGATE
- CONTROL JOINT
- EXPANSION JOINT, SEE NOTE #7

SITE FURNITURE SCHEDULE

2-DUMOR, INC. 8 FT BENCHES, BENCH 104
3-DUMOR, INC. ASH/TRASH RECEPTICLE 129
1-DUMOR, INC. TRASH RECEPTICLE 84



NOTES:
CENTER POINT FOR PLAZA LAYOUT AND SCORE JOINT PATTERN IS NORTH OF NE BUILDING ENTRANCE:
N=35840.22 E=89846.74

TYPICAL ANGLE OF DEFLECTION FOR RAY SCORE JOINTS=2.62 DEGREES. CONTRACTOR SHALL COORDINATE LAYOUT WITH OWNER'S REPRESENTATIVE TO INSURE PROPER JOINT ALIGNMENT PRIOR TO POURING CONCRETE. SEE NOTE #10 THIS SHEET.

LAYOUT AND GRADING NOTES

1. SEE SPECIFICATIONS AND DETAILS AS THEY APPLY TO THE WORK DEPICTED ON THIS SHEET.
2. ALL WORK SHALL BE PER EXISTING CITY AND STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL LAYOUT AND STAKE ALL WORK IN ACCORDANCE WITH PLANS.
4. COORDINATES AND GRADES ARE BASED ON SURVEY INFORMATION PROVIDED BY APPLIED EARTH SCIENCES, GRAND JUNCTION.
5. THE CONTRACTOR OR HIS SURVEYOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPENCIES BETWEEN INFORMATION GIVEN ON THE DRAWING AND ACTUAL SITE OR FIELD CONDITIONS AND SHALL NOT PROCEED WITH ANY AFFECTED WORK UNTIL THE OWNER'S REPRESENTATIVE ISSUES INSTRUCTIONS.
6. THE CONTRACTOR SHALL MAINTAIN ALL BOUNDARY POINTS, EASEMENTS, LINES, ELEVATIONS, GRADES AND BENCHMARKS. (POINTS OF REFERENCE) ON SITE FOR PROPER CONTROL AND COORDINATION WITH SUBCONTRACTORS AND EXECUTION OF THE WORK. ANY RESTAKING OF ESTABLISHED POINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO COST TO THE OWNER.
7. EXPANSION JOINTS TO OCCUR AT ALL VERTICAL JOINTS WHERE PAVEMENT ABUTTS EXISTING AND PROPOSED FOUNDATIONS, PAVEMENTS, WALLS, CURBS, AND WHERE SHOWN ON DETAILS AND DRAWINGS.
8. INSTALLATION OF PAVEMENTS SHALL NOT BE UNDERTAKEN UNTIL UNDERGROUND SITE IMPROVEMENTS HAVE BEEN SUBSTANTIALLY COMPLETED INCLUDING INSTALLATION OF SLEEVES, DRAINAGE PIPE, AND ELECTRICAL CONDUITS.
9. PROPOSED GRADES DEPICT FINISHED SURFACE OF MATERIAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING SUBGRADE ELEVATIONS.
10. SCORE JOINT PATTERN IS CRITICAL. ARC SCORE JOINTS SHALL BE SMOOTH AND TRUE CURVES. RAY SCORE JOINTS SHALL BE STRAIGHT AND TRUE. RAY SCORE JOINTS ARE APPROPRIATE AND BASED ON ALIGNMENT OF "CENTER SCORE JOINT" WITH THE MIDDLE OF THE ENTRY STAIRS AND ALIGNMENT WITH "FEATURE WALL". COORDINATE LAYOUT WITH OWNER'S REPRESENTATIVE PRIOR TO POURING CONCRETE.

OPTIONS PACKAGE #3 PLAZA CONCRETE LAYOUT AND GRADING

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY: SC
CHECKED BY: RC
JOB NO.: 0001
DATE: 4-24-01
REVISIONS:
DRAWING NO.: 0001-04-24-01-S

SHEET NO.: 03-1

STATUS
- DRAFT
- PRELIMINARY
- BID
- CONSTRUCTION
- AS BUILT

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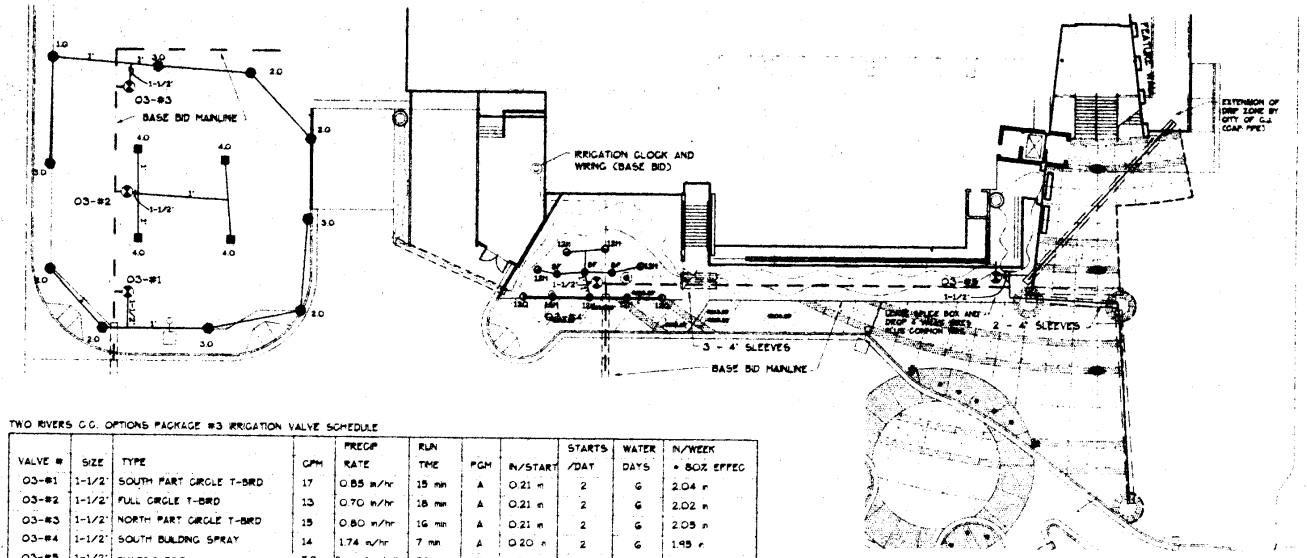


TWO RIVERS C.C. OPTIONS PACKAGE #3 IRRIGATION VALVE SCHEDULE

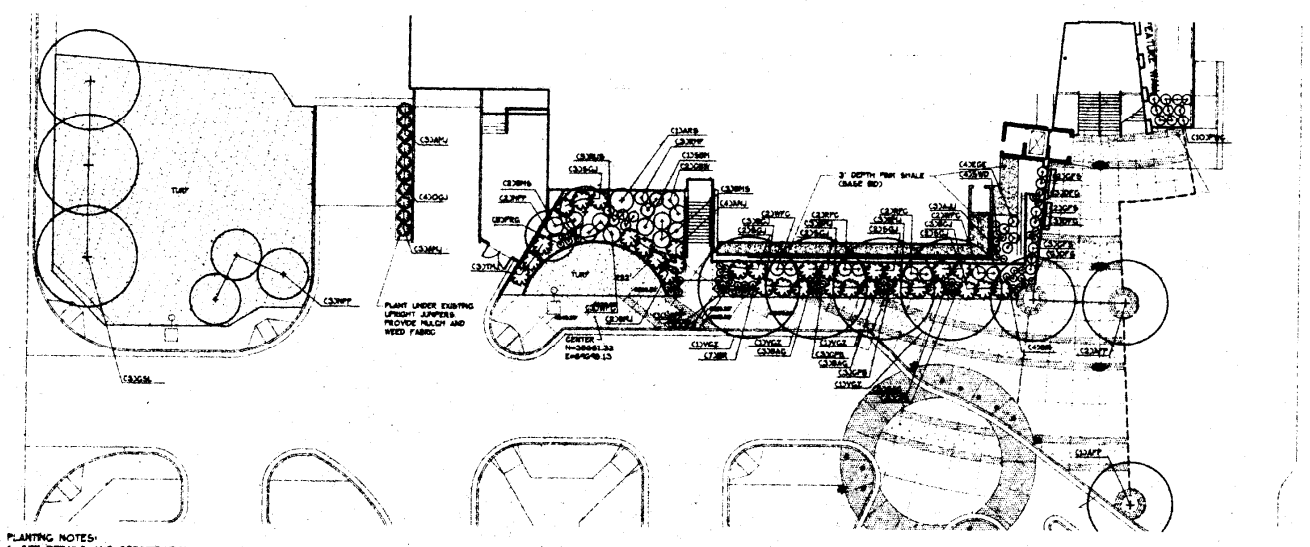
VALVE #	SIZE	TYPE	GPM	PRECIP RATE	RUN TIME	PGM	IN/START	STARTS /DAY	WATER DAYS	IN/WEEK + BOX EFFEC
03-B1	1-1/2"	SOUTH PART CIRCLE T-BIRD	17	0.85 in/hr	15 min	A	0.21 in	2	G	2.04 in
03-B2	1-1/2"	FULL CIRCLE T-BIRD	13	0.70 in/hr	18 min	A	0.21 in	2	G	2.02 in
03-B3	1-1/2"	NORTH PART CIRCLE T-BIRD	15	0.80 in/hr	16 min	A	0.21 in	2	G	2.05 in
03-B4	1-1/2"	SOUTH BUILDING SPRAY	14	1.74 in/hr	7 min	A	0.20 in	2	G	1.93 in
03-B5	1-1/2"	BUILDING DRIP	7.0	2 gal/emit/hr	56 min	B	1.9 gal	2	2	6.0 gal

WATER BUDGET SETTINGS	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT
	90%	100%	130%	160%	120%	90%	70%

IRRIGATION LEGEND

- RAINBIRD 1804 SERIES SPRAY HEAD WITH NOZZLE AS SHOWN
- CLASS 160 PVC LATERAL PIPE 1 IN. UNLESS OTHERWISE NOTED
- CLASS 160 PVC LATERAL FOR DRIP ZONES 1 IN. UNLESS OTHERWISE NOTED
- CLASS 200 PVC MAINLINE 2 IN. UNLESS OTHERWISE NOTED
- INITIAL MAINLINE CONSTRUCTION (2 IN.)
- IRRIGATION SLEEVING, 4" UNLESS OTHERWISE NOTED.
- ISOLATION VALVE
- MANUAL DRAIN VALVE
- RAINBIRD PEB ZONE VALVE. SIZE SHOWN IN VALVE SCHEDULE
- RAINBIRD QUICK COUPLER
- COMPRESSION 'T' FITTING
- DRIP ZONE FLUSH BOX
- RAINBIRD ESP-MC 40 WALL MOUNT IRRIGATION CLOCK IN EXTERIOR CABINET
- RAINBIRD T-BIRD T-40 SERIES ROTOR SPRINKLER PART CIRCLE NOZZLE SIZE SHOWN (OPTIONS #3 PACKAGE)
- RAINBIRD T-BIRD T-30 SERIES ROTOR SPRINKLER FULL CIRCLE WITH NOZZLE SHOWN (OPTIONS #3 PACKAGE)
- LIGHT FIXTURES - SEE CIVIL/ELECTRICAL DRAWINGS
- BOLLARDS - SEE CIVIL DRAWINGS
- TRANSFORMER (SEE ELECTRICAL DRAWINGS)

IRRIGATION NOTES:
1. ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
2. CITY OF GRAND JUNCTION TO INSTALL WATER METER. METER PIT BACKFLOW PREVENTOR AND ASSOCIATED HARDWARE TO CODE.
3. CONTRACTOR IS TO CONNECT TO BACKFLOW PREVENTOR AND PROVIDE INITIAL MAINLINE AND SLEEVING AT BEGINNING OF PROJECT DEMOLITION TO PROVIDE IRRIGATION WATER TO EXISTING LANDSCAPE AT BUILDING.
4. ALL LATERAL AND MAIN LINES IN SYSTEM WILL BE CONTAINED IN SLEEVES WHEREVER CONCRETE IS TO BE OVERLAID.
5. PIPE SIZES ARE SHOWN AT TRANSITION.
6. CLOCK TO BE MOUNTED ON BUILDING WALL WHERE SHOWN.
7. MAXIMUM LENGTH OF SWING PIPE ON ALL HEADS SHALL BE 10 FT. MINIMUM LENGTH SHALL BE 2 FT.
8. ALL MAINS SHALL BE BURIED AT A MINIMUM DEPTH OF 18 IN. ALL LATERALS AT A DEPTH OF 12 IN. ALL VALVE WIRING SHALL BE BUNDLED BY TAPING AT 25 FT. INTERVALS AND PLACED BELOW IRRIGATION PIPING FOR PROTECTION.
9. CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT LOW POINT ON ALL MAIN LINES.
10. PRESSURE REGULATING VALVE TO BE PLACED FOLLOWING BACKFLOW PREVENTOR.
11. DRIP ZONES TO HAVE WYE FILTERS AFTER PEB VALVE
12. MAINLINE IS DIAGRAMMATIC. TO BE LOCATED WITH XCEL ENERGY TRENCH WHERE POSSIBLE
13. SYSTEM IS DESIGNED TO OPERATE AT 40 PSI AT HEADS.
14. SEE SHEET L4 FOR DETAILS.



PLANTING NOTES:
1. SEE DETAILS AND SPECIFICATIONS AS THEY APPLY TO THIS AND RELATED WORK.
2. ALL CONCRETE EDGER PLACEMENT (LINE AND GRADE) SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ANY PLANTING OR IRRIGATION. CONTRACTOR SHALL SCALE EDGER LOCATION FROM THE DRAWINGS.
3. EXCAVATE TO REMOVE ALL GRAVEL, TRASH, ETC. FROM ALL SHRUB BEDS. (SEE SPECIFICATIONS)
4. WEED CONTROL FABRIC TO BE MIRASCAPE 1 OR OTHER NON-WOVEN WEED CONTROL FABRIC. FABRIC TO BE LAPPED 6" AT ALL JOINTS. FABRIC SHALL BE CUT AS CLOSE AS POSSIBLE TO ALL STRUCTURES, INCLUDING LIGHT POLE BASES, CURBS, RAIL BASES, ETC.
5. ALL SHRUB BEDS TO RECEIVE TOPSOIL, SOIL AMENDMENT, WEED FABRIC AND MULCH. MULCH TO BE A MIXTURE OF 60% CLEAN SHAVINGS OF MODERN COURSED SHREDDED ASPEN BARK, FREE OF TRASH, STICKS OR ROOTS AND 40% PINK SHALE ROCK, A MIXTURE OF 3/4" TO 2-1/2" SIZES.
6. ALL SHRUB BEDS TO BE MOUNDED (SEE SPECIFICATIONS)
7. ALL TURF AREAS TO RECEIVE TOPSOIL AND SOIL AMENDMENT PRIOR TO SODDING.
8. IF LISTED PLANT QUANTITIES REQUIRE PARTIAL SUBSTITUTION WITH ALTERNATE PLANT SPECIES, THEN SUBSTITUTE PLANTINGS SHALL BE RESTRICTED TO SINGLE SPECIES PER GROUPING.

PLANT LIST - Options Package #3

Qty	Key	Common Name	Scientific Name	Size
Deciduous Trees				
3	APP	Aristocrat Pear	Pyrus calleryana 'Aristocrat'	1-1/2"
3	GSL	Greenspire Linden	Tilia cordata 'Greenspire'	1-1/2"
5	NPP	Newport Plum	Prunus cerasifera 'Newport'	1-1/2"
4	VGZ	Village Green Zelkova	Zelkova serrata 'Village Green'	1-1/2"
Deciduous Shrubs				
1	ARS	Aroon Rose of Sharon	Hybiscus syriacus 'Aroon'	5 gal
5	BMS	Blue Mist Spirea	Caryopteris incana	5 gal
2	GBM	Compact White Butterfly Bush	Buddleia davidii nanhoensis 'Petite Snow'	5 gal
19	GPB	Crimson Pygmy Barberry	Berberis thunbergii 'Atropurpurea nana'	5 gal
7	GFS	Gold Flame Spirea	Spirea bumalda 'Gold Flame'	5 gal
4	RFC	Red Flower Carpet Rose	Rosa x 'Flower Carpet' Noatraum	2 gal
3	RMF	Goldmarie Buckthorn	Rhamnus frangula 'Columnaris'	5 gal
1	SBP	Scotch Broom	Cytisus scoparius 'Moonlight'	5 gal
7	WFC	White Flower Carpet Rose	Rosa x 'Flower Carpet' Noatraum	2 gal
Evergreen Shrubs				
6	AMJ	Armstrong Juniper	Juniperus chinensis 'Armstrong'	5 gal
4	ANJ	Andorra Juniper	Juniperus horizontalis 'Andorra'	5 gal
5	BCJ	Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	5 gal
8	BMJ	Broadmoor Juniper	Juniperus sabina 'Broadmoor'	5 gal
4	EGE	Emerald Gaiety Euonymus	Euonymus fortunei 'Emerald Gaiety'	5 gal
4	OGJ	Old Gold Juniper	Juniperus 'Pfitzeriana Old Gold'	5 gal
11	SGJ	Sea Green Juniper	Juniperus chinensis 'Sea Green'	5 gal
5	TMJ	Tamey Juniper	Juniperus sabina 'Tamariscifolia'	5 gal
Perennial/Ground Covers				
3	ACU	Carpet Bugle	Ajuga reptans	1 gal
9	BAG	Blue Avena Grass	Helictotrichon sempervirens	1 gal
11	BR	Bearded Iris	Iris germanica	1 gal
12	DFG	Dwarf Fountain Grass	Pennisetum alopecuroides 'Hameln'	1 gal
5	FRG	Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 gal
10	PWC	Purple Wintercreeper	Euonymus fortunei 'Coloratus'	1 gal
10	RMP	Rocky Mountain Penstemon	Penstemon strictus	1 gal
5	RUS	Russian Sage	Perovskia atriplicifolia	1 gal
4	SWD	Sweet Woodruff	Galium odoratum	1 gal

PLANTING LEGEND

- DECIDUOUS TREE
- DECIDUOUS SHRUBS AND PERENNIALS
- EVERGREEN SHRUB
- TURF WITH EDGER
- TRANSFORMER (BY OTHERS)
- ELECTRICAL OUTLET FOR VENDOR USE (BY OTHERS)

SCALE: 1" = 20'-0"

OPTIONS PACKAGE #3 LANDSCAPE AND IRRIGATION PLAN

TWO RIVERS CONVENTION CENTER
CITY OF GRAND JUNCTION

DRAWN BY: MH
CHECKED BY: JC
JOB NO.: 0001
DATE: 4-24-01
REVISIONS:

DRAWING NO.: 0001-04-24-01-6

SHEET NO. 03-2

STATUS
- DRAFT
- PRELIMINARY
- BID
- CONSTRUCTION
- AS BUILT

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CODE REVIEW - 2000 UBC

USE AND OCCUPANCY CLASSIFICATION

BUILDING TO BE GROUP A-2 OCCUPANCY AND CONSTRUCTION TYPE II-B

SECTION 302(1) INCIDENTAL USE AREAS
TABLE 302(1) - INDICATES THE PARKING GARAGE REQUIRES A 1 HR SEPARATION FROM THE MAIN OCCUPANCY

GENERAL BUILDING HEIGHTS AND AREAS

SECTION 506 - AREA MODIFICATIONS- ALLOWS AREA INCREASES FOR FRONTAGE, AND BEING SINGLE STORY, CALCULATIONS CONFIRM TYPE II-B ALLOWED

TYPES OF CONSTRUCTION

TABLE 601 TYPE II-B
THIS TABLE INDICATES THAT NO FIRE RATING IS REQUIRED OR BUILDING ELEMENTS FOR THIS BUILDING

FIRE PROTECTION SYSTEMS

903.2.1.3 GROUP A-2
SPRINKLER SYSTEM REQUIRED THROUGHOUT FIRE AREA CONTAINING GROUP A-2 OCCUPANCY WHERE ONE OF THE FOLLOWING EXISTS:
1. THE FIRE AREA EXCEEDS 12,000 SF
2. THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE

BOTH OF THE ABOVE CONDITIONS EXIST SO A SPRINKLER SYSTEM IS REQUIRED.

GENERAL HEIGHTS OF EGRESS

1003.2.5 EGRESS WIDTH
THE TOTAL WIDTH OF MEANS OF EGRESS INCHES SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY THE FACTOR IN TABLE 1003.2.5 AND NOT LESS THAN SPECIFIED ELSEWHERE IN THIS CODE.

TABLE 1003.2.5 INDICATES THAT TYPE A OCCUPANCY WITH A SPRINKLER SYSTEM IS:
STAIRWAYS = 0.2
OTHER EGRESS COMPONENTS = 0.15

EXIT WIDTH REQUIRED:
1. EXHIBIT HALL 17,240 SF / 7 OCC. LOAD OF 2,462 X 0.15 = 384 IN. EXIT WIDTH

2. MEETING ROOMS TOTAL 4,482 SF / 7 OCC. LOAD OF 655 X 0.15 = 98 IN EXIT WIDTH
a. TYP. 3H, MTG RMS. 462 SF / 15 OCC. LOAD OF 30 X 0.15 = 4.5" OR MIN OF 32"
b. TYP L6, MTG RM (380 SF/ 15 = OCC. LOAD OF 25 X 0.15 = MIN 32"

3. OFFICE AREA 1080 SF / 100 = OCC. LOAD OF 0.15 = MIN 32"

4. KITCHEN 3366 SF / 200 = OCC. LOAD OF 17 X 0.15 = MIN 32"

EXIT WIDTH PROVIDED:
1. EXHIBIT HALL 3 1 DOUBLE & PT. DOORS ASSUME 66" NET OPENING EACH = 476 TOTAL IN.

2. MEETING ROOMS- TOTAL EXIT WIDTH 4 @ 34", 2 @ 66" = 264 TOTAL WIDTH
a. 3H MTG. RM. 1 DOOR @ 34" CLEAR
b. L6. MTG RM @ DOUBLE & PT. DOOR 66" CLEAR

3. OFFICE AREA - 1 DOOR @ 34" CLEAR

4. KITCHEN - 2 DOUBLE DOORS @ 68" EA. = 272"

TOTAL EXIT WIDTH REQUIRED:
1. EXHIBIT HALL 384 IN
2. MEETING ROOMS 98 IN
3. KITCHEN 32 IN
4. OFFICE 32 IN
TOTAL 526 IN. EXIT WIDTH REQUIRED

TOTAL EXIT WIDTH PROVIDED:
1. LOBBY AREA 6 @ 34" = 204 IN
2. MEETING ROOMS 4 @ 34" = 136 IN
3. LOADING DOCK 6 @ 34"=204 IN
4. N. SIDE EXHIBIT 4 @ 34" = 136 IN
5. KITCHEN 1 @ 34" = 34 IN
TOTAL 714 IN. EXIT WIDTH PROVIDED

EXIT ACCESS

1004.2.1 EXIT OR EXIT ACCESS DOORWAY REQUIRED
TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE ON OF THE FOLLOWING CONDITIONS EXIST:
1. THE OCCUPANT LOAD OF THE SPACE EXCEEDS THE VALUES IN TABLE 1004.2.1, TABLE 1004.2.1 STATES OCCUPANCY A REQUIRES:
TWO EXITS IF OCCUPANT LOAD IS OVER 50
TWO EXITS REQUIRED FOR OCCUPANT LOAD HIGH
THREE EXITS REQUIRED FOR OCCUPANT LOAD OF 501-1000
FOUR EXITS REQUIRED FOR OCCUPANT LOAD OF MORE THAN 1000

EXIT ACCESS- REQUIRED AND PROVIDED
1. EXHIBIT HALL - 2,462 OCCUPANTS, 4 EXITS REQUIRED, 1 PROVIDED
2. MEETING ROOMS
LARGE - 65 OCCUPANTS, 2 EXITS REQUIRED, 2 PROVIDED
SMALL - 30 OCCUPANTS, 1 EXIT REQUIRED, 1 PROVIDED

SECTION 1004.2.4- EXIT TRAVEL DISTANCE
THERE IS NO POINT IN THIS STRUCTURE THAT IS GREATER THAN 250 FEET FROM AN EXIT

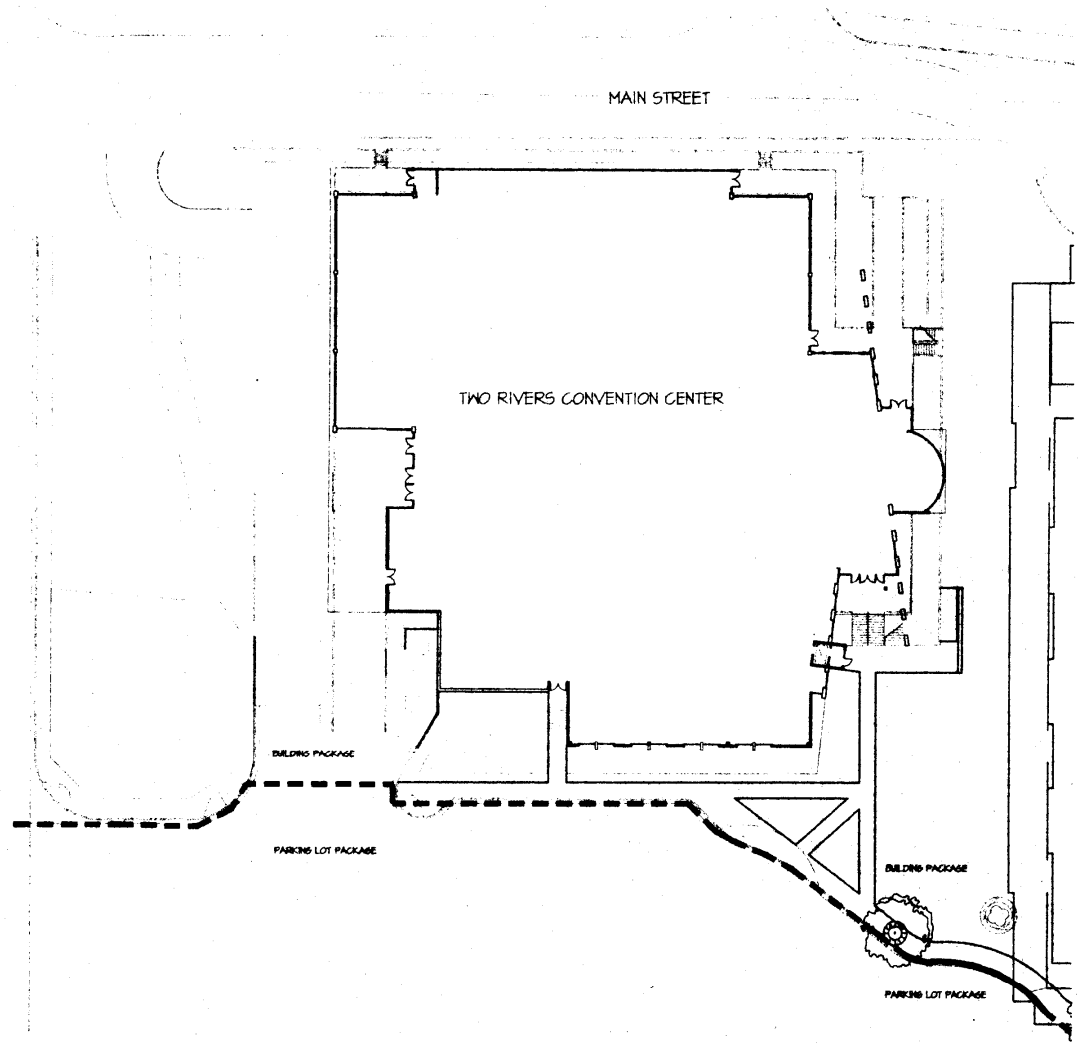
1005.8.2 CORRIDORS-
CONSTRUCTION CORRIDORS SHALL BE FIRE- RESISTANT RATED IN ACCORDANCE WITH TABLE 1004.2.1
TABLE STATES: OCCUPANCY A WITH AN OCCUPANT LOAD SERVED BY CORRIDOR GREATER THAN 30, WITH A SPRINKLER SYSTEM (49) A REQUIRED FIRE-RESISTANCE RATINGS (HOURS) OF 0.

1005 - EXITS
1005.2.1- MINIMUM NUMBER OF EXITS. EVERY FLOOR AREA SHALL BE PROVIDED WITH THE MINIMUM NUMBER OF APPROVED INDEPENDENT EXITS AS REQUIRED BY TABLE 1005.2.1 OR 1005.2.2
TABLE 1005.2.1- MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD MORE THAN 1000 = MINIMUM OF 4 EXITS

EXITS PROVIDED - 4 BANKS OF EXITS

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2000 UNIFORM BUILDING CODE AND ALL FEDERAL, STATE, AND LOCAL CODES AND ANSI/ICBO HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND RESPECTIVE SUBCONTRACTORS TO BUILD TO SATISFY THESE CODES AND CALL FOR ALL NECESSARY INSPECTIONS.
2. REFER TO PROJECT SPECIFICATIONS FOR FURTHER DEFINITION OF THE WORK.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS. CONTACT ARCHITECT FOR CLARIFICATION IN THE EVENT OF ANY DISCREPANCY IN THE CONSTRUCTION DOCUMENTS OR ANY AMBIGUITY OF ARCHITECTURAL INTENT.
4. ALL LEGAL EXITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
5. UNLESS DIMENSIONED OTHERWISE, DOOR LOCATIONS SHALL BE 3" FROM FINISH WALL TO EDGE OF DOOR OPENING.
6. THE LARGEST SCALE DRAWING SHALL GOVERN OVER ALL OTHER DRAWINGS.
7. "F.V." ON DRAWINGS REFERS TO FIELD VERIFICATION FOR CORRECT DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
8. CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED
9. THE GENERAL CONTRACTOR SHALL PREP ALL FLOORS TO RECEIVE FINISHES.
10. PROVIDE BACKING PLATES IN WALL PER MANUFACTURER'S RECOMMENDATIONS FOR ALL WALL MOUNTED EQUIPMENT AND CASEWORK. FOLLOW ALL RECOMMENDED INSTALLATION PROCEDURES OF THE MANUFACTURER FOR THEIR SPECIFIC PRODUCTS. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS AS NOTED ABOVE. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS WHICH RELATE TO EXISTING CONDITIONS. REPORT ANY DISCREPANCIES TO ARCHITECT.
11. DIMENSIONS SHOWN ON PLANS ARE TO FINISH FACE OF WALL.
12. COORDINATE DUCT, FLUE, AND VENT PENETRATIONS WITH MECHANICAL CONTRACTOR.
13. LOCATE ALL PLUMBING IN PROTECTED AREAS TO AVOID FREEZING OF PIPES AND TRAPS.
14. ALL ELEVATIONS SHOWN ON PLANS ARE BUILDING ELEVATIONS.
15. PROVIDE FIRE EXTINGUISHERS AS SHOWN ON THE DRAWINGS.
16. PROVIDE TRAPEZE TO SUPPORT SUSPENDED CEILINGS AS REQUIRED BELOW DUCTWORK OR OTHER OBSTRUCTIONS.
17. ALL WOOD BLOCKING SHALL BE FIRE RESISTANT TREATED WOOD (FRTW).



1 VICINITY MAP
NOT TO SCALE

SINK COMBS DETHLEFS
A Professional Corporation
Architecture
1676 Logan Street, Suite 200
Denver, Colorado 80203
720 258 8000
FAX 258 8010

ISSUES/REVISIONS:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
SITE/ FAR REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

CODE REVIEW

Drawn by:
Checked by:

A0.10

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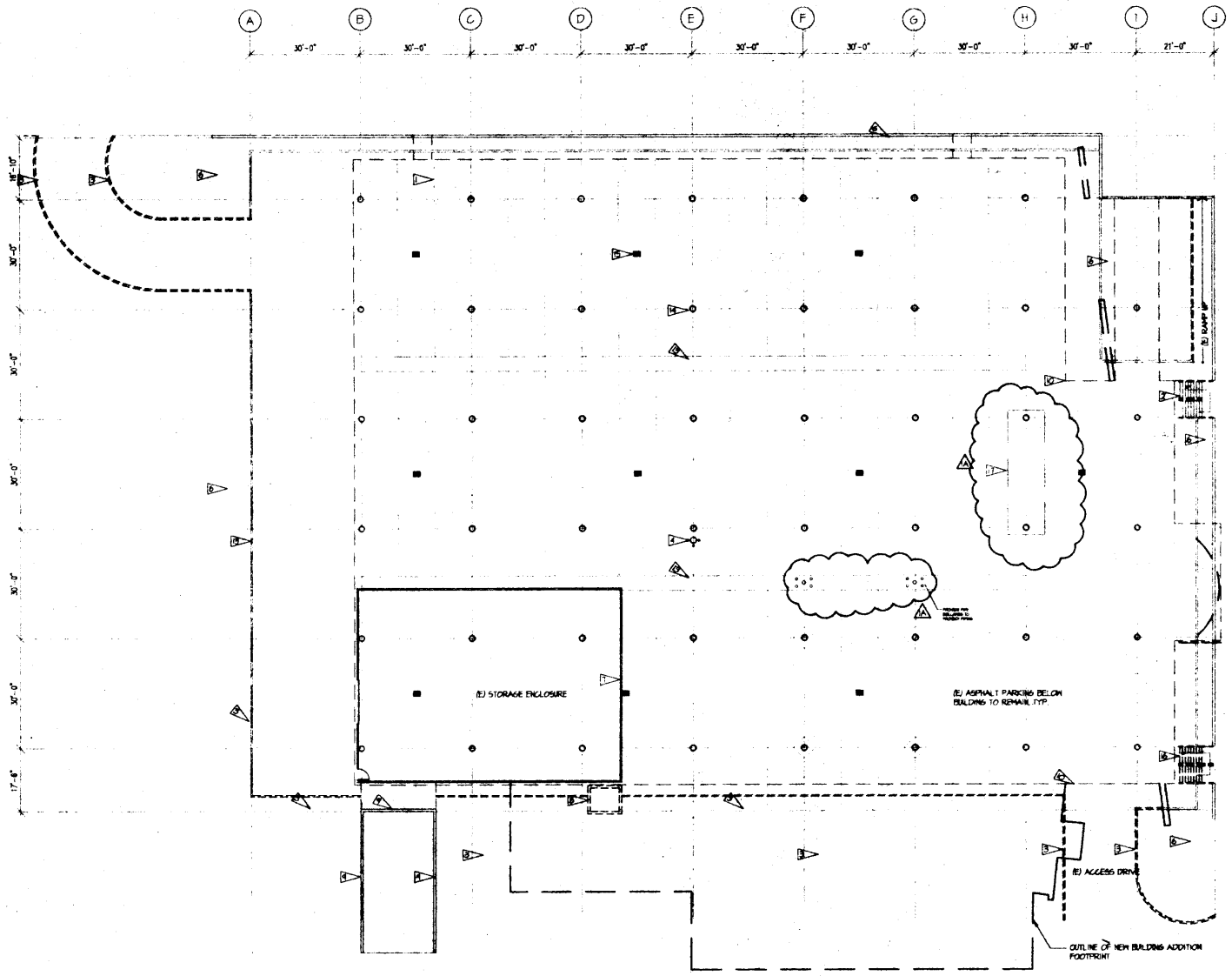


DEMOLITION PLAN NOTES

1. NO WORK IN THIS AREA.
2. EXISTING CONC. STAIRS TO REMAIN
3. REMOVE EXISTING ASPHALT DRIVEWAYS, PARKING AREAS, CURB & GUTTER & LANDSCAPING. REFER TO CIVIL / LANDSCAPE DRAWINGS
4. EXISTING FIRE HYDRANT & PIPE BOLLARDS TO REMAIN.
5. REMOVE EXISTING CONC. CURB. REMOVE ASPHALT PAVING AS REQUIRED
6. REFER TO CIVIL/LANDSCAPE DRAWINGS FOR MORE ALL LANDSCAPE AREAS
7. EXISTING T-111 STORAGE ROOM WALLS TO REMAIN, TYP.
8. REMOVE EXISTING TRANSFORMER AND ENCLOSURE
9. EXISTING LOADING RAMP TO REMAIN. REMOVE EXISTING GUARD RAILS.
10. OUTLINE OF EXISTING BUILDING ABOVE
11. NOT USED
12. EXISTING CONC WALL TO REMAIN
13. EXISTING CONC. CURBS TO REMAIN
14. EXISTING CONC. COL. TO REMAIN, TYP.
15. EXISTING AREA DRAINS TO REMAIN, TYP.
16. REMOVE CONC. STAIR AND GUARDRAILS & HANDRAILS.
17. DEMOLISH SLAB AS REQUIRED TO TIE IN NEW PIPES

DEMOLITION GENERAL NOTES

1. REFER TO MEP PLANS FOR ADDITIONAL INFORMATION
2. PREPARE AND PAINT ALL EXTERIOR PAINTED SURFACES
3. COORDINATE ALL REMOVAL OR STORAGE OF EXTG SITE FURNITURE WITH OWNER.
4. GC TO COORDINATE AND RELOCATE EXTG UTILITY POLES AND UG LINES AS REQUIRED.

1 PARKING LEVEL DEMO PLAN

SCALE: NO SCALE

NORTH

P:\SGD\Dwg\SK41-10.dwg Wed Apr 25 17:58:22 2001

SINK COMBS DETHLEFS

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	11-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-14-01
ADDENDUM #2	3-28-01
FINAL CONSTRUCTION SET	4-26-01

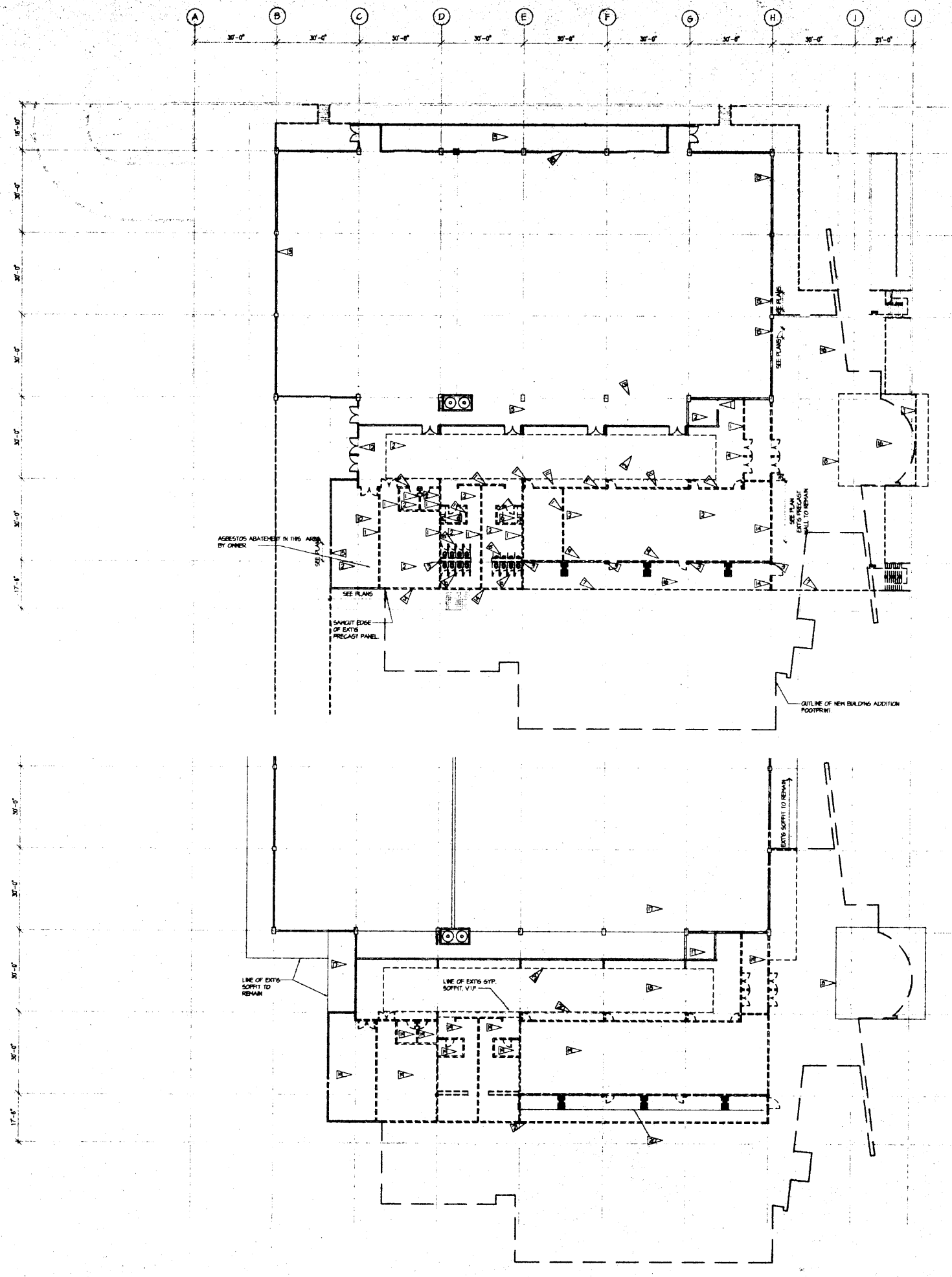
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

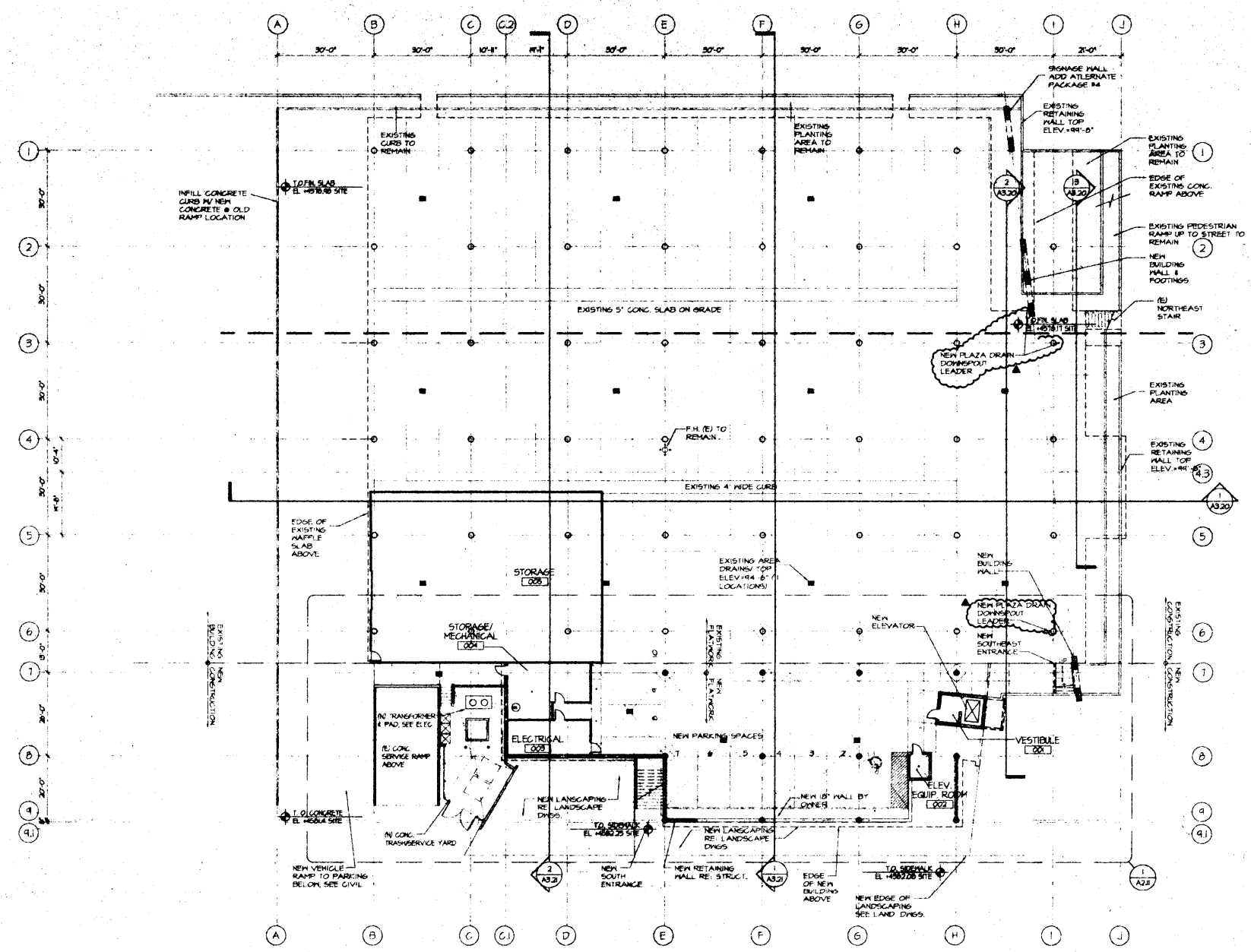
SGD Project No: 9924

EXISTING/ DEMO PARKING LEVEL PLAN

Drawn by:
Checked by:

A1.10


A
B
C
D
E
F
G
H
J
J
30'-0"
30'-0"
30'-0"
30'-0"
30'-0"
30'-0"
30'-0"
30'-0"
21'-0"
17'-6"
SEE PLANS
ASBESTOS ABATEMENT IN THIS AREA BY OWNER
SEE PLANS
SEE PLANS
SEE PLANS



GENERAL NOTES:

1. INDICATES NEW MTL STUD CONSTRUCTION SEE WALL TYPES SHEET A4.60
2. INDICATES NEW CONC. BLOCK CONSTRUCTION SEE WALL TYPES SHEET A4.60
3. INDICATES EXISTING WALLS SEE WALL TYPES - SHEET A4.30
4. INDICATES NEW CONCRETE CAST IN PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF GYP. BD.
   B. FACE OF CMU

1 PARKING LEVEL PLAN
SCALE: 1/8" = 1'-0"

NORTH

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SINK COMBS DETHLEFS

Issues/Revisions	Date:
SCHEMATIC DESIGN	11-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
1 ADDENDUM #2	3-28-01
FINAL CONSTRUCTION SET	4-26-01

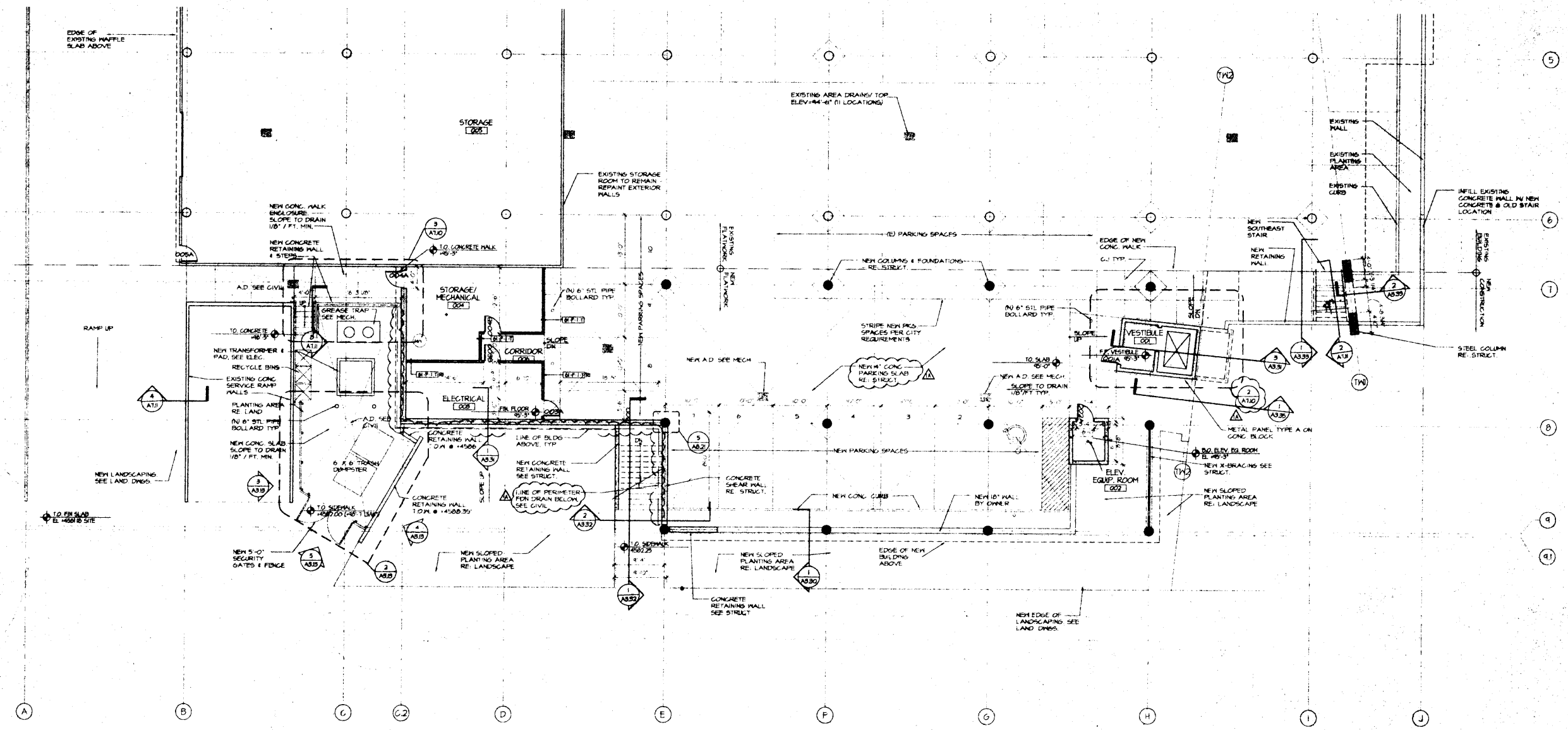
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No. 9824

PARKING LEVEL PLAN

Drawn by:
Checked by:

A2.10



GENERAL NOTES:

1. INDICATES NEW MTL. STUD CONSTRUCTION SEE WALL TYPES SHEET A41.00
2. INDICATES NEW CONC. BLOCK CONSTRUCTION SEE WALL TYPES SHEET A41.00
3. INDICATES EXISTING WALLS, SEE WALL TYPES - SHEET A41.00
4. INDICATES NEW CONCRETE CAST IN PLACE WALL
5. DIMENSIONS ARE TAKEN FROM A. FINISH FACE OF GYP. BD. B. FACE OF CMU.

1 ENLARGED PARKING LEVEL PLAN (PARTIAL)
SCALE: 1/8" = 1'-0"

NORTH

SINK COMBS DETHLEFS

ISSUES/REVISIONS:	DATE:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
1 ADDENDUM #2	3-28-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

ENLARGED PARKING LEVEL PLAN

Drawn by:
Checked by:

A2.11

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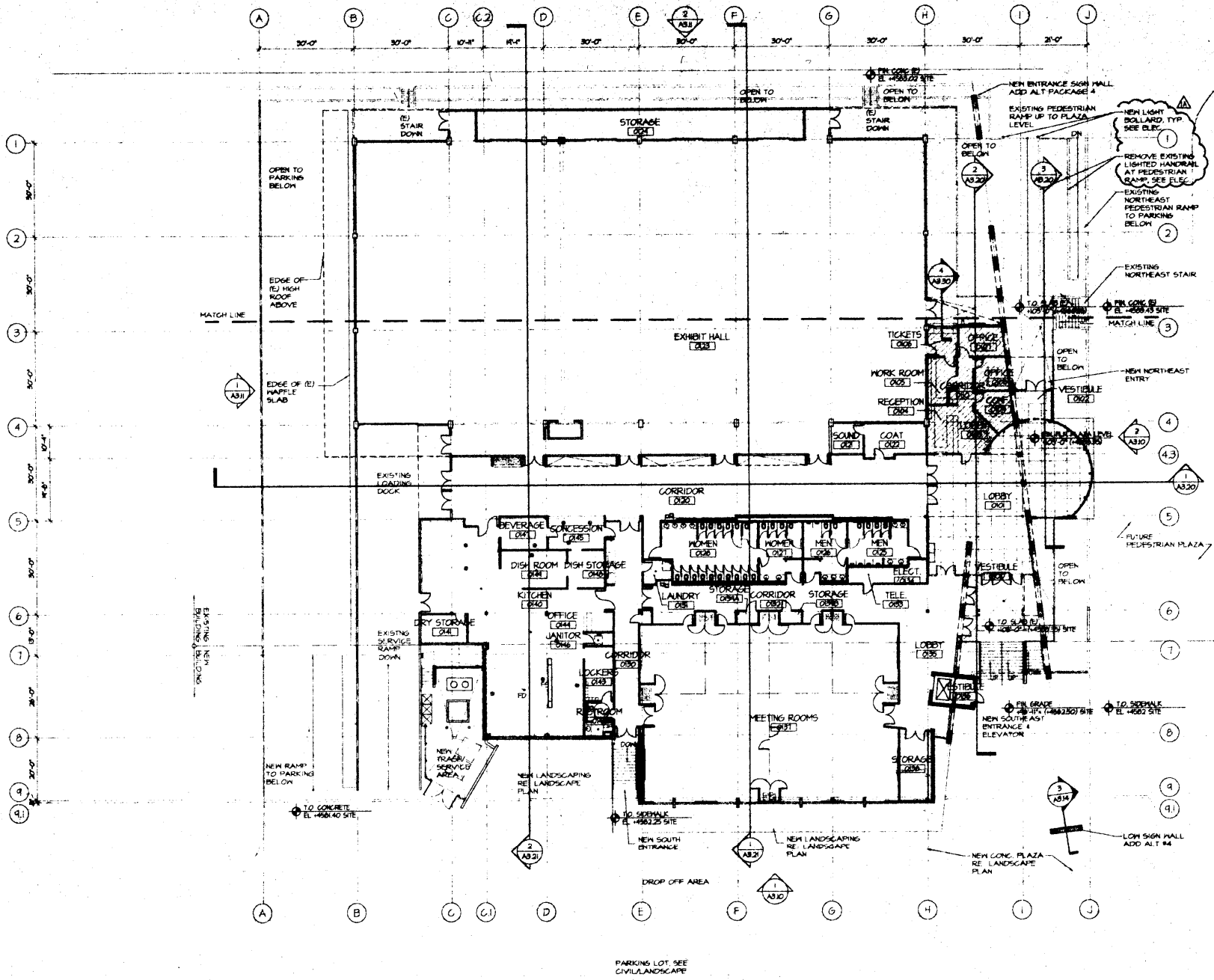

1 PLAZA LEVEL PLAN

SCALE: 1/16" = 1'-0"

NORTH

GENERAL NOTES:

1. INDICATES NEW MTL STUD CONSTRUCTION SEE WALL TYPES SHEET A11.0
2. INDICATES NEW CONC. BLOCK CONSTRUCTION SEE WALL TYPES SHEET A11.0
3. INDICATES EXISTING WALLS, SEE WALL TYPES - SHEET A11.0
4. INDICATES NEW CONCRETE CAST 'N PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF GYP. BD
   B. FACE OF CMU

SINK COMBS DETHLEFS

ISSUES/REVISIONS:	DATE:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-10-00
DESIGN DEVELOPMENT	12-13-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
⚠ ADDENDUM #2	3-28-01
FINAL CONSTRUCTION SET	4-28-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

PLAZA LEVEL PLAN

Drawn by:
Checked by:

A2.20

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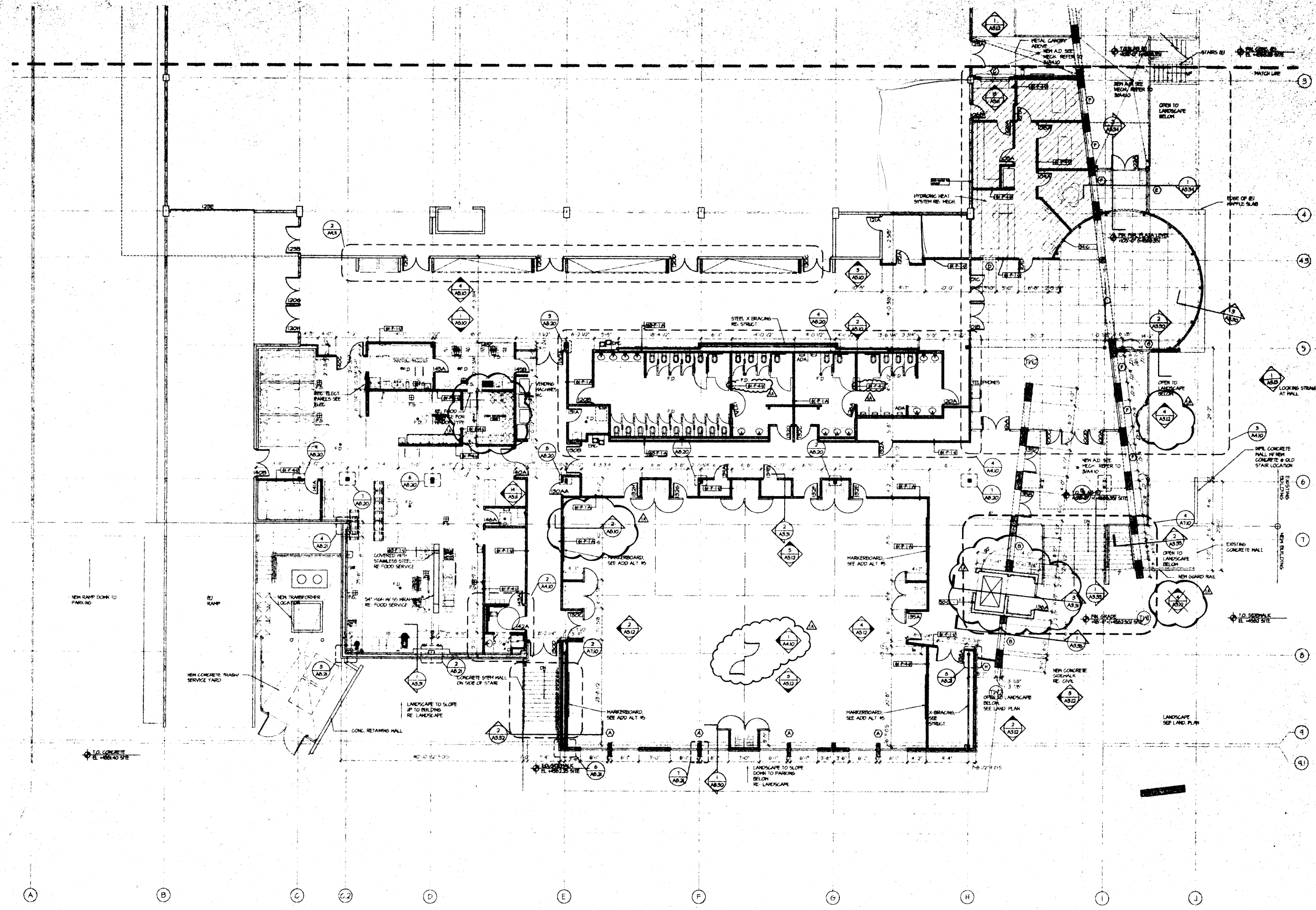

GENERAL NOTES:

1. INDICATES NEW MTL STUD CONSTRUCTION SEE WALL TYPES-SHEET A4.60
2. INDICATES NEW CONC. BLOCK CONSTRUCTION SEE WALL TYPES-SHEET A4.60
3. INDICATES EXISTING WALLS, SEE WALL TYPES SHEET A4.30
4. INDICATES NEW CONCRETE CAST IN PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF GYP. BD.
   B. FACE OF CMU

1 ENLARGED PLAZA LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

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SINK COMBS DETHLEFS

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
BIDDING REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
1 ADDENDUM #2	3-29-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

ENLARGED PLAZA LEVEL FLOOR PLAN

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Checked by:

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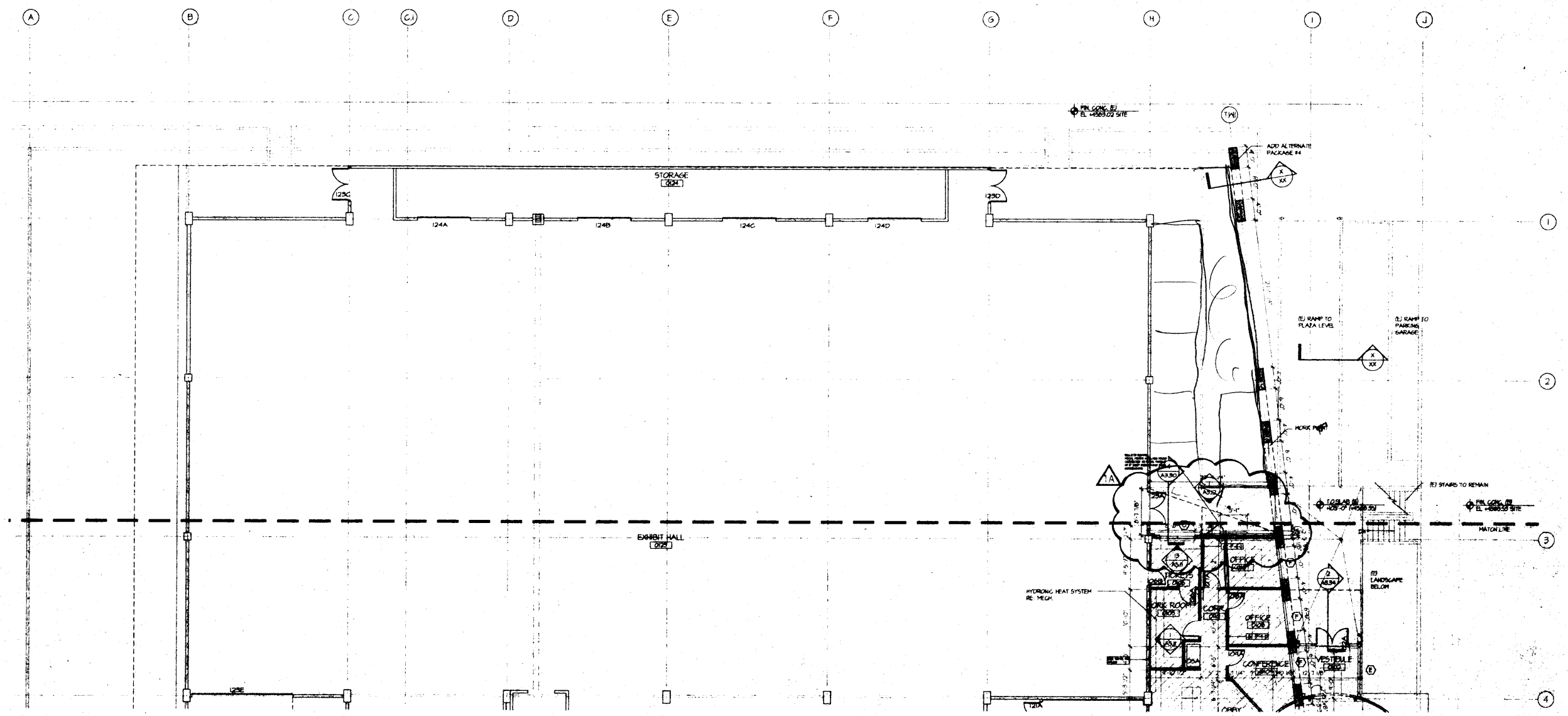

1 ENLARGED PLAZA LEVEL FLOOR PLAN - PARTIAL
SCALE: 3/8" = 1'-0"

NORTH

GENERAL NOTES:

1. INDICATES NEW MTL. STUD CONSTRUCTION SEE WALL TYPES SHEET A1.60
2. INDICATES NEW CONC. BLOCK CONSTRUCTION SEE WALL TYPES SHEET A1.60
3. INDICATES EXISTING WALLS SEE WALL TYPES - SHEET A1.30
4. INDICATES NEW CONCRETE CAST IN PLACE WALL
5. DIMENSIONS ARE TAKEN FROM
   A. FINISH FACE OF GYP. BD.
   B. FACE OF CMU

SINK COMBS DETHLEFS

Issues/Revisions	Date
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-19-01
CONSTRUCTION DOCUMENTS	3-9-01
ADDENDUM #2	3-30-01
FINAL CONSTRUCTION SET	4-30-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 99124

ENLARGED PLAZA LEVEL FLOOR PLAN - PARTIAL

Drawn by:
Checked by:

A2.22

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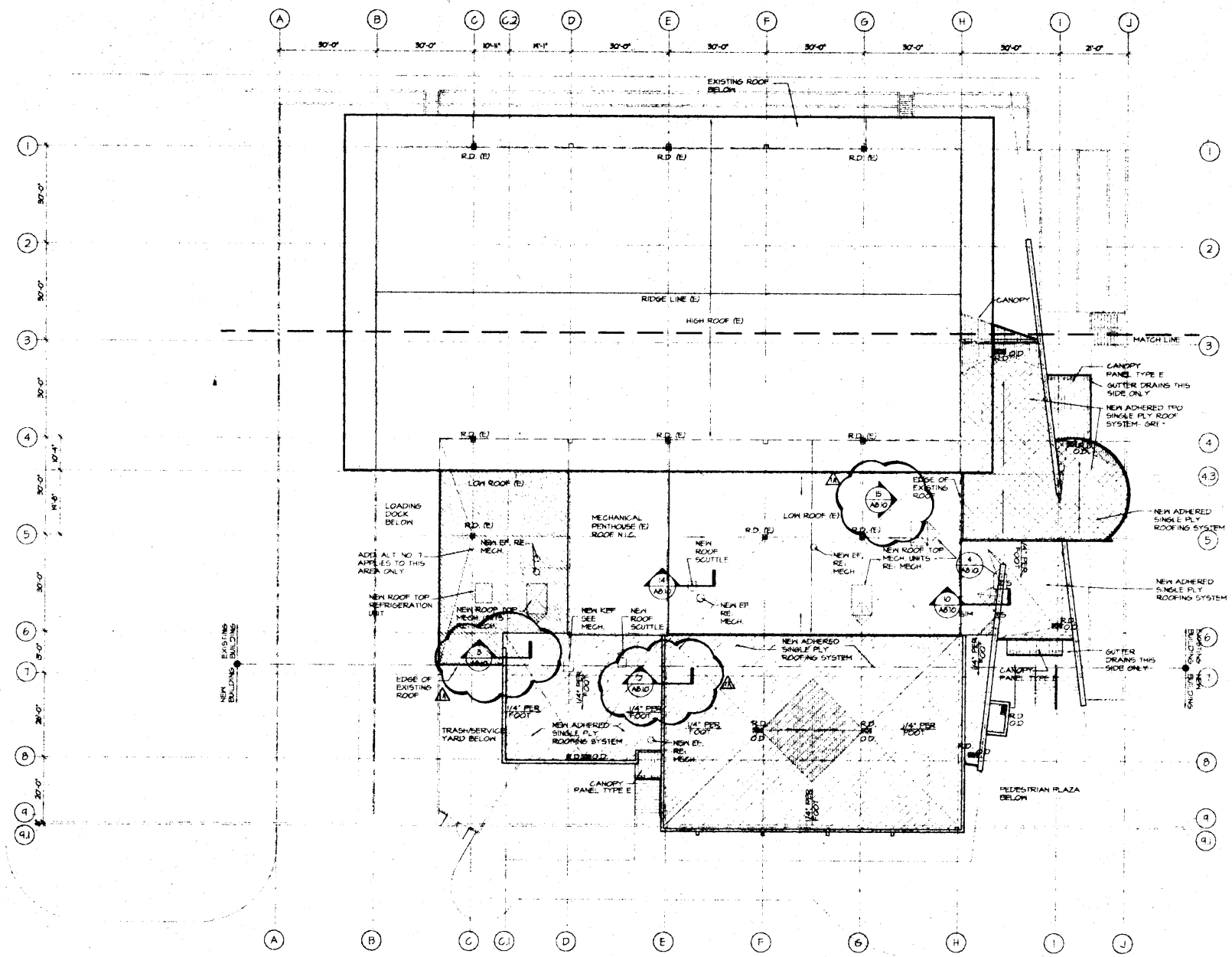
NOTES:
1) ADD ALTERNATE NO. 6 IS TO USE ASPHALTIC BUILT-UP ROOFING SYSTEM IN ALL LOCATIONS THAT ARE CURRENTLY SHOWING ADHERED EPDM SYSTEM.

2) ADD ALTERNATE NO. 7 IS TO REPLACE EXISTING BUILT UP ROOFING SYSTEM OVER KITCHEN AS SHOWN WITH EITHER BUILT UP ROOFING OR EPDM PRICE BOTH OPTIONS

LEGEND

- ROOF MOUNTED EQUIPMENT SEE MECHANICAL DRAWINGS
- R.D. / O.D. — ROOF DRAIN OR OVERFLOW DRAIN SEE MECHANICAL DRAWINGS
- S — THROUGH-WALL SCUPPER
- TAPERED INSULATION CRICKET TO PROVIDE MIN. 1/4" PER FOOT SLOPE
- AREAS TO RECEIVE EPDM ROOFING
- AREAS TO RECEIVE NEW TPO ROOFING



1 ROOF LEVEL PLAN
SCALE: 1/16" = 1'-0"

NORTH

P:\99241\dwg\99241-2R.dwg Thu Apr 26 09:05:02 2001

SINK COMBS DETHLEFS

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	9-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID/REFERENCE	2-9-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
ADDENDUM #1	3-28-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 99124

ROOF LEVEL PLAN

Drawn by:
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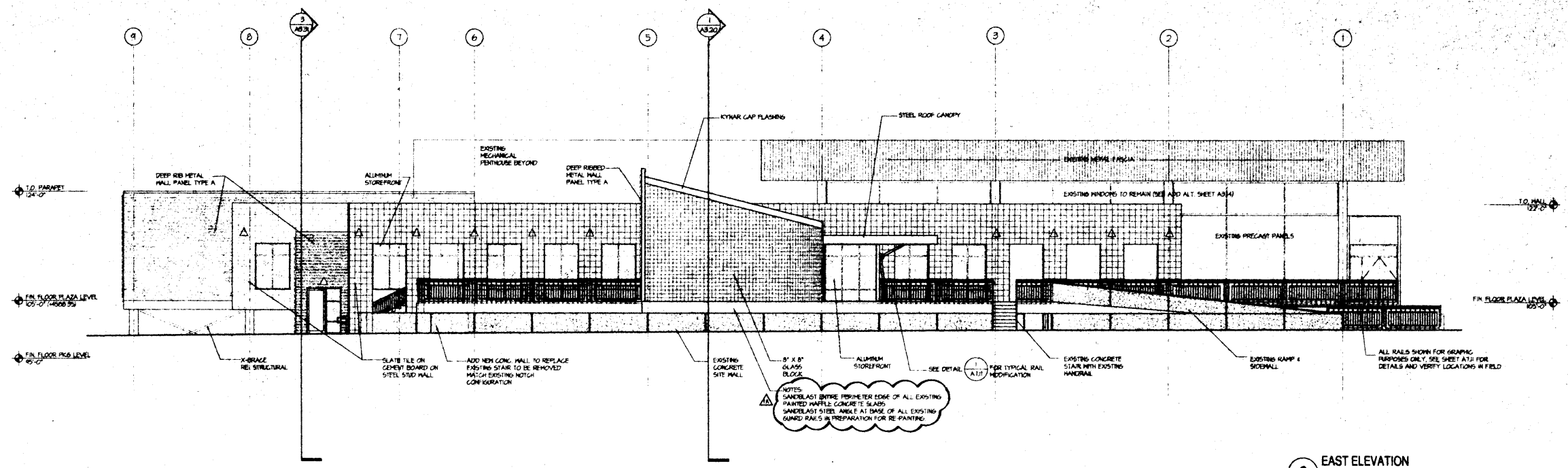
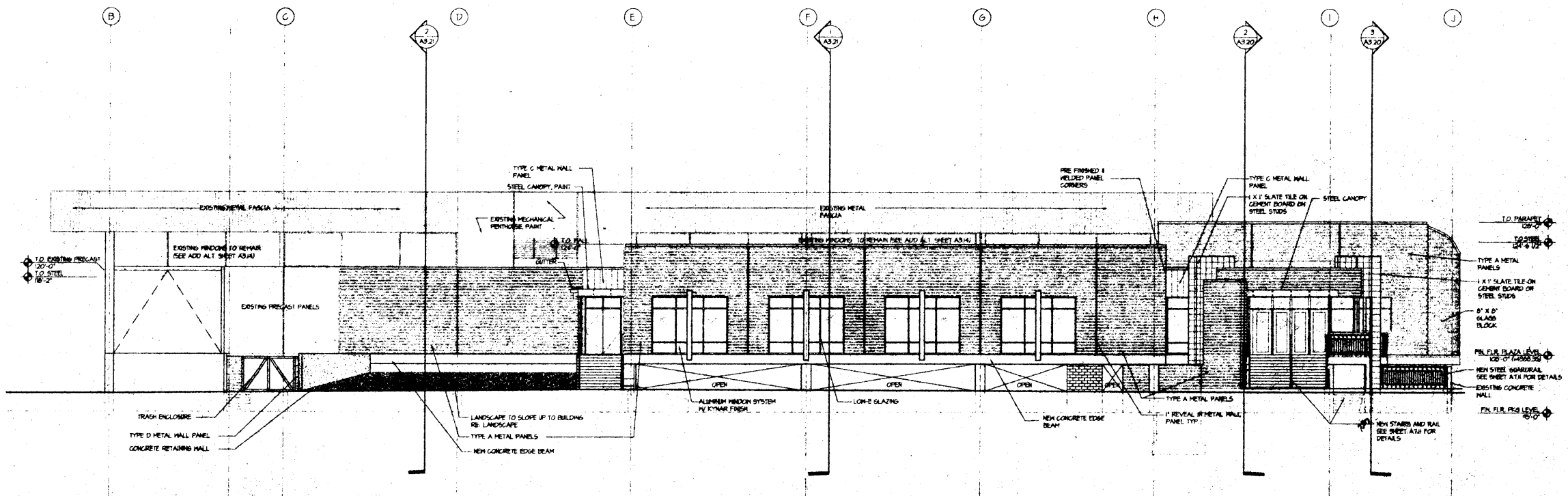
A2.30



2 EAST ELEVATION

SCALE: 1/8" = 1'-0"



1 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

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SINK COMBS DETHLEFS

Issues/Revisions	Date
SCHEMATIC DESIGN	9-28-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-28-01
PROGRESS SET	3-16-01
CONSTRUCTION DOCUMENTS	3-16-01
ADDENDUM #2	3-26-01
FINAL CONSTRUCTION SET	4-24-01

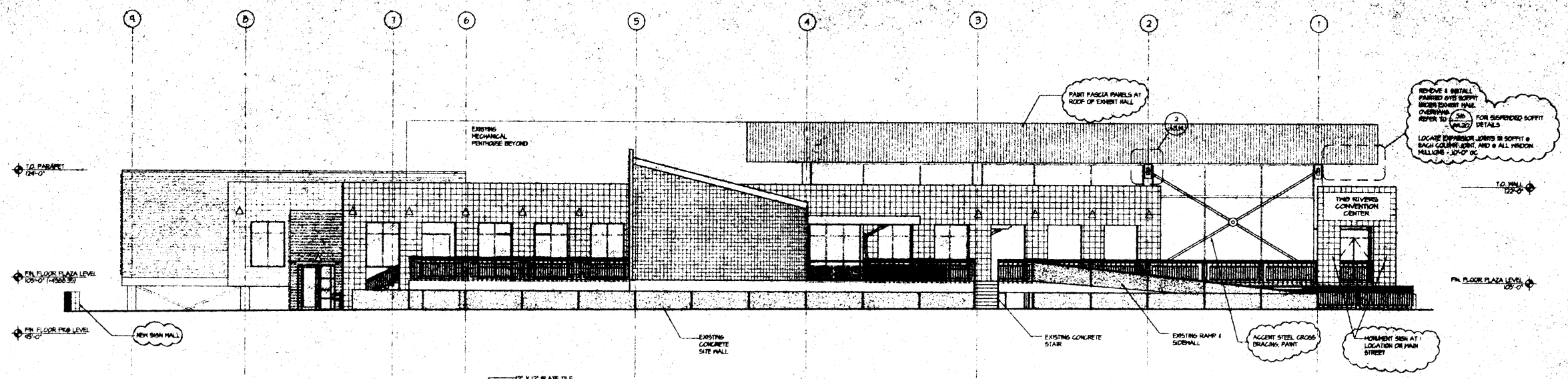
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

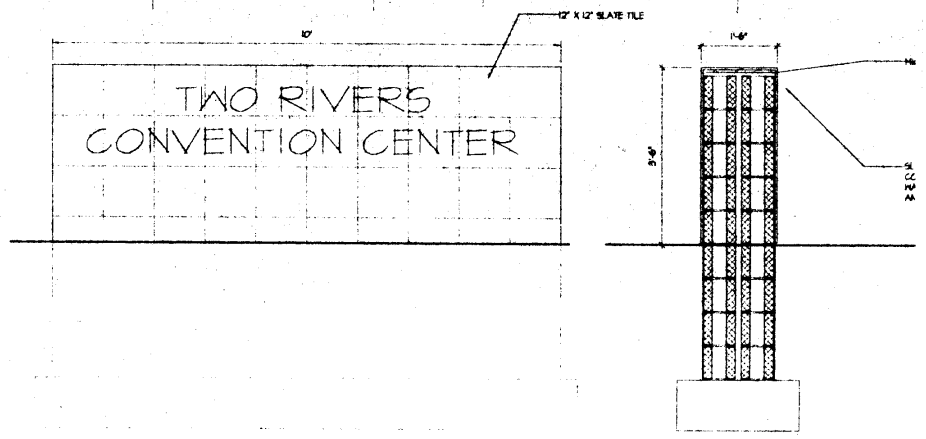
SCD Project No: 9924

ELEVATIONS

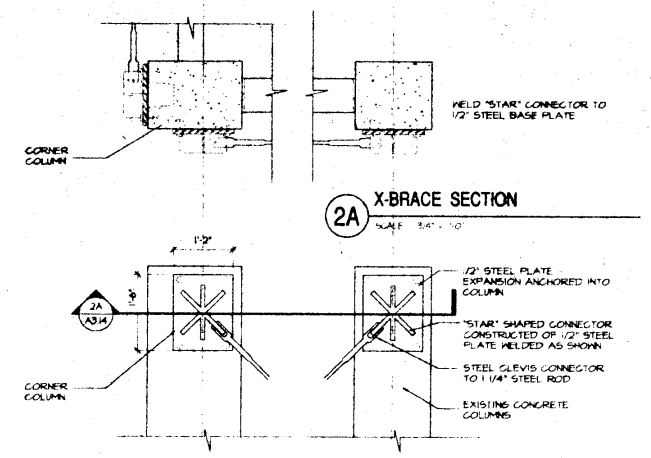
Drawn by:
Checked by:

A3.10





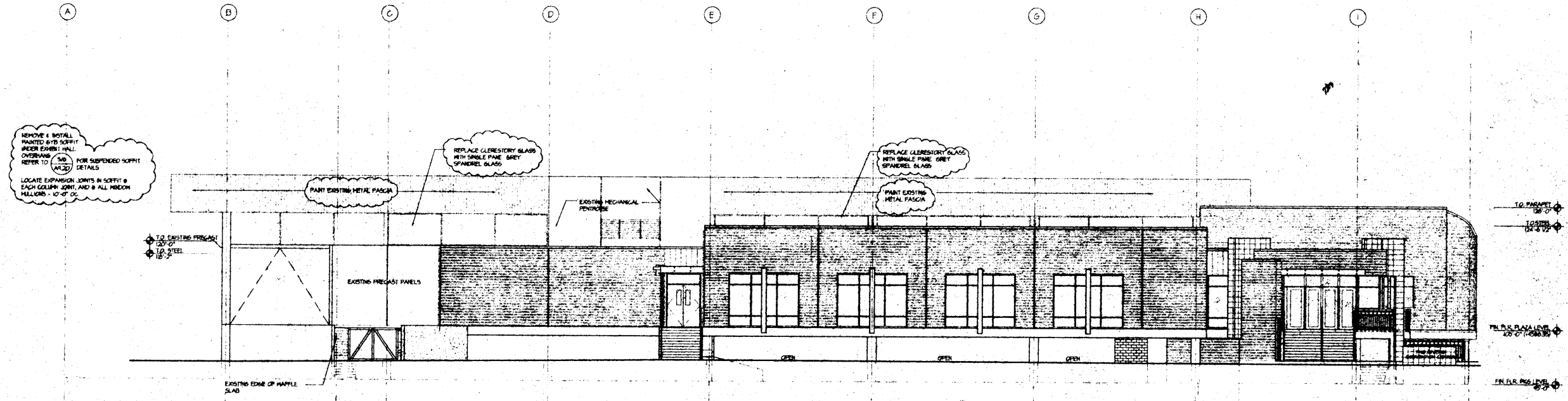
3 SIGN WALL ELEVATION & SECTION



2A X-BRACE SECTION

2 X-BRACE ELEVATION

4 ELEVATION ADD ALTERNATE (EAST)



GENERAL NOTES: ADD ALTERNATE #4
1) PAINT ALL EXISTING EXPOSED CONCRETE COLUMNS
2) PAINT ALL EXPOSED METAL & WOOD ON EXTERIOR OF BUILDING
U.N.O. INCLUDING BUT NOT LIMITED TO CONDUIT PIPING, GAS PIPING, FLASHING, HIGH PULEY & DUCTS, LINTELS, HOLLOW METAL FRAMING AND DOORS, STEEL, AND MECHANICAL EQUIPMENT

1 ELEVATION ADD ALTERNATE (SOUTH)

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SINK COMBS DETHLEFS

Issues/Revisions	Date
SCHEMATIC DESIGN	4-28-05
PROGRESS PRINT	5-26-05
DESIGN DEVELOPMENT	12-15-05
SITE/ BID REFERENCE	1-26-06
PROGRESS SET	2-15-06
CONSTRUCTION DOCUMENTS	3-8-06
FINAL CONSTRUCTION SET	4-28-06

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SGD Project No.: 9124

EXTERIOR ELEVATIONS ADD ALTERNATE

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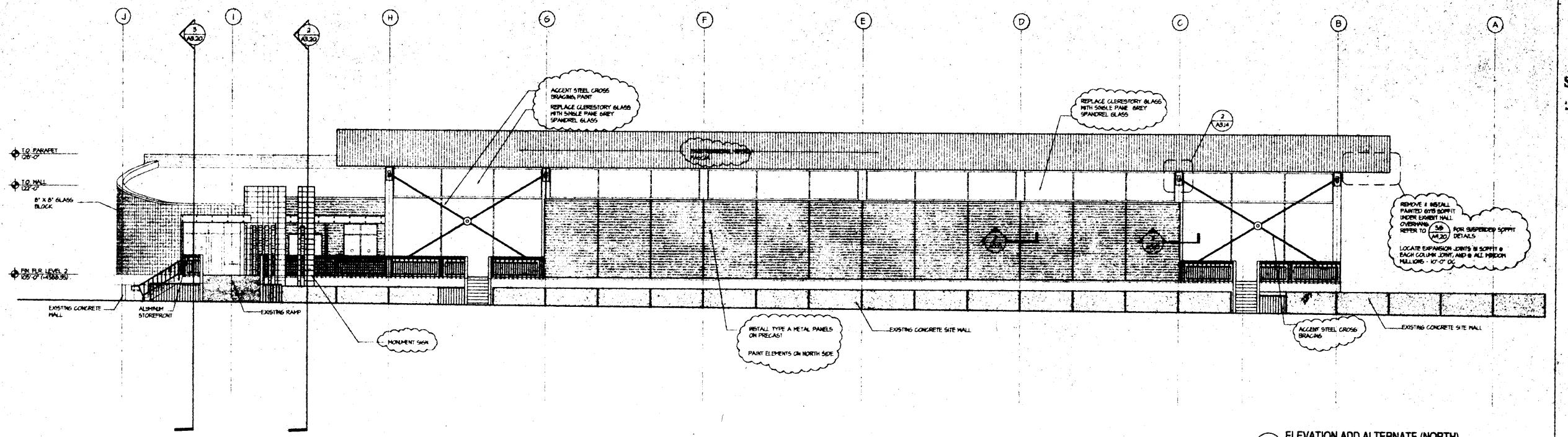
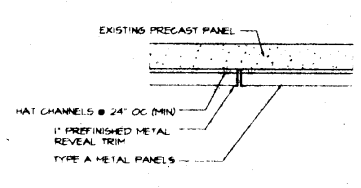
Checked by:

A3.14



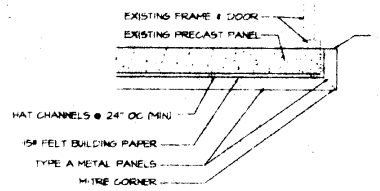
4 ELEVATION ADD ALTERNATE (NORTH)

SCALE: 1/8" = 1'-0"



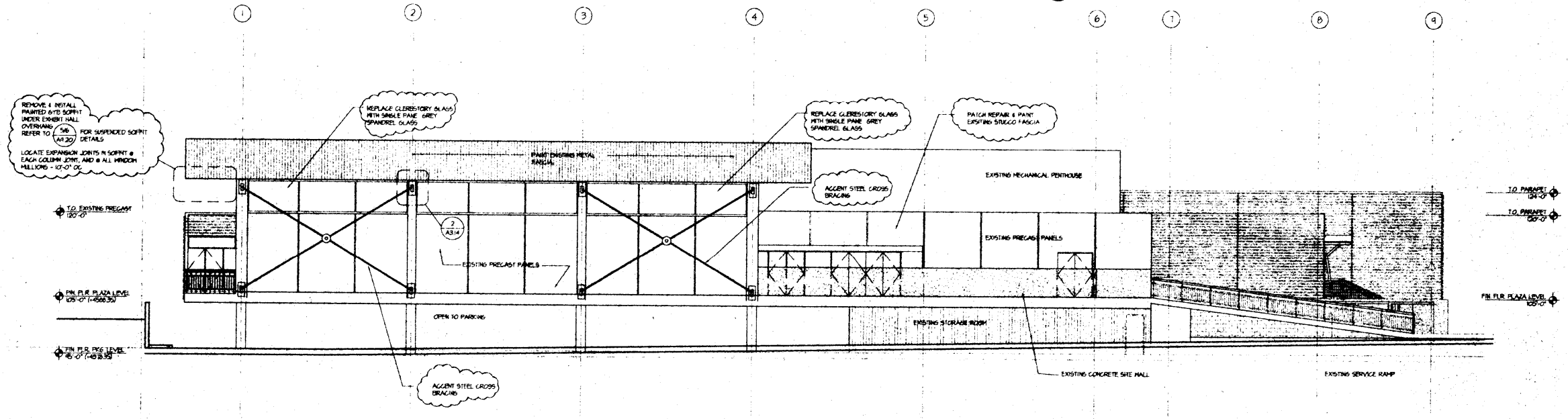
3 PANEL JOINT

SCALE: 3/4" = 1'-0"



2 CORNER DETAIL

SCALE: 3/4" = 1'-0"



GENERAL NOTES: ADD ALTERNATE #4
1) PAINT ALL EXISTING EXPOSED CONCRETE COLUMNS
2) PAINT ALL EXPOSED METAL & WOOD ON EXTERIOR OF BUILDING
U.N.O. INCLUDING BUT NOT LIMITED TO CONDUIT, PIPING, GAS PIPING, FLASHING, MISC. FLUES & DUCTS, UNITS, HOLLOW METAL FRAMING AND DOORS, STEEL AND MECHANICAL EQUIPMENT

1 ELEVATION ADD ALTERNATE (WEST)

SCALE: 1/8" = 1'-0"

SINK COMBS DETHLEFS

A Professional Corporation
Architects
Denver, Colorado

Issues/Revisions:	Date
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-19-00
SITE/ GRID REFERENCE	1-26-01
PROGRESS SET	2-19-01
CONSTRUCTION DRAWINGS	3-16-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

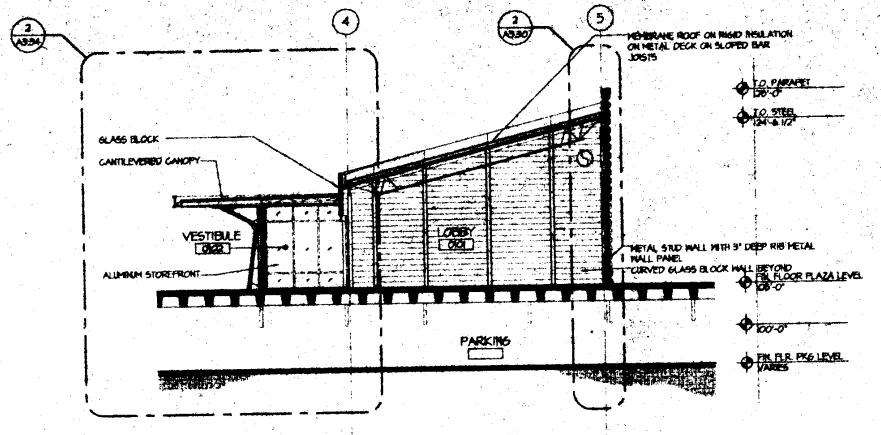
SCD Project No.: 9924

EXTERIOR ELEVATIONS ADD ALTERNATE

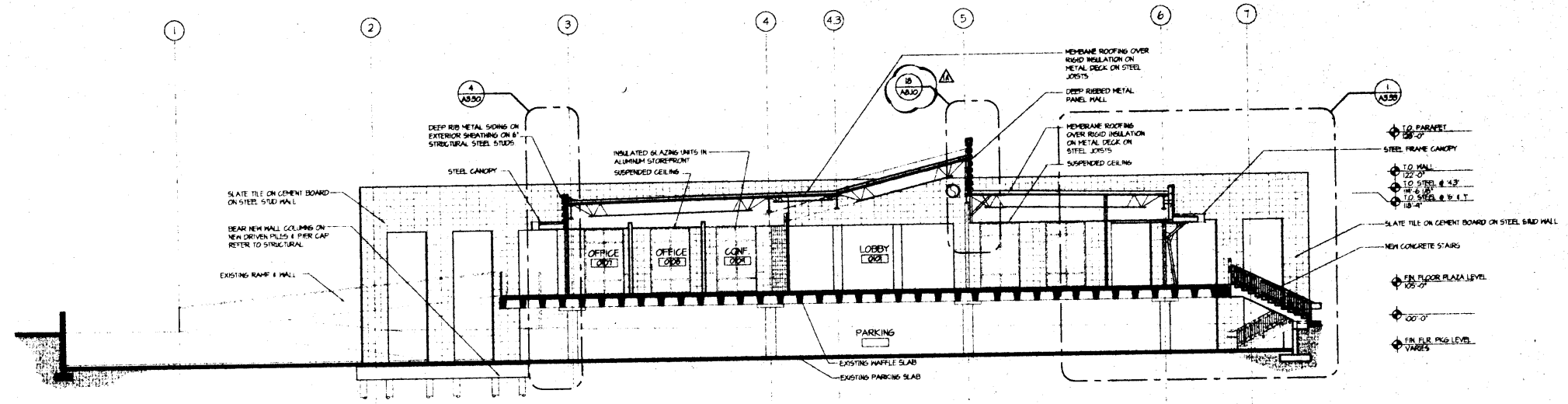
Drawn by:
Checked by:

A3.15

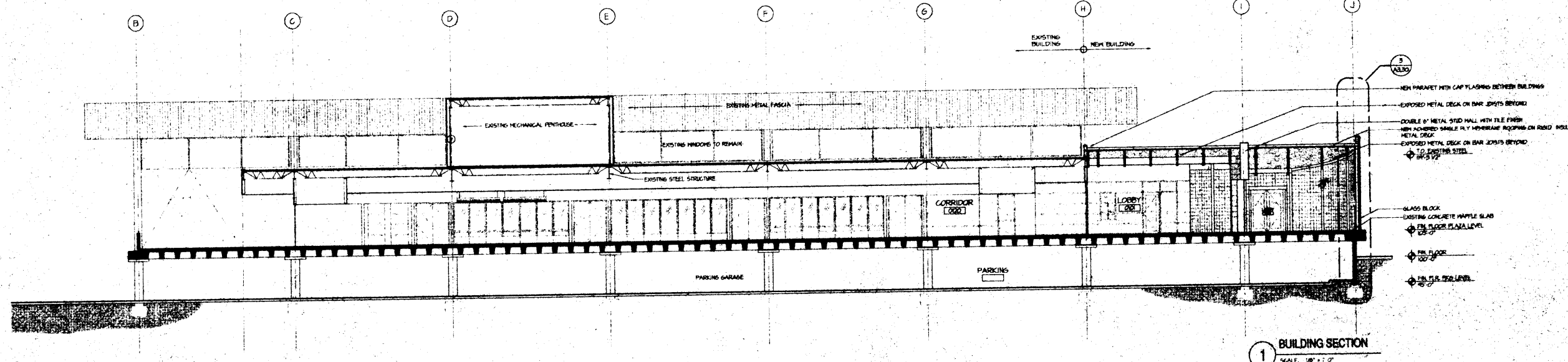
P:\SINK\dwg\9924ab-15.dwg Thu, Apr 26 08:17:41 2001



3 BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



1 BUILDING SECTION
SCALE: 1/8" = 1'-0"

SINK COMBS DETHLEFS

Issues/Revisions	Date
SCHEMATIC DESIGN	9-29-00
PROGRESS PRINT	10-30-00
DESIGN DEVELOPMENT	12-8-00
STEEL BID REFERENCE	2-9-01
PROGRESS SET	3-16-01
CONSTRUCTION DOCUMENTS	4-6-01
ADDENDUM #2	5-24-01
FINAL CONSTRUCTION SET	6-18-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

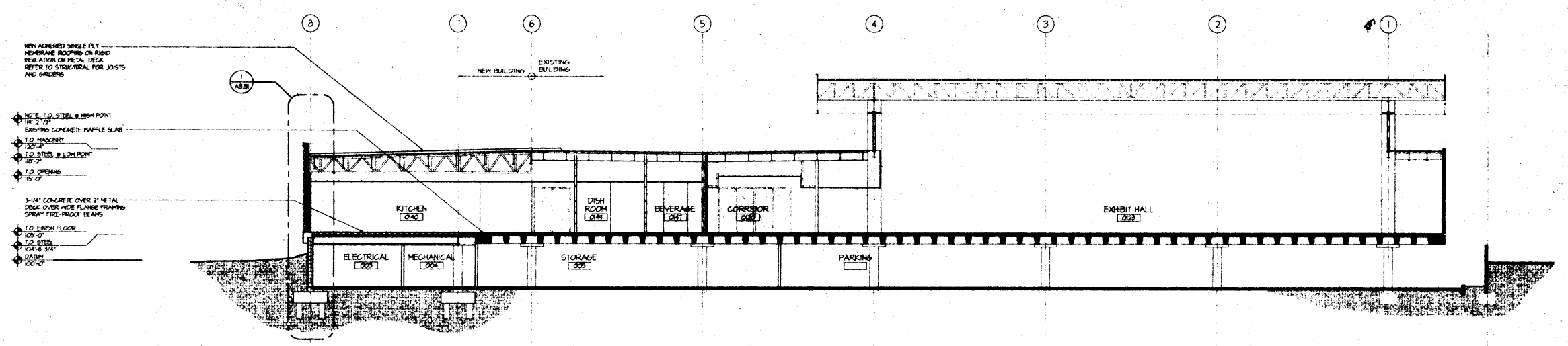
SCD Project No.: 9824

BUILDING SECTIONS

Drawn by:
Checked by:

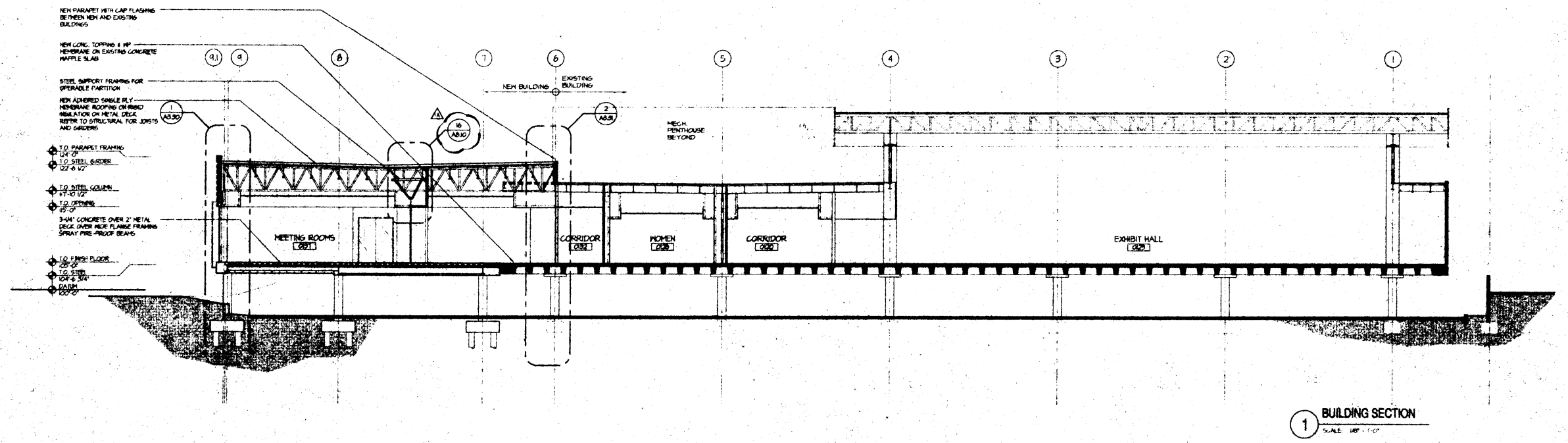
A3.20

P:\9800\Revit\9824-20.dwg Thu, Apr 05 09:29:17 2001



2 BUILDING SECTION

SCALE: 1/8" = 1'-0"



1 BUILDING SECTION

SCALE: 1/8" = 1'-0"

P:\PROJECTS\9824-21.dwg Thu Apr 28 08:57:57 2011

SINK COMBS DETHLEFS

ISSUANCE/REVISIONS	DATE
SCHEMATIC DESIGN	9-08-09
PROGRESS PRINT	11-30-09
DESIGN DEVELOPMENT	12-15-09
STEEL BID REFERENCE	1-29-10
PROGRESS SET	2-18-10
CONSTRUCTION DOCUMENTS	3-4-10
ADDENDUM 10	3-28-11
FINAL CONSTRUCTION SET	4-28-11

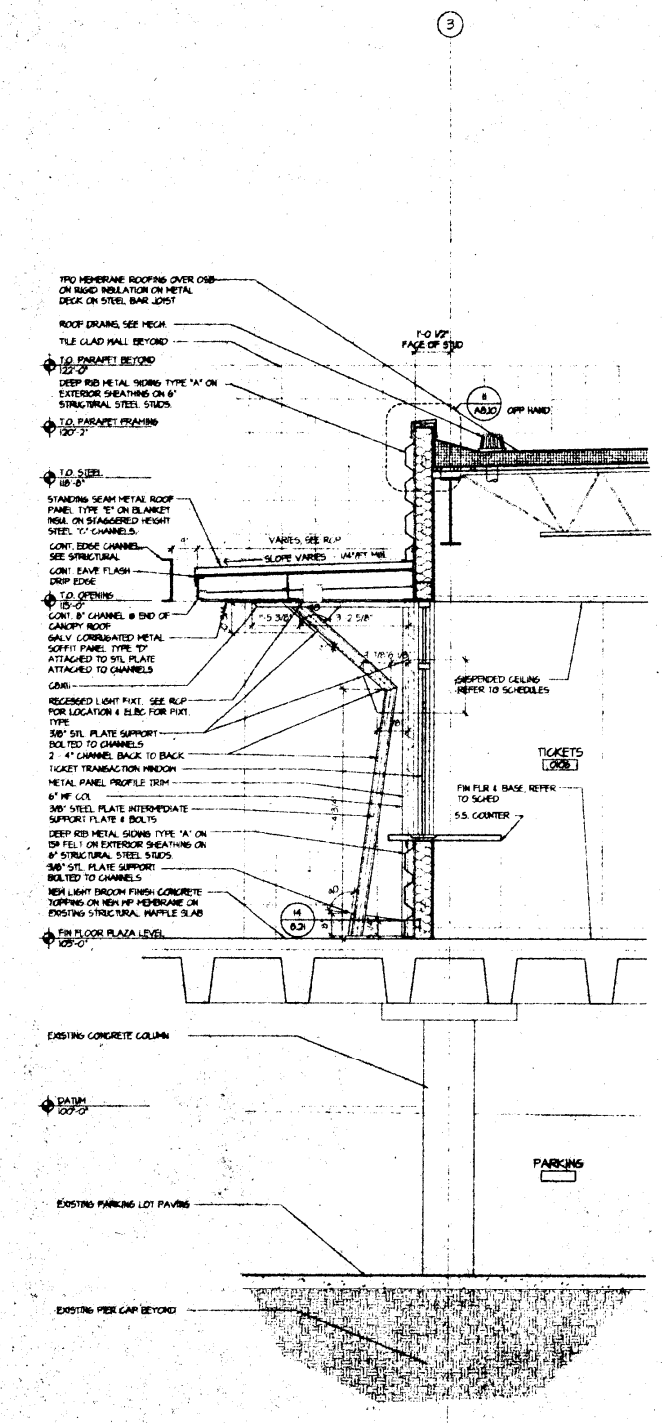
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

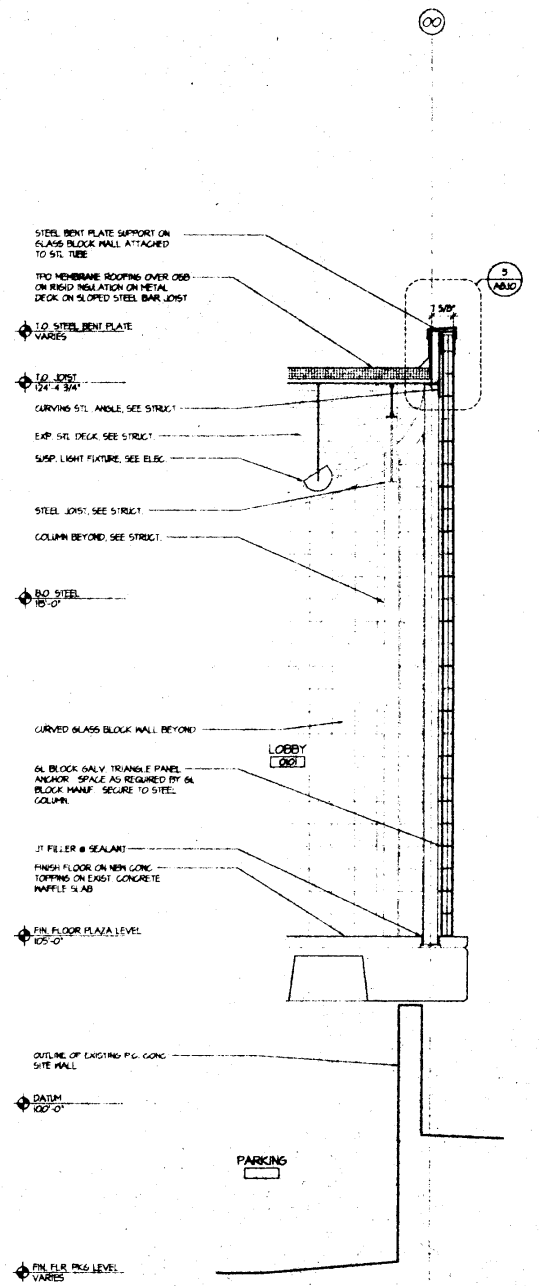
SCD Project No. 9824

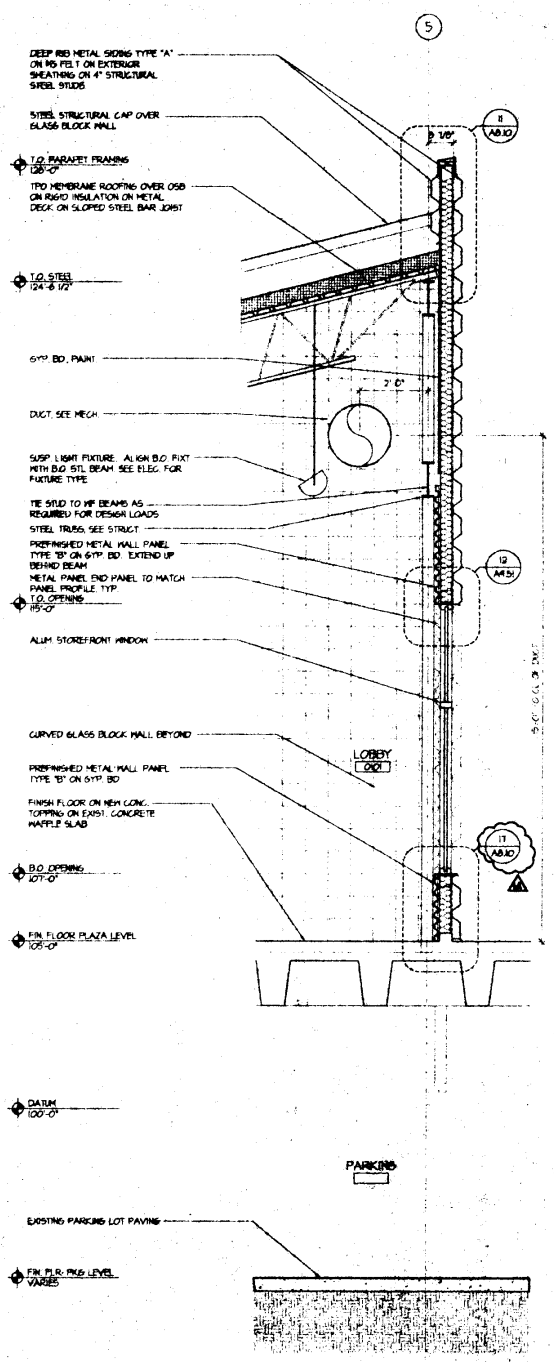
BUILDING SECTIONS

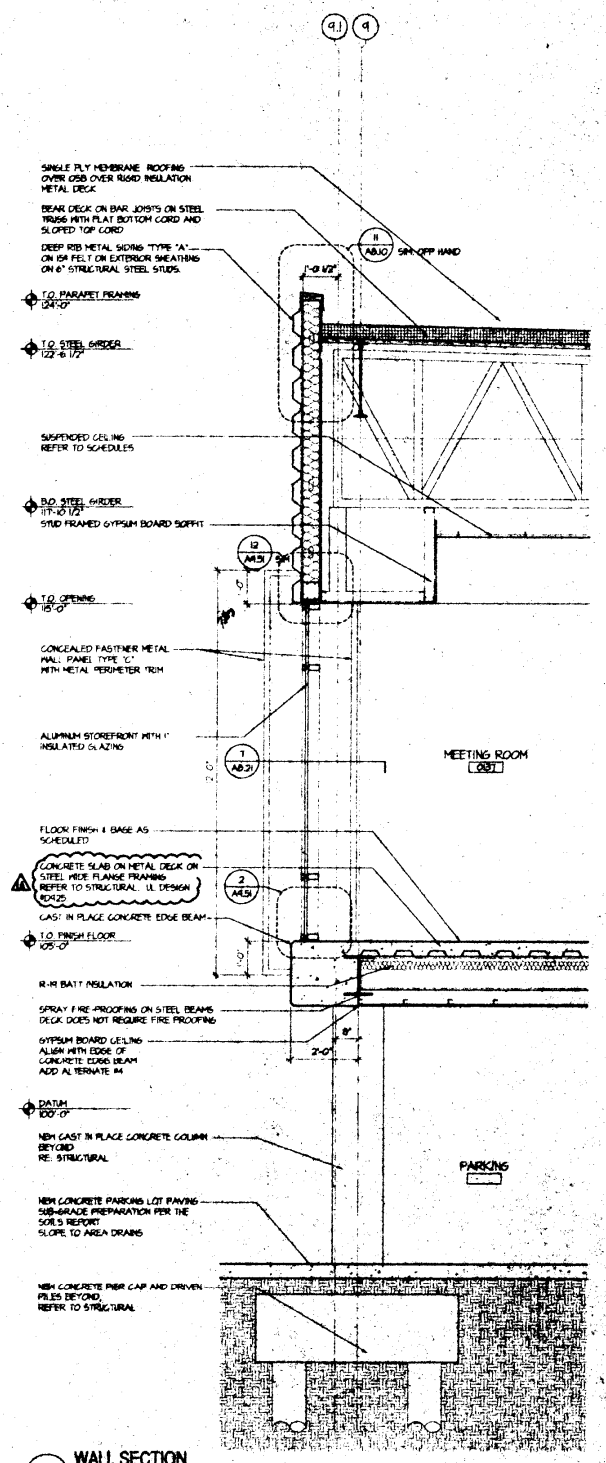
Drawn by:
Checked by:

A3.21









SINK COMBS DETHLEFS

A Professional Corporation 1400 Glenarm Place, Suite 300, Denver, Colorado 80202 303 534-1160 Fax 303 534-1422

Issues/Revisions	Date
SCHEMATIC DESIGN	9-30-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
ADDENDUM #2	3-28-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

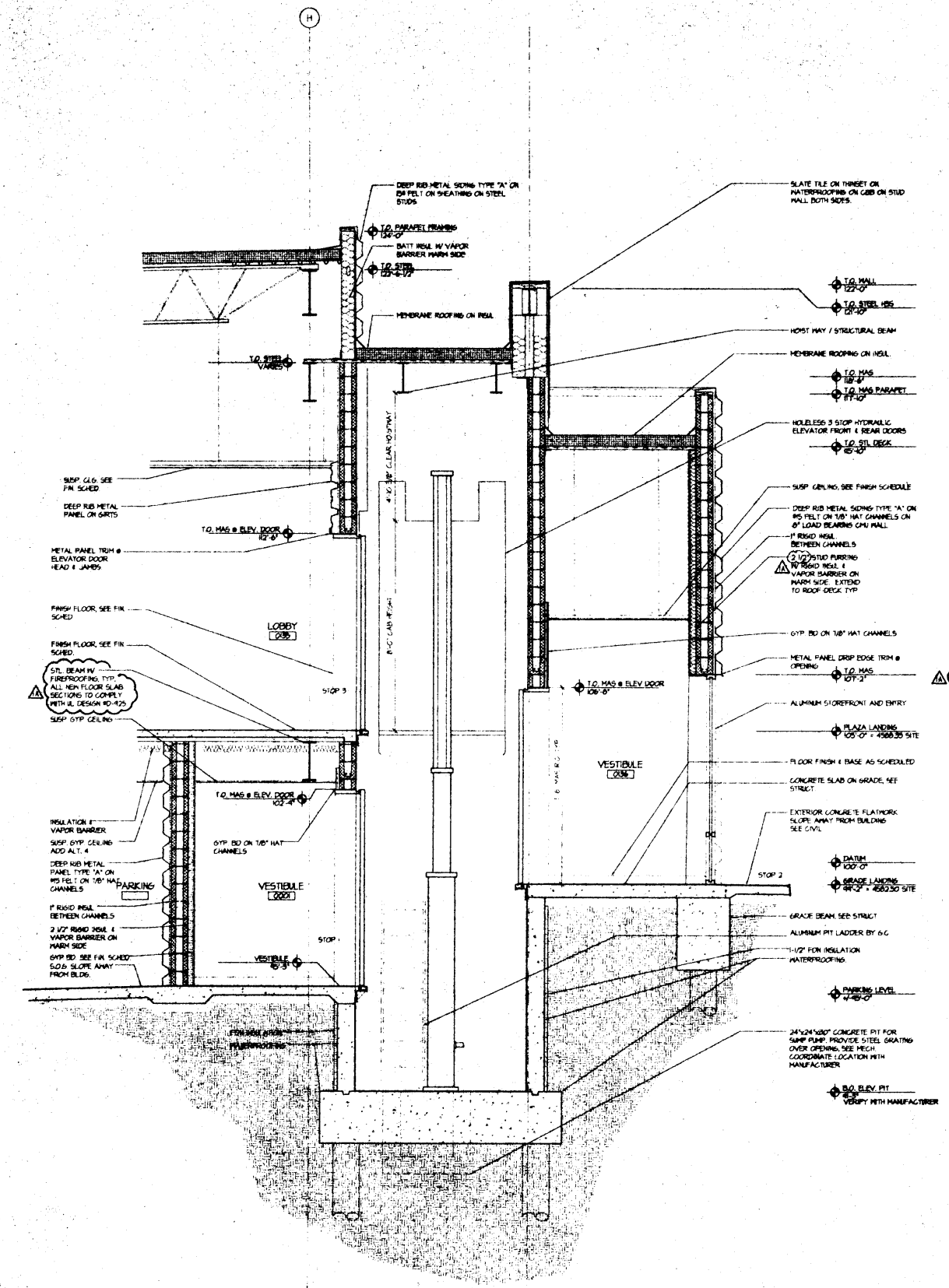
SCD Project No.: 9924

WALL SECTIONS

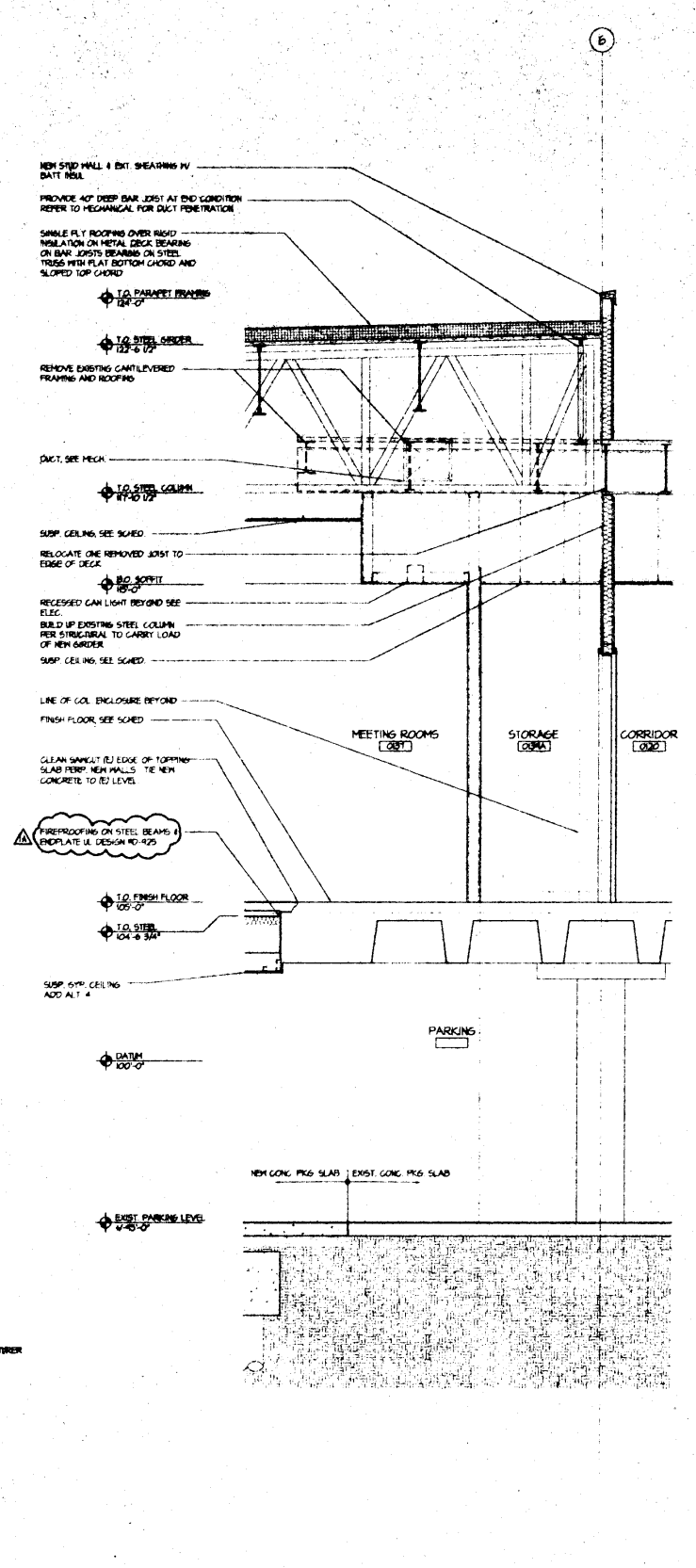
Drawn by:
Checked by:

A3.30

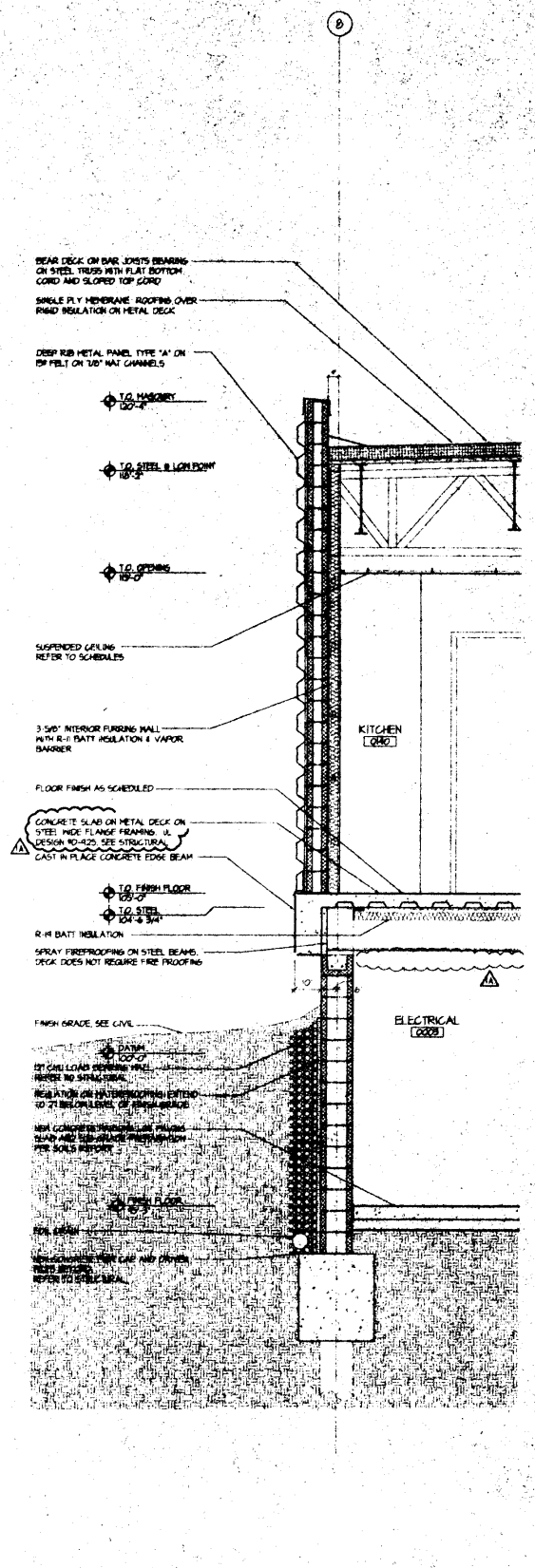
P:\9924\dwg\9924A3-30.dwg Thu, Apr 26 08:21:30 2001



3 WALL SECTION @ ELEVATOR
SCALE: 1/2" = 1'-0"



2 WALL SECTION
SCALE: 1/2" = 1'-0"



1 WALL SECTION
SCALE: 1/2" = 1'-0"

SINK COBBS DIETELICH

ISSUED/REVISIONS	DATE
SCHEMATIC DESIGN	4-28-00
PROGRESS PRINT	5-30-00
DESIGN DEVELOPMENT	07-7-00
STEEL BID REFERENCE	1-28-01
PROGRESS SET	2-28-01
CONSTRUCTION DOCUMENTS	3-16-01
ADDENDUM #2	3-28-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

WALL SECTIONS

Drawn by:
Checked by:

A3.31

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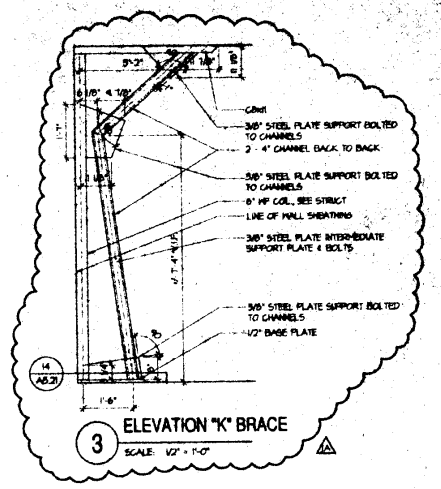
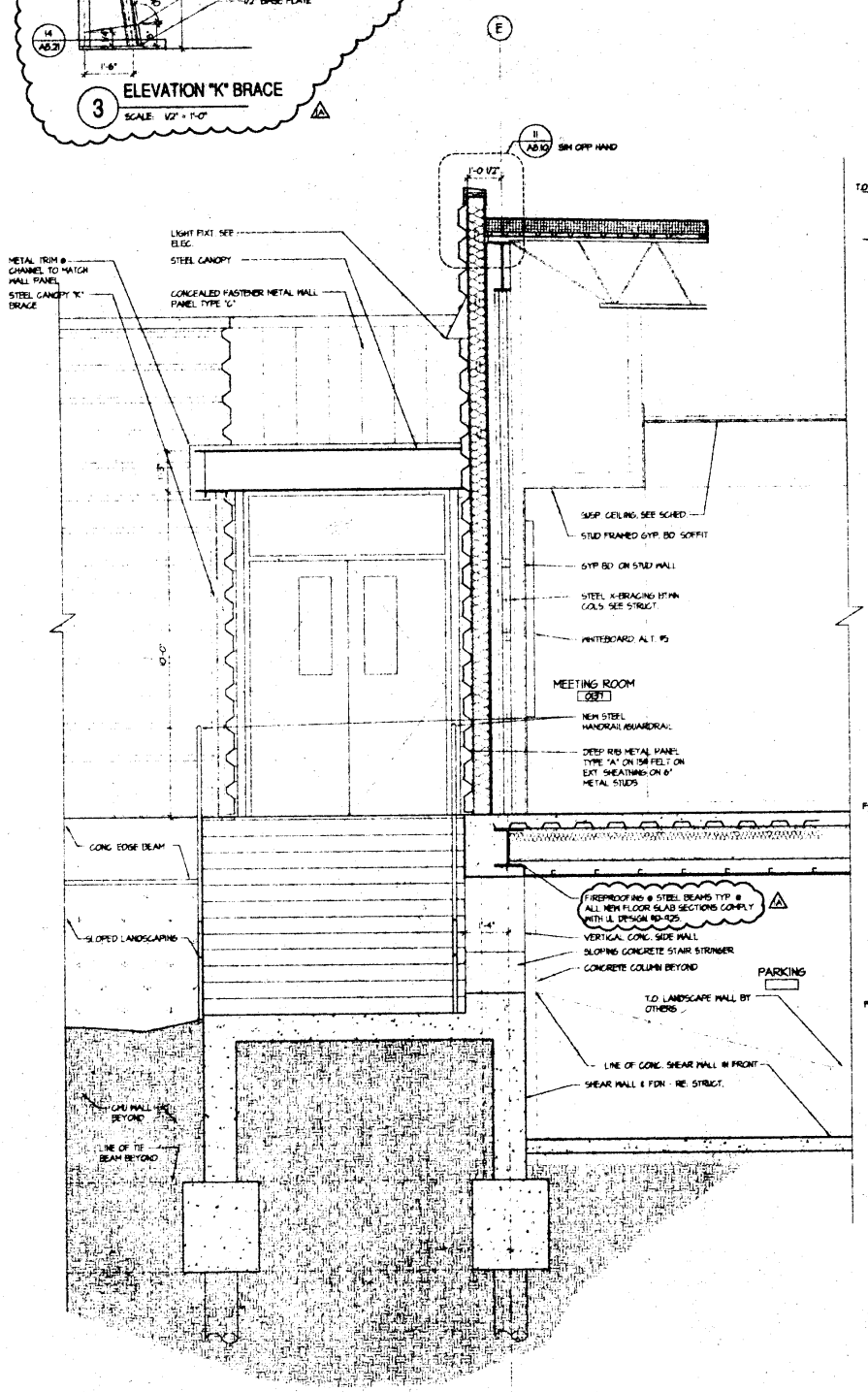
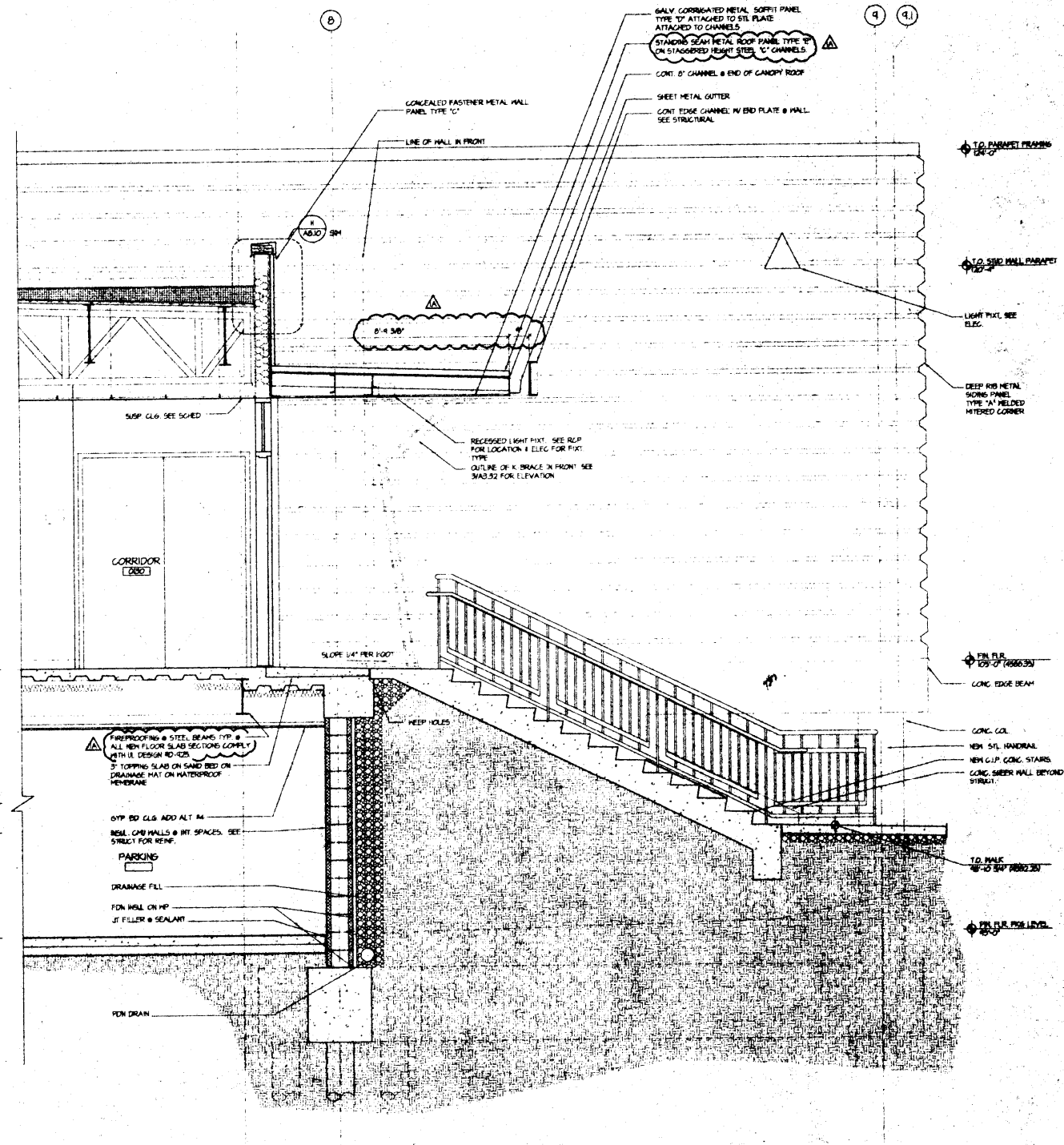


3 **ELEVATION "K" BRACE**
SCALE: 1/2" = 1'-0"



2 **WALL / STAIR SECTION**
SCALE: 1/2" = 1'-0"



1 **WALL / STAIR SECTION**
SCALE: 1/2" = 1'-0"

SINK, COMBS DETHLEFS
A Professional Corporation 1200 Auraria Street, Suite 200, Denver, Colorado 80204
Architecture 303.825.1200 FAX 303.825.1207

Issues/Revisions:	Date:
SCHEMATIC DESIGN	4-06-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	8-15-01
ADDENDUM #2	9-28-01
FINAL CONSTRUCTION SET	4-26-02

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

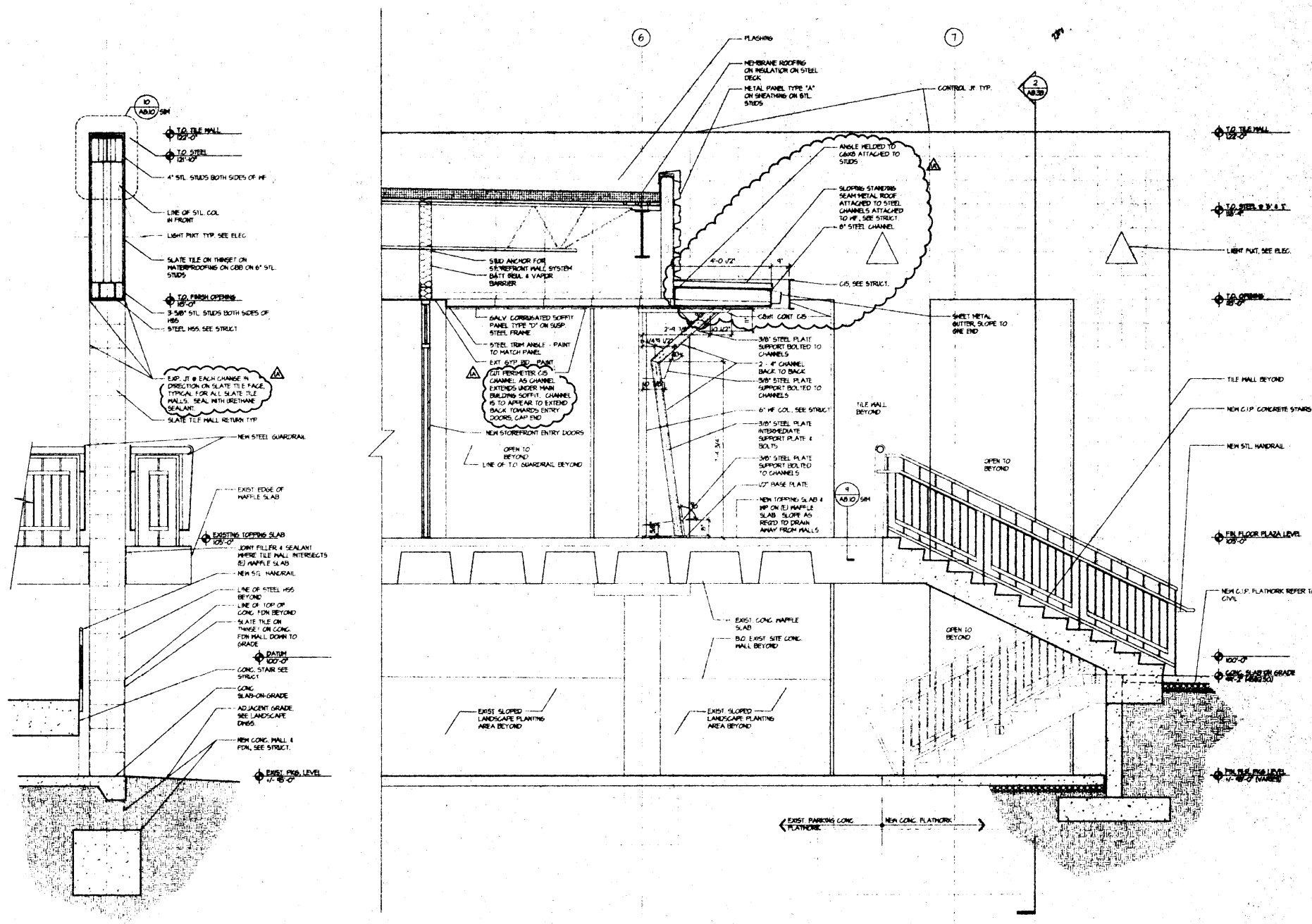
SCD Project No.: 9924

WALL SECTIONS/ STAIR SECTIONS

Drawn by:
Checked by:

A3.32

P:\2000\2000924\CAD\A3-32.dwg THU, JUL 25, 2002 22:22:22



1 WALL/STAIR SECTION
SCALE: 1/2" = 1'-0"

2 WALL SECTION
SCALE: 1/2" = 1'-0"

SINK COMBS DETHLEFS
A Professional Corporation for Architecture
1200 Bannock Street, Suite 200, Denver, Colorado 80204
303 292 9339
FAX 292 9625

Issues/Revisions	Date
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STATE ESD REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-30-01
1 ADDENDUM #2	5-28-01
FINAL CONSTRUCTION SET	6-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

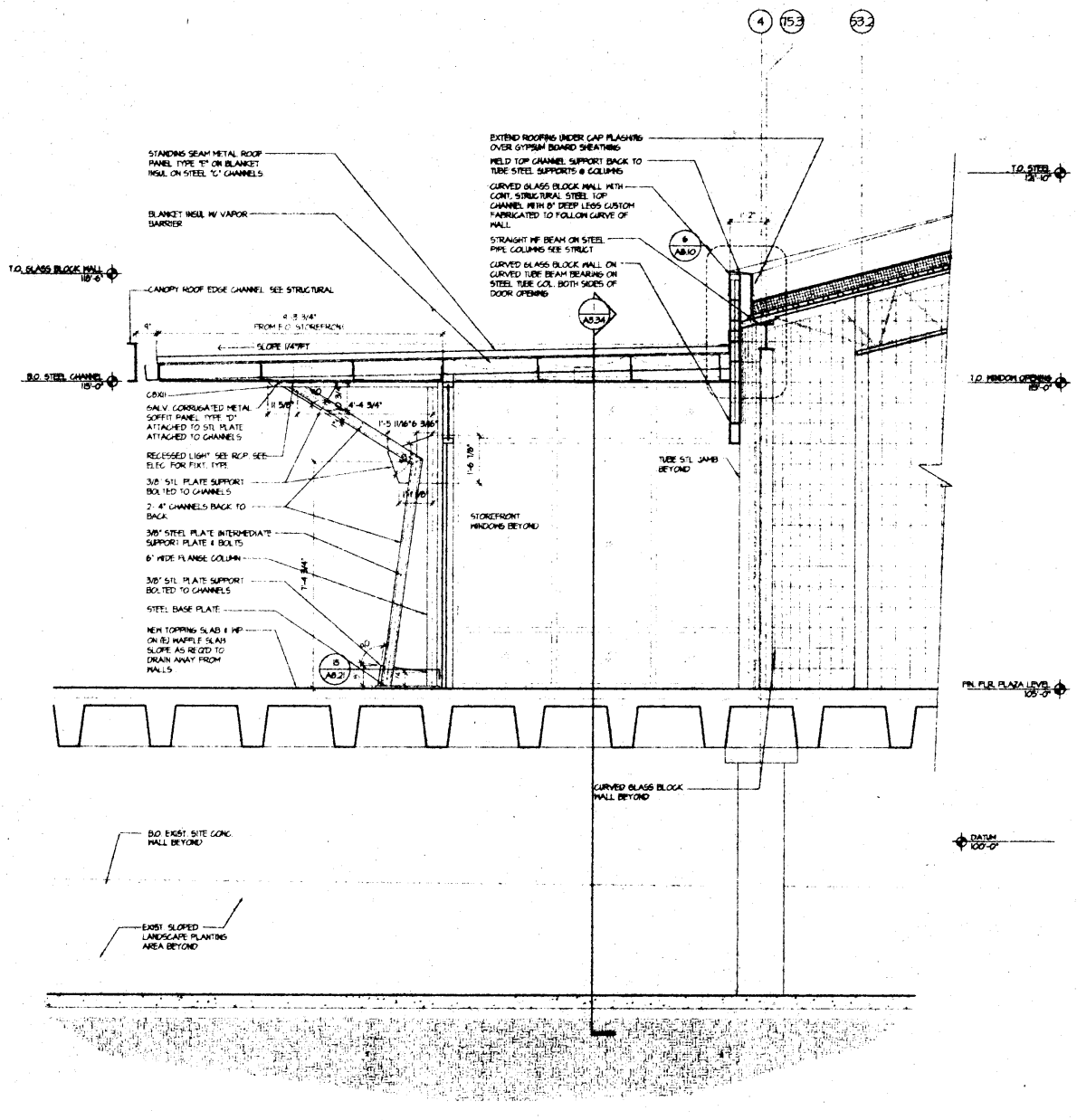
SCD Project No.: 9924

WALL SECTIONS/ STAIR SECTIONS

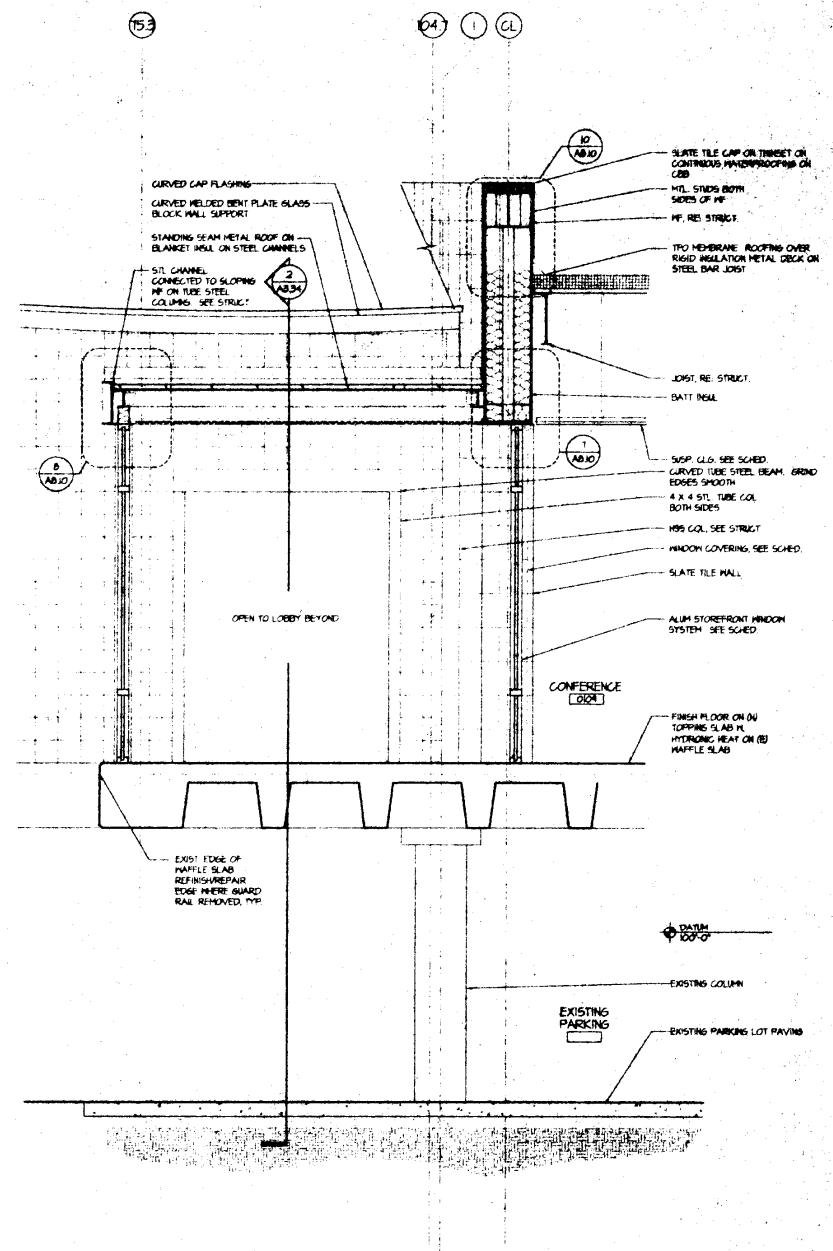
Drawn by:
Checked by:

A3.33

P:\9924\dwg\SD\A3-33.dwg Thu Jul 26 10:12:48 2001



2 WALL SECTION @ VESTIBULE
SCALE: 1/2" = 1'-0"



1 WALL SECTION
SCALE: 1/2" = 1'-0"

P:\1800\Dwg\1824S-3A.dwg Thu Apr 26 08:23:03 2001

SINK COMBS DETHLEFS

Architectural Corporation 1200 Main Street, Suite 200 Kansas City, Missouri 64105 816.283.1181 FAX 816.283.1183

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	4-28-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
FINAL CONSTRUCTION SET	4-26-01

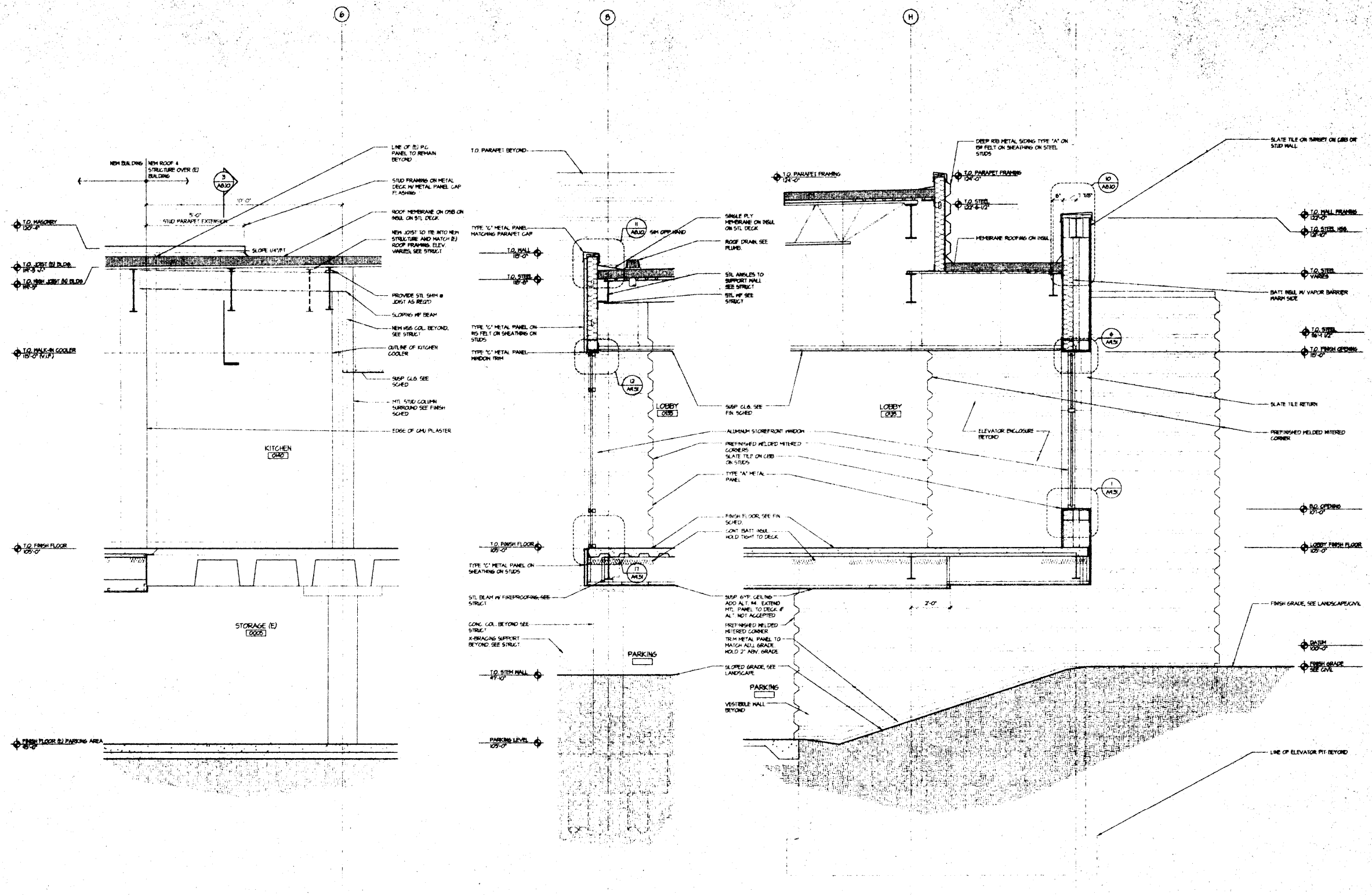
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

WALL SECTIONS

Drawn by:
Checked by:

A3.34



3 SECTION @ KITCHEN EXISTING ROOF
SCALE: 1/2" = 1'-0"

2 WALL SECTION
SCALE: 1/2" = 1'-0"

1 WALL SECTION
SCALE: 1/2" = 1'-0"

P:\1600\dwg\Sheets\A3.35.dwg Thu Apr 26 08:27:27 2001

SINK COMBS DETHLEFS

Issues/Revisions	Date
SCHEMATIC DESIGN	4-28-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-9-01
CONSTRUCTION DOCUMENTS	3-15-01
FINAL CONSTRUCTION SET	4-26-01

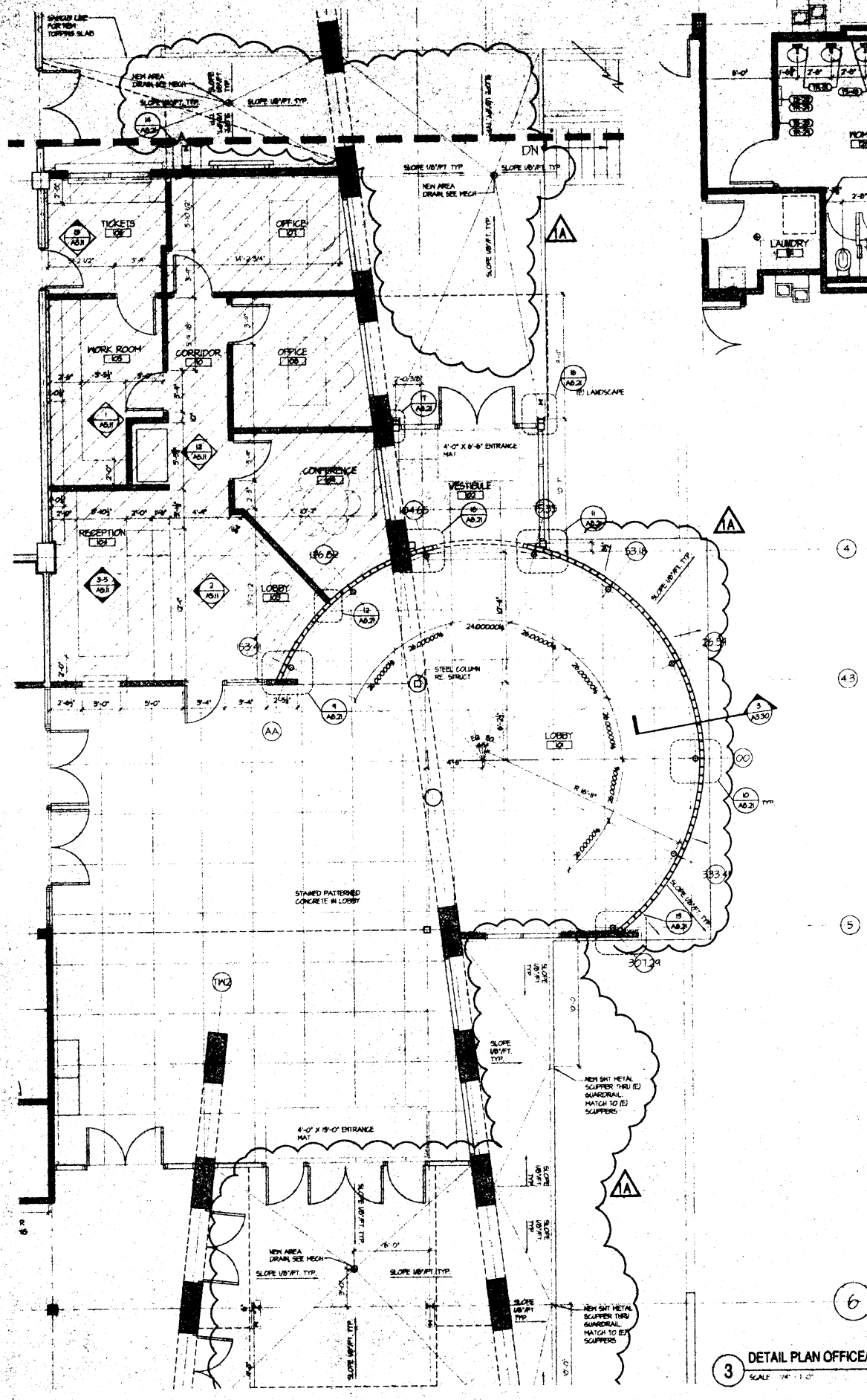
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 1600

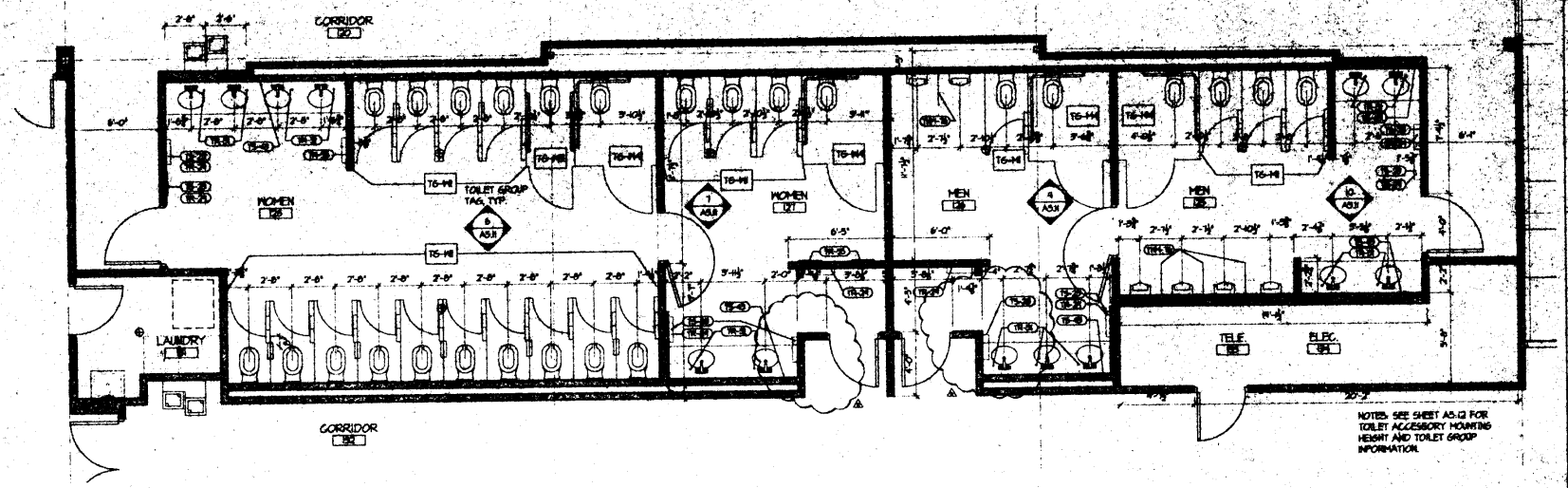
WALL SECTIONS

Drawn by:
Checked by:

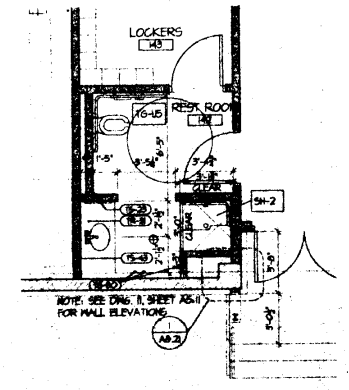
A3.35



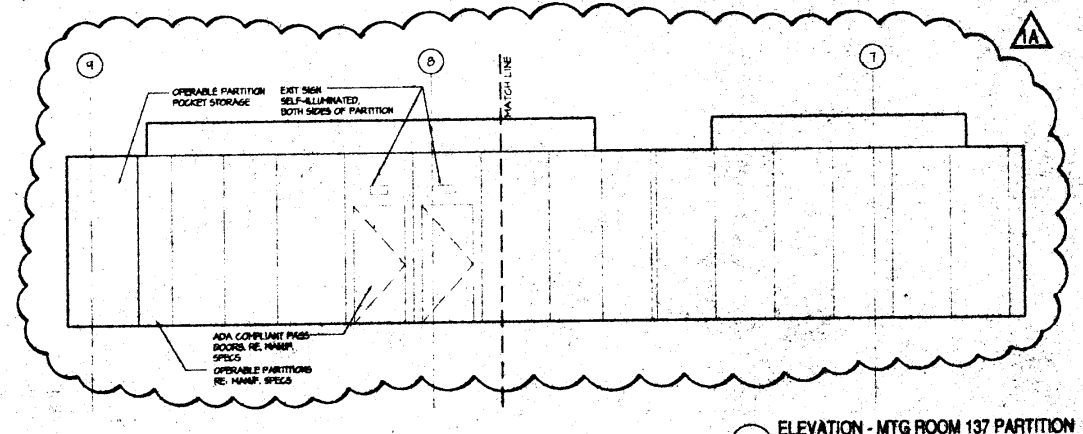
3 DETAIL PLAN OFFICE/ LOBBY
SCALE: 1/4" = 1'-0"



4 DETAIL PLAN - REST ROOMS
SCALE: 1/4" = 1'-0"



2 DETAIL PLAN - REST ROOM 142
SCALE: 1/4" = 1'-0"



1 ELEVATION - MTG ROOM 137 PARTITION
SCALE: 1/4" = 1'-0"

SINK COMBS DETHLEFS

ISSUES/REVISIONS:	Date:
SCHEMATIC DESIGN	4-26-00
PROGRESS PRINT	10-00
DESIGN DEVELOPMENT	12-15-00
SHEET END REFERENCE	3-9-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
1A ADDENDUM #2	5-29-01
1A FILL-IN #2	6-11-01
FINAL CONSTRUCTION SET	6-28-01

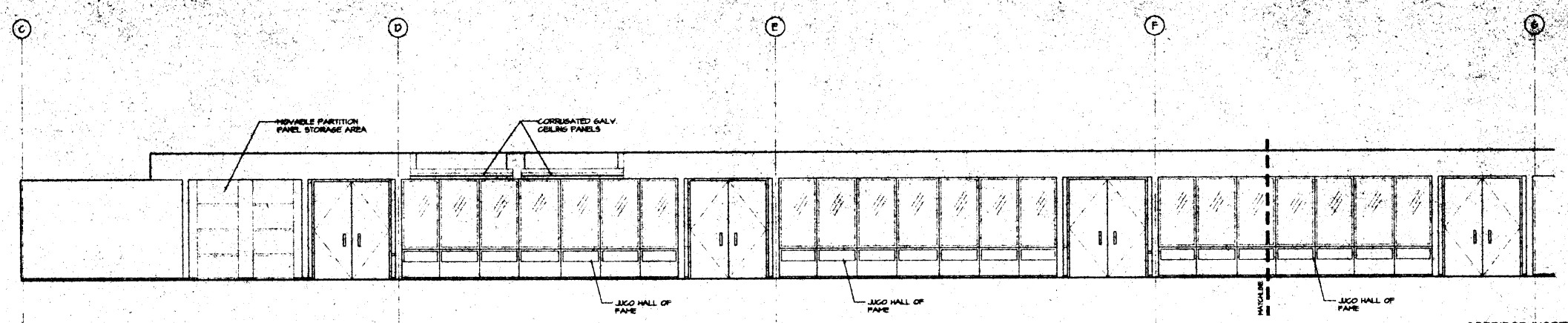
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

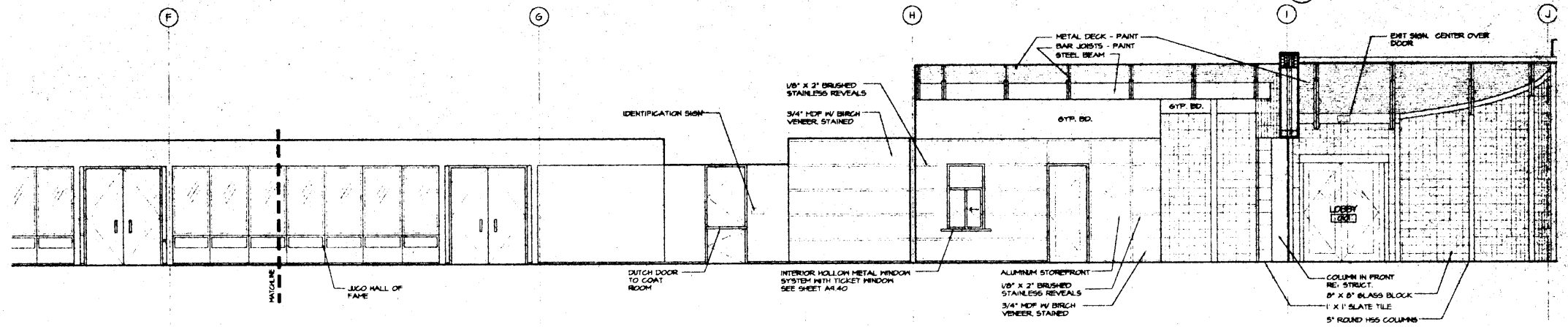
DETAIL FLOOR PLANS

Drawn by:
Checked by:

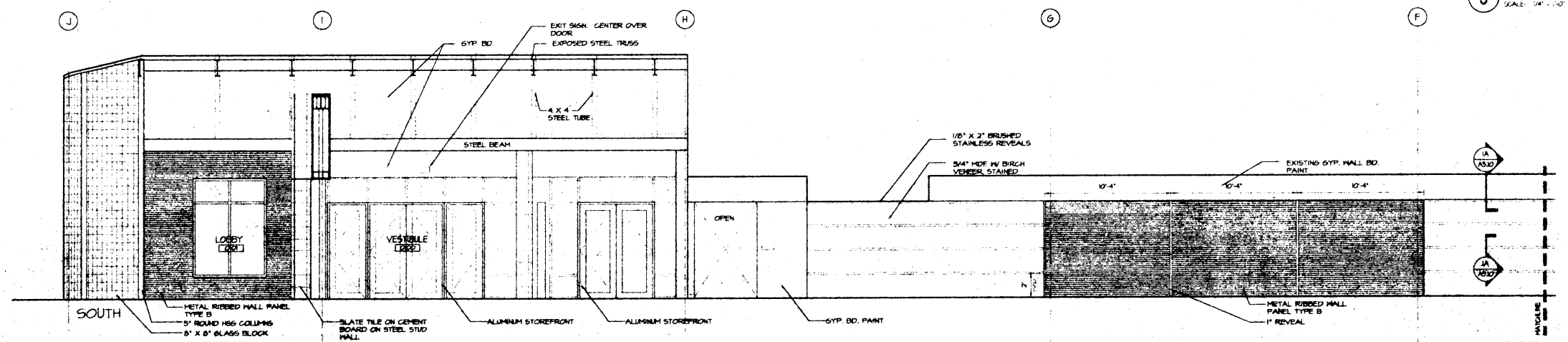
A4.10



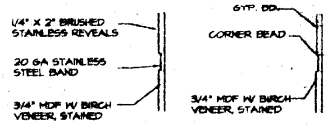
4 CORRIDOR (NORTH WALL)
SCALE: 1/4" = 1'-0"



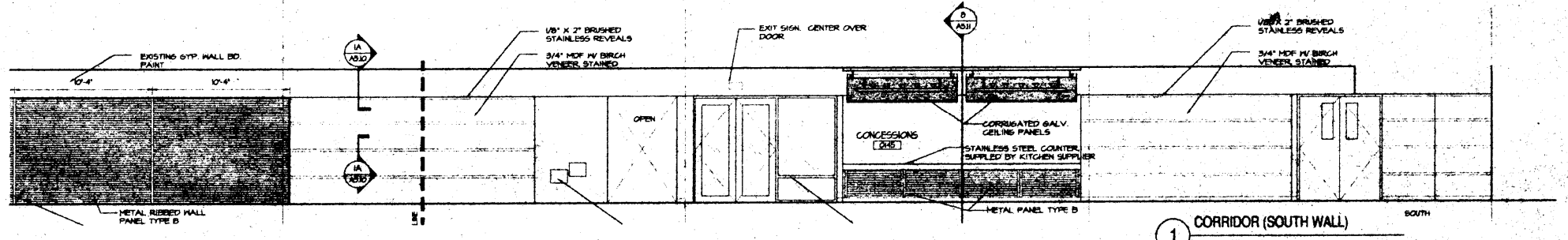
3 CORRIDOR (NORTH WALL)
SCALE: 1/4" = 1'-0"



2 CORRIDOR (SOUTH WALL)
SCALE: 1/4" = 1'-0"



1A CORRIDOR (SOUTH WALL)
SCALE: 1/4" = 1'-0"



1 CORRIDOR (SOUTH WALL)
SCALE: 1/4" = 1'-0"

SINK COMBS DETHLEFSEN
A Professional Corporation 600 Grant Street Suite 300 Denver, Colorado 80203 303 861 2003

Issues/Revisions	Date
PRELIMINARY DESIGN	9-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-21-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

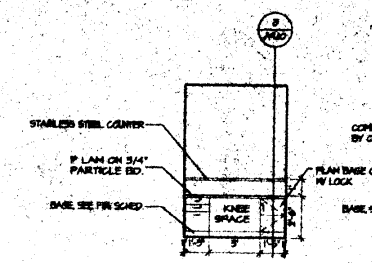
SCD Project No.: 99126

INTERIOR ELEVATIONS

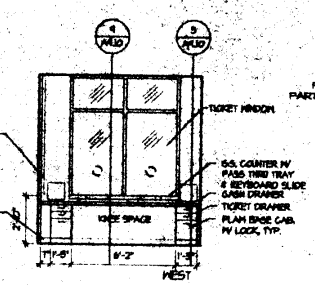
Drawn by:
Checked by:

A5.10

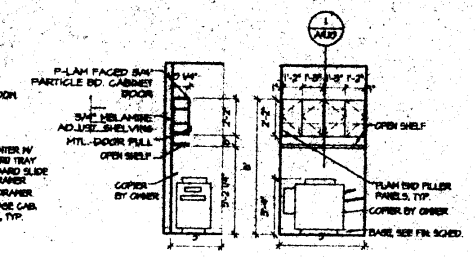
P:\99126\dwg\SD\A5-10.dwg Thu, Apr 26, 01 08:26:43 2001



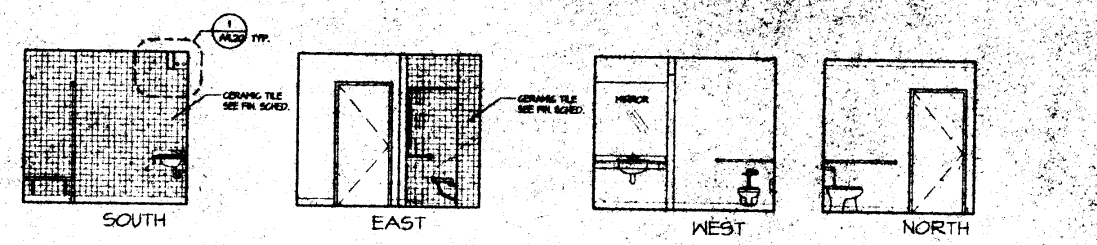
14 KITCHEN OFFICE 144
SCALE: 1/4" = 1'-0"



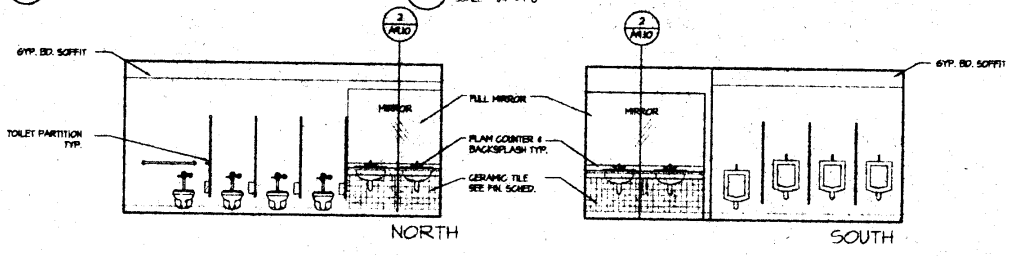
13 TICKETS 106
SCALE: 1/4" = 1'-0"

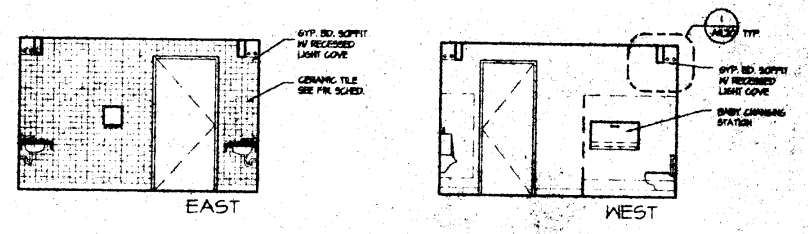


12 COPIER
SCALE: 1/4" = 1'-0"

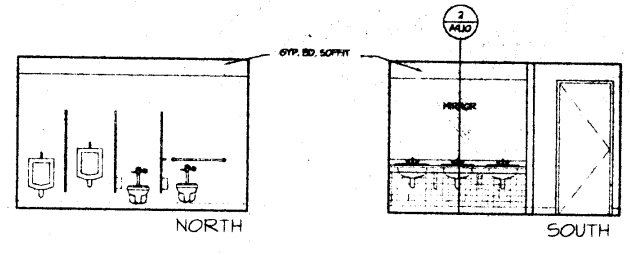


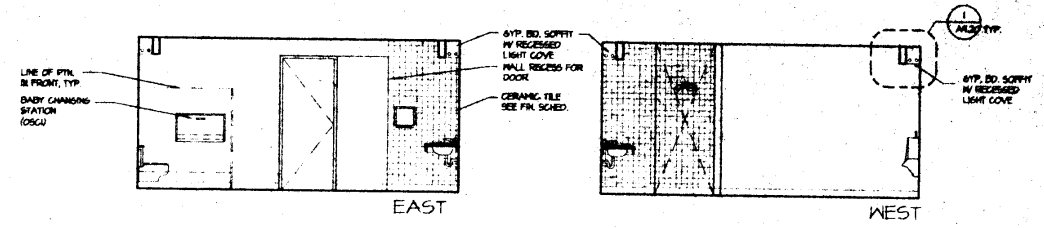
11 RESTROOM 142
SCALE: 1/4" = 1'-0"



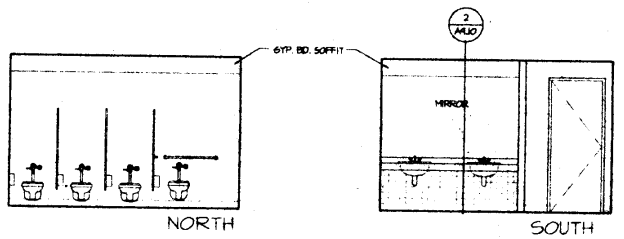


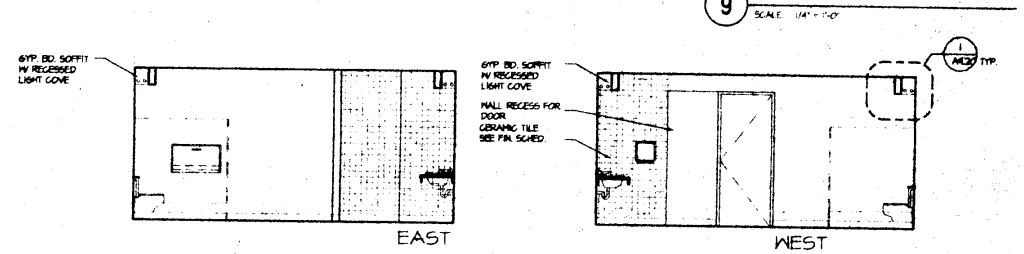
10 MEN'S RESTROOM 125
SCALE: 1/4" = 1'-0"





9 MEN'S RESTROOM 126
SCALE: 1/4" = 1'-0"





7 WOMEN'S RESTROOM 127
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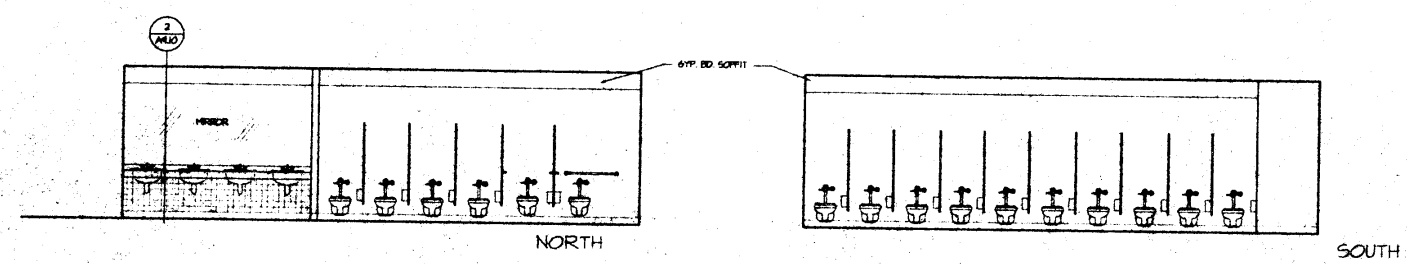
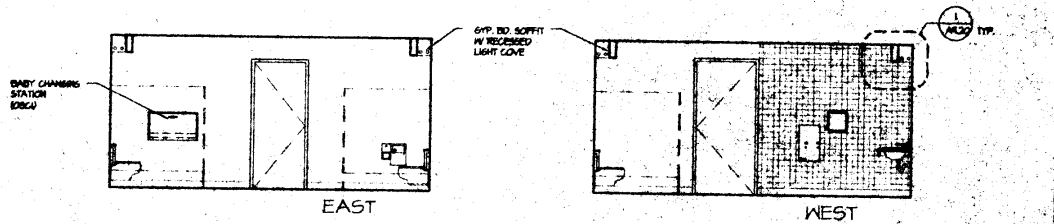
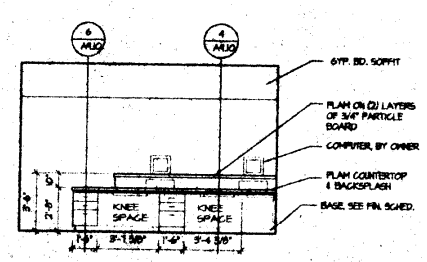
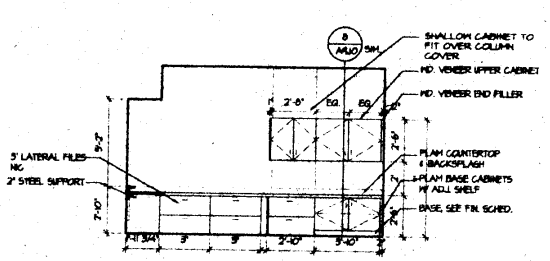




6 WOMEN'S RESTROOM 128
SCALE: 1/4" = 1'-0"



5 RECEPTION 104
SCALE: 1/4" = 1'-0"



4 RECEPTION 104
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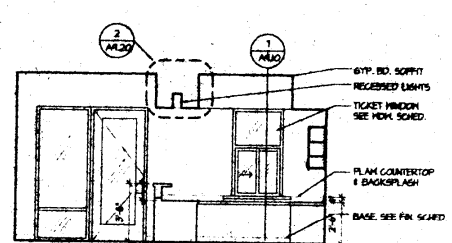

3 RECEPTION 104
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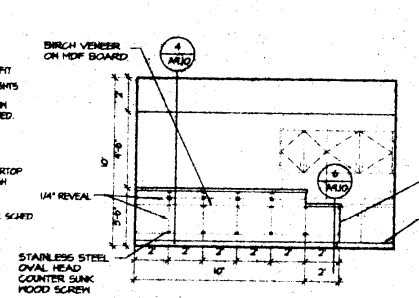

2 RECEPTION 104
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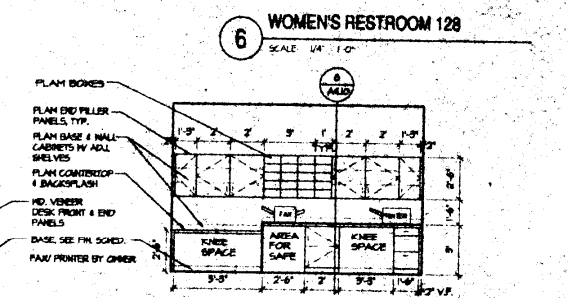


1 WORK ROOM 105
SCALE: 1/4" = 1'-0"

SINK COVER DETAILS

Issues/Revisions	Date
SCHEMATIC DESIGN	4-28-00
PROGRESS PRINT	9-20-00
DESIGN DEVELOPMENT	12-5-00
SITEEL BID REFERENCE	2-2-01
PROGRESS SET	3-9-01
CONSTRUCTION DOCUMENTS	3-16-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

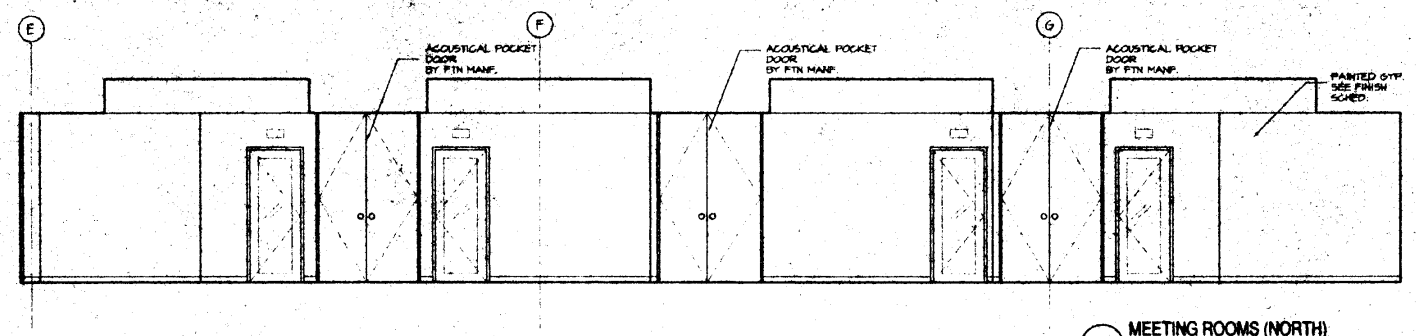
SGD Project No: 9924

INTERIOR ELEVATIONS

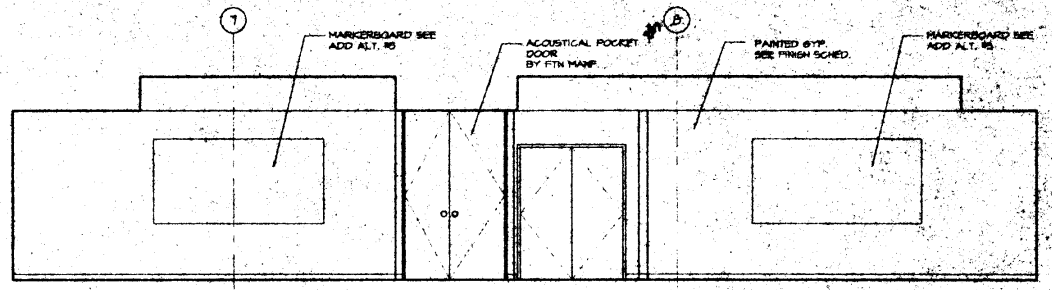
Drawn By:
Checked By:

A5.11

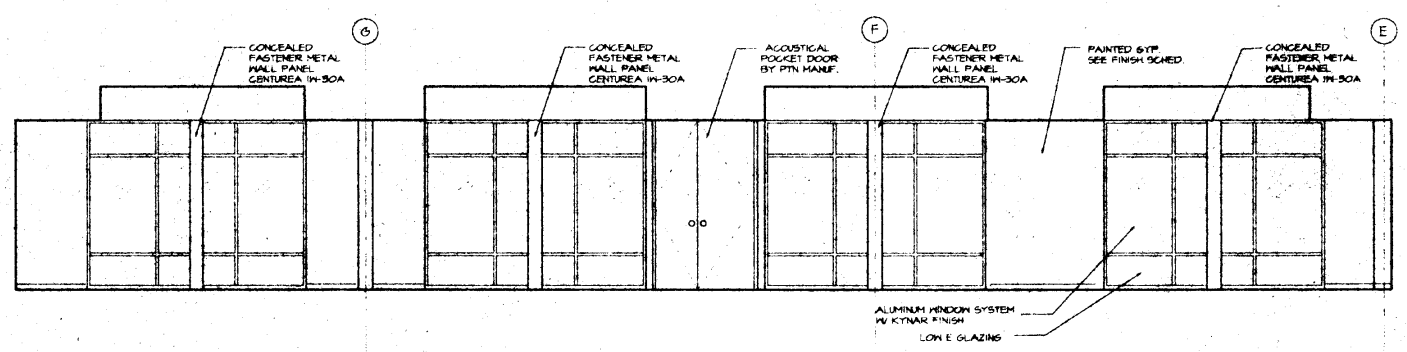
P:\9924\dwg\924511.dwg Thu, Apr 26, 01 27:48 2001



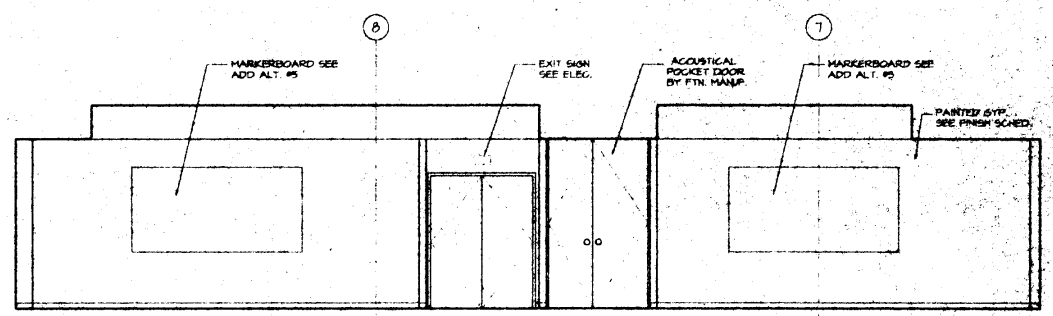
5 MEETING ROOMS (NORTH)
SCALE: 1/4" = 1'-0"



4 MEETING ROOMS (EAST)
SCALE: 1/4" = 1'-0"

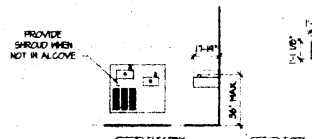


3 MEETING ROOMS (SOUTH)
SCALE: 1/4" = 1'-0"



2 MEETING ROOMS (WEST)
SCALE: 1/4" = 1'-0"

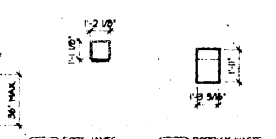
DRINKING FOUNTAIN / ELECTRIC WATER COOLERS



(15-5) ELECTRIC WATER COOLER

- SEE MECHANICAL & ELECTRICAL DRAWINGS FOR SPECIFICATIONS

PAPER TOWEL DISPENSER WASTE RECEPTACLE

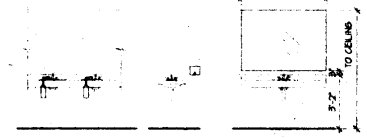


(15-23) FORT JAMES PAPER TOWEL DISPENSER (OSCI)

OWNER TO SUPPLY (5) ADDITIONAL 15-23 UNITS FOR CONTRACTOR TO INSTALL AT KITCHEN HANDSINK LOCATIONS

(15-24) BOBRICK WASTE RECEPTACLE

SOAP DISPENSER



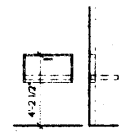
(15-6) BOBRICK B-822 SOAP DISPENSER

(15-32) BOBRICK B-212 SOAP DISPENSER (OSCI)

OWNER TO SUPPLY (5) ADDITIONAL 15-23 UNITS FOR CONTRACTOR TO INSTALL AT KITCHEN HANDSINK LOCATIONS

(15-43) 1/4" FRAMELESS MIRROR WITH GROMIE OR SS J-HOLD AT BOTTOM

BABY CHANGE



(15-41) KOALA HORIZONTAL BABY CHANGE

OSCI (2) UNITS CONTRACTOR PROVIDED REMAINING 2 UNITS

TOILET PAPER DISPENSER SAN VEND. DISPENSER

(15-52) FORT JAMES TOILET PAPER DISPENSER (OSCI)

(15-58) BOBRICK B 3500 25 SAN. VEND.

SANITARY RECEPTACLE

(15-54) BOBRICK B-354 SAN DISP PTD. INTO SERVES (2) STALLS

(15-57) BOBRICK B-353 SAN. DISP.

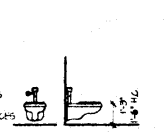
SEAT COVER LAVATORY

(15-56) BOBRICK B-310 SEAT COVER DISPENSER

(15-61) COUNTERTOP LAVATORIES

- SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS

TOILET

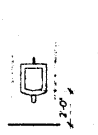


(15-65) WALL HUNG TOILET

(15-65) WALL HUNG TOILET ACCESSIBLE

- SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS

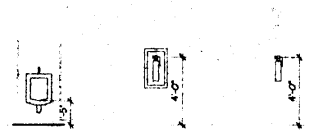
URINAL



(15-64) URINAL

- SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS

FIRE PROTECTION SPECIALTIES



(74-64) URINAL ACCESSIBLE

(15-40) FIRE EXTINGUISHER - RECESSED CABINET

(15-42) FIRE EXTINGUISHER - WALL MOUNTED

TOILET PARTITIONS

(15H-1) POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS

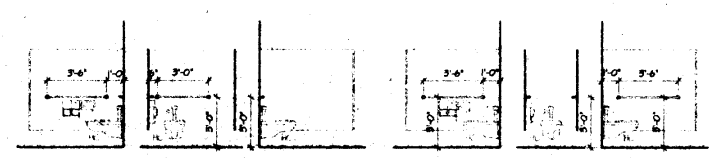
(15F-1) SOLID PLASTIC - FLOOR ANCHORED PARTITIONS (ADD ALT #5)

URINAL PARTITIONS

(15H-3) POWDER COATED STEEL WALL HUNG PARTITIONS

(15F-3) SOLID PLASTIC - WALL HUNG PARTITIONS (ADD ALT #5)

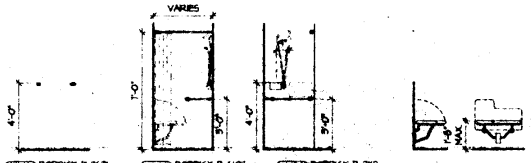
GRAB BARS



(15-18) BOBRICK B-6806X36 & B-6806X42 GRAB BARS

(15-19) BOBRICK (2) B-6806X42 GRAB BARS (AMBULATORY)

SHOWER ACCESSORIES



(15-68) BOBRICK B-167 ROBE HOOK

(15-68) BOBRICK B-1672 DOUBLE ROBE HOOK

(15-69) BOBRICK B-6107 SHOWER CURTAIN ROD

AND BOBRICK B-204-1 SHOWER CURTAIN HOOKS

AND BOBRICK B-204-2 SHOWER CURTAINS

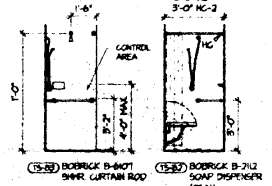
(15-37) BOBRICK B-262 SOAP DISPENSER (OSCI)

(15-70) BOBRICK B-6806X18 GRAB BAR

(15-69) BOBRICK B-5181 SOLID SHOWER SEAT

SHOWER GROUPS

SH-2 SHOWER ACCESSIBLE



(15-69) BOBRICK B-6107 SHWR. CURTAIN ROD

BOBRICK B-204-1 SHWR. CURTAIN HOOKS

BOBRICK B-204-2 SHWR. CURTAINS

(15-37) BOBRICK B-262 SOAP DISPENSER (OSCI)

(15-70) BOBRICK B-6806 X 18 GRAB BAR

(15-69) BOBRICK B-5181 SOLID SHOWER SEAT

GENERAL NOTES

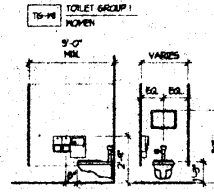
1) SEE SPEC. SECTION 10650 FOR TOILET PARTITIONS

2) SEE SPEC. SECTION 10520 FOR FIRE EXTINGUISHERS

3) SEE SPEC. SECTION 15105 FOR PLUMBING FIXTURES

TOILET GROUPS

TG-H1 TOILET GROUP 1 WOMEN



(15-52) COMPACT 5871 TOILET PAPER DISPENSER (OSCI)

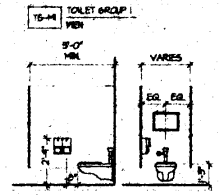
(15-58) BOBRICK B-354 SAN VEND

(15-54) BOBRICK B-301 SEAT COVER DISPENSER

(11-68) WALL HUNG TOILET

(11H-3) POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS

TG-H4 TOILET GROUP 1 MEN



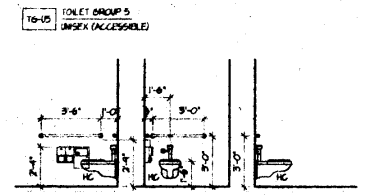
(15-52) COMPACT 5871 TOILET PAPER DISPENSER (OSCI)

(15-58) BOBRICK B30 SEAT COVER DISPENSER

(11-65) WALL HUNG TOILET

(11H-3) POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS

TG-U5 TOILET GROUP 5 UNISEX (ACCESSIBLE)



(15-52) COMPACT 5871 TOILET PAPER DISPENSER (OSCI)

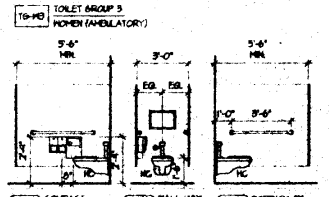
(15-57) BOBRICK B-294 SAN DISP

(15-54) BOBRICK B-301 SEAT COVER DISPENSER

(11-68) WALL HUNG TOILET ACCESSIBLE

(15-18) BOBRICK B-6806X36 & B-6806X42 GRAB BARS

TG-H3 TOILET GROUP 3 WOMEN (AMBULATORY)



(15-52) COMPACT 5871 TOILET PAPER DISPENSER (OSCI)

(15-58) BOBRICK B-354 SAN DISP

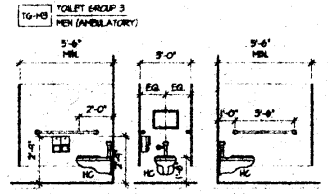
(15-54) BOBRICK B-301 SEAT COVER DISPENSER

(11-68) WALL HUNG TOILET ACCESSIBLE

(11H-3) POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS

(15-19) BOBRICK (2) B-6806X42 GRAB BARS

TG-H3 TOILET GROUP 3 MEN (AMBULATORY)



(15-52) COMPACT 5871 TOILET PAPER DISPENSER (OSCI)

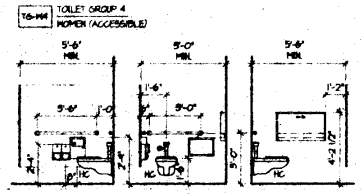
(15-54) BOBRICK B-301 SEAT COVER DISPENSER

(11-68) WALL HUNG TOILET ACCESSIBLE

(11H-3) POWDER COATED STEEL - FLOOR ANCHORED PARTITIONS

(15-19) BOBRICK (2) B-6806X42 GRAB BARS

TG-H4 TOILET GROUP 4 WOMEN (ACCESSIBLE)



(15-52) COMPACT 5871 TOILET PAPER DISPENSER (OSCI)

(15-58) BOBRICK B-354 SAN DISP

(15-54) BOBRICK B-301 SEAT COVER DISPENSER

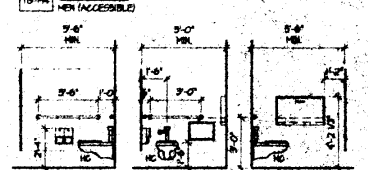
(11-68) WALL HUNG TOILET ACCESSIBLE

(11H-3) POWDER COATED STEEL FLOOR ANCHORED PARTITIONS

(15-18) BOBRICK B-6806X36 & B-6806X42 GRAB BARS

(15-41) KOALA HORIZ. BABY CHANGE

TG-H4 TOILET GROUP 4 MEN (ACCESSIBLE)



(15-52) COMPACT 5871 TOILET PAPER DISPENSER (OSCI)

(15-58) BOBRICK B-354 SAN. VEND.

(15-54) BOBRICK B-310 SEAT COVER DISPENSER

(11-68) WALL HUNG TOILET ACCESSIBLE

(11H-3) POWDER COATED STEEL FLOOR ANCHORED PARTITIONS

(15-18) BOBRICK B-6806X36 & B-6806X42 GRAB BARS

(15-41) KOALA HORIZ. BABY CHANGE (OSCI)

1 RESTROOM ACCESORIES
SCALE: 1/4" = 1'-0"

P:\SRCA\data\SCN45-12.dwg Thu Apr 05 08:28:05 2001

SINK COMBS DETHLEFS

Issues/Revisions	Date
SCHEMATIC DESIGN	4-06-00
PROGRESS PRINT	9-06-00
DESIGN DEVELOPMENT	12-15-00
SITES, BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
FINAL CONSTRUCTION SET	4-26-01

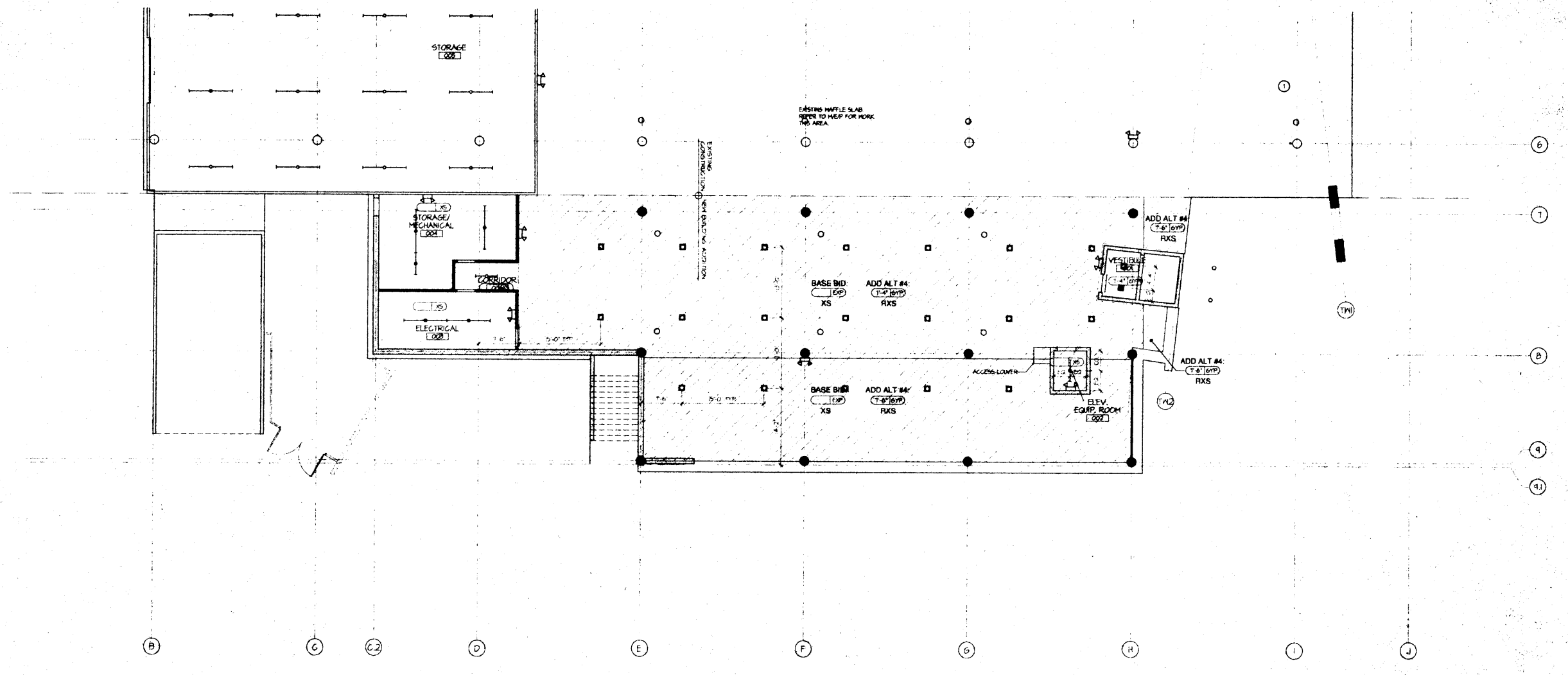
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SGD Project No. 9824

INTERIOR ELEVATIONS

Drawn by:
Checked by:

A5.12



1 REFLECTED CEILING PLAN PARTIAL

SCALE: 1/8" = 1'-0"

NORTH

RCP LEGEND

- 2' X 4' ACOUSTIC TILE W/ REGULAR EDGE, 2' X 2' APPEARANCE
- 2' X 4' ACOUSTIC TILE IN SUSPENDED GRID SYSTEM
- 6YP BOARD CEILING OR SUSPENDED MTL FRAMING SYSTEM
- XS
- RXS
- EXPOSED CONSTRUCTION (NO CEILING)
- PROVIDE SPRAY ON FIRE PROOFING TO EXPOSED STRUCTURE TO PROVIDE 1 HOUR RATING
- 2' X 4' RECESSED FLUOR LIGHT FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- 2' X 2' RECESSED FLUOR LIGHT FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- TRACK LIGHTING SYSTEM SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- STAIR LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- PENDANT MOUNTED LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- RECESSED CAN DOWNLIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- WALL MOUNTED LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- EXIT LIGHT, WALL MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- EXIT LIGHT, CEILING MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- PENDANT LIGHT, CEILING MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- LIGHT SCONCE, WALL MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- EMERGENCY LIGHTING UNIT SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- LIGHT BOLLARD SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- SUSPENDED DIRECT/INDIRECT FLUORESCENT LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- 4' INDUSTRIAL STRIP FLUOR FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- 8' INDUSTRIAL STRIP FLUOR FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE
- 6YP BOARD CONSTRUCTED RECESSED COVE WITH PARABOLIC LOUVER.
- MECHANICAL SUPPLY AIR DIFFUSERS REFER TO MECHANICAL
- MECHANICAL RETURN AIR DIFFUSERS REFER TO MECHANICAL

SINK COMBS DETHLEFS

ISSUES/REVISIONS	TYPE
SCHEMATIC DESIGN	4-09-010
PROGRESS PRINT	8-10-010
DESIGN DEVELOPMENT	12-15-010
STEEL BID REFERENCE	2-8-011
PROGRESS SET	2-18-011
CONSTRUCTION DOCUMENTS	3-16-011
FINAL CONSTRUCTION SET	4-28-011

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

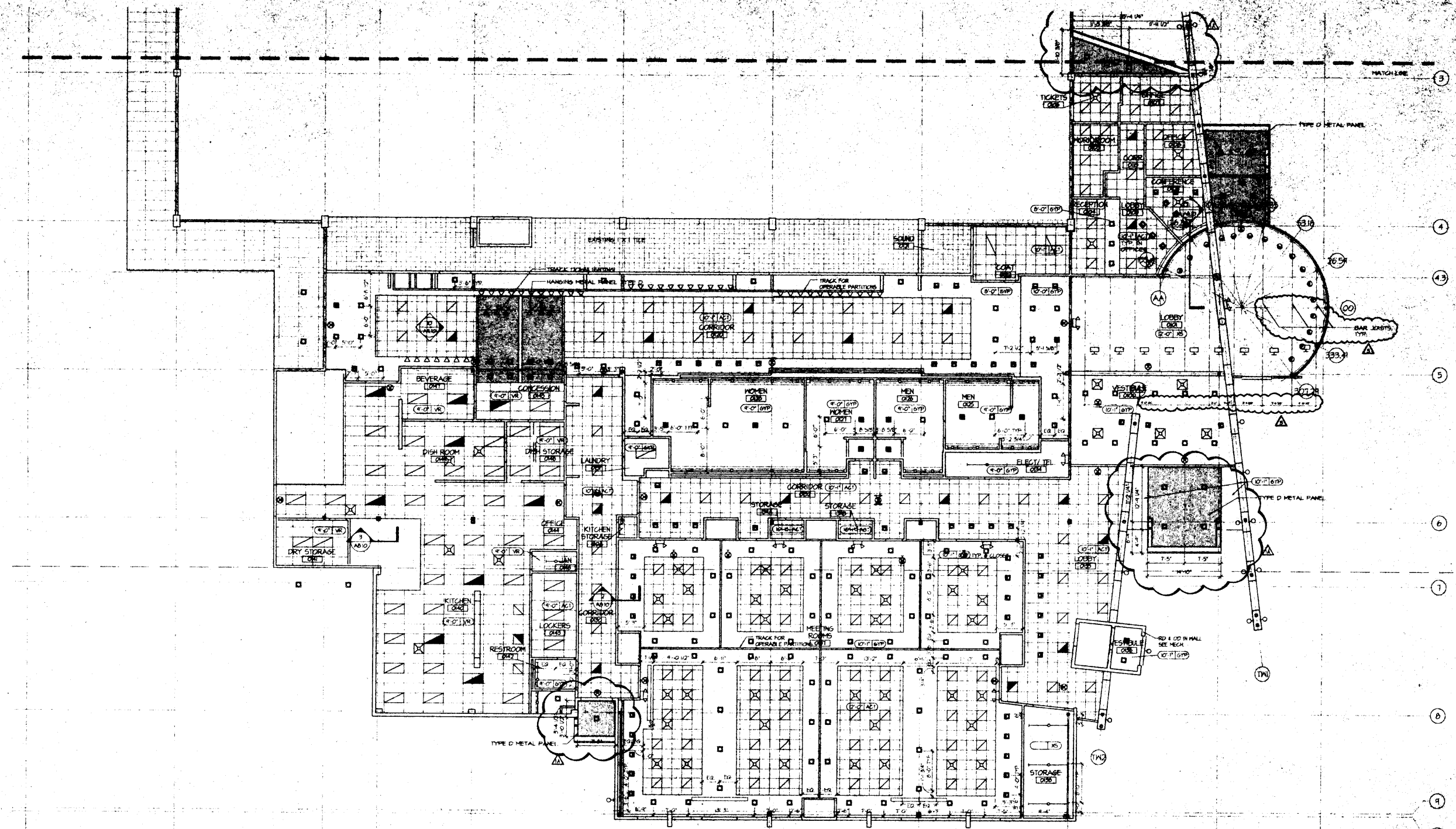
SCD Project No.: 4924

PARKING LEVEL REFLECTED CEILING PLAN PARTIAL

Drawn By:
Checked By:

A6.11

P:\4924\DWG\4924A6-11.dwg Thu Apr 28 08:30:19 2011



1 PLAZA LEVEL REFLECTED CEILING PLAN
SCALE: 1/16" = 1'-0"

RCP LEGEND

CEILING SYMBOL

2' X 4' ACOUSTIC TILE IN REGULAR EDGE 2' X 2' APPEARANCE

2' X 4' ACOUSTIC TILE IN SUSPENDED GRID SYSTEM

GYP-BOARD CEILING ON SUSPENDED MTL FRAMING SYSTEM

EXPOSED CONSTRUCTION (NO CEILING)

PROVIDE SPRAY ON FIRE PROOFING TO EXPOSED STRUCTURE TO PROVIDE 1 HOUR RATING.

2' X 4' RECESSED FLUOR LIGHT FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

2' X 2' RECESSED FLUER LIGHT FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

TRACK LIGHTING SYSTEM SEE ELECTRICAL DWGS FOR FIXTURE TYPE

STAIR LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

PENDANT MOUNTED LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

RECESSED CAN DOWNLIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

WALL MOUNTED LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EXIT LIGHT, WALL MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EXIT LIGHT, CEILING MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

PENDANT LIGHT, CEILING MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

LIGHT SCONCE, WALL MOUNTED SEE ELECTRICAL DWGS FOR FIXTURE TYPE

EMERGENCY LIGHTING UNIT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

LIGHT BOLLARD SEE ELECTRICAL DWGS FOR FIXTURE TYPE

SUSPENDED DIRECT/INDIRECT FLUORESCENT LIGHT SEE ELECTRICAL DWGS FOR FIXTURE TYPE

4' INDUSTRIAL STRIP FLOOR FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

8' INDUSTRIAL STRIP FLOOR FIXTURE SEE ELECTRICAL DWGS FOR FIXTURE TYPE

GYP-BOARD CONSTRUCTED RECESSED COVE WITH PARABOLIC LOUVER.

MECHANICAL SUPPLY AIR DIFFUSERS REFER TO MECHANICAL

MECHANICAL RETURN AIR DIFFUSERS REFER TO MECHANICAL

SINK CORNER DETAILS

ISSUANCE/REVISIONS	Date
SCHEMATIC DESIGN	8-30-00
PROGRESS PRINT	9-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-28-01
CONSTRUCTION DOCUMENTS	3-16-01
ADDENDUM #2	3-28-01
BULLETIN #2	4-19-01
FINAL CONSTRUCTION SET	4-28-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

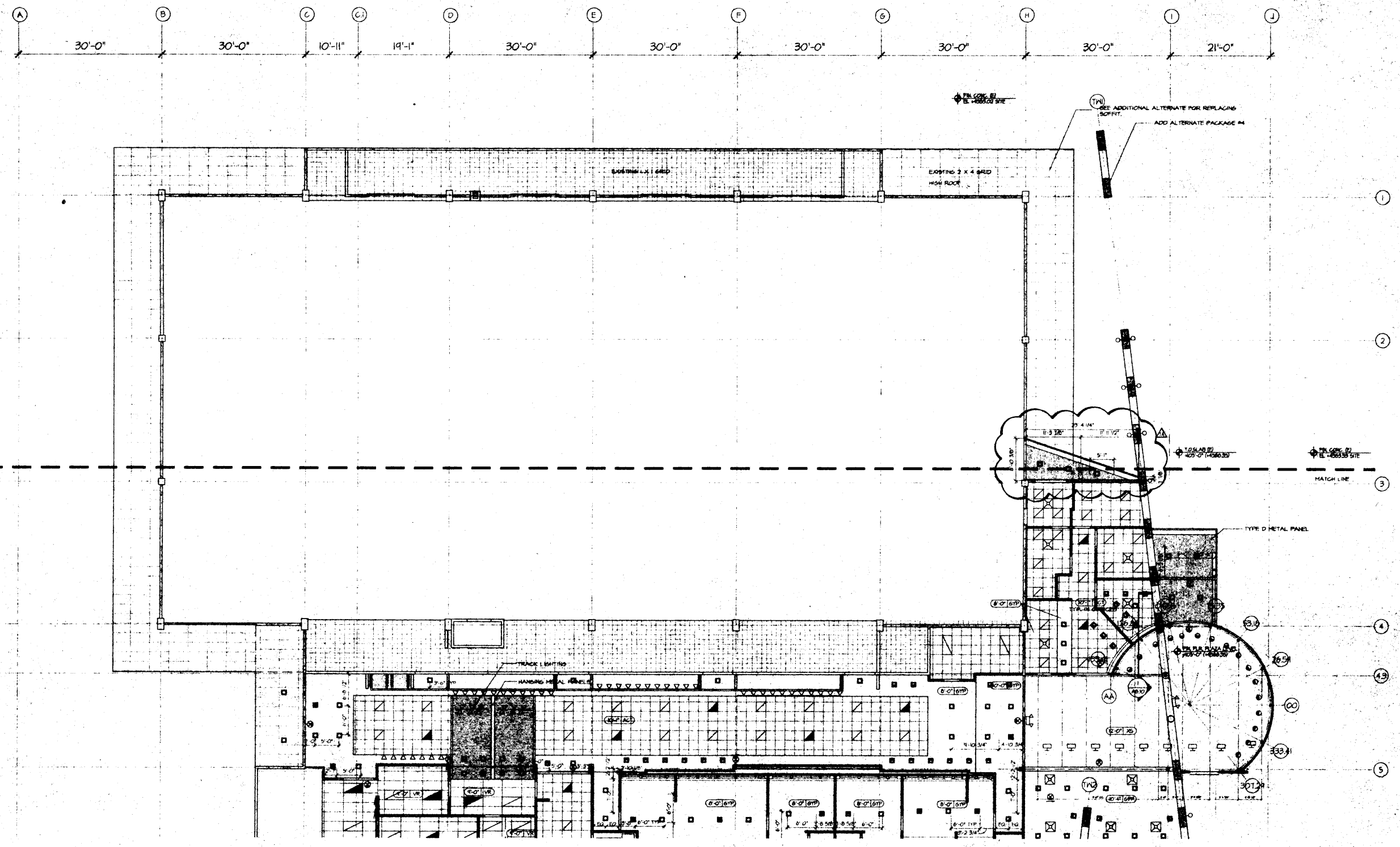
SGD Project No: 9924

PLAZA LEVEL
REFLECTED CEILING
PLAN PARTIAL

Drawn by:
Checked by:

A6.21

P:\0924\dwg\A6x21.dwg Thu Apr 26 08:30:51 2001



1 ENLARGED REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

NORTH

P:\2021\Dwg\SD\A6-22.dwg Thu, Apr 29, 08:31:29 2021

SINK COMBS DETHLEFS

Issues/Revisions	Date
SCHEMATIC DESIGN	4-08-00
PROGRESS PRINT	4-30-00
DESIGN DEVELOPMENT	10-6-00
SITE/ BID REFERENCE	2-16-01
PROGRESS SET	3-9-01
CONSTRUCTION DOCUMENTS	3-28-01
ADDENDUM #2	5-25-01
FINAL CONSTRUCTION SET	6-28-01

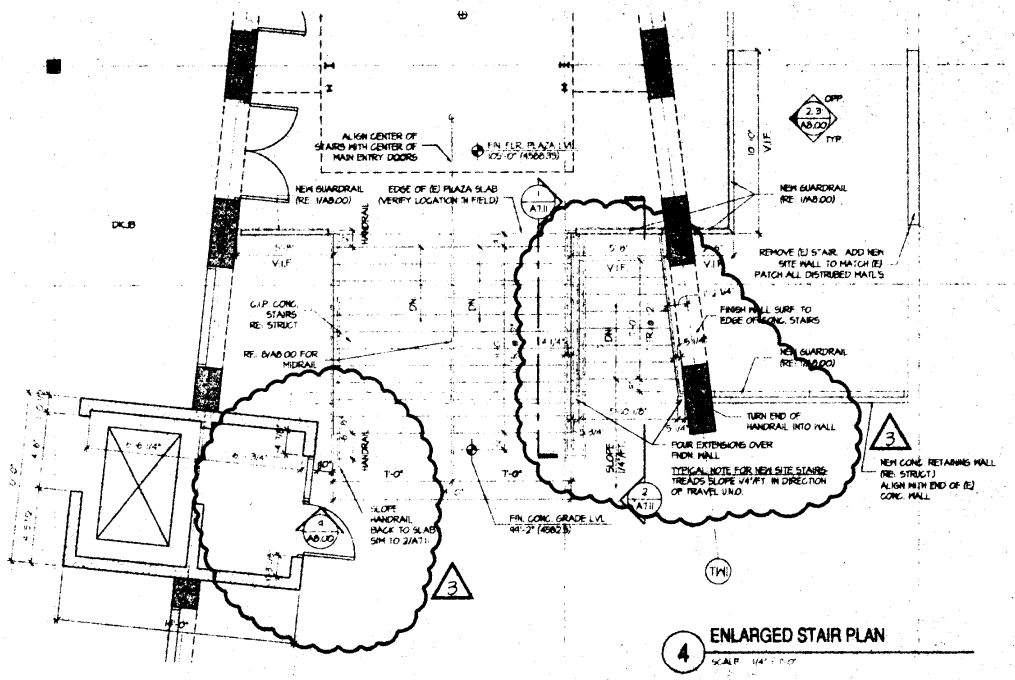
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

ENLARGED REFLECTED CEILING PLAN

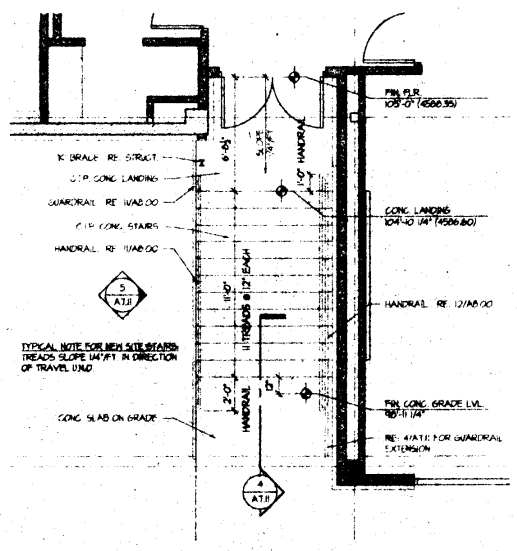
Drawn by:
Checked by:

A6.22



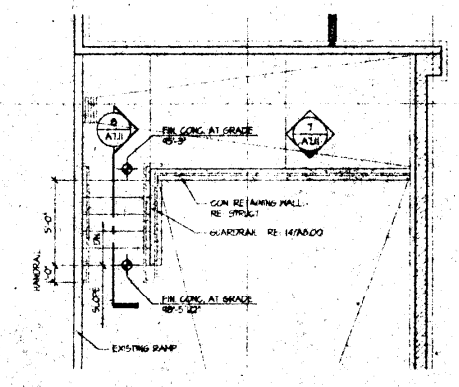
4 ENLARGED STAIR PLAN

SCALE: 1/4" = 1'-0"



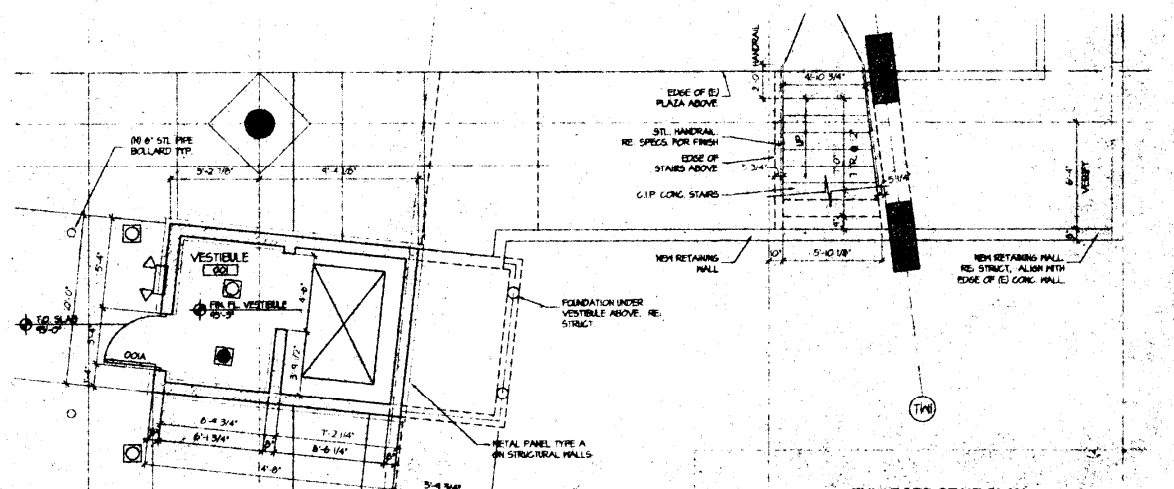
2 ENLARGED STAIR PLAN

SCALE: 1/4" = 1'-0"



3 ENLARGED STAIR PLAN

SCALE: 1/4" = 1'-0"



1 ENLARGED STAIR PLAN

SCALE: 1/4" = 1'-0"

SINK COMBS DETAILERS

ISSUANCE/REVISIONS	Date
SCHEMATIC DESIGN	4-28-00
PROGRESS PRINT	8-28-00
DESIGN DEVELOPMENT	12-15-00
SHELL BID REFERENCE	1-26-01
PROGRESS SET	3-16-01
CONSTRUCTION DOCUMENTS	8-15-01
BULLETIN #2	9-19-01
FINAL CONSTRUCTION SET	9-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

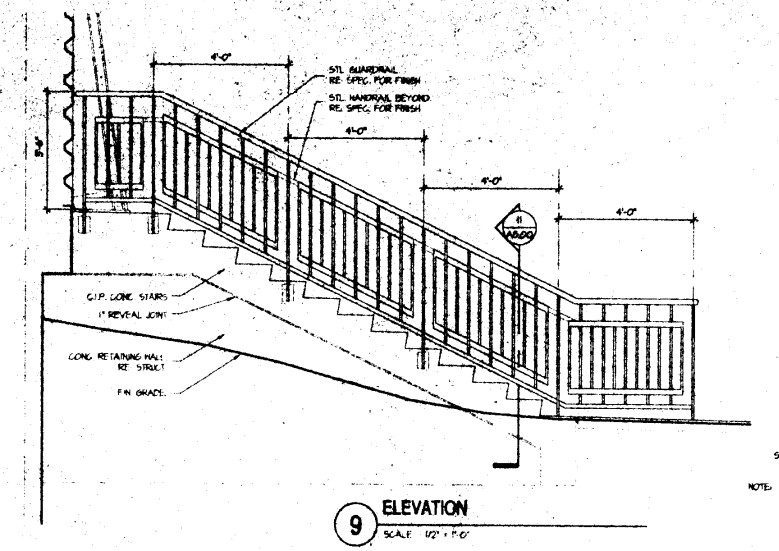
SCD Project No: 9934

ENLARGED STAIR AND ELEVATOR PLANS

Drawn by:
Checked by:

A7.10

P:\SBDV\DWG\9934-7-10.dwg, Thu, Apr 26, 02 12:34, 2001



9 ELEVATION
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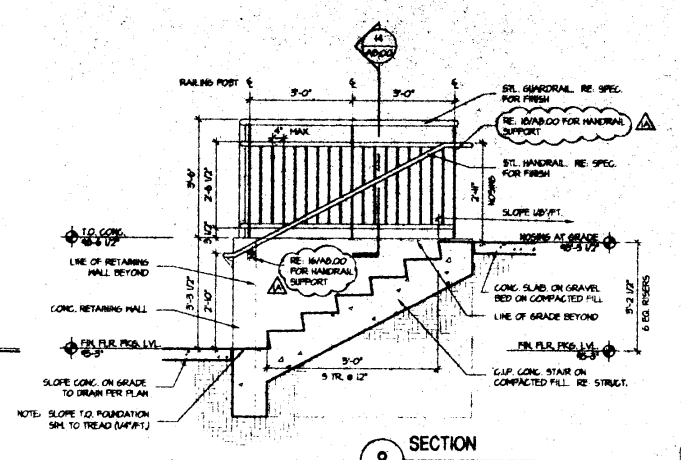

8 SECTION
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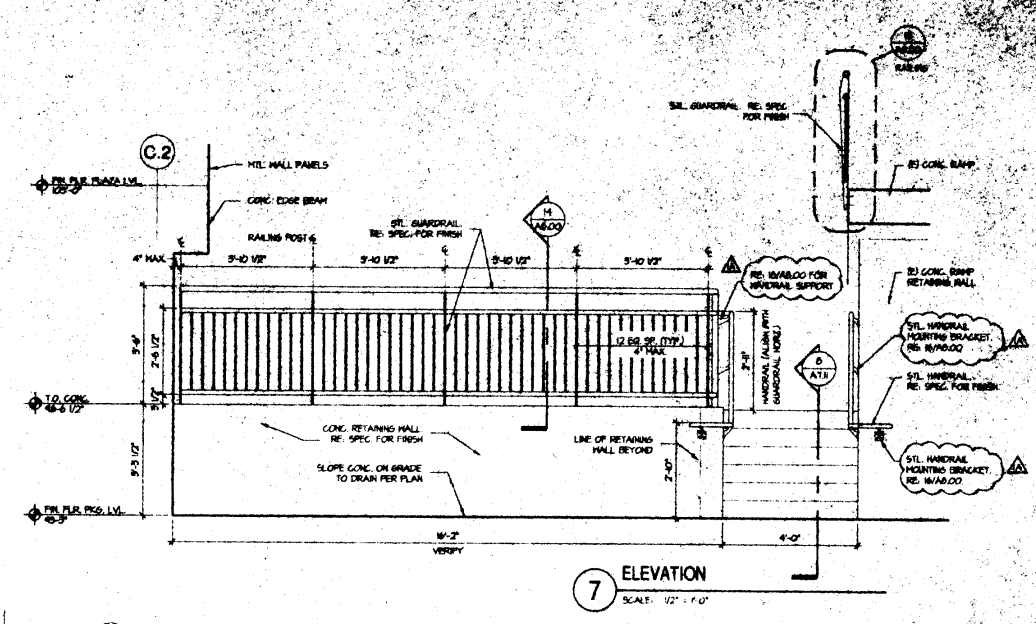

7 ELEVATION
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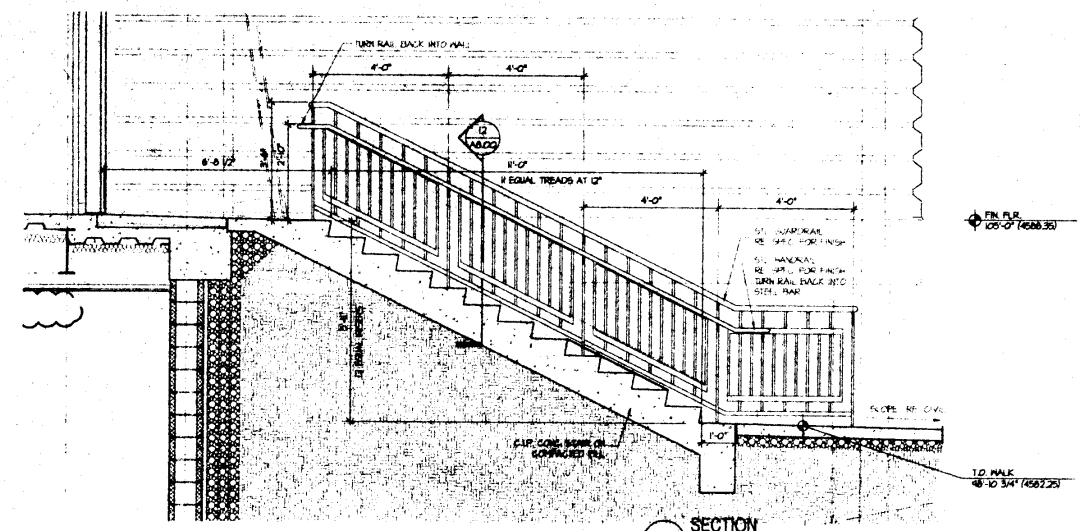

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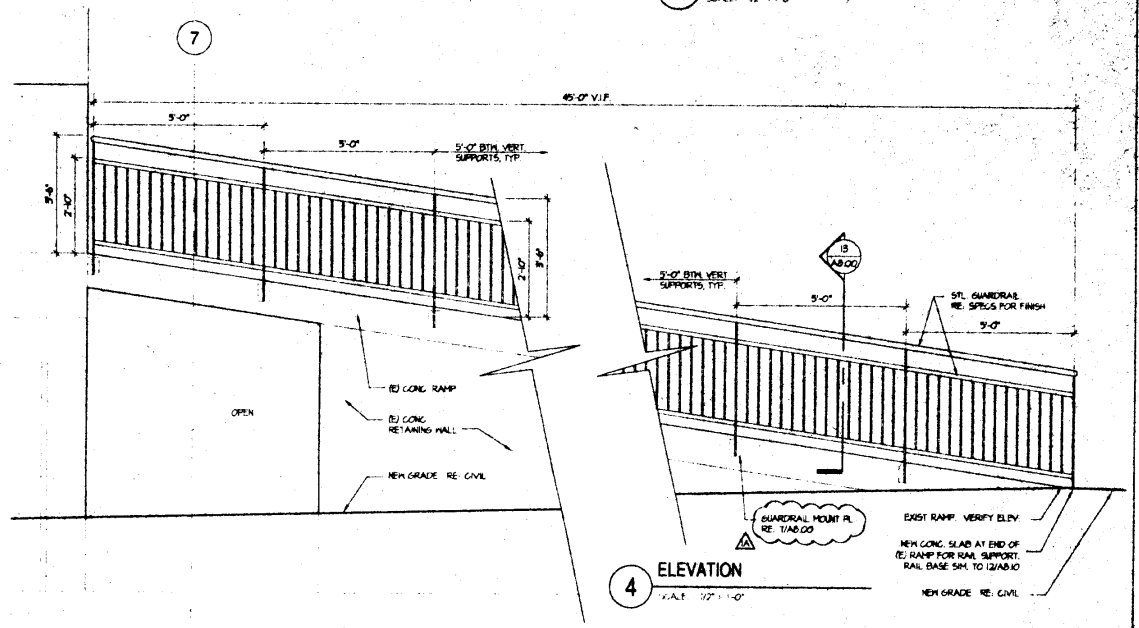
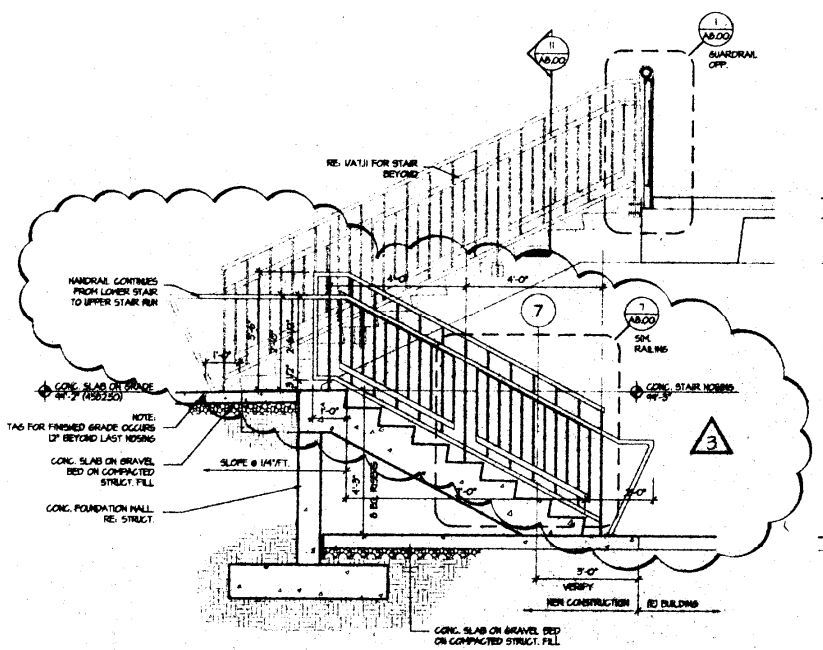


4 ELEVATION
SCALE: 1/2" = 1'-0"

3 NOT USED
SCALE: 1/2" = 1'-0"



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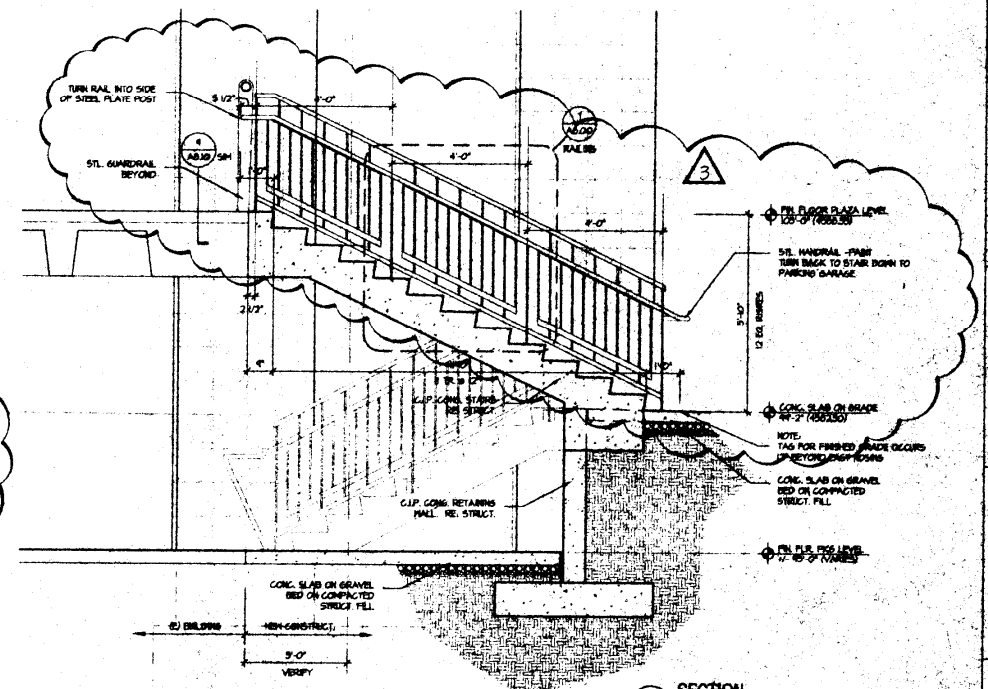

1 SECTION
SCALE: 1/2" = 1'-0"

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SINK COMBS DETHLEFS

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	9-20-00
DESIGN DEVELOPMENT	12-15-00
SITEPLAN REFERENCE	2-8-01
PROGRESS SET	2-16-01
ADDENDUM #1	3-8-01
ADDENDUM #2	3-28-01
BULLETIN #2	4-6-01
FINAL CONSTRUCTION SET	4-26-01

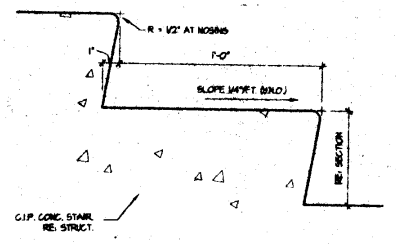
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9824

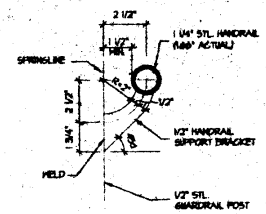
STAIR SECTIONS AND ELEVATIONS

Drawn by:
Checked by:

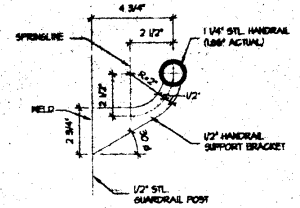
A7.11



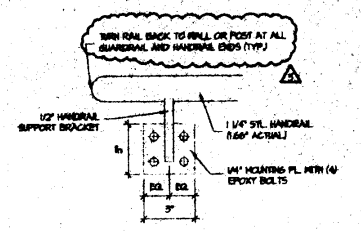
20 DETAIL — TYPICAL STAIRWAY TREAD
SCALE: 3" = 1'-0"



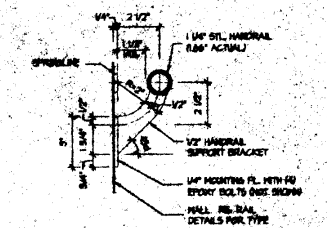
19 SECTION DETAIL
SCALE: 3" = 1'-0"



18 SECTION DETAIL
SCALE: 3" = 1'-0"

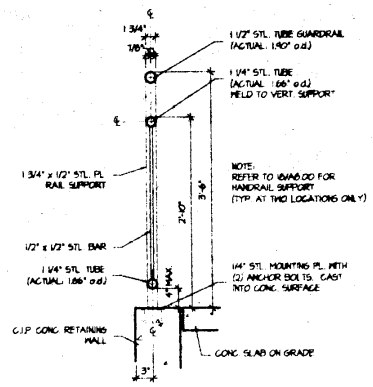


17 ELEVATION DETAIL
SCALE: 3" = 1'-0"



16 SECTION DETAIL
SCALE: 3" = 1'-0"

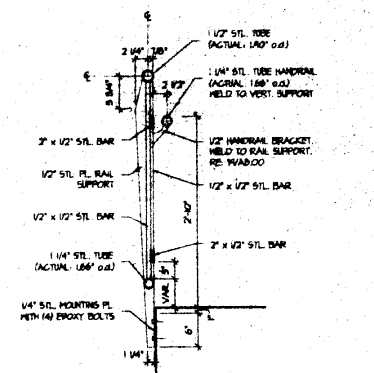
15 NOT USED
SCALE: 1" = 1'-0"



14 SECTION — GUARDRAIL
SCALE: 1" = 1'-0"

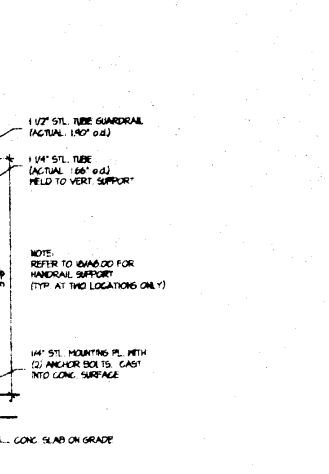
13 SECTION
SCALE: 1" = 1'-0"

12 SECTION
SCALE: 1" = 1'-0"

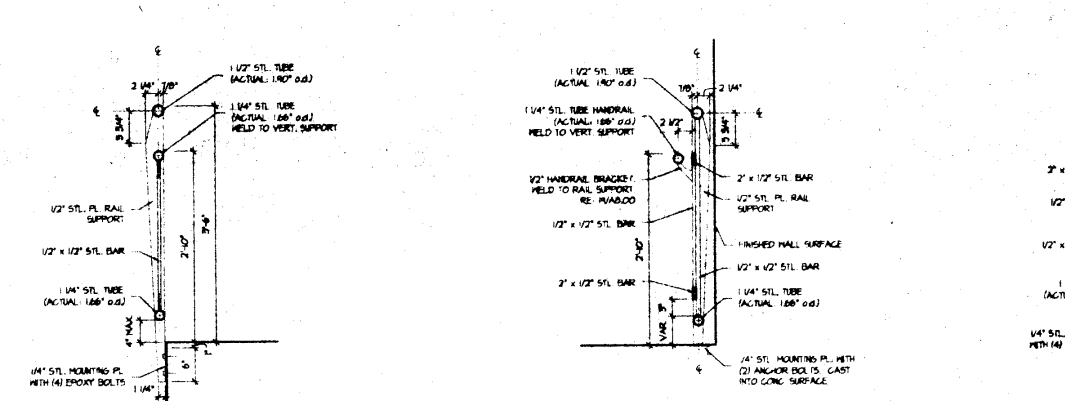


11 SECTION
SCALE: 1" = 1'-0"

5 DETAIL — GUARDRAIL SUPPORT AT 45 d. CORNER (TRUE ELEVATION)
SCALE: 1" = 1'-0"



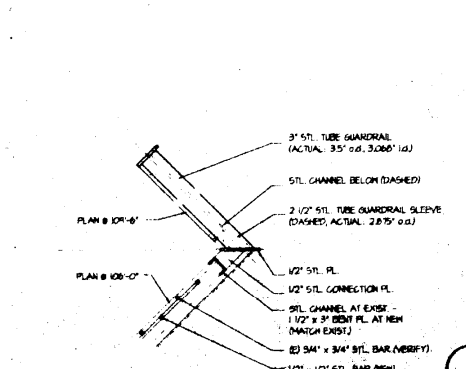
4 SECTION — (E) RAIL WITH CORRECTIVE GUARDRAIL
SCALE: 1" = 1'-0"



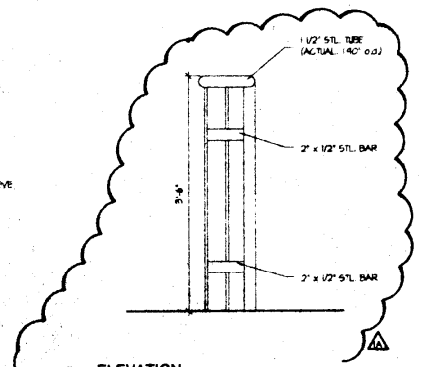
3 ELEVATION — (E) RAIL WITH CORRECTIVE GUARDRAIL
SCALE: 1" = 1'-0"

2 ELEVATION — NEW GUARDRAIL TO MATCH EXISTING
SCALE: 1" = 1'-0"

1 SECTION — NEW GUARDRAIL TO MATCH EXISTING
SCALE: 1" = 1'-0"



10 PLAN DETAIL — GUARDRAIL SUPPORT AT CORNER
SCALE: 1" = 1'-0"



9 ELEVATION
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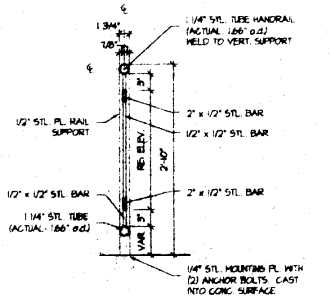
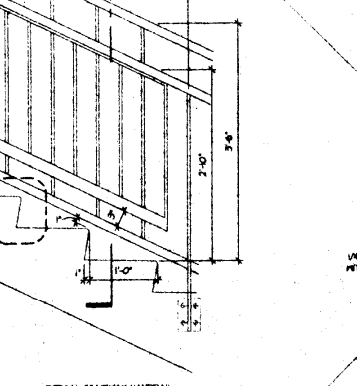
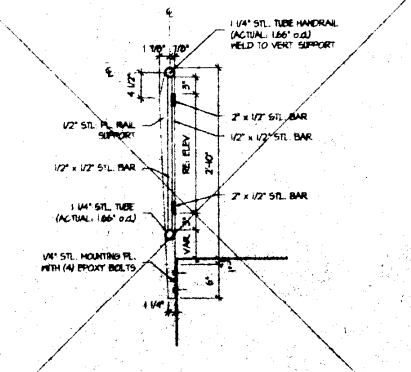


8 SECTION — TYPICAL STAIRWAY HANDRAIL
SCALE: 1" = 1'-0"



7 DETAIL — TYPICAL STAIRWAY HANDRAIL
SCALE: 1" = 1'-0"



6 NOT USED — TYPICAL STAIRWAY HANDRAIL
SCALE: 1" = 1'-0"

All creative designs, ideas, and arrangements indicated or represented by these drawings and design are the property of Gates Rinaldi and were created, evolved and developed for use on and in connection with the specified project. None of such designs, ideas or arrangements shall be used by or disclosed to any person, firm or corporation for any purpose whatsoever without the written permission of Gates Rinaldi.

SHEET CONTENTS DETAILS

Architectural Resources
for construction
Suite 100
Denver, Colorado 80202
303 295 2202
303 295 2203

ISSUES / PROVISIONS	DATE
SCHEMATIC DESIGN	10-06-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	01-31-01
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-12-01
ADDENDUM #2	5-08-01
BULLETIN #2	5-18-01
FINAL CONSTRUCTION SET	6-29-01

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

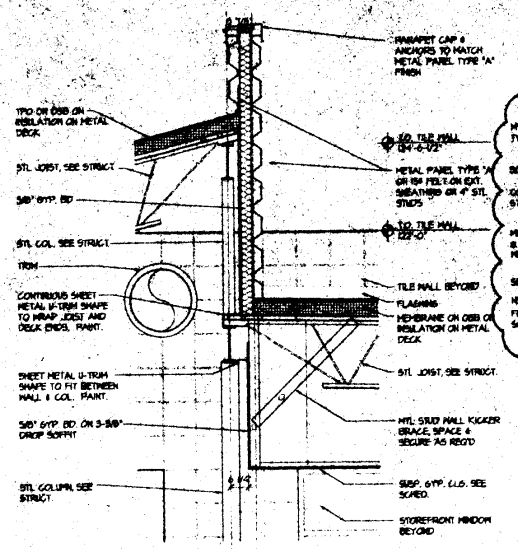
SCD Project No.: 99124

RAILING DETAILS

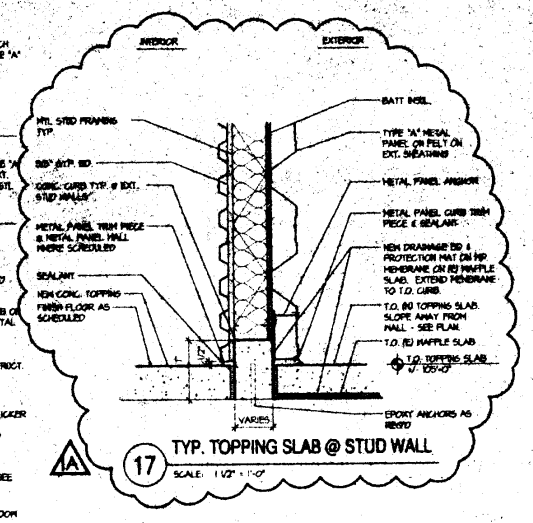
Drawn by:
Checked by:

A8.00

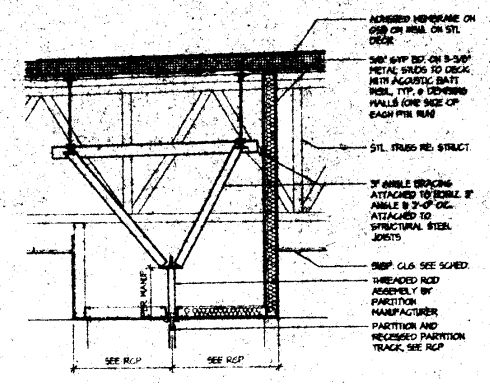
P:\99124\dwg\99124a8-00.dwg Thu, Apr 26, '01, 14:05, 2001



18 SECTION THRU DROP CLG @ LOBBY
SCALE: 1/2" = 1'-0"



17 TYP. TOPPING SLAB @ STUD WALL
SCALE: 1 1/2" = 1'-0"



16 SECTION PARTITION SUPPORT
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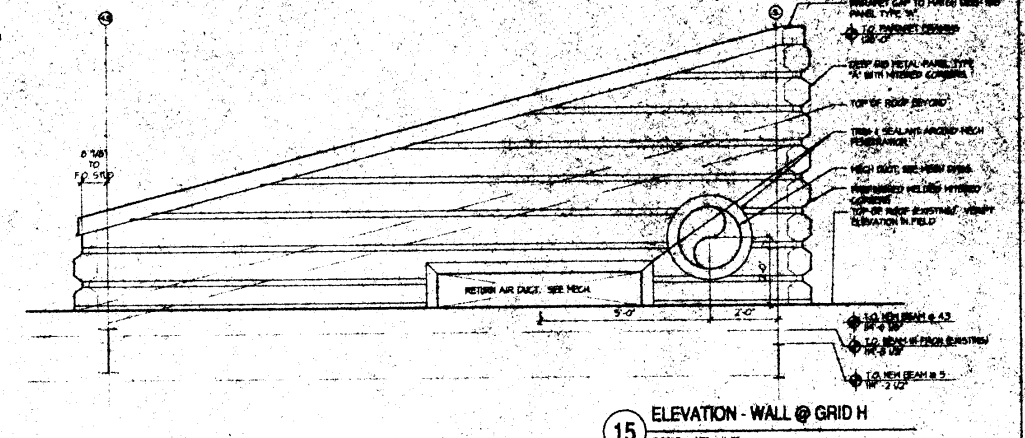

15 ELEVATION - WALL @ GRID H
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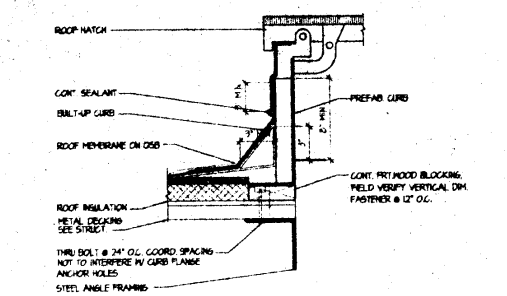

14 ROOF HATCH
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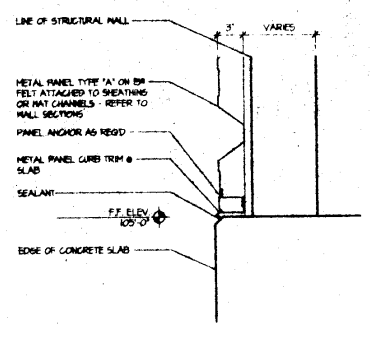
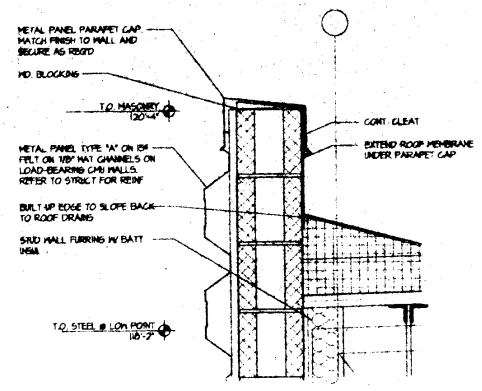
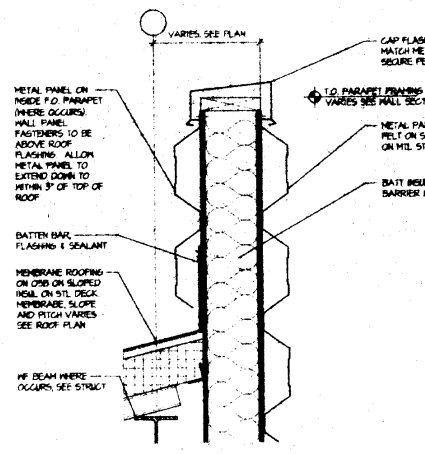


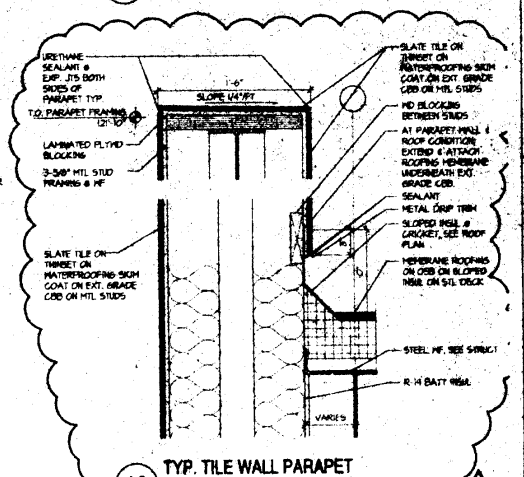
13 TYP. METAL PANEL BASE DETAIL
SCALE: 1 1/2" = 1'-0"



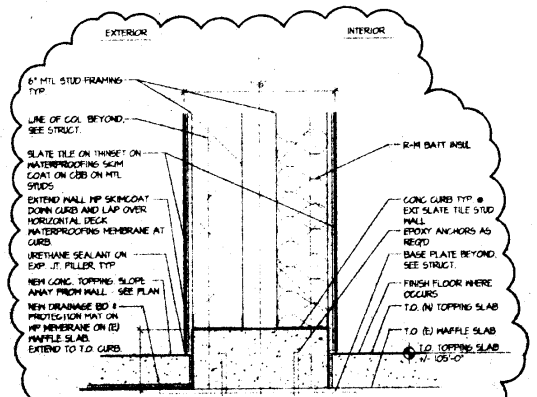
12 TYP. METAL PANEL CMU PARAPET
SCALE: 1 1/2" = 1'-0"



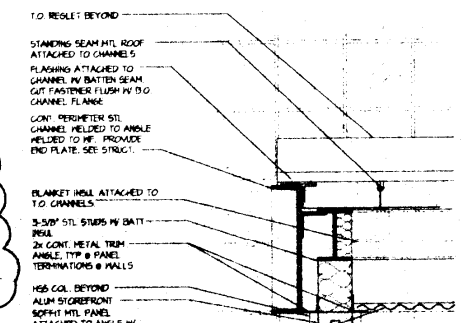
11 TYP. METAL PANEL PARAPET
SCALE: 1 1/2" = 1'-0"



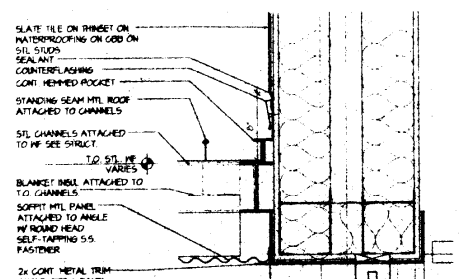
10 TYP. TILE WALL PARAPET
SCALE: 1 1/2" = 1'-0"



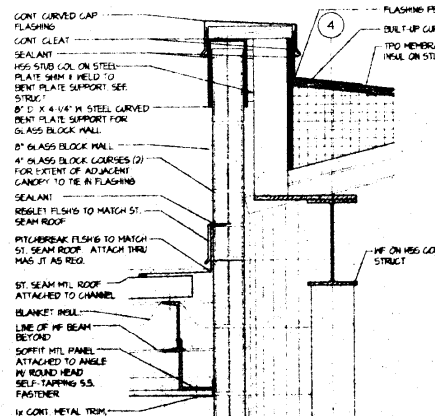
9 DETAIL TYP. TOPPING SLAB @ TILE WALL
SCALE: 1 1/2" = 1'-0"



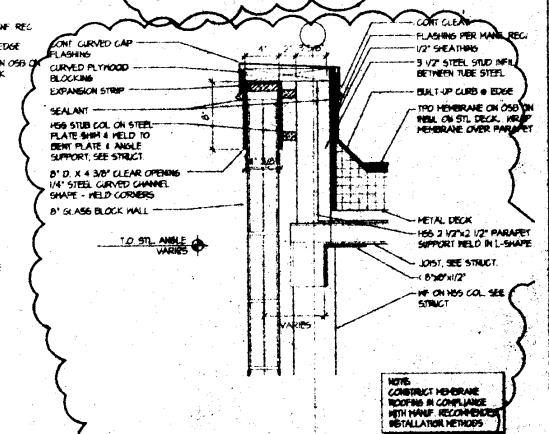
8 DETAIL METAL ROOF RAKE EDGE
SCALE: 1 1/2" = 1'-0"



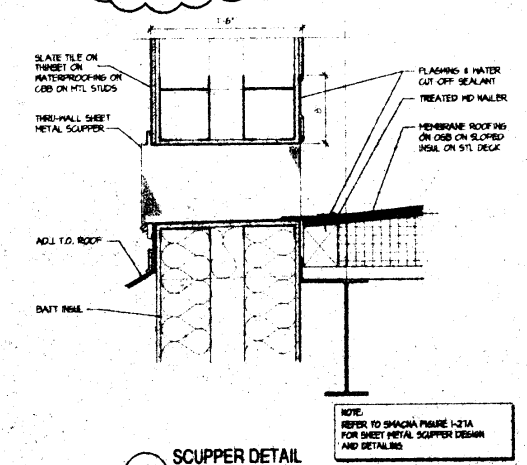
7 DETAIL, METAL ROOF @ TILE WALL
SCALE: 1 1/2" = 1'-0"



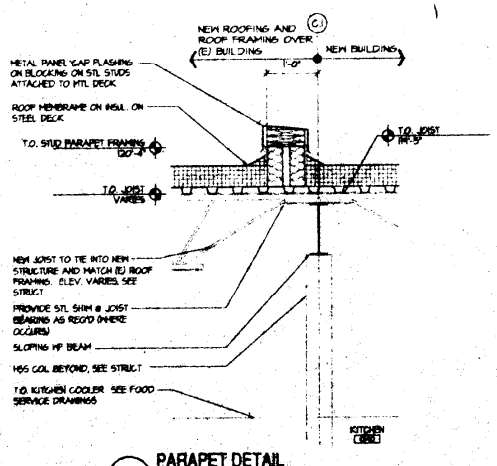
6 DETAIL - METAL ROOF / GB WALL
SCALE: 1 1/2" = 1'-0"



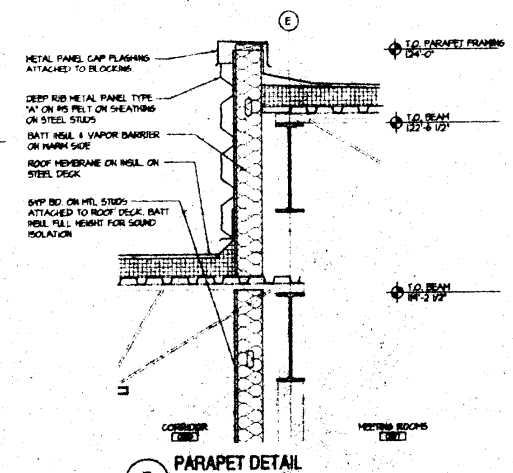
5 DETAIL - METAL ROOF / GB WALL
SCALE: 1 1/2" = 1'-0"



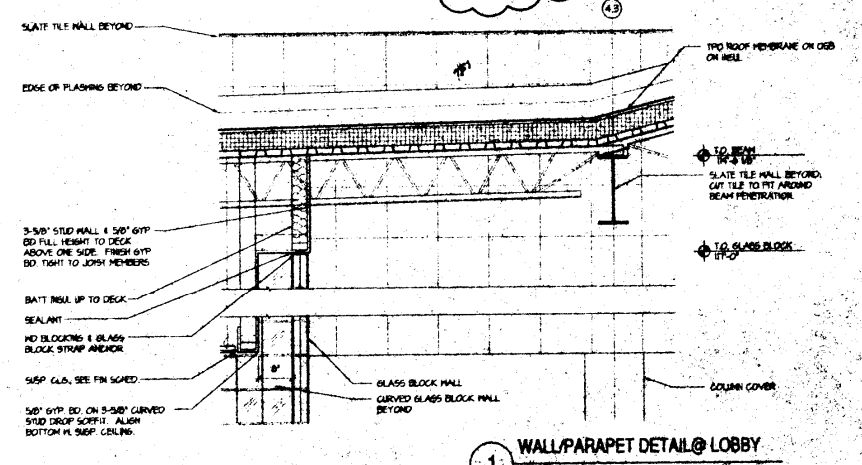
4 SCUPPER DETAIL
SCALE: 1 1/2" = 1'-0"



3 PARAPET DETAIL
SCALES: 3/4" = 1'-0"



2 PARAPET DETAIL
SCALE: 3/4" = 1'-0"



1 WALL/PARAPET DETAIL@ LOBBY
SCALE: 3/4" = 1'-0"

Issues/Revisions	Date
SCHEMATIC DESIGN	6-28-05
PROGRESS PRINT	11-30-01
DESIGN DEVELOPMENT	12-13-00
STEEL BID REFERENCE	1-19-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-28-01
ADDENDUM #2	5-24-01
BULLETIN #1	6-26-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SGT Project No. 9928

PARAPET/ ROOF DETAILS

Drawn by:
Checked by:

A8.10

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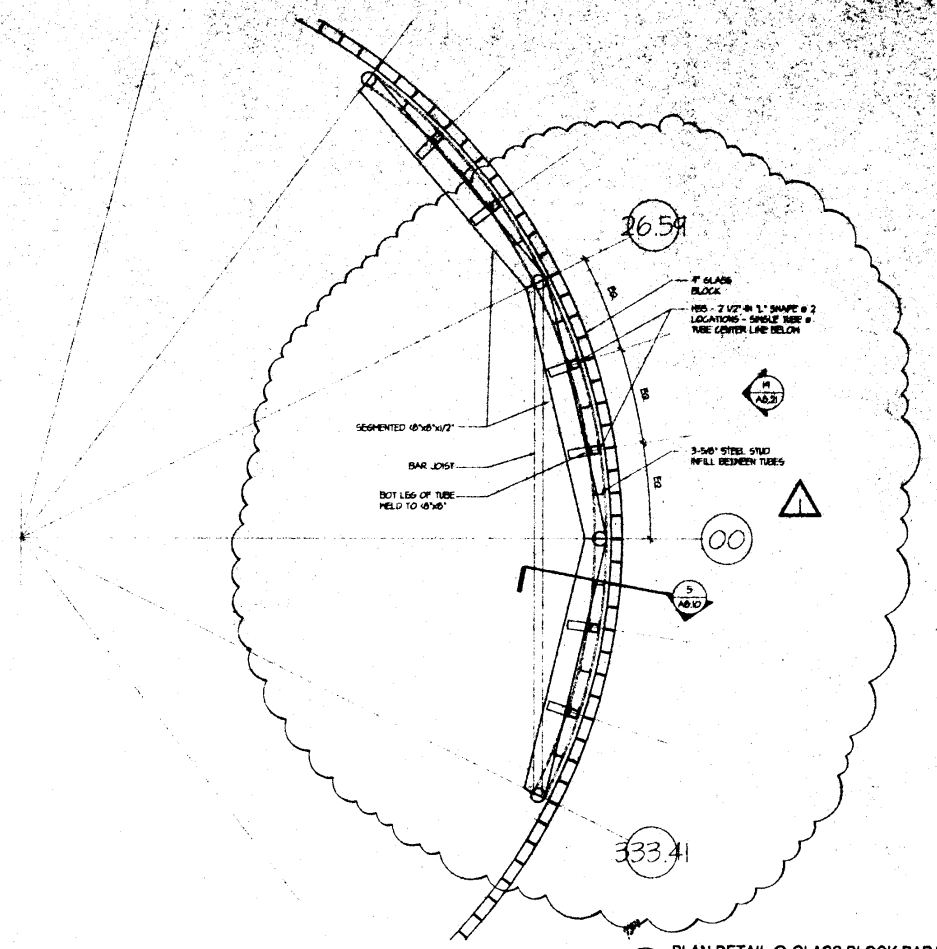
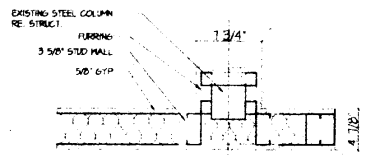
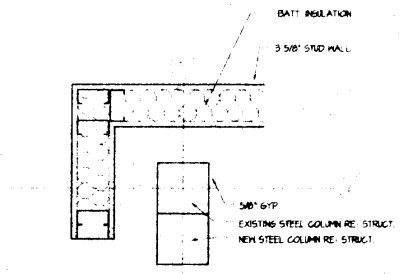


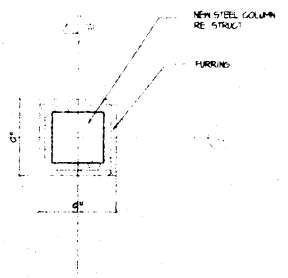
11 PLAN DETAIL @ GLASS BLOCK PARAPET
SCALE: 1 1/2" = 1'-0"



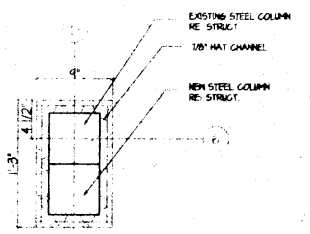
9 DETAIL
SCALE: 1 1/2" = 1'-0"



8 DETAIL
SCALE: 1 1/2" = 1'-0"

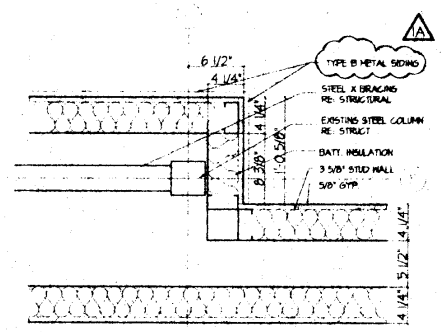


7 DETAIL
SCALE: 1 1/2" = 1'-0"

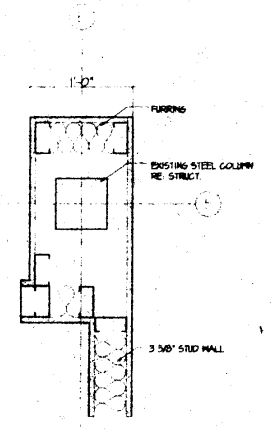


6 DETAIL
SCALE: 1 1/2" = 1'-0"

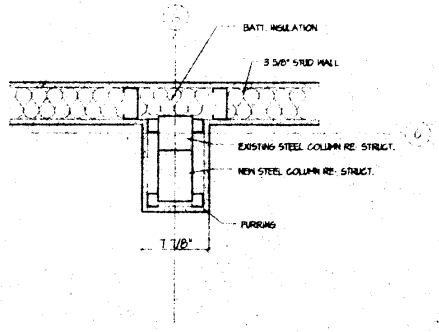
10 NOT USED
SCALE: 1 1/2" = 1'-0"



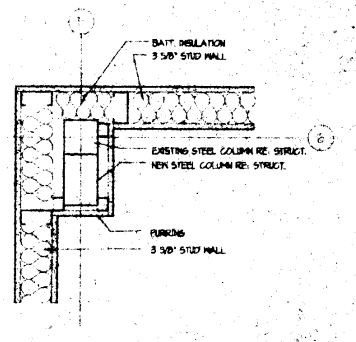
4 DETAIL
SCALE: 1 1/2" = 1'-0"



3 DETAIL
SCALE: 1 1/2" = 1'-0"



2 DETAIL
SCALE: 1 1/2" = 1'-0"



1 DETAIL
SCALE: 1 1/2" = 1'-0"

5 NOT USED
SCALE: 1 1/2" = 1'-0"

P:\DRAWINGS\A8-20.dwg Thu Apr 26 09:41:48 2001

SINK COMBS DETHLEFS

ISSUED/REVISIONS	DATE
SCHEMATIC DESIGN	6-08-00
PROGRESS PRINT	8-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
1A ADDENDUM #2	3-28-01
2A BULLETIN #	4-09-01
FINAL CONSTRUCTION SET	4-26-01

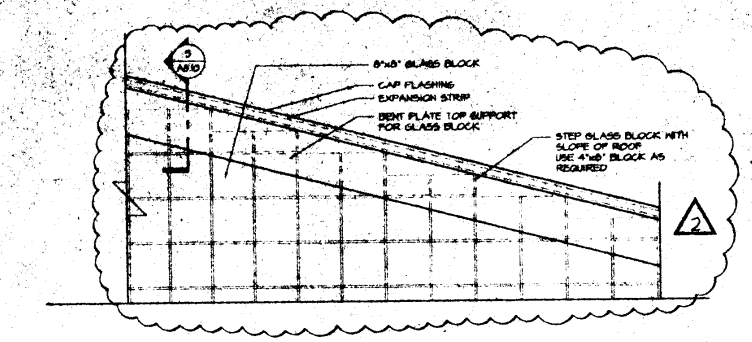
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

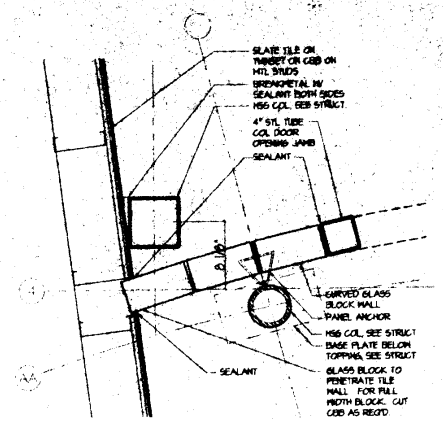
PLAN DETAILS

Drawn by:
Checked by:

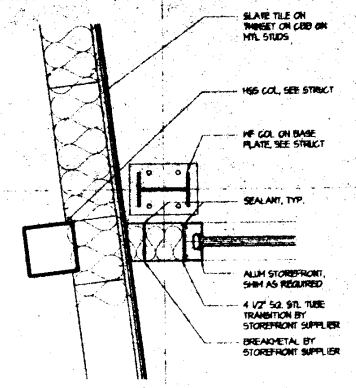
A8.20



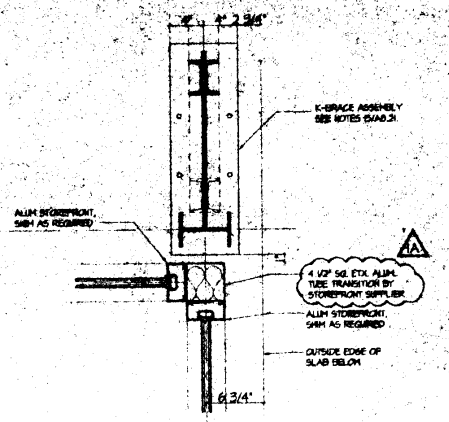
19 ELEVATION @ GLASS BLOCK CAP
SCALE: 1" = 1'-0"



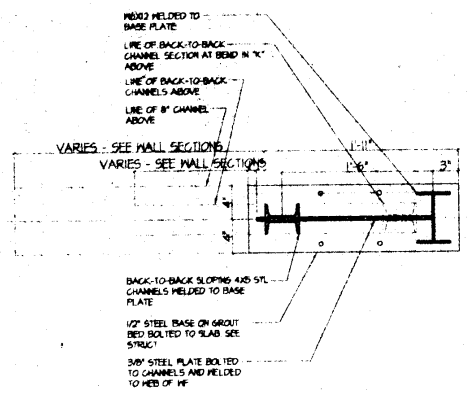
18 DETAIL
SCALE: 1 1/2" = 1'-0"



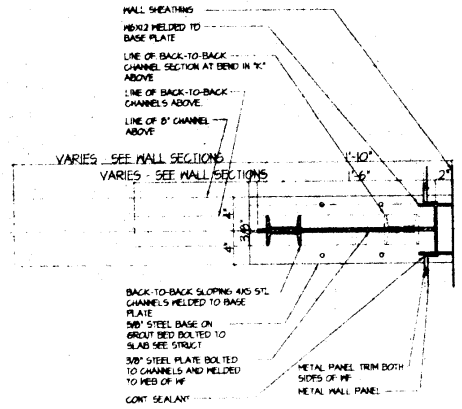
17 DETAIL
SCALE: 1 1/2" = 1'-0"



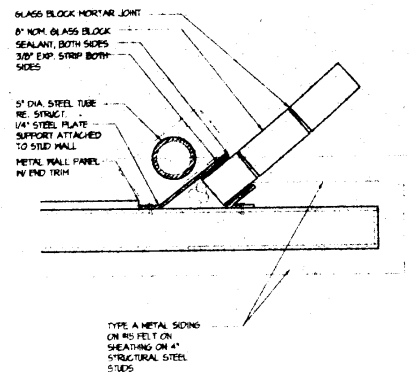
16 DETAIL
SCALE: 1 1/2" = 1'-0"



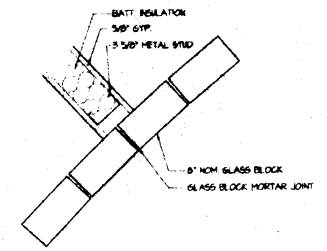
15 DETAIL
SCALE: 1 1/2" = 1'-0"



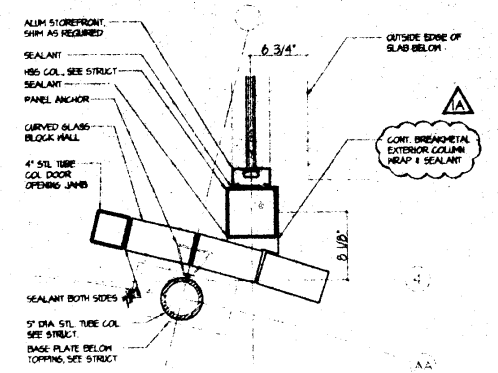
14 DETAIL
SCALE: 1 1/2" = 1'-0"



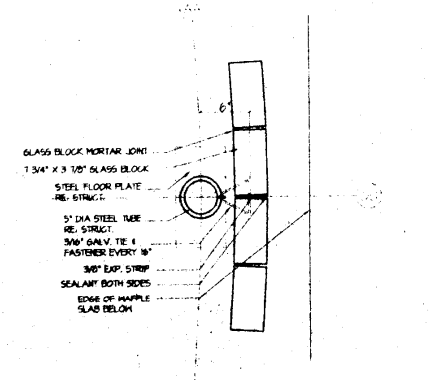
13 DETAIL
SCALE: 1 1/2" = 1'-0"



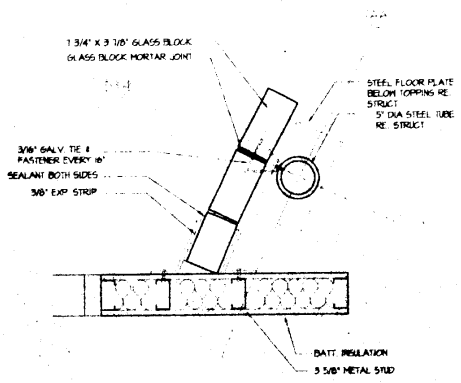
12 DETAIL
SCALE: 1 1/2" = 1'-0"



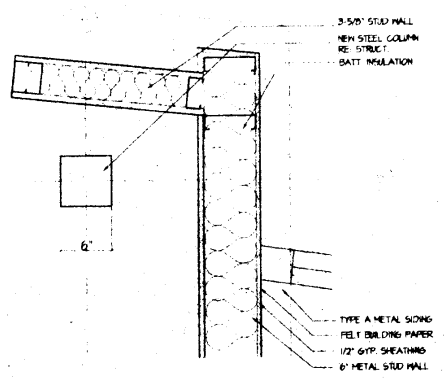
11 DETAIL
SCALE: 1 1/2" = 1'-0"



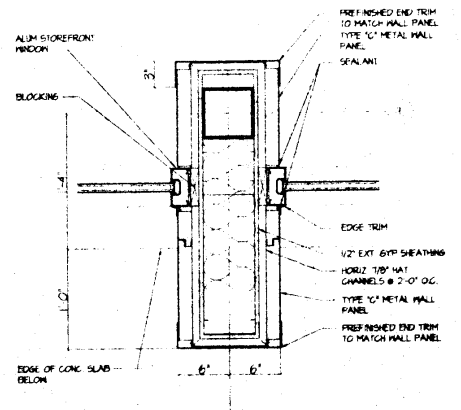
10 DETAIL
SCALE: 1 1/2" = 1'-0"



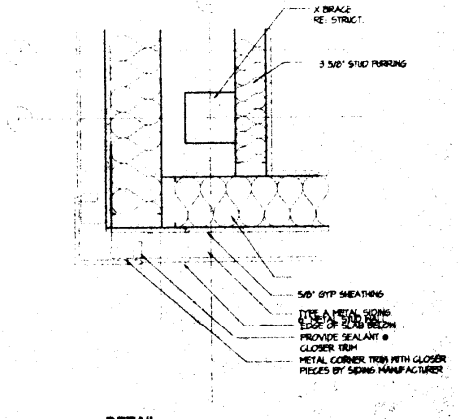
9 DETAIL
SCALE: 1 1/2" = 1'-0"



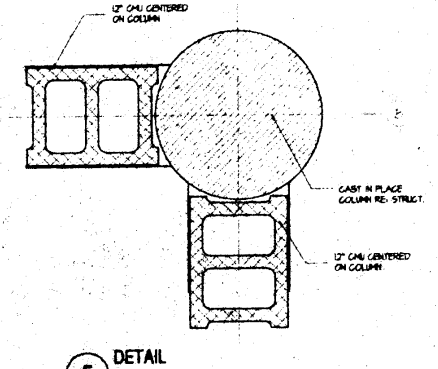
8 DETAIL
SCALE: 1 1/2" = 1'-0"



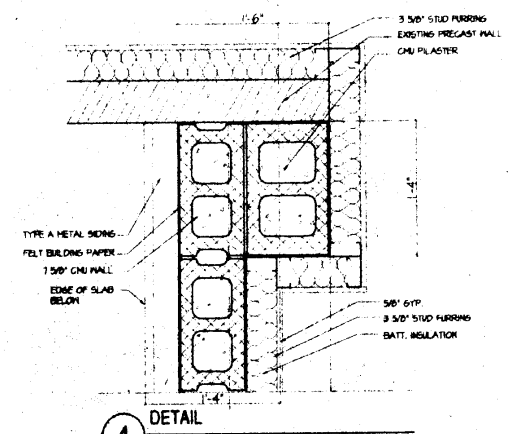
7 DETAIL
SCALE: 1 1/2" = 1'-0"



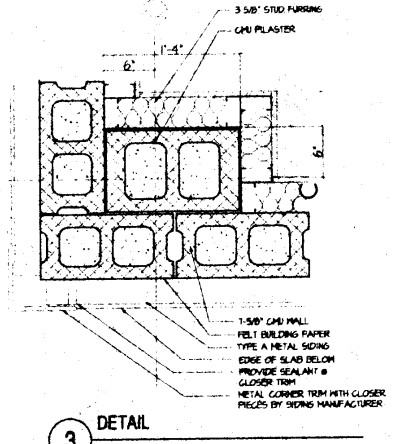
6 DETAIL
SCALE: 1 1/2" = 1'-0"



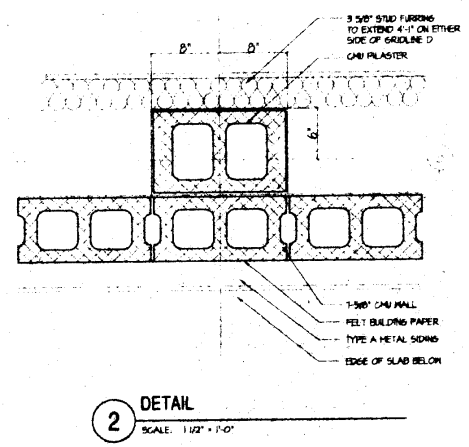
5 DETAIL
SCALE: 1 1/2" = 1'-0"



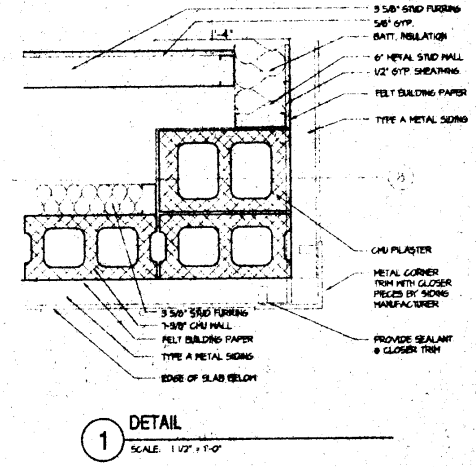
4 DETAIL
SCALE: 1 1/2" = 1'-0"



3 DETAIL
SCALE: 1 1/2" = 1'-0"



2 DETAIL
SCALE: 1 1/2" = 1'-0"



1 DETAIL
SCALE: 1 1/2" = 1'-0"

SINK COMBS DETHLEFS

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	4-08-00
PROGRESS PRINT	11-30-00
DESIGN DEVELOPMENT	12-19-00
STEEL IND REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
ADDENDUM #2	5-25-01
BULLETIN #	6-29-01
FINAL CONSTRUCTION SET	7-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

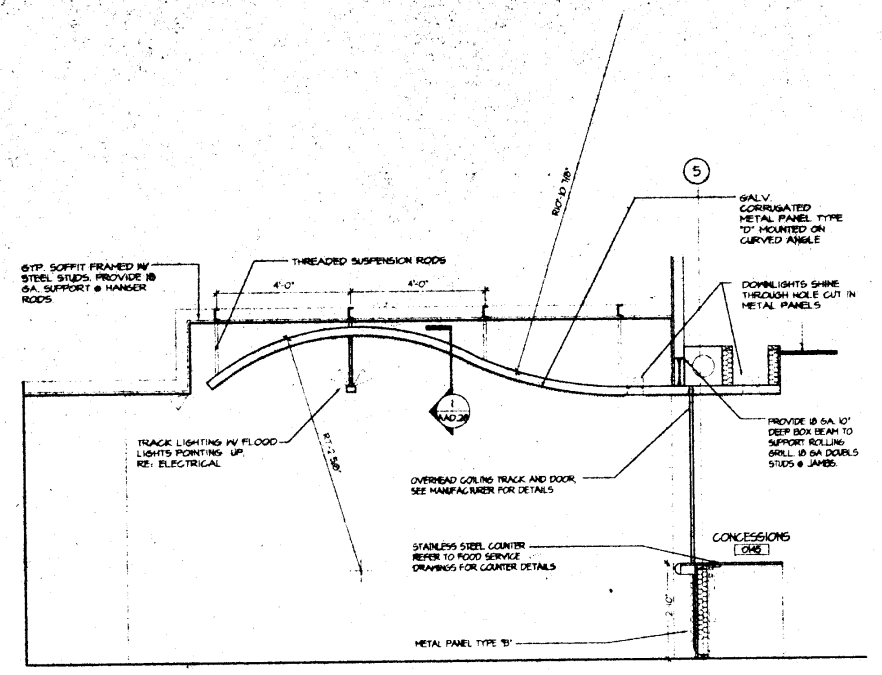
SCD Project No. 9924

PLAN DETAILS

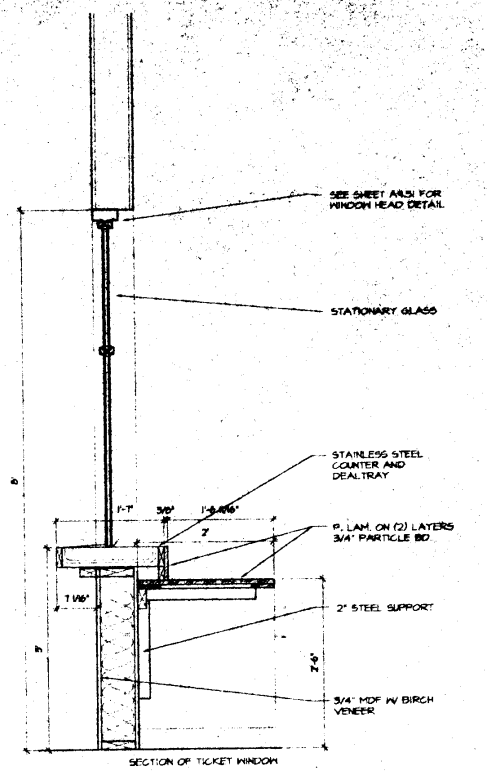
Drawn by:
Checked by:

A8.21

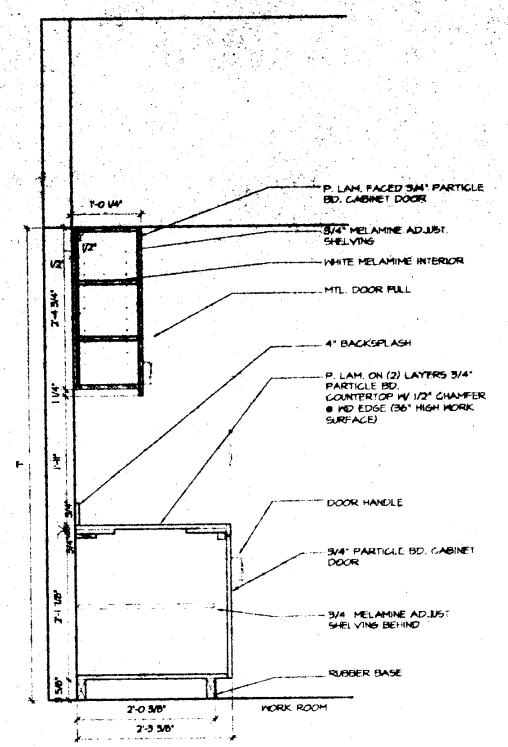
P:\9924\Cad\9924a8 21.dwg Thu Apr 05 08:42:32 2001



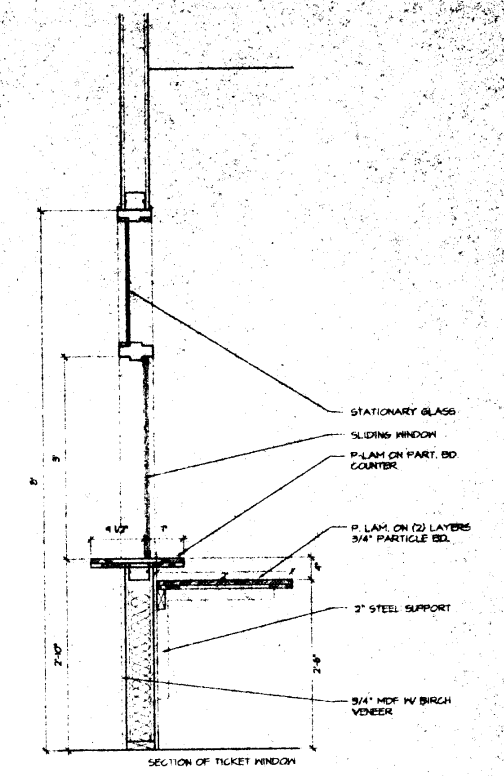
10 CONCESSION STAND



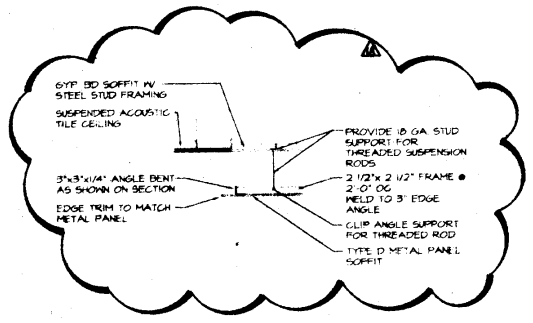
9 TICKET (106) WINDOW



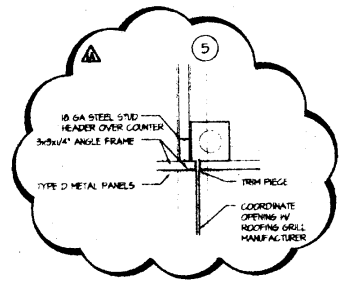
8 WORK COUNTER & CABINETS



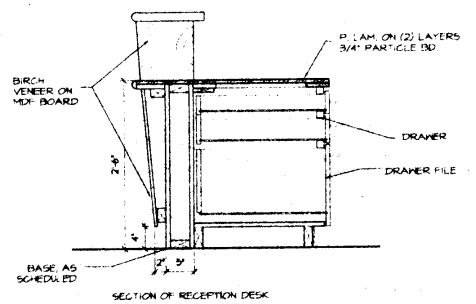
7 TICKET (104) WINDOW



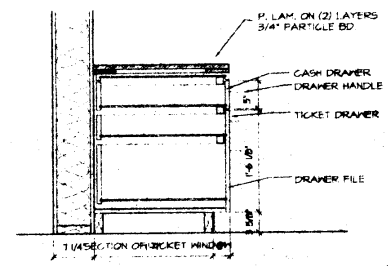
6B SECTION AT PANEL EDGE



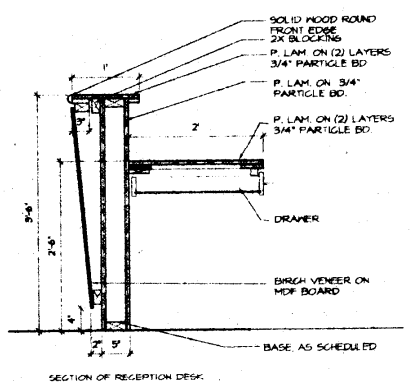
6A DETAIL OF GRILL AT CONCESSION STAND



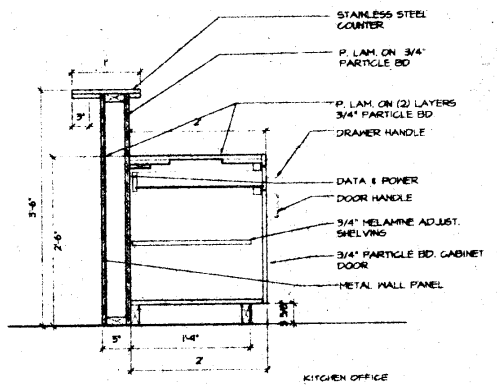
6 RECEPTION DESK



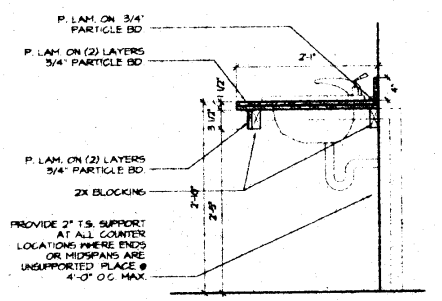
5 TICKET (106) COUNTER



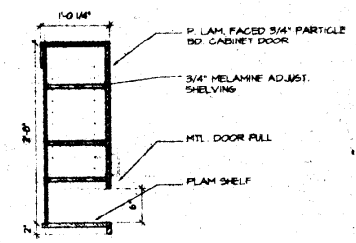
4 RECEPTION DESK



3 KITCHEN OFFICE COUNTER



2 TYPICAL VANITY COUNTER



1 COPIER CABINET

SINK COMBS DETHLEFS
A Professional Corporation
Architects

Issues/Revisions	Dates
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	9-22-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
ADDENDUM #2	5-26-01
FINAL CONSTRUCTION SET	6-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

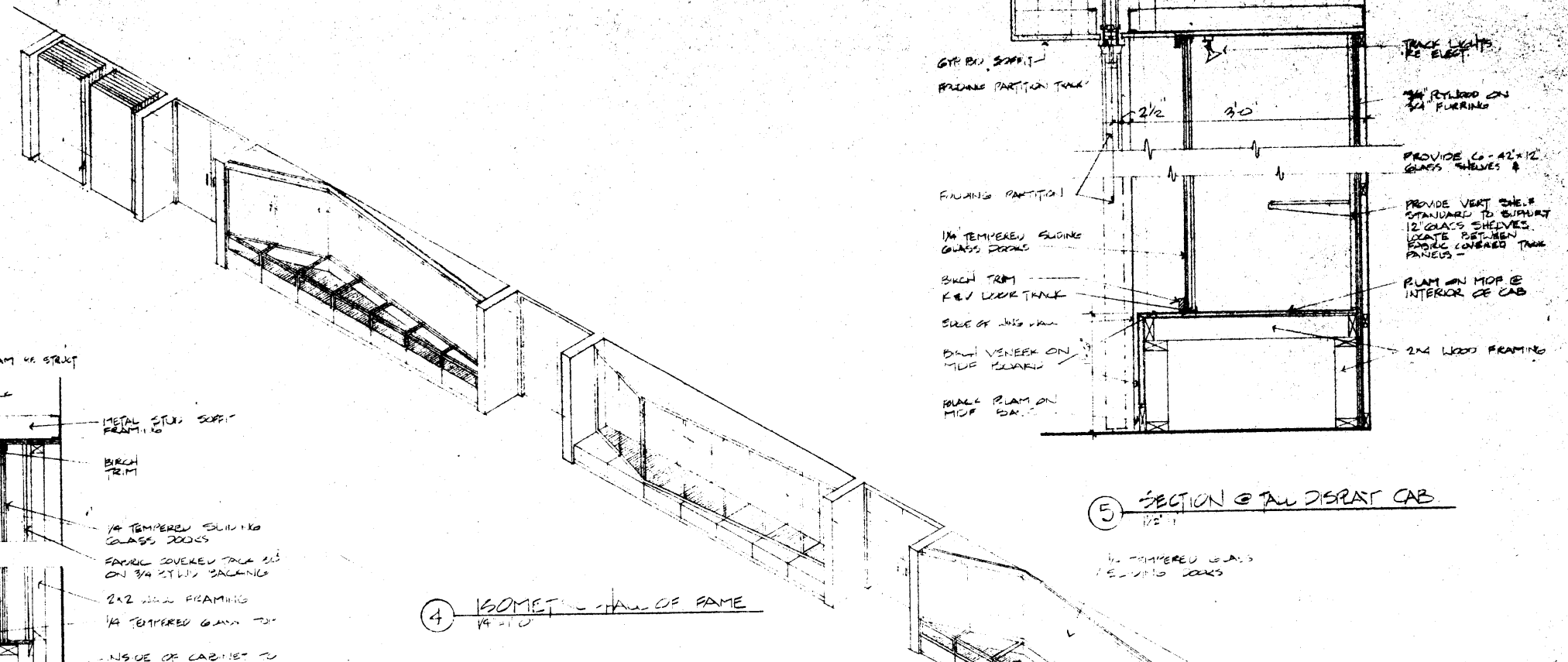
SCD Project No.: 9924

CASEWORK DETAILS

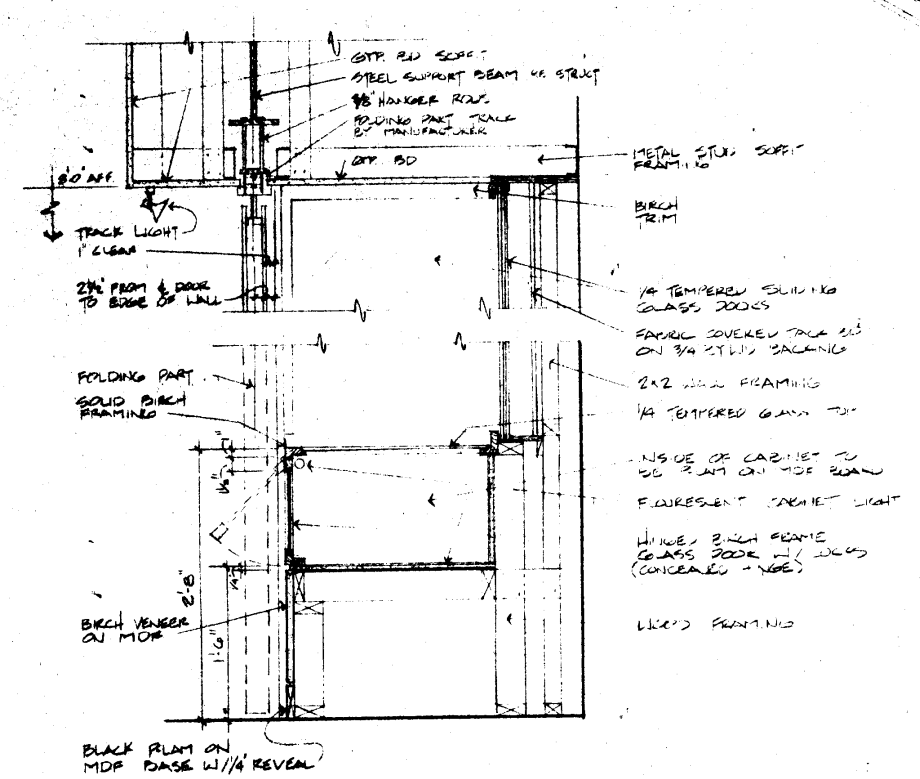
Drawn by:
Checked by:

A9.10

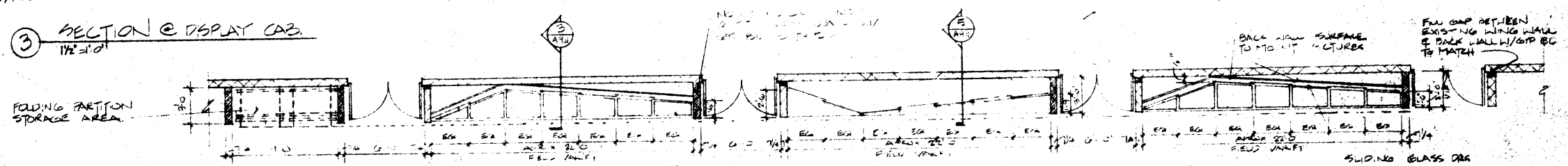
P:\2000\Dwg\02A9-10.dwg Thu Apr 26 08:43:28 2001



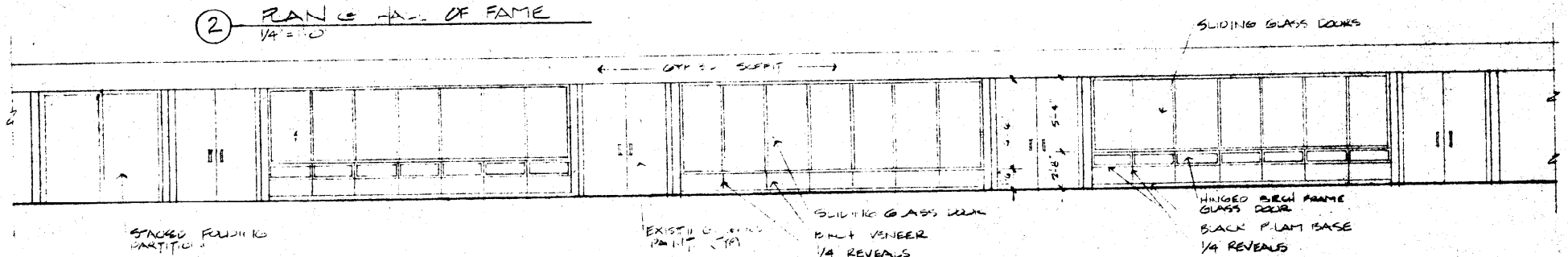
4 ISOMET - HALL OF FAME
1/4" = 1'-0"



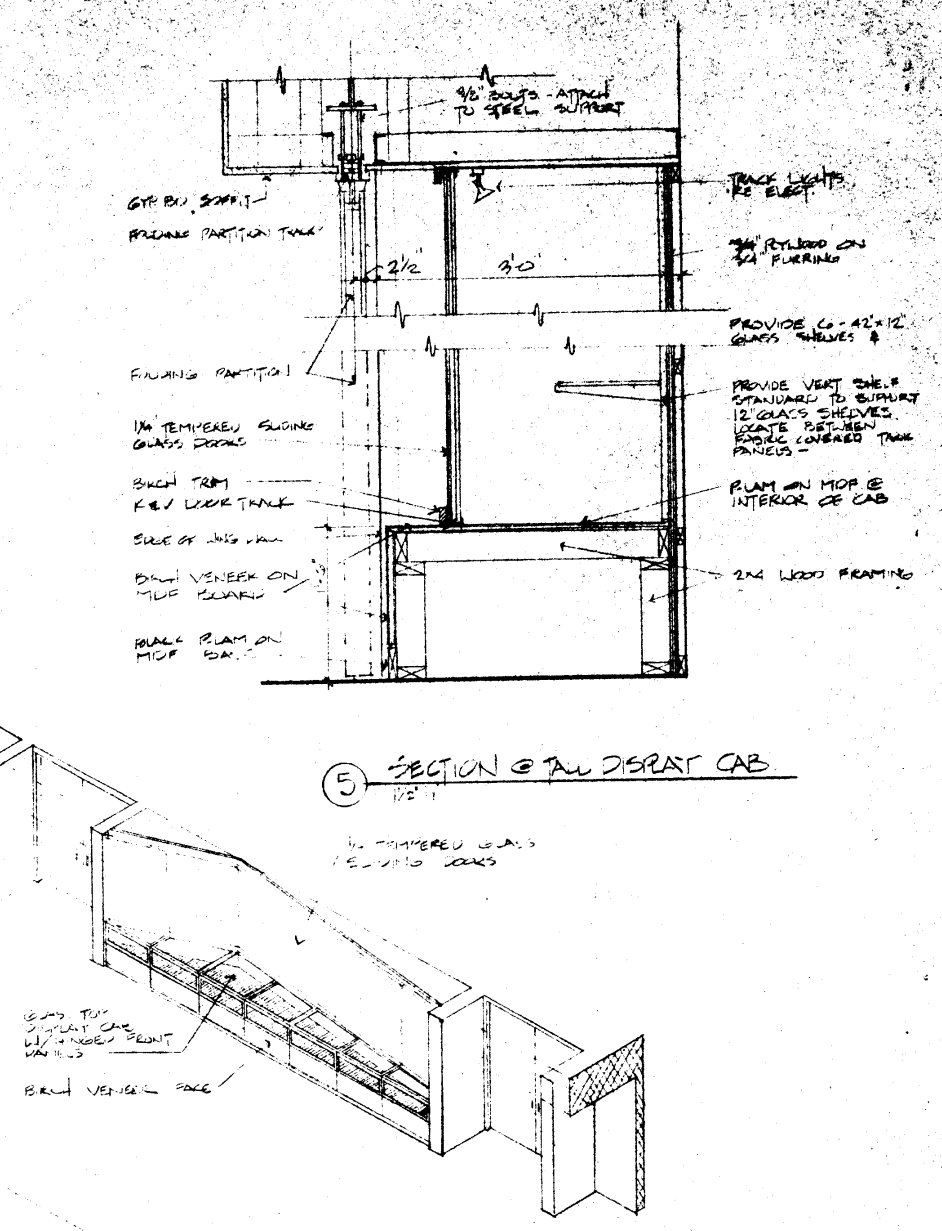
3 SECTION @ DISPLAY CAB.
1 1/2" = 1'-0"



2 PLAN @ HALL OF FAME
1/4" = 1'-0"



1 ELEVATION @ HALL OF FAME
1/4" = 1'-0"



5 SECTION @ TALL DISPLAY CAB
1" = 1'-0"

SINK COMBS DETAIL

FINAL CONST SET 5/26/04
CONST DOC 3/10/04

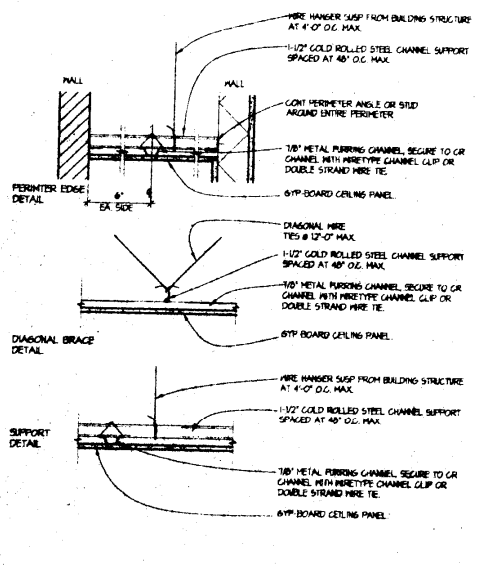
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SGO Project No.: 1024

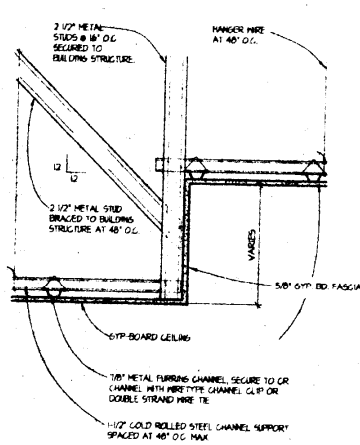
CASEWORK DETAILS

Drawn by
Checked by

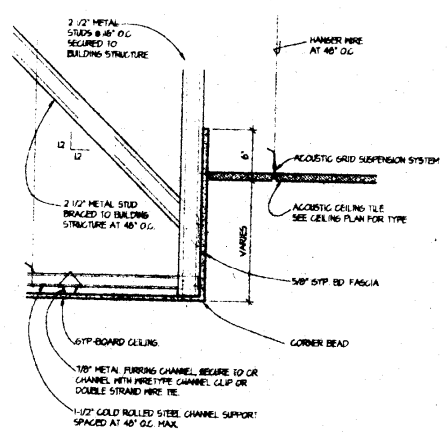
A9.11



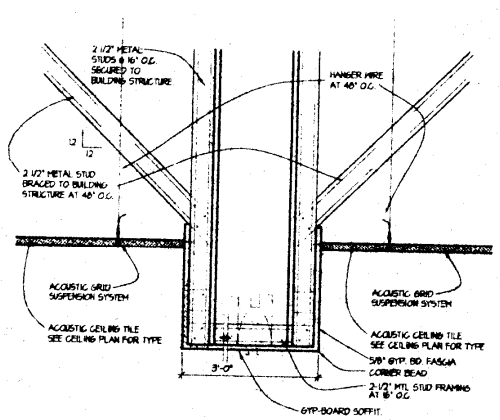
5 SUSPENSION SYSTEM AT GYP-BOARD
SCALE: 1 1/2" = 1'-0"



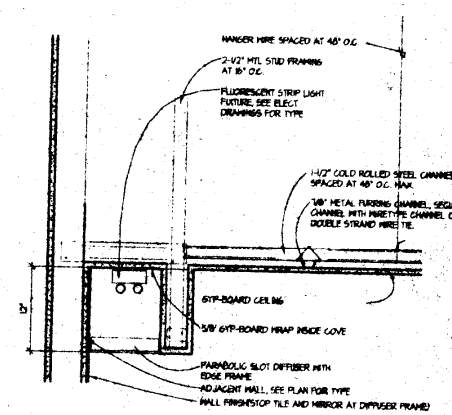
4 SOFFIT- GYP BOARD/ GYP. BOARD
SCALE: 1 1/2" = 1'-0"



3 SOFFIT- GYP BOARD/ ACT
SCALE: 1 1/2" = 1'-0"



2 RECEPTION LIGHT COVE
SCALE: 1 1/2" = 1'-0"



1 RESTROOM LIGHT COVE
SCALE: 1 1/2" = 1'-0"

6 GYP BOARD CEILING CONTROL JOINT
SCALE: 1 1/2" = 1'-0"

ISSUES/REVISION	DATE
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	9-30-00
DESIGN DEVELOPMENT	12-15-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	3-9-01
FINAL CONSTRUCTION SET	3-30-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No. 9924

CEILING DETAILS

Drawn by:
Checked by:

A9.20

P:\99\Work\924ad1-20.dwg Thu Mar 15 08:44:21 2001

50 CONCRETE MASONRY UNIT WALL

NOTE: NOMINAL BLOCK DIMENSIONS UNFINISHED OR PAINTED SEE ROOM FINISH SCHEDULE

WIDTH OF BLOCK

- A 4" STANDARD BLOCK
- B 6" STANDARD BLOCK
- C 8" STANDARD BLOCK
- D 10" STANDARD BLOCK
- E 12" STANDARD BLOCK
- F 4" SCORED BLOCK
- G 6" SCORED BLOCK
- H 8" SCORED BLOCK
- I NOT USED
- J 10" SCORED BLOCK
- K 12" SCORED BLOCK
- L 4" GROUND FACE BLOCK
- M 6" GROUND FACE BLOCK
- N 8" GROUND FACE BLOCK
- O 10" GROUND FACE BLOCK
- P 12" GROUND FACE BLOCK
- Q 4" SPLIT FACE BLOCK
- R 6" SPLIT FACE BLOCK
- S 8" SPLIT FACE BLOCK
- T 10" SPLIT FACE BLOCK
- U 12" SPLIT FACE BLOCK
- V 4" GLAZED FACE BLOCK
- W 6" GLAZED FACE BLOCK
- X 8" GLAZED FACE BLOCK
- Y 10" GLAZED FACE BLOCK
- Z 12" GLAZED FACE BLOCK

HEAD CONDITION

1 EXTEND CMU AND SOUND INSULATION (WHERE SCHEDULED) TO STRUCTURE ABOVE
2 TERMINATE CMU AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE FINISHED CEILING
3 TERMINATE CMU AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE FINISHED CEILING - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 48" O.C.
4 TERMINATE CMU AND SOUND INSULATION (WHERE SCHEDULED) 1/4" BELOW FINISHED CEILING
5 NOT USED
6 TERMINATE CMU AT COUNTER HEIGHT
7 TERMINATE CMU AT 12'-0"

INSULATION

A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
U UNINSULATED

SHEATHING

1 DEEP RIBBED METAL PANELS

FIRE RATING

R1 1 HOUR WALL - UL# U905
R2 2 HOUR WALL - 8" BLOCK UL# U905 - 6" BLOCK UL# U906
R3 3 HOUR WALL - UL# U905
R4 4 HOUR WALL - UL# U905

54 GLASS BLOCK WALL

WIDTH OF BLOCK

- A 4" STANDARD BLOCK
- B 6" STANDARD BLOCK
- C 8" STANDARD BLOCK
- D 10" STANDARD BLOCK
- E 12" STANDARD BLOCK

HEAD CONDITION

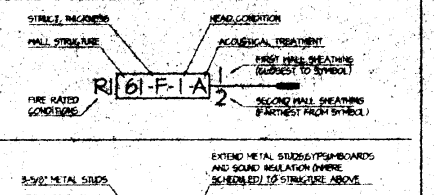
1 INSULATED CELLS

INSULATION

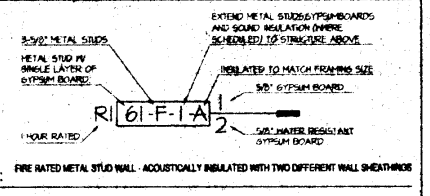
A INSULATED CELLS

FIRE RATING

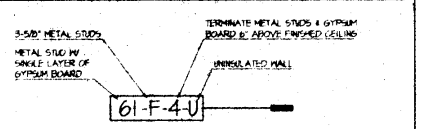
R1 1 HOUR WALL - UL# U905
R2 2 HOUR WALL - UL# U905



LEGEND

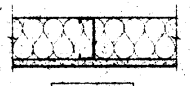


EXAMPLE 1: FIRE RATED METAL STUD WALL - ACOUSTICALLY INSULATED WITH TWO DIFFERENT WALL SHEATHINGS



EXAMPLE 2: METAL STUD WALL WITH STANDARD 5/8" GYPSUM BOARD SHEATHING BOTH SIDES

60 METAL STUD W/ SINGLE LAYER GYPSUM BOARD ONE SIDE



WIDTH OF FRAMING

- A 3/4" FURRING CHANNEL
- B 1-1/2" FURRING CHANNEL
- C 3-5/8" METAL STUDS
- D 2-1/2" METAL STUDS
- E 3-1/2" METAL STUDS
- F 3-5/8" METAL STUDS
- G 4" METAL STUDS
- H 5-1/2" METAL STUDS
- I NOT USED
- J 6" METAL STUDS
- K 7-1/4" METAL STUDS
- L 8" METAL STUDS
- M 9-1/4" METAL STUDS
- N 10" METAL STUDS
- O 11-1/2" METAL STUDS
- P 12" METAL STUDS

NOTE: TYPICAL SHEATHING - 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED

HEAD CONDITION

1 EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) TO STRUCTURE ABOVE
2 EXTEND METAL STUDS TO STRUCTURE ABOVE - TERMINATE GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - GYP. CEILINGS TERMINATE AT FINISHED CEILING
3 TERMINATE METAL STUDS, GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - GYP. CEILINGS TERMINATE AT FINISHED CEILING - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 48" O.C.
4 NOT USED
5 NOT USED
6 TERMINATE METAL STUDS AND GYPSUM BOARDS BOTH SIDES TO COUNTER HEIGHT

INSULATION

A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
U UNINSULATED

SHEATHING

1 5/8 GYPSUM BOARD
2 5/8 WATER RESISTANT GYPSUM BOARD
3 1/2 FIBEROUS ASS REINFORCED CONCRETE BOARD
4 5/8 IMPACT RESISTANT GYPSUM BOARD

FIRE RATING

61 METAL STUD W/ SINGLE LAYER GYPSUM BOARD BOTH SIDES

NOTE: TYPICAL SHEATHING - 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED

WIDTH OF FRAMING

- A
- B
- C 1-5/8" METAL STUDS
- D 2-1/2" METAL STUDS
- E 3-1/2" METAL STUDS
- F 3-5/8" METAL STUDS
- G 4" METAL STUDS
- H 5-1/2" METAL STUDS
- I NOT USED
- J 6" METAL STUDS
- K 7-1/4" METAL STUDS
- L 8" METAL STUDS
- M 9-1/4" METAL STUDS
- N 10" METAL STUDS
- O 11-1/2" METAL STUDS
- P 12" METAL STUDS

HEAD CONDITION

1 EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) TO STRUCTURE ABOVE
2 EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARD (ONE SIDE) TO STRUCTURE ABOVE - TERMINATE OTHER SIDE OF GYPSUM BOARD 6" ABOVE ACT CEILINGS - GYP. CEILINGS TERMINATE AT FINISHED CEILING
3 EXTEND METAL STUDS TO STRUCTURE ABOVE - TERMINATE BOTH SIDES OF GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - GYP. CEILINGS TERMINATE AT FINISHED CEILING
4 TERMINATE METAL STUDS, BOTH SIDES OF GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - GYP. CEILINGS TERMINATE AT FINISHED CEILING - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 48" O.C.
5 TERMINATE METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) AT FINISHED CEILING
6 TERMINATE METAL STUDS AND GYPSUM BOARDS BOTH SIDES @ COUNTER HEIGHT

INSULATION

A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
U UNINSULATED

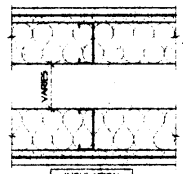
SHEATHING

1 5/8 GYPSUM BOARD
2 5/8 WATER RESISTANT GYPSUM BOARD
3 1/2 FIBEROUS ASS REINFORCED CONCRETE BOARD
4 5/8 IMPACT RESISTANT GYPSUM BOARD
5 1" RIGID FIBERBOARD (TYP. 10 SHAFT WALL)

FIRE RATING

R1 1 HOUR WALL
R2 2 HOUR WALL
R3 3 HOUR WALL

63 METAL STUD CHASE WALL W/ SINGLE OR DOUBLE LAYERS OF GYPSUM BOARD BOTH SIDES



WIDTH OF FRAMING BOTH SIDES

- A
- B
- C 5/8" METAL STUDS
- D 2-1/2" METAL STUDS
- E 3-1/2" METAL STUDS
- F 3-5/8" METAL STUDS
- G 4" METAL STUDS
- H 5-1/2" METAL STUDS
- I NOT USED
- J 6" METAL STUDS
- K 7-1/4" METAL STUDS
- L 8" METAL STUDS

HEAD CONDITION

1 EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) TO STRUCTURE ABOVE
2 EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARD (ONE SIDE) TO STRUCTURE ABOVE - TERMINATE OTHER SIDE OF GYPSUM BOARD 6" ABOVE ACT CEILINGS - GYP. CEILINGS TERMINATE AT FINISHED CEILING
3 EXTEND METAL STUDS TO STRUCTURE ABOVE - TERMINATE BOTH SIDES OF GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - GYP. CEILINGS TERMINATE AT FINISHED CEILING - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 48" O.C.
4 TERMINATE METAL STUDS, BOTH SIDES OF GYPSUM BOARD AND SOUND INSULATION (WHERE SCHEDULED) 6" ABOVE ACT CEILINGS - GYP. CEILINGS TERMINATE AT FINISHED CEILING - BRACE WALL DIAGONALLY TO STRUCTURE ABOVE @ 48" O.C.

INSULATION

A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
U UNINSULATED

SHEATHING

1 5/8 GYPSUM BOARD
2 5/8 WATER RESISTANT GYPSUM BOARD
3 1/2 FIBEROUS ASS REINFORCED CONCRETE BOARD
4 5/8 IMPACT RESISTANT GYPSUM BOARD

FIRE RATING

R1 1 HOUR WALL - UL# U420
R2 2 HOUR WALL - UL# U420

65 METAL C-T / C-H STUD SHAFT WALL

NOTE: TYPICAL SHEATHING - GYPSUM BOARD PANELS (SHAFT SIDE) TO GYPSUM BOARD (FLOOR SIDE) UNLESS OTHERWISE NOTED

WIDTH OF FRAMING

- A 2-1/2" C-T / C-H STUD
- B 4" C-T / C-H STUD
- C 6" C-T / C-H STUD

HEAD CONDITION

1 EXTEND METAL STUDS, SOUND INSULATION (WHERE SCHEDULED) AND GYPSUM BOARDS (BOTH SIDES) TO STRUCTURE ABOVE

INSULATION

A ACOUSTIC BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
T THERMAL BATT INSULATION TO MATCH FRAMING SIZE UNLESS OTHERWISE NOTED
U UNINSULATED

SHEATHING

1 5/8" GYPSUM BOARD
2 5/8" WATER RESISTANT GYPSUM BOARD
3 1/2" FIBEROUS REINFORCED CONCRETE BOARD
4 5/8" IMPACT RESISTANT GYPSUM BOARD
5 1" RIGID FIBERBOARD (TYP. 10 SHAFT WALL)

FIRE RATING

R1 1 HOUR WALL
C-H STUD UL# U465
C-T STUD UL# U428
R2 2 HOUR WALL
C-H STUD UL# U465
C-T STUD UL# U428
R3 3 HOUR WALL

2 WALL TYPES

1 ROOM FINISH SCHEDULE

MATERIAL KEY

AC	ACOUSTICAL TILE
CB	CERAMIC TILE
CPT	CARPET TILE
CT	CERAMIC TILE
EX	EXISTING TO REMAIN
GT	GLASS TILE
LVT	LUXURY VINYL TILE
QT	QUARRY TILE
RB	RUBBER BASE
SC	SEALED CONCRETE
VCT	VINYL COMPOSITION TILE
WD	WOOD

FINISH KEY

ACT	ACOUSTICAL CEILING
EX	EXISTING TO REMAIN
GB	GYPSUM BOARD
GWB	GYPSUM WALL BOARD
MET	METAL
PT	PAINT
WD	WOOD

CONNECT KEY

RB	RB OR CPT TILE DOWN

REMARKS

1. EXISTING ROOM FURNISHED OR REMAIN
2. PAINT WOOD BASE AT CARPET TO MATCH WALL
3. EXISTING WOOD BASE TO REMAIN

Room Number	Room Name	Floor M	Floor F	Floor C	Base H	Base F	Base G	North M	North H	North F	North G	East M	East H	East F	East G	South M	South H	South F	South G	West M	West H	West F	West G	Ceiling	Remarks	Room Number
SHEET A2.10																										
000	OBSTABLE	C	51		RB			GB	P			GB	P			GB	P			GB	P			T-BF		000
002	ELEVATOR EQMT ROOM	C	5					CMU	P			CMU	P			CMU	P			EX						002
003	ELECTRICAL	C	5		RB			GB	P			CMU	P			GB	P			EX						003
004	MECH/STORAGE	C	5		RB			GB	P			CMU	P			GB	P			EX						004
005	STORAGE ROOM																								12	005
008	CORRIDOR	C																		EX						
100	VESTIBULE	C	51					CB	SL			SF				GB	SL			GB	P			XT-F		100
101	LOBBY	C	51			1	GB/WLB	P		SF/GB	P		SF/MP-B	P		GB/SF	P			GB	P			XT-F		101
102	VESTIBULE	C	51					SF				GB	SL			SF				MP-B	P			XT-F		102
103	LOBBY	C	CPT		RB			GB	P			GB	P			GB/WB				AT				XT-F		103
104	RECEPTION	C	CPT		RB			GB	P			GB	P			GB	P			AT				XT-F		104
105	MORL ROOM	C	CPT		RB			GB	P			GB	P			GB	P			AT				XT-F		105
106	TICKETS	C	CPT		RB			GB	P			GB	P			GB	P			AT				XT-F		106
107	OFFICE	C	CPT		RB			GB	P			GB	P			GB	SL			AT				XT-F		107
108	OFFICE	C	CPT		RB			GB	P			GB	P			GB	SL			AT				XT-F		108
109	CONFERENCE	C	CPT		RB			GB	P			GB	P			GB	SL			AT				XT-F		109
110	CORRIDOR	C	CPT		RB			GB	P			GB	P			GB	P			AT				XT-F		110
120	CORRIDOR	C	CPT		RB			GB/WP	FRP			SF				GB/MP-B	P/MP			GB/AT	P			XT-F		120
121	SOUND																									121
122	CORR	C	CPT		RB			GB	P			GB	P			GB	P			GB	P			XT-F		122
123	EXHIBIT HALL																			ATRO				RB		123
124	STORAGE ROOM																									124
125	MEN	C	CT		MR/RB			MR/GB	CT			MR/GB	CT/FRP			MR/GB	CT/FRP			GB	P			XT-F		125
126	MEN	C	CT		MR/RB			MR/GB	CT			MR/GB	CT/FRP			MR/GB	CT/FRP			GB	P			XT-F		126
127	WOMEN	C	CT		MR/RB			MR/GB	CT			MR/GB	CT/FRP			MR/GB	CT/FRP			GB	P			XT-F		127
128	WOMEN	C	CT		MR/RB			MR/GB	CT			MR/GB	CT/FRP			MR/GB	CT/FRP			GB	P			XT-F		128
129	CORRIDOR	C	CPT					GB	P			GB	P			GB	P			AT				XT-F		129
130A	KITCHEN STORAGE	C			SR			GB	P			GB	P			GB	P			AT				XT-F		130
131	LAUNDRY	C			SR			GB	P			GB	P			GB	P			GB	P			XT-F		131
132	CORRIDOR	C	CPT		RB			GB	P			GB	P			GB	P			AT				XT-F		132
133	NOT USED																									
134	ELECTRICAL/TEL	C	5		RB			GB	P			GB	P			GB	P			GB	P			XT-F		134
135	CORR	C	CPT		RB			GB	P			GB	P			GB	SL			AT				XT-F		135
136	VESTIBULE	C	XT		RB			GB	P			SF				GB	P			GB	P			XT-F		136
137	MEETING ROOM	C	CPT		RB			GB	P			GB	P			GB	P			ATRB	P			XT-F		137
138	STORAGE ROOM	C	XT		RB			GB	P			GB	P			GB	P			EX	P					138
139A	STORAGE	C	RB		RB			GB	P			GB	P			GB	P			AT				XT-F		
139B	STORAGE	C	RB		RB			GB	P			GB	P			GB	P			AT				XT-F		
140	KITCHEN	C	QT		RB			SP				GB	FRP			GB	FRP			VT				XT-F		140
141	DISH STORAGE	C	QT		RB			GB	FRP			GB	FRP			GB	FRP			VT				XT-F		141
142	RESTROOM	C	CT		MR/RB			MR/GB	CT			MR/GB	CT			MR/GB	CT			GB	P			XT-F		142
143	LOUNGE	C	CPT		RB			GB	P			GB	P			GB	P			AT				XT-F		143
144	OFFICE	C	XT		MR/RB			MR/GB	PE			MR/GB	PE			MR/GB	PE			VT				XT-F		144
145	CONFERENCE	C	XT		MR/RB			MR/GB	FRP			MR/GB	FRP			MR/GB	FRP			VT				XT-F		145
146	LOUNGE	C	XT		MR/RB			MR/GB	PE			MR/GB	PE			MR/GB	PE			VT				XT-F		146
147	RESTROOM	C	CT		MR/RB			MR/GB	CT			MR/GB	CT			MR/GB	CT			GB	P			XT-F		147
148	DISH STORAGE	C	QT		MR/RB			MR/GB	FRP			MR/GB	FRP			MR/GB	FRP			VT				XT-F		148
149	DISH ROOM	C	QT		MR/RB			MR/GB	FRP			MR/GB	FRP			MR/GB	FRP			VT				XT-F		149

GENERAL NOTES:

1. ALL SHEATHING 5/8" GYP
2. EXISTING PRECAST WALL W/ 1/8" FURRING ON WEST SIDE AND 2-1/2" FURRING ON EAST SIDE
3. EXISTING PRECAST WALL W/ 1 1/2" FURRING ON EAST SIDE

SINK COMBS DETHLEFS
A Professional Corporation 1512 Larimer Street, Suite 300 Denver, Colorado 80202
720 926 3700 720 926 3707

Issues/Revisions:	Date
SCHEMATIC DESIGN	9-08-00
PROGRESS PRINT	9-22-00
DESIGN DEVELOPMENT	12-15-00
SPEC. BID REFERENCE	1-26-01
PROGRESS SET	3-16-01
CONSTRUCTION DOCUMENTS	3-30-01
ADDENDUM #2	5-08-01
FINAL CONSTRUCTION SET	7-06-01

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

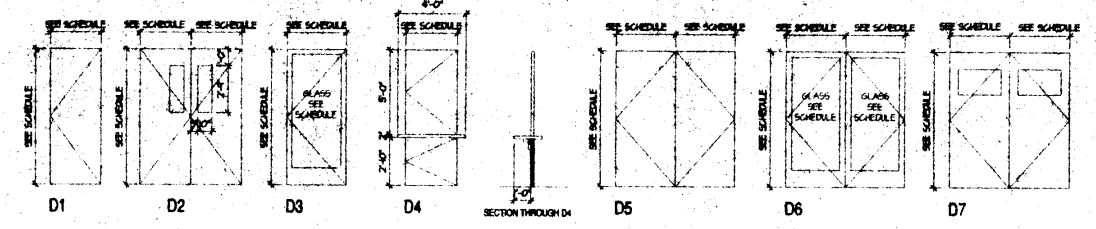
SCD Project No: 9924

WALL TYPES/ ROOM FINISH SCHEDULE

Drawn by:
Checked by:

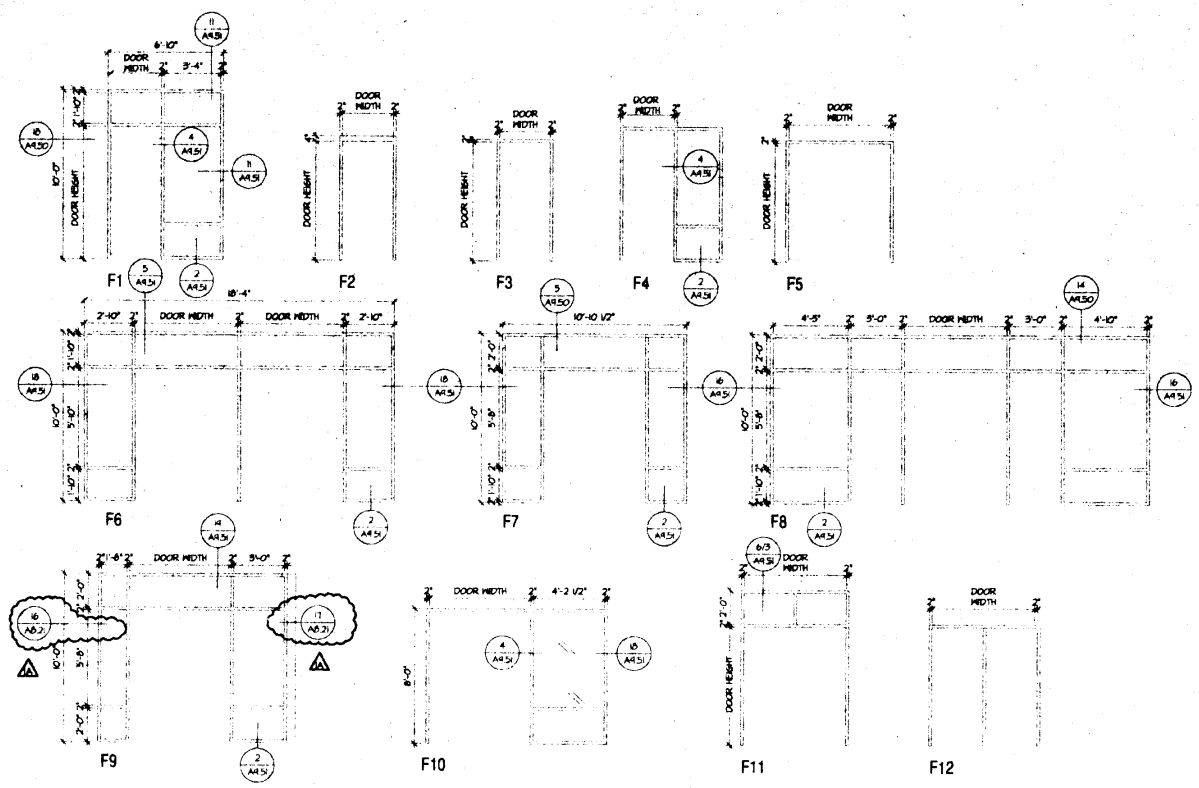
A9.30

P:\9924\dwg\924wt-39.dwg Thu Apr 26 08:46:50 2001



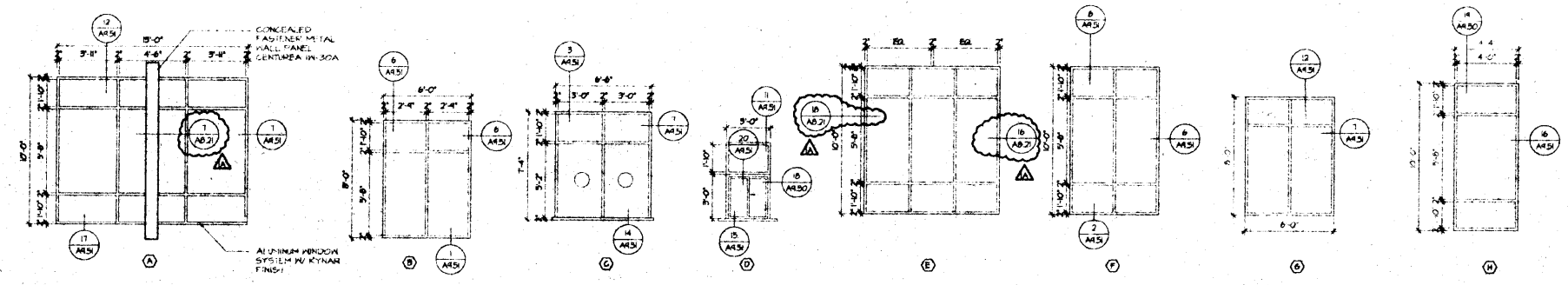
4 DOOR TYPES

1/4"=1'-0"



3 DOOR FRAMES

1/4"=1'-0"



2 WINDOW ELEVATIONS

1/4"=1'-0"

DOOR & FRAME SCHEDULE

ROOM NUMBER	ROOM NAME	DOOR OPENING #	DOOR TYPE	DOOR MATL.	NOMINAL SIZE WD.	NOMINAL SIZE HT.	FRAME THICKNESS	FRAME FIRE RATING	FRAME TYPE	FRAME MATL.	HDWE SET/GRP. JAMB	HDWE SET/GRP. HEAD	HDWE SET/GRP. SILL	HDWR SET	QTY.	PAIR	NOTES	STOP FL.	REMARKS	ROOM NUMBER
FLOOR PLAN SHEET A2.21 / A2.22																				
PARKING LEVEL																				PARKING LEVEL
001	VESTIBULE	001A	01	ALUM	3'-0"	7'-0"	1 3/4"		F2	ALUM	40AM30J	40AM30J	36AM30J	6					40 MIL SLATE	001
002	ELEV. EQUIP. ROOM	002A	01	HM	3'-0"	7'-0"	1 3/4"		F2	HM	36AM30J	36AM30J	36AM30J	7						002
003	ELECTRICAL	003A	01	HM	3'-0"	7'-0"	1 3/4"		F2	HM	36AM30J	36AM30J	36AM30J	8					1 HOUR RATING	1 003
		003B	01	HM	3'-0"	7'-0"	1 3/4"		F2	HM	36AM30J	36AM30J	36AM30J	9					HOSE BIBBS	
004	MECH / STOR	004A	01	HM	3'-0"	7'-0"	1 3/4"		F2	HM	36AM30J	36AM30J	36AM30J	8						004
		004B	01	HM	3'-0"	7'-0"	1 3/4"		F2	HM	36AM30J	36AM30J	36AM30J	9						
005	STORAGE (S)	005A																		005
006	CORRIDOR																			006
PLAZA LEVEL																				PLAZA LEVEL
100	VESTIBULE	100A	03	ALUM	3'-0"	7'-10"	1 3/4"		F8	ALUM	40AM30J	40AM30J	36AM30J	6						100
		100B	03 PR	ALUM	3'-0"	7'-10"	3/4"		F8	ALUM	40AM30J	40AM30J	36AM30J	1						
		100C	03	ALUM	3'-0"	7'-10"	3/4"		F8	ALUM	40AM30J	40AM30J	36AM30J	7						
101	LOBBY	101A	04 PR	ALUM	3'-0"	7'-0"	3/4"		F1	ALUM	40AM30J	40AM30J	36AM30J	8					AUTO DOOR OPENER	101
		101B	04 PR	ALUM	3'-0"	7'-10"	3/4"		F6	ALUM	40AM30J	40AM30J	36AM30J	6						
		101C	04 PR	ALUM	3'-0"	7'-10"	3/4"		F6	ALUM	40AM30J	40AM30J	36AM30J	8						
		101D	01	HM	3'-0"	7'-0"	3/4"		F1	ALUM	40AM30J	40AM30J	36AM30J	5						
102	VESTIBULE	102A	04 PR	ALUM	3'-0"	7'-10"	3/4"		F8	ALUM	40AM30J	40AM30J	36AM30J	8						102
103	LOBBY																		AIRO DOOR OPENER	103
104	RECEPTION																		1 HOUR RATING	104
105	WORK ROOM	105A	01	HM	3'-0"	7'-0"	1 3/4"		F3	HM	36AM30J	36AM30J		4						105
106	TOILETS	106A	01	HM	3'-0"	7'-0"	1 3/4"		F3	HM	36AM30J	36AM30J		4						106
		106B	01	HM	3'-0"	7'-0"	1 3/4"		F3	HM	36AM30J	36AM30J		4						
107	OFFICE	107A	01	HM	3'-0"	7'-0"	1 3/4"		F3	HM	36AM30J	36AM30J		4						107
108	OFFICE	108A	01	HM	3'-0"	7'-0"	1 3/4"		F3	HM	36AM30J	36AM30J		4						108
109	CONFERENCE	109A	01	HM	3'-0"	7'-0"	1 3/4"		F3	HM	36AM30J	36AM30J		4						109
110	CORRIDOR																			110
120	CORRIDOR	120A	01	HM	3'-6"	10'-0"	1 3/4"		F5	HM	36AM30J	36AM30J		10						120
		120B	01	HM	3'-6"	7'-10"	1 3/4"		F5	HM	36AM30J	36AM30J		10						
		120C																		
		120D																		
		120E																		
		120F																		
		120G	01	HM	3'-0"	7'-0"	3/4"				EXISTING									
		120H	01	HM	3'-0"	7'-0"	3/4"				EXISTING									
121	SOUND	121A																		
122	COATS	122A																		122
123	DISHES HALL	123A	05	HP	3'-0"	7'-0"	3/4"		F5	HM	40AM30J	40AM30J	36AM30J	14						123
		123B																		123
		123C																		
		123D																		
		123E																		
124	STORAGE ROOM	124A																		
		124B																		
		124C																		
125	MEN	125A	05	HP	3'-0"	7'-0"	3/4"		F3	HM	36AM30J	36AM30J		14						125
126	MEN	126A	05	HP	3'-0"	7'-0"	3/4"		F3	HM	36AM30J	36AM30J		14						126
127	WOMEN	127A	05	HP	3'-0"	7'-0"	3/4"		F3	HM	36AM30J	36AM30J		14						127
128	WOMEN																			128
130	CORRIDOR	130A	06	ALUM	6'-0"	7'-10"	3/4"		F10	ALUM	60AM30J	60AM30J		6					VISION PANEL	130
		130B	02	HM	3'-0"	7'-0"	1 3/4"		F3	HM	36AM30J	36AM30J		5						
		130C	05	HP	3'-0"	7'-0"	1 3/4"		F5	HM	36AM30J	36AM30J		12						
		130D	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		12						
		130E																		
130A	KITCHEN STORAGE	130AA	01	HP	3'-0"	7'-0"	3/4"		F8	HM	36AM30J	36AM30J		4						130A
130	LAUNDRY	130A	01	HP	3'-0"	7'-0"	3/4"		F9	HM	36AM30J	36AM30J		4						130
132	CORRIDOR	132A	01	HP	3'-0"	7'-0"	3/4"		F9	HM	36AM30J	36AM30J		4						132
		132B																		
		132C	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		10						
		132D	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132E	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132F	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132G	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132H	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132J	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132K	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132L	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132M	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132N	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132P	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132Q	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132R	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132S	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132T	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132U	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132V	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132W	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132X	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132Y	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132Z	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AA	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AB	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AC	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AD	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AE	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AF	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AG	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AH	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AJ	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AK	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AL	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AM	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AN	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AP	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AQ	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AR	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AS	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AT	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AU	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AV	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AW	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AX	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AY	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132AZ	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BA	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
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		132BC	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BD	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BE	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BF	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
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		132BP	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BQ	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BR	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BS	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BT	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BU	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BV	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BW	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BX	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BY	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132BZ	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CA	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CB	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CC	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CD	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CE	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CF	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CG	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CH	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CJ	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
		132CK	01	HP	3'-0"	7'-0"	3/4"		F5	HM	36AM30J	36AM30J		1						
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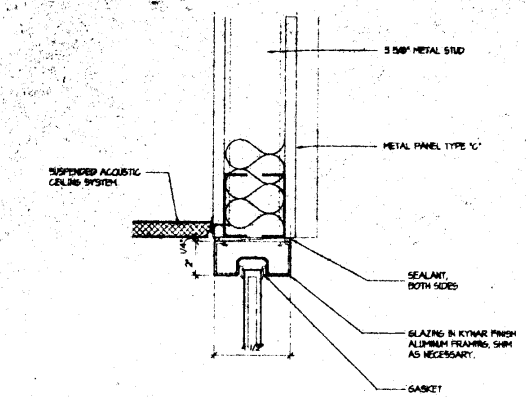
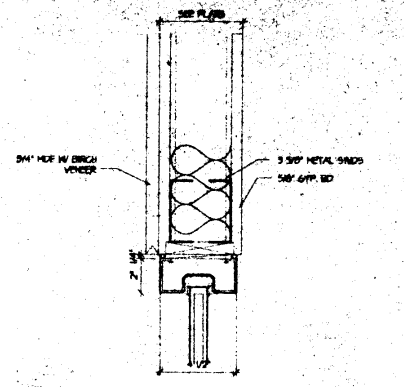


19 HEAD AT WINDOW TYPE G
SCALE: 3" = 1'-0"



18 JAMB @ TICKET WINDOW
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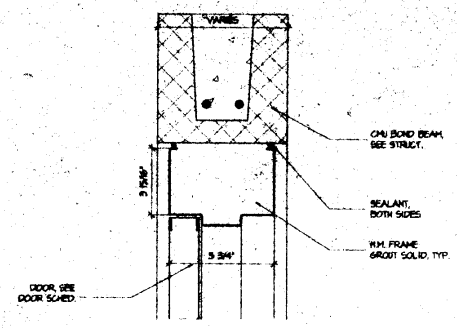

17 H.M. DOOR HEAD DETAIL
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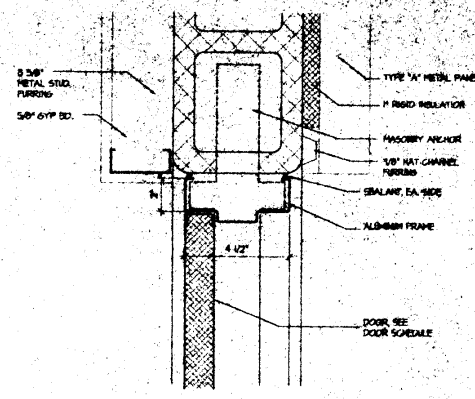
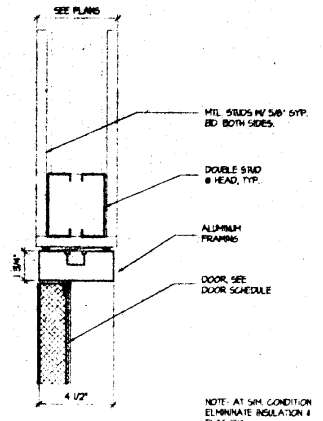
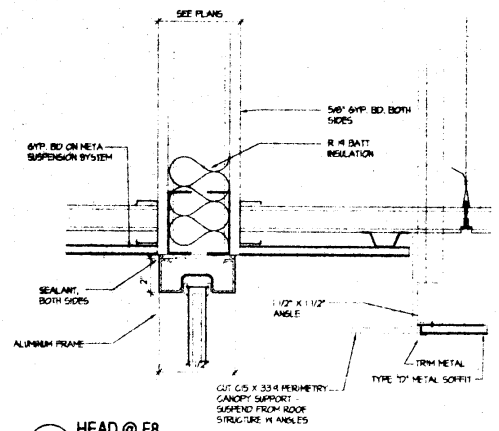


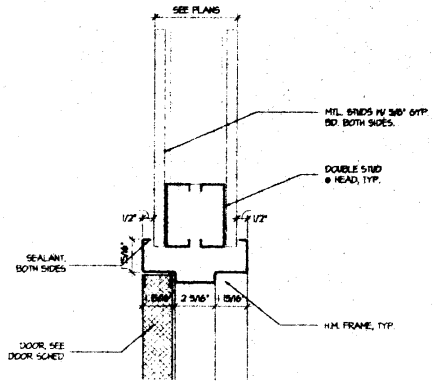
16 HEAD/ JAMB @ F4
SCALE: 3" = 1'-0"



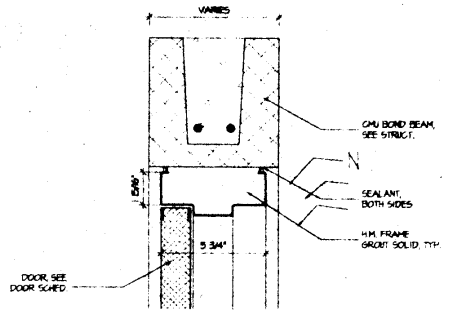
15 ALUM. DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



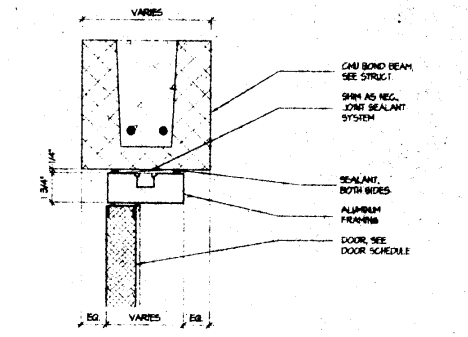
14 HEAD @ F8
SCALE: 3" = 1'-0"



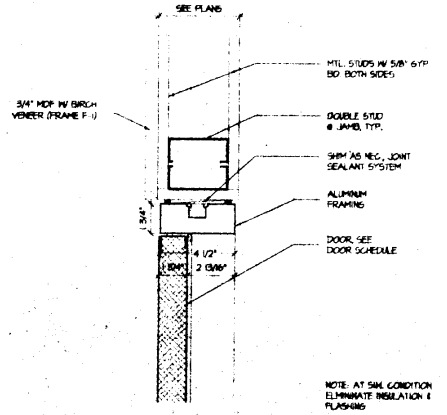
13 H.M. DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



12 H.M. DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



11 ALUM. DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



10 ALUM. DOOR JAMB DETAIL
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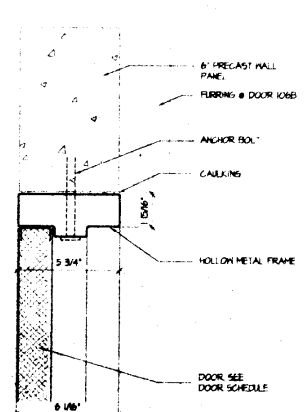

9 H.M. DOOR JAMB/HEAD DETAIL
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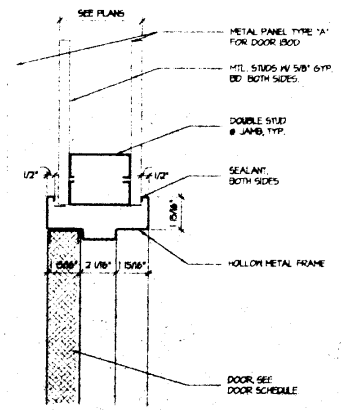

8 H.M. DOOR JAMB DETAIL
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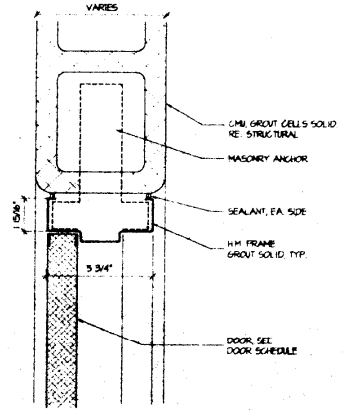

7 H.M. DOOR JAMB DETAIL
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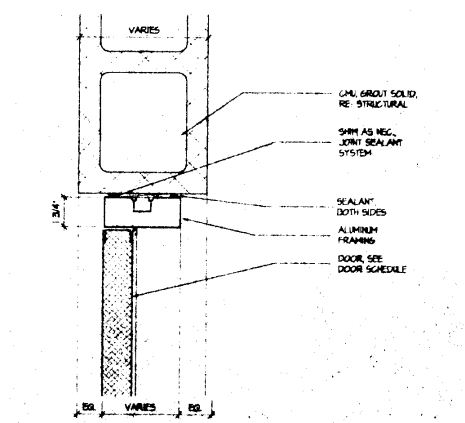

6 ALUM. DOOR JAMB DETAIL
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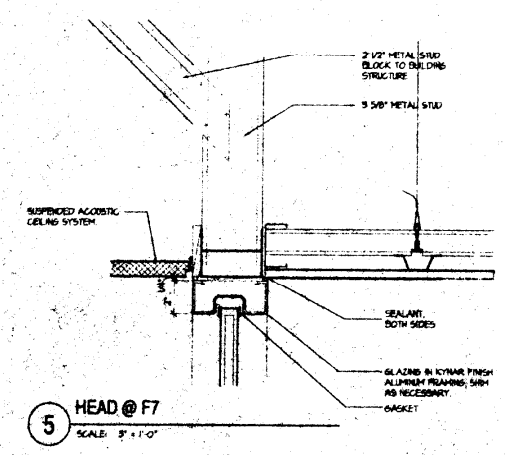
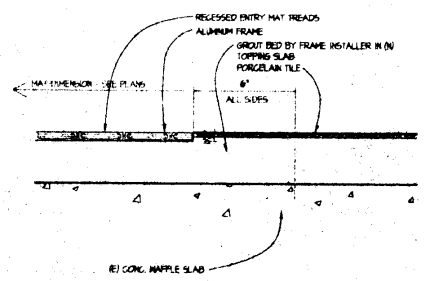


5 HEAD @ F7
SCALE: 3" = 1'-0"



4 ENTRY MAT DETAIL
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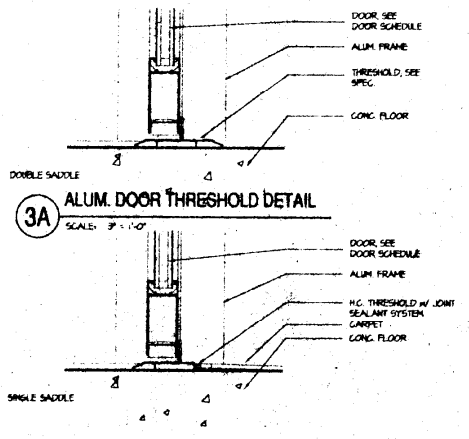
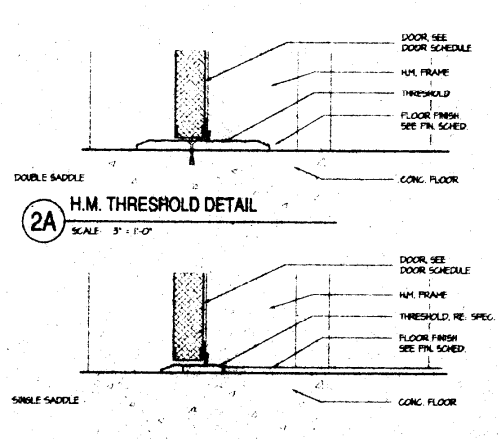


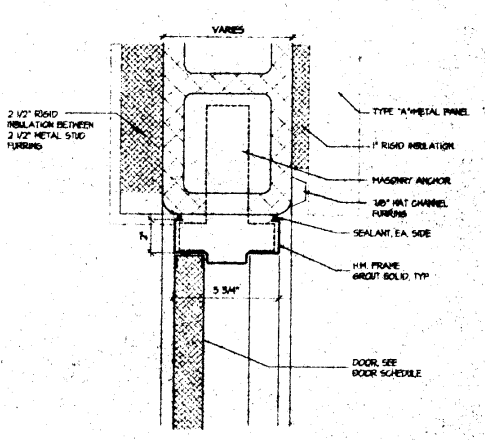
3A ALUM. DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"

3 ALUM. DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"



2A H.M. THRESHOLD DETAIL
SCALE: 3" = 1'-0"

2 H.M. THRESHOLD DETAIL
SCALE: 3" = 1'-0"



1 HEAD JAMB @ DOOR 001A
SCALE: 3" = 1'-0"

SINK COMBS DETHLEFS

ISSUE/REVISIONS:	DATE:
SCHEMATIC DESIGN	4-20-00
PROGRESS PRINT	6-30-00
DESIGN DEVELOPMENT	12-5-00
STEEL BID REFERENCE	1-26-01
PROGRESS SET	2-16-01
CONSTRUCTION DOCUMENTS	5-8-01
FINAL CONSTRUCTION SET	6-26-01

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

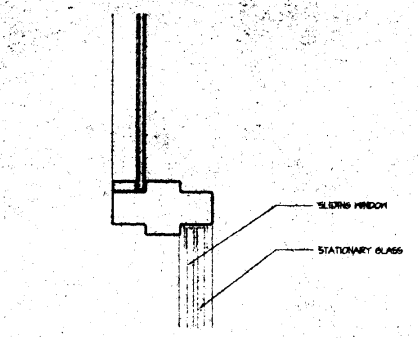
SCD Project No.: 9824

DOOR & WINDOW DETAILS

Drawn by:
Checked by:

A9.50

P:\9800's\9824\9824-50.dwg Thu Apr 05 08:52:32 2001



20 TICKET WINDOW HEAD DETAIL
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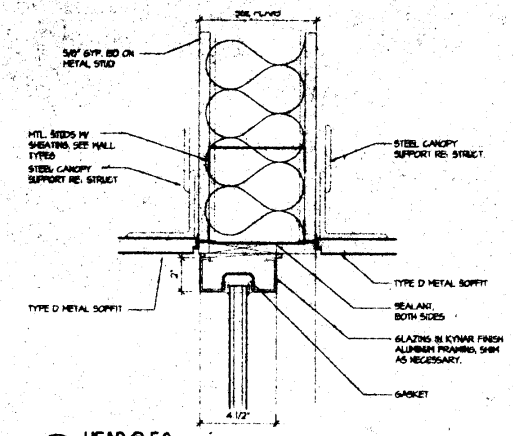

19 HEAD @ F 9
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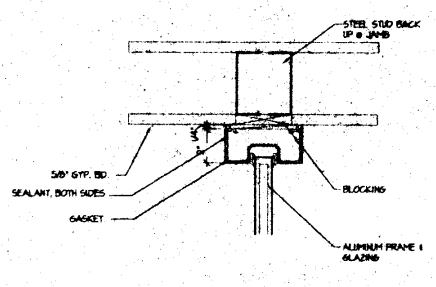

18 ALUM. WINDOW & GYP WALL
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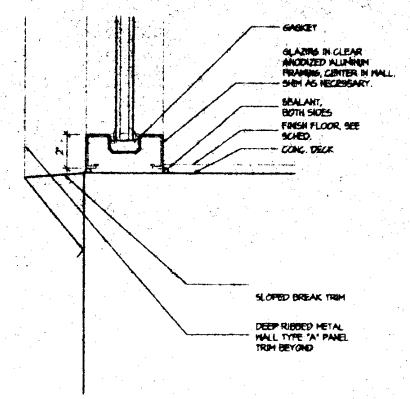
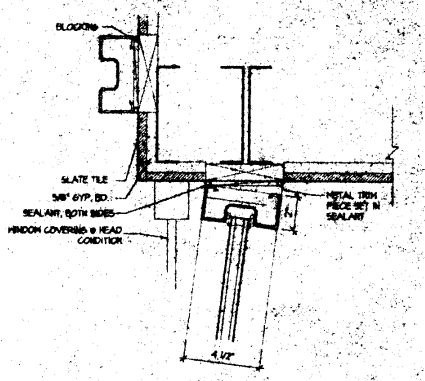
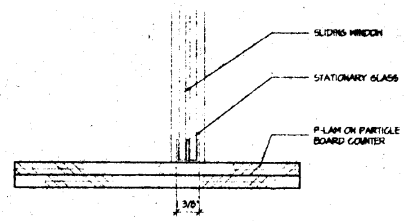


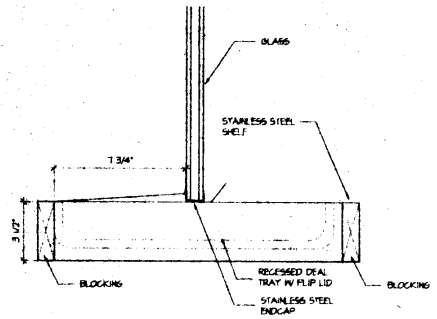
17 ALUM. WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



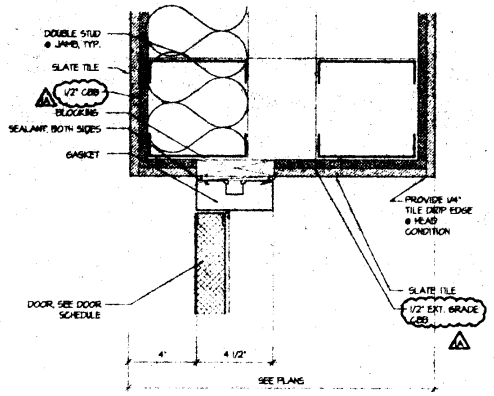
16 ALUM. WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



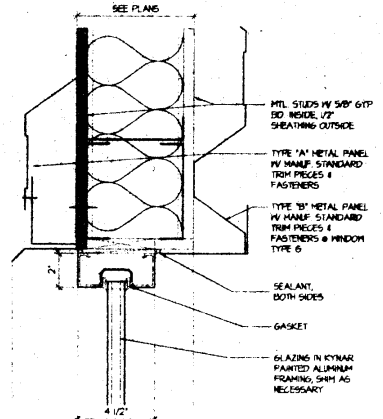
15 TICKET WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



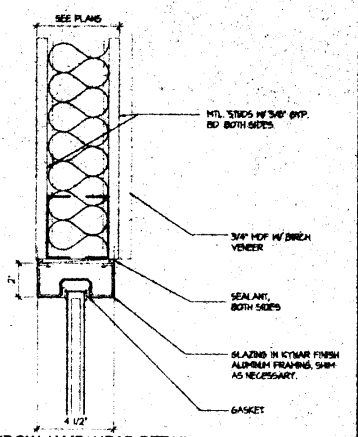
14 TICKET WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



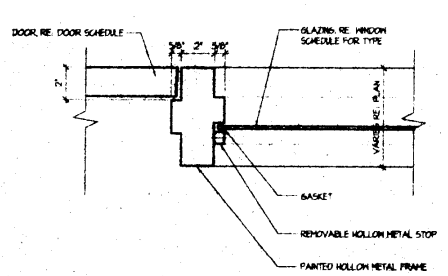
13 ALUM. JAMB DETAIL
SCALE: 3" = 1'-0"



12 ALUM. WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



11 ALUM. WINDOW JAMB/ HEAD DETAIL
SCALE: 3" = 1'-0"



10 H.M. DOOR JAMB DETAIL
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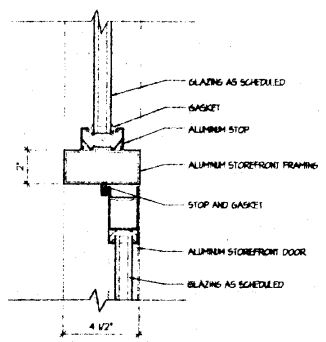

9 ALUMINUM DOOR HEAD DETAIL
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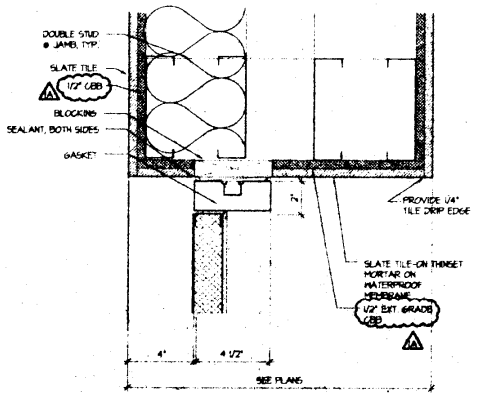
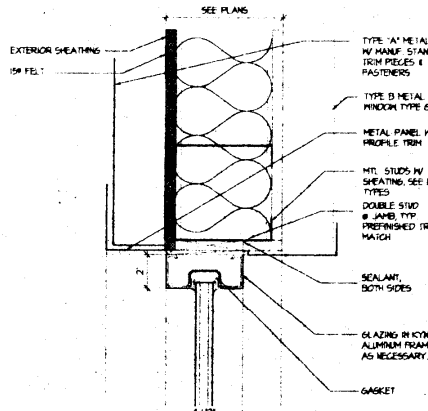


8 ALUM. DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



7 ALUM. WINDOW JAMB DETAIL
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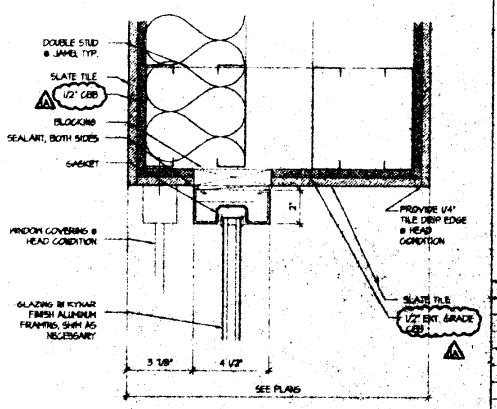
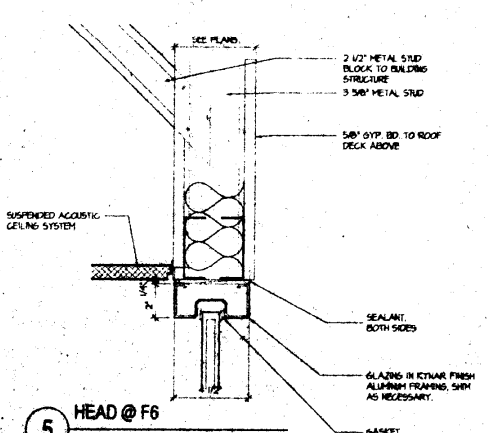
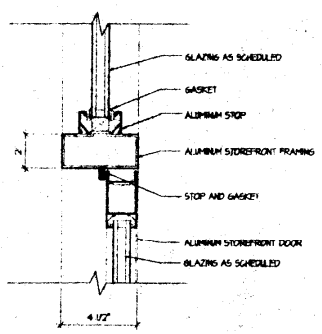


6 ALUM. JAMB / HEAD DETAIL
SCALE: 3" = 1'-0"



5 HEAD @ F6
SCALE: 3" = 1'-0"



4 ALUM. DOOR JAMB DETAIL
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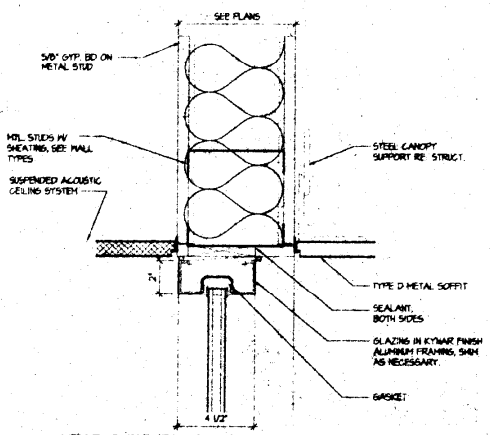
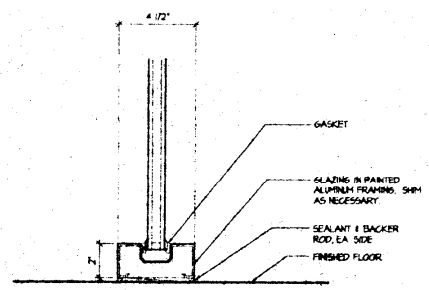
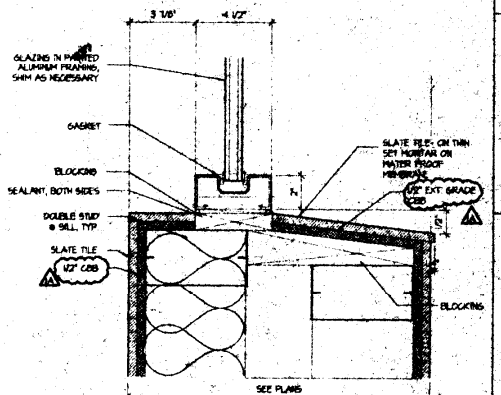


3 HEAD @ TICKET WINDOW
SCALE: 3" = 1'-0"



2 ALUM. WINDOW SILL
SCALE: 3" = 1'-0"



1 ALUM. WINDOW SILL DETAIL
SCALE: 3" = 1'-0"

P:\2004\dwg\2004-01.dwg, Thu, Apr 28, 05, 08:46:21, 2005

SIM. COMBI DETAILS

Issues/Revisions	Date
SUBMITTAL SET	4-8-05
PROGRESS PRINT	1-20-05
DESIGN DEVELOPMENT	12-15-04
STEEL TRIM REFERENCE	1-28-05
PROGRESS SET	2-18-05
CONSTRUCTION DOCUMENTS	3-18-05
ADDENDUM #2	3-28-05
FINAL CONSTRUCTION SET	4-28-05

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 99024

WINDOW DETAILS

Drawn by:
Checked by:

A9.51

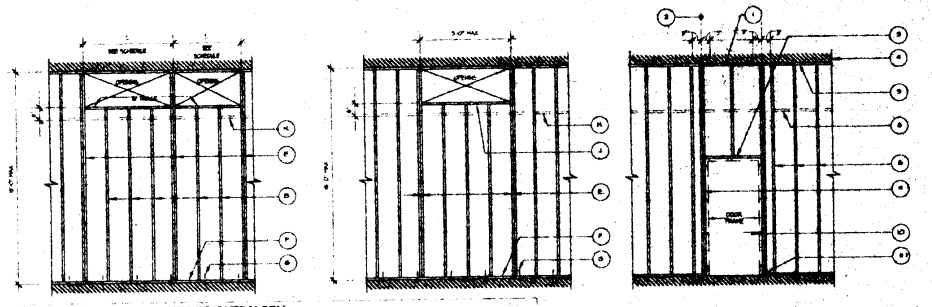
INTERIOR WALL FRAMING CRITERIA NOTES

1. ALL DIMENSIONS ARE TAKEN TO CENTERLINE OF COLUMN, FACE OF GYPSUM BOARD FINISH (F.O.F.), FACE OF CONCRETE (F.O.C.), OR FACE OF BUILDING (F.O.B.), UNLESS OTHERWISE NOTED.
2. UNLESS OTHERWISE NOTED, INTERIOR PARTITIONS SHALL BE FRAMED WITH 3-5/8" 25 GAUGE METAL STUDS 16" O/C CENTERS. METAL STUDS IN ALL PARTITION SHALL BE EXTENDED FROM FLOOR SLAB TO UNDERSIDE OF STRUCTURAL DECK (U.N.O. SEE THIS SHEET FOR TYPICAL WALL DETAILS.
3. CONTRACTOR SHALL VERIFY AND COORDINATE WALL AND FRAMING THAT REQUIRES A NON-TYPICAL WALL THICKNESS DUE TO STRUCTURAL, ELECTRICAL, MECHANICAL, EQUIPMENT, OR OTHER REQUIREMENTS.
4. WHERE EQUIPMENT OR CABINETS ARE SHOWN TO BE RECESSED IN OR MOUNTED OR WITHIN ONE 2-HOUR RATED PARTITIONS, THE FINISH SURFACE SHALL BE PRIOR TO BEING CORRESPONDENTLY SEALED AND AROUND SUCH EQUIPMENT OR CABINETS, BEFORE THEIR INSTALLATION, TO MAINTAIN FIRE RATING CAVITY DEPTH.

   OR

   BACK PLASTER OR PROTECT ALL PANELS, FRAMING, AND OTHER PENETRATIONS IN PARTITIONS AND CEILING IN ORDER TO MAINTAIN REQUIRED FIRE SEPARATION AND RATED ASSEMBLIES.
5. ALL STUD SIZES SHALL BE 6" WHERE RECESSED ELECTRICAL PANEL BOXES ARE LOCATED TO NEAREST INTERSECTING WALL.
6. ON A CONTINUOUS WALL SURFACE WHERE CONSTRUCTION INVOLVES MORE THAN ONE MATERIAL FINISH, OR MATERIAL THICKNESS, ALIGN FACE OF FINISH UNLESS OTHERWISE NOTED.
7. PROVIDE CASING BEAD AT GYPSUM WALL BOARD EDGES WHEREVER EXPOSED GYPSUM BOARD ABUTS A DIFFERENT MATERIAL. TYPICAL (U.N.O.) ALL DETAIL SECTIONS. PROVIDE STANDARD GYPSUM BOARD CORNER BEAD AT ALL OUTSIDE CORNERS.
8. PROVIDE BACKED PLATES FOR ALL WALL MOUNTED EQUIPMENT. VERIFY ALL MOUNTING HEIGHTS AND SPECIAL STRUCTURAL SUPPORT REQUIREMENTS WITH EQUIPMENT MANUFACTURERS BEFORE INSTALLING BACKING PLATES AND SUPPORTS.

   PROVIDE BACKING PANELS FOR ALL RAILS, CASEWORK, COUNTERS, OR FIXTURES UNLESS NOTED OTHERWISE SEE DETAIL DRAWINGS THIS SECTION FOR TYPICAL BACKING PLATE DETAILS. AS REQUIRED BY MILLWORK TO BE SUPPORTED
9. STEEL COLUMNS ENGAGED BY PARTITIONS SHALL BE FURRED WITH THE SAME MATERIAL AS THE ADJACENT WALLS. FURRING CHANNELS SIZED AS REQUIRED MIN. 3/8" AT 16" O.C.)
10. CURVED WALLS SHALL BE FRAMED WITH STUDS AT 12" O.C.
11. ALL STUD SIZES SHALL BE 6" IN WALLS WITH PLUMBING UNLESS OTHERWISE NOTED AS A LARGER SIZE.

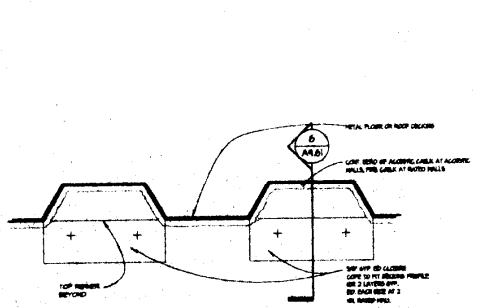


STUDS AND HEADER SCHEDULE		
'L' LENGTH	'A' STUDS	'B' TRACKS
UP TO 4'-0"	3-5/8" SCREW STUD	3-5/8" X 1-1/4" X 18 GA. TRACK CHANNEL
4'-1" TO 8'-0"	(2) 3-5/8" SCREW STUDS	3-5/8" X 1-1/4" X 18 GA. TRACK CHANNEL

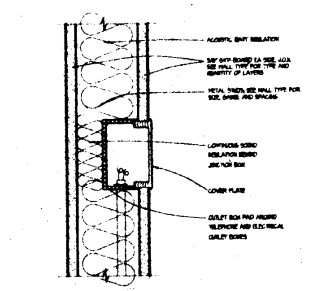
TYPICAL WALL FRAMING NOTES
A. RUN ALL STUDS FROM STRUCTURE TO STRUCTURE UNLESS OTHERWISE NOTED.
B. ALL STUDS SHALL BE 3-5/8" 25 GA. SCREW STUDS AT 16" O.C. UNLESS OTHERWISE NOTED. SEE DETAILS ELSEWHERE FOR STUDS SUPPORTING BACKING PLATES.
C. FOR BACKING PLATES, SEE DETAILS ON THIS SHEET.
D. NOT USED
E. DOUBLE 20 GA. SCREW STUDS - WELD DOUBLE STUDS TYPICALLY 3/4" AT 12" O.C.
F. 18 GA. TRACK - ATTACH BOTTOM TRACK TO ALL STUDS WITH #8 SHEET METAL SCREWS EACH SIDE.
G. 1/4" ROUND X 1-1/2" POWDER ACTUATED DRIVE PINS AT 2'-0" O.C.
H. FINISHED CEILING - SEE REFLECTED CEILING PLAN
J. 'A' STUDS

18 GA. TRACK EXTEND 12" BEYOND EACH JAMB.
2. DRIVE PINS AT 2'-0" O.C. AND 1 EA. SIDE OF JAMB.
3. FRAMING AT HEAD:
   3'-6" DOORS OR LESS - 18 GA. TRACK
   3'-6" DOORS TO 8'-0" MAX. USE 2-18 GA. TRACKS
4. FLOOR OR ROOF SYSTEM ABOVE.
5. SLIP TRACK, SEE SLIP JOINT DETAILS ON THIS SHEET.
6. CEILING - SEE REF. CEILING PLAN FOR OCCUPIES AND TYPE.
7. NOT USED
8. STUDS, SEE PLAN FOR TYPE
9. FRAMING AT JAMBS:
   3'-6" DOORS OR LESS 2-20 GA. STUDS TO STRUCT. ABOVE.
   3'-6" DOORS OR LARGER 2-16 GA. STUDS
10. HOLLOW METAL DOOR FRAME SUPPLIED WITH 14 GA. SIX "ZEE" CLIPS - 4 PER JAMB 2 AT HEAD WELDED TO FRAME. SCREWED TO STUDS WITH 2 #10 S.M.S. EACH CLIP (TYP.)
11. FLOOR TRACK DETAIL

2 PARTITION WALL FRAMING CRITERIA
SCALE: N.T.S.



8 INFILL at DECK FLUTES (PARTITION PERPENDICULAR TO RIBS)
SCALE: 3" = 1'-0"



7 SOUND ISOLATION at J-BOX (REQUIRED ALONG ACOUSTIC PARTITIONS)
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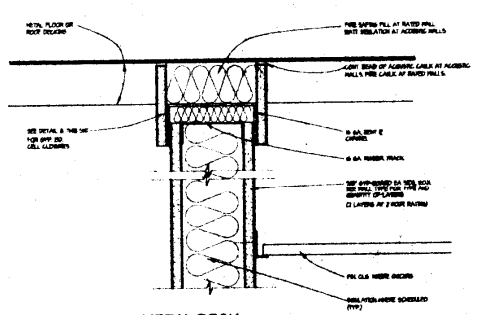
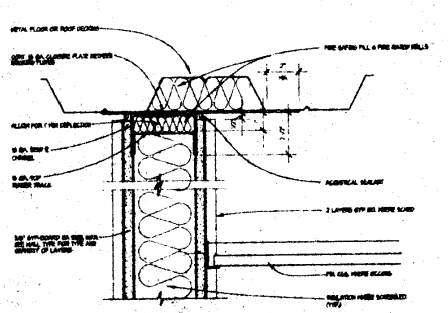
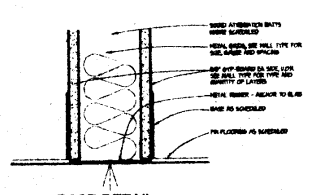


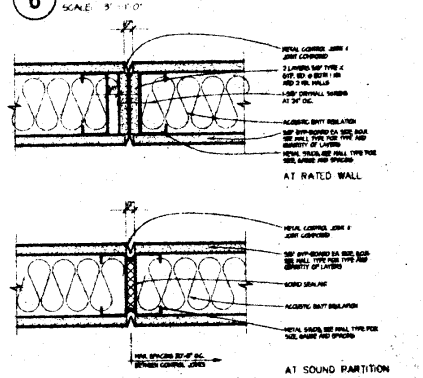
6 HEAD at METAL DECK (PARTITION PERPENDICULAR TO RIBS)
SCALE: 3" = 1'-0"



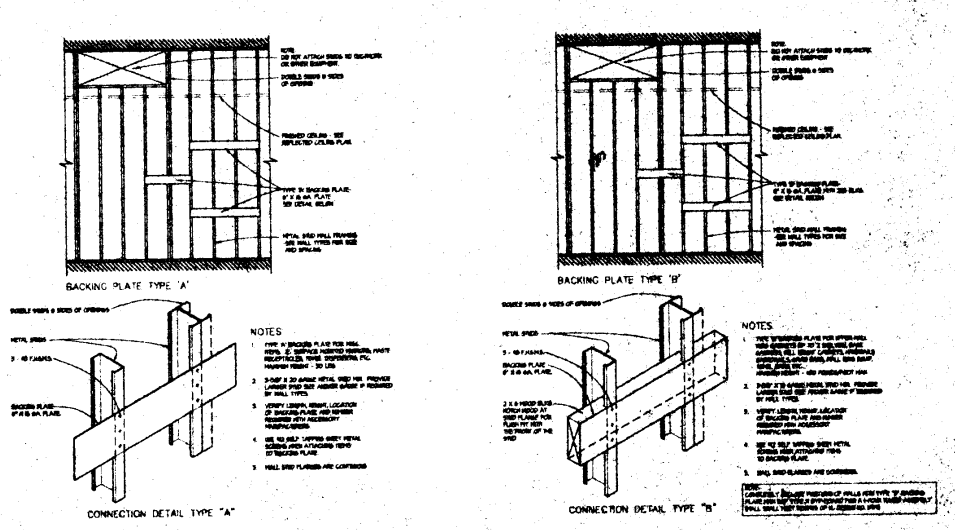
5 HEAD at METAL DECK (PARTITION PARALLEL TO RIBS)
SCALE: 3" = 1'-0"



4 BASE DETAIL
SCALE: 3" = 1'-0"



3 CONTROL JOINTS at GYP-BOARD PARTITION
SCALE: 3" = 1'-0" (PROVIDE AT ALL SLAB JOINTS)



1 BACKING PLATE CRITERIA
SCALE: N.T.S.

SINK, COMBS DETHLEFS

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	5-08-08
PROGRESS SET	6-20-08
DESIGN DEVELOPMENT	9-15-08
STEEL BID REFERENCE	1-28-09
PROGRESS SET	2-16-09
CONSTRUCTION DOCUMENTS	3-6-09
FINAL CONSTRUCTION SET	4-24-09

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 0824

PARTITION WALL FRAMING CRITERIA

Drawn by:
Checked by:

A9.61

ABBREVIATIONS

/	Per	FAB	Fabricate	PC	Precast
@	At	FIN	Finish	PEN	Penetration
AB	Anchor Bolt	FLG	Flange	PERP	Perpendicular
ADDNL	Additional	FND	Foundation	PL	Plate (Steel)
ALT	Alternate	FRAM	Framing	PREFAB	Prefabricated
APPROX	Approximate	FS	Far Side	PRELIM	Preliminary
ARCH	Architect	FT	Foot	PS	Prestressed
		FTG	Footing	PSF	Pounds Per Square Foot
BD	Board	FV	Field Verify	PSI	Pounds Per Square Inch
BLDG	Building	GALV	Galvanized	PT	Point
BM	Beam	GR	Grade	QTY	Quantity
BOT or B	Bottom	GR BM	Grade Beam		
BOS	Bottom Of Steel			RAD or R	Radius
BRG	Bearing	HD A B	Headed Anchor Bolt	RC	Reinforced Concrete
BTWN	Between	HD	Headed	REF or REFR	Refer to (Reference)
		HD A S	Headed Anchor Stud	REINF	Reinforce(ing)(x)(ment)
CC	Center to Center	HORIZ	Horizontal	REQD	Required
CG	Center of Gravity	HT	Height	REQT	Requirement
CIP	Cast-In-Place	HVAC	Heating-Ventilating		
CJ	Control Joint	ID	Inside Diameter	SCHED	Schedule
CJP	Complete Joint Penetration	IF	Inside Face	SECT	Section
CL	Centerline	IN	Inch	SIM	Similar
CLR	Clear	INT	Interior	SLH	Short Leg Horizontal
CMU	Concrete Masonry Unit			SLV	Sleeve
COL	Column	JST	Joist	SLV	Short Leg Vertical
CONC	Concrete	JT	Joint	SOG	Slab on Ground
CONN	Connection	K	Kip	SP @	Space @
CONST	Construction	L or LG	Length	SP	Space(s)
CONT	Continue or Continuous	LB or LBS	Pound(s)	SPEC	Specifications
CONTR	Contractor	LL	Live Load	SPRT	Support
CTR	Center	LLH	Long Leg Horizontal	STD	Standard
		LLV	Long Leg Vertical	STIFF	Stiffener
DAS	Deformed Anchor Stud	LONG	Longitudinal	STL	Steel
DBL	Double	LT WT	Lightweight	STR	Structural
DIA or Ø	Diameter	LT	Light	SYM	Symmetrics
DIM	Dimension				
DL	Dead Load	MACH	Machine	T & B	Top & Bottom
DN	Down	MACH RM	Machine Room	T	Top
DO	Ditto	MAS	Masonry	THK	Thick
DP	Deep	MAX	Maximum	THK	Thickness
DTL	Detail	MECH	Mechanical	TL	Total Load
DWG	Drawing	MEP	Mech/Elect/Plumb	TO	Top of
DWL	Dowel	MIN	Minimum	TOC	Top of Concrete
		MISC	Miscellaneous	TOS	Top of Steel
EA	Each	ML	Micro-Lam	TOPG	Topping
EC	Epoxy Coat(ed)	mm	Millimetre	TYP	Typical
EE	Each End	MFR	Manufacturer		
EF	Each Face	MO	Masonry Opening	ULT	Ultimate
EJ	Expansion Joint	MTL	Metal	UNO	Unless Noted Otherwise
EL	Elevation			VERT	Vertical
ELEV	Elevator	N	North	VIF	Verify in Field
ENGR	Engineer	N-S	North-South		
EQ	Equal	NIC	Not in Contract	W/O	Without
EQL SP	Equally Spaced	NO or #	Number	W/	With
EQUIP	Equipment	NTS	Not To Scale	WD	Width
ES	Each Side	NWC	Normal Weight Concrete	WP	Working Point
ESC	Escalator			WT	Weight
EW	Each Way	OC	On Center	WWF	Welded Wire Fabric
EXIST	Existing	OD	Outside Diameter	WxH	Width x Height
EXP ANCH	Expansion Anchor	OF	Outside Face		
EXP	Expansion	OH	Opposite Hand		
EXT	Exterior	OPNG	Opening		
		OPP	Opposite		

NOT ALL ABBREVIATIONS USED THIS PROJECT

LEGEND

SYMBOL		DESCRIPTION
CC-XX	=	CAST-IN-PLACE COLUMN
CW-XX	=	CAST-IN-PLACE WALL
CS-XX	=	CAST-IN-PLACE SLAB
CBL-XX	=	CAST-IN-PLACE CORBEL
CP-XX	=	CAST-IN-PLACE EMBED
T-XX / XX-XX	=	FOOT MARK TOP OF FOOTING ELEVATION
DP-XX / XX-XX	=	DRILLED PIER TOP OF DRILLED PIER ELEVATION
SC-XX	=	STEEL COLUMN
PC-XX	=	PILE CAP
PS-XX	=	PRECAST SEATING UNIT
PST-XX	=	PRECAST STAIR
PR-XX	=	PRECAST RAKER
PW-XX	=	PRECAST WALL
PP-XX	=	PRECAST EMBED PLATE
LF-XX	=	LATERAL FRAME ELEVATION
BXX(X)	=	CONCRETE BEAM (CAMBER)
CBXX(X)	=	CONCRETE BEAM (CAMBER)
XXk	=	BEAM REACTION IN KIPS
[XX]	=	SHEAR STUD QUANTITY
c=X"	=	CAMBER (INCHES)
( )	=	ELEVATION OF TOS
DX	=	DX = DECK/SLAB MARK AND METAL DECK DIRECTION
	=	MOMENT CONNECTION
	=	BRACING
X	=	PENETRATION THRU STRUCTURAL MEMBER
	=	DAVIT

SYMBOL		DESCRIPTION
XXX-XX'	=	ELEVATION SYMBOL
	=	STEP
	=	SLOPE
X	=	KEY NOTE
	=	BOX NOTE: DESIGNATES THE NOTE IS TYPICAL AND APPLIES TO ALL SIMILAR CONDITIONS
X	=	DRAWING REVISION NUMBER
	=	CURRENT REVISION CLOUD
	=	SUBGRADE
	=	MASONRY WALL
XX Xk	=	MECHANICAL UNIT (XX.Xk = MECHANICAL UNIT WEIGHT IN KIPS INCLUDING HOUSEKEEPING PAD)
	=	OVERFRAMING STRUCTURE
	=	POUR STRIP
X / DX X	=	DETAIL SECTION CUT SHEET DRAWN ON

DIMENSIONS

GRID TO GRID | GRID TO OBJECT | OBJECT TO OBJECT

NOT ALL LEGEND SYMBOLS USED THIS PROJECT

SHEET INDEX

S1.10	ABBREVIATIONS, LEGEND, SHEET INDEX
S1.11	GENERAL NOTES & INFORMATION
S2.10	PARKING/ FOUNDATION PLAN - OVERALL
S2.11	PARKING/ FOUNDATION PLAN - ENLARGED
S2.20	PLAZA LEVEL FRAMING PLAN - OVERALL
S2.21	PLAZA LEVEL FRAMING PLAN - ENLARGED
S2.30	ROOF FRAMING PLAN - OVERALL
S2.31	ROOF FRAMING PLAN - ENLARGED
S3.10	TYPICAL FOUNDATION DETAILS & SCHEDULES
S3.11	FOUNDATION AND MASONRY DETAILS
S4.10	TYPICAL STEEL CONNECTIONS & DETAILS
S4.11	FRAMING DETAILS
S4.12	FRAMING DETAILS
S4.13	FRAMING DETAILS
S4.20	ROOF DETAILS
S4.21	ROOF DETAILS
S4.22	ROOF DETAILS

SINK COMBS DETHLEFS

MARTIN / MARTIN
CONSULTING STRUCTURAL ENGINEERS

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS Δ	2/16/01
CONST DOCS Δ	3/16/01
ADDENDUM Δ	3/26/01
BULLETIN #1 Δ	4/9/01
CONST USE	4/26/01

Two Rivers Convention Center

M/M Project No. 14386.S.01
SDC Project No. 9826

ABBREVIATIONS, LEGEND & SHEET INDEX

Drawn By: DNE
Checked By: DEM

S1.10

PROJECT: TWO RIVERS CONVENTION CENTER — DWG UPDATED
PROJECT MANAGER: Ben Nelson — BY: KIMT
DESIGNED BY: KIM THORNOCK — M/M NO.: 14386.S.01 — DATE: 03-15-01
DRAWN BY: DAN EAGAN — SHEET NO.: IR-S110.DWG

DESIGN CRITERIA

1. CODES AND STANDARDS USED IN DESIGN:
   - A. IBC 2000
   - B. CONCRETE DESIGN:
     - ACI 301-96 "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS."
     - ACI 318-95 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
   - C. MASONRY:
     - ASCE 5-99: "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
     - ASCE 6-99: "SPECIFICATION FOR MASONRY STRUCTURES".
   - D. STEEL: AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN" JUNE 1, 1989.
2. WIND LOADS:
   - BASIC WIND SPEED ..... 80 MPH
   - EXPOSURE CATEGORY ..... B
   - IMPORTANCE FACTOR, I(W) 1.0
3. SEISMIC LOADS: NEED NOT BE CONSIDERED, DO NOT CONTROL OVER WIND LOADS
4. SNOW LOADS
   - BASIC FLAT ROOF ..... 30 PSF
   - GROUND ..... 25 PSF
   - EXPOSURE FACTOR,CE 0.7
   - IMPORTANCE FACTOR I(SNOW) 1.0
5. LATERAL LOAD RESISTING SYSTEM DESCRIPTION:

   STEEL BRACED FRAMES, MASONRY SHEAR WALLS, AND CONCRETE SHEAR WALLS.
6. GRAVITY LOADS

   A.

LOCATION	(1) SUPERIMPOSED DEAD LOAD, PSF	LIVE LOAD, PSF	LIVE LOAD REDUCTION	PARTITION LOAD, PSF	REMARKS
ROOF	20 (INCLUDES 18 PSF ROOFING LOAD)	30 WITH UNIFORM LOAD (AND UNBALANCED SNOW PER IBC 2000)	NO	—	—
PLAZA LEVEL NEW STRUCTURE	12	100	NO	—	—

NOTES: 1. SUPERIMPOSED DEAD LOAD EXCLUDES STRUCTURE SELF WEIGHT BUT INCLUDES THE WEIGHT OF ALL OTHER PERMANENT MATERIALS SUCH AS CEILINGS, MEP, FINISHES, ROOFING, ETC.

GENERAL NOTES

SECTION 1 - GENERAL REQUIREMENTS

1.0 DEFINITIONS:

- A. ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

1.1.1 THESE NOTES SUPPLEMENT THE SPECIFICATIONS WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS.

1.1.2 UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES, AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.

1.1.3 EXISTING STRUCTURES

- A. CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.
- B. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT NOW KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION (DISCOVERY). CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES INCLUDE:
  - SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN.
  - DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS.
  - CONDITIONS OF INSTABILITY OR LACK OF SUPPORT.
- C. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.

1.1.4 USE OF DRAWINGS

- A. DO NOT SCALE DRAWINGS.
- B. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

1.1.5 TEMPORARY CONDITIONS

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

1.1.6 SUBMITTALS AND SUBSTITUTIONS

- A. SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS
  1. IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN INC. FOR MAKING THE CHANGE.
  2. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS.
- B. SUBSTITUTIONS: ARCHITECTS APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS.
- C. NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN INC. FOR DESIGNING THE REPAIR.

1.2.1 CONSTRUCTION ENGINEERING

THE STRUCTURE DEFINED ON THE CONTRACT DOCUMENTS HAS BEEN DESIGNED ONLY FOR LOADS ANTICIPATED ON THE STRUCTURE DURING ITS SERVICE LIFE. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK. SUCH ENGINEERING MAY INCLUDE, BUT IS NOT LIMITED TO:

- LAYOUT
- DESIGN FOR FORMWORK, SHORING, AND RESHORING.
- DESIGN OF CONCRETE MIXES.
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION FOR STEEL, AND CONCRETE CONSTRUCTION.
- WELD PROCEDURES.
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND OR SOIL LOADS.
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES.
- EVALUATION OF TEMPORARY LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS DURING CONSTRUCTION.
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS.

REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS AND CONSTRUCTION ENGINEERING SUBMITTALS.

1.3.1 COORDINATION

- A. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
- B. COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC. WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, PROJECT SHOP DRAWINGS, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.
- C. SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 OF THE FLOOR FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS IN THE PLANE OF THE WALL.

1.3.2 SPECIAL INSPECTION

SPECIAL INSPECTION SHALL BE PROVIDED. THE LIST BELOW IS A SUMMARY OF REQUIRED TESTS, REFER TO THE SPECIFICATIONS FOR DETAILED TESTING REQUIREMENTS.

SOILS:
- SUBGRADE BENEATH FOOTINGS
- FILL BEHIND FOUNDATION AND RETAINING WALLS
- PILE DRIVING

CONCRETE
- STRUCTURAL CONCRETE
- INSTALLATION OF EMBEDDED BOLTS AND PLATES
- SUPPORTING STRUCTURE
- REINFORCING STEEL PLACEMENT
- FIELD BENDING OF REINFORCING STEEL

STRUCTURAL STEEL:
- SHOP AND FIELD WELDING
- FLOOR AND ROOF DECK WELDING
- HDAS IN COMPOSITE FLOOR SYSTEMS
- SHOP INSPECTION OF EMBED PLATE ASSEMBLIES
- STAIRS AND RAILING SYSTEMS
- DAS AND REINFORCING STEEL WELDS
- HIGH STRENGTH BOLTING

STRUCTURAL MASONRY:
- PRECONSTRUCTION TESTING
- PRISM PREPARATION
- MASONRY UNIT PLACEMENT
- REINFORCING PLACEMENT
- GROUT SPACE INSPECTION AND CLEANOUTS
- EMBEDDED PLATES AND ANCHORS
- GROUT AND MORTAR MIXING
- GROUTING

1.3.3 DEFERRED SUBMITTALS: THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR.

- A. METAL JOISTS.
- B. METAL STUD EXTERIOR WALLS.

SECTION 2 - FOUNDATIONS

2.1 DESIGN CRITERIA

- A. REFERENCE PROJECT SOILS REPORT PREPARED BY GEOTECHNICAL ENGINEERING GROUP, INC., NUMBER 544, DATED 17 NOVEMBER 2000, FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- B. FOOTING TOTAL LOAD SOIL BEARING PRESSURE: 1000 PSF
- C. CONCRETE FILLED DRIVEN PILE CAPACITIES USED IN DESIGN: 50 TONS COMPRESSION, 5 TONS SHEAR.
- D. EQUIVALENT FLUID PRESSURE USED FOR WALL DESIGN = 55 PCF FOR "AT REST" CONDITION AND 40 PCF FOR "ACTIVE" CONDITION

SECTION 3 - STRUCTURAL CONCRETE

3.1.1 ALL WORK SHALL CONFORM WITH ACI:301-96 UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.

3.1.2 DETAIL BARS IN ACCORDANCE WITH THE LATEST EDITIONS OF "ACI DETAILING MANUAL", PUBLICATION SP-66 WITH ADDED REQUIREMENTS OF THE PROJECT SPECIFICATION; AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.

3.2.1 REINFORCING

- A. REINFORCING: ASTM A615; 60 KSI
- B. WELDED AND FIELD BENT REINFORCING: ASTM A706, 60 KSI
- C. WELDED WIRE FABRIC: ASTM 185 OR ASTM 497, 70 KSI
- D. SPLICES:
  1. NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MAY BE MADE BY CLASS B CONTACT LAPS OR MECHANICAL CONNECTORS. REFER TO THE LAP SPLICE SCHEDULE 11 FOR LAP LENGTHS.
  2. SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS, AND GRADE BEAMS AS FOLLOWS:
     - A) TOP BARS - AT MIDSPAN
     - B) BOTTOM BARS - OVER SUPPORT
- E. MISCELLANEOUS REINFORCING REQUIREMENTS
  1. PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
  2. MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
  3. NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4, LATEST EDITION.
  4. PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS.

3.2.2 STRUCTURAL CONCRETE MIX REQUIREMENTS

TYPE	INTENDED USE	28 DAY PSI (MPa) ± 1.5 (±0.1)	EXPOS. CLASS PER ACI 318-95	MAX W/C (Max W/C (Lbs/Lbs))	MIN. CEM. CONT. (Lbs/CY)	MAX. AGGR. SIZE (IN)	SLUMP (IN) ± 1 (+25)	TOT. AIR CONTENT PER (2)	CEMENT (3) TYPE	MIN. # ADDITIVES (3)	OTHER REQMTS
1	GRADE BEAMS, TIE BEAMS, & FOUNDATION WALLS	4	NN	0.45	517	3/4	4	—	X	—	—
2	COLUMNS	4	NN	0.50	517	3/4	4	—	I or II	—	—
3	INTERIOR STRUCTURAL SLABS ON METAL DECK	3.5	LW (3)	0.50	517	3/4	4	—	I or II	—	—
4	PARKING LEVEL SLABS & CONCRETE EXPOSED TO DEICERS	5	NN	0.40	564	3/4	4	6	X	AE WRA FM	—
5	ALL CONCRETE NOT OTHERWISE SPECIFIED	4	NN	0.50	517	3/4	4	6	I or II	AE	—

NOTES:

(1) FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
3/4" #67 AGGREGATE
1" #57 AGGREGATE

(2) TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR. 'N' IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED.

(3) ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS:
AE = AIR-ENTRAINING ADMIXTURE
WRA = WATER REDUCING ADMIXTURE.
FM = FIBERMESH

(4) PROVIDE TYPE-2 CEMENT FOR ALL CONCRETE IN CONTACT WITH THE SUBSOILS.

(5) MAXIMUM UNIT WEIGHT OF LIGHTWEIGHT CONCRETE SHALL BE:
118 PCF WET WT
110 +/- 3 PCF, DRY WT

3.3.1 PLACING REINFORCEMENT

- A. REINFORCEMENT PROTECTION
  1. CONCRETE PLACED AGAINST EARTH ..... 3"
  2. CONCRETE PLACED IN FORMS BUT EXPOSED TO WEATHER OR EARTH:
     - A. BARS #5 AND SMALLER ..... 1-1/2"
     - B. BARS LARGER THAN #5 ..... 2"
  3. COLUMNS, GIRDERS, GRADE BEAMS, BEAMS ..... 1-1/2"
  4. SLABS OR WALLS NOT EXPOSED TO WEATHER OR EARTH ..... 1"
- B. REINFORCING PLACING TOLERANCES: PER ACI 117.
- C. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE FABRIC AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

3.3.2 CONSTRUCTION JOINTS

- A. SUBMIT DRAWINGS SHOWING CONSTRUCTION JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS FOR THE ENGINEER'S REVIEW.

3.3.3 MEP AND OTHER OPENINGS AND EMBEDMENTS

- A. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS BEFORE PLACING CONCRETE. REMOVE METAL DECK AT SLEEVE OR OPENING AFTER CONCRETE HAS CURED. DO NOT CUT REINFORCING WHICH MAY CONFLICT. CORING OF CONCRETE IS NOT PERMITTED.
- B. REFER TO TYPICAL DETAILS FOR SPACING LIMITS ON SLEEVES AND FOR REQUIREMENTS FOR EMBEDDED CONDUIT AND PIPE.

SECTION 4 - MASONRY

4.1.1 DEFINITIONS: STRUCTURAL MASONRY IS DEFINED AS BEING EITHER LOAD-BEARING OR SERVING AS THE LATERAL LOAD RESISTING SYSTEM. STRUCTURAL MASONRY IS SHOWN ON THE

STRUCTURAL PLANS THUS: [▭▭▭] AND IS DEFINED IN SCHEDULES AND DETAILS ON THE STRUCTURAL DRAWINGS. PARTITION WALLS, MASONRY VENEER AND OTHER NON-STRUCTURAL MASONRY ARE DEFINED ELSEWHERE.

4.1.2 DESIGN STRENGTH. DEVELOP 1800 PSI COMPRESSIVE STRENGTH (F'M) IN 28 DAYS

4.2.1 STEEL REINFORCING

- A. PRIMARY REINFORCING: ASTM A615, 60 KSI.
- B. HORIZONTAL JOINT REINFORCING: ASTM A82, PREFABRICATED, LADDER TYPE

4.3.1 SPLICES

SPLICES NOT PERMITTED IN REINFORCING BARS EXCEPT AS DETAILED. WHERE PERMITTED, SPLICE BY 48 BAR DIAMETER CONTACT LAPS.

4.3.2 INSTALLATION REQUIREMENTS

- A. GROUT SOLID ALL CELLS CONTAINING REINFORCING AND ALL OTHER CELLS NOTED ON THE CONTRACT DOCUMENTS
- B. FILL CELLS AND VOIDS SOLIDLY WITH GROUT A DISTANCE OF 24" BENEATH AND 12" EACH SIDE OF BEAM AND JOIST REACTIONS AND OTHER CONCENTRATED LOADS UNLESS NOTED OTHERWISE.
- C. REFER TO TYPICAL DETAILS HEREIN FOR:
  1. MINIMUM REINFORCEMENT REQUIREMENTS.
  2. ADDED REINFORCING AT OPENINGS, CONTROL JOINTS, ENDS OF WALLS AND OTHER LOCATIONS.
  3. MASONRY AND STEEL LINTELS AT OPENINGS.

SECTION 5 - METALS

5.1.1 CONNECTION DESIGN: PROVIDE CONNECTIONS AS SHOWN IN THE STEEL BEAM CONNECTION SCHEDULE AND DETAILS HEREIN. PROVIDE 7/8" DIAMETER A325 BOLTS AT ALL CONNECTIONS UNLESS OTHERWISE NOTED. REFER TO SPECIFICATION FOR ALTERNATIVES AND CONNECTIONS NOT SHOWN.

5.1.2 WELDING REQUIREMENTS

- A. WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE A.W.S. QUALIFICATION TESTS.
- B. MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.
  1. WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE.
  2. WELD SIZES SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY AISC J2.1 B AND J2.2 B.
- C. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED.

5.1.3 COMPOSITE DESIGN

- A. NUMBER OF SHEAR STUDS REQUIRED PER BEAM ON DRAWINGS IS BASED ON 100% OF THE AISC VALUE FOR THE CONCRETE TYPE AND 28-DAY STRENGTH SPECIFIED AND SHALL BE THE MINIMUM.

5.1.4 CAMBER

- A. CAMBER SHOWN IS BASED ON THE COMPUTED DEFLECTION OF THE BEAM DUE TO SELF-WEIGHT OF CONCRETE PLACED. DESIGN IS BASED ON THE THEORETICAL CONCRETE THICKNESS PLUS 1/2" THICKNESS FOR BEAM LEVELING. INCLUDE QUANTITY OF ADDED CONCRETE DUE TO BEAM DEFLECTION IN BID.
- B. VALUE NOTED ON PLAN IS IN-PLACE CAMBER, AFTER ERECTION, PRIOR TO PLACING CONCRETE. ADJUST FABRICATION AS REQUIRED TO ACHIEVE CAMBER SPECIFIED WITHIN TOLERANCES.

5.2.1 STRUCTURAL STEEL MATERIAL: PROVIDE THE FOLLOWING UNLESS NOTED:

- A. ROLLED SHAPES AND WT SHAPES:
  - ASTM A992 OR A572 CONFORMING TO AISC TECHNICAL BULLETIN #3 ..... FY = 50 KSI.
- B. HOLLOW STRUCTURAL SECTIONS (HSS):
  1. ROUND ..... ASTM A53 ..... FY = 35 KSI.
  2. RECTANGULAR ..... ASTM A500 GRADE 'B' ..... FY = 46 KSI.
- C. PLATES, ANGLES, CHANNELS, AND OTHER STEEL NOT IDENTIFIED: ..... ASTM A36 ..... FY = 36 KSI.

5.2.2 CONNECTION MATERIAL:

- A. ANCHOR RODS: ASTM A307 UNLESS NOTED OTHERWISE.
- B. BOLTS: ASTM A325 UNLESS NOTED OTHERWISE.
- C. WELDING ELECTRODES: AWS D1.1, E70 SERIES UNLESS NOTED OTHERWISE.
- D. HEADED ANCHOR STUDS (HD A.S.) AND DEFORMED ANCHOR STUDS (DAS) AWS D1.1 FY = 50 KSI.
  STUDS SHALL BE AUTOMATICALLY END WELDED IN SHOP WHERE POSSIBLE. FOR COMPOSITE CONSTRUCTION, CONNECTORS SHALL BE FIELD WELDED THROUGH THE METAL DECK.
- E. EXPANSION ANCHORS: REFER TO SPECIFICATIONS FOR MATERIAL, GRADE, AND FINISH.

5.3.1 STRUCTURAL STEEL INSTALLATION

- A. ALL A325 BOLTS SHALL BE TENSIONED TO THE VALUES OF TABLE J3.7 OF "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", AISC 1989. OTHER HIGH-STRENGTH BOLTS MAY BE INSTALLED SNUG TIGHT AS DEFINED BY AISC.

5.3.2 STEEL JOISTS

- A. DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS, LATEST EDITION.
- B. SIZE, TYPE, AND SPACING OF JOIST BRIDGING PER CURRENT SJI REQUIREMENTS. USE 'X' BRIDGING AT DISCONTINUOUS ENDS OF BRIDGING UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. COORDINATE LOCATION OF BRIDGING TO AVOID OTHER TRADES.
- C. REFER TO PLAN NOTES FOR ADDITIONAL JOIST DESIGN REQUIREMENTS INCLUDING UNBALANCED, CONCENTRATED AND UPLIFT LOADS.

5.3.3 METAL DECK

- A. DECK MATERIALS:
  - COMPOSITE DECK: ASTM A663 OR ASTM A611 FY = 40 KSI
  - ROOF DECK: ASTM A653 OR ASTM A611 FY = 33 KSI
- B. NO TEMPORARY SHORING OF STEEL DECK PERMITTED WITHOUT PRIOR ACCEPTANCE OF THE ENGINEER.
- C. INSTALL DECK OVER 4 SUPPORTS (3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE. IF LESS THAN 3 SPANS ARE REQUIRED, CONTRACTOR SHALL REQUEST HEAVIER GAUGE DECK REQUIREMENTS FROM ENGINEER.
- D. PROVIDE DECK ATTACHMENTS AS NOTED ON DRAWINGS BUT NOT LESS THAN REQUIRED BY THE STEEL DECK INSTITUTE.
- E. DESIGN, PROVIDE, AND INSTALL REINFORCING REQUIRED TO SUPPORT DECK AT DECK OPENINGS 10" IN ANY DIRECTION OR SMALLER. OPENINGS LARGER THAN 10" SHALL HAVE A SUPPORTING FRAME PER TYPICAL DETAILS.
- F. HANGERS: DO NOT HANG LOADS FROM FLOOR DECK. HANGERS TO BE SUPPORTED BY THE CONCRETE SLAB ABOVE THE FLOOR DECK. HANGERS SHALL NOT BE USED ON STEEL ROOF DECK. SUPPORT CEILINGS, LIGHT FIXTURES, DUCTS, ETC. ON ROOF FRAMING.

5.3.4 METAL STUDS

- A. REFER TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR GENERAL INFORMATION.
- B. REFER TO THE PROJECT SPECIFICATIONS FOR DESIGN AND SUBMITTAL REQUIREMENTS.
- C. ALL EXTERIOR METAL STUD WALLS SHALL BE 18 GA. (MINIMUM) AND SPACED 18" ON CENTER (MAXIMUM). PROVIDE 4" OR 6" STUDS AS DEFINED ON THE ARCHITECTURAL DRAWINGS. THE EXTERIOR WALL METAL STUD SYSTEM SHALL BE DESIGNED BY THE METAL STUD ENGINEER AND DETAILED AND DEFINED ON THE METAL STUD ERECTION DRAWINGS SUBMITTED FOR REVIEW. REF. SPECS FOR REQUIREMENTS.
- D. THE EXTERIOR METAL STUD SYSTEM IS NON-LOAD BEARING AND SHALL BE DESIGNED FOR A MAXIMUM HORIZONTAL DEFLECTION DUE TO WIND OF H/360. REFER TO DESIGN CRITERIA, THIS SHEET FOR WIND DESIGN PARAMETERS. ⚠

SECTION 6 - WOOD - NOT USED

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PROJECT: TWO RIVERS CONVENTION CENTER (TAG UPDATED)
PROJECT MANAGER: Brad Hopkins BY: TONYAM
DESIGNED BY: KLM THERMOCK JOB NO: 1438S.S10 DATE: 04-25-01
DRAWN BY: DAN EAGAN SHEET NO: S1.11 DWG

SINK COMBS DETHLEFS
Architectural Sheet Metal and Roofing
Milwaukee, Wisconsin
MARTIN / MARTIN
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Milwaukee, Wisconsin

Issues/Revisions		Date
SCHEMATIC DESIGN		9/8/00
DESIGN DEVELOPMENT		12/15/00
STEEL BID PACKAGE		1/26/01
PROGRESS DWGS &	⚠	2/19/01
CONST DOCS &	⚠	3/16/01
ADDENDUM	⚠	3/28/01
BULLETIN #1	⚠	4/9/01
CONST USE		4/26/01

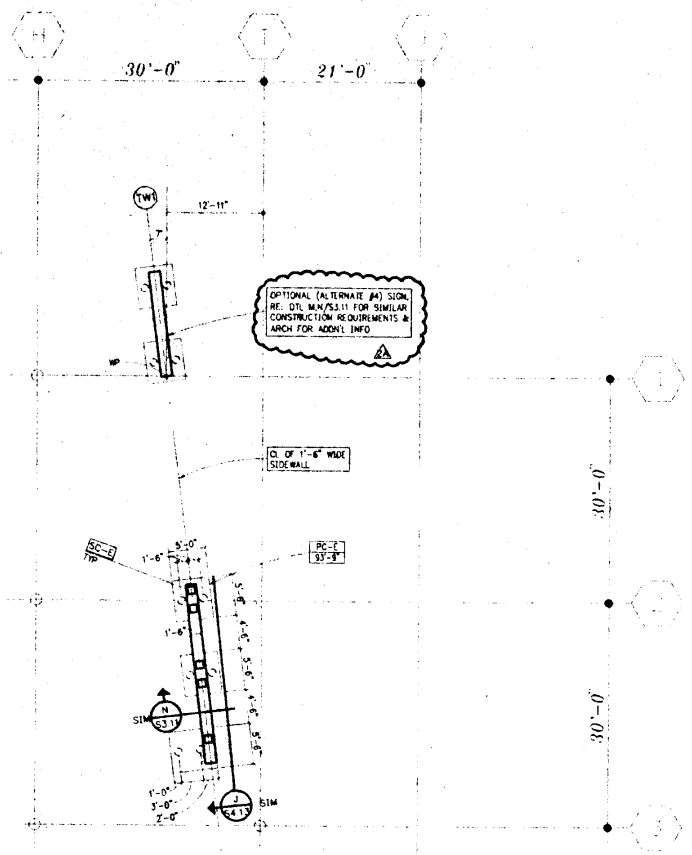
Two Rivers Convention Center

M/M Project No. 1438S.S10
SCD Project No. 9924

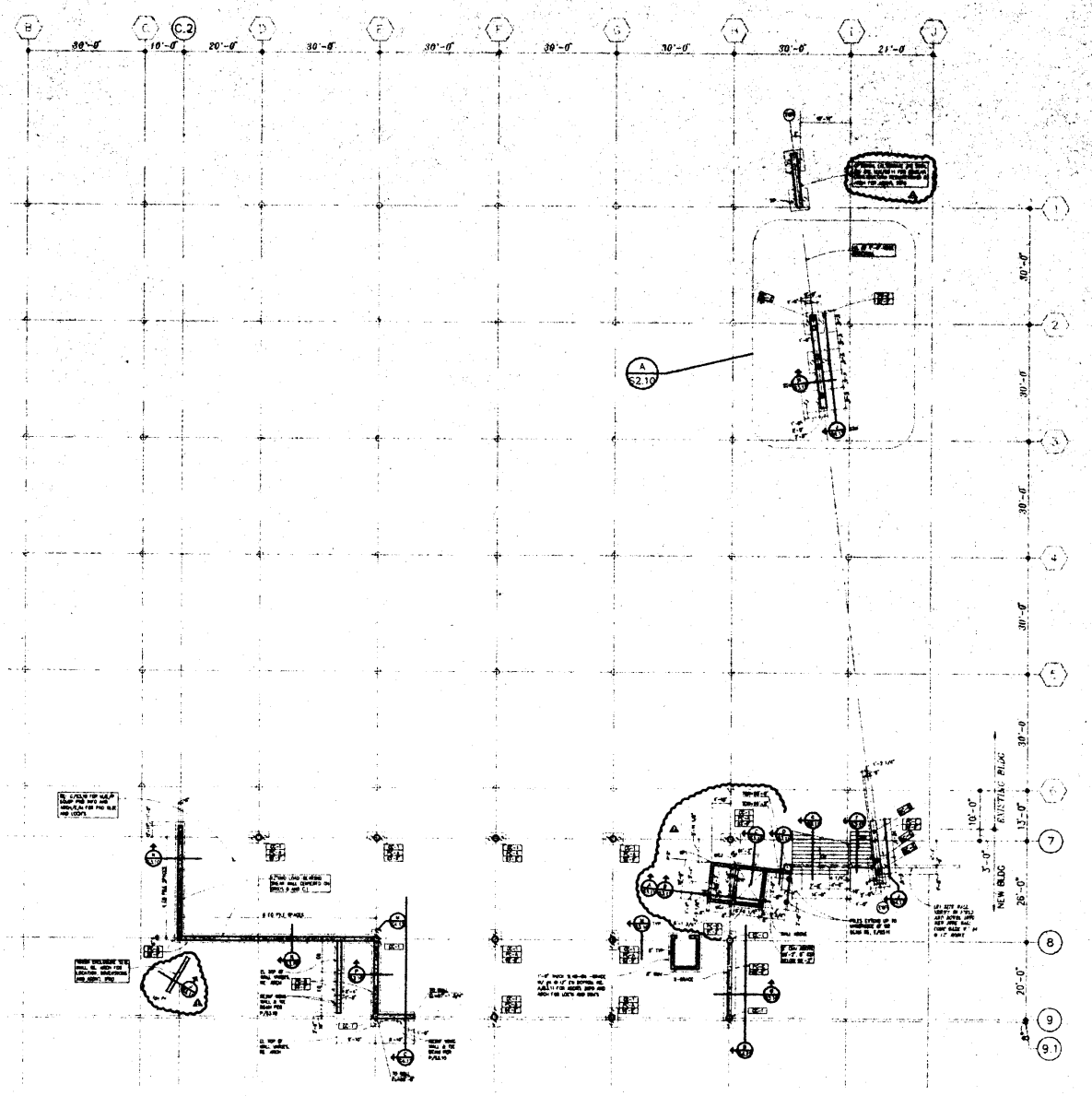
GENERAL NOTES AND INFORMATION

Drawn By: DAE
Checked By: CBH

S1.11



A PARTIAL PLAN
1/8"=1'-0"



PARKING LEVEL FOUNDATION PLAN-OVERALL 1/16"=1'-0

A. SLABS-ON-GRADE

1. SLABS-ON-GRADE SHALL BE 4 INCH THICK NORMAL WEIGHT CONCRETE ON 4 INCH FREE-DRAINING GRAVEL ON NATURAL, UNDISTURBED SOILS OR PROPERLY COMPACTED STRUCTURAL FILL. RE: SOILS REPORT AND SPECIFICATIONS FOR REQUIREMENTS.
2. REINFORCE SLABS-ON-GRADE WITH 6X6 W2.1XW2.1 W.W.F., CENTERED.
3. ELEVATION TOP OF SLABS-ON-GRADE SHALL BE 95'-8" UNLESS NOTED ON PLAN THUS: 4 XXX-XX
4. RE: ARCH DRAWINGS FOR SLAB SLOPES AND DEPRESSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

B. PILES

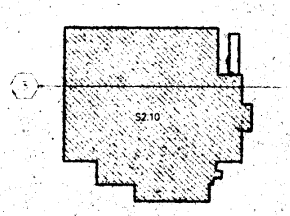
1. RE. K/S3.10 FOR TYPICAL PILE INFORMATION.
2. PILE CAP TYPE NOTED ON PLAN THUS: PC-X. ALL PILE CAPS ARE TYPE PC-A UNLESS NOTED OTHERWISE. RE: SCHEDULE, SHEET S3.10.
3. ALL PILE GROUP CENTROIDS SHALL BE CENTERED ON GRADE BEAMS, WALLS AND GRID LINES UNLESS DIMENSIONED OTHERWISE.
4. TOP OF PILE CAP SHALL BE 93'-9" UNLESS NOTED ON PLAN THUS: (XXX'-X).
5. ALL SITE WALL FOOTINGS SHALL BEAR ON NATURAL, UNDISTURBED SOIL OR PROPERLY COMPACTED STRUCTURAL FILL. RE: SOILS REPORT AND SPECIFICATIONS FOR REQUIREMENTS.

C COLUMNS/PILASTERS

1. ALL COLUMNS AND PILASTERS ARE CENTERED ON THE INTERSECTION OF GRID LINES UNLESS DIMENSIONED OTHERWISE.
2. TYPICAL CONC COLUMN MARK: CC-1 SHALL BE 20" DIAMETER REINFORCED W/ 6-#8 VERT AND #4 TIES @ 16"OC.
3. STEEL COLUMNS NOTED ON PLAN THUS: SC-X RE: SCHEDULE, S2.21 FOR COL SIZE AND ADDN'L INFORMATION.

D MASONRY

1. TYPICAL VERTICAL REINFORCING: REINFORCE 8 INCH AND 12 INCH THICK CMU WALLS WITH #5 AT 24 INCHES OC VERTICAL. LAP VERTICAL REINFORCING 48 BAR DIAMETERS, MINIMUM.
2. CENTER VERTICAL REINFORCING IN WALL AND GROUT ALL CELLS SOLID. PROVIDE VERTICAL REINFORCING FOR THE FULL WALL HEIGHT AT EACH SIDE OF ALL WALL OPENINGS, EACH SIDE OF CONTROL JOINTS AND AT ENDS OF WALLS.
3. TYPICAL HORIZONTAL REINFORCING: PROVIDE CONTINUOUS BOND BEAMS WITH 2-#5 HORIZONTAL AT EACH LEVEL, TOP OF WALLS, AND AT 8'-0 OR CENTER MAXIMUM SPACING. MAKE BOND BEAM REINFORCING CONTINUOUS AROUND CORNERS.
4. RE: ARCH/PLAN FOR DIMENSIONS OF ALL MASONRY WALLS.
5. RE: SPECIFICATIONS FOR WALL CONTROL JOINTS.
6. ALL MASONRY WALL DOWELS SHALL BE A706 REINFORCING.
7. RE: S3.11 FOR TYPICAL MASONRY DETAILS.



KEY PLAN

PROJECT: TWO RIVERS CONVENTION CENTER — DWG. UPDATE:
PROJECT MANAGER: Ben Nelson — BY: done
DESIGNED BY: KIM THORNOCK — FILE NO: 14386.S.01 — 07-30-01
DRAWN BY: LAD — SHEET NO: TR-S2.10.DWG

Sink Combs Detailers

MARTIN / MARTIN
CONSULTING ENGINEERS

Issues/Revisions		Date
SCHEMATIC DESIGN		9/8/00
DESIGN DEVELOPMENT		12/15/00
STEEL BID PACKAGE		1/26/01
PROGRESS DWGS &	1	2/16/01
CONST DOCS &	2	3/15/01
ADDENDUM	3	3/28/01
BULLETIN #1	4	4/9/01
CONST USE		4/26/01

Two Rivers Convention Center

M.M. Project No. 14386.S.01
Sheet No. 9124

PARKING LEVEL FOUNDATION PLAN-OVERALL

Drawn by: DNE
Checked by: KBN

S2.10

RE: G/S3.10 FOR M/E/P EQUIP PAD INFO AND ARCH/R/W FOR PAD SIZE AND LOC'N'S

4 EQ PILE SPACES

12"CMU LOAD-BEARING SHEAR WALL CENTERED ON GRIDS B AND C.1

6 EQ PILE SPACES

TRASH ENCLOSURE SITE WALL, RE: ARCH FOR LOCATION, DIMENSIONS AND ADDN'L IFND

EL TOP OF WALL VARIES RE: ARCH

REINF WING WALL & TIE BEAM PER P/S3.10

TO WALL EL=97'-1 3/4"

TO WALL EL=99'-8"

1'-0" THICK SLAB-ON -GRADE W/ #4 @ 12" EW BOTTOM RE: A/S3.11 FOR ADDN'L INFO AND ARCH FOR LOC'N AND DIM'S

8" CMU

X-BRACE

8" CMU ABOVE 99'-2", 8" CMR BELOW 99'-2"

PILES EXTEND UP TO UNDERSIDE OF GR BEAM RE: E/S3.11

(E) SITE WALL VERIFY IN FIELD AND DOWEL INTO NEW SIDE WALL CONC BASE W/ #4 @ 12" HORIZ

EXISTING BLDG

NEW BLDG

PARKING LEVEL FOUNDATION PLAN - ENLARGED 1/8"=1'-0

RE: S2.10 FOR PLAN NOTES

KEY PLAN

S2.11

PROJECT: TWO RIVERS CONVENTION CENTER DWG UNITIZED
PROJECT MANAGER: Ben Nelson BY: dana
DESIGNED BY: Ben Nelson JOB NO. 14386.5.01 DATE: 03-30-01
DRAWN BY: LAD SHEET NO. S2.11.DWG

SINK COMBS DETHLEFS

MARTIN / MARTIN

Issues/Revisions		Date
SCHEMATIC DESIGN		9/8/00
DESIGN DEVELOPMENT		12/15/00
STEEL BID PACKAGE		1/26/01
PROGRESS DWGS &	1	2/16/01
CONST DOCS &	2	3/30/01
ADDENDUM	3	5/25/01
BULLETIN #1	4	6/3/01
CONST USE		6/26/01

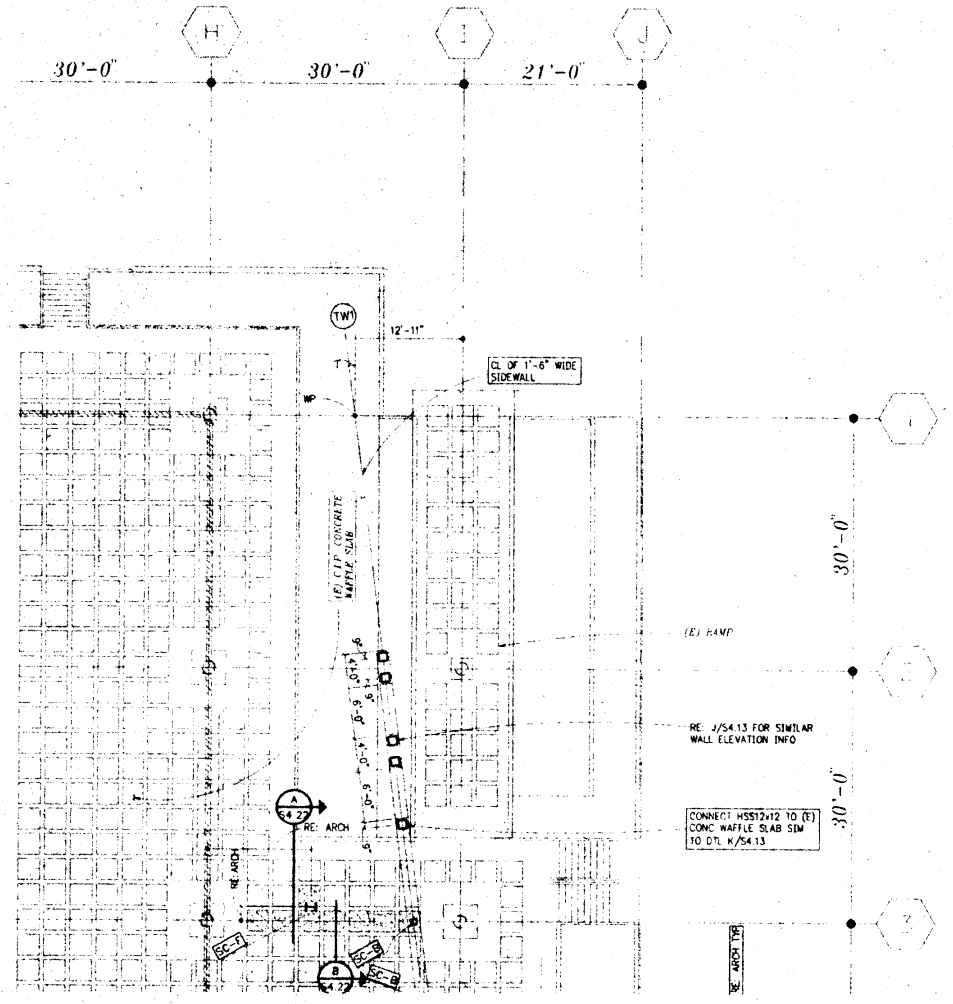
Two Rivers Convention Center

M/M Project No. 14386.5.01
SCD Project No. 9524

PARKING LEVEL FOUNDATION PLAN - ENLARGED

Drawn by: DNT
Checked by: GBH

S2.11


H
I
J
30'-0"
30'-0"
21'-0"
TW1
12'-11"
CL OF 1'-6" WIDE SIDEWALL
18" CIP CONCRETE WAFFLE SLAB
(E) RAMP
RE: 2/S4.13 FOR SIMILAR WALL ELEVATION INFO
CONNECT HSS12x12 TO (E) CONC WAFFLE SLAB SIM TO DTL K/S4.13
30'-0"
30'-0"
RE: ARCH
RE: ARCH
RE: ARCH TYP
EC1
EC2
EC3
EC4
EC5
EC6
EC7
EC8
EC9
EC10
EC11
EC12
EC13
EC14
EC15
EC16
EC17
EC18
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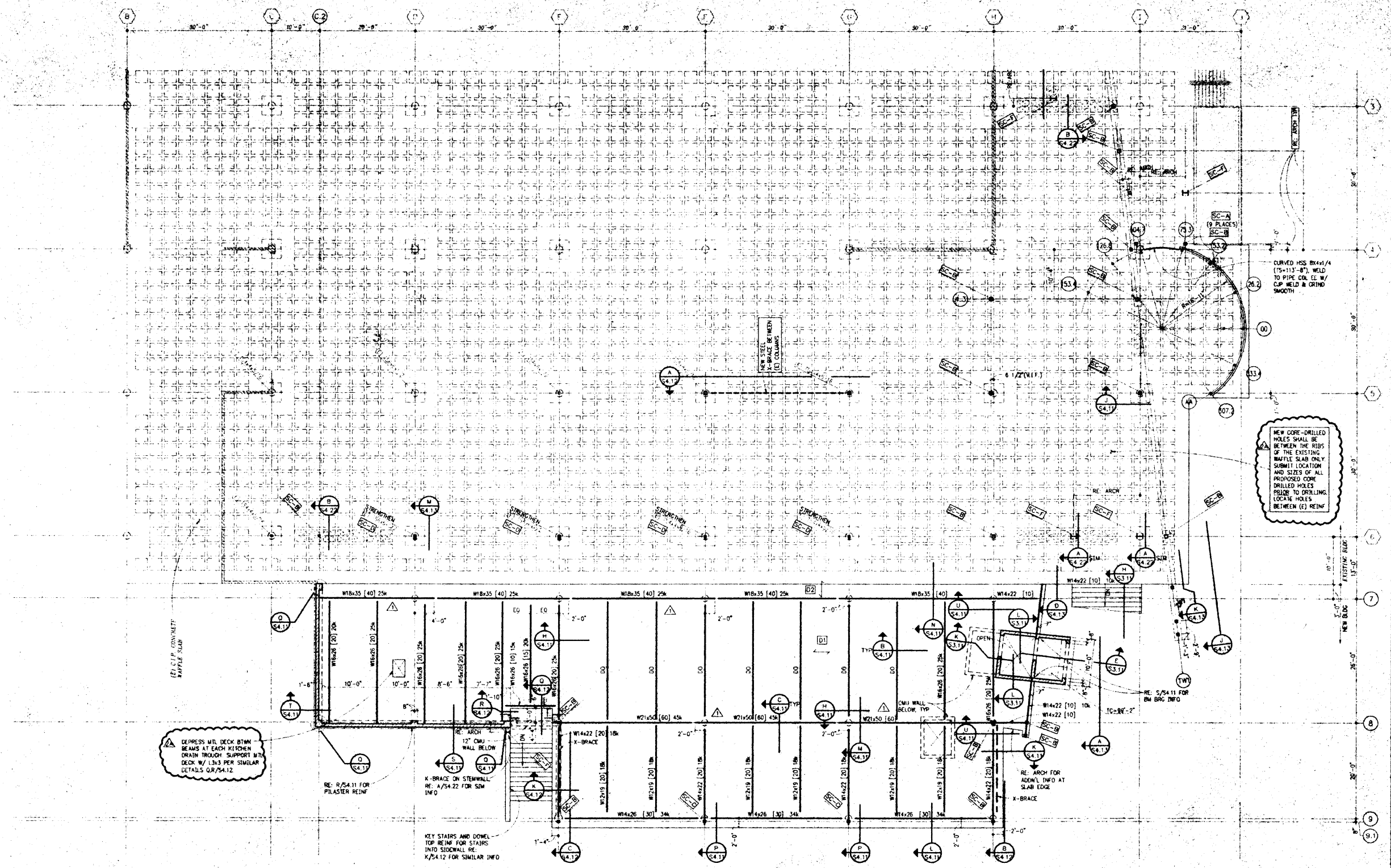
EC38
EC39
EC40

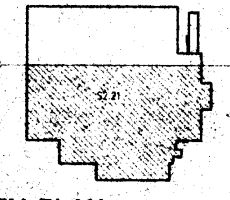


MARK	COLUMN SIZE	REFERENCE DETAIL(S)
SC-A	5"ø STD PIPE	J/S4.11
SC-B	HSS6X8x1/4	J/S4.11, B/S4.22
SC-C	HSS6X8x3/8	P/S4.11
SC-D	HSS8X4x1/2 ⚠	M/S4.13
SC-E	HSS12X12x1/4	M/S3.11
SC-F	W6x20	A/S4.22

A COLUMN SCHEDULE
NO SCALE

PLAZA LEVEL FRAMING PLAN - ENLARGED 1/8"=1'-0

RE: S2.20 FOR PLAN NOTES



KEY PLAN

PROJECT: TWO RIVERS CONVENTION CENTER — DWG. UNITIZED
PROJECT MANAGER: Ben Nelson — BY: done
DESIGNED BY: KIM THORNOCK — JOB NO.: 14386.0 — DATE: 02-30-01
DRAWN BY: LAD — SHEET NO.: IR-S2.21.DWG

SINK COMBS DETHLEFS

MARTIN / MARTIN CONSULTING ENGINEERS

Issues/Revisions		Dates
SCHEMATIC DESIGN		9/8/00
DESIGN DEVELOPMENT		12/15/00
STEEL BID PACKAGE		1/26/01
PROGRESS DWGS &	⚠	2/16/01
CONST DOCS &	⚠	3/16/01
ADDENDUM	⚠	3/28/01
BULLETIN #1	⚠	4/9/01
CONST. USE		4/26/01

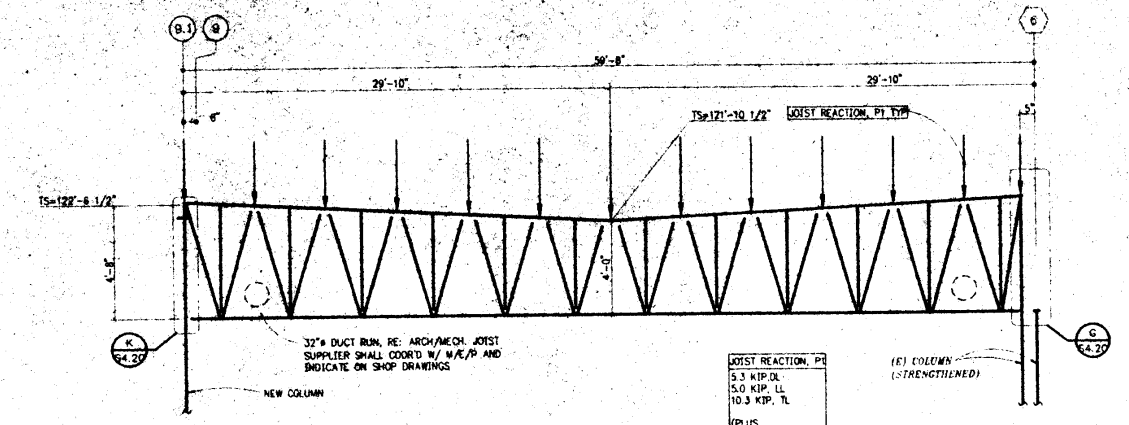
Two Rivers Convention Center

M/M Project No. 14386.0
CD Project No. 0024

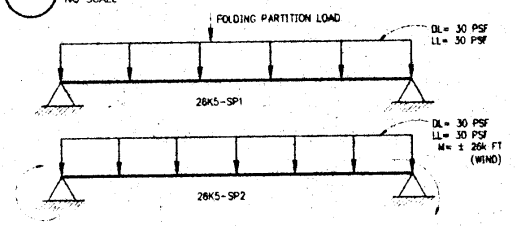
PLAZA LEVEL FRAMING PLAN - ENLARGED

Drawn by: DNE
Checked by: CBN

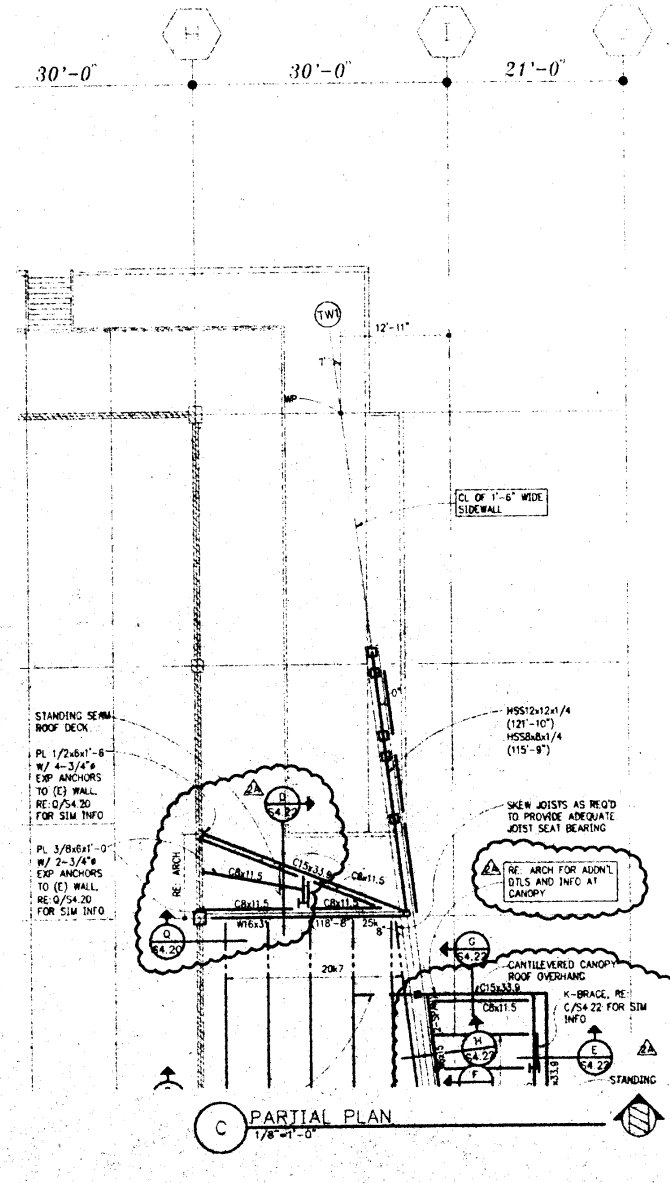
S2.21



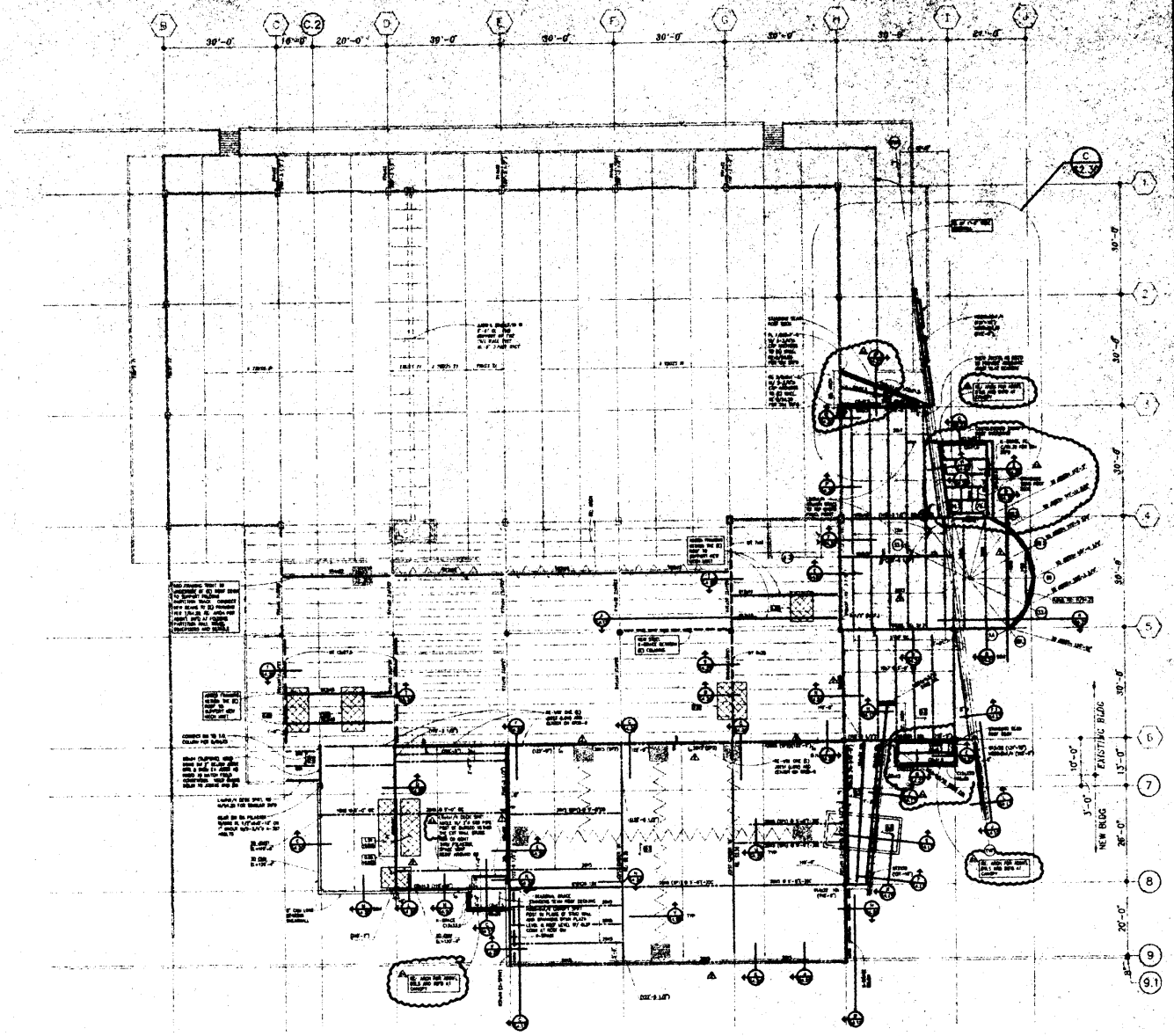
A JOIST GIRDER 'G1' ELEVATION
NO SCALE



B SPECIAL JOIST LOADING DIAGRAMS
NO SCALE



C PARTIAL PLAN
1/8"=1'-0"



ROOF FRAMING PLAN - OVERALL
1/16"=1'-0"

A. METAL DECK:

1. METAL ROOF DECK SHALL BE 1-1/2 INCH TYPE 'B' DECK. RE: S4.11 FOR DECK REQUIREMENTS
2. MINIMUM DIAPHRAGM SHEAR CAPACITY SHALL BE 500 PLF. MINIMUM DECK ATTACHMENTS TO BE AS FOLLOWS
   a. ATTACH DECK TO SUPPORTING MEMBERS WITH SEVEN 5/8 INCH DIAMETER PUDDLE WELDS PER 36 INCH WIDE DECK SHEET.
   b. ATTACH DECK TO EDGE ANGLES AND MEMBERS PARALLEL TO CORRUGATIONS WITH 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES O.C.
   c. CONNECT DECK SIDE LAPS WITH #10 TEK SCREWS AT 12 INCHES O.C.
3. DIRECTION OF DECK SPAN NOTED ON PLAN THUS: ←→

B. STEEL BEAMS:

1. ELEVATION TOP OF STRUCTURAL STEEL NOTED ON PLAN THUS: (XXX'-X)
2. BEAM END REACTIONS, IN KIPS, NOTED ON PLAN THUS: XXk
3. ALL BEAMS ARE A572 GRADE 50.

C. STEEL JOISTS:

1. UNLESS NOTED ELSEWHERE ALL 'K' SERIES JOISTS HAVE 2 1/2" DEEP BEARING SEATS. JOIST GIRDERS HAVE 7 1/2" DEEP BEARING SEATS.
2. JOIST BEARING ELEVATION NOTED ON PLAN THUS: (XXX'-X)
3. JOISTS DESIGNATED "26K" INDICATES A 26 INCH DEEP K SERIES OPEN WEB STEEL JOIST
4. JOISTS DESIGNATED "26KSP" INDICATES A 26 INCH DEEP JOIST WITH SPECIAL LOADING AND/OR DEFLECTION REQUIREMENTS. RE: NOTES AND DETAILS FOR DESIGN CRITERIA OF SPECIAL JOISTS.
5. JOIST GIRDERS, JOISTS AND JOIST BRIDGING SHALL BE DESIGNED FOR THE FOLLOWING WET UPLIFT LOADS DUE TO WIND:
   a. 20 PSF APPLIED OVER THE ENTIRE ROOF AREA.
   b. 30 PSF APPLIED AT ROOF OVERHANGS.
6. RE: DETAILS FOR JOISTS REQUIRING EXTENDED ENDS.

D. MECHANICAL EQUIPMENT:

1. CONTRACTOR SHALL VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.
2. MECHANICAL EQUIPMENT WEIGHTS, IN KIPS, NOTED ON PLAN THUS: [redacted] MECHANICAL EQUIPMENT WEIGHT SHALL BE EVENLY DISTRIBUTED TO ALL SUPPORTING JOISTS. EQUIPMENT TO BE PLACED TO BEAR ON TWO JOISTS MINIMUM. EACH SUPPORTING JOIST AND/OR JOIST GIRDER SHALL BE DESIGNED TO SUPPORT A CONCENTRATED LOAD FROM THE MECHANICAL EQUIPMENT. THIS LOAD IS IN ADDITION TO THE JOIST UNIFORM LOADS OR JOIST GIRDER POINT LOADS INDICATED. PROVIDE MINIMUM JOIST SIZE AS INDICATED.
3. RE: DETAIL B/S4.20 FOR JOIST CHORD SUPPORT AT MECHANICAL EQUIPMENT.
4. ALL OPENINGS IN METAL DECK GREATER THAN 10 INCHES IN ANY DIRECTION SHALL BE SUPPORTED ON ALL FOUR SIDES BY A STEEL FRAME SPANNING BETWEEN DECK SUPPORTS. RE: A/S4.20 FOR TYPICAL FRAMING AT ROOF DECK OPENINGS.

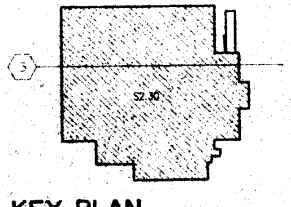
E. OWNER'S SNOW REMOVAL PLAN:

HENCEFORTH FOR THE LIFE OF THIS STRUCTURE, THE BUILDING OWNER SHALL IMPLEMENT A "SNOW REMOVAL PLAN" WHICH INCLUDES THE MANUAL REMOVAL OF SNOW ACCUMULATION IN ANY AREA OF THE ORIGINAL ROOF STRUCTURE THAT EXCEEDS 30 POUNDS PER SQUARE FOOT (PSF) UNIFORMLY DISTRIBUTED.

THIS MANUAL SNOW REMOVAL IS REQUIRED BECAUSE THE STRUCTURAL RECORD DOCUMENTS INDICATE THE ORIGINAL ROOF STRUCTURE WAS DESIGNED FOR ONLY 30 PSF UNIFORM SNOW LIVE LOAD WITHOUT CONSIDERATION FOR SNOW DRIFTING. STRENGTHENING THE EXISTING ROOF STRUCTURE FOR DRIFTING SNOW WAS NOT DESIRED BY THE OWNER AT THE TIME OF THIS BUILDING ADDITION.

F. FOLDING PARTITIONS/SUSPENDED FROM ROOF JOISTS:

1. INDICATES FOLDING PARTITIONS IN STACKED CONFIGURATION. TOTAL WEIGHT VARIES WITH EA LOCATION AND SHALL BE COORD W/ PARTITION SUPPLIER
2. INDICATES FOLDING PARTITIONS IN EXTENDED POSITION. WEIGHT/FT SHALL BE COORD W/ PARTITION SUPPLIER
3. JOIST SUPPLIER SHALL INCORPORATE WEIGHT OF FOLDING PARTITIONS INTO THE JOIST DESIGN WHERE NOTED AS (SP) ON PLAN.



KEY PLAN

SINK COMBS DETHLEFS

MARTIN / MARTIN

Issues/Revisions:		Date:
SCHEMATIC DESIGN		9/8/00
DESIGN DEVELOPMENT		12/15/00
STEEL BID PACKAGE		1/26/01
PROGRESS DWGS &	1	2/16/01
CONST DOCS &	2	3/16/01
ADDENDUM	3	3/28/01
BULLETIN #	4	4/9/01
CONST USE		4/26/01

Two Rivers Convention Center

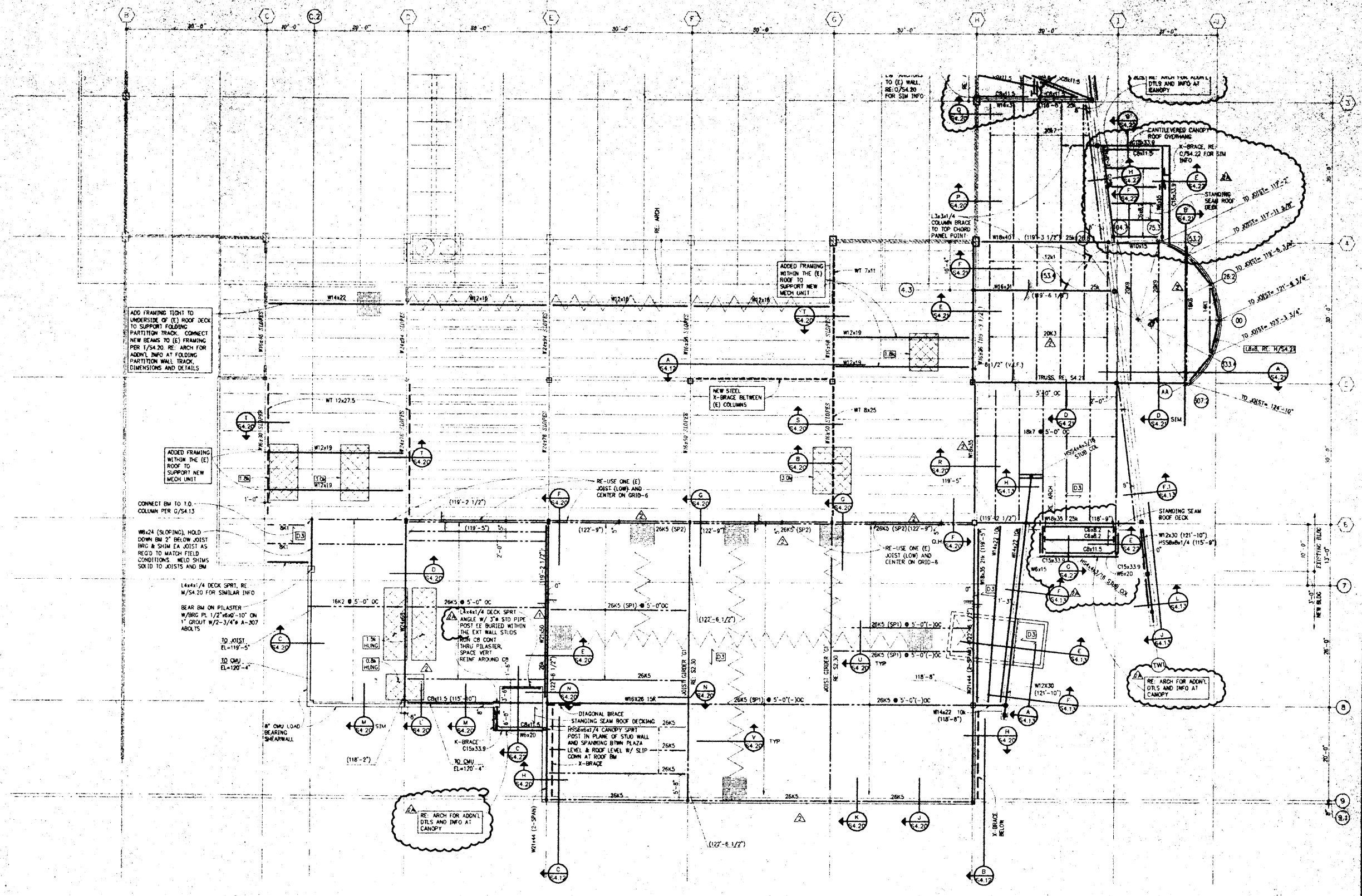
M.M. Project No. 14386.5.01
St. Project No. 3529

ROOF FRAMING PLAN - OVERALL

Drawn by: DMF
Checked by: GBM

S2.30

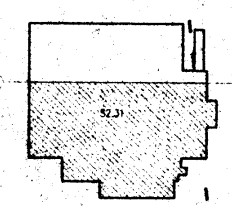
PROJECT: TWO RIVERS CONVENTION CENTER — DWG. UPDATED:
PROJECT MANAGER: Ben Nelson — By: dsmw
MM PROJECT NO.: 14386.5.01 — SHEET NO.: S2.30
ARCHITECT: KIM THORNOCK — DRAWING NO.: 03-30-01
DRAWN BY: DAN EAGAN — FILE NO.: IR-S230.DWG



ROOF FRAMING PLAN - ENLARGED

1/8"=1'-0"

RE: S2.30 FOR PLAN NOTES



KEY PLAN

PROJECT: TWO RIVERS CONVENTION CENTER — ALL UPDATED
PROJECT MANAGER: Ben Nelson — BY: done
DESIGNED BY: KIM THORNOCK — M.M. NO.: 14366.6.01 — DATE: 03-30-01
DRAWN BY: DAN EAGAN — SHEET NO.: TR-S2.31.DWG

SINK COMBS DETHLEFS

MARTIN / MARTIN

Issues/Revisions		Date
SCHEMATIC DESIGN		9/8/00
DESIGN DEVELOPMENT		12/15/00
STEEL BID PACKAGE		1/26/01
PROGRESS DWGS &	1	2/16/01
CONST DOCS &	2	3/16/01
ADDENDUM	3	3/28/01
BULLETIN #1	4	4/9/01
CONST USE		4/26/01

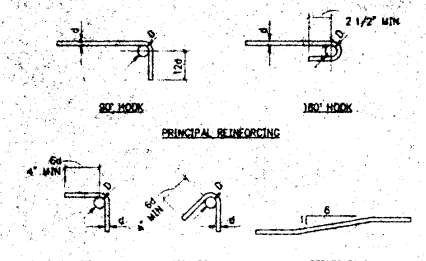
Two Rivers Convention Center

M/M Project No: 14366.01
SD Project No: 1924

ROOF FRAMING PLAN - ENLARGED

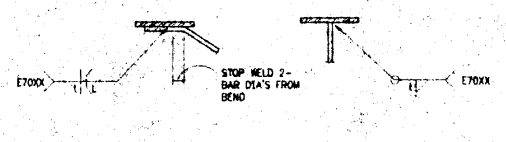
Drawn by: DNE
Checked by: BEN

S2.31



NOTES:
1. ALL BENDS SHALL BE MADE COLD.
2. #14 & #18 BARS SHALL BE BEND TESTED & LAB APPROVED PRIOR TO BENDING.
3. RE: ACI-318 FOR 'D'.

A TYP BAR BENDS
NO SCALE

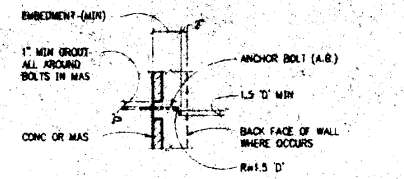


BAR SIZE	WELD t	SIZE L
#3	3/16"	2"
#4	1/4"	2 1/2"
#5	5/16"	3"
#6	3/8"	3 1/2
#7	7/16"	4"

BAR SIZE	WELD t
#3	1/4"
#4	5/16"
#5	3/8"
#6	7/16"
#7	1/2"

NOTES:
1. ALL REINF TO BE WELDED SHALL CONFORM TO ASTM A706.

B TYP REBAR WELD SCHED
NO SCALE



BOLT SIZE	EMBEDMENT	MIN SPACING	MIN EDGE DIST
1/2"	4"	6"	3"
5/8"	4"	7 1/2"	3 3/4"
3/4"	5"	9"	4 1/2"
7/8"	6"	10 1/2"	5 1/4"

PROVIDE 3/4"ø ANCHOR BOLTS UNLESS NOTED OTHERWISE
HEADED BOLTS MAY BE PROVIDED IN LIEU OF HOOKS.

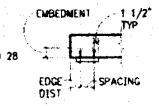
C TYP ANCHOR BOLT SCHEDULE
NO SCALE

IN CONCRETE HILTI 'KWIK' BOLTS ICBO # 2156			
BOLT SIZE	MIN EMBEDMENT	MIN SPACING	EDGE DISTANCE
1/4"ø	2"	3 1/2" 3 1/2"	
3/8"ø	3"	5" 5"	
1/2"ø	4"	7" 6 3/4"	
5/8"ø	5"	9" 8 1/4"	
3/4"ø	6"	10" 9 3/4"	
1"ø	8"	14" 13 1/2"	

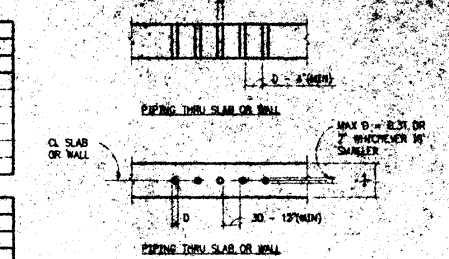
IN CONCRETE BLOCK HILTI SLEEVE ANCHORS			
BOLT SIZE	MIN EMBEDMENT	MIN SPACING	EDGE DISTANCE
1/4"ø	1"	2" 2"	
5/16"ø	1"	2" 2"	
3/8"ø	1 1/4"	2 1/2" 2 1/2"	
1/2"ø*	1 1/2"	3" 3"	
5/8"ø*	2"	4" 4"	
3/4"ø*	2"	4" 4"	

* SOLID GROUT CELLS TO RECEIVE BOLTS

NOTES:
1. PROVIDE 3/8"ø FASTENERS UNLESS NOTED OTHERWISE.
2. INSTALL PER MANUFACTURERS RECOMMENDATIONS
3. DO NOT INSTALL UNTILL CONCRETE & GROUT HAS REACHED 28 DAYS STRENGTH



D TYP EXPANSION BOLT SCHED
NO SCALE



NOTE: WHERE CLEAR DISTANCE BETWEEN SLEEVES IS IMPOSSIBLE THIS AREA SHALL BE TREATED AS A SLAB OR WALL OPENING REINFORCED AS PER TYPICAL OPNG DTLS ~ SCH 40 SLEEVES ARE REQUIRED PER UBC 2606 (C)6 IF SLEEVES ARE LOCATED IN CRITICAL AREAS AS DETERMINED BY THE STRUCTURAL ENGINEER.

E PIPING OR CONDUIT IN OR THRU SLAB OR WALL
NO SCALE

SCHEDULE I
LAP SPLICE 'L' IN INCHES

BAR SIZE	f'c = 3,000 PSI CLASS A	f'c = 3,000 PSI CLASS B	f'c = 4,000 PSI CLASS A	f'c = 4,000 PSI CLASS B	f'c = 5,000 PSI CLASS A	f'c = 5,000 PSI CLASS B
#3	17	22	15	19	13	17
#4	22	29	19	25	17	23
#5	28	36	24	31	22	28
#6	33	43	29	37	26	34
#7	48	63	42	54	38	49
#8	55	72	48	62	43	56
#9	62	81	54	70	48	63
#10	78	102	68	88	61	79
#11	96	125	83	108	74	97

LOCATION IN STRUCTURE ~ BOTTOM BARS OF BEAMS, WALLS, JOIST AND SLABS. TOP BARS OF SLABS 14" OR LESS IN DEPTH AND VERTICAL STEEL.

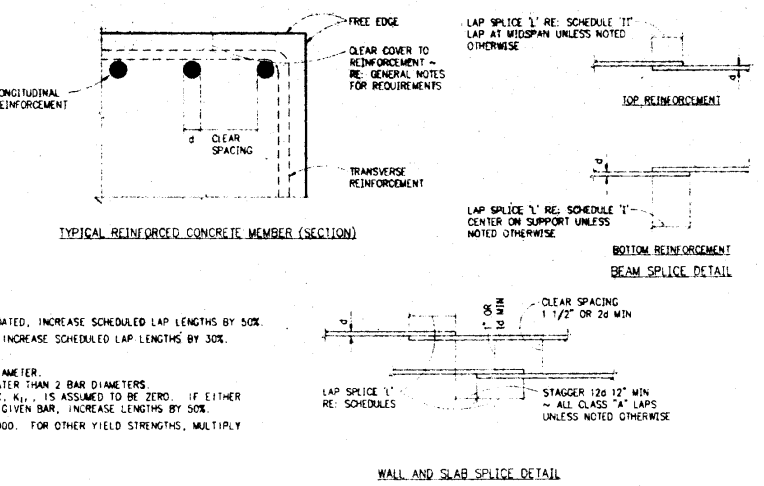
SCHEDULE II
LAP SPLICE 'L' IN INCHES

BAR SIZE	f'c = 3,000 PSI CLASS A	f'c = 3,000 PSI CLASS B	f'c = 4,000 PSI CLASS A	f'c = 4,000 PSI CLASS B	f'c = 5,000 PSI CLASS A	f'c = 5,000 PSI CLASS B
#3	22	28	19	24	17	22
#4	29	37	25	33	23	29
#5	36	47	31	41	28	36
#6	43	56	37	49	34	43
#7	63	81	54	71	49	63
#8	72	93	62	81	56	72
#9	81	105	70	91	63	81
#10	102	132	88	115	79	103
#11	125	162	108	141	97	126

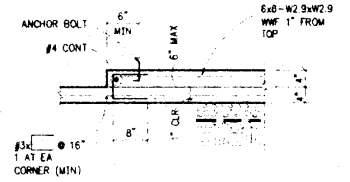
LOCATION IN STRUCTURE ~ TOP BARS IN BEAMS AND JOISTS AND SLABS GREATER THAN 14" IN DEPTH HORIZONTAL WALL STEEL

LAP SPLICE NOTES:
1. ALL SPLICES SHALL BE WIRED IN CONTACT.
2. ALL SPLICES ARE "CLASS B" UNLESS NOTED OTHERWISE
3. SMALLER BAR LAP LENGTH MAY BE USED WHEN SPLICING DIFFERENT SIZED BARS.
4. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED.
5. BUNDLED BAR SPLICES:
   A. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL BE STAGGERED.
   B. INCREASE LAP LENGTH 20% FOR A 3 BAR BUNDLE.
   C. INCREASE LAP LENGTH 33% FOR A 4 BAR BUNDLE.
6. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED 1d (DEVELOPMENT LENGTH) INTO CONCRETE, THIS LENGTH SHALL CORRESPOND TO A "CLASS A" LAP.

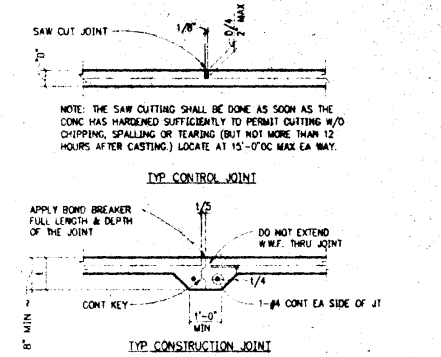
ADJUSTMENT(S) TO GIVEN LAP LENGTHS
1. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LAP LENGTHS BY 50%.
2. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP LENGTHS BY 30%.
3. SCHEDULED LAP LENGTHS ASSUME:
   A. CLEAR COVER IS GREATER THAN BAR DIAMETER.
   B. CLEAR SPACING BETWEEN BARS IS GREATER THAN 2 BAR DIAMETERS.
   C. THE TRANSVERSE REINFORCEMENT INDEX, K_{tr}, IS ASSUMED TO BE ZERO. IF EITHER CONDITION A OR B IS NOT MET FOR A GIVEN BAR, INCREASE LENGTHS BY 50%.
4. SPLICE LENGTHS NOTED BASED ON F_y = 60,000. FOR OTHER YIELD STRENGTHS, MULTIPLY SPLICE LENGTHS NOTED BY F_y/60,000



RE: ARCH FOR SIZE & LOCN OF CURBS ~ RE: ARCH & MECH DWGS FOR INSERTS ~ TYP

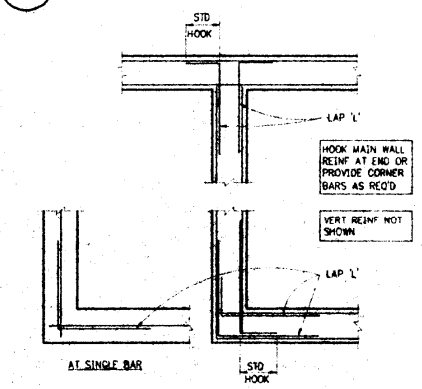


TYPICAL MECH/ELEC HOUSEKEEPING PAD
NO SCALE

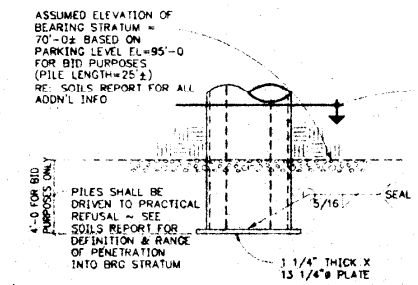


H TYP SLAB ON GRADE DETAILS
NO SCALE

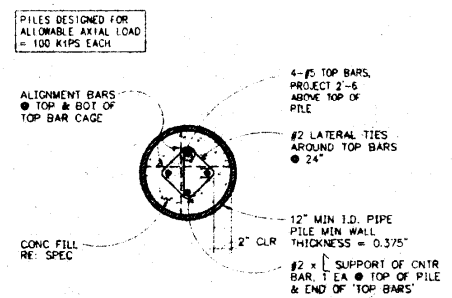
F REINFORCING BAR - LAP SPLICE/DEVELOPMENT LENGTH SCHEDULE
NO SCALE



J TYP HORIZ REINF IN FTG'S, GR BMS AND WALLS
NO SCALE

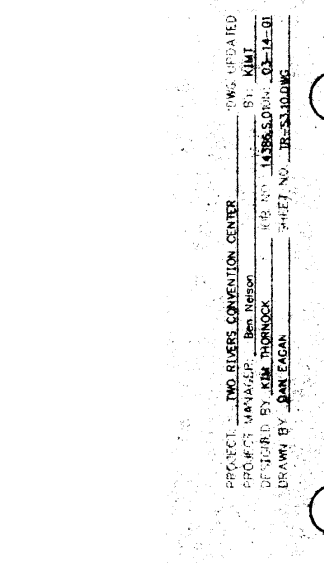


K TYPICAL PILE DETAILS
NO SCALE

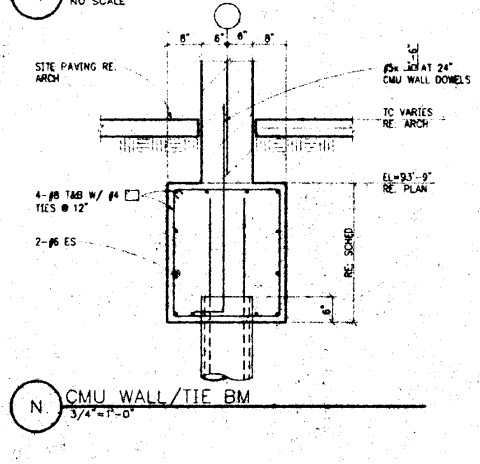


PILE CAP/TIE BEAM SCHEDULE				
MARK	WIDTH	LENGTH	DEPTH	REFERENCE DTL
PC-A	3'-0"	5'-0"	2'-9"	M/S3.10
PC-B	2'-4"	CONT	2'-9"	N, P/ S3.10
PC-C	3'-0"	CONT	2'-9"	Q/ S3.10
PC-D	11'-4"	RE: PLAN	2'-0"	R/ S3.11
PC-E	3'-0"	RE: PLAN	2'-9"	N/ S3.11

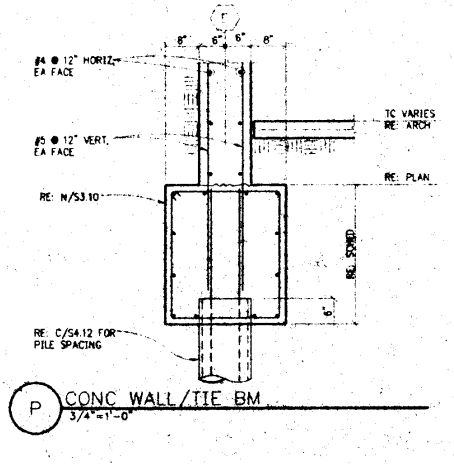
L PILE CAP SCHEDULE
NO SCALE



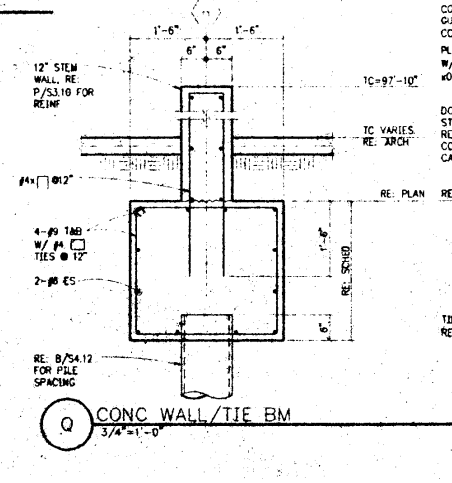
M CONC COLUMN/PILE CAP
3/4"=1'-0"



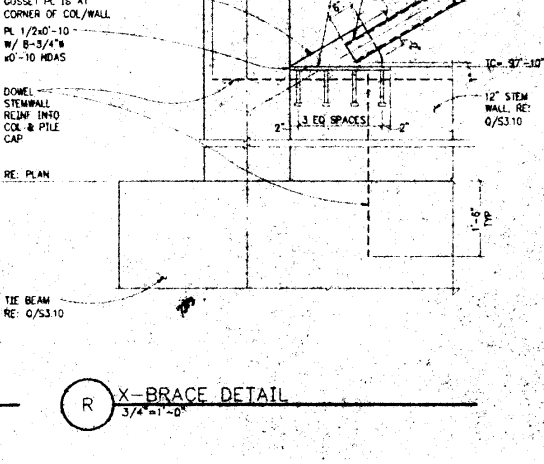
N CMU WALL/TIE BM
3/4"=1'-0"



P CONC WALL/TIE BM
3/4"=1'-0"



Q CONC WALL/TIE BM
3/4"=1'-0"



R X-BRACE DETAIL
3/4"=1'-0"

SINK COMBS DETHLEFS
MARTIN / MARTIN
CONSULTING ENGINEERS

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS &	2/16/01
CONST DOCS &	3/16/01
ADDENDUM	3/28/01
BULLETIN #1	4/9/01
CONST USE	4/26/01

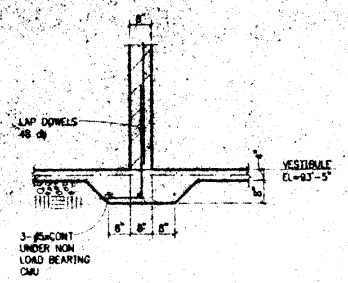
Two Rivers Convention Center

W/M Project No: 14386.S(0)
XCEL Project No: 9224

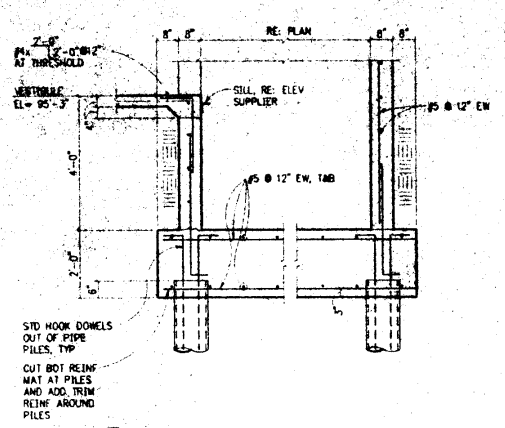
TYPICAL FOUNDATION DETAILS & SCHEDULES

Drawn By: DNE
Checked By: CBM

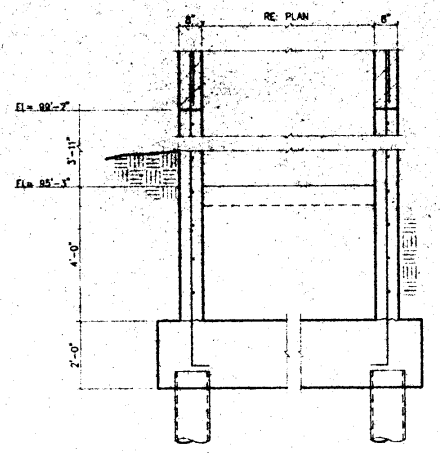
S3.10



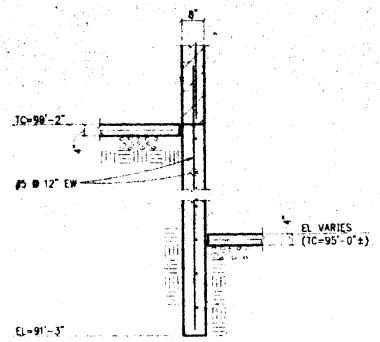
A THICKENED SLAB-ON-GRADE
1/2"=1'-0"



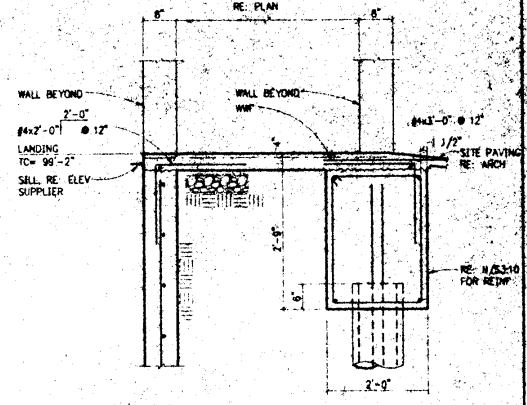
B ELEVATOR PIT SECTION
1/2"=1'-0"



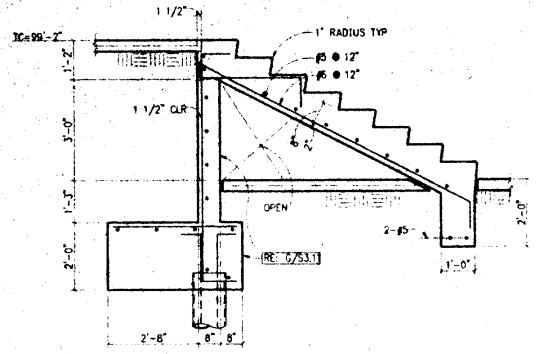
C ELEVATOR PIT SECTION
1/2"=1'-0"



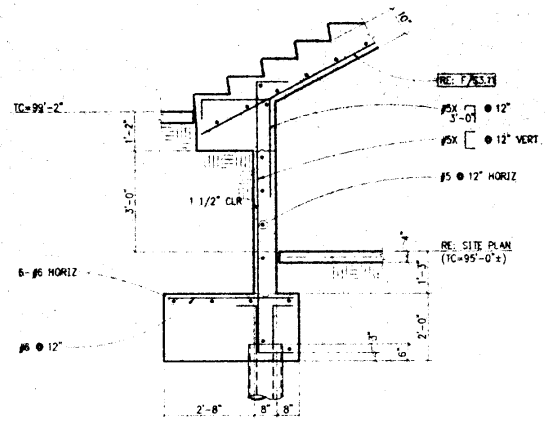
D RETAINING WALL SECTION
1/2"=1'-0"



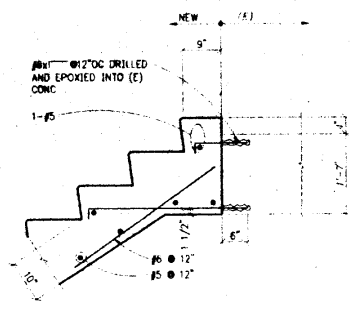
E ELEVATOR LANDING
3/4"=1'-0"



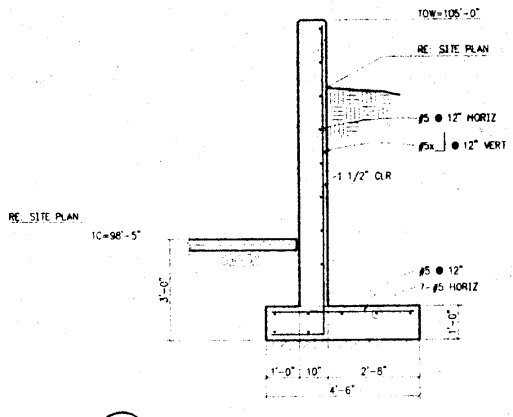
F SOUTH STAIR DETAIL
1/2"=1'-0"



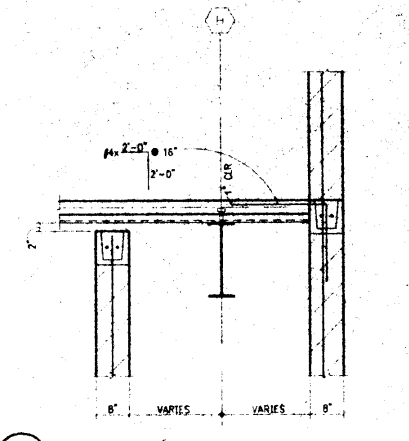
G SOUTH STAIR DETAIL
1/2"=1'-0"



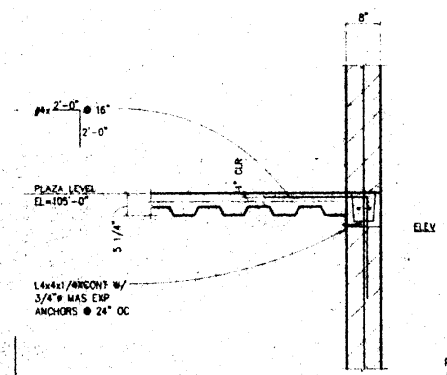
H SOUTH STAIR DTL
3/4"=1'-0"



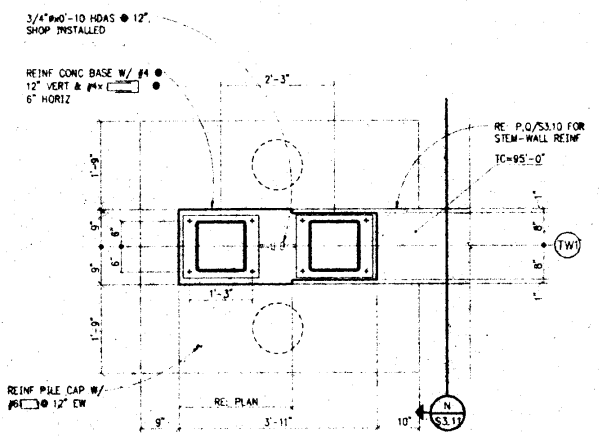
J TRASH ENCLOSURE SITE WALL
1/2"=1'-0"



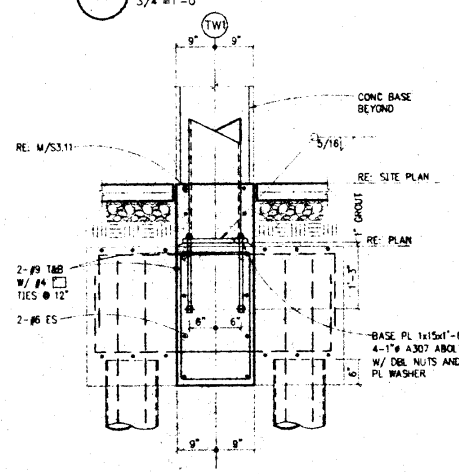
K CMU WALL/BM
3/4"=1'-0"



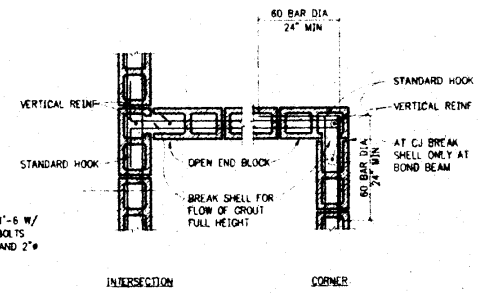
L CMU WALL/SLAB
3/4"=1'-0"



M SIDE WALL BASE FDN
3/4"=1'-0"



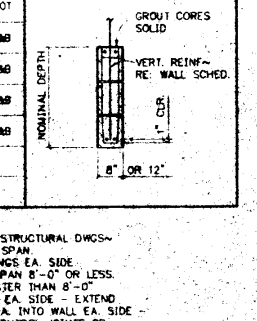
N SIDE WALL BASE FDN
3/4"=1'-0"



P TYPICAL MASONRY WALL REINFORCING DETAILS
NO SCALE

REINFORCED MAS LINTEL SCHED

TYPE	CLEAR SPAN	NOMINAL DEPTH	REINF.	TYPICAL DETAIL
A	0'-0 TO 4'-0	8"	2 - #4 BOT	
A	OVER 4'-0 TO 6'-8	16"	2 - #4 TAB	
A	OVER 6'-8 TO 8'-8	16"	2 - #5 TAB	
A	OVER 8'-8 TO 10'-8	24"	2 - #5 TAB	
A	OVER 10'-8 TO 13'-10	40"	2 - #6 TAB	



NOTES:
1. ALL LINTELS TYPE 'A' UNLESS NOTED ON STRUCTURAL DWGS- RE: ARCH DWGS FOR LOCATION & CLEAR SPAN
2. LINTELS SHALL SPAN CONT. BETW. BEARINGS EA. SIDE.
3. PROVIDE 8" (MIN.) BEARINGS FOR CLR. SPAN 8'-0" OR LESS. 16" (MIN.) BEARING FOR CLR. SPAN GREATER THAN 8'-0"
4. EXTEND BOT. REINF. TO END OF BEARING EA. SIDE - EXTEND TOP REINF. WHERE POSSIBLE, 40 BAR DIA. INTO WALL EA. SIDE - TERMINATE TOP REINF. W/ STD. HK AT CONTROL JOINTS OR FREE EDGES.

Q MASONRY LINTEL SCHEDULE (WALLS)
NO SCALE

PROJECT: TWO RIVERS CONVENTION CENTER — Dwg. No. (PO.) TBD
PROJECT MANAGER: Bill Nelson — By: KMT
DESIGNED BY: JIM BROOK — JOB No.: 14388.S1 — DATE: 03-14-01
DETAILED BY: KEN INGBROOK — SHEET No.: S3.11 — DRAWN: 03-14-01
CHECKED BY: DAN EAGAN — PROJECT No.: 99-S11.DWG

SINK COMBS DETHLEFS

MARTIN / MARTIN

Issues/Revisions		Date
SCHEMATIC DESIGN		9/8/00
DESIGN DEVELOPMENT		12/19/00
STEEL BID PACKAGE		1/26/01
PROGRESS DWGS &	1	3/16/01
CONST DOCS. &	2	3/16/01
ADDENDUM	3	3/28/01
BULLETIN #1	4	4/5/01
CONST USE		4/26/01

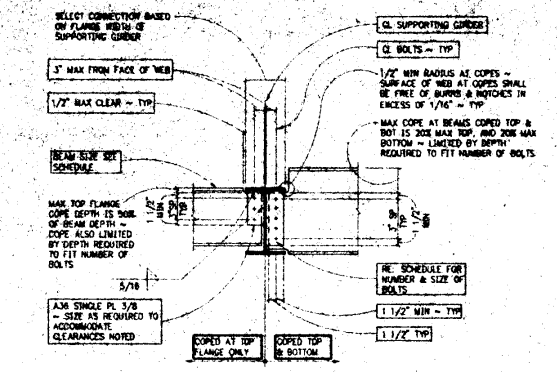
Two Rivers Convention Center

M/M Project No: 14388.S01
SCD Project No: 9979

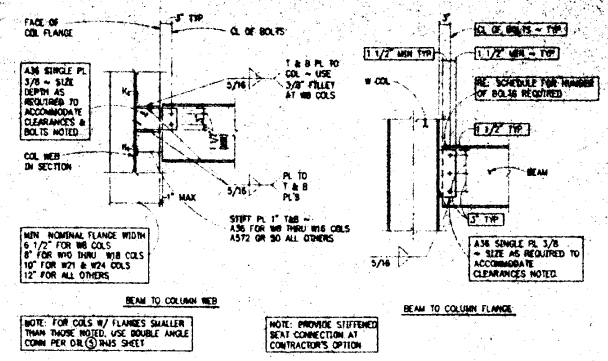
FOUNDATION AND MASONRY DETAILS

Drawn by: DNE
Checked by: DBN

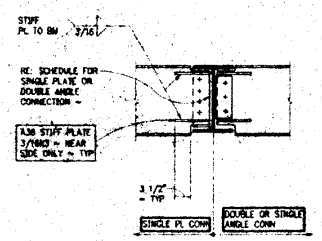
S3.11



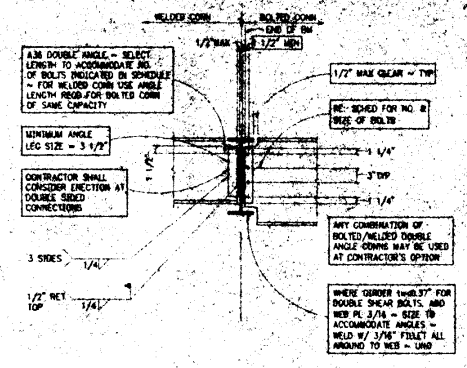
1 BEAM/GIRDER SINGLE PL CONN



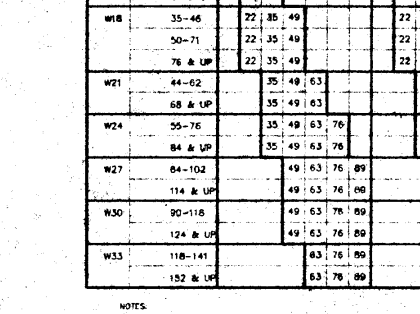
2 SINGLE PL BM/COL CONN



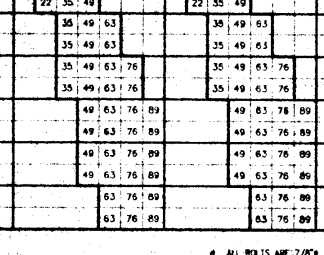
3 REINFORCED BEAM SECTION



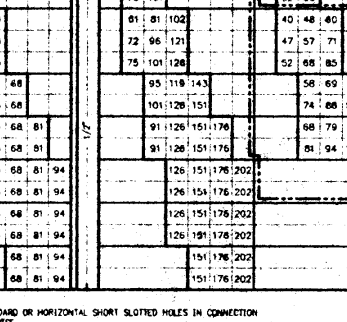
4 BEAM/GIRDER DBL ANGLE CONN



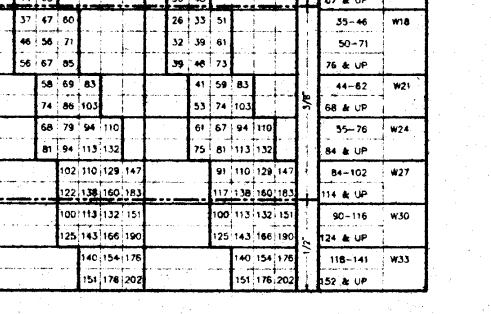
5 DBL ANGLE CONN TO W COL



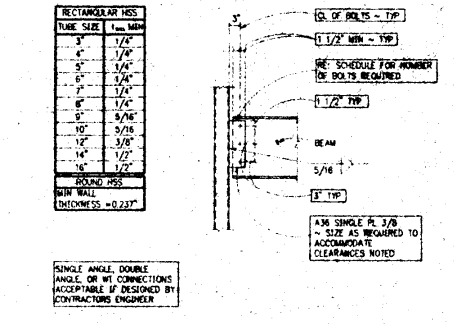
6 SLOPED MEMBER COPE GEOMETRY



7 BEAM TO BEAM CONNECTION



8 BEAM/GIRDER SINGLE ANGLE CONN



9 SINGLE ANGLE CONN TO W COL WEB

STEEL CONNECTION SCHEDULE

CONNECTION CONDITION / GEOMETRY	SINGLE PLATE/SINGLE ANGLE/SKEWED CONNECTION - MAX REACTION (KIPS)	DOUBLE ANGLE CONNECTION - MAX REACTION (KIPS)
SINGLE PLATE	UNCOPED; by GIRDER=6-1/4" (c=2-7/8" MAX)	UNCOPED; by GIRDER=8-1/4" (c=3" MAX); COPE LENGTH c = 3 1/8" MAX: by GIRDER=8-1/4" (c=3" MAX); COPE LENGTH c = 4" MAX: by GIRDER=12-1/4" (c=5" MAX); COPE LENGTH c = 6" MAX: by GIRDER=12-1/4" (c=6" MAX)
SINGLE ANGLE	UNCOPED; by GIRDER=6-1/4" (c=3-1/8" MAX)	UNCOPED; by GIRDER=8-1/4" (c=4" MAX); COPE LENGTH c = 3 1/8" MAX: by GIRDER=8-1/4" (c=4" MAX); COPE LENGTH c = 4" MAX: by GIRDER=12-1/4" (c=5" MAX); COPE LENGTH c = 6" MAX: by GIRDER=12-1/4" (c=6" MAX)
SINGLE PLATE, OC_2	UNCOPED; by GIRDER=6-1/4" (c=3-1/8" MAX)	UNCOPED; by GIRDER=8-1/4" (c=4" MAX); COPE LENGTH c = 3 1/8" MAX: by GIRDER=8-1/4" (c=4" MAX); COPE LENGTH c = 4" MAX: by GIRDER=12-1/4" (c=5" MAX); COPE LENGTH c = 6" MAX: by GIRDER=12-1/4" (c=6" MAX)
SKEWED CONN OC_1	UNCOPED; by GIRDER=5-3/4" (c=3-1/8" MAX)	UNCOPED; by GIRDER=7-3/8" (c=4" MAX); COPE LENGTH c = 3 1/8" MAX: by GIRDER=7-3/8" (c=4" MAX); COPE LENGTH c = 4" MAX: by GIRDER=8" (c=6" MAX); COPE LENGTH c = 6" MAX: by GIRDER=10-7/8" (c=8" MAX)
SKEWED CONN OC_2	UNCOPED; by GIRDER=4-1/4" (c=3-1/8" MAX)	UNCOPED; by GIRDER=5-1/2" (c=4" MAX); COPE LENGTH c = 3 1/8" MAX: by GIRDER=8" (c=6" MAX); COPE LENGTH c = 4" MAX: by GIRDER=10-1/8" (c=8" MAX)
SKEWED CONN OC_3	UNCOPED; by GIRDER=4-1/4" (c=3-1/8" MAX)	UNCOPED; by GIRDER=4-1/4" (c=6" MAX); COPE LENGTH c = 3 1/8" MAX: by GIRDER=4-1/4" (c=6" MAX); COPE LENGTH c = 4" MAX: by GIRDER=5-3/8" (c=8" MAX)

NUMBER OF BOLTS 7/8"ø A325N

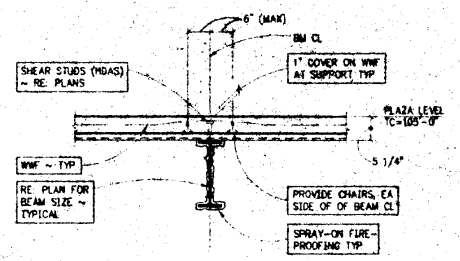
BEAM SIZES AND WEIGHTS	SINGLE PLATE/SINGLE ANGLE/SKEWED CONNECTION - MAX REACTION (KIPS)	DOUBLE ANGLE CONNECTION - MAX REACTION (KIPS)	BEAM SIZES AND WEIGHTS
W8 10-24	10	UNCOPED: 6 / 6 / 6 /

METAL DECK SCHEDULE

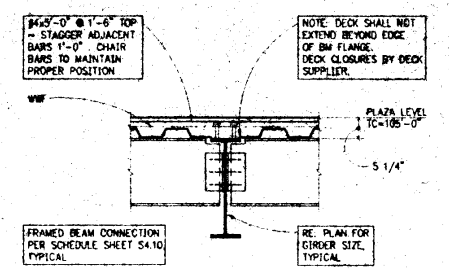
DECK MARK	MAXIMUM CLEAR SPAN (FT)	DECK DEPTH (IN)	CONCRETE SLAB: DEPTH ABOVE DECK (IN)	CONCRETE SLAB: MAXIMUM WET UNIT WEIGHT (PCF)	CONCRETE SLAB: WWF REINF	MINIMUM STEEL SECTION PROPERTIES (PER FOOT WIDTH): 3-SPAN CONDITION: I (IN⁴)	3-SPAN CONDITION: S(POS) (IN³)	3-SPAN CONDITION: S(NEG) (IN³)	2-SPAN CONDITION: I (IN⁴)	2-SPAN CONDITION: S(POS) (IN³)	2-SPAN CONDITION: S(NEG) (IN³)	1-SPAN CONDITION: I (IN⁴)	1-SPAN CONDITION: S(POS) (IN³)	1-SPAN CONDITION: S(NEG) (IN³)	REMARKS
B1	9'-6"	2	3.25	118	6x6 W2.9xW2.9	0.557	0.512	0.848	0.557	0.512	0.518	0.557	0.512	---	
B2	3'-0"	2	3.25	118	6x6 W2.9xW2.9	0.418	0.355	0.365	0.418	0.355	0.360	0.418	0.355	---	
B3	5'-8"	1.5	---	---	---	0.212	0.234	0.247	0.212	0.239	0.247	---	---	---	TYPE 'B' ROOF DECK

NOTES:
1. DECK YIELD STRESS VARIES, RE: GENERAL NOTES.
2. RE: SPECIFICATIONS FOR DECK FINISHES.
3. ALL DECK SCHEDULED SHALL BE COMPOSITE DECK, U.N.O.
4. COMPOSITE DECK IS SIZED BASED UPON THE FOLLOWING MAXIMUM CONDITIONS:
   a. WET WEIGHT OF CONCRETE = 118 P.S.F. LIGHT WEIGHT AND 145 P.S.F. STONE.
   b. DECK DEFLECTION = 3/4".
   c. SLAB THICKNESS INCREASED BY 1/2" FOR LEVELING.
5. DECK WITH HIGHER YEILD STRESS MAY BE USED WITH SP & SN REQUIRED VALUES ADJUSTED BY THE RATIO OF Fy(NEED)/Fy(PROVIDED).

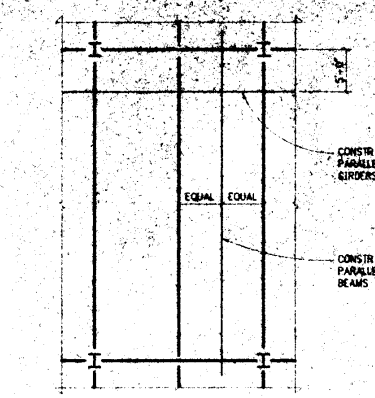
A METAL DECK SCHEDULE
NO SCALE



B TYPICAL COMPOSITE BEAM
NO SCALE

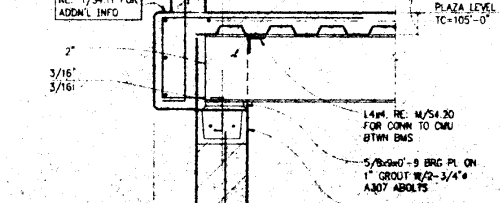


C TYPICAL COMPOSITE GIRDER
NO SCALE



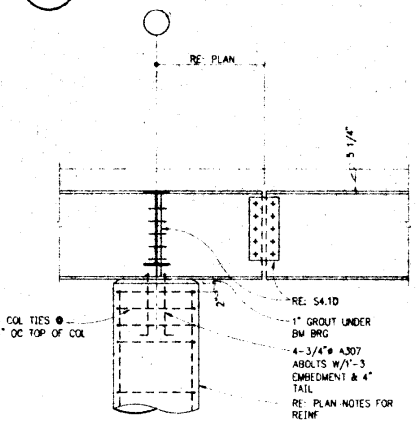
D SUGGESTED SLAB CONSTR JOINTS LOCATIONS
NO SCALE

OPENING SUPPORT SCHEDULE			
DIST "W"	SUPPORT "A"	SUPPORT "B"	REMARKS
LESS THAN 1'-0"	2-#6 T AND B IN SLAB	2-#5 T AND B IN SLAB	EXTEND SUPPORT BOTTOM BARS 2'-0" PAST OPENING EACH SIDE
1'-0" TO 2'-6"	C4x5.4 BELOW SLAB	C4x5.4 BELOW SLAB	
GREATER THAN 2'-6" TO 5'-0"	C5x6.7 BELOW SLAB	C5x6.7 BELOW SLAB	

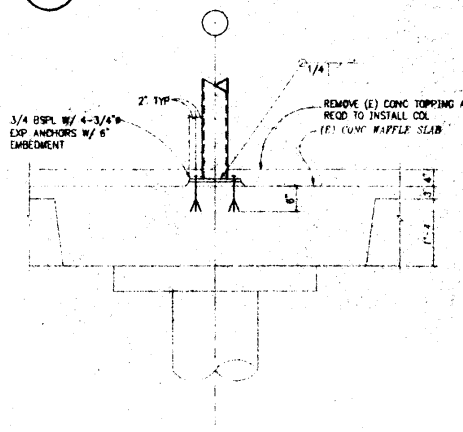


NOTES:
1. PROVIDE SUPPORT MEMBERS AS SHOWN FOR ALL OPENINGS IN 5 1/4" LIGHTWEIGHT COMPOSITE CONCRETE/STEEL DECK SLABS NOT OTHERWISE DETAILED ON STRUCTURAL DRAWINGS.
2. FOR OTHER CONDITION, OR FOR "L" GREATER THAN 10'-0" CONTACT STRUCTURAL ENGINEER FOR REQUIRED SUPPORT DETAILS.

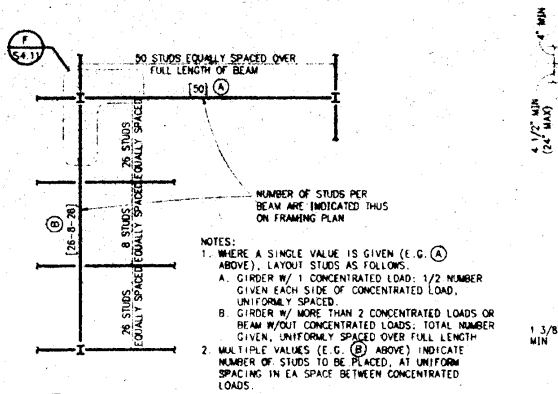
G SLAB OPENING REINFORCING ("L" ≤ 10'-0")
NO SCALE



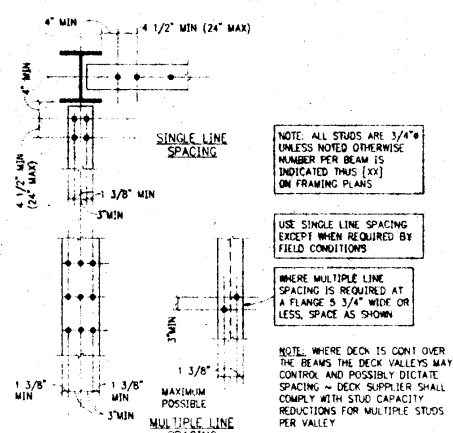
H TYPICAL BEAM SPLICE
3/4"=1'-0"



J NEW COLUMN BSPL CONN
3/4"=1'-0"

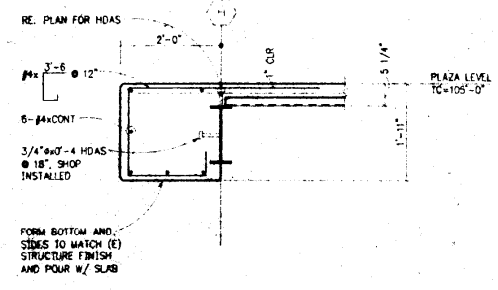


Q CMU PILASTER DTL'S
3/4"=1'-0"

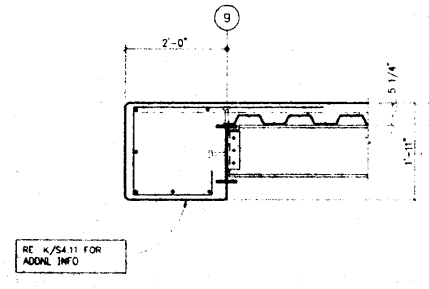


R TYP CMU PILASTER SECTION
3/4"=1'-0"

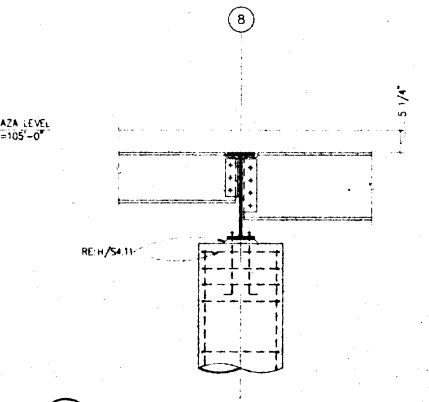
F SHEAR STUD SPACING DETAILS
NO SCALE



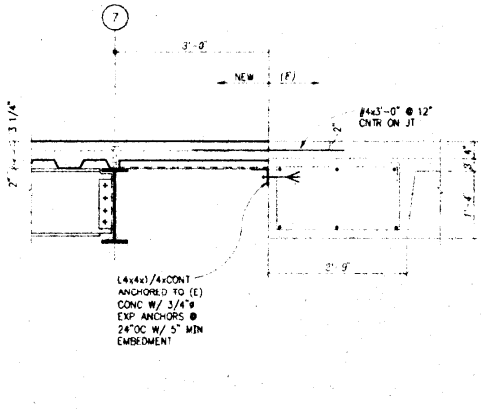
K SLAB EDGE DETAIL
3/4"=1'-0"



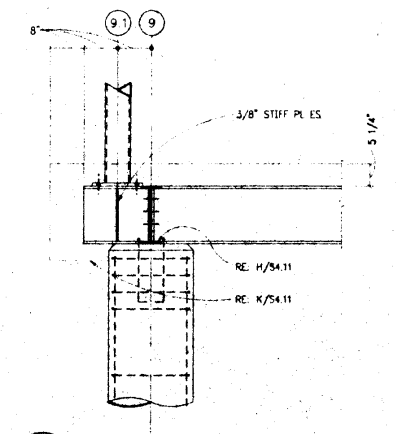
L SLAB EDGE DETAIL
3/4"=1'-0"



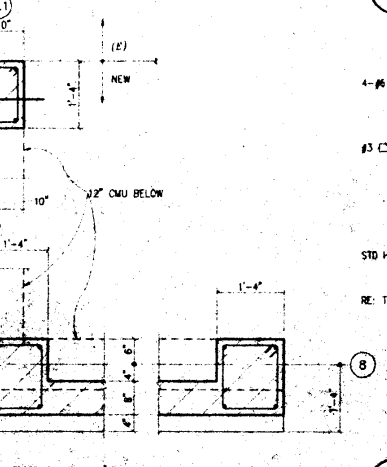
M BEAM/ COL CONN
3/4"=1'-0"



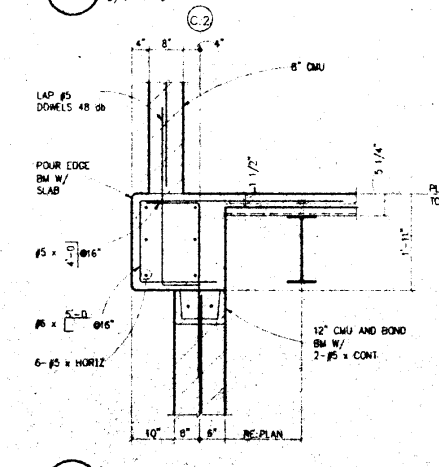
N CONNECTION TO (E) BLDG
3/4"=1'-0"



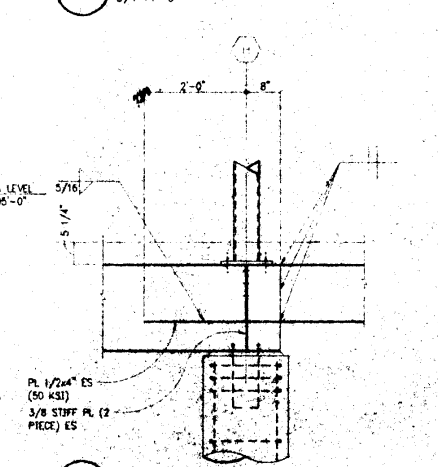
P EDGE COLUMN CONN
3/4"=1'-0"



S SLAB EDGE DTL
3/4"=1'-0"



T SLAB EDGE DTL
3/4"=1'-0"



U NOTCHED BM
3/4"=1'-0"

PROJECT: TWO RIVERS CONVENTION CENTER
PROJECT MGR/DES: Ben Nelson
DESIGNED BY: KIM THORNOCK
DRAWN BY: DAN EAGAN
CHKD BY: BEN
DWG UPDATED: BY: done
CAP NO: 14366.6 DRWN: 03-30-01
SHEET NO: TR-S411.DWG

SINK COMBS DETHLEFS
MARTIN / MARTIN

Issues/Revisions	Date
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS &	2/16/01
CONST DOCS &	3/16/01
ADDENDUM	3/28/01
BULLETIN #1	4/9/01
CONST-USE	4/26/01

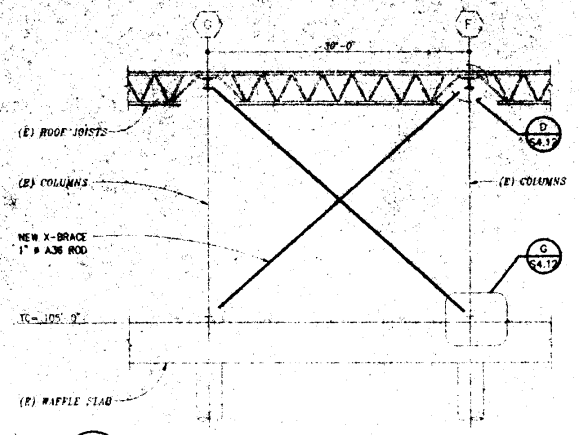
Two Rivers Convention Center

M.M Project No.: 14366.06
SDI Project No.: 9924

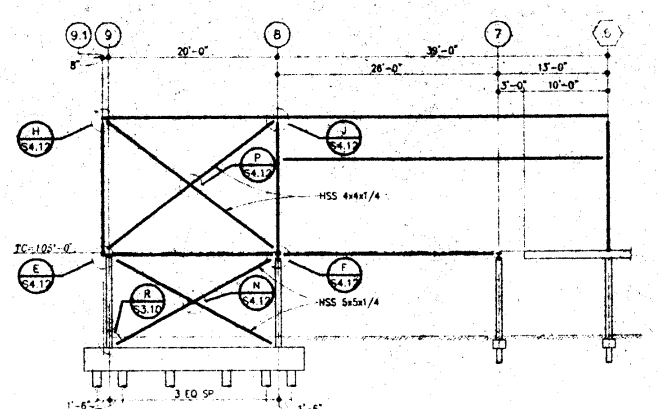
FRAMING DETAILS

Drawn By: DNE
Checked By: BN

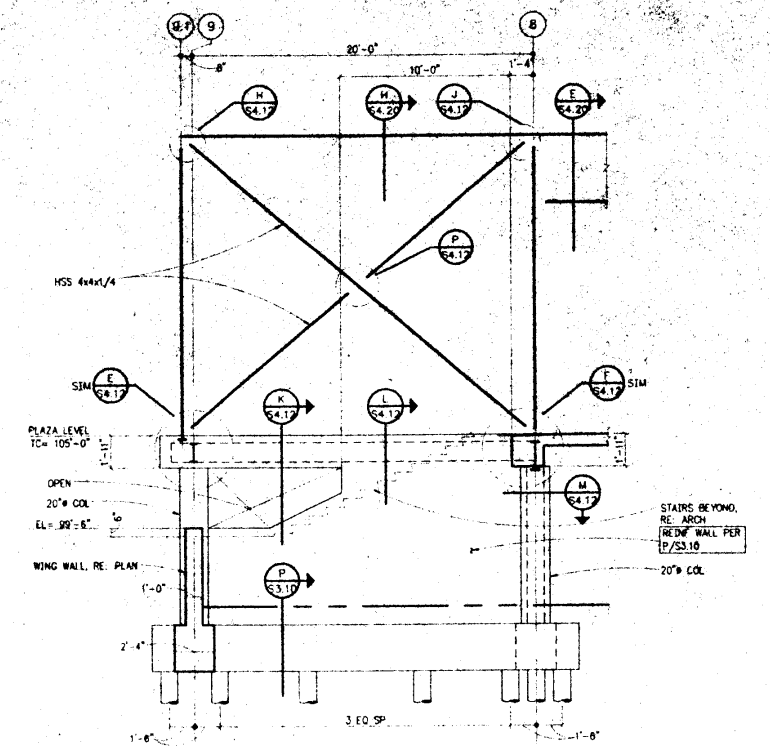
S4.11



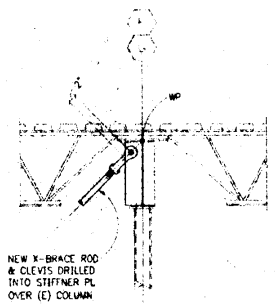
A X-BRACE ON GRID-5
NO SCALE



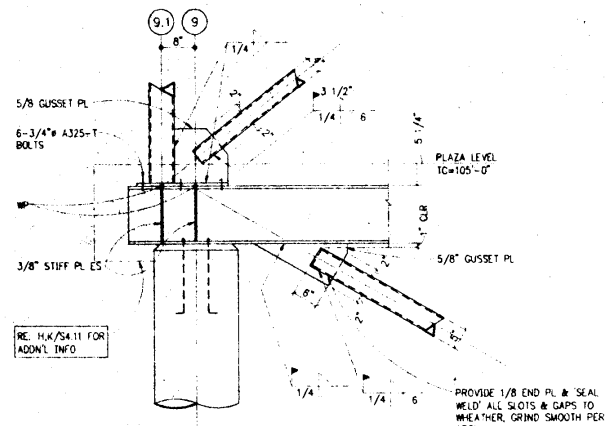
B BRACED FRAME ON GRID-H
NO SCALE



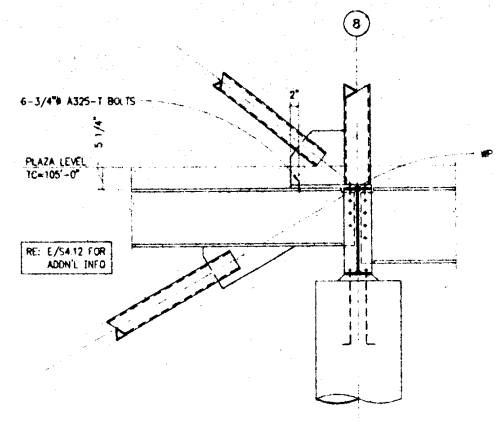
C SHEARWALL ELEVATION ON GRID - E
1/4"=1'-0"



D X-BRACE DTL
3/4"=1'-0"

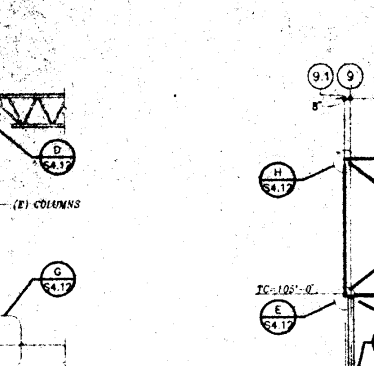


E X-BRACE DTL
3/4"=1'-0"



F X-BRACE DTL
3/4"=1'-0"

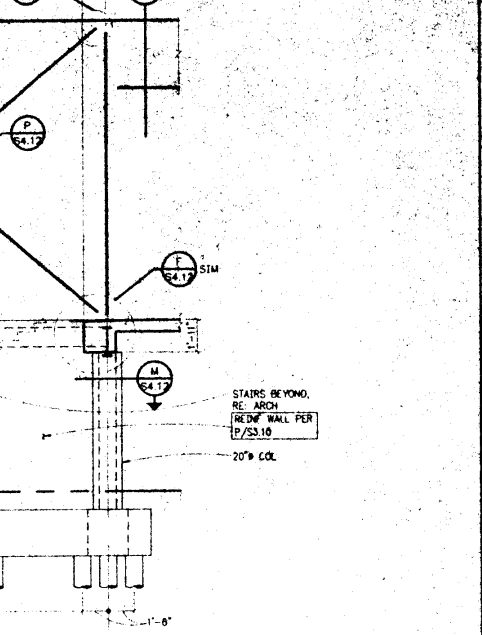
G X-BRACE DTL
3/4"=1'-0"



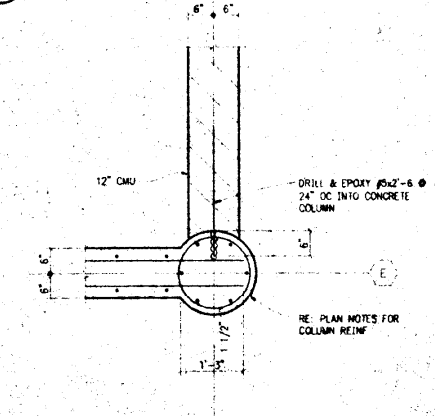
H X-BRACE DTL
3/4"=1'-0"

J X-BRACE DTL
3/4"=1'-0

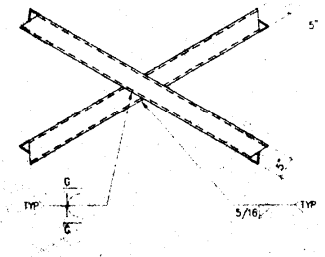
K SOUTH STAIR DTL
3/4"=1'-0



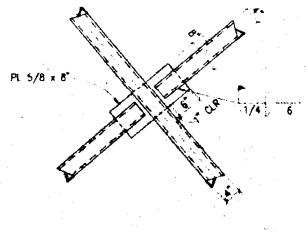
L SOUTH STAIR DTL
3/4"=1'-0



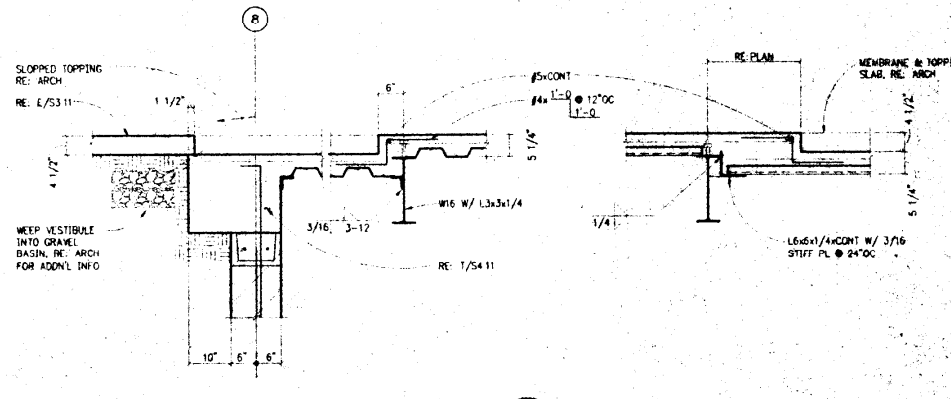
M COLUMN/WALL DTL
3/4"=1'-0"



N EXPOSED X-BRACE DETAIL
3/4"=1'-0



P CONCEALED X-BRACE DTL
3/4"=1'-0



Q ENTRY THRESHOLD DTL
3/4"=1'-0

R ENTRY VESTIBULE
3/4"=1'-0

PROJECT: TWO RIVERS CONVENTION CENTER
PROJECT MANAGER: Ben Nelson
DESIGNED BY: KIM THORNOCK
DRAWN BY: DAN EAGAN
DWG. INITIATED BY: KTMT
DATE: 14JAN5.DGN
SHEET NO: TRcS412.DWG

SINK COMBS DETHLEFS

MARTIN / MARTIN
CONSULTING ENGINEERS

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS &:	2/16/01
CONST DOCS &	3/16/01
ADDENDUM	3/28/01
BULLETIN #1	4/9/01
CONST USE	4/26/01

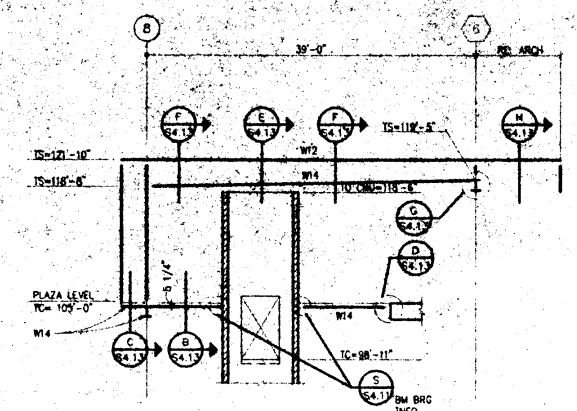
Two Rivers Convention Center

M/V Project No: 1438A.06
CD Project No: 1924

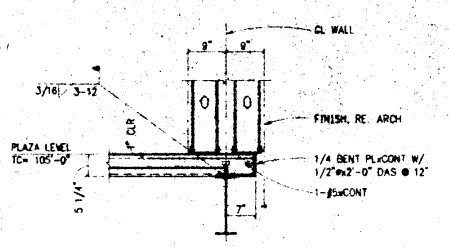
FRAMING DETAILS

Drawn by: DNE
Checked by: KTM/CBN

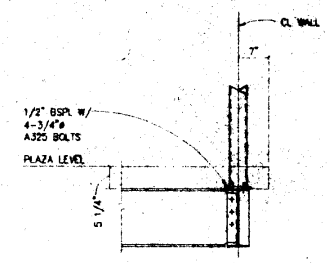
S4.12



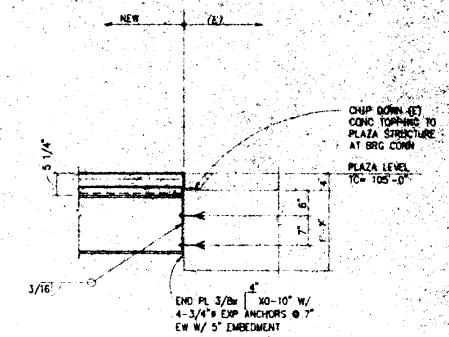
A SIDEWALL ELEVATION
NO SCALE



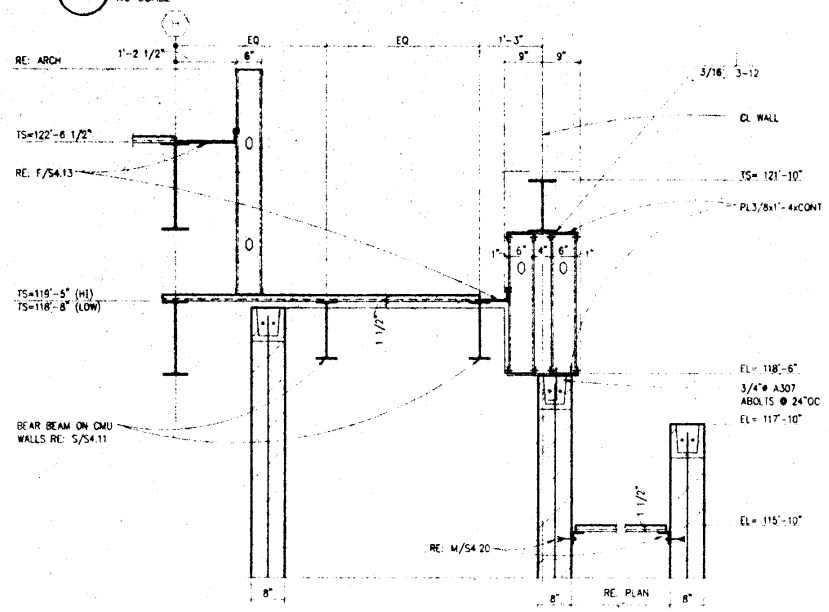
B SLAB EDGE DTL
3/4"=1'-0"



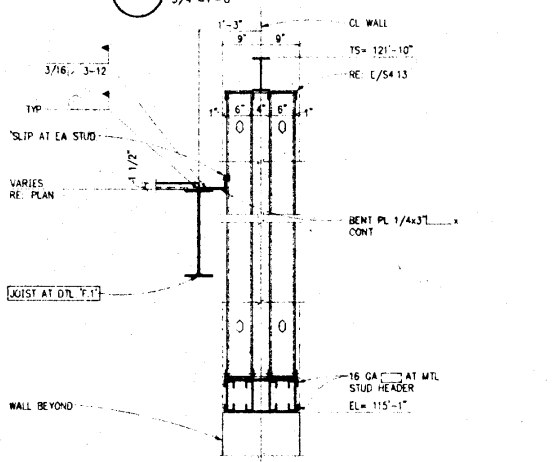
C SLAB EDGE/COLUMN DTL
3/4"=1'-0"



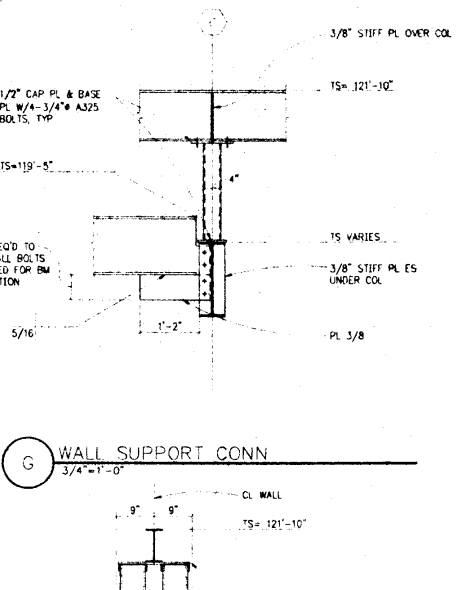
D CONNECTION TO (E) BLDG
3/4"=1'-0"



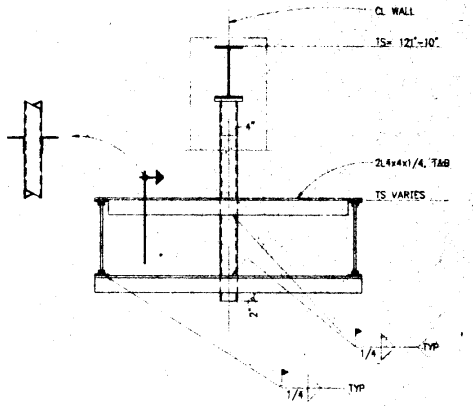
E ELEVATOR SECTION
3/4"=1'-0"



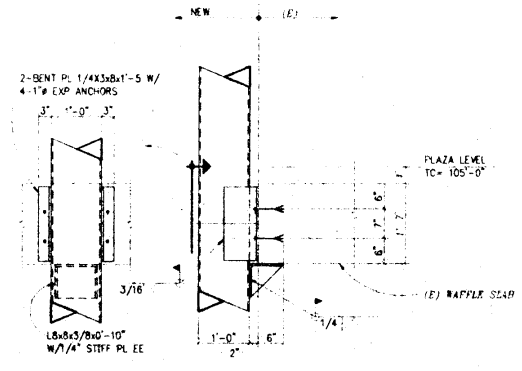
F F.1 ROOF EDGE DTL
3/4"=1'-0"



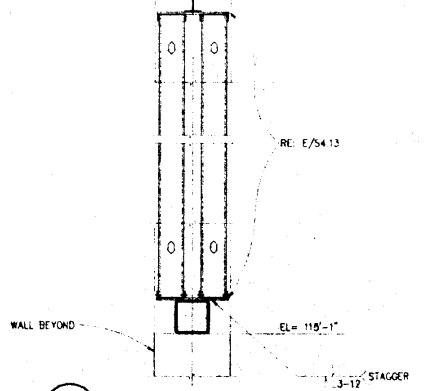
G WALL SUPPORT CONN
3/4"=1'-0"



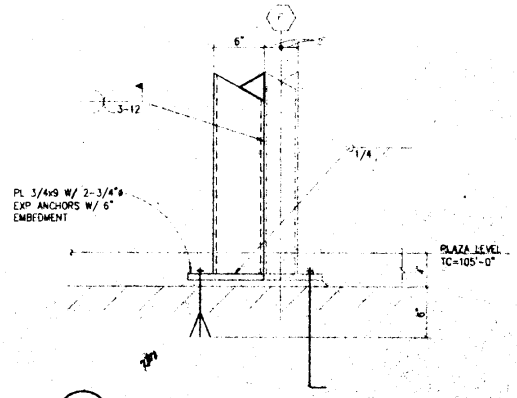
H WALL SUPPORT CONN
3/4"=1'-0"



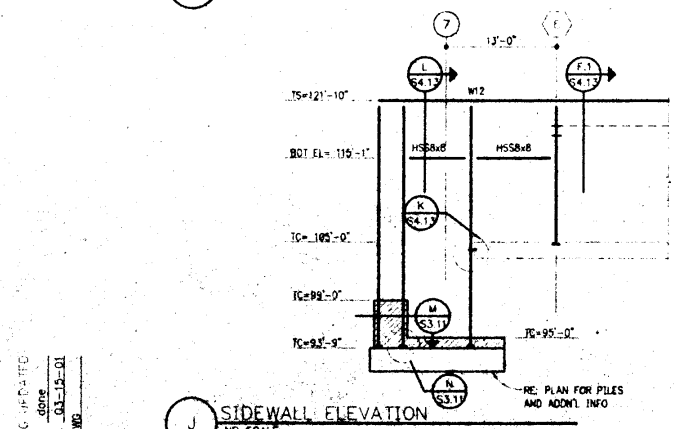
K SIDEWALL COLUMN CONN
3/4"=1'-0"



L SIDEWALL LINTEL
3/4"=1'-0"



M COLUMN BASE PL DTL
1 1/2"=1'-0"



J SIDEWALL ELEVATION
NO SCALE

PROJECT: TWO RIVERS CONVENTION CENTER — DWG. UPDATED
PROJECT MANAGER: Ben Nelson — By: dane
DESIGNED BY: KIM THORNOCK — JOB NO.: 14386.5 — DATE: 03-14-01
DRAWN BY: DAN EAGAN — SHEET NO.: IR-S4.13.DWG

SINK COMBS DETHLEFS
MARTIN / MARTIN

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/25/01
PROGRESS DWGS &	2/16/01
CONST DOCS &	3/16/01
ADDENDUM	3/28/01
BULLETIN #1	4/6/01
CONST USE	4/26/01

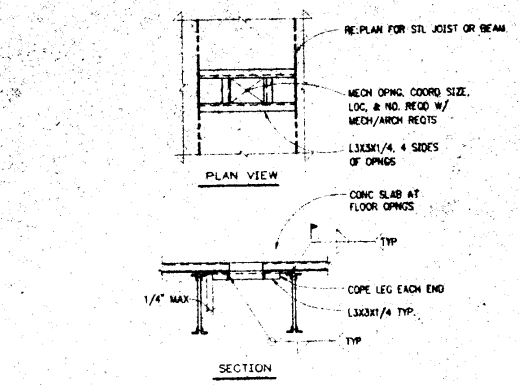
Two Rivers Convention Center

M/V Project No: 14386.5
City Project No: 3824

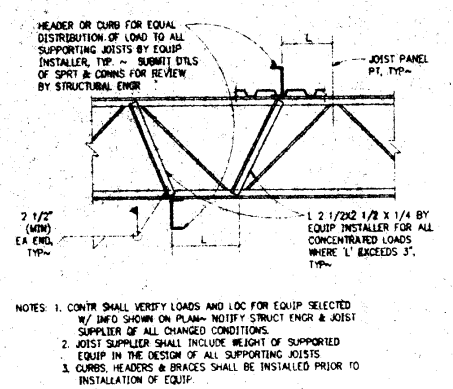
FRAMING DETAILS

Drawn by: DME
Checked by: CBN

S4.13

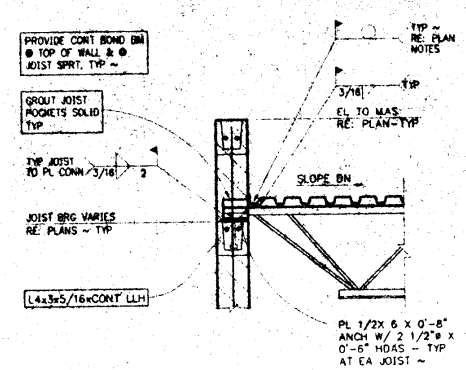


A TYP OPNG FRAMING DTL
NO SCALE

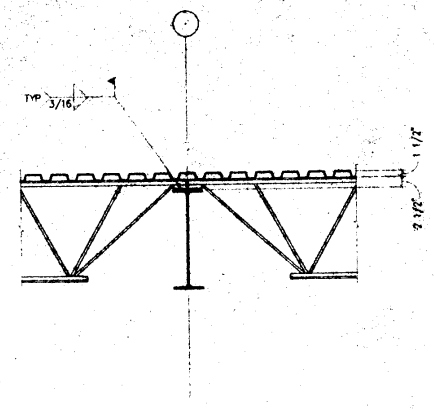


NOTES: 1. CONTR SHALL VERIFY LOADS AND LOC FOR EQUIP SELECTED W/ INFO SHOWN ON PLAN~ NOTIFY STRUCT ENGR & JOIST SUPPLIER OF ALL CHANGED CONDITIONS.
2. JOIST SUPPLIER SHALL INCLUDE WEIGHT OF SUPPORTED EQUIP IN THE DESIGN OF ALL SUPPORTING JOISTS
3. CURBS, HEADERS & BRACES SHALL BE INSTALLED PRIOR TO INSTALLATION OF EQUIP.

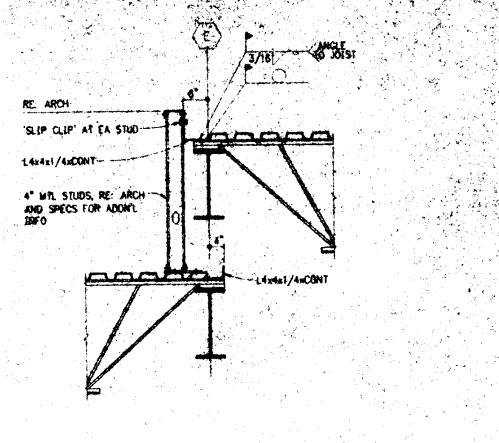
B TYP EQUIP SUPPORT DTL
NO SCALE



C TYP JOIST BRG AT MAS BRG WALL
NO SCALE



D TYPICAL ROOF GIRDER
3/4"=1'-0"



E ROOF STEP DTL
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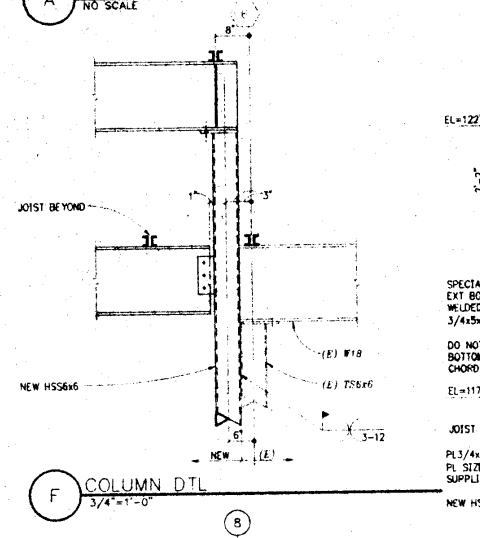
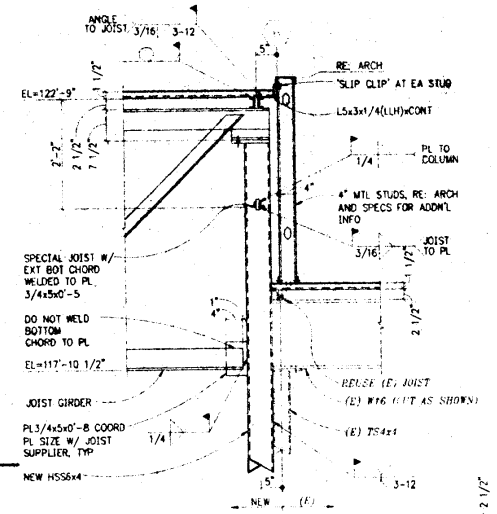
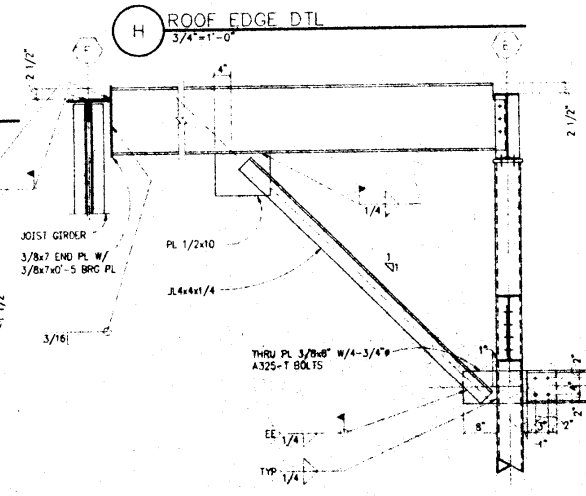


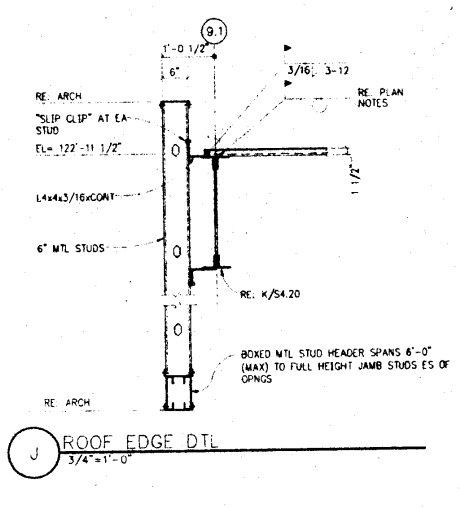
F COLUMN DTL
3/4"=1'-0"



G JOIST GIRDER SUPPORT
3/4"=1'-0"



H ROOF EDGE DTL
3/4"=1'-0"



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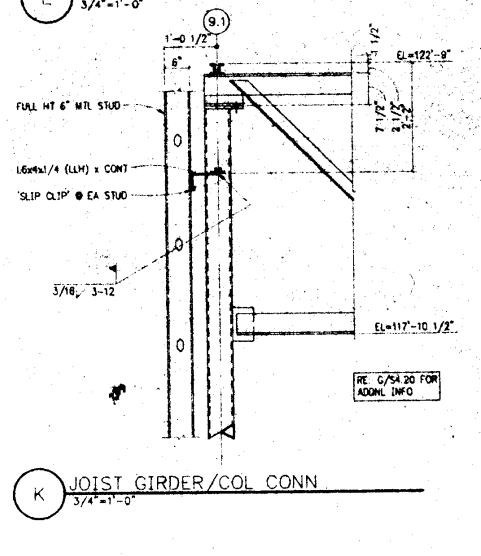
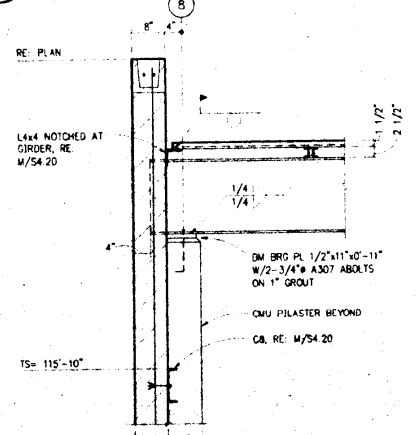


K JOIST GIRDER/COL CONN
3/4"=1'-0"



L BM BEARING DTL
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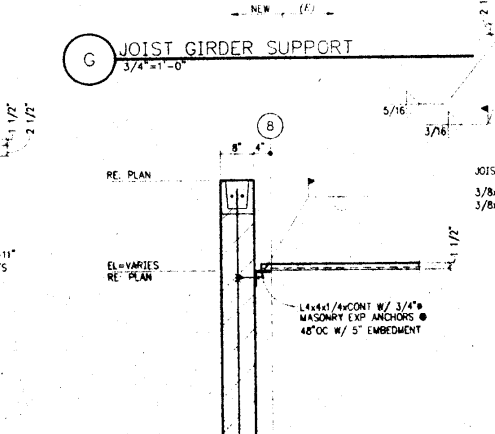
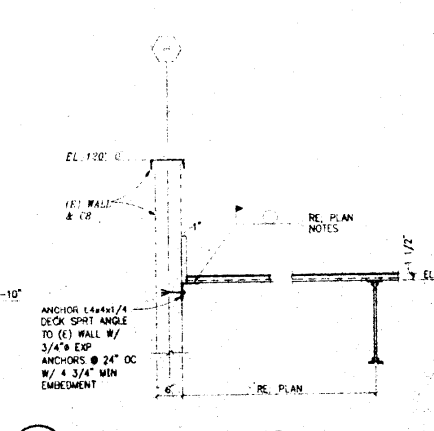
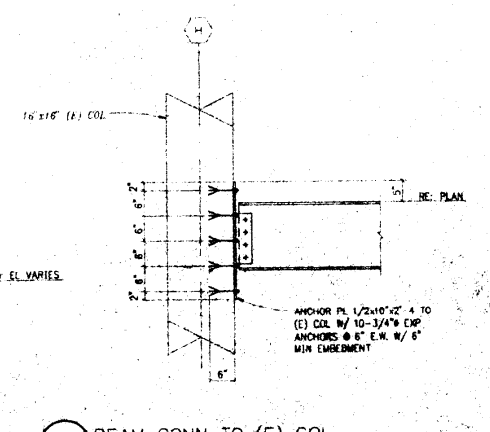


M SHEARWALL /DRAG CONN
3/4"=1'-0"

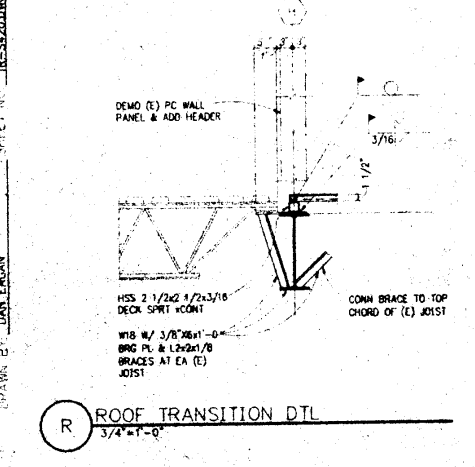
N STRUT/BRACE DTL
3/4"=1'-0"



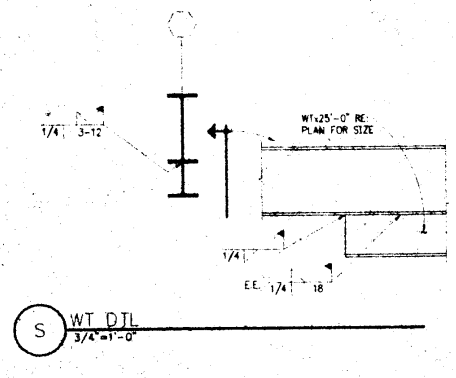
P ROOF TRANSITION DTL
3/4"=1'-0"



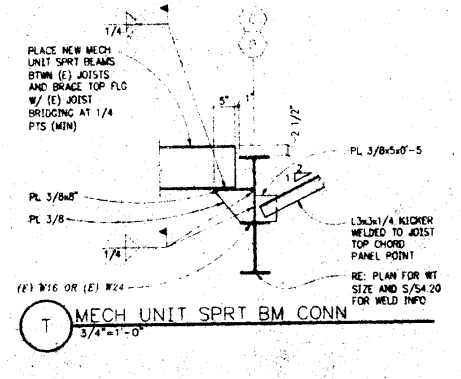
Q BEAM CONN TO (E) COL
3/4"=1'-0"



R ROOF TRANSITION DTL
3/4"=1'-0"



S WT DTL
3/4"=1'-0"



T MECH UNIT SPRT BM CONN
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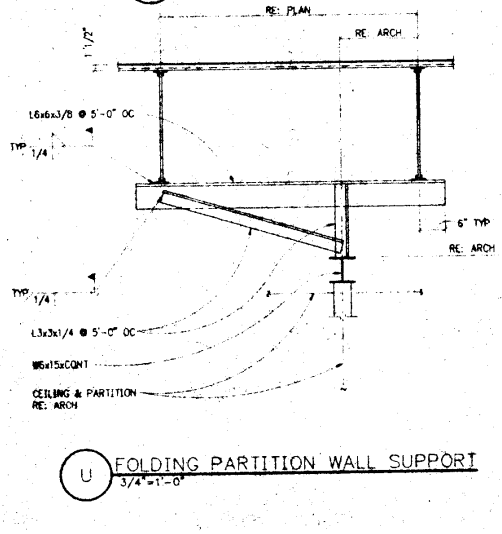
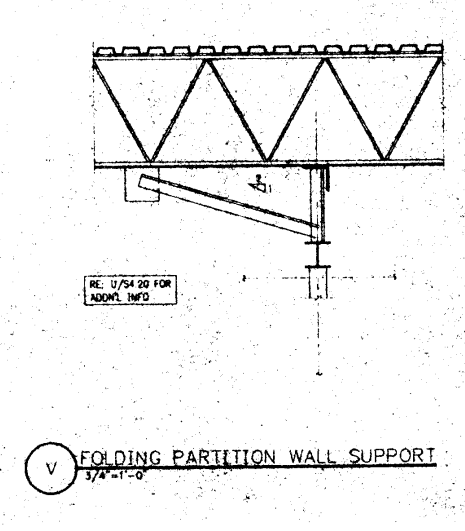


U FOLDING PARTITION WALL SUPPORT
3/4"=1'-0"



V FOLDING PARTITION WALL SUPPORT
3/4"=1'-0"

PROJECT: TWO RIVERS CONVENTION CENTER
PROJECT MANAGER: Ben Nemer
DESIGNED BY: KIM THORNOCK
DRAWN BY: DAN EAGAN
CHK'D BY: KJMT
PROJ. NO.: 14386.S.01
SHEET NO.: TR-S420.DWG
DWG UPDATED: 03-14-01

SINK COMBS DETHLEFS

MARTIN / MARTIN

Issues/Revisions	Date
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS ⚠2	2/16/01
CONST DOCS ⚠3	3/16/01
ADDENDUM ⚠3	3/28/01
BULLETIN #1 ⚠4	4/9/01
CONST USE	4/26/01

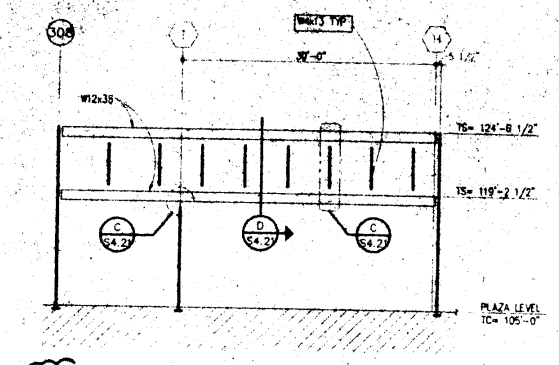
Two Rivers Convention Center

V/M Project No: 14386.S.01
CSD Project No: 9924

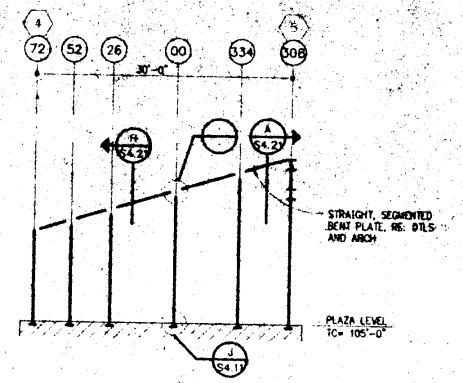
ROOF DETAILS

Drawn by: DME
Checked by: CBH

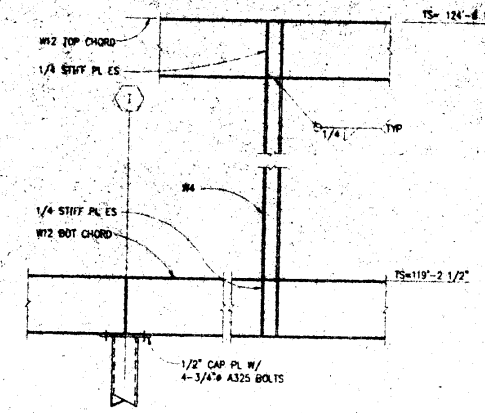
S4.20



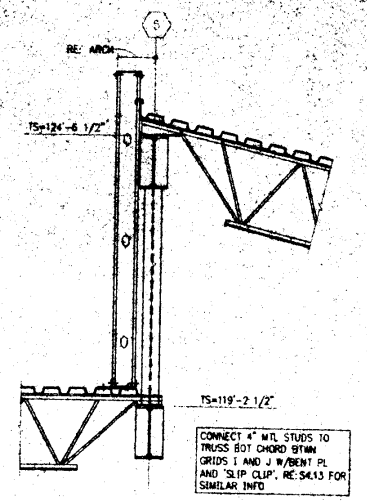
A LOBBY TRUSS ELEVATION
NO SCALE



B CURVED LOBBY WALL ELEVATION
NO SCALE



C TRUSS DTL'S
3/4"=1'-0"



D TRUSS SECTION
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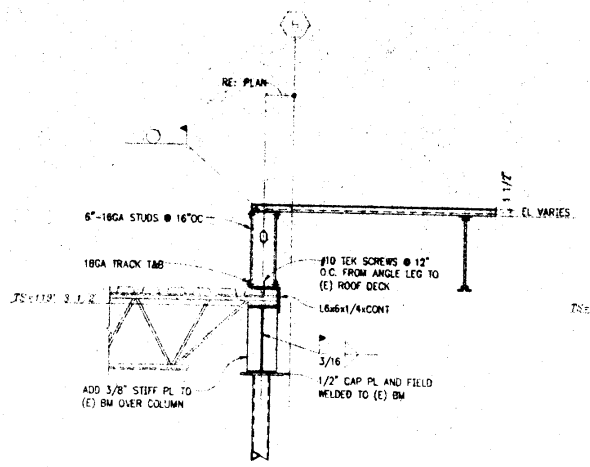
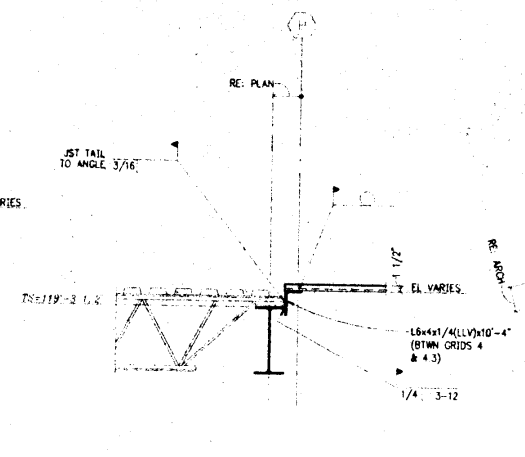
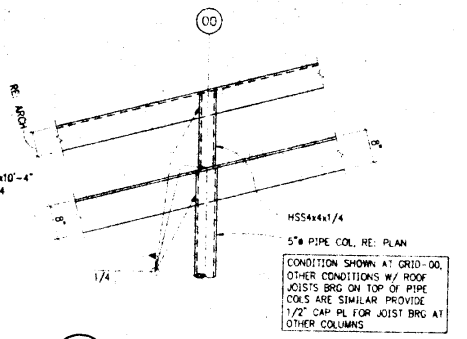


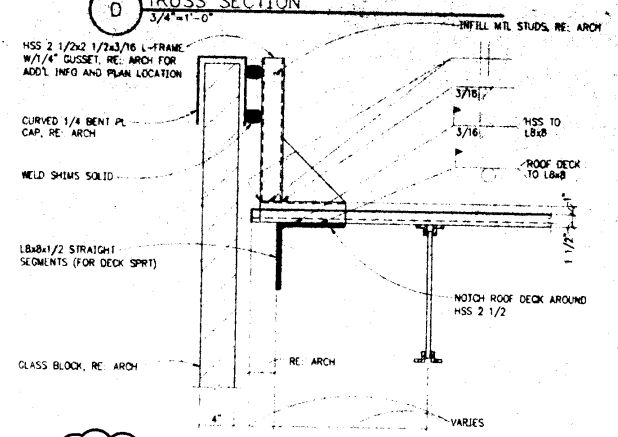
E ROOF TRANSITION DTL
3/4"=1'-0"



F ROOF TRANSITION DTL
3/4"=1'-0"



G LOBBY ROOF EDGE
3/4"=1'-0"



H LOBBY ROOF EDGE
1 1/2" = 1'-0"

PROJECT: TWO RIVERS CONVENTION CENTER — DWG UPDATES
PROJECT MANAGER: Ben Nelson — by: date
DESIGNED BY: KLM, THORNOCK — JOB NO. 14386.5.01 — DATE: 02-15-01
DRAWN BY: JDM, EADAM — FILE No.: TR-S421.DWG

SINK COMBS DETHLEFSEN
MARTIN / MARTIN

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/8/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS & ⚠	2/16/01
CONST DOCS & ⚠	3/16/01
ADDENDUM ⚠	4/28/01
BULLETIN #1 ⚠	4/9/01
CONST USE	4/26/01

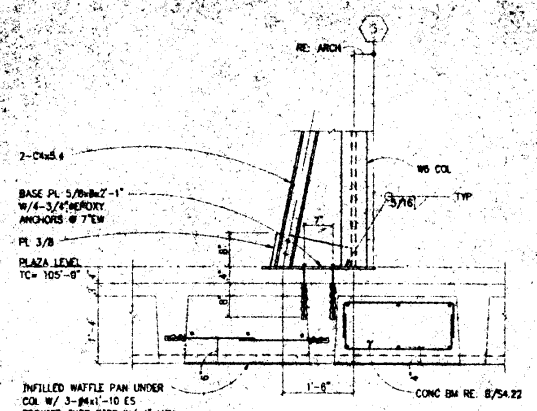
Two Rivers Convention Center

M/M Project No. 14386.5.01
SSD Project No. 9904

ROOF DETAILS

Drawn by: DME
Checked by: KLBH

S4.21



A K-BRACE BASE DTL
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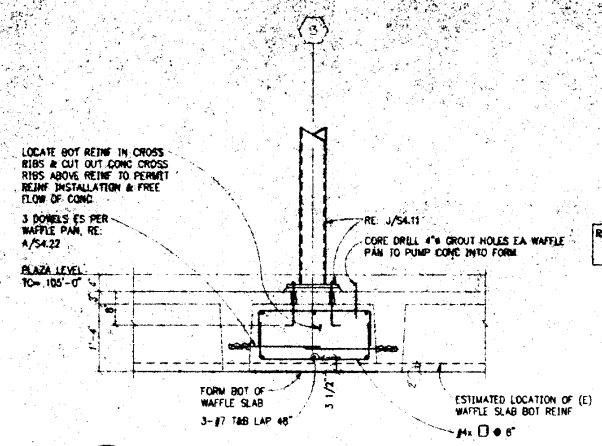

B WAFFLE SLAB STRENGTHENING
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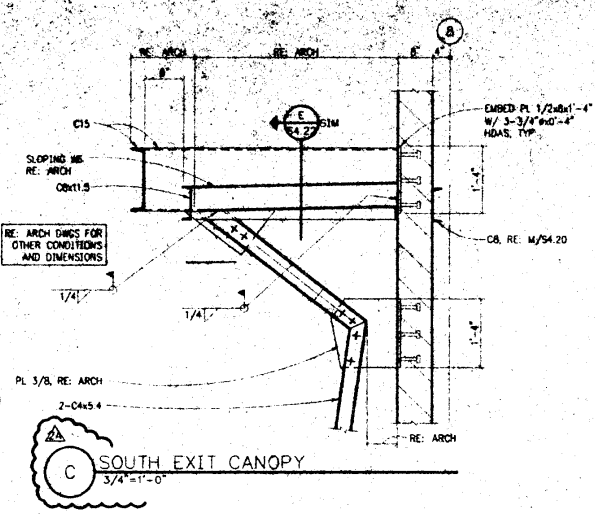

C SOUTH EXIT CANOPY
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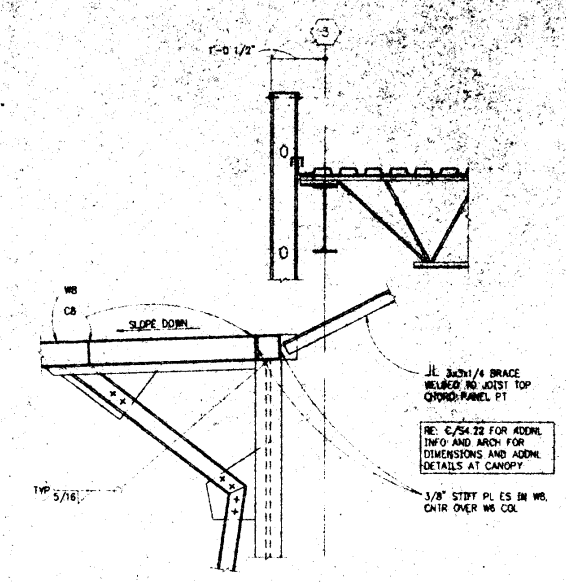
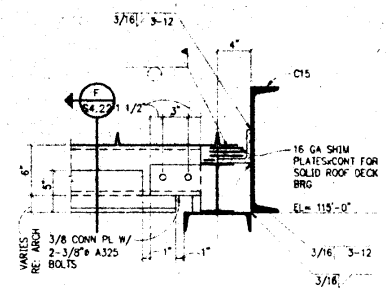
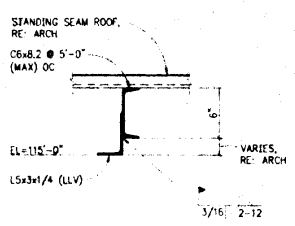


D NORTH CANOPY DETAIL
3/4"=1'-0"



E NORTH CANOPY EDGE DTL
1 1/2"=1'-0"



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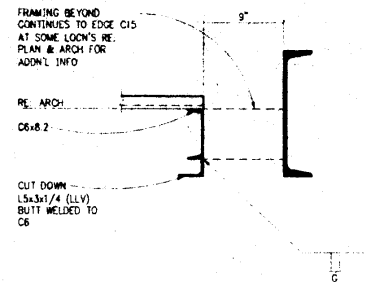
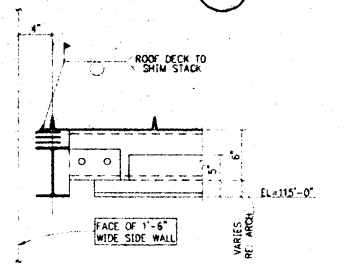


G NORTH CANOPY DTL
1 1/2"=1'-0"



H NORTH CANOPY DTL
1 1/2"=1'-0"

PROJECT: TWO RIVERS CONVENTION CENTER — DWG UPDATED
PROJECT MANAGER: Ben Nelson — BY: done
DESIGNED BY: KIM THORNOCK — JOB NO: 14386.S1 — DATE: 03-30-01
DRAWN BY: DAN EAGAN — SHEET NO: S5.22.DWG

SINK COMBS DETHLEFS

MARTIN / MARTIN
CONSULTING STRUCTURAL ENGINEERS

Issues/Revisions:	Date:
SCHEMATIC DESIGN	9/6/00
DESIGN DEVELOPMENT	12/15/00
STEEL BID PACKAGE	1/26/01
PROGRESS DWGS &	2/16/01
CONST DOCS &	3/16/01
ADDENDUM	3/28/01
BULLETIN #1	4/9/01
CONST USE	4/26/01

Two Rivers Convention Center

M/M Project No. 14386.01
SD Project No. 9921

ROOF DETAILS

Drawn by: DNE
Checked by: CBN

S4.22

GENERAL MECHANICAL CONTRACT REQUIREMENTS:

1. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND IN THESE SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL EQUIPMENT AND MATERIALS NECESSARY FOR, COMPLETE AND OPERATIONAL, HVAC, FIRE PROTECTION, AND PLUMBING SYSTEMS. THE CONTRACTOR SHALL FURNISH THOSE ITEMS IF ITEMS REQUIRED TO RECEIVE THIS U.S. OFFICE, ISOLATION AND BALANCING DEVICES, PAINT/GUAGE CLEARANCES, ETC.) ARE NOT SPECIFICALLY SHOWN.

2. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE REQUIRED.
   - ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTORS SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, ETC. AND SHALL COORDINATE TO AVOID CONFLICTS WITH OTHER TRADES. NO EXTRA FOR SITE CONDITIONS OR INSTRUCTIONS TO CHANGE WORK TO THE ACTUAL CONDITIONS OF THE JOB.

3. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. THEY SHOW CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE DIVISION 15 WORK AND ITS INTERFACE WITH OTHER WORK. BETWEEN, THIS RELATIONSHIP IS THE FIELD. IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR THIS DIVISION SHALL COORDINATE TO CONFORM WITH ALL DIVISIONS OF THE WORK AND ADJUST TO WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE JOB.

   A. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.

   B. CERTAIN SYSTEMS REQUIRE ENGINEERING OF INSTALLATION DETAILS BY CONTRACTOR, UNLESS FULLY DETAILED IN THE CONTRACT DOCUMENTS SUCH ENGINEERING IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.

   C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHERE CLEARANCES ARE LIMITED AND WHERE INSTALLATION DRAWINGS OR SCHEMATICS (COORDINATION DRAWINGS) OR COORDINATION DRAWINGS MAY BE REQUIRED. THE CONTRACTOR SHALL PREPARE ALL SUCH COORDINATION DRAWINGS AS PART OF THE BASE CONTRACT. SUCH DRAWINGS MAY BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR RECORD AND COMMENT AT THE CONTRACTOR'S OPTION.

   NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

4. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION.

   EXAMPLE: THE CONTRACT DOCUMENTS OF ALL TRADES (E.G. THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.)

   COORDINATE NECESSARY EQUIPMENT, DUCTWORK AND PIPING LOCATION SO THAT THE FINAL INSTALLATION IS NEAT AND WITH THE FUNCTIONING OF ALL EQUIPMENT AND EQUIPMENT OF THE OTHER TRADES.

   AS NECESSARY, PREPARE SHOP DRAWINGS FOR INSTALLATION OF ALL 15's WORK BEFORE INSTALLATION TO VERIFY COORDINATION OF WORK BETWEEN TRADES.

5. REFER TO THE ARCHITECTURAL DIVISION FOR EXACT LOCATION OF:
   - A. FINAL LOCATION OF ALL THERMOSTATS IN FINISHED SPACES AND ALL SWITCHING SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. IF NOT SHOWN, ON THE ARCHITECTURAL DRAWINGS, FIELD COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

EXISTING BUILDING:

6. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE EXISTING BUILDING WILL BE OCCUPIED BY THE OWNER DURING CONSTRUCTION AND PUBLIC OPERATION OF THE FACILITY SHALL NOT BE HINDERED BY THIS WORK. THE CONTRACTOR SHALL ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED BY LACK OF, OR DIFFICULTY IN, WORKING OVER OR AROUND FURNITURE, DESKS, EQUIPMENT, ETC.) AND DUE TO THE HOURS OF THE DAY IN WHICH AN AREA MAY BE AVAILABLE (WHEN SUBMITTING HIS BID.)

   "AS-BUILT" & MARKED UP SET OF DRAWINGS WHICH INDICATE VARIATIONS IN THE ACTUAL INSTALLATION FROM THE ORIGINAL DESIGN. SUBMIT/DELIVER DRAWINGS TO OWNER UPON COMPLETION.

8. ALL CAPACITIES ARE SCHEDULED AT 1,000 FEET ALTITUDE OF HIGHER ABOVE SEA LEVEL.

ELECTRICAL COORDINATION:

10. VERIFY THE ELECTRICAL SERVICE PROVIDED BY THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.

    PROVIDE NON-SPECIFIC MOTORS WITH A SERVICE FACTOR ON ALL EQUIPMENT. MOTORS SHALL BE CAPABLE OF OPERATING CONTINUOUSLY AT 100% UNDER JOB SITE CONDITIONS AND ALTITUDE.

11. UNLESS NOTED OTHERWISE, ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH NEMA SWITCH AND STARTER COMPATIBLE WITH EQUIPMENT AND SHALL BE MAGNETIC STARTERS SHALL BE PROVIDED BY DIVISION 15 UNLESS IN A MOTOR CONTROL CENTER. ALL DISCONNECTS SHALL BE FURNISHED BY DIVISION 16.

13. THE ELECTRICAL POWER FOR CERTAIN EQUIPMENT PROVIDED UNDER DIVISION 15 HAS NOT BEEN SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS AND THAT BE PROVIDED BY AND FIELD COORDINATED BY THE DIVISION 15 TRADE REQUIRING SUCH POWER.

    SUFFICIENT POWER FOR THE PURPOSE SHALL BE FURNISHED AS SPARE, DEDICATED CIRCUIT CAPACITY IN DIVISION 16 PANELBOARDS. ALL WIRING, CONDUIT AND ELECTRICAL DEVICES CONNECTED UP OR PANELBOARDS IS THE RESPONSIBILITY OF THE DIVISION 15 TRADE REQUIRING THE POWER UNLESS OTHERWISE SHOWN ON THE ELECTRICAL DRAWINGS.

    SUCH EQUIPMENT IS HEREBY DEFINED AS:

    - A. TEMPERATURE CONTROL PANELS, CONTROL AIR COMPRESSORS AND LINE VOLTAGE POWER FOR 24V CONTROL TRANSFORMERS REQUIRED CONNECTION ARE INCLUDED IN DIVISION 15/16 AND WILL BE SHOWN BY THAT CONTRACTOR'S CONTROL ELEMENTAL DRAWINGS.
    - B. IT IS NOT PERMISSIBLE TO UTILIZE "SPARE" POWER FROM ADJACENT POWER CIRCUITS TO SERVE ANY OF THE ABOVE LOADS. ALL POWER MUST COME FROM DEDICATED CIRCUITS.

GENERAL INSTALLATION:

14. INSPECT EACH TRADE'S WORK PERIODICALLY PRIOR TO SUBSEQUENT WORK. SHALL BE "MADE READY" TO SUBSEQUENT TRADES. EXCEPT WHERE OTHERWISE SHOWN.

15. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS. LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

16. OBTAIN MANUFACTURERS' RECOMMENDED SERVICE INSTRUCTIONS FOR ALL EQUIPMENT AND FOLLOW SAME.

17. PROVIDE FOR SAFE CONDITION OF THE WORK DURING PERIODS OF SHUTDOWN FOR MAINTENANCE AND PROTECTION OF EQUIPMENT USED IN CONSTRUCTION AND MAINTENANCE.

18. PROVIDE ACCESS DOORS FOR ALL EQUIPMENT, VALVES, CLEANOUTS, ACTUATORS AND CONTROLS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS.

    - A. FOR EQUIPMENT LOCATED IN "ACCESSIBLE LOCATIONS" ALSO LOCATE EQUIPMENT TO MAXIMIZE ACCESSIBILITY FOR SERVICING, REMOVAL AND REPLACEMENT. COORDINATE ARCHITECTURAL, ELECTRICAL OR STRUCTURAL ELEMENTS SUCH AS THE CEILING SUPPORT SYSTEM, ELECTRICAL FIXTURES ETC. "NORMAL" MAINTENANCE INCLUDES, BUT IS NOT LIMITED TO, FILTER CHANGES, DISMOUNTING OF RELATIVELY LIGHT, ANY ROTOR, FOR PRESSURE OR TEMPERATURE MEASUREMENTS, SERVICING CONTROL VALVES AND SERVICING CONTROL PANELS.

19. INSTALLATION GUIDELINES:
    - A. PIPING INSTALLATION
      1. PIPING SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING STRUCTURE TO PREVENT SAGGING, ROCKETING, SWAYING, OR OTHER OBJECTIONABLE BY TRAVEL OF NOISES AND VIBRATIONS. PIPING IS NOT TO BE SUPPORTED BY EQUIPMENT.
      2. PROVIDE DIELECTRIC UNIONS BETWEEN DISSIMILAR MATERIALS.
      3. PROVIDE MANUAL AIR VENTS AND DRAIN VALVES AT HIGH AND LOW POINTS.
      4. WELD PIPE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. WELDERS SHALL BE CERTIFIED FOR TYPE OF WELDING REQUIRED.
    - B. FLUSH OUT PIPING AND SERVICE CONTROL DEVICES BEFORE PERFORMING PRESSURE TEST. ISOLATE THE SYSTEM VALVES TO ISOLATE SECTIONS WHERE TEST PRESSURE EXCEEDS VALVE PRESSURE RATING. PRESSURIZE PIPING AT 200 PSIG. IF LEAKAGE IS EVIDENT OR IF TEMPERATURE COMPENSATED PRESSURE DROP EXCEEDS 1% OF TEST PRESSURE, REPAIR LEAKS AND RETEST.

    - C. PROVIDE SUPPORT UNDER ELBOWS ON PUMP SUCTION AND DISCHARGE LINES.
    - D. ALL STRAINERS SHALL BE PERMANENTLY MARKED WITH A PERMANENT SCREEN AND SIZE TO SCREENS FOR NORMAL OPERATION. INSTALL STRAINER WITH ROUGHING SCREEN AND OPERATE SYSTEM FOR 72 HOURS (THIRTY-TWO DOMESTIC WATER SYSTEMS AT FULL FLOW FOR A PERIOD OF ONE HALF (1/2) HOUR. REMOVE ROUGHING SCREEN AND INSTALL NORMAL SCREEN. AFTER TWO WEEKS OF NORMAL OPERATION, INSTALL NEW NORMAL SCREEN.
    - E. DUCTWORK INSTALLATION
      1. SEAL ALL SEAMS LONGITUDINAL AND TRANSVERSE AIR TIGHT WITH AMERICAST NO. 3M TON-HARDENING ELASTIC ADHESIVE OR EQUIVALENT.
      2. DUCT DIMENSIONS ARE INSIDE CLEAR.
      3. DIFFUSER NECK SIZE & SHAPE AS FLEXIBLE DUCT SIZE.
      4. UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE EQUAL TO 1.5 DUCT WIDTH.
      5. WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE MITERED ELBOWS WITH TURNING VANES AS FOLLOWS:
         - A. MITERED ELBOWS SHALL BE CONSTRUCTED OF MANUFACTURED DOUBLE WIDTH TURNING VANES WITH TRAILING EDGES AND SPACING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR STANDARD SPACING.
         - B. USE DOUBLE THICKNESS VANEROLL BLADES AT TRAILING EDGES FOR DUCT WIDTHS GREATER THAN 36".
      6. ALL FLEXIBLE DUCTS SHALL NOT BE LESS THAN 6" NOR GREATER THAN 9'-0" IN LENGTH. INSTALL FLEXIBLE DUCTWORK SUCH THAT:
         - A. MAXIMUM OVERALL LENGTH OF 30 STRAIGHT, NOT INCLUDING CONNECTIONS.
         - B. NEVER EXCEEDS 60 DEGREES OF TOTAL TURNING IN ENTIRE RUN OF FLEXIBLE DUCT.
         - C. MINIMUM TURNING RADIUS OF 6" TO CENTERLINE.
         - D. WHERE
           - 1. FLEXIBLE DUCT DIAMETER IS 7", RADIUS OF TURN AS MEASURED TO CENTERLINE OF DUCT.

    - F. RETURN AIR PLENUM: THE HVAC SYSTEM WILL USE THE SPACE ABOVE THE CEILING ON EACH FLOOR AS A RETURN AIR PLENUM. CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF NFPA AND LOCAL CODE REQUIREMENTS FOR ALL MATERIALS INSTALLED IN THE RETURN AIR PLENUM.
      - A. IN ADDITION, THE CONTRACTOR SHALL PROVIDE A COMPLETE RETURN AIR PATH BETWEEN ALL RETURN AIR DIFFUSERS, GRILLES, ETC.) AND THEIR RESPECTIVE RETURN AIR PLENUMS. THE AIR FLOW SHALL NOT EXCEED 2000 FEET PER MINUTE NOR EXCEED 1500 FEET PER MINUTE AT ANY CROSS-SECTION OF THE RETURN AIR PATH.

20. SIZE CONTROL VALVES FOR HEIGHT & QUANTITY OF WATER PRESSURE DROP. SIZE BALANCING VALVES SO THAT SCHEDULED FLOW RATE ALLOWS THE VALVE TO BE AT LEAST 80 DEGREES OPENED, BUT NOT EXCEED APPROXIMATELY 90 OR LATER PRESSURE DROP. CONTROL VALVES AND BALANCING VALVES WILL BE SMALL, NOT BE LINE SIZE.
    - A. UNLESS OTHERWISE NOTED ALL OTHER VALVES AND APPURTENANCES SHALL BE LINE SIZE.

21. ISOLATE ALL PRESSURIZED PIPING WATER BRANCHES FOR EACH RISER BRANCH TOP OF EQUIPMENT AND AREA SERVED.

22. PROVIDE PIPERS FOR ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON DRAWINGS. PIPING MAY BE CONNECTED TO FLOOR PIPERS OR BE STAND ALONE.

23. NO DOMESTIC WATER OR HEATING WATER LINES SHALL BE LOCATED SUSPENDED IN FINISHED SPACES OR BELOW THE BUILDING SLAB UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

24. NO GAS LINES SHALL BE LOCATED BELOW BUILDING SLAB.

29. ALL CURBS, ROOF JACKS, ROOF PIPE PLANTS, SANITARY VENTS, ROOF DRAINS ETC. SHALL BE COMPATIBLE WITH THE ROOFING SYSTEM TO BE PROVIDED. REFERENCE ARCHITECTURAL REVISION PAGE REQUIRED FLASHING DETAILS.

30. WARRANTY: ALL ENTIRE MECHANICAL SYSTEM SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE SYSTEM BY THE OWNER.

31. DEFINITIONS:
    - A. THE DEFINITIONS OF DIVISION 1 AND THE GENERAL CONDITIONS OF THIS SPECIFICATION ALSO APPLY TO THE DIVISION 15 AND DIVISION 16 CONTRACT.
    - B. "CONTRACT DOCUMENTS" DENOTES THE DRAWINGS, SPECIFICATIONS, ADDENDA, CONDITIONS, PROJECT MANUALS ETC., PREPARED BY ENGINEER FOR OTHER DESIGN PROFESSIONAL IN ASSOCIATION WITH ENGINEER FOR CONSTRUCTION BID OR CONTRACTOR'S NEGOTIATIONS WITH THE OWNER. THE DIVISION 15 AND 16 DRAWINGS AND SPECIFICATIONS PREPARED BY THE ENGINEER ARE NOT CONSTRUCTION DOCUMENTS.
    - C. "CONSTRUCTION DOCUMENTS" CONSTRUCTION DRAWINGS AND SPECIFICATIONS PREPARED BY ENGINEER FOR DIVISION 15 AND DIVISION 16 WORK REFER TO INSTALLATION DRAWINGS, SHOP DRAWINGS AND COORDINATION DRAWINGS PREPARED BY THE CONTRACTOR SERVE THE DESIGN INTENT INDICATED ON THE ENGINEER'S CONTRACT DOCUMENTS. THESE SPECIFICATIONS DETAIL THE CONTRACTOR'S RESPONSIBILITY FOR ENGINEERING BY CONTRACTORS' CODE FOR PREPARATION OF CONSTRUCTION DOCUMENTS.
    - D. "NEW" INDICATES NEW EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT.
    - E. "EE" INDICATES TO EXISTING EQUIPMENT ON SITE WHICH MAY OR MAY NOT NEED TO BE RELOCATED AS A PART OF THIS WORK.
    - F. "RE" INDICATES EXISTING EQUIPMENT TO BE RELOCATED AS PART OF THIS WORK.
    - G. "FURNISH" MEANS TO SUPPLY AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
    - H. "INSTALL" MEANS TO SET IN PLACE CONNECT AND PLACE IN FULL OPERATIONAL ORDER.
    - I. "PROVIDE" MEANS TO FURNISH AND INSTALL.
    - J. "EQUIVALENT" MEANS MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS. SIGNIFICANT ASPECTS SHALL BE AS DETERMINED BY THE ARCHITECT/ENGINEER.
    - K. "WORK BY OTHERS" OR "NOT BY ME" DIVISION AND SIMILAR EXPRESSIONS. MEANS WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT UNDER THIS DIVISION OR SECTION OF THE WORK OR UNDER THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN HIS/HER SUBCONTRACTORS AND SUPPLIERS. WHERE ANY CLARIFICATION IS REQUIRED, CONSULT ARCHITECT/ENGINEER BEFORE SUBMITTING BID.
    - L. BY REFERENCE: ANY REFERENCE TO A CONTRACTOR OR SUBCONTRACTOR MEANS THE ENTITY WHICH HAS CONTRACTED WITH THE OWNER FOR THE PORTION OF THE WORK.
    - M. "ENGINEER" MEANS THE DESIGN PROFESSIONAL WHO HAS PREPARED THESE CONTRACT DOCUMENTS, QUESTIONS, SUBMITTALS, ETC. OF THIS DIVISION SHALL BE ROUTED THROUGH THE ENGINEER THROUGH PROPER CONTRACTUAL CHANNELS.

32. KEEP DEVIATION / CUTTING TO MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK.

    BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF THE WORK.

    NO CUTTING, NOT SHOWN ON THE CONTRACT DOCUMENTS, SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT AS TO LOCATION AND EXTENT OF THE CUTTING.

33. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION UNLESS NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.

34. IF UNABLE TO OBTAIN WITHIN 95% OF THE REQUIRED CFM QUANTITIES IN ANY TERMINAL UNIT OR DIFFUSER, OR BRANCH OR MAIN DUCT, NOTIFY ENGINEER IMMEDIATELY. THEN PERFORM A VISUAL INSPECTION AND OR PITOT TUBE TRAVERSE TO LOCATE AND REMOVE THE OBSTRUCTION. REMOVE THE OBSTRUCTION AND RE-BALANCE.

LOUVERS:

35. ALL MECHANICAL LOUVERS LOCATED ON EXTERIOR WALLS SHALL BE SHOWN AND DIMENSIONED ON ARCHITECTURAL DRAWINGS AND CONFORM TO DIVISION 6 REQUIREMENTS REQUIRED. SUBMITTALS WERE ARE NOT DATED ON DIVISION 15 DRAWINGS. ALL SUBMITTALS OF LOUVER CONSTRUCTION TO CONFORM TO REQUIRED FREE AREA HAS BEEN PROVIDED PRIOR TO CONNECTION TO DUCTWORK BY OTHER DIVISION. 6 SHALL PRIOR OF ALL LOUVER FIXTURES.

CONSTRUCTION VENTILATION

36. WHERE, BY STATE OR LOCAL MECHANICAL SYSTEMS ARE USED FOR TEMPORARY VENTILATION OR TO EVACUATE CONTROL MECHANICAL EQUIPMENT INSTALLED SHALL PROVIDER CONSTRUCTION. ALTERED MATERIAL EQUIPMENT AND CLEAN ALL UNIT AND PARTS IN CONDITION BEFORE BUILDING OCCUPANCY. PARTS AND LABOR WARRANTY SHALL NOT BE CONSIDERED TO START UNTIL ACCEPTANCE OF SYSTEM BY OWNER.

FIRE PROTECTION NOTES

37. CITY OF GRAND JUNCTION REQUIRE FIRE SPRINKLER CONTRACTOR SHALL SERVICE AS THE ENGINEER OF RECORD FOR ALL WORK PERFORMED UNDER THIS DIVISION. EXPERT CONTRACTOR SHALL PREPARE SYSTEM SHOP DRAWINGS SUBMITTED BY CONTRACTOR ACCORDANCE WITH GRAND JUNCTION FIRE DEPARTMENT REQUIREMENTS.
    - SHOP DRAWINGS SHALL BE AT NOT LESS THAN 1/8" SCALE SHOW DEVICE AND APPLIANCE LOCATIONS, BUILDING, BACKGROUND INFORMATION, ROOF OCCUPANCY DESCRIPTIONS, DOOR SWINGS AND FIRE PROTECTION SYSTEM LAYOUT AND DETAILS. SHOP DRAWINGS SHALL BE VEILED OR SUBMITTED WITH A LETTER SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO. THE PROPOSED SHALL ENGINEER SHALL BE EMPLOYED DIRECTLY BY, OR BE A SUBCONSULTANT TO THE FIRE SPRINKLER CONTRACTOR. SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE BUILDING INSPECTION DIVISION AND FIRE PREVENTION BUREAU. MAKE ANY OBTAIN THE IN APPROVAL BEFORE SUBMISSION TO THE DIRECTOR.

38. WORK SHALL BE PERFORMED BY A QUALIFIED FIRE SPRINKLER INSTALLER WITH A MINIMUM OF 5 FIVE YEARS EXPERIENCE IN SIMILAR INSTALLATIONS.

39. COORDINATE ALL WORK WITH ALL OTHER TRADES.

40. SUPPLY OWNER AN EXTRA STOCK OF SIX SPRINKLER HEADS OF THREE (3) OF EACH TYPE AND A SPRINKLER WRENCH. SPRINKLER HEADER SHALL MATCH EXISTING IN ADJACENT HALL SHOPS.

DEMOLITION

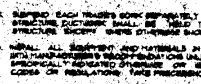
41. ALL CAPPED, SANITARY, AND VENT LINES SHALL BE RECONNECTED OR RE-ROUTED AS NECESSARY TO PREVENT DRAIN BACK IN THE PIPING. DRAIN TO ACTIVE SANITARY, WASTE LINES AND ALL BRANCHES WITH TRAPS SHALL BE ADEQUATELY VENTED.

STRUCTURE:

42. DO NOT PENETRATE ANY STRUCTURAL MEMBERS OR PRECAST CONCRETE UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS OR PRE-APPROVED BY THE STRUCTURAL ENGINEER.

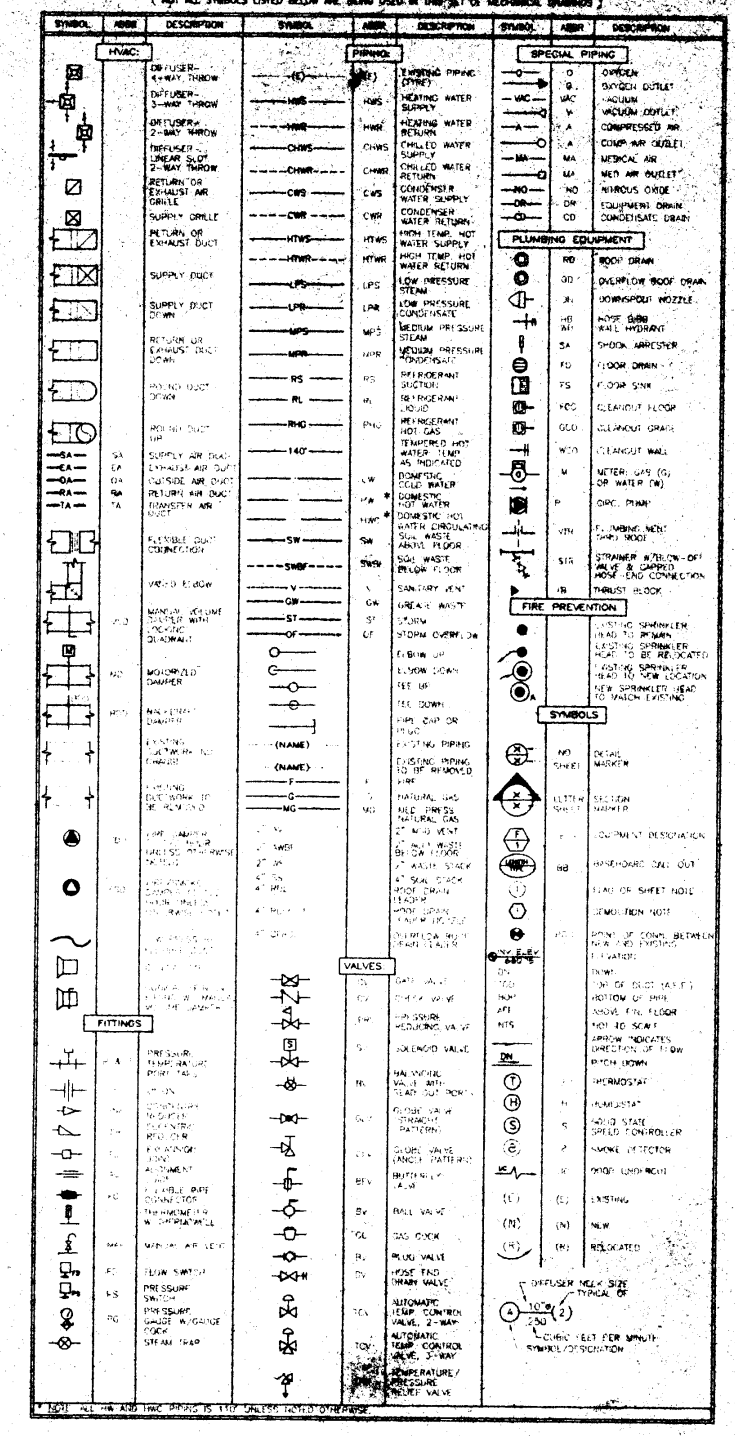
43. ALL EQUIPMENT SUPPORTS SHALL BE ATTACHED TO THE LOAD BEARING MEMBERS OF STRUCTURAL ELEMENTS. DO NOT OVERSTRESS ANY STRUCTURAL MEMBERS. CONTACT STRUCTURAL ENGINEER FOR ALLOWABLE LOADS FOR SPECIFIC MEMBERS IF IN DOUBT.

EQUIPMENT DESIGNATIONS



MECHANICAL LEGEND

(NOT ALL SYMBOLS LISTED BELOW ARE BEING USED IN THIS SET OF MECHANICAL DRAWINGS)



SINK COMBS DETAILS

Issues/Revisions:	Date:
SCHEMATIC DESIGN	4-6-00
PROGRESS PRINT	4-30-00
DD SET	6-15-00
FOR CONSTRUCTION	09-18-01
1 REVISION	09-28-01
FINAL CONSTRUCTION SET	09-28-01

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

MECHANICAL LEGEND & NOTES

Drawn by: MDC
Checked by: MPD

M0.01

FINAL CONSTRUCTION SET

M-E / YODER ENGINEERS, INC.
2068 E. BEAVER CREEK BLVD. SUITE 107
P.O. BOX 5760, AVON, CO 81620
PH: (970) 949-6200 FAX: (970) 949-9969

FAN SCHEDULE

SYMBOL (MARK #)	SERVICE	CFM @ ALT.	TOTAL S.P. IN WG @ ALT.	MAX. RPM	MOTOR HP (WATTS)	MOTOR BHP	MOTOR VOLT/PHASE	MIN. WHEEL DIA.	MAX. SONES	OPER. WEIGHT LBS.	MAKE AND MODEL	NOTES A	B	C	D	E	F	G	H
KEF-1	KITCHEN HOOD																		
		10125	1	313	5	-	460/3	-	30	500	GREENHECK SWB-24-90	2	0	2	0	5	1	0	1
EF-1	LARGE RESTROOMS																		
		2400	0.65	1725	3/4	-	460/3	-	13.8	90	GREENHECK CUBE-140	2	2	1	1	1	5	0	3
EF-2	BREAKROOM																		
		500	0.5	1520	1/8	-	115/1	-	8.1	40	GREENHECK CUE-950	2	2	1	1	1	5	0	3
EF-3	DISH MACHINE EXHAUST																		
		600	0.5	1805	1/6	-	115/1	-	10.1	96	GREENHECK GRF-RO-6	2	1	2	1	1	2	0	3
EF-4	CONCESSION																		
		200	0.1	1300	1/25	-	115/1	-	6.2	40	GREENHECK VUE-80-G	4	2	1	1	1	1	0	3
EF-5	SMALL RESTROOMS																		
		1000	0.4	1140	1/6	-	115/1	-	10.8	64	GREENHECK CUE-130-8	2	2	1	1	1	1	0	3
EF-6&7	ELECTRICAL AND MECHANICAL ROOM																		
		1000	0.4	1725	1/4	-	115/1	-	17.8	60	GREENHECK SQE-170-1	0	1	2	1	1	4	0	2

GENERAL COMMENTS:
1. CAPACITIES AT 4600 FT. ELEVATION
2. MAXIMUM SONES SHOWN ARE ANCA CERTIFIED LEVELS BEFORE TAKING CREDIT FOR SOUND ATTENUATION OF ROOF CURB ATTENUATOR TO REDUCE SONES 1.0.
3. FOR SOUND ATTENUATING CURBS, SIZE FAN TO BE ONE CFM THAN SCHEDULED TO ACCOUNT FOR CURB LOSS
4. PROVIDE LABELS ON FANS AS TO AREAS SERVED

NOTES:

A. CURB
0. NONE
1. FIELD-BUILT, INSULATED
2. FACTORY-BUILT, INSULATED
3. FACTORY BUILT INSULATED, 18" TALL
4. FACTORY MOUNTED SOUND ATTENUATING
5. FACTORY VIBRATION ISOLATED
6. FACTORY INSULATED EXTENDED HEIGHT CURB
7. REUSE EXISTING CURB, PROVIDE INSULATION ADAPTOR AS REQUIRED

B. SCREEN
0. NONE
1. BIRD
2. INSECT

C. DRIVE
1. DIRECT
2. BELT

D. DAMPER
0. NONE
1. GRAVITY BACK
2. BAROMETRIC ADJUSTABLE BACK
3. MOTORIZED CONTROL DAMPER, 115V/1Ø
4. MAGNETIC BUTTERFLY DAMPER LATCHES

E. ACCESSORIES
1. SOLID STATE SPEED CONTROL, MFG. VS MOTOR
2. DISCONNECT SWITCH
3. ELECTRIC DISCONNECT
3. WALL MOUNTED SOLID STATE SPEED CONTROL
4. 115V/1Ø REVERSE ACTING THERMOSTAT
5. WALL MOUNTED 2 SPEED SWITCH
6. DRAIN CONNECTION
7. CHANGE OF GREASE RECEIVER

F. TYPE
1. CENTRIFUGAL
2. CENTRIFUGAL ROOF EXHAUSTER
3. AXIAL FAN
4. WALL PROPELLER FAN
5. CENTRIFUGAL UPBLAST ROOF EXHAUSTER
6. TUBE AXIAL UPBLAST ROOF EXHAUSTER
7. CENTRIFUGAL CABINET

G. SPECIAL COATINGS
0. NONE
1. PHENOLIC
2. EPOXY
3. POLYESTER, EPOXY
4. KYNAR/FEVE

H. MISCELLANEOUS
0. NONE
1. IMMERSION HEATERS
2. EMERGENCY POWER
3. SECURE FAN TO CURB AT EACH CORNER EACH SIDE AND 12" O.C.
4. ANCA B SPARKPROOF SPARK RESISTANT CONSTRUCTION
5. EXPLOSION PROOF
6. 2 SPEED, 3 WINDING (1200/1800)
7. 2 SPEED, 2 WINDING (900/1800)
8. VARIABLE FREQUENCY DRIVE

PLUMBING FIXTURE SCHEDULE

CODE	DESCRIPTION	MINIMUM CONNECTION CW	HW	SAN	VENT	MANUFACTURER / MODEL	FAUCETS & FITTINGS	REMARKS AND ACCESSORIES
WC-1	WATER CLOSET	1 1/2"		4"	2"	AMERICAN STANDARD AFWALL 2234.001	SLOAN ROYAL 111-1.6 ELONGATED BOWL	
WC-2	WATER CLOSET	1 1/2"		4"	2"	AMERICAN STANDARD AFWALL 2234.001	SLOAN ROYAL 111-1.6 ELONGATED BOWL	
LAV-1	LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	AMERICAN STANDARD RYDALYN 0355.028	SLOAN ROYAL 0.5 GPM	4" CENTERS
LAV-2	LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	AMERICAN STANDARD RYDALYN 0355.028	DELTA 520-MPU	4" CENTERS
LAV-3	LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	AMERICAN STANDARD RYDALYN 0355.028	DELTA 520-MPU	4" CENTERS
SK	SINK	1 1/2"		2"	1 1/2"	AM. ST. KINGSTON 8103.00	ELKAY LRAD 1719 SS	
MSB-1	MOP SERVICE BASIN			3"	2"	ZURN MODEL Z-1996		
FD-1	FLOOR DRAIN			2"		ZURN MODEL Z-415 WITH 12" STRAINER		
RD-1	ROOF DRAIN/OVERFLOW DRAINS					ZURN MODEL Z-100		
MSB	MOP SERVICE BASIN	3/4"	3/4"	3"	2"	FIAT 1591 SERIES	FIAT 1591-MX	
AD-1	AREA DRAIN					ZURN MODEL Z-886		
AD-2	AREA DRAIN					ZURN MODEL ZN 415-BD		
EW-1	EMERGENCY EYEWASH	1/2"		1 1/2"	1 1/2"	HALSEY TAYLOR HWEM-SDLP-D		SEALED WATER
SHW-1	SHOWER	1/2"	1/2"	2"	1 1/2"		SYMMONS VS-1905-AT	

MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL (MARK #)	LOCATION	DESCRIPTION	MAKE & MODEL
MAU-1		AGA CERTIFIED, NATURAL GAS FIRED, 1200 MBH INPUT, 980 MBH OUTPUT AT SEA LEVEL, 9000 CFM, OF AIR AT 1.5 INCH E.S.P., FAN MOTOR 10 HP/480 VOLT/3 PHASE. COMPLETE WITH THE FOLLOWING ACCESSORIES: HIGH EFFICIENCY (E-PLUS) CAPPED MOTOR, STAINLESS STEEL HEAT EXCHANGER, GAS SHUT-OFF VALVE, AUTOMATIC GAS VALVE, PRESSURE REGULATOR, INTERMITTENT SPARK PILOT WITH TIMED LOCKOUT, BURNER AIR SHUTTERS, POWER VENTER, OUTDOOR AIR THERMOSTAT, CIRCULATING PUMP WITH INTEGRAL TRANSFORMER, FREEZE STAT, DUCT STAT, DAMPER WITH END SWITCH, HIGH UNIT CONTROL AND REVERSAL SUP FLOW SAFETY CONTROL, 24 VOLT CONTROL TRANSFORMER, DOWNTURN PLENUM CABINET, ROOF CURB, CONTROLS SHALL BE FOR 100% O.A. WITH 2 STAGE GAS CONTROLS AND TWO POSITION MOTORIZED OUTSIDE AIR DAMPERS, PUSH BUTTON STATION TO SELECT EITHER HEATING, VENTILATING WITH PILOT LIGHT INDICATIONS. EVAPORATIVE COOLING MODULE W/ 12" RIGID CELLULOSE PADDING, AMERICOOL KEH-1 WITH WALL THROUGH WALL-1 CONTROL PANEL. OPERATING WEIGHT: 3332 LBS.	REZNOR RPSH 1200
AC-1		INDOOR UNIT, 18MBH COOLING, 18 MBH HEATING, 208V/1PH, MCA 16, MAX FUSE-20, 730 CFM, OUTDOOR UNIT, RUH 18 EK, 208V/1PH, MCA-16, MAX FUSE-20.	MITSUBISHI PKH18EK
DUH-1		UNIT HEATER,12 MBH OUTPUT, 115 CFM, 400 CFM, 9 WATT MOTOR, 115V/1PH, 8 AMPS.	STERLING MS-1241A
RH-1		HYDRONIC HUMIDIFIER, HEAVY DUTY TO GAUGE COVER, NOMINAL 6KG STEAM OUTPUT AT ALTITUDE	VAPORE GARDS STM-3K-12
CF-1		IN-FLOOR RADIANT HEAT CIRCULATION PUMP, 6 GPM @ 14 FT HD, 1/12 HP, 115V 1PH	GRUNDFOS ALPHA2 L4-25 BAKU

FAN COIL UNIT SCHEDULE (HYDRONIC)

SYMBOL (MARK #)	AREA SERVED	FAN CFM @ ALT.	FAN ESP (IN W.G.) @ ALT.	FAN HP	MIN. OUTSIDE AIR CFM	COOLING COIL SENS MBH	COOLING COIL EAT (F) DB	COOLING COIL EAT (F) WB	COOLING COIL GPM	COOLING COIL ROW	COOLING COIL WPD (FT)	COOLING COIL EWT (F)	HEATING COIL MBH	HEATING COIL EAT (MIXED AIR)	HEATING COIL GPM	HEATING COIL ROW	HEATING COIL WPD (FT)	HEATING COIL EWT (F)	ELECTRICAL V	ELECTRICAL PH	OPER. WT. LBS.	MAKE AND MODEL	NOTES A	B	C	D
1	BREAK ROOM	350	.5	1/6	75	10	75	60	.5	4	9	45	11	60	1.5	-	-	180	115	-	50	LENNOX CBH2-04	1	0	1	1
2, 4	ADMIN OFFICES	900	.5	1/6	75	10	78	60	1	4	4	45	11	60	1.5	-	-	180	115	-	100	ENVIROTEC VHB0-04	1	0	1	1

GENERAL COMMENTS
1. CAPACITIES AT 4600 FT. ELEVATION
2. MAXIMUM WPD SHALL NOT EXCEED 11 FT. AT GPM SCHEDULED

NOTES
A. FLUID
1. WATER
2. 10% PROPYLENE GLYCOL
3. 40% PROPYLENE GLYCOL

B. SPECIAL COATINGS
0. NONE
1. PHENOLIC

C. OPTIONS
0. NONE
1. WATER AND ELECTRIC HEATER FOR 100% OUTSIDE AIR
2. MOTOR EXPANSION MODULE
3. ELECTRIC HEAT, 208V 1PH
4. ELECTRIC HEAT, 208V 3PH
5. ELECTRIC HEAT, 480V 3PH

D. ARRANGEMENT
0. HORIZONTAL EXPOSED CABINET
1. HORIZONTAL CONCEALED
2. FLOOR EXPOSED CABINET
3. FLOOR CONCEALED
4. TWO PIPE DX

GRILLE, REGISTER AND DIFFUSER SCHEDULE

SYMBOL (MARK #)	FACE SIZE	SERVICE	DESCRIPTION	MAKE AND MODEL	NOTES A	B	C	D	E
A	24X24	SUPPLY	HIGH PERFORMANCE, LOUVER FACE, ADJUSTABLE	TITUS TMS	2	1	0	0	0
B	12X12	SUPPLY	HIGH PERFORMANCE, LOUVER FACE, ADJUSTABLE	TITUS TMS	2	1	0	0	0
C	24X24	SUPPLY	PERFORATED CEILING DIFFUSER, STAR PATTERN	TITUS PSS	2	1	1/8	0	0
D	12X12	SUPPLY	PERFORATED CEILING DIFFUSER, STAR PATTERN	TITUS PSS	2	1	1/8	0	0
E	24X24	SUPPLY	LOUVERED FACE	TITUS 50L	2	1	0	0	0
F	12X12	SUPPLY	LOUVERED FACE	TITUS 50L	2	1	0	0	0
G	SEE PLANS	SUPPLY	3/4" SPACING, DOUBLE DEFLECTION, ADJUSTABLE	TITUS 300RS	2	1	0	0	0
H	SEE PLANS	SUPPLY	3/16" SPACING, REVERSABLE CORE, ADJUSTABLE	TITUS 350RL	2	1	0	0	0
J	24X24	SUPPLY	HEAT/COOL AUTO CHANGEOVER VAV DIFFUSER	SOUTHWEST THERMALFLOW	2	1	0	1	0
K	SEE PLANS	SUPPLY	LINEAR SLOT DIFFUSER, (3) 1" SLOTS, LINEAR FEET AS NOTED ON PLANS, INSULATED PLENUM	TITUS ML-39	2	1	0	0	0
L	24X24	RETURN/EXHAUST	PERFORATED	TITUS PAR	2	1	0	0	0
M	12X12	RETURN/EXHAUST	PERFORATED	TITUS PAR	2	1	0	0	0
N	24X12	RETURN/EXHAUST	PERFORATED	TITUS PAR	2	1	0	0	0
O	SEE PLANS	RETURN/EXHAUST	LINEAR SLOT RETURN TO MATCH SUPPLY SLOT	TITUS ML-39	2	1	0	0	0
P	SEE PLANS	RETURN/EXHAUST	3/8" SPACING, 35 DEGREE FIN/3 BARS	TITUS 350RL	2	1	0	0	0
R	SEE PLANS	RETURN/EXHAUST	1/4" SPACING, 35 DEGREE FINS BARS, 1/8" BLANKS, 1/8" BORDER	TITUS 30 HS	2	1	0	4	0
S	SEE PLANS	RETURN	1-1/4" SPACING, SINGLE DEFLECTION, AEROBLADE	TITUS 1TT RL	2	4	0	0	0

GENERAL COMMENTS
1. REFER TO REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED AIR DEVICES.
2. COORDINATE ALL FRAME STYLES WITH CEILING SYSTEM FURNISHED, REFER TO ARCHITECTURAL FLOOR PLANS FOR CEILING TYPES.
3. TOTAL STATIC PRESS. IN DUCT NOT EXCEED 0.10" WG FOR ALL DIFFUSERS, GRILLES AND REGISTERS. 0.05" WG FOR TRANSFER GRILLES.
4. NC LEVELS SHALL NOT BE A MAXIMUM OF 30, BASED UPON ROOM ABSORPTION RATE OF 10 RB, PC TO 17 WATTS.
5. WHERE FLOW PATTERN NECK SIZES NOT FURTHER OUT IN SCHEDULE.
6. CEILING DIFFUSERS 4-WAY BLOW UNLESS NOTED ON REQUIRED.
7. SURFACE RADIATION OR FIRE HAZARD LABELS WHERE SHOWN ON RCP'S.

NOTES:

A. MATERIAL
1. ALUMINUM
2. STEEL
3. PLASTIC

B. FINISH
1. 251 WHITE
2. CLEAR ACRYLIC
3. MILL
4. COLOR BY ARCHITECT

C. DAMPER
0. NONE
1. OBD

D. ACCESSORIES
0. NONE
1. MINIMUM LIGHT VISOR
2. MONOTORQUE EGGCRATE GRID IN NECK (1/2" LENGTH OF SLOTS)
3. TYPE 1 OBD W/ KEY, PRIMED TO MATCH DUCT DIAMETER

COIL SCHEDULE (HOT WATER)

SYMBOL (MARK #)	SERVICE	MBH	CFM	GPM	WPD (FT. H20)	APD (IN. H20)	EAT (F)	LAT (F)	EWT (F)	LWT (F)	ROWS/ FINS	COIL SIZE WIDTH	COIL SIZE HEIGHT	BRANCH PIPE SIZE IN.	REMARKS	NOTES A	B	C
1256	RE-HEAT	315	760	32	26	-	55	95	180	160	2/8	12	12	3/4"	-	1	0	1
3	RE-HEAT	423	1150	44	26	-	55	95	180	160	2/8	18	12	1"	-	1	0	1
4"	RE-HEAT	70	1900	7.1	20	-	55	95	180	160	2/8	24	15	1"	-	1	0	1
6	RE-HEAT	85	2300	8.7	22	-	55	95	180	160	2/8	30	15	1"	-	1	0	1

GENERAL COMMENTS
1. CAPACITIES AT 4,600 FT. ELEVATION
2. MAXIMUM WPD SHALL NOT EXCEED 11 FT. AT GPM SCHEDULED
3. MAXIMUM APD 0.10 INCHES W.C.
4. VERIFY PIPING SPACE FOR MAXIMUM COIL HEIGHT. SHOULD THIS BE RESTRICTED, PROVIDE TOP OFFSET WITH EQUIVALENT FACE AREA AND PERFORMANCE.

NOTES
A. FLUID
1. WATER
2. 10% PROPYLENE GLYCOL
3. 40% PROPYLENE GLYCOL

B. SPECIAL COATINGS
0. NONE
1. PHENOLIC

C. CONTROL VALVE TYPE
0. NONE
1. 2 WAY MODULATING
2. 3 WAY MODULATING
3. 2 WAY 2 POSITION

ROOF TOP UNIT SCHEDULE

CODE	MANUFACTURER/ MODEL	AREA SERVED	SUPPLY FAN CFM	SUPPLY FAN ESP (IN)	SUPPLY FAN HP	MIN. OSA CFM	COOLING CAP EAT (F) DB	COOLING CAP EAT (F) WB	COOLING CAP TOTAL MBH	COOLING CAP SENS MBH	HEATING MBH IN	HEATING MBH OUT	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL MCA	REMARKS
RTU-1	TRANE YCH330A4H4B0	MEETING ROOMS	16000	2.2	7.5	4320	85.5	69	250	225	500	400	460	3	57	A, B, C
RTU-2	TRANE YCH150C4H	LOBBY	5000	1.5	3	2000	85.5	69	130	100	250	180	460	3	32	A, B, C

GENERAL NOTES
1. PROVIDE 2" 30 % EFFICIENT FILTERS.
2. PROVIDE HIGH EFFICIENCY FILTERS.
3. UNIT TO HAVE UNDER PAINT ELECTRICAL CORROSION
4. CAPACITY BASED ON 1 AMBIENT TEMPERATURE
5. PROVIDE FULL PERIMETER ROOF CURB
6. PROVIDE MANUFACTURERS RECOMMENDED SERVICE CLEARANCE AROUND ENTIRE UNIT.
7. HEATING AND COOLING CAPACITIES AND FAN STATIC PRESSURES ARE AT ALTITUDE.
8. ALTITUDE ELEVATION: 4,600 FT.

REMARK NOTES
A. PROVIDE ELECTRONIC SPARK IGNITION FOR MODULATING GAS VALVE
B. PROVIDE SMOKE DETECTOR IN RETURN DUCT
C. PROVIDE POWER ASSISTED VENTING
D. PROVIDE INTAKE HOOD AND 100% OSA ECONOMIZER

FINAL CONSTRUCTION SET

M-E / YODER ENGINEERS, INC.
6068 E. BEAVER CREEK BLVD. SUITE 107
P.O. BOX 5260, AVON, CO. 81620
PH: (970) 949-6000 FAX: (970) 949-1959

SINK COMBS DETHLEFSEN

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	4-9-09
PROGRESS PRINT	9-30-09
DD SET	12-8-09
FOR CONSTRUCTION	05-05-08
1 REVISIONS	08-28-09
FINAL CONSTRUCTION SET	04-28-09

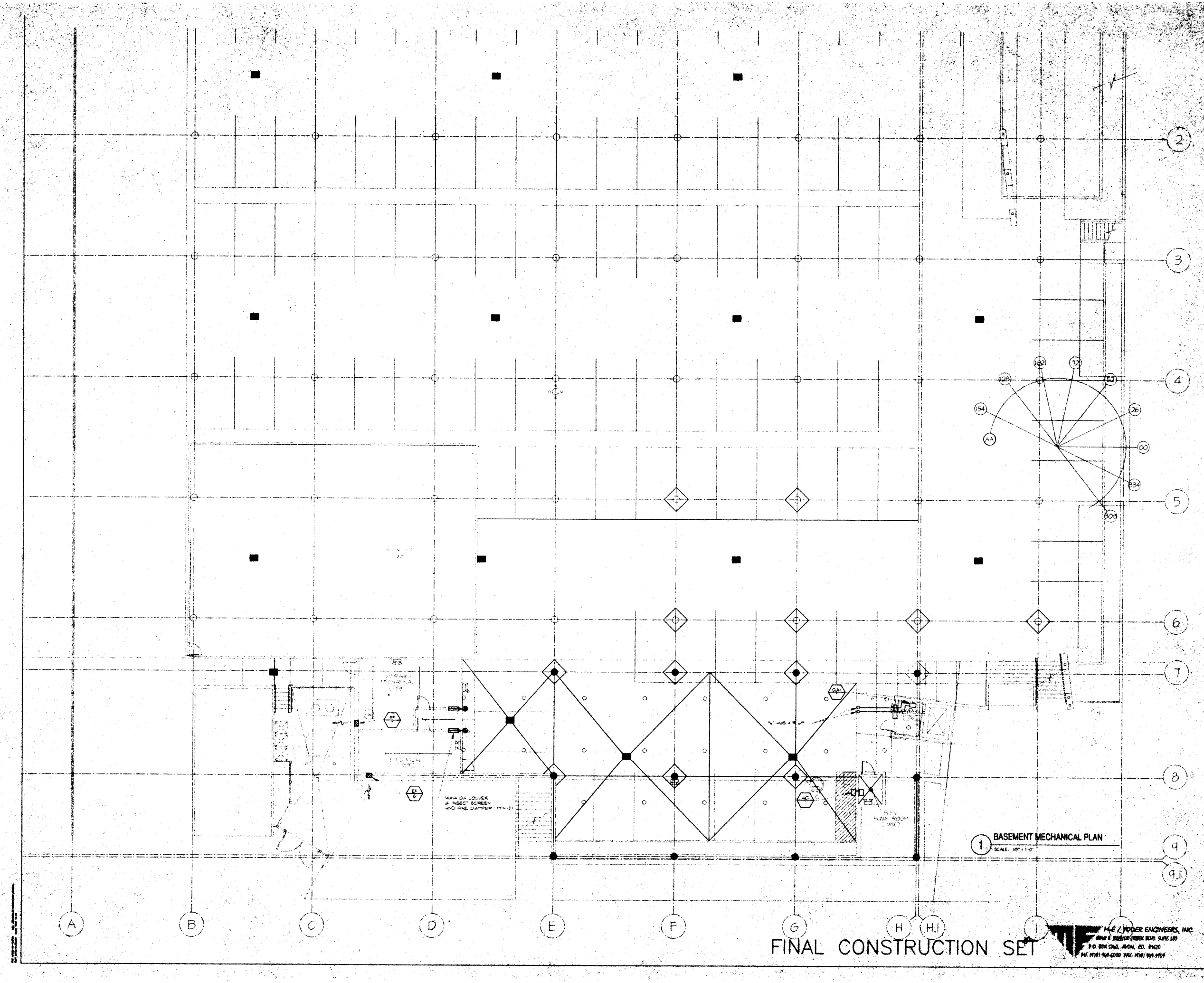
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

SCHEDULES

Drawn by: MDC
Checked by: MPD

M0.02



1 BASEMENT MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

FLAG NOTES:

1. ADMIN OFFICES TO BE HEATED BY IN-FLOOR RADIANT SYSTEM SERVED FROM HEATING WATER SYSTEM VIA 3-WAY VALVE AND CIRCULATION PUMP. 3 ZONES INTERLOCKED W/ RAIN GOILS.
2. PROVIDE LINED RETURN AIR TRANSFER DUCT THRU WALL ABOVE CEILING, REFER TO DETAIL.
3. EXISTING GRILLE 1 IN AND 2" HUB 4 IR UP.
4. TWO TYPE (1) GRILLES CONNECTED BY A 22X10 TRANSFER DUCT.
5. TWO TYPE (H) GRILLES CONNECTED BY A 12X10 TRANSFER DUCT.

1 FIRST LEVEL MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

FINAL CONSTRUCTION SET

H-E / HODGE ENGINEERS, INC.
8008 S. ZENITH PKWY. 85th. SUITE 201
P.O. BOX 1246, AVON, CO., 81620
PH. (970) 949-6200 FAX (970) 949-9559

SINK COMBS DETHLEFS

Issues/Revisions	Dates
SCHEMATIC DESIGN	9-8-00
PROGRESS PRINT	9-30-00
DD SET	12-8-00
FOR CONSTRUCTION	05-18-01
1 REVISIONS	05-29-01
FINAL CONSTRUCTION SET	06-26-01

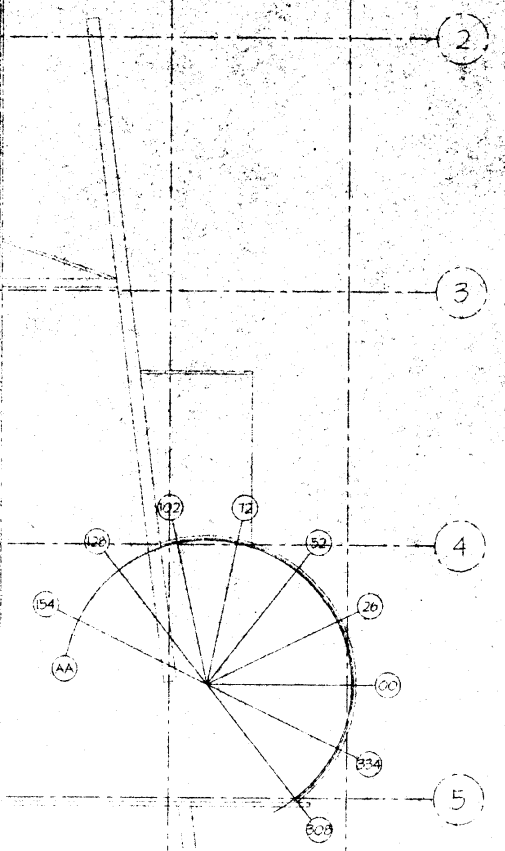
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

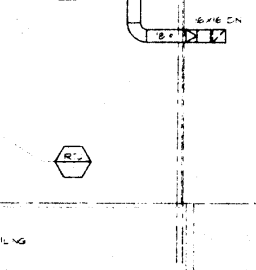
SCD Project No: 9924

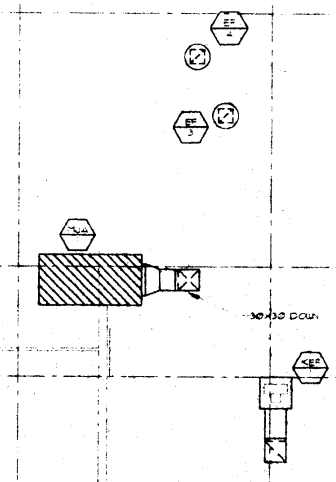
FIRST LEVEL
MECHANICAL PLAN

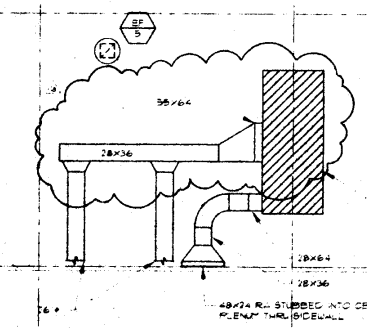
Drawn by: MDC
Checked by: MPD

M2.20









1 ROOF MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

FINAL CONSTRUCTION SET

SINK COMBS DETAILS

Issues/Revisions	Date
SCHEMATIC DESIGN	4-8-00
PROGRESS PRINT	8-30-00
DD SET	10-16-00
FOR CONSTRUCTION	03-16-01
REVISIONS	05-30-01
FINAL CONSTRUCTION SET	04-30-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

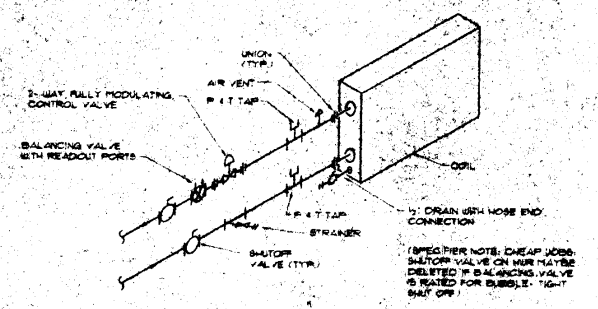
6CD Project No: 9924

ROOF LEVEL
MECHANICAL PLAN

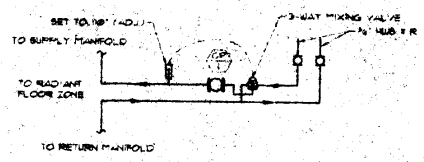
Drawn by: MDC
Checked by: MPD

M2.30

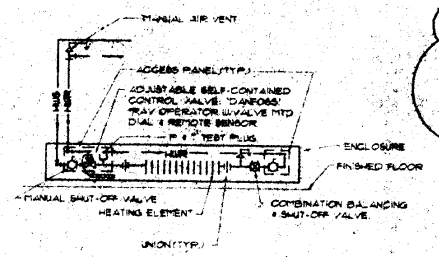
M-E / YODER ENGINEERS, INC.
0068 E. EXPRESS CREEK BLVD. SUITE 307
P.O. BOX 5068, AVON, CO. 81620
PH. (970) 949-6080 FAX (970) 949-1959



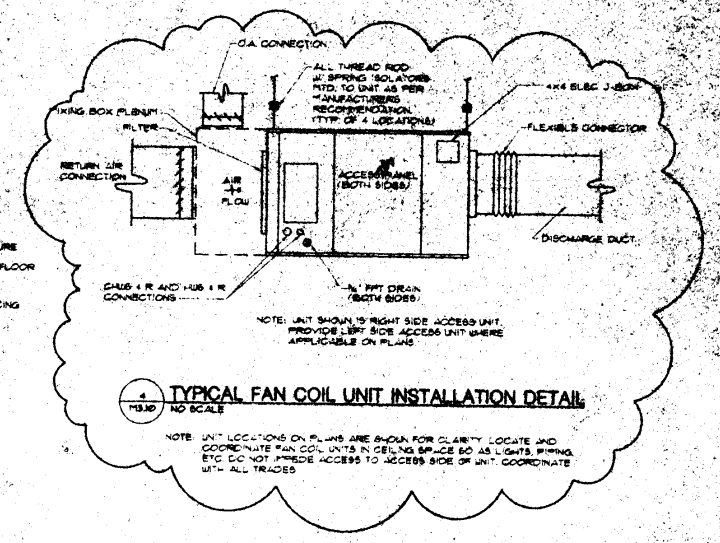
1 / M3.10 NO SCALE **2-WAY VALVE COIL CONNECTION DIAGRAM**



2 / M3.10 NO SCALE **RADIANT FLOOR PUMPING SCHEMATIC**

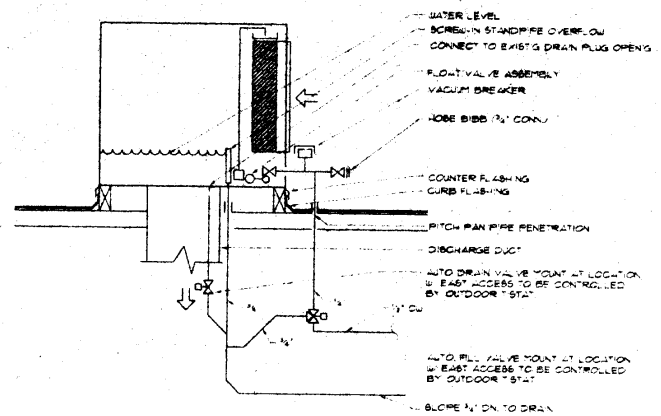


3 / M3.10 NO SCALE **TYPICAL BASEBOARD DIAGRAM**

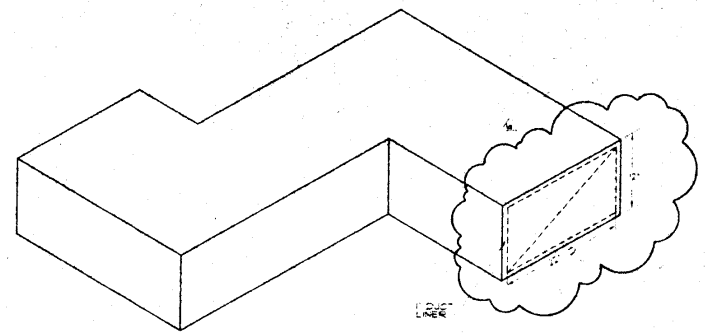


1 / M3.10 NO SCALE **TYPICAL FAN COIL UNIT INSTALLATION DETAIL**

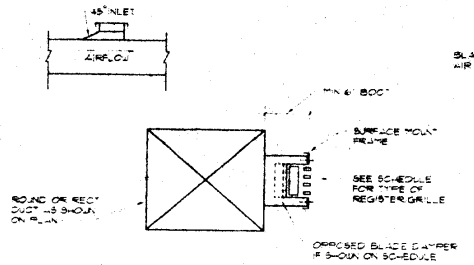
NOTE: UNIT LOCATIONS ON PLANS ARE SHOWN FOR CLARITY. LOCATE AND COORDINATE FAN COIL UNITS IN CEILING SPACE SO AS LIGHTS, PIPING, ETC. DO NOT PREVENT ACCESS TO ACCESS SIDE OF UNIT. COORDINATE WITH ALL TRADES



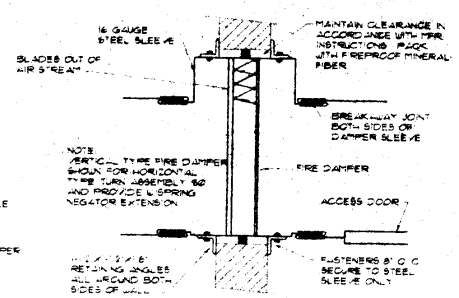
4 / M3.10 NO SCALE **EVAPORATIVE COOLER PIPING DIAGRAM**



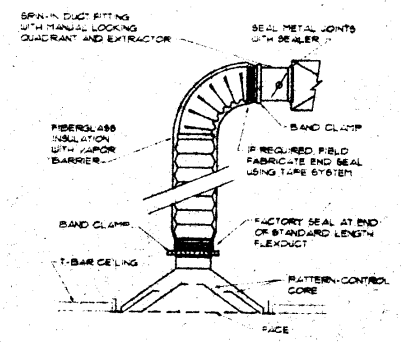
5 / M3.10 NO SCALE **SOUND BOOT DIAGRAM**



7 / M3.10 NO SCALE **DUCT MOUNTED AIR DEVICE**



8 / M3.10 NO SCALE **VERTICAL FIRE DAMPER DIAGRAM**



9 / M3.10 NO SCALE **CEILING DIFFUSER INSTALLATION DIAGRAM**

SINK COMBS DETHLEFS

ISSUES/REVISIONS	DATE
SCHEMATIC DESIGN	9-8-00
PROGRESS PRINT	11-30-00
DD SET	2-15-00
FOR CONSTRUCTION	03-16-01
1 REVISIONS	03-28-01
FINAL CONSTRUCTION SET	04-20-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 4924

MECHANICAL DETAILS

Drawn by: MDC
Checked by: MPD

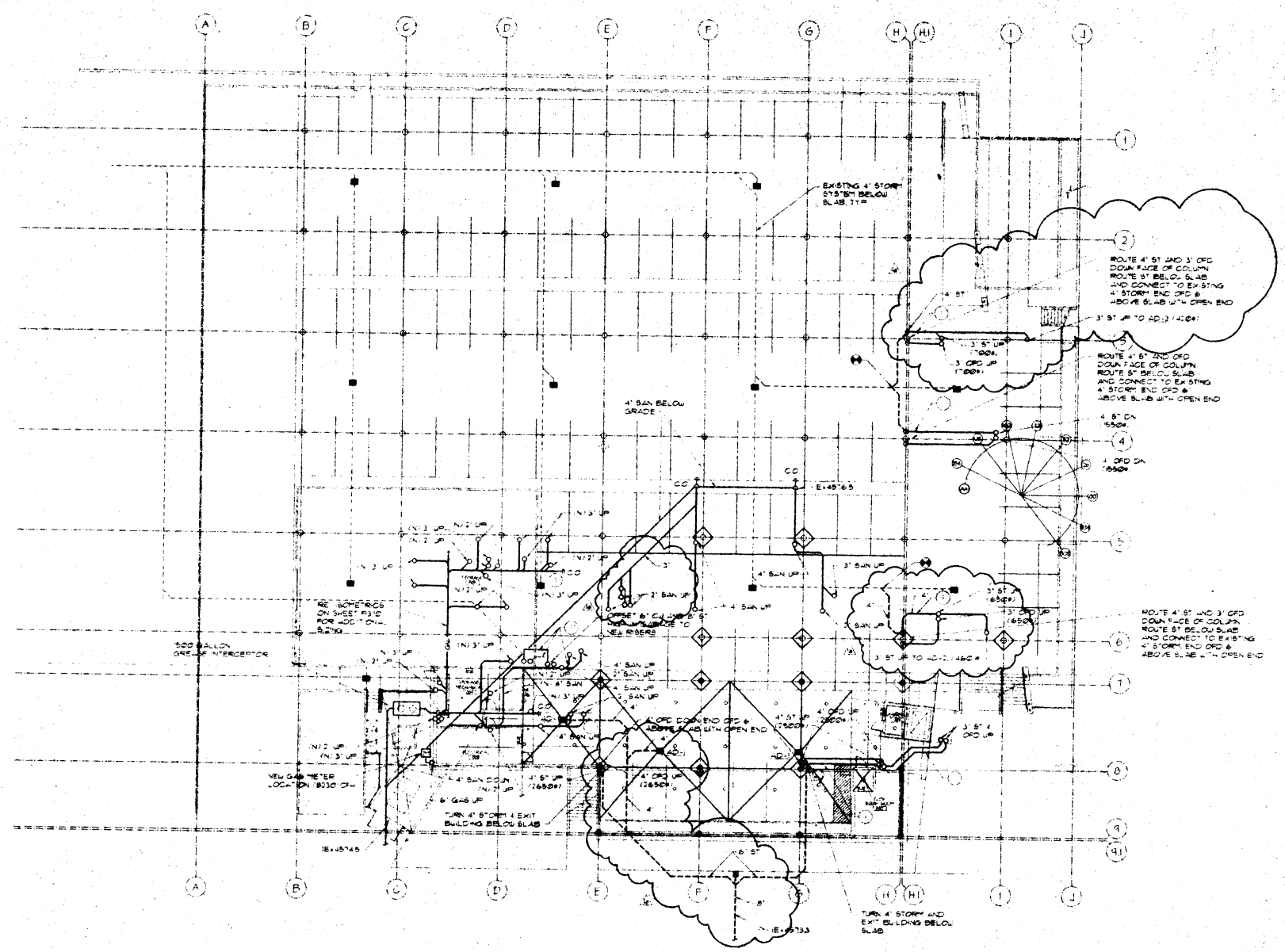
M3.10

FINAL CONSTRUCTION SET

M-E / YODER ENGINEERS, INC.
1998 E. BEAVER CREEK BLVD. SUITE 207
P.O. BOX 1260, AVON, CO. 81620
PH. (970) 949-6000 FAX. (970) 949-1959

SHEET NOTES:

1. INSULATE AND HEAT TRACE ALL HORIZONTAL EXPOSED STORM, SANITARY, GREASE WASTE AND DOMESTIC WATER LINES ON PARKING LEVEL



1 BASEMENT PLUMBING PLAN
SCALE: 1/16" = 1'-0"

FINAL CONSTRUCTION SET

SINK COMBS DETHLEFS

M-E / YODER ENGINEERS, INC.
DOUG E. BRAMER CREEK BLVD. SUITE 307
P.O. BOX 5760, AVON, CO. 81620
PH: (970) 949-6800 FAX: (970) 949-1959

Issues/Revisions:	Date:
SCHEMATIC DESIGN	8-8-00
PROGRESS PRINT	11-30-00
DD SET	12-15-00
FOR CONSTRUCTION	03-16-01
REVISIONS	05-28-01
FINAL CONSTRUCTION SET	04-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SGD Project No.: 9424

PARKING LEVEL PLUMBING PLAN

Drawn by: MBC
Checked by: MRB

P2.10

SHEET NOTES:

1. PROVIDE 3" SAN & VENT AND 3/4" H AND CW CONNECTED TO BUY GREAT MODEL B-750 WASHER BOX
2. CONNECT (N) 3/4" MUC TO EXISTING PIPING SYSTEM IN MECH ROOM
3. 3/4" CONDENSATE LINE TO (N) FAN COIL UNIT

EXHIBIT HALL 025

CONDENSATE CONNECT TO STORM

TICKETS 100

OFFICE 101

CORR 160

CONFERENCE 102

VESTIBULE 103

RECEPTION 150

LOBBY 151

SOUND 026

COAT 027

CORRIDOR 030

FOYER 031

KITCHEN 032

DRY STORAGE 033

MEN 034

WOMEN 035

JANITOR 036

MEN 037

WOMEN 038

JANITOR 039

ELEC/TEL 040

LOCKERS 041

MEETING ROOMS 042

STORAGE 043

VESTIBULE 044

VESTIBULE 045

LOBBY 046

VESTIBULE 047

CORRIDOR 048

1 FIRST LEVEL PLUMBING PLAN
SCALE: 1/8" = 1'-0"

FINAL CONSTRUCTION SET

H-E / YODER ENGINEERS, INC.
2998 E. BIG BEAVER CREEK BLVD. SUITE 301
P.O. BOX 5760, AVON, CO. 81620
PH. (970) 949-6000 FAX (970) 949-1961

SINK COMBS DETHLEFS

Issues/Revisions	Date:
SCHEMATIC DESIGN	9-6-00
PROGRESS PRINT	9-30-00
DD SET	0-13-00
FOR CONSTRUCTION	0-16-01
1 REVISIONS	03-28-01
PRINT CONSTRUCTION SET	04-26-01

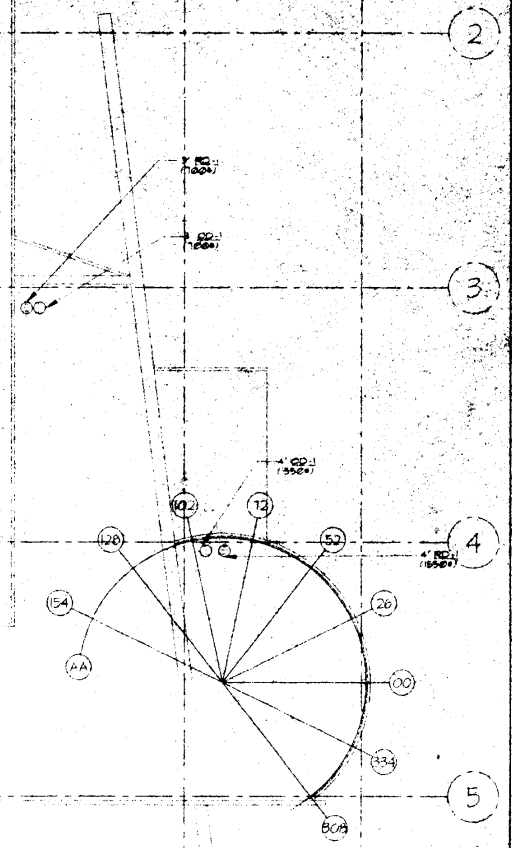
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

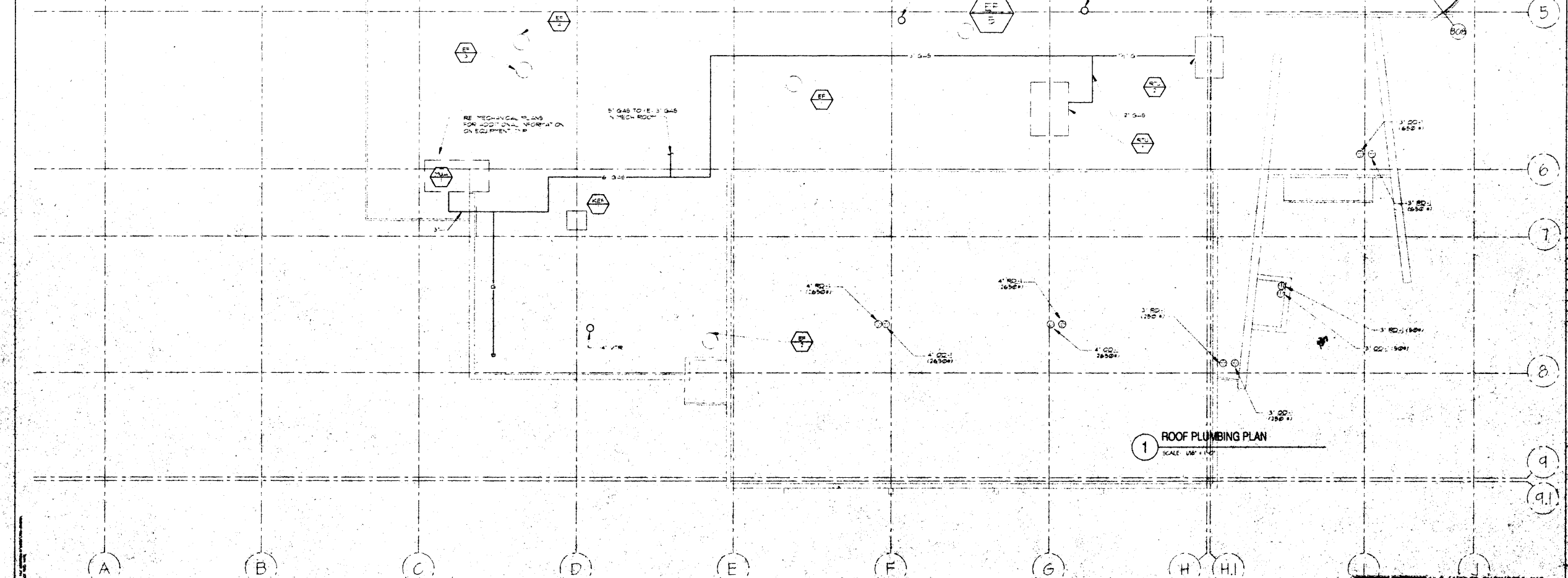
SCD Project No.: 9924

FIRST LEVEL
PLUMBING PLAN

Drawn by: MDC
Checked by: MPB

P2.20




RE: MECHANICAL PLANS FOR ADDITIONAL INFORMATION ON EQUIPMENT
5" GAS TO E. 3" GAS MECH. ROOM
3" GAS
3"
4" SD
4" SD
3" SD
3" SD
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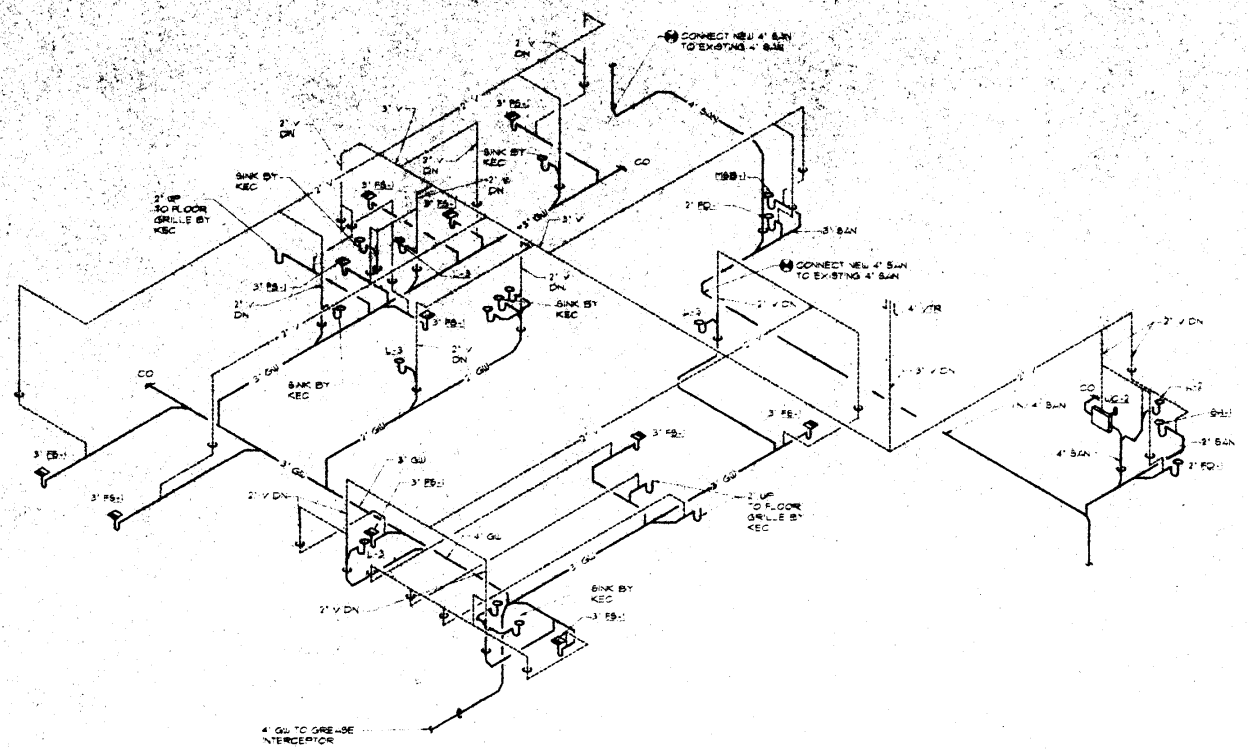
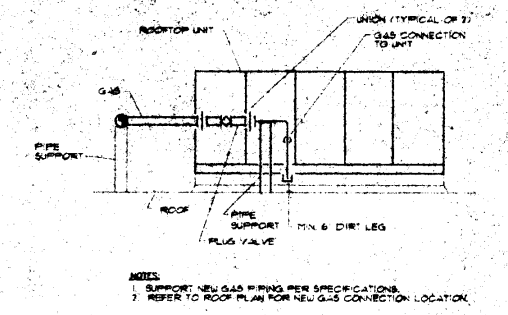
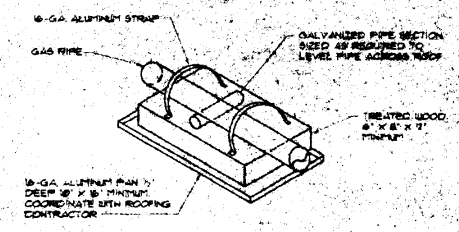
3



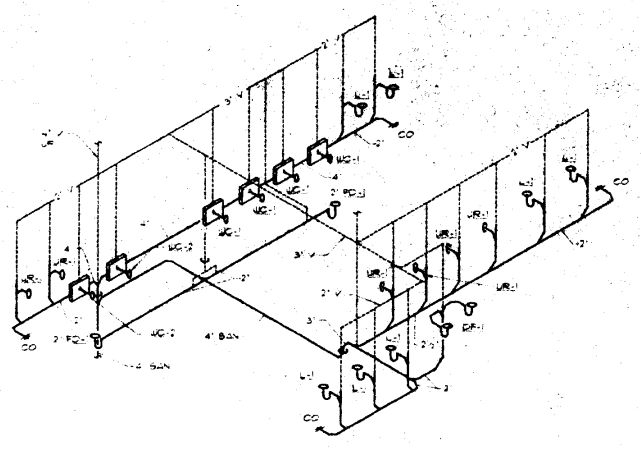
KITCHEN WASTE AND VENT ISOMETRIC

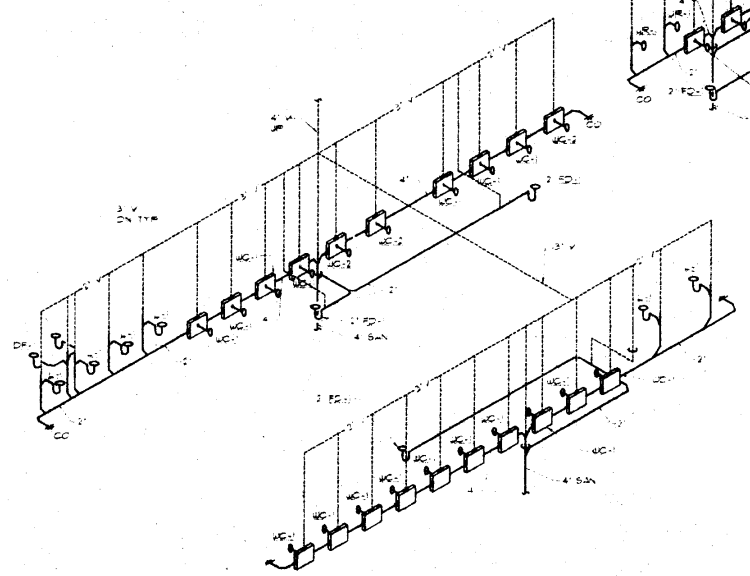


1 P3.10 GAS PIPE CONNECTION DIAGRAM
SCALE: NONE

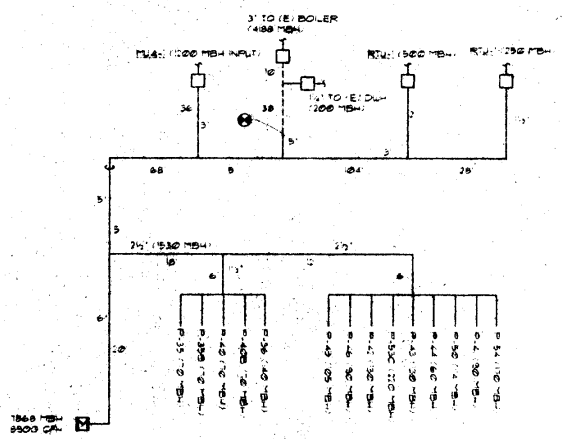


2 P3.10 GAS PIPE SUPPORT ON ROOF DIAGRAM
NO SCALE





RESTROOM WASTE AND VENT ISOMETRIC



1 P3.10 GAS RISER DIAGRAM
SCALE: NONE

SINK COMBS DETAILS

Issues/Revisions	Date
SCHEMATIC DESIGN	11-5-08
PROGRESS PRINT	12-10-08
DD SET	02-19-09
FOR CONSTRUCTION	05-15-09
1 REVISIONS	05-26-09
FINAL CONSTRUCTION SET	08-26-09

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No. 9424

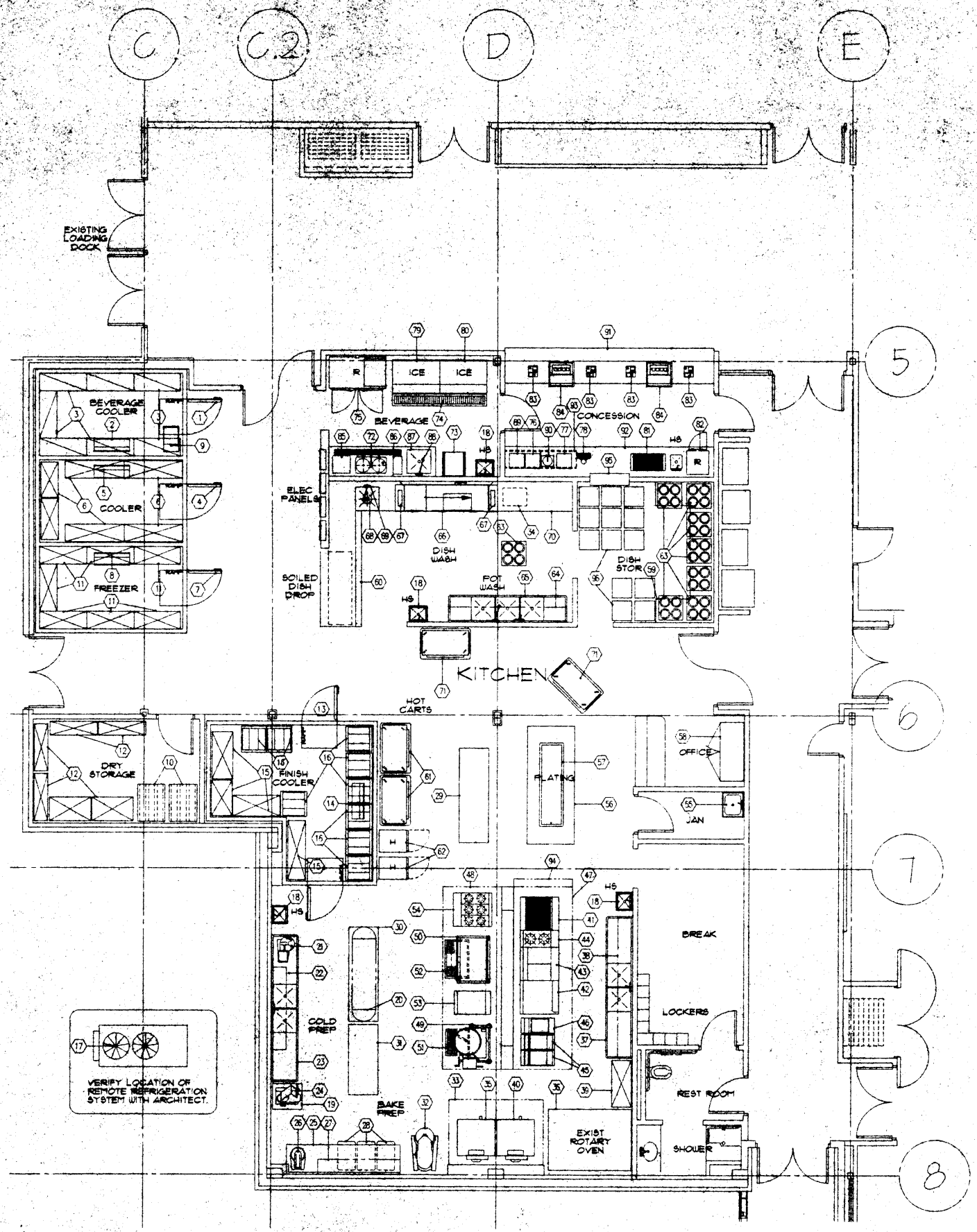
PLUMBING ISOMETRICS

Drawn by: MBC
Checked by: MRB

P3.10

FINAL CONSTRUCTION SET

M-E / YODER ENGINEERS, INC.
6048 E. EVANS CREEK BLVD. SUITE 201
P.O. BOX 5760, AVON, CO. 81620
PH: (970) 949-0800 FAX: (970) 949-1957



KITCHEN AND CONCESSION
MAIN LEVEL - PARTIAL FLOOR PLAN
1/4" = 1'-0"

Food Service Equipment Schedule

Item	Qty	DESCRIPTION
1	1	WALK-IN COOLER
2	1	EVAPORATOR COIL - COOLER
3	3	DUNNAGE RACK
4	1	WALK-IN COOLER
5	1	EVAPORATOR COIL - COOLER
6	6	SHELVING UNIT - EXISTING
7	1	WALK-IN FREEZER
8	1	EVAPORATOR COIL - FREEZER
9	1	BEER SYSTEM - ALTERNATE
10	2	CAN RACK - EXISTING
11	7	SHELVING UNIT - EXISTING
12	6	SHELVING UNIT - EXISTING
13	1	WALK-IN COOLER
14	1	EVAPORATOR COIL - COOLER
15	4	SHELVING UNIT - EXISTING
16	9	MOBILE RACK
17		REMOTE REFRIGERATION SYSTEM
18	4	HAND SINK
19	1	MOBILE SLICER STAND
20	1	OVERHEAD POT RACK - EXISTING
21	1	FOOD CUTTER - EXISTING
22	1	WALL SHELF - EXISTING
23	1	TABLE W/ SINKS
24	1	SLICER - EXISTING
25	1	WORK TABLE
26	1	MIXER, 20-QUART - EXISTING
27	1	WALL SHELF - EXISTING
28	3	INGREDIENT BIN - EXISTING
29	1	WORK TABLE - EXISTING
30	1	WORK TABLE - EXISTING
31	1	WORK TABLE - EXISTING
32	1	MIXER, 60-QUART
33	1	EXHAUST HOOD
34	1	BOOSTER HEATER
35	1	DOUBLE CONVECTION OVEN
36	1	ROTARY OVEN - EXISTING
37	1	2 COMPARTMENT SINK
38	1	SHELF, WALL-MOUNTED
39	1	SHELVING UNIT - EXISTING
40	1	DOUBLE CONVECTION OVEN - EXISTING
41	1	CHARBROILER
42	1	GRIDDLE W/OVEN - EXISTING
43	1	HOT TOP RANGE W/OVEN - EXISTING
44	1	2-BURNER RANGE
45	2	FRYER
46	1	FRYER - EXISTING
47	1	EXHAUST HOOD
48	1	EXHAUST HOOD
49	1	TILTING KETTLE 40 GAL
50	1	TILT SKILLET, 40 GAL. - EXISTING
51	1	FLOOR TROUGH
52	1	FLOOR TROUGH
53	1	CONVECTION STEAMER
54	1	6 - BURNER RANGE - EXISTING
55	1	MOP SINK
56	1	PLATING TABLE
57	1	BAIN MARIE, DROP-IN
58	1	LIQUOR CAGE
59	1	PLATE SHELVING - BY G.C.
60	1	SOILED DISH TABLE
61	2	BANQUET CART
62	2	SLOW COOK OVEN
63	8	DISPENSER, DISH
64	1	SHELF, WALL-MOUNTED WITH POT RACK
65	1	POT SINK W/PRERINSE - EXISTING
66	1	DISHWASHER - EXISTING
67	2	EXHAUST DUCT
68	1	DISPOSER
69	1	PRERINSE
70	1	CLEAN DISH TABLE
71	2	BANQUET CART - EXISTING
72	1	COFFEE URN - EXISTING
73	1	CART, CUP AND GLASS
74	1	FLOOR TROUGH
75	1	REFRIGERATOR, 2-SECTION - EXISTING
76	1	NACHO CHIP WARMER - ALTERNATE
77	1	PRETZEL DISPLAY/WARMER - ALTERNATE
78	1	BEER TOWER W/DRAINER - ALTERNATE
79	1	ICE MACHINE W/BIN - EXISTING
80	1	ICE MACHINE W/BIN
81	1	HOT DOG GRILL - ALTERNATE
82	1	COUNTERTOP REFRIGERATOR - EXISTING
83	4	P.O.S. STATION - BY OWNER
84	2	SODA/ICE DISPENSER - BY PURVEYOR
85	1	COFFEE BREWER - EXISTING
86	1	ICED TEA BREWER - EXISTING
87	1	BEVERAGE COUNTER
88	1	GLASS FILLER
89	1	POPCORN POPPER - EXISTING
90	1	NACHO CHEESE DISPENSER - EXISTING
91	1	CONCESSION SERVICE COUNTER
92	1	CONCESSION BACK COUNTER
93	1	W/C SODA SYSTEM - BY PURVEYOR
94	1	FIRE PROTECTION SYSTEM
95	1	WINDOW FRAME & SILL
96	13	MOBILE GLASS RACK DOLLIE

EQUIPMENT PLAN NOTES

THE INFORMATION CONTAINED ON THIS DRAWING IS FOR REFERENCE ONLY AND IS NOT FOR CONSTRUCTION. ARCHITECT, ENGINEER AND CONTRACTORS SHALL VERIFY LOCATION OF ROUGH-INS AND SERVICE REQUIREMENTS WITH FIELD DIMENSIONS AND CONDITIONS. COORDINATE INSTALLATION REQUIREMENTS OF FOOD/BEVERAGE SERVICE EQUIPMENT WITH KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) EQUIPMENT DESIGNATED ON PLAN BY NOTE REFOOD IS DEFINED AS "NOT BY FOODSERVICE CONSULTANT CONTRACT"

Site Outline Drawing

KEY PLAN

Issues/Revisions:	Date:
100% DD	7/25/03
PROGRESS SET #1	02/06/04
100% CONSTRUCTION DOCUMENTS	4/23/04
FINAL CONSTRUCTION SET	6/25/2004

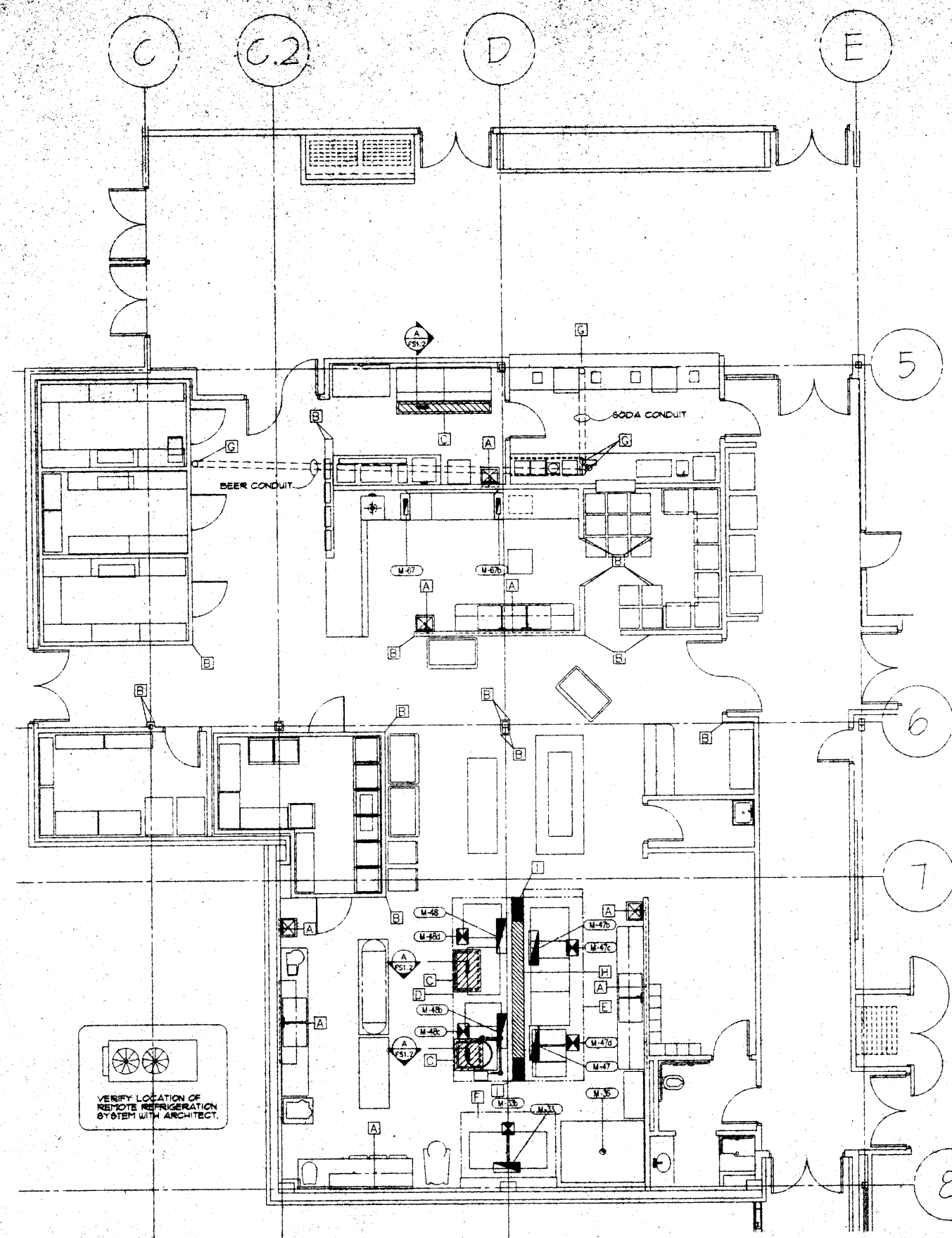
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, CO

SCD Project No. 9924

FOODSERVICE EQUIPMENT PLAN

Drawn by: PMR
Checked by: SJC

FS1.1

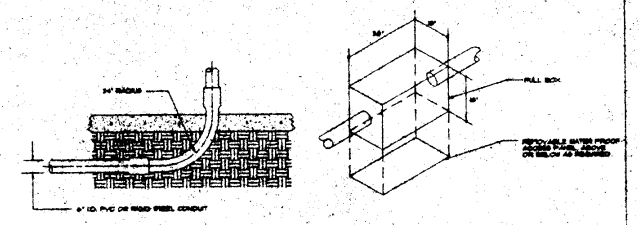


KITCHEN AND CONCESSION
MAIN LEVEL - PARTIAL FLOOR PLAN

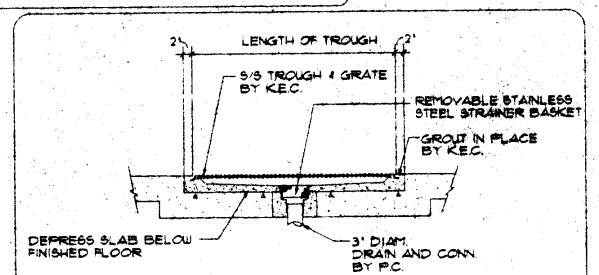
1/4" = 1'-0"

BEVERAGE CONDUIT NOTES

1. ALL CONDUIT TO BE 3/4" OR #1/2, TYPE DWV - WATER PROOF
2. ALL BENDS TO BE "LONG SWEEP" 24" MINIMUM RADIUS.
3. UTILIZE THE MOST DIRECT ROUTE WITH THE FEWEST BENDS/ELBOWS AS POSSIBLE.
4. PROVIDE ACCESSIBLE PULL BOXES EVERY 75 FEET OR THREE (3) BENDS WHICHEVER OCCURS FIRST. MAINTAIN ACCESS TO BOXES UNTIL BEVERAGE LINE IS PULLED.
5. DEBURR ALL SHARP EDGES AND SAW CUTS ON INTERIOR OF CONDUIT.
6. STUB UPS TO BE 4" ABOVE FINISHED FLOOR.
7. CAP ENDS OF CONDUIT DURING CONSTRUCTION.
8. VERIFY FLOOR/CEILING STUB LOCATIONS WITH CONTRACTOR.



A FS1.2 **BEVERAGE CONDUIT DETAILS**
NOT TO SCALE



NOTE: LENGTH AND WIDTH OF TROUGH DEPRESSION SHOULD BE 2" LARGER THAN ACTUAL TROUGH

A **FLOOR TROUGH SECTION**
NOT TO SCALE

NOTES

- [A] WALL BACKING, BY G.C., VERIFY SIZE & LOCATION W/ K.E.C.
- [B] 3" X 3" X 48" HIGH 16 GA. S/S CORNER GUARDS, BY G.C., TYPICAL
- [C] DEPRESS AREA 4-1/2" BELOW FINISHED FLOOR.
  STRUCTURAL SUPPORT TO UNDERSIDE OF STRUCTURE ABOVE, BY G.C.,TO SUPPORT MINIMUM WEIGHTS AS FOLLOWS:
  - [D] EXHAUST HOOD 1395 LBS.
  - [E] EXHAUST HOOD 1395 LBS.
  - [F] EXHAUST HOOD 720 LBS.

  COORDINATE INSTALLATION W/ K.E.C.
- [G] 6" I.D. CONDUIT BELOW FLOOR, BY G.C. FOR BEVERAGE SYSTEM CONDUIT SHALL HAVE 24" RADIUS AT ALL BENDS & TERMINATE 6" ABOVE FIN. FLR. K.E.C. TO SEAL TOPS OF CONDUIT AFTER BEVERAGE SYSTEM INSTALLATION IS COMPLETE.
- [H] 54" LOW WALL, BY G.C.
- [I] FULL HEIGHT WALL, BY G.C.

MECHANICAL CONNECTION SCHEDULE

M-33	10" X 14" EXHAUST DUCT, 1600-CFM AT 0.4-IN/WC STATIC PRESSURE, CONNECT AT ITEM 33, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-33b	12" X 12" SUPPLY DUCT, 800-CFM AT 0.15-IN/WC STATIC PRESSURE, CONNECT AT ITEM 33, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-36	6" DIA. EXHAUST STACK, CONNECT TO ITEM 36, ROTARY OVEN AT 6'-7"-AFF (VERIFY EXISTENCE OF EXHAUST FAN).
M-47	10" X 18" EXHAUST DUCT, 2325-CFM AT 0.6-IN/WC STATIC PRESSURE, CONNECT AT ITEM 47, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-47b	10" X 16" EXHAUST DUCT, 2325-CFM AT 0.6-IN/WC STATIC PRESSURE, CONNECT AT ITEM 47, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-47c	12" X 16" SUPPLY DUCT, 2325-CFM AT 0.15-IN/WC STATIC PRESSURE, CONNECT AT ITEM 47, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-47d	12" X 16" SUPPLY DUCT, 2325-CFM AT 0.15-IN/WC STATIC PRESSURE, CONNECT AT ITEM 47, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-48	10" X 16" EXHAUST DUCT, 1938-CFM AT 0.5-IN/WC STATIC PRESSURE, CONNECT AT ITEM 48, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-48b	10" X 16" EXHAUST DUCT, 1938-CFM AT 0.5-IN/WC STATIC PRESSURE, CONNECT AT ITEM 48, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-48c	12" X 16" SUPPLY DUCT, 1938-CFM AT 0.15-IN/WC STATIC PRESSURE, CONNECT AT ITEM 47, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-48d	12" X 16" SUPPLY DUCT, 1938-CFM AT 0.15-IN/WC STATIC PRESSURE, CONNECT AT ITEM 47, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-67	4" X 16" EXHAUST DUCT, 200-CFM AT 0.25-IN/WC STATIC PRESSURE, CONNECT AT ITEM 48, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.
M-67b	4" X 16" EXHAUST DUCT, 400-CFM AT 0.25-IN/WC STATIC PRESSURE, CONNECT AT ITEM 48, FROM CEILING, CONNECTION AT 8'-6"-AFF; ALL DUCTWORK PER NFPA-96.

BUILDING CONDITIONS & VENTILATION NOTES

THE INFORMATION CONTAINED ON THIS DRAWING IS FOR REFERENCE ONLY AND IS NOT FOR CONSTRUCTION. ARCHITECT, ENGINEER AND CONTRACTORS SHALL VERIFY LOCATION OF ROUGH-INS AND SERVICE REQUIREMENTS WITH FIELD DIMENSIONS AND CONDITIONS. COORDINATE INSTALLATION REQUIREMENTS OF FOODSERVICE EQUIPMENT WITH KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) EQUIPMENT DESIGNATED BY NOT SHOWN IS DEFINED AS "NOT FOODSERVICE CONSULTANT CONTRACT."

1. ALL WORK INDICATED ON THIS PLAN AND IN THESE NOTES ARE TO BE BY OTHERS THAN THE KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) UNLESS NOTED.
2. THE BUILDING CONDITIONS & VENTILATION PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND HEIGHTS, CONNECTION SIZES, POINTLOAD REQUIREMENTS. FOR FINAL LOCATIONS SEE K.E.C. DIMENSIONED PLANS. DIMENSIONS, WHERE SHOWN, ARE FROM COLUMN CENTERS OF FINISHED RECORD, AND FINISHED WALLS
3. WALLS, FLOORS, AND CEILINGS IN KITCHEN, PREPARATION, SERVICE, AND WAREWASHING AREAS OR ANY OTHER LOCATION WHERE FOOD AND/OR BEVERAGES ARE HANDLED SHALL BE SMOOTH, EASILY CLEANABLE, NON - ABSORBENT, AND DURABLE. WALLS AND CEILINGS ARE TO BE LIGHT COLORED.
4. CONSTRUCT PARTITION WALLS BETWEEN KITCHEN AREAS AND PUBLIC AREAS FOR MAXIMUM SOUND CONTROL.
5. PROVIDE FLOOR LOADING CAPACITY AT A MINIMUM OF 100 POUNDS PER SQUARE FOOT OR AS REQUIRED BY LOCAL CODES OR SPECIAL EQUIPMENT REQUIREMENTS.
6. MINIMUM VENTILATION REQUIREMENTS:
   A. KITCHEN, SERVICE, PREPARATION, AND WAREWASHING AREAS - 40 TO 60 CHANGES EVERY HOUR.
   B. VESTIBULES - 2 TO 3 CHANGES PER HOUR.
   C. OFFICES - 4 AIR CHANGES PER HOUR (AIR CONDITIONING RECOMMENDED).
   D. REFRIGERATED CHAMBERS - 6 AIR CHANGES PER HOUR - 750 CFM PER H.P., WATER COOLED - 200 CFM PER H.P. SUPPLY AND EXHAUST.
   E. OTHER AREAS - AS REQUIRED BY CODE OR AS NOTED.
7. VERIFY THAT VENTILATION REQUIREMENTS SHOWN ARE IN COMPLIANCE WITH LOCAL CODES.
8. FINAL DUCT CONNECTIONS ARE BY MECHANICAL CONTRACTOR.
9. ROUGH-IN/CONNECTION HEIGHTS NOTED ON THIS MECHANICAL CONNECTION SCHEDULE INDICATE HEIGHT ABOVE FINISHED FLOOR (A.F.F.).
10. GENERAL CONTRACTOR, OR EQUIVALENT, SHALL PURNISH AND INSTALL THE FOLLOWING:
    A. HEAVY DUTY METAL STRUT IN ALL FLOOR TYPES AS REQUIRED FOR WALL MOUNTED KITCHEN EQUIPMENT.
    B. WOOD BLOCKING AND INSTALLATION REQUIREMENTS WITH K.E.C. MOUNT ALL SHELVES AT 54" AND 66" - A.F.F., UNLESS OTHERWISE NOTED. MOUNT HANDRAILS OTHERWISE, BY PLUMBING CONTRACTORS, AT 36"-A.F.F.
    C. SLOPE FLOORS TO FLOOR DRAINS, FLOOR DRAINS, AND FLOOR TROUGHS.
    D. PROVIDE ROOF/WALL OPENINGS AND/OR PASSAGES TO ARRANGE ACCESS FOR ALL KITCHEN EQUIPMENT. COORDINATE SIZES WITH K.E.C.
    E. PROVIDE WALL-IN REFRIGERATOR DEPRESSIONS, SMOOTH AND STRIPPED - LEVEL WHERE DEPRESSIONS ARE REQUIRED. DEPTH AS NOTED. COORDINATE REQUIREMENTS WITH K.E.C.
    F. FILL UNDER DEPRESSIONS AROUND WALK-INS, FLOOR TROUGHS, WITH GROUT, FINISHED FLOOR, AND WATERING COVED BASE AFTER WALK-INS AND FLOOR TROUGHS HAVE BEEN INSTALLED BY K.E.C.
    G. PROVIDE MASONRY PIERS, ENCH TENDING WITH STONES - SMOOTH AND LEVEL FINISH.
    H. GROVED, FIRE RATED MATERIAL AND/OR INSULATION AS REQUIRED FOR EXHAUST DUCTS, VENT STACKS, PORTION OF EXHAUST HOODS ABOVE COOLING AIRCRAFT, HEAT PROCESSING EQUIPMENT, ROOF/WALL PENETRATIONS, ETC. PER LOCAL CODES.
    I. PROVIDE 6" COVED BASE AND/OR COVED INTEGRAL FLOOR MATERIALS AS REQUIRED AT ALL VERTICAL SURFACES WHERE THEY MEET FLOOR SURFACES.
    J. PROVIDE STAINLESS STEEL CORNER GUARDS FROM 24" TO +54"-A.F.F., TYPICAL AT ALL EXPOSED CORNERS IN FOODSERVICE AREAS.
    K. PROVIDE SLEEVES OF CONDUITS AT WALL/FLOOR PENETRATIONS AS REQUIRED FOR REFRIGERATION PIPING

SINK COMBS DETHLEFS

WC&A

KEY PLAN

Issues/Revisions:	Date:
100% DD	12-15-00
PROGRESS SET #1	02-16-01
100% CONSTRUCTION DOCUMENTS	03-14-01
FINAL CONSTRUCTION SET	04-26-01

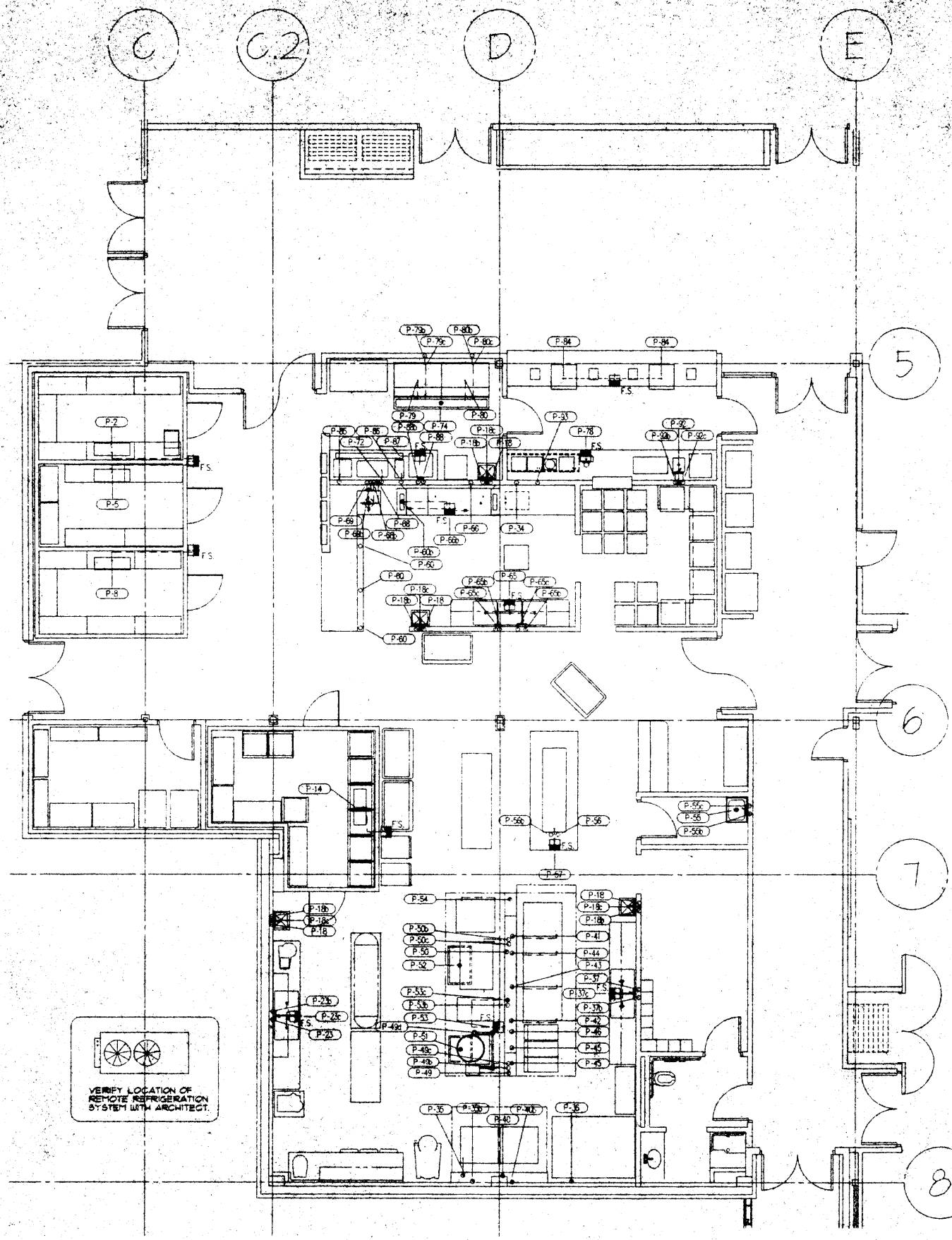
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, CO

SCD Project No: 9924

FOODSERVICE BUILDING CONDITIONS & VENTILATION PLAN

Drawn by: PNR
Checked by: SMC

FS1.2



KITCHEN AND CONCESSION
MAIN LEVEL - PARTIAL FLOOR PLAN
1/4" = 1'-0"

PLUMBING CONNECTION SCHEDULE

P-2 1" INDIRECT WASTE FROM ITEM 2, EVAP. COIL - COOLER, AT 7'-8"-AFF, TO F.S.

P-5 1" INDIRECT WASTE FROM ITEM 5, EVAP. COIL - COOLER, AT 7'-8"-AFF, TO F.S.

P-8 1" INDIRECT WASTE FROM ITEM 8, EVAP. COIL - COOLER, AT 7'-6"-AFF, TO F.S.

P-14 1" INDIRECT WASTE FROM ITEM 14, EVAP. COIL - COOLER, AT 7'-6"-AFF, TO F.S.

P-18 1/2" HOT WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 18, HAND SINK, AT 3'-0"-AFF

P-18b 1/2" COLD WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 18, HAND SINK, AT 3'-0"-AFF

P-18c 2" DIRECT WASTE, STUB OUT WALL AT 1'-6" AND CONNECT AT ITEM 18, HAND SINK, AT 2'-0"-AFF.

P-23 1/2" HOT WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 23, TABLE W/SINKS, AT 3'-0"-AFF.

P-23b 1/2" COLD WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 23, TABLE W/SINKS, AT 3'-0"-AFF.

P-23c 2" INDIRECT WASTE FROM ITEM 23, TABLE W/SINKS, AT 1'-8"-AFF, TO F.S.

P-34 3/4" HOT WATER, 140°F MINIMUM, STUB OUT WALL AT 8"-AFF AND CONNECT AT ITEM 34, BOOSTER HEATER, AT 8"-AFF.

P-35 3/4" GAS SUPPLY, 70-MBTUH, STUB OUT WALL AT 1'-0"-AFF AND CONNECT AT ITEM 35, DOUBLE CONVECTION OVEN, AT 2'-0"-AFF.

P-35b 3/4" GAS SUPPLY, 70-MBTUH, STUB OUT WALL AT 3'-0"-AFF AND CONNECT AT ITEM 35, DOUBLE CONVECTION OVEN, AT 4'-0"-AFF.

P-36 ___" GAS SUPPLY, 140-MBTUH, STUB OUT WALL AT _'-___"-AFF AND CONNECT AT ITEM 36, ROTARY OVEN, AT _'-___"-AFF. (VERIFY)

P-37 1/2" HOT WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 37, 2 COMPARTMENT SINK, AT 3'-0"-AFF.

P-37b 1/2" COLD WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 37, 2 COMPARTMENT SINK, AT 3'-0"-AFF.

P-37c 2" INDIRECT WASTE FROM ITEM 37, 2 COMPARTMENT SINK, AT 1'-8"-AFF, TO F.S.

P-40 3/4" GAS SUPPLY, 70-MBTUH, STUB OUT WALL AT 1'-0"-AFF AND CONNECT AT ITEM 35, DOUBLE CONVECTION OVEN, AT 2'-0"-AFF.

P-40b 3/4" GAS SUPPLY, 70-MBTUH, STUB OUT WALL AT 3'-0"-AFF AND CONNECT AT ITEM 35, DOUBLE CONVECTION OVEN, AT 4'-0"-AFF.

P-41 3/4" GAS SUPPLY, 90-MBTUH, STUB OUT WALL AT 2'-5"-AFF AND CONNECT AT ITEM 41, CHAR-BROILER, AT 2'-9"-AFF.

P-42 3/4" GAS SUPPLY, 130-MBTUH, STUB OUT WALL AT 2'-5"-AFF AND CONNECT AT ITEM 42, GRIDDLE W/OVEN, AT 2'-10"-AFF

P-43 3/4" GAS SUPPLY, 130-MBTUH, STUB OUT WALL AT 2'-5"-AFF AND CONNECT AT ITEM 43, HOT TOP RANGE W/OVEN, AT 2'-10"-AFF

P-44 3/4" GAS SUPPLY, 60-MBTUH, STUB OUT WALL AT 2'-5"-AFF AND CONNECT AT ITEM 44, 2-BURNER RANGE, AT 2'-10"-AFF.

P-45 3/4" GAS SUPPLY, 105-MBTUH, STUB OUT WALL AT 1'-0"-AFF AND CONNECT AT ITEM 45, FRYER, AT 1'-7"-AFF.

P-46 3/4" GAS SUPPLY, 90-MBTUH, STUB OUT WALL AT 1'-0"-AFF AND CONNECT AT ITEM 46, FRYER, AT 1'-7"-AFF.

P-49 3/4" STEAM SUPPLY, FROM ITEM 53, STEAMER, AND CONNECT AT ITEM 49, TILTING KETTLE, 40 GAL., AT 1'-1"-AFF.

P-49b 1/2" HOT WATER, STUB OUT WALL AT 1'-8"-AFF AND CONNECT AT ITEM 49, TILTING KETTLE, 40 GAL., AT 2'-0"-AFF

P-49c 1/2" COLD WATER, STUB OUT WALL AT 1'-8"-AFF AND CONNECT AT ITEM 49, TILTING KETTLE, 40 GAL., AT 2'-0"-AFF

P-49d 1/2" CONDENSATE RETURN FROM ITEM 49, KETTLE, AT 1'-1"-AFF. CONNECT AT ITEM 53, STEAMER

P-50 1/2" GAS SUPPLY, 114-MBTUH, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 50, TILT SKILLET, 40-GAL., AT 1'-8"-AFF.

P-50b 1/2" COLD WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 50, TILT SKILLET, 40-GAL., AT 3'-2"-AFF.

P-50c 1/2" HOT WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 50, TILT SKILLET, 40-GAL., AT 3'-2"-AFF.

P-51 4" DIRECT WASTE, STUB BELOW FINISH FLOOR LEVEL AT -3"-AFF AND CONNECT AT ITEM 51, FLOOR TROUGH, AT -3"-AFF

P-52 4" DIRECT WASTE, STUB BELOW FINISH FLOOR LEVEL AT -3"-AFF, AND CONNECT AT ITEM 52, FLOOR TROUGH, AT -3"-AFF.

P-53 1-1/2" INDIRECT WASTE FROM ITEM 53, CONVECTION STEAMER, AT 5"-AFF, TO F.S

P-53b 1/2" COLD WATER, STUB OUT WALL AT 1'-0"-AFF AND CONNECT AT ITEM 53, CONVECTION STEAMER, AT 8"-AFF.

P-53c 3/4" GAS SUPPLY, 120-MBTUH, STUB OUT WALL AT 1'-2"-AFF AND CONNECT AT ITEM 53, CONVECTION STEAMER, AT 1'-0"-AFF.

P-54 3/4" GAS SUPPLY, 120-MBTUH, STUB OUT WALL AT 2'-5"-AFF AND CONNECT AT ITEM 54, 6-BURNER RANGE, AT 2'-10"-AFF.

P-55 2" DIRECT WASTE, STUB UP FROM FLOOR 4"-AFF, CONNECT AT ITEM 55, MOP SINK, AT 0"-AFF.

P-55b 1/2" COLD WATER, STUB OUT WALL AT 3'-0"-AFF AND CONNECT AT ITEM 55, MOP SINK, AT 3'-0"-AFF.

P-55c 1/2" HOT WATER, STUB OUT WALL AT 3'-0"-AFF AND CONNECT AT ITEM 55, MOP SINK, AT 3'-0"-AFF.

P-56 1/2" HOT WATER, STUB UP 4" AND CONNECT TO ITEM 56, PLATING TABLE, AT 2'-10"-AFF.

P-56b 1/2" COLD WATER, STUB UP 4" AND CONNECT TO ITEM 56, PLATING TABLE, AT 2'-10"-AFF.

P-57 3/4" INDIRECT WASTE FROM ITEM 57, BAIN MARIE, DROP-IN, AT 2'-3"-AFF, TO F.S.

P-60 3/4" COLD WATER, INTERCONNECTED FROM ITEM 68, DISPOSER.

P-60b 1" INDIRECT WASTE FROM ITEM 60, DISHWASHER, QUICK DRAIN, TO F.S.

P-65 2" INDIRECT WASTE FROM ITEM 65, POT SINK W/PRE-RINSE, AT 1'-8"-AFF, TO F.S.

P-65b 3/4" HOT WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 65, POT SINK W/PRE-RINSE, AT 3'-0"-AFF.

P-65c 3/4" COLD WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 65, POT SINK W/PRE-RINSE, AT 3'-0"-AFF.

P-66 3/4" HOT WATER, FROM ITEM 34, BOOSTER HEATER, AT 4'-11"-AFF AND CONNECT AT ITEM 66, DISHWASHER, CONVEYOR TYPE, AT 5'-4"-AFF, 245 GPH.

P-66b 2" INDIRECT WASTE FROM ITEM 66, DISHWASHER, AT 7 1/2"-AFF, TO F.S. (VERIFY IF CONNECTED TO GREASE TRAP)

P-68 2" DIRECT WASTE, STUB OUT WALL AT 1'-0"-AFF AND CONNECT AT ITEM 68, DISPOSER, AT 1'-6"-AFF.

P-68b 1" COLD WATER, STUB OUT WALL AT 1'-6"-AFF AND CONNECT AT ITEM 68, DISPOSER, AT 1'-10"-AFF. PROVIDE GUSHER HEADS FOR ITEM 60, SOILED DISHTABLE

P-69 1/2" HOT WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 69, PRE-RINSE, AT 2'-10"-AFF.

P-69b 1/2" COLD WATER, STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 69, PRE-RINSE, AT 2'-10"-AFF.

P-72 3/8" COLD WATER, STUB OUT WALL AT 4'-2"-AFF AND CONNECT AT ITEM 72, COFFEE URN, AT 3'-6"-AFF.

P-74 4" DIRECT WASTE, STUB BELOW FINISH FLOOR LEVEL AT -3"-AFF, AND CONNECT AT ITEM 74, FLOOR TROUGH, AT -3"-AFF.

P-78 1" INDIRECT WASTE FROM ITEM 78, BEER TOWER W/DRAINER, AT 1'-6"-AFF, TO F.S.

P-79 3/4" INDIRECT WASTE FROM ITEM 79, ICE MACHINE W/BIN, AT 6"-AFF, TO FLOOR TROUGH.

P-79b 1/2" COLD WATER, STUB OUT WALL AT 4'-6"-AFF AND CONNECT AT ITEM 79, ICE MACHINE W/BIN, AT 4'-2"-AFF.

P-79c 1" INDIRECT WASTE FROM ITEM 79, ICE MACHINE W/BIN, AT 4'-6"-AFF, TO FLOOR TROUGH.

P-80 3/4" INDIRECT WASTE FROM ITEM 80, ICE MACHINE W/BIN, AT 6"-AFF, TO FLOOR TROUGH.

P-80b 1/2" COLD WATER, STUB OUT WALL AT 4'-6"-AFF AND CONNECT AT ITEM 80, ICE MACHINE W/BIN, AT 4'-2"-AFF.

P-80c 1" INDIRECT WASTE FROM ITEM 80, ICE MACHINE W/BIN, AT 4'-6"-AFF, TO FLOOR TROUGH.

P-84 1" INDIRECT WASTE FROM ITEM 84, SODA/ICE DISPENSER, AT 1'-0"-AFF, TO F.S.

P-85 1/2" COLD WATER, STUB OUT WALL AT 4'-2"-AFF AND CONNECT AT ITEM 85, COFFEE BREWER, AT 3'-6"-AFF.

P-86 1/2" COLD WATER STUB OUT WALL AT 4'-2"-AFF AND CONNECT AT ITEM 86, ICED TEA BREWER, AT 3'-6"-AFF.

P-87 1" INDIRECT WASTE FROM ITEM 87, BEVERAGE COUNTER, AT 2'-8"-AFF, TO F.S.

P-88 1/2" COLD WATER STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 88, GLASS FILLER, AT 2'-10"-AFF

P-88b 1/2" HOT WATER STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 88, GLASS FILLER, AT 2'-10"-AFF.

P-92 2" DIRECT WASTE, STUB OUT WALL AT 1'-8"-AFF AND CONNECT AT ITEM 92, CONCESSION BACKCOUNTER, AT 2'-10"-AFF

P-92b 1/2" COLD WATER STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 92, CONCESSION BACKCOUNTER, AT 2'-10"-AFF.

P-92c 1/2" HOT WATER STUB OUT WALL AT 1'-4"-AFF AND CONNECT AT ITEM 92, CONCESSION BACKCOUNTER, AT 2'-10"-AFF.

P-93 1/2" CW SUPPLY, STUB OUT WALL AT 1'-0"-AFF AND CONNECT TO ITEM 93, SODA SYSTEM, AT 1'-0"-AFF.

PLUMBING ROUGH-IN PLAN NOTES

THE INFORMATION CONTAINED ON THIS DRAWING IS FOR REFERENCE ONLY AND IS NOT FOR CONSTRUCTION. ARCHITECTS, ENGINEERS AND CONTRACTOR'S SHALL VERIFY LOCATION OF ROUGH-INS AND SERVICE REQUIREMENTS WITH FIELD DIMENSIONS AND CONDITIONS. CORPORATE INSTALLATION REQUIREMENTS OF FOOD/SERVICE EQUIPMENT WITH NATIONAL FOODSERVICE CONTRACTOR (F.E.C.) EQUIPMENT DESIGNATED BY NOTE MP300 IS DEFINED AS "300.00 FOODSERVICE CONSULTANT CONTRACT"

1. ALL ROUGH-INS AND CONNECTIONS SHOWN RELATIVE TO FOODSERVICE FIXTURES AND EQUIPMENT ONLY. SEE ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL PLUMBING REQUIREMENTS.
2. THIS PLUMBING PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS AND HEIGHTS, CONNECTION SIZES, PIPEWORK, AND LOAD REQUIREMENTS FOR FINAL LOCATIONS, SEE F.E.C. DIMENSIONED PLANS. DIMENSIONS, WHICH SHOWN, ARE FROM CLOSEST EDGES OF FINISHED FLOORS AND FINISHED WALLS
3. FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR, INCLUDING REQUIRED MATERIALS, SUCH AS, BUT NOT LIMITED TO, STOPS, VALVES, FILTERS, TRAPS, SPECIAL VALVES, PIPING, HOSES, ETC.
4. ROUGH-IN/CONNECTION HEIGHTS NOTED ON THE PLUMBING CONNECTION SCHEDULE INDICATE HEIGHT ABOVE FINISHED FLOOR (A.F.F.)
5. PLUMBING CONTRACTOR SHALL PERFORM AND INSTALL THE FOLLOWING:
   A. ALL WASTE, WASTE VENT, TRAPS AND AIR GAPPED DRAIN PIPE FROM 6" ROUGH-IN TO THE FOODSERVICE FIXTURE AND EQUIPMENT, TRAPS AS SHOWN ON THE PLANS. ROUGH-IN OUTLETS TO BE 6" OUT OF WALLS AT HEIGHT INDICATED A.F.F. TO CENTERLINE OF OUTLET. FLOOR ROUGH-INS TO STUB UP 4" A.F.F. IN OUTLET. ALL FLOOR CONNECTIONS SHALL BE WITH TRAPS.
   B. PRESSURE REDUCING AND/OR REGULATING VALVES FOR, BUT NOT LIMITED TO, WARMER/HOLDING, BOOSTER HEATERS, AND AS OTHERWISE NOTED, IN FOODSERVICE AREAS.
   C. ALL FLOOR SINKS COMPLETE WITH HALF GRATING, UNLESS OTHERWISE NOTED, AND REMOVABLE SEDIMENT BUCKETS SET FLUSH WITH FINISHED FLOOR, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
   D. ALL WASTE LINES, DIRECT AND INDIRECT, EXCEPT AS NOTED OTHERWISE. MINIMUM DIAMETER OF LINES SHALL BE AS NOTED IN THE PLUMBING CONNECTION SCHEDULE, REGARDLESS OF CONNECTION SIZE, AND SHALL BE PITCHED DOWNWARD. SANITARY DRAINS AS HIGH AS POSSIBLE A.F.F., PROVIDE CLEAN-OUTS ON ALL WASTE LINES.
   E. INDIRECT WASTE LINES FOR SINKS IN REFRIGERATED BOXES, PITCHED AT 1/4" PER FOOT DOWNWARD, WITH A 3" TRAP AT END OVER FLOOR SINK.
   F. PIPING ON EXTERIOR SHALL BE PARALLEL TO WALLS AND PENETRATE BUILDING WALL WITH WASTE LINE AT 1'-6"-AFF.
   G. ALL HOT WATER LINES SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION WITH A MINIMUM 'R' VALUE OF 4.0 AT A TEMPERATURE OF 140 DEG. F.
   H. ALL REFRIGERANT DRAINAGE TRAPS, SHALL BE OUTSIDE THE BUILDING IF AT ALL POSSIBLE.
   I. INSTALL FIRE PROTECTION SYSTEM CAP SHUT-OFF VALVE(S), FURNISHED BY THE FIRE PROTECTION SYSTEMS CONTRACTOR, WHEN GAS COOKING EQUIPMENT IS USED.
   J. VACUUM BREAKERS AS REQUIRED EXCEPT FOR UNITS PROVIDED WITH FOODSERVICE FIXTURES AND EQUIPMENT BY F.E.C.
   K. INSULATION ON ALL STEAM, HOT WATER, AND CONDENSATE LINES. IN THE FOODSERVICE AREAS, INSULATION SHALL HAVE HARD, SMOOTH, CLEANABLE COVER. ALL SUCH LINES SHALL BE COLOR CODED IN ACCORDANCE WITH APPLICABLE CODES.
   L. CLEAN-OUTS FOR STEAM, CONDENSATE, GAS, AND DRAIN LINES.
   M. INTERCONNECT WATER-HEATING AND BOOSTER HEATERS AS PER THE MANUFACTURER'S INSTRUCTIONS.
   N. INTERCONNECT HOOD CONTROL PANEL(S) WITH EXHAUST HOOD(S) AS PER THE MANUFACTURER'S INSTRUCTIONS.
   O. AREA FLOOR DRAINS AS LOCATED AND SPECIFIED BY PLUMBING ENGINEER AND AS REQUIRED BY CODE.
   P. PLUMBING FOR SPRAY RINSE HOSE BIBBS WITH VACUUM BREAKERS AS INDICATED.
   Q. INSTALLATION OF FOODSERVICE EQUIPMENT SHALL BE PERFORMED BY THE FOODSERVICE CONTRACTOR, UNLESS NOTED OTHERWISE.
   R. ASSEMBLE AND CONNECT ALL UNITS FURNISHED BY F.E.C. AS PART OF THE UTILITY CONNECTIONS (FROM STUBBED-UP SYSTEMS) TO INDIVIDUAL ITEMS OF EQUIPMENT.
6. CONCEAL ALL VENT PIPES IN WALLS OR CEILING SPACES. USE LOOP-VENTS FOR ISLAND FIXTURES.
7. ALL EXPOSED PIPING AND FITTINGS IN FOODSERVICE AREAS SHALL BE CHROME PLATED OR STAINLESS STEEL PAINT.
8. ROUGH-INS SHALL UNLESS SPECIFIED IN OTHER SECTIONS TO BE CHROME PLATED, OR STAINLESS STEEL.
9. ROUTE ALL LINES THROUGH EQUIPMENT TO AS NOT TO INTERFERE WITH THE INTENDED USE OF ANY EQUIPMENT OR ITS EQUIPMENT.
10. ALL TRADE LINES SHOWN OF THIS DRAWING ARE DESIGNED TO COMPLY WITH GENERALLY ACCEPTED HEALTH AND SANITARY CONDITIONS AND CODES. PLUMBING CONTRACTOR IS RESPONSIBLE FOR VERIFYING COMPLIANCE WITH LOCAL HEALTH AND SANITARY CODES. MAKE ALL ADJUSTMENTS AS REQUIRED.

SINK COMBO DETAILS

WC&A

KEY PLAN

Issues/Revisions	Date
100% DD	12-8-00
PROGRESS SET #1	02-16-01
100% CONSTRUCTION DOCUMENTS	05-14-01
FINAL CONSTRUCTION SET	06-26-01

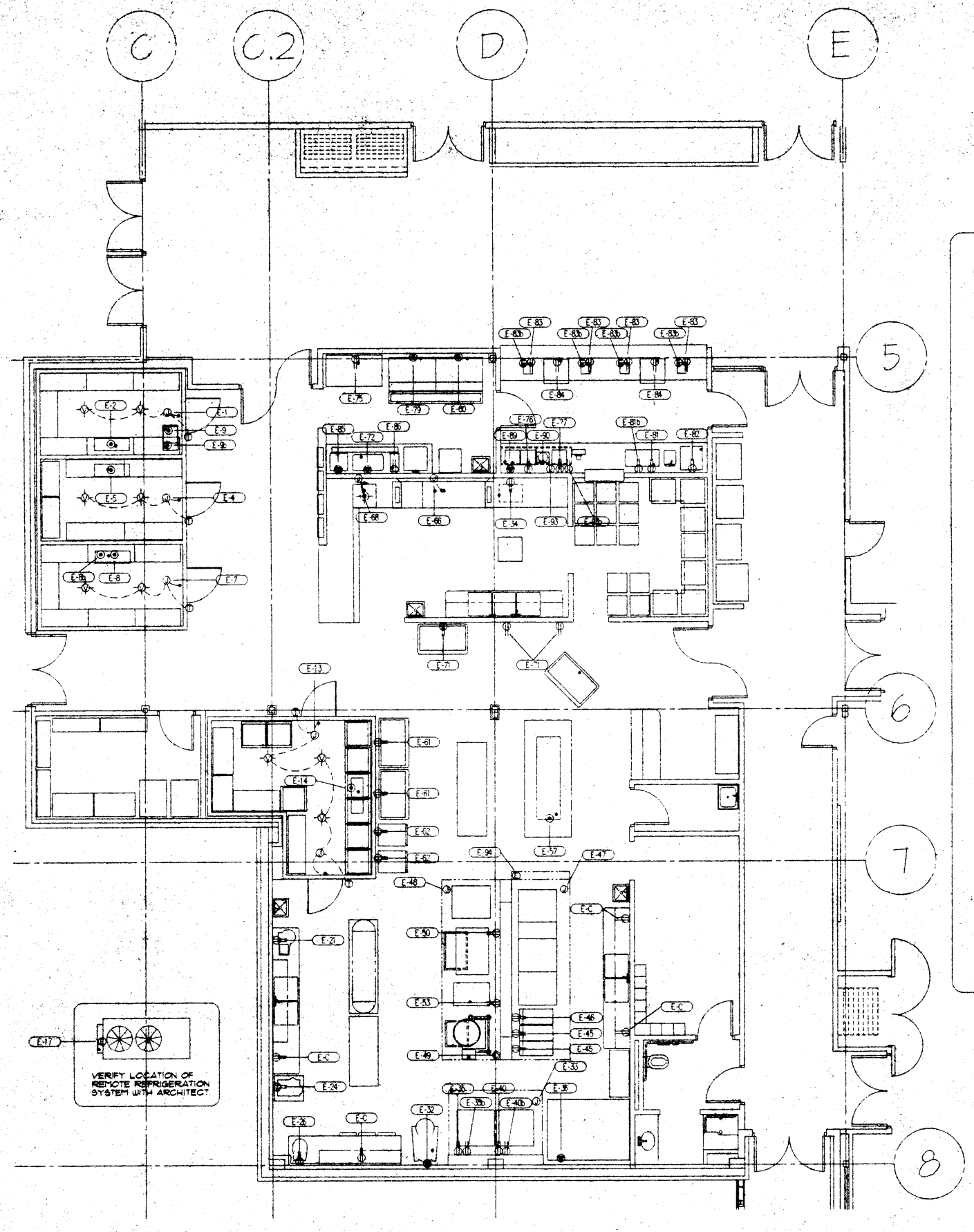
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, CO

SGD Project No. 9924

FOODSERVICE PLUMBING PLAN

Drawn by: PHR
Checked by: SMC

FS1.3



KITCHEN AND CONCESSION
MAIN LEVEL - PARTIAL FLOOR PLAN
1/4" = 1'-0"

ELECTRICAL CONNECTION SCHEDULE

E-C 120-V, 1-PH SERVICE, 20 FL AMP CIRCUIT, CONVENIENCE DUPLEX ELECTRICAL RECEPTACLE AT 4'-2"-AFF.

E-1 120-V, 1-PH SERVICE, 5 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 1, WALK-IN COOLER, AT 9'-0"-AFF. E.C TO INTERCONNECT TO LIGHTS AND TEMPERATURE ALARM.

E-2 120-V, 1-PH SERVICE, 4.0 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 2, EVAP. COIL - COOLER, AT 8'-6"-AFF.

E-4 120-V, 1-PH SERVICE, 5 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 4, WALK-IN COOLER, AT 9'-0"-AFF. E.C TO INTERCONNECT TO LIGHTS AND TEMPERATURE ALARM.

E-5 120-V, 1-PH SERVICE, 4.0 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 5, EVAP. COIL - COOLER, AT 8'-6"-AFF.

E-7 208-V, 1-PH SERVICE, 8.7 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 7, WALK-IN-FREEZER, AT 9'-0"-AFF. E.C TO INTERCONNECT TO LIGHTS, DOOR HEATER, AND TEMPERATURE ALARM.

E-8 208-V, 1-PH SERVICE, 2.2 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 8, EVAP. COIL - HEAT TAPE, AT 8'-6"-AFF.

E-8b E.C. TO INTERCONNECT EVAPORATOR COIL TO ITEM 17, REMOTE REFRIGERATION SYSTEM.

E-9 120-V, 1-PH SERVICE, 15 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 9, BEER SYSTEM, AT 10'-0"-AFF.

E-9c 120-V, 1-PH SERVICE, 14.6 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 9, BEER SYSTEM AIR COMPRESSOR, AT 10'-0"-AFF.

E-13 120-V, 1-PH SERVICE, 5' FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 13, WALK-IN COOLER, AT 9'-0"-AFF.E.C TO INTERCONNECT TO LIGHTS AND TEMPERATURE ALARM.

E-14 120-V, 1-PH SERVICE, 6.0 FL AMPS, STUB FROM CEILING AND CONNECT AT ITEM 14, EVAP. COIL - COOLER, AT 8'-6"-AFF

E-17 208/230-V, 3-PH SERVICE, 42.0 FL AMPS, STUB UP 4"-AFF AND CONNECT AT ITEM 17, REMOTE REFRIGERATION SYSTEM, AT 3'-0"-AFF.

E-21 120-V, 1-PH SERVICE, 1/2-HP, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 21, FOOD CUTTER, AT 3'-2"-AFF.

E-24 120-V, 1-PH SERVICE, 1/3-HP, ELECTRICAL OUTLET AT 2'-6"-AFF FOR SERVICE TO ITEM 24, SLICER, AT 2'-10"-AFF.

E-26 120-V, 1-PH SERVICE, 1/3-HP, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 26, MIXER, 20-QUART, AT 4'-9"-AFF.

E-32 208-V, 3-PH SERVICE, 5.8 FL AMPS, STUB OUT WALL, AT 4'-2"-AFF FOR SERVICE TO ITEM 32, MIXER, 60-QUART, AT 4'-0"-AFF.

E-33 120-V, 1-PH SERVICE, 0.6-KW, STUB DOWN FROM ABOVE AND CONNECT TO ITEM 33, EXHAUST HOOD (FOR LIGHTS), AT 9'-0"-AFF.

E-34 480-V, 3-PH, 30-KW, STUB OUT WALL AT 1'-0"-AFF AND CONNECT AT ITEM 34, BOOSTER HEATER, AT 1'-0"-AFF

E-35 120-V, 1-PH SERVICE, 6 FL AMPS, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 35, CONVECTION OVEN, AT 4'-10"-AFF.

E-35b 120-V, 1-PH SERVICE, 6 FL AMPS, ELECTRICAL OUTLET AT 2'-0"-AFF FOR SERVICE TO ITEM 35, CONVECTION OVEN, AT 2'-6"-AFF.

E-36 220-V, 3-PH SERVICE, 21-KW, ELECTRICAL OUTLET AT '-__"-AFF FOR SERVICE TO ITEM 36, ROTARY OVEN, AT '-__"-AFF (VERIFY)

E-40 120-V, 1-PH SERVICE, 6 FL AMPS, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 35, CONVECTION OVEN, AT 4'-10"-AFF.

E-40b 120-V, 1-PH SERVICE, 6 FL AMPS, ELECTRICAL OUTLET AT 2'-0"-AFF FOR SERVICE TO ITEM 35, CONVECTION OVEN, AT 2'-6"-AFF.

E-45 120-V, 1-PH SERVICE, 3 FL AMPS, STUB OUT WALL AT 1'-4"-AFF FOR SERVICE TO ITEM 45, FRYER, AT 1'-4"-AFF.

E-46 120-V, 1-PH SERVICE, 3 FL AMPS, STUB OUT WALL AT 1'-4"-AFF FOR SERVICE TO ITEM 45, FRYER (EXISTING), AT 1'-4"-AFF.

E-47 120-V, 1-PH SERVICE, 0.6-KW, STUB DOWN FROM ABOVE AND CONNECT TO ITEM 47, EXHAUST HOOD (FOR LIGHTS), AT 9'-0"-AFF.

E-48 120-V, 1-PH SERVICE, 0.8-KW, STUB DOWN FROM ABOVE AND CONNECT TO ITEM 48, EXHAUST HOOD (FOR LIGHTS), AT 9'-0"-AFF.

E-49 120-V, 1-PH SERVICE, 10 FL AMPS, ELECTRICAL OUTLET AT 1'-3"-AFF AND CONNECT AT ITEM 49, TILT KETTLE, 40 GAL., AT 1'-7"-AFF.

E-50 120-V, 1-PH SERVICE, 2 FL AMPS, ELECTRICAL OUTLET AT 1'-0"-AFF FOR SERVICE TO ITEM 50, TILT SKILLET, 40 GAL., AT 1'-6"-AFF.

E-53 120-V, 1-PH SERVICE, 1.0-KW, ELECTRICAL OUTLET AT 1'-2"-AFF FOR SERVICE TO ITEM 53, CONVECTION STEAMER, AT 3'-0"-AFF.

E-57 208-V, 1-PH SERVICE, 5.1-KW, ELECTRICAL PEDESTAL OUTLET FOR SERVICE TO ITEM 57, BAIN MARIE, DROP-IN, AT 2'-0"-AFF.

E-61 120-V, 1-PH SERVICE, 1.6-KW, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 61, BANQUET CART, AT 4'-0"-AFF.

E-62 208-V, 1-PH SERVICE, 6-KW, ELECTRICAL OUTLET AT 4'-0"-AFF, FOR SERVICE TO ITEM 62, SLOW COOK OVEN, AT 6'-1"-AFF.

E-66 480-V, 3-PH SERVICE, 11 FL AMPS (VERIFY), ELECTRICAL OUTLET AT 5'-0"-AFF FOR SERVICE TO ITEM 66, DISHWASHER, AT 5'-6"-AFF.

E-68 208-V, 3-PH SERVICE, 3-HP, ELECTRICAL OUTLET AT 1'-2"-AFF FOR SERVICE TO ITEM 68, DISPOSER, AT 1'-0"-AFF.

E-71 120-V, 1-PH SERVICE, 1.6-KW, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 61, BANQUET CART, AT 4'-0"-AFF.

E-72 120/208-V, 1-PH SERVICE, 31 FL AMPS (VERIFY), ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 72, COFFEE URN, AT 3'-6"-AFF.

E-75 120-V, 1-PH SERVICE, 6.7 FL AMPS, ELECTRICAL OUTLET AT 6'-9"-AFF FOR SERVICE TO ITEM 75, REFRIGERATOR, 2-SECTION, AT 6'-1"-AFF.

E-76 120-V, 1-PH SERVICE, 1.5-KW, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 76, NACHO CHIP WARMER, AT 3'-6"-AFF.

E-77 120-V, 1-PH SERVICE, 2.3-KW, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 77, PRETZEL DISPLAY/WARMER, AT 3'-6"-AFF.

E-79 120-V, 1-PH SERVICE, 30 AMP CIRCUIT (VERIFY), STUB OUT WALL AT 4'-2"-AFF FOR SERVICE TO ITEM 79, ICE MACHINE W/BIN, AT 4'-6"-AFF.

E-80 208-v, 1-PH SERVICE, 19 FL AMPS, STUB OUT WALL AT 4'-2"-AFF FOR SERVICE TO ITEM 80, ICE MACHINE W/BIN, AT 4'-6"-AFF.

E-81 120-V, 1-PH SERVICE, 13 FL AMPS, ELECTRICAL OUTLET, AT 4'-2"-AFF FOR SERVICE TO ITEM 81, HOT DOG GRILL, AT 4'-6"-AFF.

E-81b 120-V, 1-PH SERVICE, 7 FL AMPS, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 81, HOT DOG GRILL, AT 4'-6"-AFF.

E-82 120-V, 1-PH SERVICE, 2 FL AMPS, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 82, COUNTERTOP REFRIGERATOR, AT 3'-0"-AFF.

E-83 120-V, 1-PH SERVICE, 5 FL AMPS, ELECTRICAL OUTLET AT 1'-4"-AFF FOR SERVICE TO ITEM 83, P.O.S. STATION, AT 2'-10"-AFF.

E-83b E.C. TO PROVIDE EMPTY JUNCTION BOX AND CONDUIT FOR COMPUTER DATA OUTLET AND CABLING.

E-84 120-V, 1-PH SERVICE, 5 FL AMPS, ELECTRICAL OUTLET AT 1'-2"-AFF FOR SERVICE TO ITEM 84, SODA/ICE DISPENSER, AT 1'-0"-AFF.

E-85 208-V, 1-PH SERVICE, 3.8-KW (VERIFY), ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 85, COFFEE BREWER, AT 3'-6"-AFF.

E-86 120-V, 1-PH SERVICE, 1.78-KW, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 86, ICED TEA BREWER, AT 3'-6"-AFF.

E-89 120-V, 1-PH SERVICE, 1.2-KW, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 89, POPCORN POPPER, AT 3'-6"-AFF.

E-90 120-V, 1-PH SERVICE, 0.6-KW, ELECTRICAL OUTLET AT 4'-2"-AFF FOR SERVICE TO ITEM 90, NACHO CHEESE DISPENSER, AT 3'-6"-AFF

E-93 120-V, 1-PH, 15 AMP ELECTRICAL OUTLET AT 1'-2"-AFF, FOR SERVICE TO ITEM 93, SODA SYSTEM AT 1'-2"-AFF.

E-93b 120-V, 1-PH, 15 AMP ELECTRICAL OUTLET AT 1'-2"-AFF, FOR SERVICE TO ITEM 93, SODA SYSTEM AT 1'-2"-AFF.

E-94 120-V, 1-PH SERVICE, 15 FL AMPS, STUB DOWN FROM CEILING AND CONNECT AT ITEM 94, FIRE PROTECTION SYSTEM, AT 9'-0"-AFF. E.C. TO INTERMIRE CONTROLS WITH ITEMS 47 & 48, EXHAUST HOODS.

ELECTRICAL ROUGH-IN PLAN NOTES

THE INFORMATION CONTAINED ON THIS DRAWING IS FOR REFERENCE ONLY AND IS NOT FOR CONSTRUCTION. ARCHITECT, ENGINEER AND CONTRACTORS SHALL VERIFY LOCATION OF ROUGH-INS AND SERVICE REQUIREMENTS WITH FIELD DIMENSIONS AND CONDITIONS. COORDINATE INSTALLATION REQUIREMENTS OF FOOD/BEVERAGE SERVICE EQUIPMENT WITH KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) EQUIPMENT DESIGNATIONS ON PLAN BY NOTE NUMBER IS LISTED AS "NOT" ON FOODSERVICE CONSULTANTS CONTRACT.

1. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLTS, 3 PHASE, 4 WIRE, 60 HERTZ.
2. ALL ROUGH-INS AND CONNECTIONS SHOWN RELATE TO FOODSERVICE EQUIPMENT AND FIXTURES ONLY. SEE ARCHITECTURAL/ENGINEERING PLANS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.
3. THIS ELECTRICAL PLAN IS INTENDED TO SHOW OUTLET TYPES, LOCATIONS, AND CONNECTION POSITIONS AND LOADS. FOR FINAL ROUGH-IN LOCATIONS, SEE E.C.C. DIMENSIONED PLANS. DIMENSIONS, WHEN SHOWN, ARE FROM COLUMN CENTERS, FINISHED FLOORS, AND FINISHED WALLS.
4. ALL ELECTRICAL WORK FOR FABRICATED FOODSERVICE EQUIPMENT AND FIXTURES SHALL BE COMPLETELY PRE-WIRED BY THE K.E.C. TO A JUNCTION-BOX OR PIGTAIL-BOX MOUNTED ON THE EQUIPMENT IN AN ACCESSIBLE POSITION. FINAL CONNECTIONS TO THE FOODSERVICE FIXTURES AND EQUIPMENT JUNCTION BOXES OR PULL BOXES, AND ALL ELECTRICAL WORK FROM PANEL BOXES SHALL BE BY THE ELECTRICAL CONTRACTOR
5. FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT AND FIXTURES SHALL BE BY THE ELECTRICAL CONTRACTOR, INCLUDING ALL LABOR AND MATERIALS.
6. ROUGH-IN/CONNECTION HEIGHTS NOTED IN THE ELECTRICAL CONNECTION SCHEDULE ARE ABOVE FINISHED FLOOR(A.F.F.) TO THE CENTER OF THE OUTLET. ALL OUTLETS SHALL BE MOUNTED HORIZONTALLY.
7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
   A. ALL JUNCTION BOXES, ELECTRICAL OUTLETS, CORNER PLATES, SWITCHES, ETC. NOT BUILT INTO THE EQUIPMENT AND FIXTURES. ALL OUTLETS JUNCTION BOXES, COVER PLATES, ETC., IN DISHROOMS AND OTHER HIGH MOISTURE AREAS, OR AS INDICATED IN SCHEDULES, SHALL BE VAPOR PROOF.
   B. SHUNT TRIP CIRCUIT BREAKERS OR DISCONNECTS FOR FIRE PROTECTION SYSTEM, SHUT-OFF OF ALL FOODSERVICE EQUIPMENT. ELECTRICAL CIRCUITS LOCATED BENEATH EXHAUST HOODS AS REQUIRED BY N.F.P.A. AND APPLICABLE CODES.
   C. DISCONNECTS OR OTHER DEVICES AS REQUIRED BY LOCAL CODES.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING, INSTALL ELECTRICAL COMPONENTS (PROVIDED BY K.E.C.) AND INTERWIRE BETWEEN THE FOLLOWING:
   A. REMOTE REFRIGERATION EQUIPMENT AND EVAPORATOR COILS
   B. CONTROL PANELS TO WATER WASH EXHAUST HOODS AND EXHAUST/SUPPLY FAN MAGNETIC STARTERS PER MANUFACTURER'S INSTRUCTION.
   C. FOODSERVICE EXHAUST HOODS TO FIRE PROTECTION SYSTEM AND SHUT-OFFS.
   D. DISPOSALS, SOLENOID VALVES, AND CONTROL PANELS.
   E. ALL INTERCONNECTIONS OF FOODSERVICE EQUIPMENT AND FIXTURES DELIVERED TO THE JOB SITE AS SECTIONS.
   F. ASSEMBLE AND CONNECT ALL LAMPS FURNISHED BY THE K.E.C. AS PART OF THE UTILITY DISTRIBUTION SYSTEM(S) TO FOODSERVICE ITEMS OF EQUIPMENT.
   G. ALL OTHER FOODSERVICE EQUIPMENT AND FIXTURES ITEMS WITH COMPONENTS SHIPPED LOOSE BY THE MANUFACTURER OR E.C.C.
9. WALK-IN COOLERS/FREEZERS:
   A. LIGHTS, INCLUDING VAPOR-TIGHT LIGHTS, THERMOSTATIC TEMPERATURE ALARMS, FREEZER DOOR SWITCHES, DOOR FRAME HEATERS, DRIPTRAY HEATED RELIEF PORTS, DOOR HEATERS, DOOR SWITCHES, FURNISHED BY K.E.C. - INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR. ALL CONDUIT AND WIRING FROM THE TOP OF THE WALL.
   B. DISCONNECTS, SWITCHES AT EVAPORATOR COILS AND AN ADJACENT VAPOR-PROOF CONVENIENCE OUTLETS AND DRAIN LINE HEAT TAPE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
   C. INTERCONNECTIONS OF ELECTRICAL COMPONENTS OF ALL WALK-IN COOLERS/FREEZERS AND COMPRESSORS BY ELECTRICAL CONTRACTOR.
10. CONVENIENCE OUTLETS SHOWN ARE FOR FOODSERVICE EQUIPMENT AND FIXTURES OPERATION. ADDITIONAL AREA CONVENIENCE OUTLETS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS LOCATED ON THE ELECTRICAL ENGINEERING PLANS.

SINK COMBS DETHLEFS

WC&A

KEY PLAN

Issues/Revisions	Date
100% DD	12-8-08
PROGRESS SET #1	02-6-09
100% CONSTRUCTION DOCUMENTS	08-14-09
FINAL CONSTRUCTION SET	04-26-09

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, CO

SCD Project No: 6824

FOODSERVICE ELECTRICAL PLAN

Drawn by: PNK
Checked by: SWC

FS1.4

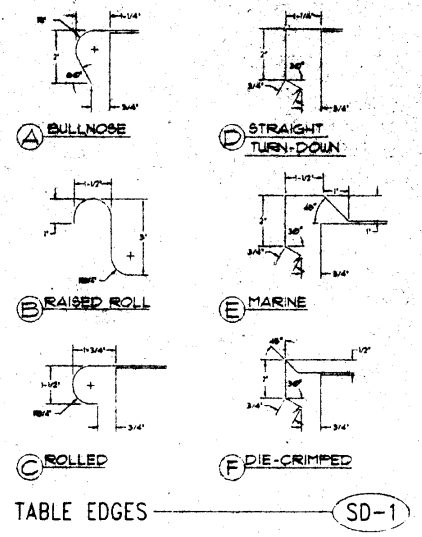
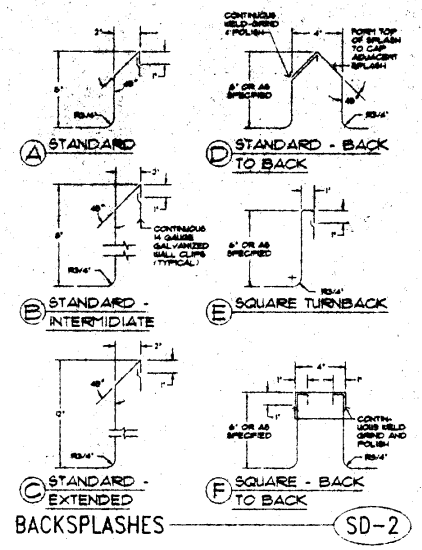
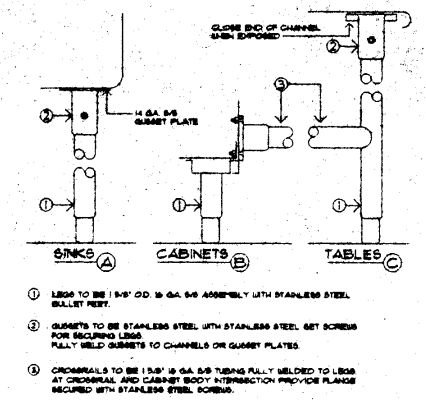


TABLE EDGES — SD-1



BACKSPLASHES — SD-2

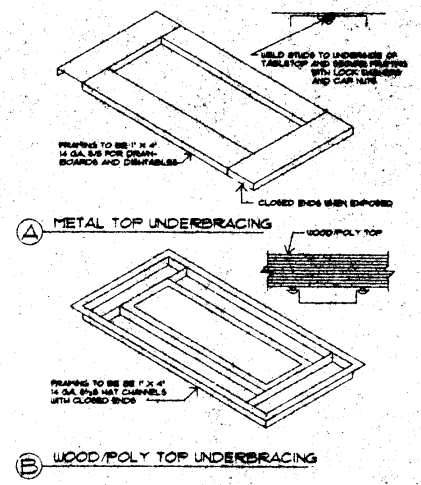


① LEGS TO BE 1 5/8" O.D. 18 GA. S/S ASSEMBLY WITH STAINLESS STEEL BULLET FEET.

② GUSSETS TO BE STAINLESS STEEL WITH STAINLESS STEEL SET SCREWS FOR SECURING LEGS. FULLY WELD GUSSETS TO CHANNELS OR GUSSET PLATES.

③ CROSSRAILS TO BE 1 5/8" 18 GA. S/S TUBING FULLY WELDED TO LEGS AT CROSSRAIL AND CABINET BODY INTERSECTION PROVIDE FLANGE SECURED WITH STAINLESS STEEL SCREWS.

LEGS — SD-3



UNDERBRACING — SD-4

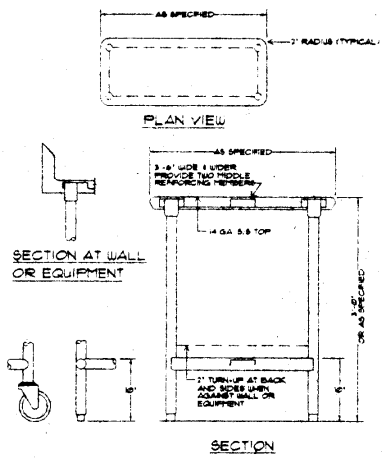


TABLE — SD-11

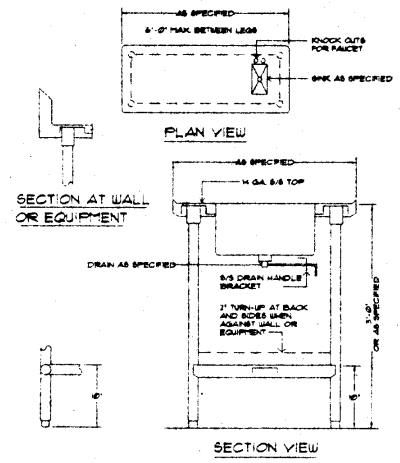
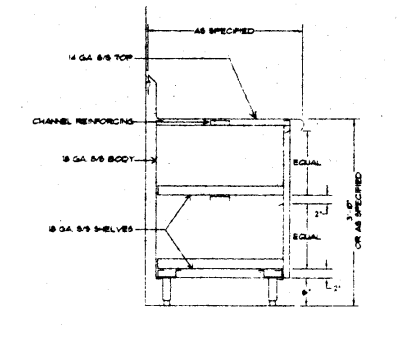
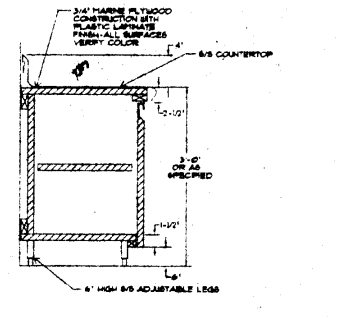


TABLE WITH SINK — SD-12

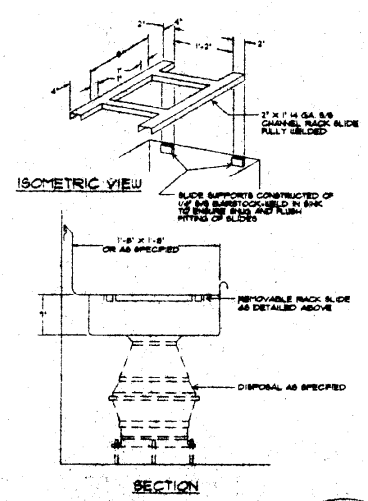


COUNTER — SD-21

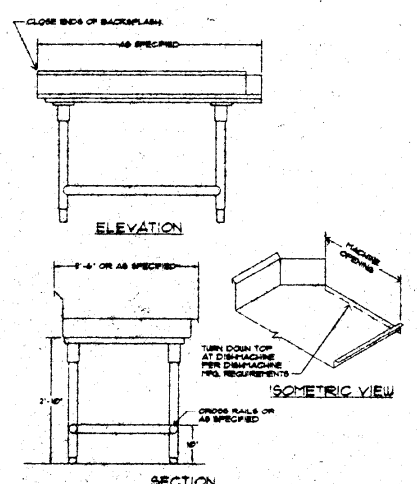


NOTES:
1. 3/4" MARINE PLYWOOD CONSTRUCTION W/BLOCKING AS REQUIRED.
2. ALL SURFACES TO BE PLASTIC LAMINATED VERIFY COLOR.

COUNTER — SD-24



PRE-RINSE SINK — SD-43



SOILED DISHTABLE — SD-51

SINK COMBS DETHLEFS
WC&A

KEY PLAN

Issues/Revisions	Date
100% DD	12-15-00
PROGRESS SET #1	02-15-01
100% CONSTRUCTION DOCUMENTS	03-14-01
FINAL CONSTRUCTION SET	04-26-01

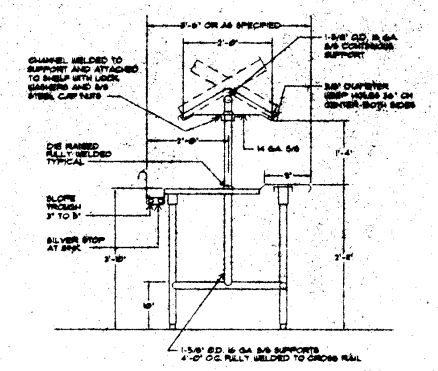
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, CO

SCD Project No.: 9924

FOODSERVICE DETAILS

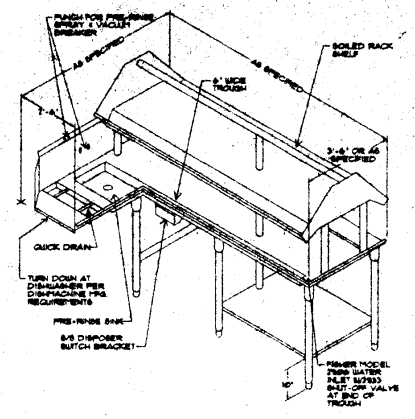
Drawn by: PMR
Checked by: SMC

FS2.1



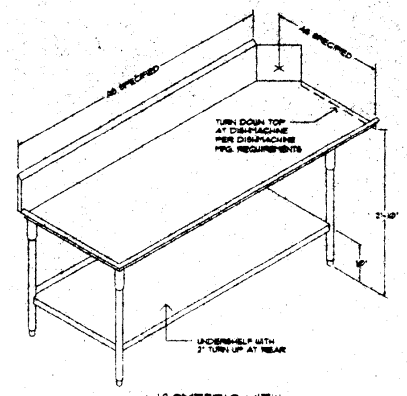
SECTION

SOILED DISHTABLE/ RACK SHELF — SD-52



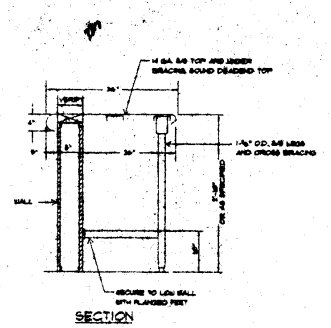
ISOMETRIC VIEW

SOILED DISHTABLE — SD-53



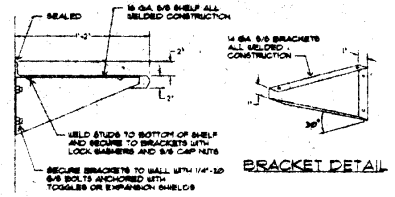
ISOMETRIC VIEW

CLEAN DISHTABLE — SD-54



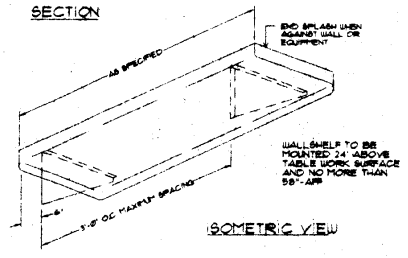
SECTION

COUNTER — SD-58



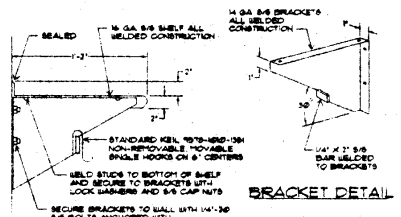
BRACKET DETAIL

SECTION



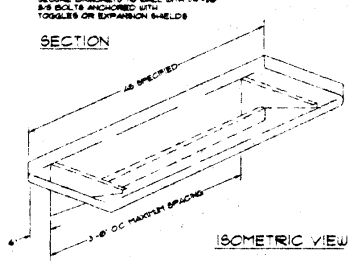
ISOMETRIC VIEW

WALL SHELF — SD-61



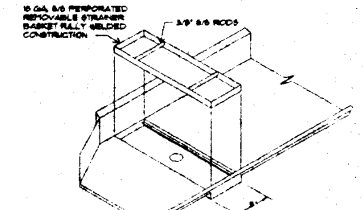
BRACKET DETAIL

SECTION

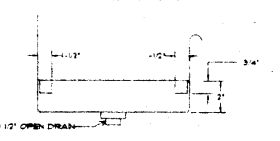


ISOMETRIC VIEW

WALL SHELF W/UTENSIL RACK — SD-66

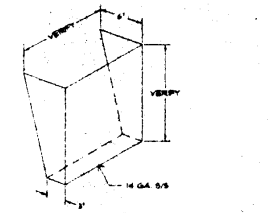


ISOMETRIC VIEW

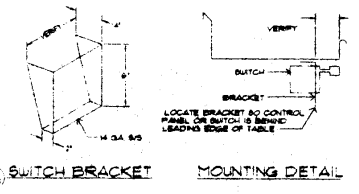


SECTION VIEW

DISHTABLE QUICK DRAIN — SD-92

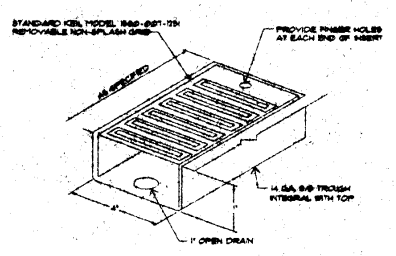


CONTROL PANEL BRACKET



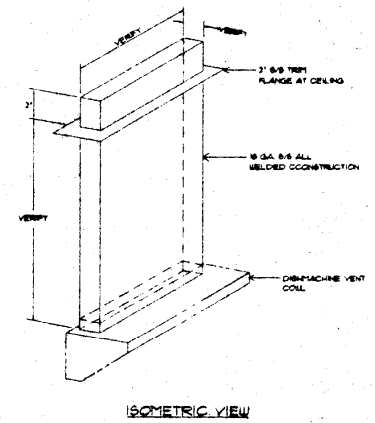
SWITCH BRACKET MOUNTING DETAIL

SWITCH BRACKET — SD-93



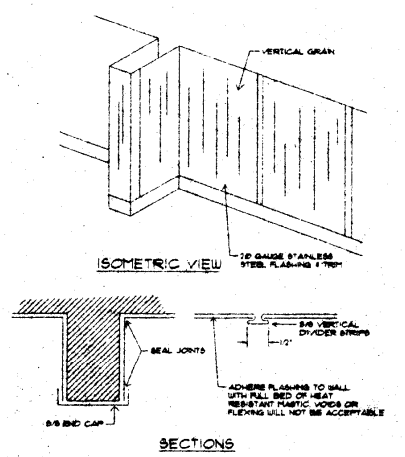
ISOMETRIC VIEW

DRIP TROUGH — SD-95



ISOMETRIC VIEW

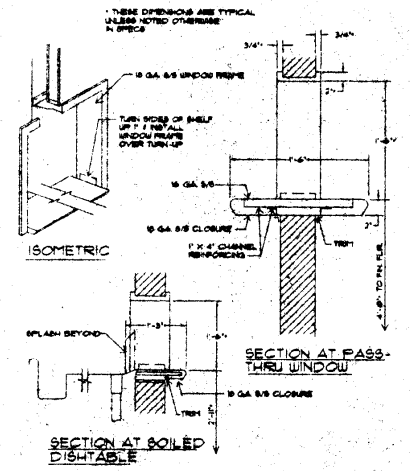
EXHAUST VENT — SD-141



ISOMETRIC VIEW

SECTIONS

WALL FLASHING — SD-144



ISOMETRIC

SECTION AT PASS-THRU WINDOW

SECTION AT BOILED DISHTABLE

PASS-THRU SILL & FRAME — SD-146

SINK COMBS DETHLEFS

WC&A
WILLIAMS CARLSEN & ASSOCIATES, INC.
ARCHITECTURE AND PLANNING TO THE FOOD SERVICE/HOSPITALITY INDUSTRY

DENVER
1777 STOUT STREET, SUITE 600
DENVER, CO 80202
303-595-1600
303-595-1605 FAX

KEY PLAN

Issues/Revisions:	Date:
100% DD	12-15-00
PROGRESS SET #1	02-16-01
100% CONSTRUCTION DOCUMENTS	03-14-01
FINAL CONSTRUCTION SET	04-20-01

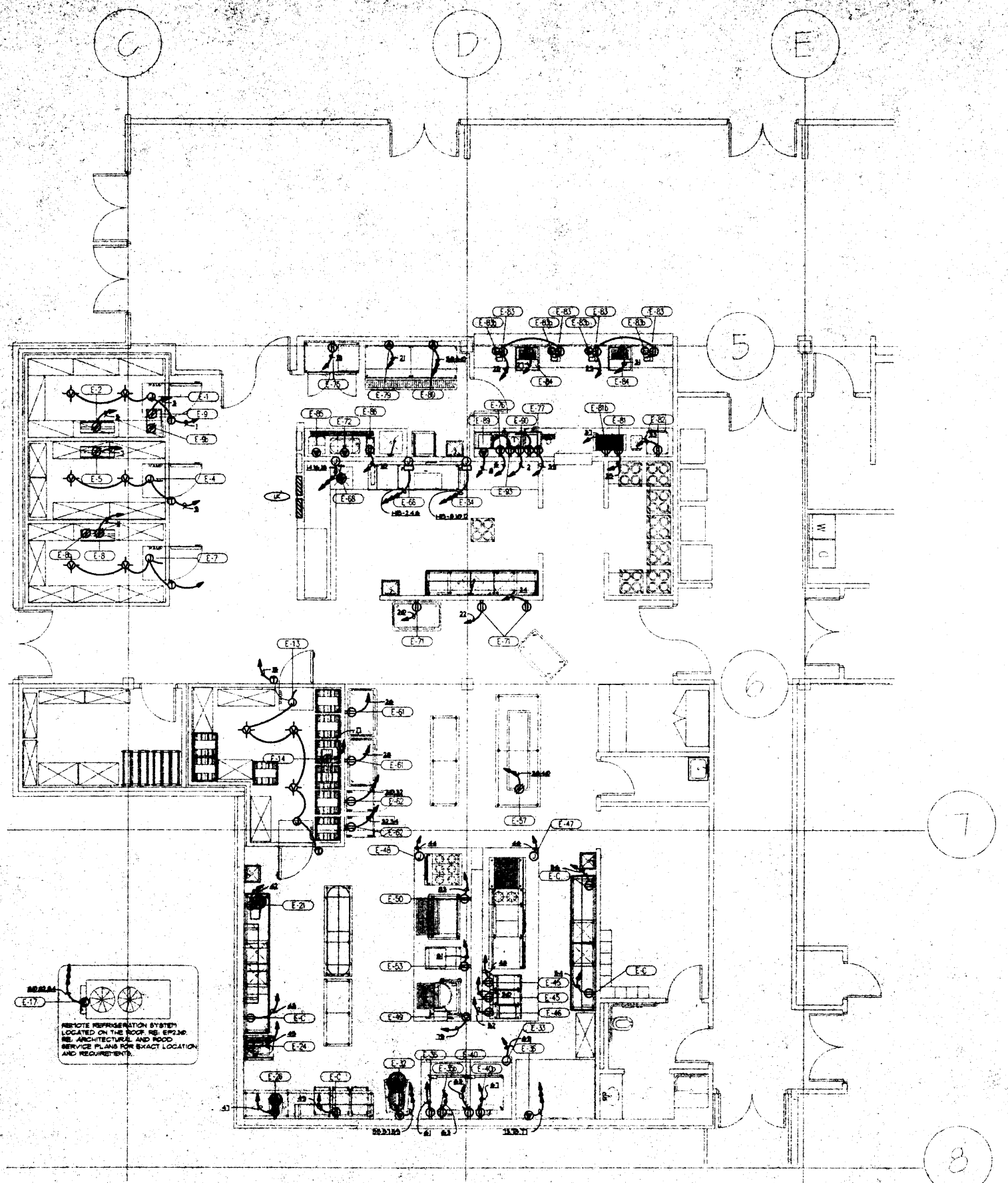
TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, CO

SCD Project No.: 9924

FOODSERVICE DETAILS

Drawn by: PNR
Checked by: SBC

FS3.1



A KITCHEN/CONCESSION POWER PLAN

SCALE: 1/4" = 1'-0"

Kitchen Concession

KEY	DESCRIPTION	HP	KW	FLA	VOLTAGE	NEMA RECEPTACLE TYPE	BRANCH CIRCUIT WIRE/CKT SIZE UNLESS OTHERWISE SPECIFIED
E-C	CONVENIENCE OUTLETS			20.0	120	5-20R	3#12, #12G
E-1	WALK-IN COOLER LIGHTS			5.0	120	5-20R	2#12, #12G
E-2	EVAPORATOR COIL			7.5	120	5-20R	2#12, #12G
E-4	WALK-IN COOLER LIGHTS			5.0	120	5-20R	2#12, #12G
E-5	EVAPORATOR COIL			7.5	120	5-20R	2#12,#12G
E-7	WALK-IN FREEZER LIGHTS			5.0	120	5-20R	2#12, #12G
E-8	HEAT TAPE			1.0	120	5-20R	2#12,#12G
E-8b	EVAP. COIL (TO REFRIG. RACK)						
E-9	BEER SYSTEM			13.0	120	5-20R	2#12, #12G
E-9b	BEER SYS. AIR COMP.			14.0	120	5-20R	2#12, #12G
E-13	WALK-IN COOLER LIGHTS			5.0	120	5-20R	2#12, #12G
E-14	EVAPORATOR COIL			7.5	120	5-20R	2#12, #12G
E-17	REFRIGERATION SYSTEM	7 1/2			208/3	HW	3#8, #8G, 1"C.
E-21	FOOD CUTTER	1/2			120	5-20R	2#12, #12G
E-24	SLICER	1/3			120	5-20R	2#12, #12G
E-26	20 QT. MIXER	1/3			120	5-20R	2#12, #12G
E-32	60 QT. MIXER			9.6	208/3	HW	3#12, #12G
E-33	HOOD LIGHTS		0.6	5.0	120	HW	2#12, #12G
E-34	BOOSTER HEATER		36.0		480/3	HW (NOTE 1)	3#6, #8G,1"C
E-35	CONVECTION OVEN			6.0	120	5-20R	2#12, #12G
E-35b	CONVECTION OVEN			6.0	120	5-20R	2#12, #12G
E-36	ROTARY OVEN		21.0		208/3	HW	3#10, #8G, 1-1/4"C
E-40	CONVECTION OVEN			6.0	120	5-20R	2#12, #12G
E-40b	CONVECTION OVEN			6.0	120	5-20R	2#12, #12G
E-45	FRYER			3.0	120	5-20R	2#12, #12G (NOTE 2)
E-46	FRYER			3.0	120	5-20R	2#12, #12G (NOTE 2)
E-47	HOOD LIGHTS		0.6	5.0	120	5-20R	2#12, #12G
E-48	HOOD LIGHTS		0.6	5.0	120	5-20R	2#12, #12G
E-49	TILT KETTLE			16.0	120	5-20R	2#12, #12G (NOTE 2)
E-50	TILT SKILLET			3.0	120	5-20R	2#12, #12G (NOTE 2)
E-53	CONVECTION STEAMER		1.0		120	5-20R	2#12, #12G (NOTE 2)
E-57	BAIN MARIE		5.1	24.0	208/1	VERIFY	2#8, #8G
E-61	BANQUET CART		1.5	13.3	120	5-20R	2#12, #12G
E-62	SLOW COOK OVEN		6.0	30.0	208/1	VERIFY	2#8, #8G
E-66	DISHWASHER			11.0	480/3	HW (NOTE 1)	3#12, #12G
E-68	DISPOSER	3		11.0	208/3	HW	3#12, #12G
E-71	BANQUET CART		1.5	13.3	120	5-20R	2#12, #12G
S-72	COFFEE URN						
E-75	REFRIGERATOR			6.7	120	5-20R	2#12, #12G
E-76	NACHO CHIP WARMER		1.5	12.5	120	5-20R	2#12, #12G
E-77	PRETZEL DISPLAY		2.3	19.2	120	5-20R	2#10, #12G
E-78	ICE MACHINE						
E-80	ICE MACHINE			15.0	208/1	VERIFY	2#10, #12G
E-81	HOT DOG GRILL			3.0	120	5-20R	2#12, #12G
E-81b	BUN WARMER			1.0	120	5-20R	2#12, #12G
E-82	COUNTERTOP REFRIGERATOR			7.0	120	5-20R	2#12, #12G
E-83	P.O.S.			5.0	120	5-20R	2#12, #12G
E-84	SODA/ICE DISPENSER			5.0	120	5-20R	2#12, #12G
E-88	COFFEE BREWER						
E-86	ICED TEA BREWER		1.5	9.0	120	5-20R	2#12,#12G
E-88	POPCORN POPPER		1.2	10.0	120	5-20R	2#12, #12G
E-90	NACHO CHEESE DISPENSER		0.6	5.0	120	5-20R	2#12, #12G
E-93	UNDERCOUNTER SODA SYSTEM			5.0	120	5-20R	2#12, #12G

SCHEDULE NOTES:

1. COORDINATE DISCONNECT LOCATION WITH THE FOOD SERVICE EQUIPMENT CONTRACTOR.
2. PROVIDE RELAY ABOVE CEILING FOR CONTROL OF ELECTRICAL CIRCUITS TO EQUIPMENT UNDER HOOD. CONTRACTOR SHALL OPEN UPON RELEASE OF HOOD FIRE SUPPRESSION SYSTEM.

GENERAL NOTES:

1. REFERENCE DRAWING FSK1 FOR ADDITIONAL FOOD SERVICE ELECTRICAL CONNECTION REQUIREMENTS AND EXACT DEVICE LOCATIONS.

SINK, COMBS DETHLEFS

Architecture Engineering Interiors
303.572.0200 Fax 303.572.0520
1400 16th Street Denver, Colorado 80202

KEY PLAN

Issues/Submissions	Date
SCDD DESIGN DEVELOPMENT	07-17-09
50% CONSTRUCTION DOCUMENTS	09-04-09
CONSTRUCTION DOCUMENTS	09-18-09

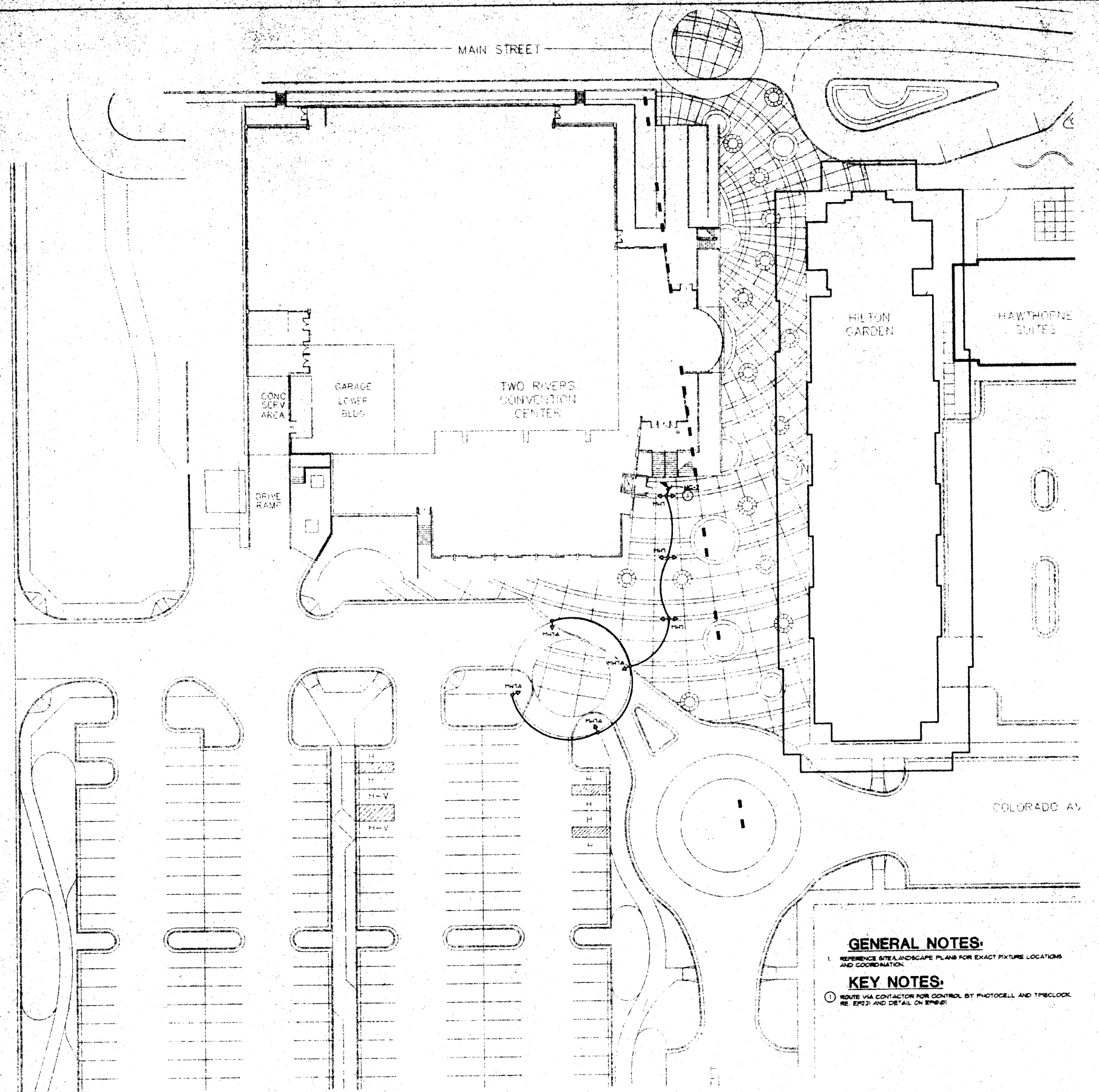
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, CO

SCD Project No.: 4924

MAIN LEVEL - KITCHEN/CONCESSION ELECTRICAL PLAN

Drawn by: - BRB
Checked by: RTS

EFS1.10



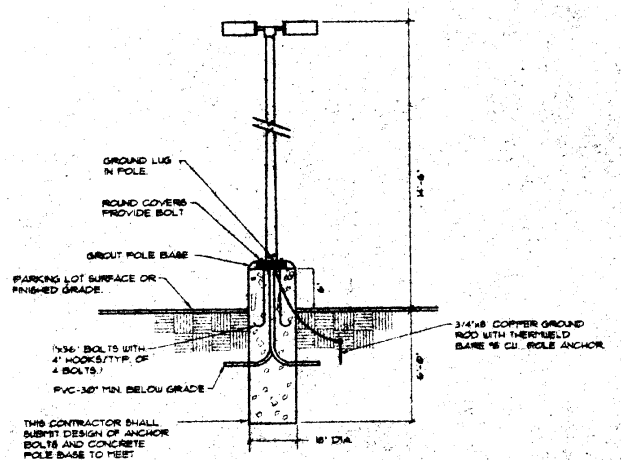
A SITE LIGHTING PLAN
SCALE: 1" = 20'-0"

GENERAL NOTES:

1. REFERENCE SITE/LANDSCAPE PLANS FOR EXACT FIXTURE LOCATIONS AND COORDINATION.

KEY NOTES:

(1) ROUTE VIA CONTACTOR FOR CONTROL BY PHOTOCELL AND TIMECLOCK. RE: EP5.21 AND DETAIL ON EP6.21



B LIGHT POLE DETAIL (FIXTURE "MH7 AND MH7A")
SCALE: NONE

SINK COMBS DETHLEFS

Issues/Revisions:	Date:
100% DESIGN DEVELOPMENT	12-15-09
75% CONSTRUCTION DOCUMENTS	2-12-10
CONSTRUCTION DOCUMENTS	3-19-10
FINAL CONSTRUCTION SET	4-30-10

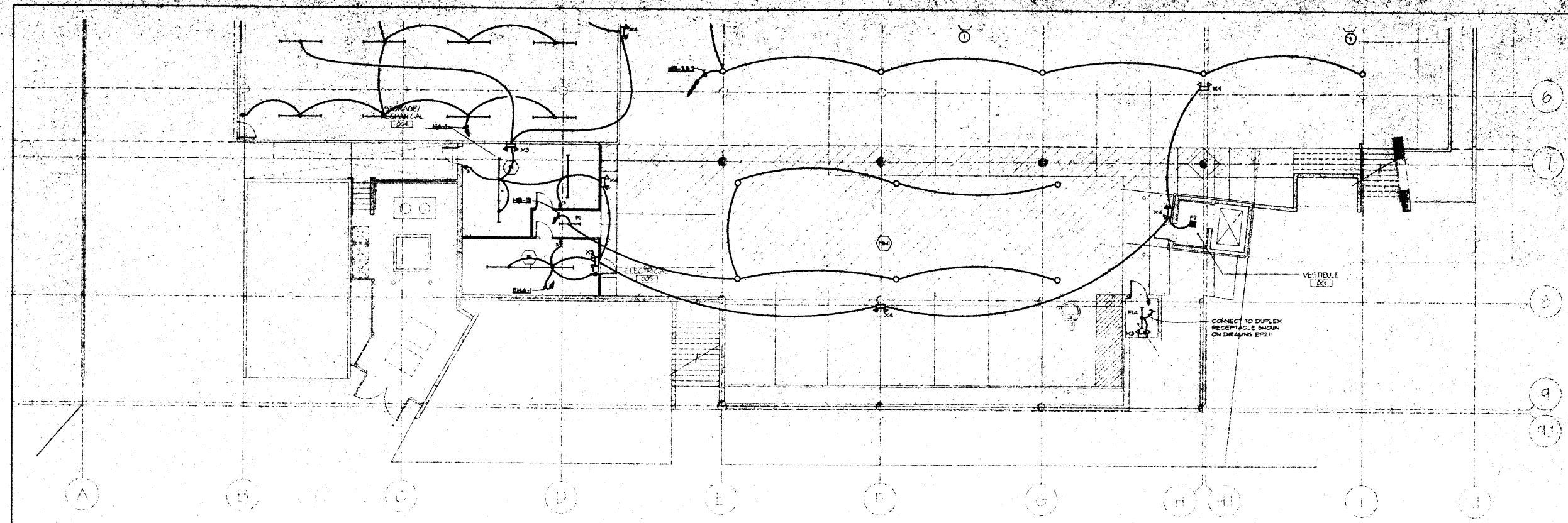
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9824

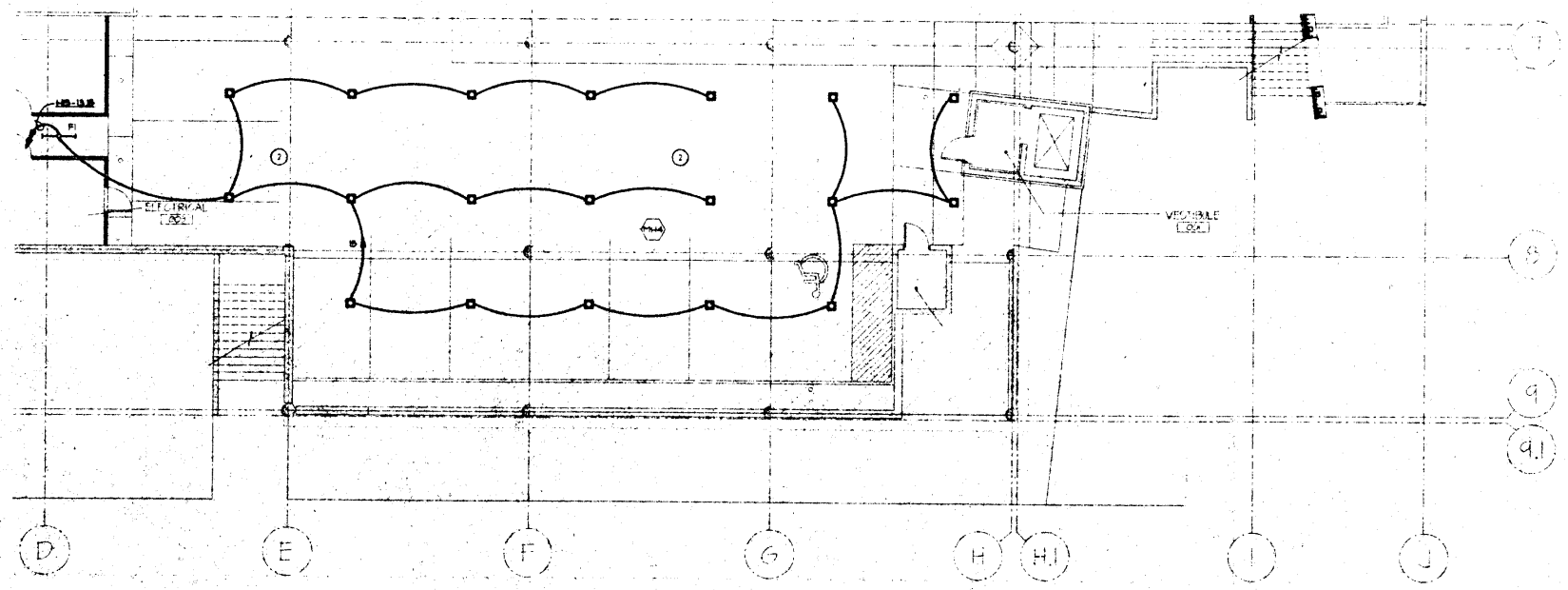
SITE LIGHTING PLAN

Drawn by:
Checked by:

EL1.10



1 ENLARGED PARKING LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



2 ENLARGED ALTERNATE PARKING LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL NEW GARAGE FIXTURES SHALL BE CONTROLLED VIA CONTACTOR FOR PHOTOCELL AND TIME CLOCK OPERATION. RE: EP2.11 FOR LOCATION AND EP6.01 FOR DETAIL

KEY NOTES:

1. BASE BID INCLUDES NO WORK IN PARKING GARAGE. PROVIDE ALTERNATE PRICING TO BE INCLUDED IN PACKAGE III, FOR REMOVING EXISTING GARAGE LIGHTING AND PROVIDING NEW TYPE PM1 LIGHTING AS SHOWN. FIXTURE MOUNTED WITHIN WAFFLE SLAB. LENS TRIM FLUSH WITH BOTTOM OF STRUCTURE. UTILIZE EXISTING CONDUIT AND BOXES IN SLAB TO EACH COLUMN LOCATION FOR BRANCH CIRCUITING, EXTEND SURFACE MOUNTED CONDUIT TO FIXTURE LOCATIONS, AND EXTEND NEW SURFACE MOUNTED HOME-RUNS FROM APPROXIMATE LOCATIONS SHOWN. REMOVE EXISTING HOMERUNS TO PANEL "HA" IN PENTHOUSE.
2. PROVIDE ALTERNATE PRICING TO BE INCLUDED IN PACKAGE IV FOR ALTERNATE LIGHTING LAYOUT.

NORTH

SINK COMBS DETHLEFS

Issues/Revisions	Dates
100% DESIGN DEVELOPMENT	12-19-00
75% CONSTRUCTION DOCUMENTS	3-9-01
CONSTRUCTION DOCUMENTS	3-30-01
FINAL CONSTRUCTION SET	4-24-01

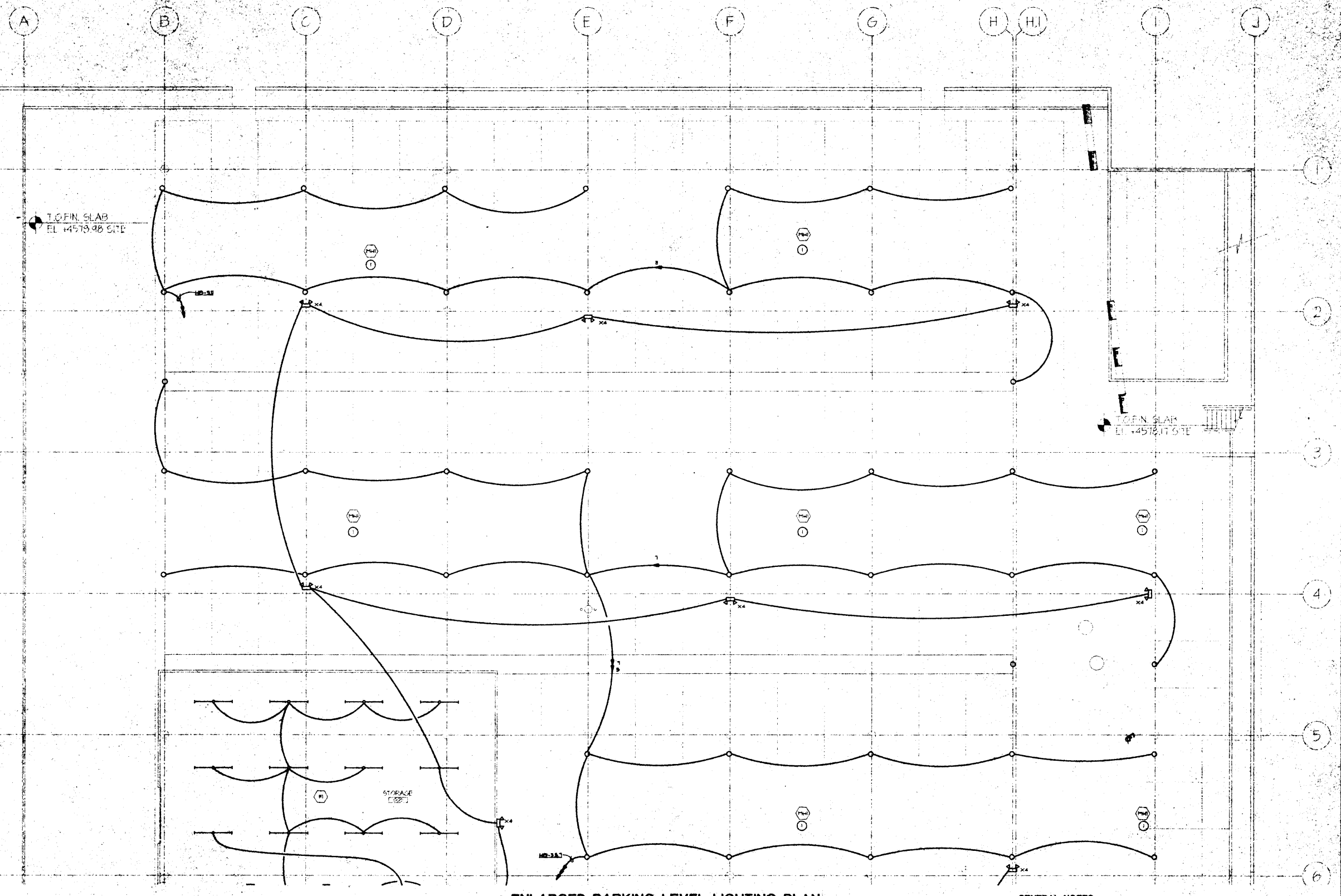
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No. 9924

ENLARGED PARKING LEVEL LIGHTING PLAN

Drawn by: JJR
Checked by: WTB

EL2.11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EL. 4519.98 SITE
T.O.FIN. SLAB
EL. 4518.17 SITE
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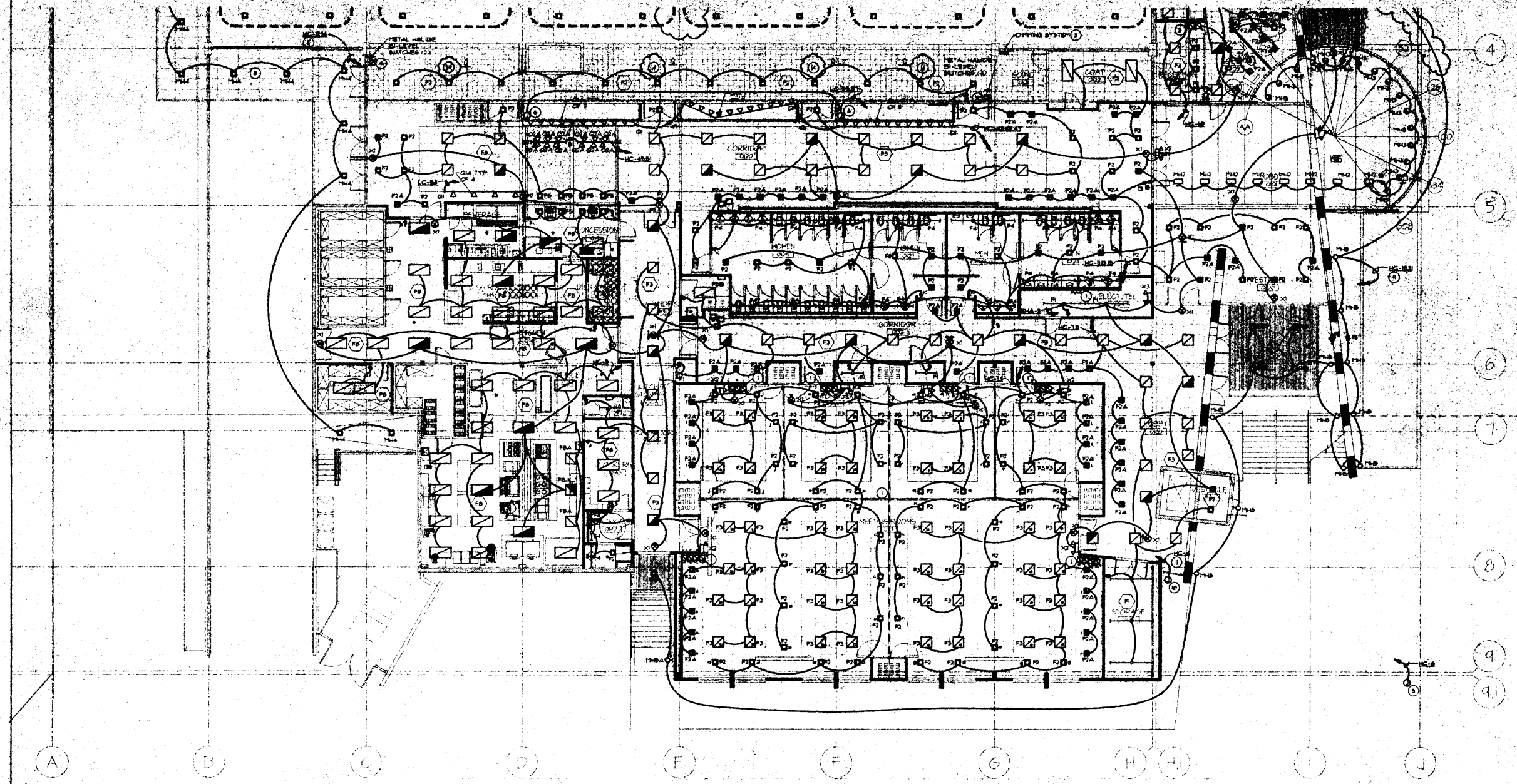


1 ENLARGED PLAZA LEVEL LIGHTING PLAN

SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL EXISTING LIGHTING IN THE EXHIBIT HALL/ SHALL REMAIN ON EXISTING PANEL "HA" IN THE PENTHOUSE. NEW LIGHTING SHALL BE FED FROM PANEL "HC" THIS LEVEL.
2. REMOVE ALL EXISTING LIGHTING SOUTH OF THE EXHIBIT HALL AND EXTERIOR LIGHTING ON THE EAST PLAZA. REMOVE CIRCUITING BACK TO PANELS AND LABEL AS SPARE. COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS FOR EXACT SCOPE.
3. CONTRACTOR SHALL TRACE AND VERIFY EXISTING CIRCUITS TO REMAIN AND TO BE REMOVED IN DEMOLITION SCOPE TO EXISTING PANELS HA AND ELA IN PENTHOUSE AND PANELS LA AND LB THIS LEVEL AND COORDINATE WITH NEW PANEL ASSIGNMENTS.

KEY NOTES:

1. PROVIDE ALTERNATE PRICING AS PART OF PACKAGE II FOR LUTRON GRAFIK EYE 4000 SERIES DIMMING SYSTEM, 24 CIRCUIT, OR APPROVED EQUAL FOR CONTROL OF ALL MEETING ROOM LIGHTING, IN LIEU OF DIMMERS SHOWN. PROVIDE END ENCLOSURE IN HC-L3 FEED DIMMING CABINET IN LIEU OF BRANCH CIRCUITS INDICATED. INCLUDE CONTROL STATIONS AT EACH ENTRY AS SHOWN. EACH ENTRY SHALL BE FOUR ZONE FOUR SCENE TYPE EAST AND WEST ENTRIES SHALL HAVE ADDITIONAL FOUR SCENE MASTER CONTROLLER FOR ENTIRE MEETING SPACE. BASE PRICE SHALL INCLUDE INDIVIDUAL LUTRON 3000DU RATED, FLUORESCENT, SLIDE TYPE (OR APPROVED EQUAL) WALL BOX DIMMERS AS SHOWN.
2. PROVIDE ALTERNATE PRICING AS PART OF PACKAGE II TO REPLACE EXISTING LAMPS AND BALLAST WITH NEW 4000SI EDT1 METAL HALIDE LAMP AND BI-LEVEL ELECTRONIC BALLAST. REPLACE EXISTING KEY SWITCHES WITH NEW BI-LEVEL THREE POSITION SWITCHES BEHIND CLEAR, KEYED LEXAN COVER. E
3. PROVIDE ALTERNATE PRICING AS PART OF PACKAGE II TO REPLACE EXISTING DIMMING CABINET AND CONTROLS AND REPLACE WITH NEW AS INDICATED. CIRCUITS FOR EXISTING QUARTZ DOWNLIGHTS AND STAGE LIGHTING TO BE CONNECTED VIA NEW DIMMING CABINET, LUTRON 4880P SERIES, WITH 48 CIRCUIT GP SERIES CABINET. DOWNLIGHTING TO BE CONTROLLED IN SEVEN ZONES, AS INDICATED BY NEW CIRCUITING SHOWN.
4. GRAFIK-EYE CONTROL STATION FOR ALL SIX (6) QUARTZ LIGHTING ZONES AND STAGE LIGHTING.
5. SWITCHBANK FOR CONTROL OF ALL CIRCULATION AREA LIGHTING.
6. PROVIDE 208V POWER FOR DISPLAY LIGHTING. PROVIDE CEILING MOUNTED JUNCTION BOX AT LOCATION SHOWN.
7. PROVIDE 1" WIDE METAL FLANGE AROUND FIXTURE TRIM. MATCH COLOR/METAL OF METAL CANOPY.
8. PROVIDE ALTERNATE PRICING AS PART OF PACKAGE IV FOR LIGHTING SHOWN. BASE BID INCLUDES NO WORK.
9. PROVIDE (4) TYPE MH6A FIXTURES 3 PER SIDE AT EACH MARQUEE SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT.
10. PROVIDE (8) TYPE MH6A FIXTURES FOR LIGHTING OF EXTERIOR WALL MOUNTED SIGN. COORDINATE SIGN LOCATION AND HEIGHT WITH ARCHITECT.
11. ALL NEW EXTERIOR FIXTURES SHALL BE CONTROLLED VIA CONTACTOR FOR PHOTOCELL AND TIME CLOCK OPERATION. REF. E2.21 FOR LOCATION AND EPM#8 FOR DETAIL.
12. REMOVE EXISTING HANDRAIL STRIP LIGHTING AND CIRCUITS BACK TO PANEL ELA. E
13. REPLACE LAMPS AND DOOR FRAMES ON THREE EXISTING STEP LIGHTS IN RAMP WALL.
14. REMOVE EXISTING DOWNLIGHTS ALONG SOUTH EDGE OF EXHIBIT HALL UNDER LOW CEILING AND INSTALL NEW TYPE P2 FIXTURES SHOWN. CONNECT VIA EXISTING SWITCHES. E

NORTH

SINK COMBS DETHLEFS

Issues/Revisions:	Date:
SCD DESIGN DEVELOPMENT	12-15-00
75% CONSTRUCTION DOCUMENTS	3-16-01
CONSTRUCTION DOCUMENTS	5-16-01
PERMIT CONSTRUCTION SET	6-26-01

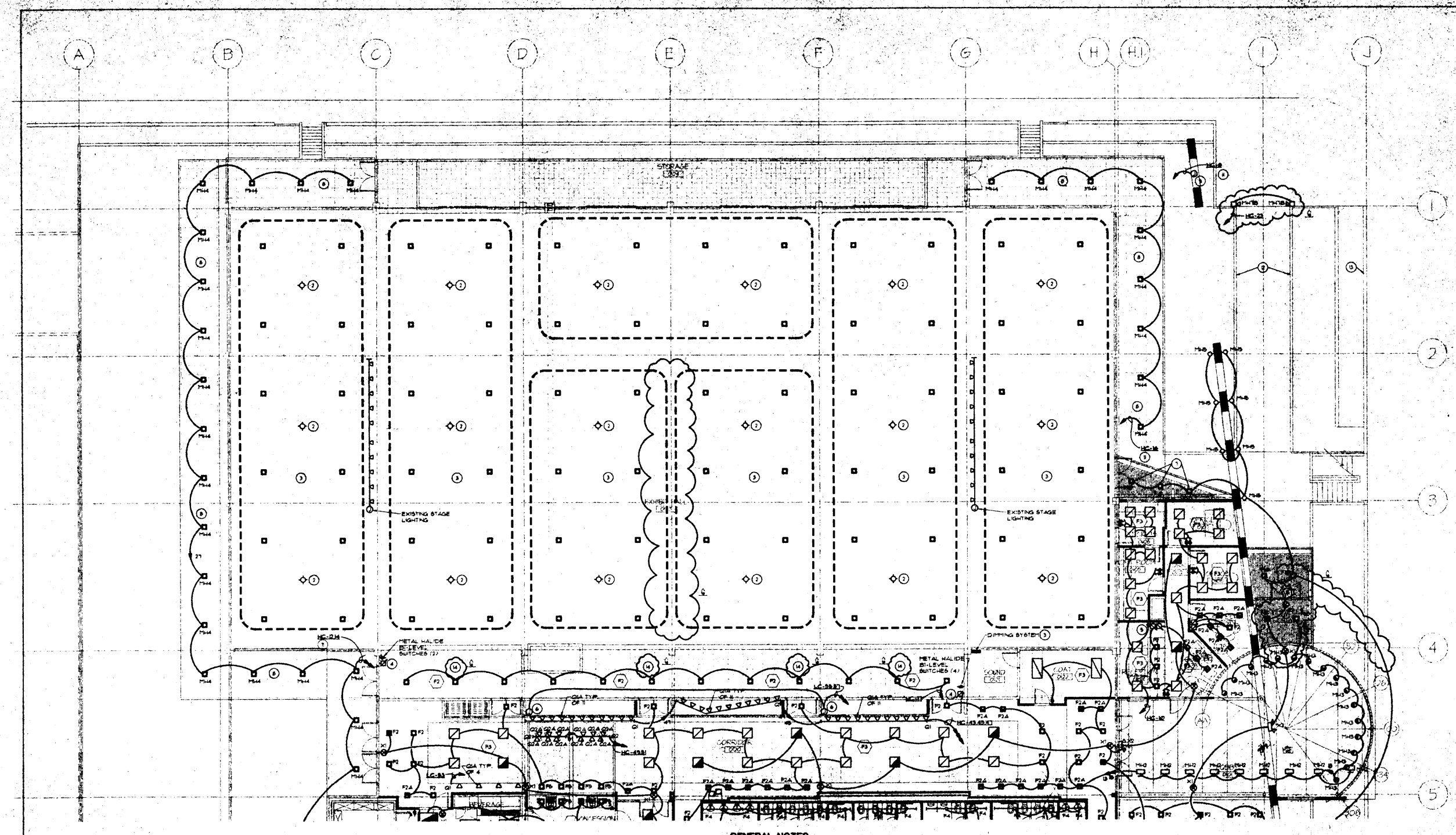
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9824

ENLARGED PLAZA LEVEL LIGHTING PLAN

Drawn by: JDK
Checked by: MRS

EL2.21



1 ENLARGED PLAZA LEVEL LIGHTING PLAN

SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL EXISTING LIGHTING (IN THE EXHIBIT HALL) SHALL REMAIN ON EXISTING PANEL 'HA' IN THE PENTHOUSE. NEW LIGHTING SHALL BE RED FROM PANEL 'HC' THIS LEVEL.
2. REMOVE ALL EXISTING LIGHTING SOUTH OF THE EXHIBIT HALL AND EXTERIOR LIGHTING ON THE EAST PLAZA. REMOVE CIRCUITING BACK TO PANELS AND LABEL AS SPARE. COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS FOR EXACT SCOPE.
3. CONTRACTOR SHALL TRACE AND VERIFY EXISTING CIRCUITS TO REMAIN AND TO BE REMOVED IN DEMOLITION SCOPE TO EXISTING PANELS HA AND ELA IN PENTHOUSE AND PANELS L-A AND L-B THIS LEVEL AND COORDINATE WITH NEW PANEL ASSIGNMENTS.

KEY NOTES:

1. PROVIDE ALTERNATE PRICING AS PART OF PACKAGE II FOR LUTRON GRAFIK EYE 4000 SERIES DIMMING SYSTEM, 24 CIRCUIT, OR APPROVED EQUAL FOR CONTROL OF ALL MEETING ROOM LIGHTING IN LIEU OF DIMMING SHOWN. PROVIDE 3VO BREAKER IN HC-13 TO FEED DIMMING CABINET IN LIEU OF BRANCH CIRCUITS INDICATED. INCLUDE CONTROLLERS AT EACH ENTRY AS SHOWN. EACH ENTRY SHALL BE FOUR ZONE FOUR SCENE TYPE. EAST AND WEST ENTRIES SHALL HAVE ADDITIONAL FOUR SCENE MASTER CONTROLLER FOR ENTIRE MEETING SPACE. BASE PRICE SHALL INCLUDE INDIVIDUAL LUTRON 300BW RATED, FLUORESCENT, SLIDE TYPE (OR APPROVED EQUAL) WALL BOX DIMMERS AS SHOWN.
2. PROVIDE ALTERNATE PRICING AS PART OF PACKAGE II TO REPLACE EXISTING LAMP AND BALLAST WITH NEW 1000W EDT METAL HALIDE LAMP AND BALLAST. ELECTRONIC BALLAST. REPLACE EXISTING KEY SWITCHES WITH NEW BI-LEVEL THREE POSITION SWITCHES BEHIND CLEAR KEYED LEXAN COVER.
3. PROVIDE ALTERNATE PRICING AS PART OF PACKAGE II TO REMOVE EXISTING DIMMING CABINET AND CONTROLS AND REPLACE WITH NEW AS INDICATED. CIRCUITS FOR EXISTING QUARTZ DOWNLIGHTS AND STAGE LIGHTING TO BE CONNECTED VIA NEW DIMMING CABINET, LUTRON 4000 SERIES, WITH 48 CIRCUIT GRAFIK EYE SERIES CABINET. DOWNLIGHTING TO BE CONTROLLED IN SEVEN ZONES, AS INDICATED BY NEW CIRCUITING SHOWN.
4. GRAFIK-EYE CONTROL STATION FOR ALL SIX (6) QUARTZ LIGHTING ZONES AND STAGE LIGHTING.
5. SWITCHBANK FOR CONTROL OF ALL CIRCULATION AREA LIGHTING.
6. PROVIDE 120V POWER FOR DISPLAY LIGHTING. PROVIDE CEILING MOUNTED JUNCTION BOX AT LOCATION SHOWN.
7. PROVIDE 1' WIDE METAL FLANGE AROUND FIXTURE TRIM. MATCH COLOR/METAL OF METAL CANOPY.
8. PROVIDE ALTERNATE PRICING AS PART OF PACKAGE IV FOR LIGHTING SHOWN. BASE BID INCLUDES NO WORK.
9. PROVIDE (4) TYPE THA FIXTURES 2 PER SIDE AT EACH MARQUEE SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT.
10. PROVIDE (3) TYPE THA FIXTURES FOR LIGHTING OF EXTERIOR WALL MOUNTED SIGN. COORDINATE SIGN LOCATION AND HEIGHT WITH ARCHITECT.
11. ALL NEW EXTERIOR FIXTURES SHALL BE CONTROLLED VIA CONTACTOR FOR PHOTOCELL AND TIME CLOCK OPERATION. SEE E2.0 FOR LOCATION AND SPARE FOR DETAIL.
12. REMOVE EXISTING HANDRAIL STRIP LIGHTING AND CIRCUITS BACK TO PANEL ELA.
13. REPLACE LAMPS AND DOOR FRAMES ON THREE EXISTING STRIPLIGHTS IN RAMP WALL.
14. REMOVE EXISTING DOWNLIGHTS ALONG SOUTH EDGE OF EXHIBIT HALL LOWER LOU CEILING AND INSTALL NEW TYPE F2 FIXTURES SHOWN. CONNECT VIA EXISTING SWITCHES.

SINK COMBS DETHLEFSEN

Issues/Revisions	Date
100% DESIGN DEVELOPMENT	12-15-00
95% CONSTRUCTION DOCUMENTS	2-26-01
CONSTRUCTION DOCUMENTS	3-16-01
FINAL CONSTRUCTION SET	4-06-01

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

ENLARGED PLAZA LEVEL LIGHTING PLAN

Drawn by: JJC
Checked by: MMB

EL2.22

ABBREVIATIONS

ABOVE	ABOVE
AC	ABOVE COUNTER
AF	ABOVE FINISHED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
AMP	AMPERE
ANN	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY
COMB	COMBINATION
COND	CONDUCTOR
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
DL	DAMP LABEL
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EHC	ELECTRIC HEATING COIL
ELEC	ELECTRIC OR ELECTRICAL
ELEV.	ELEVATOR
EMER	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EOL	E/A END OF LINE RESISTOR
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EX	EXISTING
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FOOTCANDLES
FCC	FIRE CUT-AND CENTER
FDR	FEEDER
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
GALV	GALVANIZED
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HD	HEAVY DUTY
HH	HAND HOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
ID	INSIDE DIAMETER
IMC	INTERMEDIATE GRADE METALLIC CONDUIT
INCAND	INCANDESCENT
J-BOX	JUNCTION BOX
KCMIL	THOUSAND OF CIRCULAR MILLS
KVA	KILOVOLT, AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LFC	LIQUID TIGHT FLEXIBLE CONDUIT
LTG	LIGHTING
LV	LOW VOLTAGE

ABBREVIATIONS

MAN	MANIFOLD
MB	MAIN BREAKER
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MANHOLE OR METAL HALIDE
MIN	MINIMUM
MTD	MOUNTING HEIGHT
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MV	MEDIUM VOLTAGE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PB	PUSH BUTTON
PBX	PRIVATE BRANCH EXCHANGE
PE	PHOTOELECTRIC
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SEC	SECONDARY/SECOND
SECT	SECTION
SHT	SHEET
SPDT	SINGLE POLE, DOUBLE THROW
ST	SMART TRIP
STD	STANDARD
SW	SWITCH
SWBD	SWITCH-BOARD
T	TWIST LOCK
TC	TIME CLOCK
TTC	TELEPHONE TERMINAL CABINET OR CLOSET
TTB	TELEPHONE TERMINAL BOARD
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TEMP	TEMPERATURE
UC	UNDER COUNTER
UG	UNDER GROUND
UH	UNIT HEATER
UL	UNDERWRITER LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VM	VOLTMETER
W	WATT
W	WITH
WH	WATT HOUR
WHM	WATT HOUR METER
WP	WEATHERPROOF
WPL	WEATHER PROOF LOCKABLE ENCLOSURE
WT	WATERTIGHT
XFMR	TRANSFORMER

DEVICES

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- FOURPLEX RECEPTACLE
- SPECIAL RECEPTACLES (LETTER NEXT TO DEVICE IS A NOTE FOR)
- DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT
- FLOOR MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED FOURPLEX RECEPTACLE
- JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- SINGLE POLE TOGGLE SWITCH
- THREE WAY TOGGLE SWITCH (LOWER CASE LETTERS DENOTES SWITCHING)
- GUARD LIGHT SWITCH
- SINGLE POLE THERMAL OVERLOAD SWITCH (W/ CIRCUITED PILOT LIGHT)
- DIMMER (MODEL AS NOTED)
- CEILING MOUNTED OUTLET
- TV OUTLET - CEILING MOUNTED
- TV OUTLET - WALL MOUNTED

EQUIPMENT

- DISCONNECT SWITCH
- COMBINATION MOTOR STARTER
- MOTOR
- PANEL
- PANEL
- AUTOMATIC TRANSFER SWITCH
- METER
- CT's
- GROUND
- DELTA/WYE WITH GROUND
- POWER TRANSFORMER
- FUSE & SWITCH
- CIRCUIT BREAKER
- GROUND FAULT INTERRUPTER BREAKER
- MECHANICAL EQUIPMENT IDENTIFICATION TAG
- TRANSIENT VOLTAGE SURGE SUPPRESSION
- ELEVATOR CONTROL PANEL
- GENERATOR ANNUNCIATOR PANEL

FIRE ALARM

- FLOW SWITCH
- TAMPER SWITCH
- SMOKE DETECTOR
- HORN
- HORN WITH STROBE (ADA COMPLIANCE)
- DUCT DETECTOR WITH REMOTE LED
- HEAT DETECTOR
- PULL STATION
- REMOTE INDICATOR LIGHT WALL MOUNTED
- ADA STROBE WALL MOUNTED
- MAGNETIC DOOR HOLDER
- FIRE ALARM CONTROL PANEL
- REMOTE FIRE ALARM ANNUNCIATOR PANEL

FIRE ALARM SYSTEM NOTES:

1. FIRE ALARM CONTRACTOR SHALL PROVIDE COMPLETE SYSTEM WIRING AND INSTALLATION DIAGRAMS.
2. PROVIDE COMPLETE BATTERY AND POWER SUPPLY CALCULATIONS.
3. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR ALL INTERFACE REQUIREMENTS WITH FIRE-ACTION SYSTEMS.
4. COORDINATE WITH HOOD SERVICE EQUIPMENT CONTRACTOR FOR HOOD SUPPRESSION SYSTEM INTERCONNECTION REQUIREMENTS.

COMMUNICATIONS

- TELEPHONE OUTLET QUANTITIES SHOWN IN BRACKETS
- FAT TELEPHONE-WITH ELEC J BOX-WALL MOUNTED
- WALL MOUNTED TELEPHONE OUTLET (+48")
- ELEVATOR CAB TELEPHONE-ADA COMPLIANT
- DATA OUTLET
- TELE/DATA OUTLET
- FLOOR COMM. OUTLET, (B FOR SECURITY)
- CARD READER

COMMUNICATION DEVICE LOCATION AT 18" AFF UNLESS NOTED OTHERWISE. PROVIDE (1) 4"X4"X2 1/8" BACKBOX FLUSH MOUNTED ON WALL WITH 1" CONDUIT ROUTED TO NEAREST TELEPHONE ROOM OR CABLE TRAY

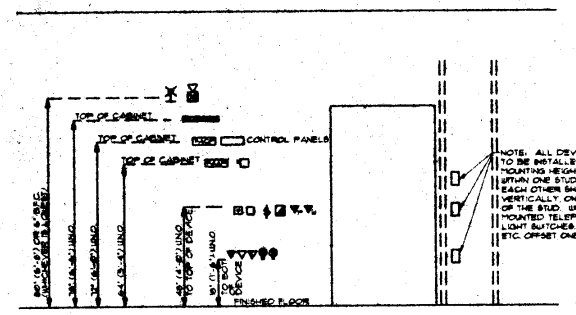
LIGHTING

- 2' x 4' FLUORESCENT FIXTURE
- 2' x 2' FLUORESCENT FIXTURE
- WALL MOUNTED FLUORESCENT FIXTURE
- RECESSED DOWNLIGHT
- RECESSED WALLWASH DOWNLIGHT
- MONO POINT WALLWASH TRACK HEAD
- STRIP LIGHT
- WALL MOUNTED FIXTURE
- SURFACE MOUNTED DOWNLIGHT/BOLLARD
- EMERGENCY BATTERY PACK
- SINGLE FACE EXIT SIGN
- DOUBLE FACE EXIT SIGN
- WALL MOUNTED FIXTURE
- LINEAR WALLWASH FLUORESCENT SLOT
- MID HIGHBAY

NOTE: SHADED IN FIXTURES DENOTES FIXTURE TO BE PROVIDED WITH EMERGENCY BATTERY BALLAST.

GENERAL ELECTRICAL REQUIREMENTS:

1. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE INSTALLED GROUPED TOGETHER. THE LOCATION OF THESE RACEWAYS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO INSTALLATION.
2. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE THE CLEARANCES IN FRONT AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
3. ALL SWITCHGEAR, SWITCHBOARDS AND TRANSFORMERS SHALL HAVE A 4 INCH HOUSE KEEPING PAD.
4. DATA SHOWN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THIS CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC., AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDING.
5. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, ORDERLY AND EFFICIENT INSTALLATION WHICH INCLUDES BUT ARE NOT LIMITED TO:
   a. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (IE. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.)
   b. COORDINATE NECESSARY EQUIPMENT FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATABLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
   c. THIS CONTRACTOR SHALL ASSIST THE DIVISION 9 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (IE. LOCATING ALL LIGHTING FIXTURES IN CEILINGS WITH CEILING CLEARANCES, CABLE TRAY, CLEARANCE THROUGHOUT TENANT AREAS.)
6. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO PURCHASING. SUCH POWER REPORT DISCREPANCIES TO ENGINEER.
7. DUCT DETECTORS WILL BE FURNISHED BY DIVISION 16 AND SET IN PLACE UNDER DIVISION 9. THE DIVISION 9 CONTRACTOR SHALL WIRE SHUTDOWN CONTROLS FOR AIR HANDLERS UTILIZING AUXILIARY CONTACTS ON DUCT DETECTOR. DIVISION 16 TO COORDINATE LOCATION OF DETECTOR WITH DIVISION 9 TO MAINTAIN PROPER CLEAR LENGTH OF DUCT REQUIRED BY FIRE ALARM MANUFACTURER.
8. REFER TO DIVISION 16 OF THE SPECIFICATIONS FOR COORDINATION OF MECHANICAL AND ELECTRICAL INSTALLATION.
9. DEFINITIONS:
   A. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO AN ITEM OF EQUIPMENT.
   B. "INSTALL" MEANS TO "SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER".
   C. "PROVIDE" MEANS TO "FURNISH AND INSTALL".
   D. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS." SIGNIFICANT ASPECTS SHALL BE DETERMINED BY THE ENGINEER.
10. "FIRESTOPPING" REQUIREMENT: ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND NOT DAMAGED WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS, ASTM E-814.
11. COORDINATE THE LOCATION OF FLOW SWITCHES, TAMPER SWITCHES AND FIRE-ACTION OR DRY FIRE SYSTEM COMPONENTS WITH FIRE PROTECTION CONTRACTOR AND PROVIDE FIRE ALARM SYSTEM CONNECTION.
12. ALL DEVICES IN EXTERIOR AREAS SHALL BE WEATHERPROOF TYPE.

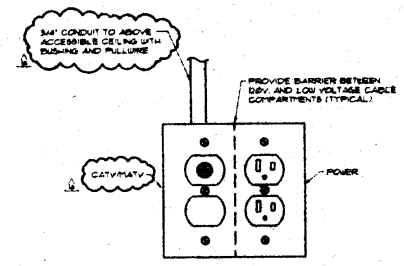


TYPICAL DEVICE MOUNTING HEIGHTS
NO SCALE

NOTES:
1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DUPLEX RECEPTACLES SHALL BE MOUNTED HORIZONTALLY UNO WE ARCH.
2. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED BETWEEN TOP OF DOOR TRIM AND CEILING LINE.
3. MOUNTING HEIGHTS AND LOCATIONS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
4. ALL DEVICES DESIGNATED AS "ACT" (ABOVE COUNTER) SHALL BE MOUNTED 6" ABOVE COUNTER. VERIFY HEIGHTS WITH ARCHITECT.
5. FOR CEILINGS BELOW 7'-6" FIRE ALARM STROBE OR HORN/STROBES SHALL BE WALL MOUNTED 6" BELOW FINISHED CEILING.

TELE/DATA ONE-LINE
NO SCALE

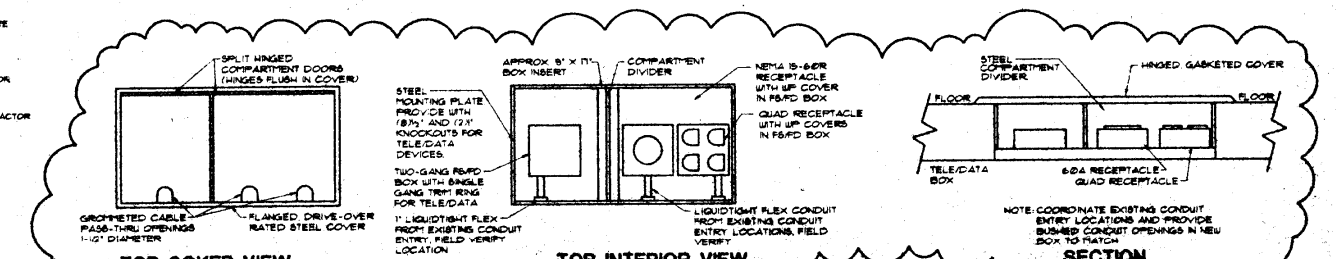
NOTES:
1. PROVIDE BUSHINGS AND CONNECTORS AT CABLE TRAY INTERFACE/CONDUIT END.
2. PROVIDE PULLWIRE IN ALL CONDUITS.



TV CONNECTION PLATE DETAIL

NOTE: PLATE AND C.V. CONNECTORS TO BE PROVIDED BY A/V CONTRACTOR

TELEVISION CONNECTION PLATE DETAIL
SCALE: NONE

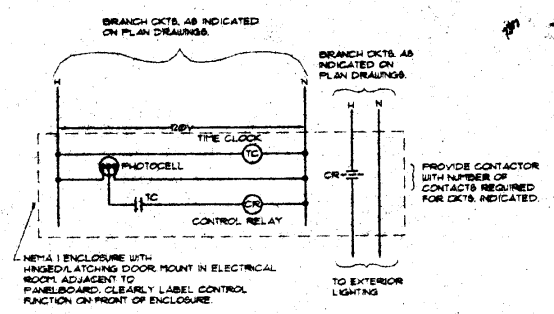


IN-FLOOR SERVICE BOX DETAIL
SCALE: NONE

MECHANICAL EQUIPMENT SCHEDULE

TAG	DESCRIPTION	HP	HTG KW	AMPS	VOLTS	PH	FEEDER	DISC	FUSE	BREAKER
RTU-1	ROOF TOP UNIT	7.5	--	75.4 MCA	480	3	4#3, 1#8G, 1-1/2"C	60/3 (HP)	80A	80/3
RTU-2	ROOF TOP UNIT	1.5	--	32 MCA	480	3	4#8, 1#10G, 1"C	60/3 (HP)	40A	40/3
FCU-1-4	FAN COIL UNITS	1/6	--	4.4	120	1	2#12, 1#12G, 3/4"C	S10	--	20/1
REF-1	KITCHEN EXH. FAN	5	--	7.6	480	3	3#12, 1#12G, 3/4"C	30/3	10A	15/3
EF-1	EXHAUST FAN	3/4	--	1.5	480	3	2#12, 1#12G,3/4"C	30/3	2A	15/3
EF-2	EXHAUST FAN	1/8	--	2.9	120	1	2#12, 1#12G,3/4"C	S10	--	20/1
EF-3	EXHAUST FAN	1/6	--	4.4	120	1	2#12, 1#12G,3/4"C	S10	--	20/1
EF-4	EXHAUST FAN	1/25	--	1	120	1	2#12, 1#12G,3/4"C	S10	--	20/1
EF-5	EXHAUST FAN	1/6	--	4.4	120	1	2#12, 1#12G,3/4"C	S10	--	20/1
EF-6	EXHAUST FAN	1/4	--	5.8	120	1	2#12, 1#12G,3/4"C	S10	--	20/1
MAU-1	MAKE-UP AIR UNIT	10	--	20.3	480	3	4#10, 1#10G, 3/4"C	30/3	30A	30/3
AC-1 (IN)	AIR COND. UNIT (INDOOR	--	--	16	208	1	2#10, 1#10G,3/4"C	30/2	25A	25/2
AC-1 (OUT)	AIR COND. UNIT (OUTDOOR	--	--	16	208	1	2#10, 1#10G,3/4"C	30/2	25A	25/2
CUH-1	CABINET UNIT HEATER	--	--	0.8	120	1	2#12, 1#12G,3/4"C	S10	--	20/1

NOTES:



NOTES:
1. COORDINATE MOUNTING LOCATION OF PHOTOCELL WITH ARCHITECT.

EXTERIOR LIGHTING CONTROL DIAGRAM
(E) SCALE: NONE

NOTES

1. BOX SHALL SIT INSIDE EXISTING FLOOR BOXES CAST IN SLAB. PROVIDE NYLON BUSHINGS AT EXISTING CONDUIT ENTRIES FOR EXTENSION INTO NEW BOX.
2. PROVIDE FACTORY SHOP DRAWING FOR APPROVAL PRIOR TO MANUFACTURING.

SINK COMBS DETHLEFS

Issues/Revisions	Date
100% DESIGN DEVELOPMENT	10-15-04
75% CONSTRUCTION DOCUMENTS	2-15-05
CONSTRUCTION DOCUMENTS	3-18-05
FINAL CONSTRUCTION SET	4-29-05

TWO RIVERS CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

ELECTRICAL LEGEND DETAILS AND PANEL SCHEDULES

Drawn by: JJS
Checked by: MHB

EP0.01

FEEDER TABLE - COPPER CONDUCTORS (SEE SPECIFICATIONS FOR INSULATION TYPE)					
OVER CURRENT PROTECTION AMPACITY	FOR WIRE REF	3 WIRE WIRE AWG-THDN	GND WIRE AWG	CONDUIT SIZE INCHES
20	F1	(3) #12	12	3/4
30	F2	(3) #10	10	3/4
40	F3	(3) #8	10	3/4
50	F4	(3) #6	8	1
65	F5	(3) #4	8	1-1/4
70	F6	(3) #4	8	1-1/4
85	F7	(3) #3	8	1-1/4
90	F8	(3) #3	8	1-1/4
100	F1A	(3) #1	8	1-1/2
125	F1B	(3) #1	6	1-1/2
150	F9	(3) 1/0	6	1-1/2
175	F10	(3) 2/0	6	2
200	F10	(3) 3/0	6	2
225	F11	(3) 4/0	4	2
250	F12	(3) 250	4	2-1/2
300	F13	(3) 350	4	3
350	F14	(3) 500	3	3
400	F15	(3) 500	(2) 3	(1) 3
450	F16	(6) 4/0	(2) 2	(2) 2
500	F17	(6) 350	(2) 2	(2) 2-1/2
600	F18	(6) 350	(2) 1	(2) 3
700	F19	(6) 500	(2) 1/0	(2) 3
800	F20	(6) 500	(3) 1/0	(2) 3
1000	F21	(9) 500	(3) 2/0	(3) 3
1200	F22	(12) 350	(4) 3/0	(4) 3
1600	F23	(8) 400	(5) 4/0	(5) 3
2000	F24	(16) 400	(6) 250	(6) 3

OVER CURRENT PROTECTION AMPACITY	FOR REF	4 WIRE WIRE AWG-THDN	GND WIRE AWG	CONDUIT SIZE INCHES
20	FA1	(4) #12	12	3/4
30	FA2	(4) #10	10	3/4
40	FA3	(4) #8	10	1
50	FA4	(4) #6	8	1-1/4
65	FA5	(4) #4	8	1-1/4
70	FA6	(4) #4	8	1-1/2
85	FA7	(4) #3	8	1-1/2
90	FA1A	(4) #3	8	1-1/2
100	FA1B	(4) #1	6	1-1/2
125	FA8	(4) #1/0	6	2
150	FA9	(4) #2/0	6	2
175	FA10	(4) #3/0	6	2
200	FA11	(4) #4/0	4	2-1/2
225	FA12	(4) 250	4	3
250	FA13	(4) 350	4	3
300	FA14	(4) 500	3	3-1/2
350	FA15	(4) 500	(2) 2	(1) 3
400	FA16	(8) 4/0	(2) 2	(2) 2-1/2
450	FA17	(8) 250	(2) 1/0	(2) 3
500	FA18	(8) 350	(2) 1	(2) 3-1/2
600	FA19	(8) 500	(2) 3/0	(2) 3-1/2
800	FA20	(8) 500	(3) 2/0	(2) 3
1000	FA21	(12) 500	(3) 3/0	(3) 3-1/2
1200	FA22	(16) 350	(4) 3/0	(4) 3-1/2
1600	FA23	(12) 400	(5) 4/0	(5) 3
2000	FA24	(24) 400	(6) 250	(6) 3

NOTES:

A. CONDUIT SIZES ARE MINIMUM, INCREASE FOR LONG OR DIFFICULT RUNS.

B. ABOVE 86°F AMBIENT INCREASE WIRE SIZE PER NEC.

C. USE 75°C COPPER WIRE MINIMUM OR AS SPECIFIED.

(B) FEEDER TABLE
SCALE:

TRANSFORMER TABLE - 480V PRIMARY-208/120V, SECONDARY										
KVA	FL AMPS 480V	BKR SIZE (1)	(3)	(2) FDR	TRANS GRDING ELECTRODE WIRE AWG	CON-DUIT IN	FL AMPS 208V	BKR SIZE (1)	(3)	(2) FDR
3PH										
6	7.2	15		F1	8	3/4	16.7	20		FA1
9	10.8	15		F1	8	3/4	25.0	30		FA2
15	18.0	30		F2	8	3/4	41.7	50		FA4
30	36.1	50		F4	6	3/4	83.3	100		FA7
45	54.1	70		F5	6	3/4	124.9	150		FA9
75	90.2	125		F7B	2	3/4	208.2	225		FA11
112.5	135.3	175		F8	1/0	1	312.4	400		FA13
150	180.4	225		F9	1/0	1	416.4	500		FA17
225	270.6	350		F14	2/0	1	624.5	800		FA20
300	360.8	450		F15	3/0	1	832.7	1000		FA21
500	601.4	800		F16	4/0	1	1387.5	1600		FA23

1. USE DEVICE TYPES INDICATED ON SINGLE LINE DIAGRAM.
2. 3 PHASE TRANSFORMER DEVICES ARE 3 POLE.
3. REFERENCE FEEDER TABLE FOR FEEDER SIZE.
4. TRIP SIZE INDICATED, REFERENCE SPECIFICATIONS FOR EXCEPTIONS.

(A) TRANSFORMER TABLE
SCALE:

MSB LOAD SUMMARY			
PANEL	LOAD KVA	LOAD AMPS@480	RATING AMPS
ELA	23	28	100
MDB	382	459	2000
LB	97	97	200
LC	31	87	200
ELEVATOR	64	88	--
DP	65	101	200
LDP	262	315	600
TOTAL	998	1234	3500

** = ESTIMATED LOAD

LDP LOAD SUMMARY			
PANEL	LOAD KVA	LOAD AMPS@208	RATING AMPS
LA	61	176	400
LK	109	751	400
STAGE SWITCH	43	DP	--
STAGE SWITCH	18	LB	--
LB	18	28	200
TOTAL	319	459	1000

** = ESTIMATED LOAD, ONLY ONE LOCATION TO BE CONNECTED SIMULTANEOUSLY

EXISTING MDB LOAD SUMMARY			
PANEL	LOAD KVA	LOAD AMPS@480	RATING AMPS
HA	31	37	100
HPH	132	156	225
AIR COMP.	62	76	--
HT	175	188	400
TOTAL	392	456	800

** = ESTIMATED LOADS ON EXIST. PANELS BASED ON EXIST. DRAWINGS

RUNNER 1 - AVAILABLE FAULT CURRENT	
#	
1	- A
2	- A
3	- A
4	- A
5	- A
6	- A
7	- A
8	- A
9	- A
10	- A
11	- A
12	- A

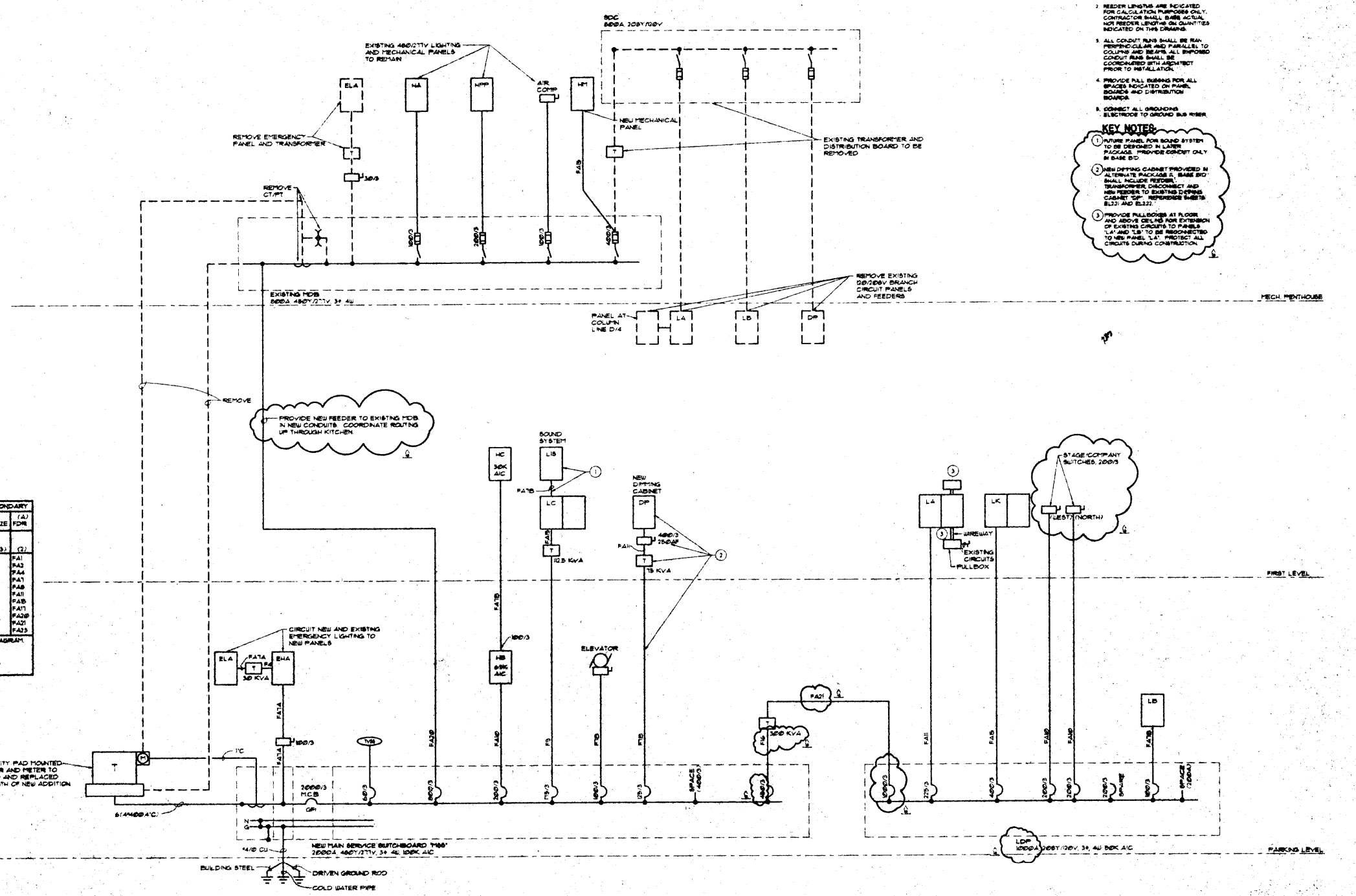
REFER TO REVISION #2 FOR FAULT CURRENT VALUES.

GENERAL NOTES:

1. ALL FEEDERS SHALL BE COPPER (TBC).
2. FEEDER LENGTHS ARE INDICATED FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL BASE ACTUAL HOT FEEDER LENGTHS ON QUANTITIES INDICATED ON THIS DRAWING.
3. ALL CONDUIT RUNS SHALL BE RUN PERPENDICULAR AND PARALLEL TO COLUMN AND BEAMS. ALL EXPOSED CONDUIT RUNS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
4. PROVIDE PULL SUBBING FOR ALL SPACES INDICATED ON PANEL BOARDS AND DISTRIBUTION BOARDS.
5. CONNECT ALL GROUNDING ELECTRODE TO GROUND BUS RISER.

KEY NOTES:

1. FUTURE PANEL FOR SOUND SYSTEM TO BE DESIGNED IN LATER PHASE. PROVIDE CONDUIT ONLY IN BASE BID.
2. NEW DIMMING CABINET PROVIDED IN ALTERNATE PACKAGE 1. BASE BID SHALL INCLUDE FEEDER, TRANSFORMER, DISCONNECT AND NEW FEEDER TO EXISTING DIMMING CABINET DP. REFERENCE SHEETS E1.23 AND E1.32.
3. PROVIDE PULL BOXES AT FLOOR AND ABOVE CEILING FOR EXTENSION OF EXISTING CIRCUITS TO PANELS 'LA' AND 'LB' TO BE RECONNECTED TO NEW PANEL 'LA'. PROTECT ALL CIRCUITS DURING CONSTRUCTION.



(1) ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

Sink Combs Dethleffs

Issues/Revisions:	Date:
100% DESIGN DEVELOPMENT	09-12-00
75% CONSTRUCTION DOCUMENTS	2-16-01
CONSTRUCTION DOCUMENTS	3-16-01
FINAL CONSTRUCTION SET	4-26-01

TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SGD Project No.: 9924

ELECTRICAL ONE-LINE DIAGRAM

Drawn by: JAR
Checked by: RDB

EP1.00

T.O.FIN. SLAB
EL. +4578.17 SITE

STORAGE/
MECHANICAL
[122]

ELECTRICAL
[103]

VESTIBULE
[101]

CEILING MOUNTED TYPICAL
IN PARKING GARAGE

NEW PUBLIC
SERVICE COMPANY
TRANSFORMER

225
KVA

U.G. SERVICE
ENTRANCE
CONDUITS

SUSPENDED
KVA

COORDINATE TO
LIGHT FIXTURE
SHOWN ON
DRAWING EL3.1

ELEVATOR
DISCONNECT

ELEVATOR
CAB LIGHTS

GENERAL NOTES:

1. COORDINATE REMOVAL OF EXISTING SERVICE ENTRANCE CONDUITS.

KEY NOTES:

1. MOUNT ALL DEVICES IN ELEVATOR PIT.
2. EXTERIOR/GARAGE LIGHTING CONTACTOR. RE: DETAIL ON SHEET EP4.01
3. DETECTORS SHALL BE INTERCONNECTED TO ELEVATOR MACHINE TO PERFORM RECALL AND SHUNT-TRIP FUNCTIONS PER THE SPECIFICATIONS.
4. CONNECTIONS FOR HEAT TRACE PROVIDED BY DIVISION 15. COORDINATE EXACT LOCATIONS AND REQUIREMENTS.

1 ENLARGED PARKING LEVEL POWER PLAN
SCALE: 1/8"=1'-0"

NORTH

SINK COMBS DETHLEFS

Issues/Revisions	Date
100% DESIGN DEVELOPMENT	12-15-00
70% CONSTRUCTION DOCUMENTS	2-16-01
CONSTRUCTION DOCUMENTS	3-12-01
FINAL CONSTRUCTION SET	4-26-01

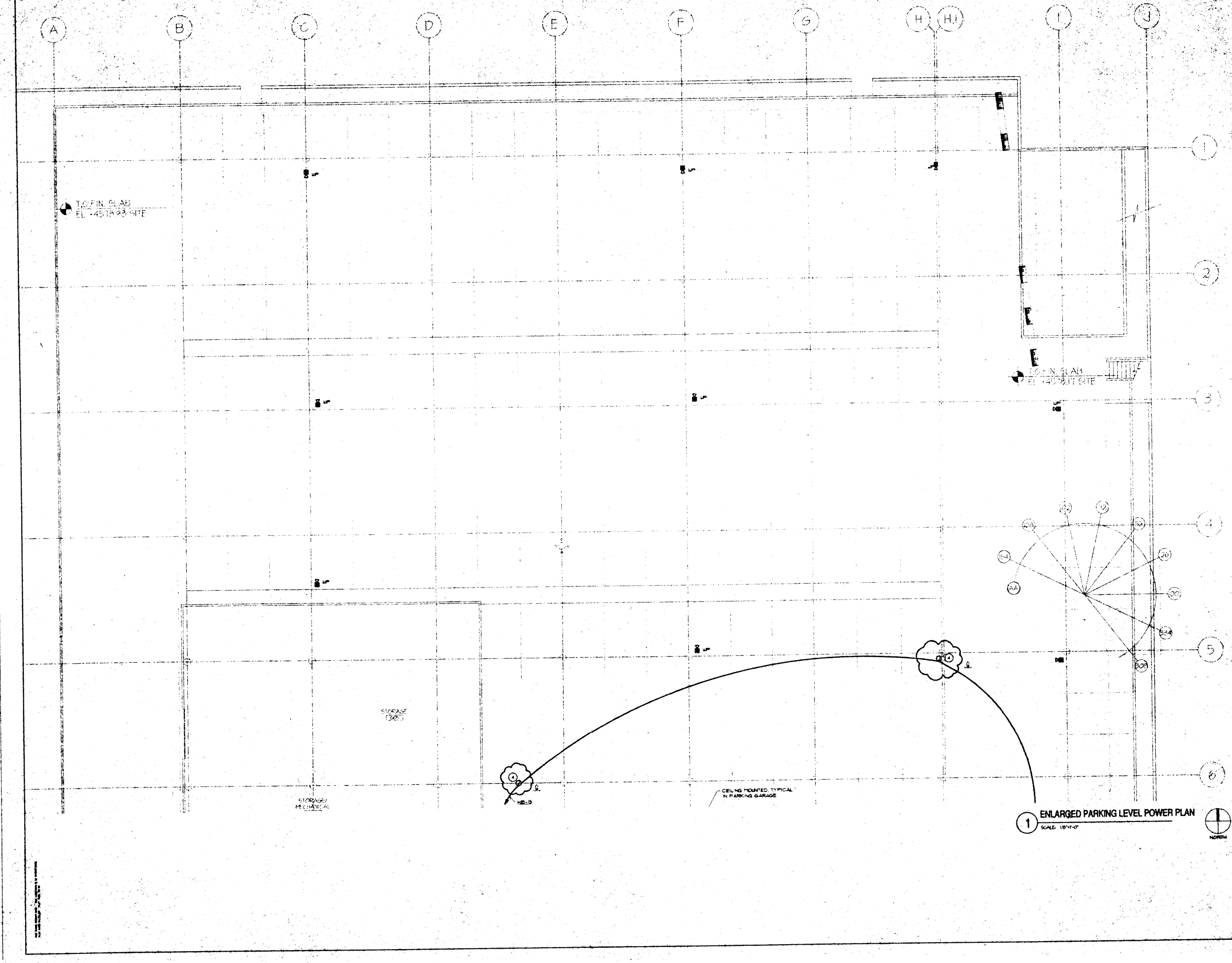
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 9924

ENLARGED PARKING LEVEL POWER PLAN

Drawn by: AJK
Checked by: Kerlin

EP2.11



1 ENLARGED PARKING LEVEL POWER PLAN
SCALE: 1/8"=1'-0"

NORTH

SINK COMBS DETHLEFS

Issues/Revisions:	Date:
100% DESIGN DEVELOPMENT	9-28-00
TSR CONSTRUCTION DOCUMENTS	2-5-01
CONSTRUCTION DOCUMENTS	3-2-01
FINAL CONSTRUCTION SET	4-09-01

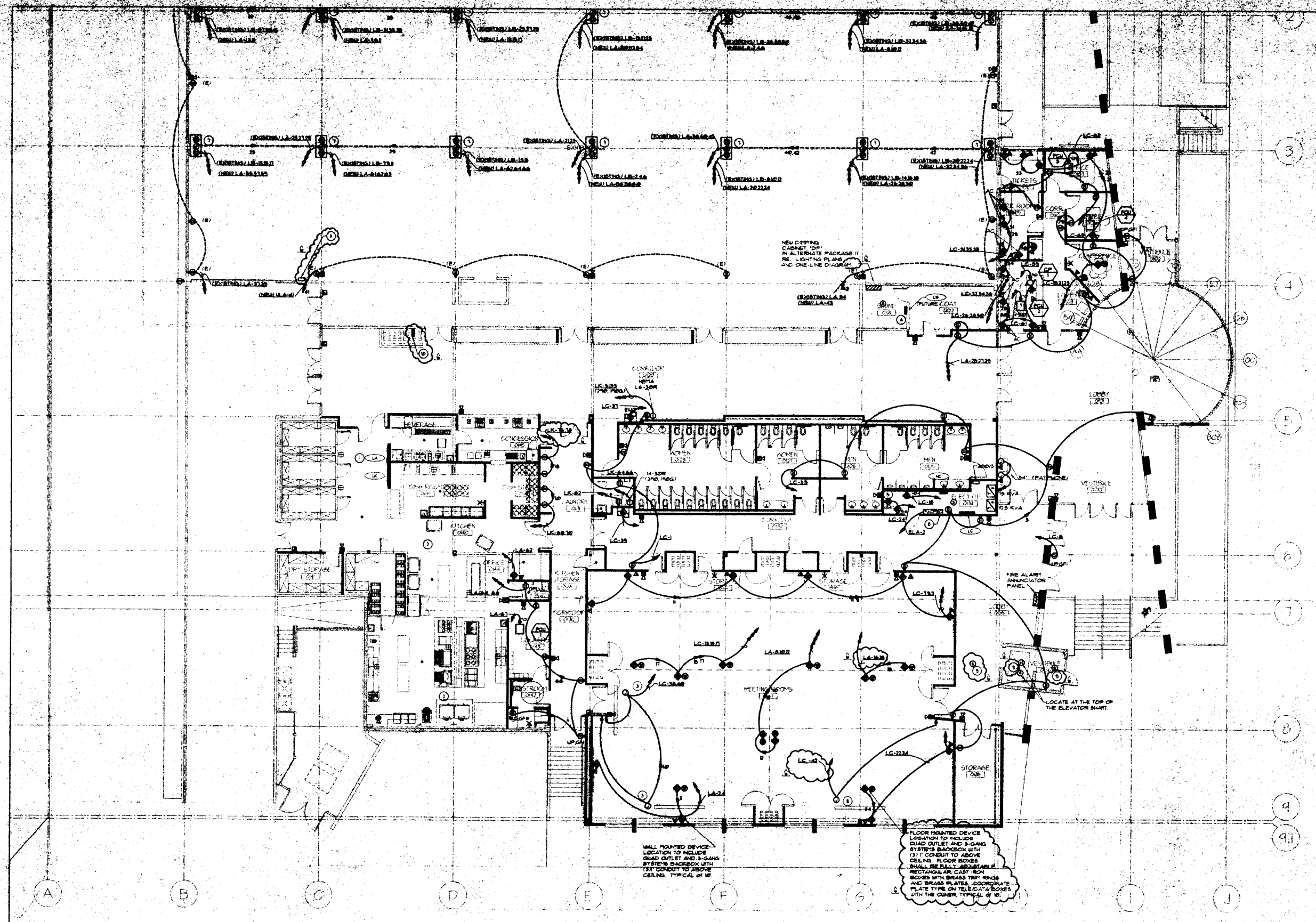
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No: 9924

ENLARGED
PARKING LEVEL
POWER PLAN

Drawn by: MR
Checked by: RHS

EP2.12



GENERAL NOTES:

1. PROVIDE WEATHER PROOF HORN AND STROBE BY SIAMESE CONNECTION ON BUILDING EXTERIOR.
2. REMOVE ALL EXISTING DEVICES SOUTH OF EXHIBIT HALL. REMOVE CIRCUITS BACK TO PANELBOARDS AND LABEL AS SPARE. REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR SCOPE AREA.
3. REMOVE EXISTING FIRE ALARM DEVICES IN EXHIBIT HALL AND PROVIDE NEW AS SHOWN.
4. PROVIDE FIRE ALARM CONNECTIONS TO ROOFTOP UNITS PER SWITCHES IN PENTHOUSE. COORDINATE LOCATION WITH FIRE PROTECTION CONTRACTOR.

KEY NOTES:

1. NEW PANEL 'A' IN SAME APPROXIMATE LOCATION AS EXISTING PANELS 'LA' AND 'LB' BEING REMOVED. SEE DETAILS ON EP1.00, ONE-LINE DIAGRAM, EXTEND/RECONNECT EXISTING CIRCUITS TO NEW PANEL.
2. REFERENCE FOOD SERVICE ELECTRICAL PLAN EFS1.00 FOR POWER REQUIREMENTS WITHIN KITCHEN.
3. CONNECTION FOR PROJECTION SCREEN MOTOR. PROVIDE CONDUIT AND BACKBOX TO SWITCH LOCATION. COORDINATE CONNECTION REQUIREMENTS WITH SUPPLIER.
4. STUB-UP CONDUIT 1" AT FACE OF WALL FOR FUTURE PANEL 'FRD', ONE-LINE DIAGRAM SHEET EP1.00.
5. PROVIDE (3) 4" CONDUITS TO THE PROPERTY LINE. COORDINATE WITH THE TELEPHONE COMPANY. PROVIDE (3) 3" CONDUITS TO EXISTING TELEPHONE BACKBOARD IN MECHANICAL PENTHOUSE. ABSURE THE SERVICE CONDUITS EXTEND FROM THE ROOM TO THE USE PROPERTY LINE. COORDINATE WITH OWEST FOR LOCATION. PROVIDE A 1/4"X72"X96" GROUND BUS ON THE WEST WALL WITH A #6 CU GROUND IN 1" C. TO THE BUILDING SERVICE GROUND.
6. NOT USED.
7. CONTRACTOR SHALL REMOVE EXISTING PHONE DEVICES, PHONE WIRING, ELECTRICAL DEVICES AND BOXES AT EACH LOCATION. CLEAN/CLEAR OUT CONCRETE BLOCKOUT AS NECESSARY. PROVIDE NEW BUSHINGS ON CONDUIT ENTRIES AND NEW STEEL BOX INSERTS IN EXISTING LOCATIONS PER DETAIL ON EP4.00. BOXES AND COVERS SHALL BE SECURED TO CONCRETE SLABS AND SHALL BE DRIVE-OVER RATED. PROVIDE PULLWIRE FOR TELECOM CABLING BY THE OWNER IN EXISTING 1" CONDUIT TO EACH BOX LOCATION. SUBMIT FACTORY SHOP DRAWINGS FOR FLOOR BOXES FOR APPROVAL PRIOR TO FABRICATION. PROVIDE NEW 640A, 3P, 208Y/120V RECEPTACLES AND DUPLEX RECEPTACLES. CONNECT TO EXISTING CIRCUITS.
8. EXTERIOR LIGHTING CONTACTOR. SEE DETAIL ON SHEET EP4.00.
9. DETECTORS SHALL BE INTERCONNECTED TO ELEVATOR MACHINE TO PERFORM RECALL AND SHUNT-TRIP FUNCTIONS PER THE SPECIFICATIONS.
10. EXISTING LOAD CENTER TO BE REMOVED. TRACE FEEDER TO PANEL AND REMOVE. VERIFY ALL BRANCH CIRCUITS BEING REMOVED IN DEMOLITION. ANY BRANCH CIRCUITS REMAINING SHALL BE SPLICED AND EXTENDED TO NEW PANEL 'LA'. AS-BUILT ACCORDINGLY.
11. NEW STAGE 'COMPANY' SWITCH LOCATION. EXISTING DISCONNECT SWITCH THIS APPROXIMATE LOCATION TO BE REMOVED. TRACE FEEDER TO EXISTING SWITCH AND REMOVE. PROVIDE NEW DISCONNECT SWITCH AT +6' A.F.F. PER THE ONE-LINE DIAGRAM. PATCH AND PAINT WALL/FLOOR AS NECESSARY.

1 ENLARGED PLAZA LEVEL POWER PLAN
SCALE: 1/8"=1'-0"

NORTH

SINK COVERS DEMOLISH

ISSUED/REVISIONS	DATE
EXIST. DEMOLITION DOCUMENTS	12-15-09
75% CONSTRUCTION DOCUMENTS	2-16-10
CONSTRUCTION DOCUMENTS	3-16-10
FINAL CONSTRUCTION SET	4-26-10

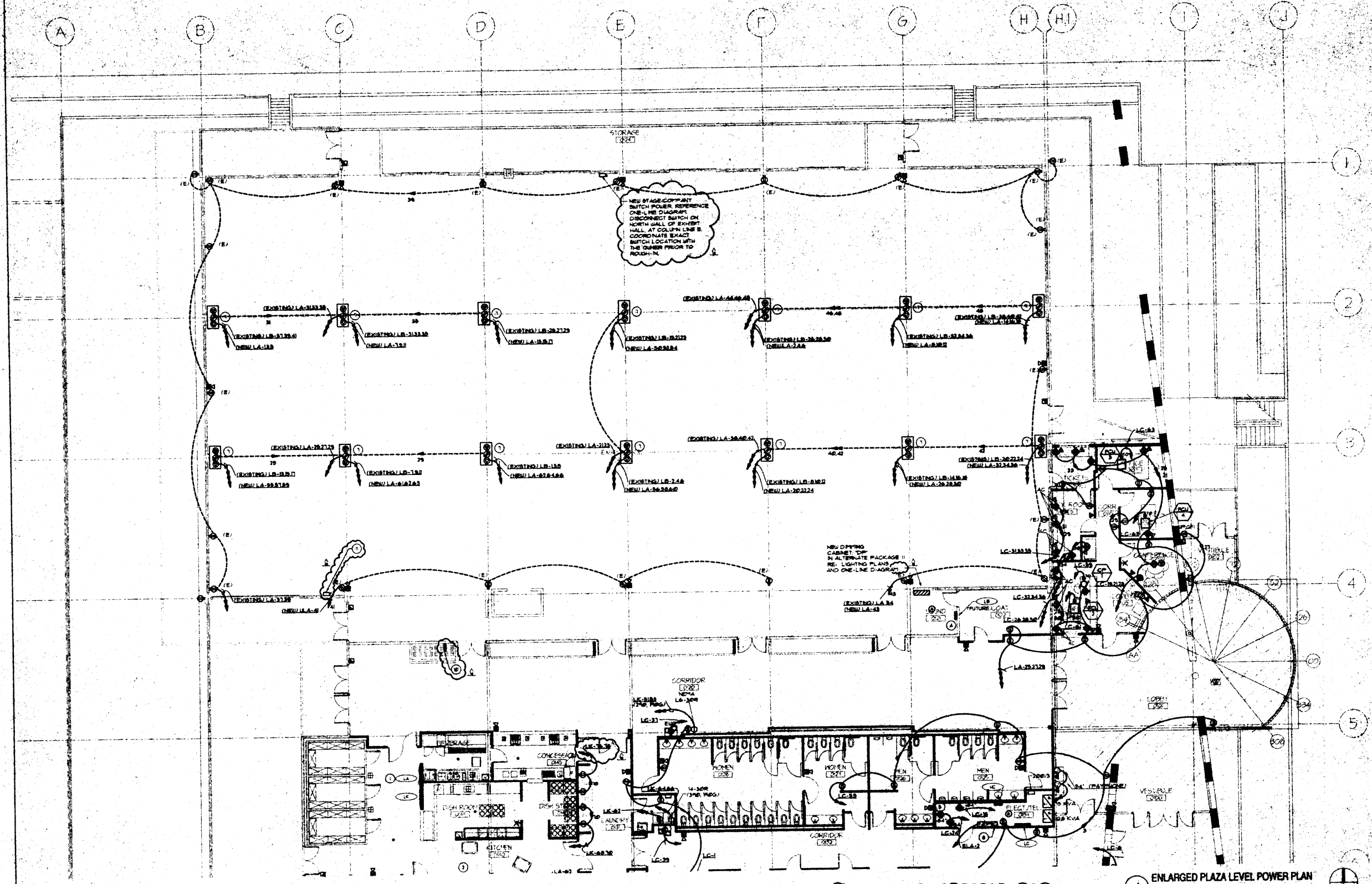
TWO RIVERS
CONVENTION CENTER
GRAND JUNCTION, COLORADO

SCD Project No.: 09024

ENLARGED PLAZA LEVEL POWER PLAN

Drawn by: JJK
Checked by: RTB

EP2.21


A
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STORAGE
224
NEW STAGE/COMPANY SWITCH POWER. REFERENCE ONE-LINE DIAGRAM. DISCONNECT SWITCH ON NORTH WALL OF EXHIBIT HALL AT COLUMN LINE B. COORDINATE EXACT SWITCH LOCATION WITH THE OWNER PRIOR TO ROUGH-IN.
(EXISTING) LA-31.33.38
(NEW) LA-13.B
(EXISTING) LB-31.39.4
(EXISTING) LB-31.33.38
(NEW) LA-13.I
(EXISTING) LB-28.27.29
(NEW) LA-13.B.1
(EXISTING) LA-44.46.48
(EXISTING) LB-31.27.29
(NEW) LA-34.0.32.4
(EXISTING) LB-28.28.30
(NEW) LA-2.B.6
(EXISTING) LB-32.34.36
(NEW) LA-8.M.12
(EXISTING) LA-28.27.29
(EXISTING) LB-13.B.17
(NEW) LA-99.B.1.B.9
(EXISTING) LB-13.B
(NEW) LA-8.M.2.6.3
(EXISTING) LA-31.33.38
(NEW) LA-4.B
(EXISTING) LA-31.33.38
(NEW) LA-13.B
(EXISTING) LB-13.B
(NEW) LA-97.B.4.6.6
(EXISTING) LA-31.33.38
EXIST.
(EXISTING) LB-2.4.6
(NEW) LA-94.58.6.6
(EXISTING) LA-44.46.48
(EXISTING) LB-8.M.12
(NEW) LA-30.22.24
(EXISTING) LB-14.16.18
(NEW) LA-26.28.30
(EXISTING) LB-30.22.24
(NEW) LA-32.34.36
NEW DIMMING CABINET "DP" IN ALTERNATE PACKAGE 1! RE: LIGHTING PLANS AND ONE-LINE DIAGRAM
(EXISTING) LA-34
(NEW) LA-43
LC-83
LC-31.33.38
LC-32.34.36
LC-26.28.30
LC-25.27.29
LC-35
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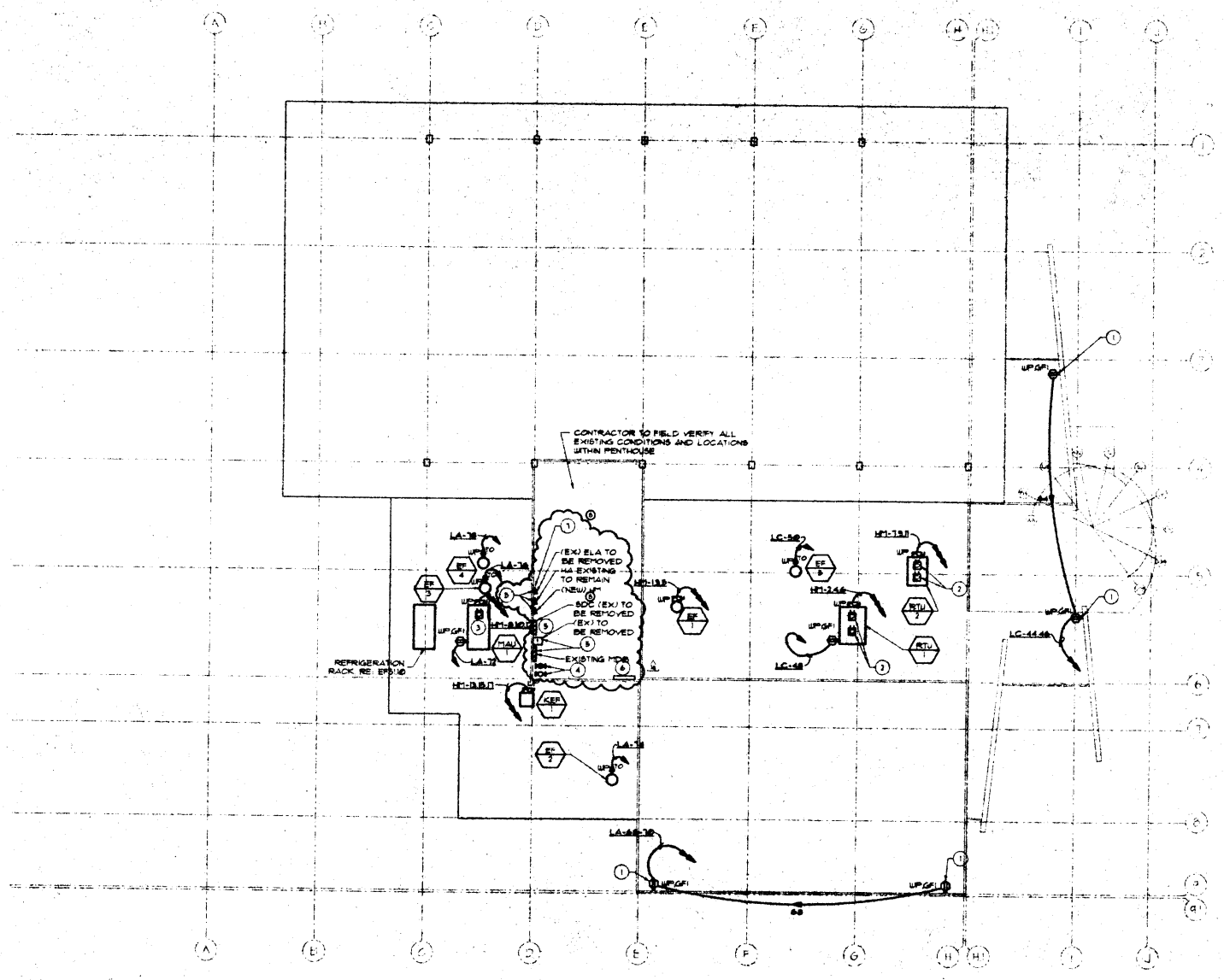
CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATIONS WITHIN PENTHOUSE
(EX) ELA TO BE REMOVED HA EXISTING TO REMAIN (NEW)
SCE (EX) TO BE REMOVED
(EX) TO BE REMOVED
EXISTING TO
REFRIGERATION RACK RE EP5.10
UP GF
LA-3B
LA-3A
LA-3
LA-4A-3B
HP1-13.0
HP1-3.4A
HP1-9.8.0
LC-54.0
LC-4B
LC-44.4B
RTU 1
RTU 2
RTU 3
RTU 4
RTU 5
RTU 6
RTU 7
RTU 8
RTU 9
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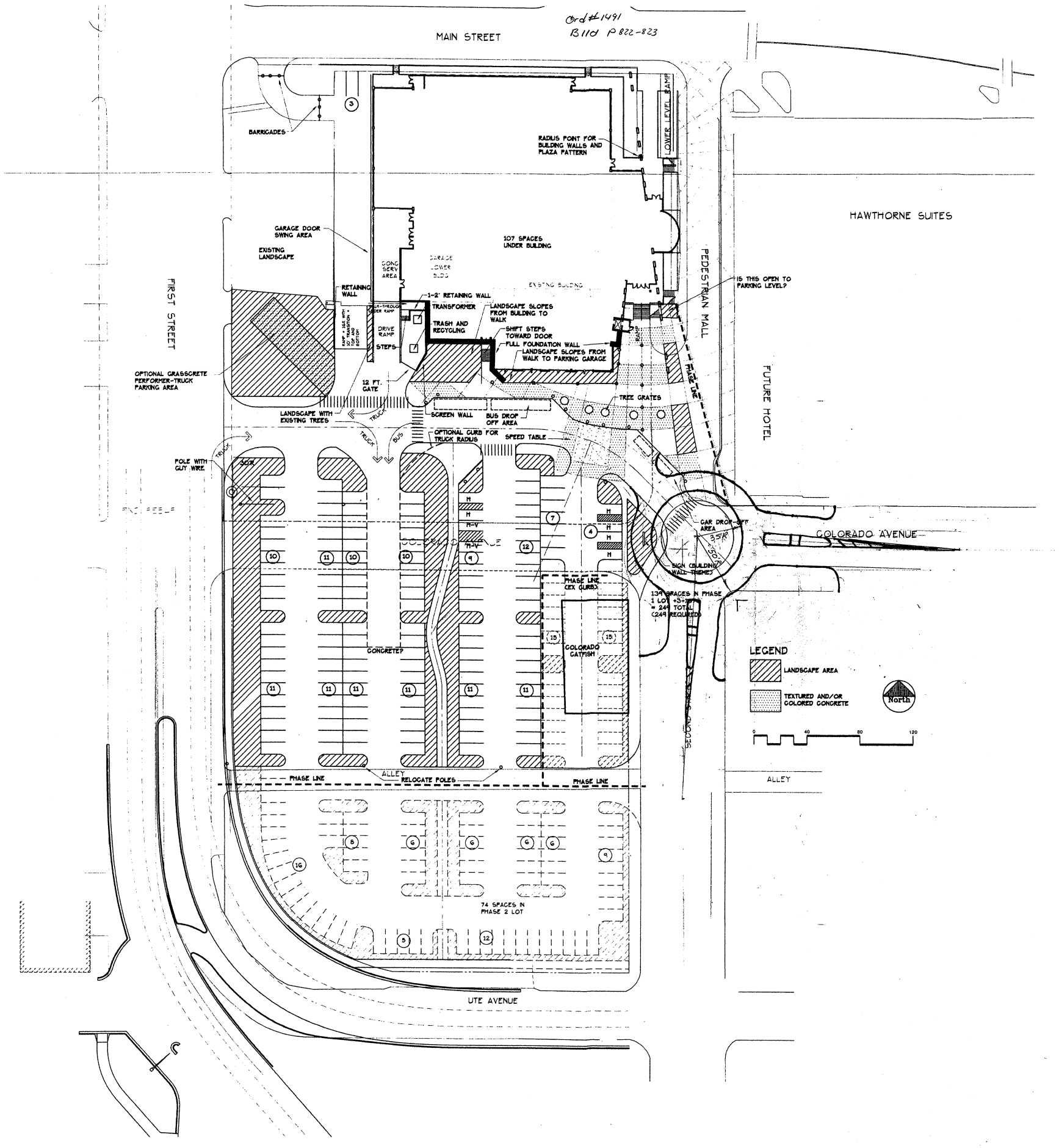
RTU

Ord #1491
Bild P 822-823



PREFERRED SITE PLAN

CITY OF GRAND JUNCTION COMMUNITY DEVELOPMENT

APPROVED BY TITLE DATE

TWO RIVERS CONVENTION CENTER

CITY OF GRAND JUNCTION

DRAWN BY MH
CHECKED BY TC
JOB NO. 0001
DATE 12-07-00
REVISIONS

DRAWING NO.
0001-12-07-00-1

SHEET NO. 1 OF 1

STATUS
- ○ DRAFT
- ○ PRELIMINARY
- ○ BID
- ○ CONSTRUCTION
- ○ AS BUILT

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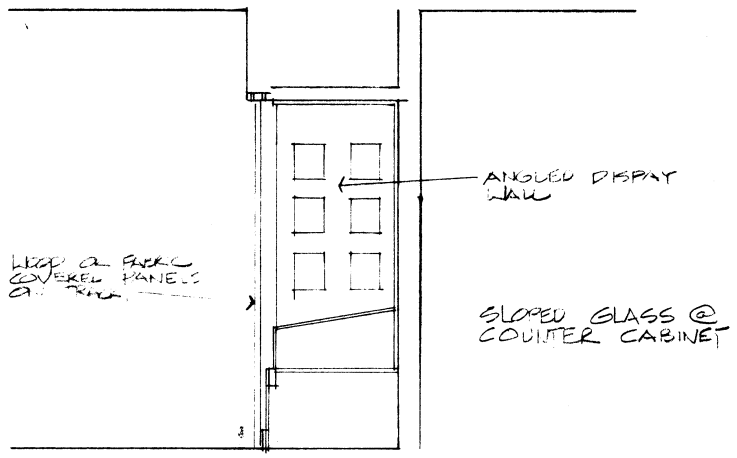
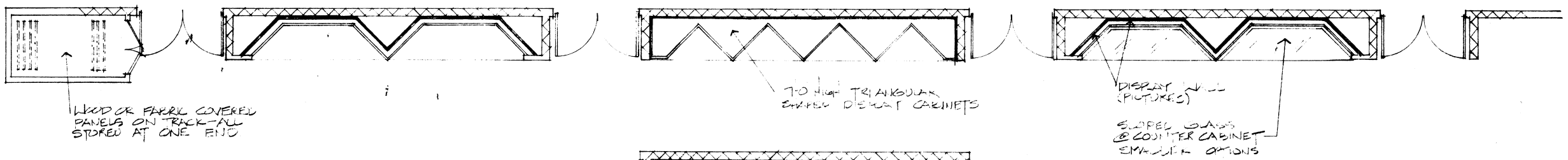
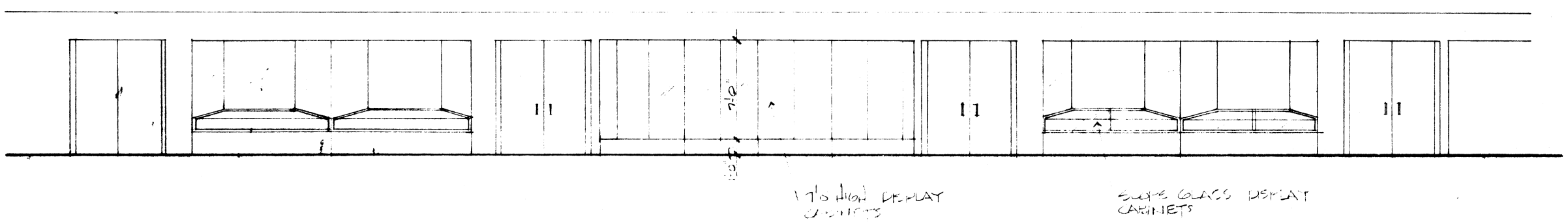


SECTION at DISPLAY WALL
¼"= 1'-0"



PLAN at DISPLAY WALL
¼"= 1'-0"



ELEVATION at DISPLAY WALL
¼"= 1'-0"

HALL OF FAME STUDY NO. 3

SINK COMBS DETHLEFS
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TWO RIVERS CONVENTION CENTER

OPERABLE PARTITIONS AND CEILING REPLACEMENT

SCD Project Number 0706

100% CONSTRUCTION DOCUMENTS

January 23, 2008

WRONG STRUCTURAL

PROJECT TEAM

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SHEET INDEX

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A3.10	SECTIONS AND DETAILS

STRUCTURAL:

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S2	FRAMING PLANS
S3	DETAILS
S4	DETAILS

ELECTRICAL:

E1.00	ELECTRICAL ONE LINE DIAGRAM & LEGEND
E1.10	LIGHTING & CONTROL SCHEDULES
E2.00	ELECTRICAL PLAN
E3.00	ELECTRICAL SPECIFICATIONS
E4.00	ELECTRICAL PLAN ADD ALT. #3

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE AND ALL FEDERAL, STATE, AND LOCAL CODES AND AGENCIES HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND RESPECTIVE SUBCONTRACTORS TO BUILD TO SATISFY THESE CODES AND CALL FOR ALL NECESSARY INSPECTIONS.
2. REFER TO PROJECT SPECIFICATIONS FOR FURTHER DEFINITION OF THE WORK.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE SITE AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. CONTACT ARCHITECT FOR CLARIFICATION IN THE EVENT OF ANY DISCREPANCY IN THE CONSTRUCTION DOCUMENTS OR ANY AMBIGUITY OF DESIGN INTENT.
4. DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OR DETAILS OF SPECIFIC MANUFACTURERS. DIMENSIONS AND DETAILS FOR THE SPECIFIC PRODUCTS MAY CHANGE BEFORE ACTUAL INCORPORATION INTO THE WORK, AND PRODUCTS PROVIDED BY OTHER MANUFACTURERS MAY ALSO BE ACCEPTABLE. THEREFORE, INSTALLATION DETAILS AND DIMENSIONS MAY DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK AND IS RESPONSIBLE FOR ACCOMMODATING ANY CHANGES TO OTHER MATERIALS OR PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.
5. THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY; ITEMS SHOWN IN ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OF WORK OR MORE EXPENSIVE ALTERNATIVE.
6. WALL, CEILING AND FLOOR FINISHES ARE TO BE PROVIDED IN EVERY ROOM UNLESS THE DRAWINGS OR THE ROOM FINISH SCHEDULE SPECIFICALLY INDICATE THAT A ROOM IS TO BE 'UNFINISHED' OR EXPOSED W/O FINISH. IF ROOM FINISHES ARE NOT SPECIFICALLY INDICATED, OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING.
7. THE CONTRACTOR SHALL PROTECT ALL EXPOSED MATERIALS UNTIL THEY RECEIVE FINAL FINISH. THE CONTRACTOR SHALL MAINTAIN PROTECTION UNTIL RECEIPT OF WRITTEN ACCEPTANCE OF FINAL COMPLETION.
8. DO NOT SCALE DRAWINGS.
9. PAINT OR SEAL ALL EXPOSED STEEL, CONDUIT, DUCTWORK, PIPING, ETC., IN ALL FINISHED SPACES WITH EXPOSED CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
10. PAINT OR SEAL ALL EXPOSED METAL AND WOOD ON EXTERIOR OF BUILDING UNLESS OTHERWISE NOTED, INCLUDING BUT NOT LIMITED TO CONDUIT, PIPING, GAS PIPING, FLASHING, MECH. FLUES AND DUCTS, LINTELS, HOLLOW METAL FRAMING AND DOORS, STEEL, AND MECH. EQUIPMENT.
11. ALL WOOD BLOCKING SHALL BE FIRE RESISTANT TREATED WOOD.

ABBREVIATIONS

AC	ACOUSTICAL	DISCONT	DISCONTINUOUS
ACM	ALUMINUM COMPOSITE MATERIAL	DN	DOWN
ACT	ACOUSTICAL TILE	DR	DOOR
ADJ	ADJUSTABLE	DS	DOWNSPOUT
AFF	ABOVE FINISHED FLOOR	DTL	DETAIL
ALUM	ALUMINUM	DWG	DRAWING
ALT	ALTERNATE	(E)	EXISTING
AB	ANCHOR BOLT	EA	EACH
APROX	APPROXIMATE	ELEC	ELECTRIC
ARCH	ARCHITECTURAL	ELEV	ELEVATOR,ELEVATIONS(S)
ASPH	ASPHALT	EQ	EQUAL/EQUIVALENT
AD	AREA DRAIN	EQUIP	EQUIPMENT
@	AT	EWC	ELEC WATER COOLER
BD	BOARD	EX	EXPOSED MATERIAL
BITUM	BITUMINOUS	EXH	EXHAUST
BLDG	BUILDING	EXIST	EXISTING
BLK	BLOCK	EXP	EXPANSION
BM	BEAM	EXP JT	EXPANSION JOINT
BLKG	BLOCKING	FD	FLOOR DRAIN
BOT	BOTTOM	FDN	FOUNDATION
BR	BULLET RESISTANT	FEC	FIRE EXTINGUISHER CAB
CAB	CABINET	FG	FINISH GRADE
CB	CATCH BASIN	FH	FIRE HYDRANT
CI	CAST IRON	FHC	FIRE HOSE CABINET
CIP	CAST IN PLACE	FIN	FINISH
CJ	CONTROL JOINT	FIXT	FIXTURE
CL	CENTER LINE	FL	FLOORING
CLG	CEILING	FLEX	FLEXIBLE
COL	COLUMN	FLUOR	FLUORESCENT
CONC	CONCRETE	FR	FRAME
CONC BLK	CONCRETE BLOCK	FO	FACE OF
CONST	CONSTRUCTION	FS	FLOOR SINK
CONT	CONTINUOUS	FT	FOOT/FEET
CP	CEMENT PLASTER	FTG	FOOTING
CPT	CARPET	FUT	FUTURE
CT	CERAMIC TILE	FV	FIELD VERIFY
DF	DRINKING FOUNTAIN	GA	GAUGE
DIA	DIAMETER	GALV	GALVANIZED
DIM	DIMENSION	GEN	GENERATOR

GI	GALVANIZED IRON	MIN	MINIMUM
GL	GLASS	MISC	MISCELLANEOUS
GYP BD	GYPSUM BOARD	MO	MASONRY OPENING
GB	GYPSUM BOARD	MS	METAL SCREEN
H.A.S.	HEADED ANCHOR STUD	MTD	MOUNTED
HB	HOSE BIB	MTL	METAL
HC	HOLLOW CORE	N	NORTH
HDWR	HARDWARE	NIC	NOT IN CONTRACT
HM	HOLLOW METAL	NO	NUMBER
HORIZ	HORIZONTAL	NTS	NOT TO SCALE
HPT	HIGH POINT	OC	ON CENTER
HR	HOUR	OD	OUTSIDE DIAMETER
HT	HEIGHT	OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
HTG	HEATING		
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	OFF	OFFICE
		OH	OVERHEAD
HDWD	HARDWOOD	OPG	OPENING
ID	INSIDE DIAMETER	OPP	OPPOSITE
INSUL	INSULATION	PL	PLATE
INT	INTERIOR	PLAM	PLASTIC LAMINATE
IRGB	IMPACT RESISTANT GYPSUM BOARD	PLAS	PLASTER
		PNL	PANEL(BOARD)
JB	JUNCTION BOX	PR	PAIR
JAN	JANITOR	PT	POINT
JT	JOINT	PIP	POURED IN PLACE
KPL	KICKPLATE	PTD	PAINTED
KD	KNOCK DOWN	PWR	POWER
L	LENGTH	Q	QUADRANT
LAM	LAMINATE	QT	QUARRY TILE
LAV	LAVATORY	R	RADIUS/RISER
LH	LEFT HAND	RA	RETURN AIR
LL	LIVE LOAD	RD	ROOF DRAIN
LP	LIGHTING PANEL	REC	RECEPTACLE
LT	LIGHT	REF	REFERENCE
LTG	LIGHTING	REINF	REINFORCING
LVR	LOUVER	REQ	REQUIRED
MAT	MATERIAL	RESIL	RESILIENT
MAX	MAXIMUM	REV	REVISION/REVISE
MECH	MECHANICAL	RM	ROOM
MFR	MANUFACTURER		
MH	MANHOLE		

RO	ROUGH OPENING	TV	TELEVISION
ROW	RIGHT OF WAY	TYP	TYPICAL
RTG	RATING	UL	UNDERWRITERS LAB
SAN	SANITARY	UON	UNLESS OTHERWISE NOTED
S.A.T.	SUSPENDED ACOUSTIC TILE	UR	URINAL
		VB	VAPOR BARRIER
SB	SOUND ATTENUATION BLANKETS	VCT	VINYL COMP TILE
		VENT	VENTILATION
SC	SOLID CORE	VERT	VERTICAL
SCHD	SCHEDULE	VEST	VESTIBULE
SD	SMOKE DETECTOR	VWC	VINYL WALL COVERING
SECT	SECTION	W	WIDTH
SIM	SIMILAR	W/	WITH
SML	SHEET METAL	WC	WATER CLOSET
SPEC	SPECIFICATIONS	WD	WOOD
SS	STAINLESS STEEL	WDW	WINDOW
SSCG	STAINLESS STEEL CORNER GUARD	WFC	WATERPROOF FLOOR COVERING
		WRGB	WATER-RESISTANT GYPSUM BOARD
STD	STANDARD	WGL	WIRE GLASS
STL	STEEL	WH	WATER HEATER
STOR	STORAGE	W/O	WITHOUT
STR	STRUCTURAL	WP	WORK POINT
SUSP	SUSPENDED	WT	WEIGHT
SYM	SYMMETRICAL	WWF	WELDED WIRE FABRIC
T	TREAD		
T+B	TOP AND BOTTOM		
TC	TELEPHONE CLOSET		
TEL	TELEPHONE		
TEMP	TEMPERED		
THER	THERMOSTAT		
THR	THRESHOLD		
TO	TOP OF		
TOB	TOP OF BEAM		
TOC	TOP OF CONCRETE		
TOF	TOP OF FLOOR		
TOM	TOP OF MASONRY		
TOS	TOP OF STEEL		
TOW	TOP OF WALL		
TRANS	TRANSFER		

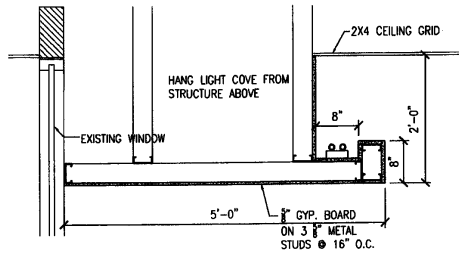
LEGEND

- WINDOW NUMBER (W)
- DOOR NUMBER (11.44A)
- ROOM IDENTIFICATION — ROOM NAME — ROOM NUMBER
- CEILING TAG (8'-0" ACT) — CEILING MATERIAL — CEILING HEIGHT
- ELEVATION TAGS — 0'-0" FLOOR ELEVATION — MAIN LEVEL 0'-0" FLOOR NAME / FLOOR ELEVATION
- FINISH TAG (P 1) — FINISH TYPE — FINISH #
- WALL TYPE (R1 B1-F-1-4 1/2) — SEE LEGEND ON SHEET A6.00
- TOILET ACCESSORIES TAG (TS-44) — SEE LEGEND ON SHEET A5.00
- EQUIPMENT TAG (EQ-69) — SEE SCHEDULE ON SHEET A0.10
- TOILET / SHOWER GROUP TAG (TG-W4) — SEE LEGEND ON SHEET A5.00
- KEY NOTE (1)
- ENLARGED PLAN / DETAIL (2 / A4.30) — DRAWING NUMBER — SHEET NUMBER WHERE ENLARGED DRAWING APPEARS
- GRID BUBBLES (NW 4) — QUADRANT - (NORTH WEST) — GRID NUMBER
- DETAIL BUBBLE IDENTIFICATION (1 / A4.30)
- INTERIOR ELEVATION KEY (2 / A5.22) — *NUMERAL ORIENTATION INDICATES ROOM NORTH — DRAWING NUMBER — SHEET NUMBER — ELEVATION DRAWN
- MILLWORK ELEVATION KEY (3 / A5.60) — DRAWING NUMBER — SHEET NUMBER — ELEVATION DRAWN
- EXTERIOR ELEVATION KEY (4 / A3.15)
- WALL SECTION (6 / A3.54) — DIRECTION OF VIEW
- BUILDING SECTION (7 / A3.21) — DIRECTION OF VIEW

MATERIAL SYMBOLS

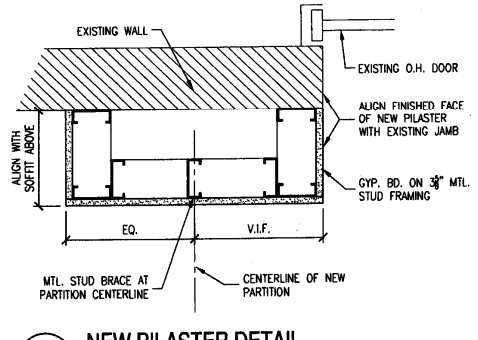
- CONCRETE BLOCK
- CAST IN PLACE CONCRETE
- PRECAST CONCRETE
- CAST STONE
- COMPACTED FILL
- UNDISTURBED EARTH
- GRAVEL
- BATT INSULATION/ SOUND ATTENUATION BLANKETS
- WOOD BLOCKING
- FINISHED WOOD
- PLYWOOD
- MEDIUM DENSITY FIBERBOARD (MDF)
- STEEL (LARGE SCALE)
- ALUMINUM (LARGE SCALE)
- GYPSUM BOARD (LARGE SCALE)
- RIGID INSULATION

SINK COMBS DETHLEFS

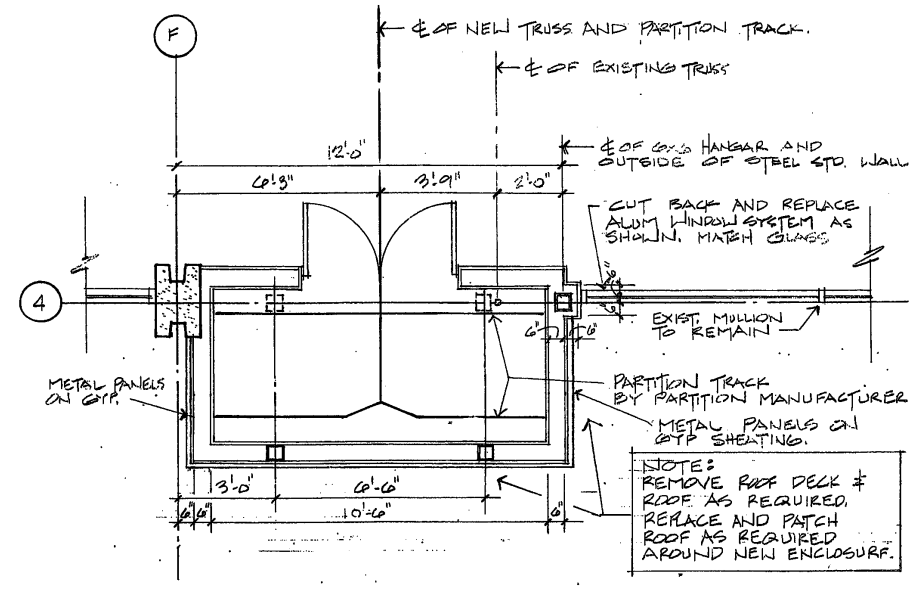


7 COVE DETAIL
ADD ALTERNATE — SCALE: 3/4" = 1'-0"

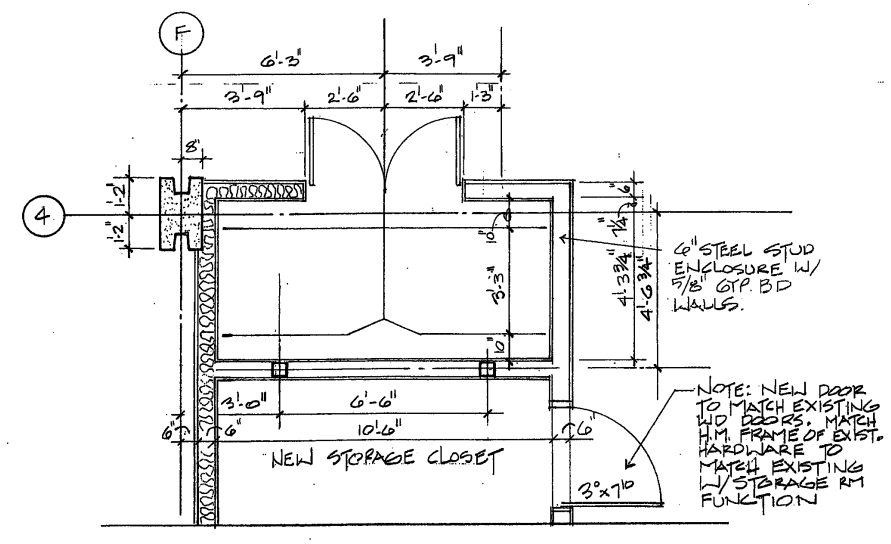
6 NEW PILASTER DETAIL
SCALE: 1 1/2" = 1'-0"



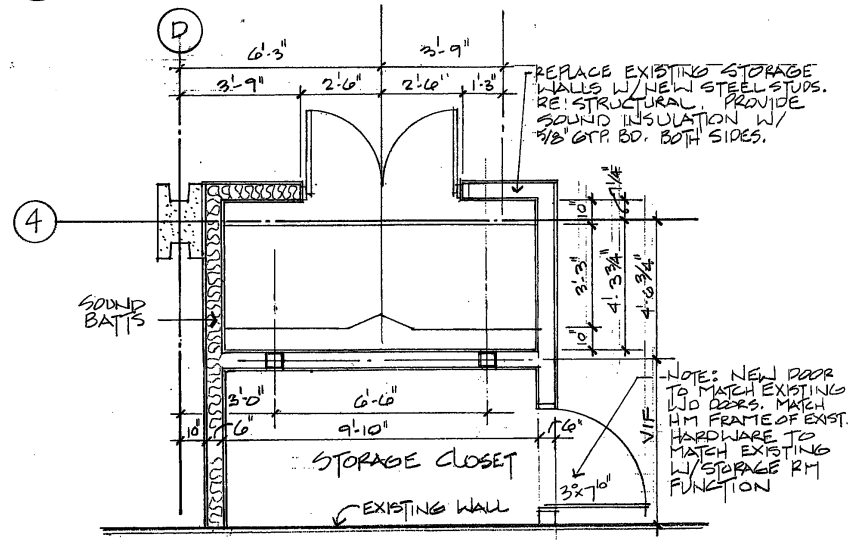
5 NEW PILASTER DETAIL
SCALE: 1 1/2" = 1'-0"



4B NEW PARTITION CLOSET - HIGH
DEDUCTIVE ALTERNATE — SCALE: 3/8" = 1'-0"



4A NEW PARTITION CLOSET - LOW
DEDUCTIVE ALTERNATE — SCALE: 3/8" = 1'-0"



3 RECONSTRUCTED PARTITION CLOSET - LOW
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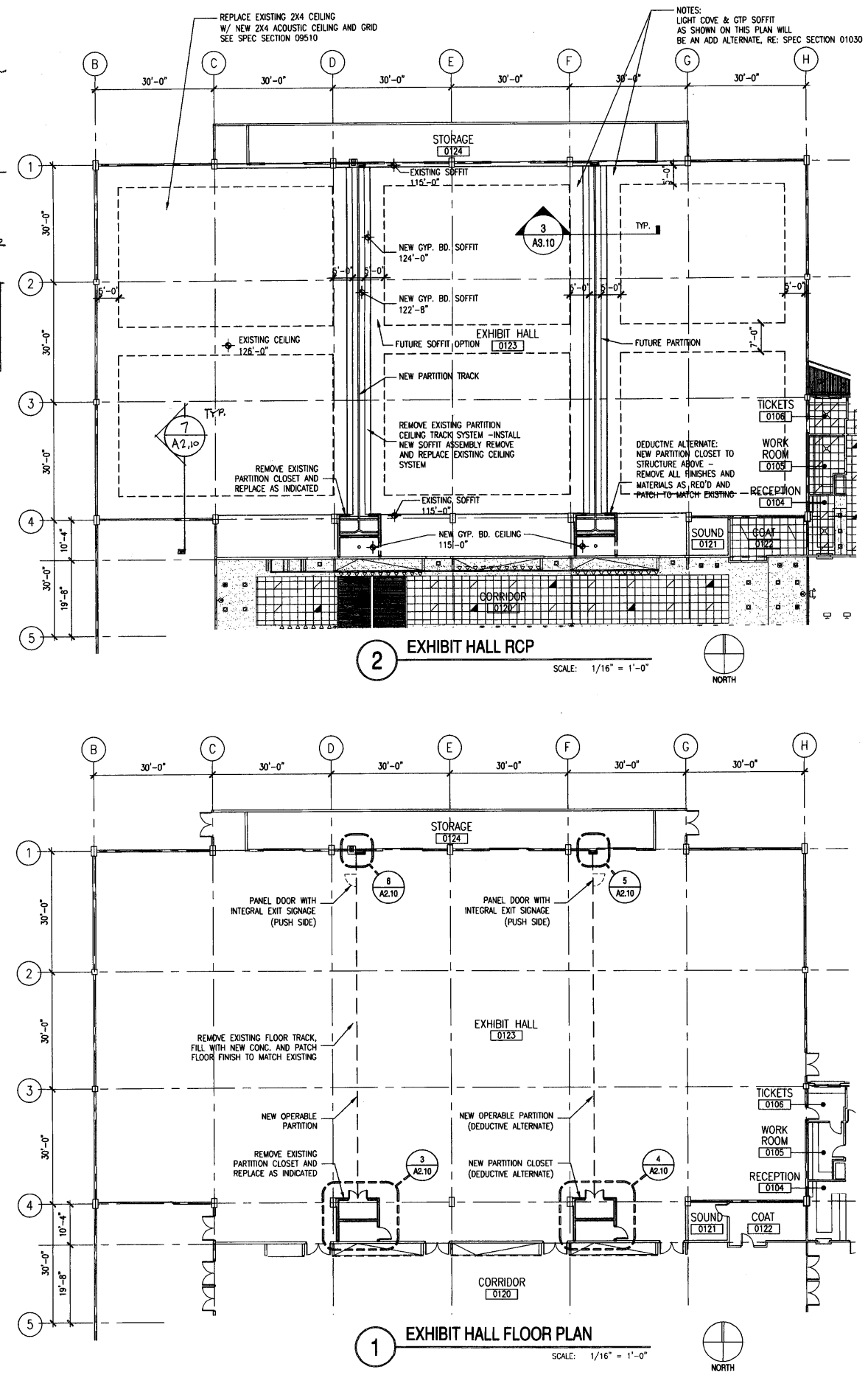

2 EXHIBIT HALL RCP
SCALE: 1/16" = 1'-0"

NORTH

1 EXHIBIT HALL FLOOR PLAN
SCALE: 1/16" = 1'-0"

NORTH

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Issues/Revisions:	Date:
90% Construction Docs	01-04-08
100% Construction Docs	01-23-08

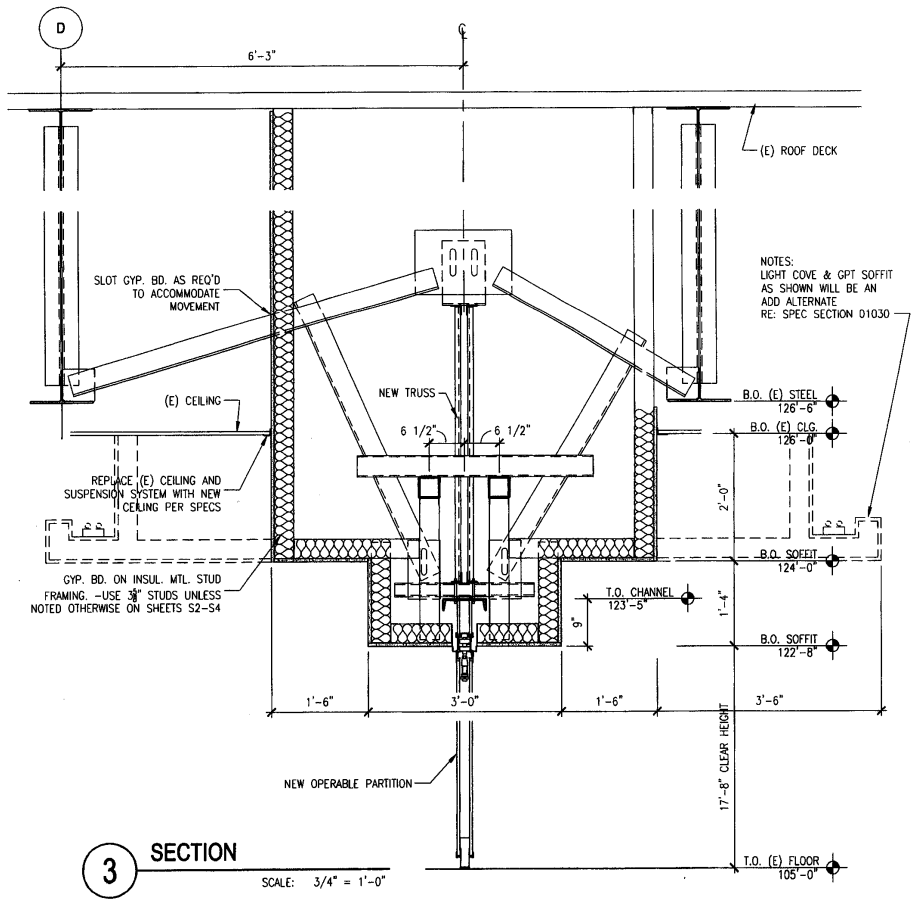
Two Rivers Convention Center
Exhibit Hall Partitions
Grand Junction, CO

SCD Project No.: 0706

PLAN DETAILS

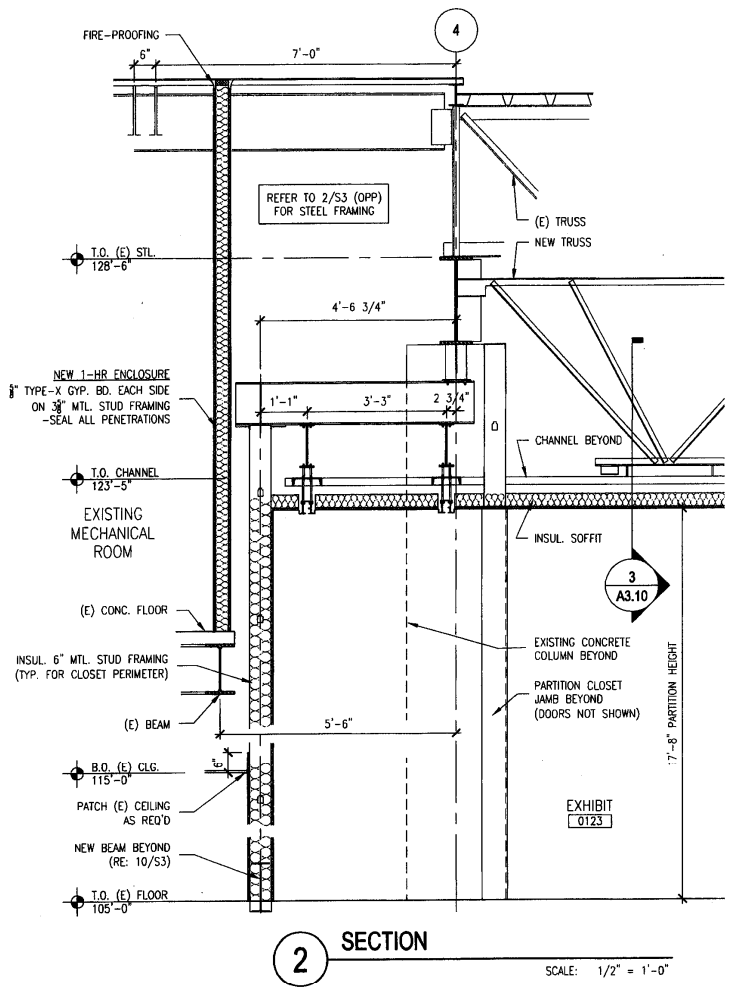
Drawn by:
Checked by:

A2.10



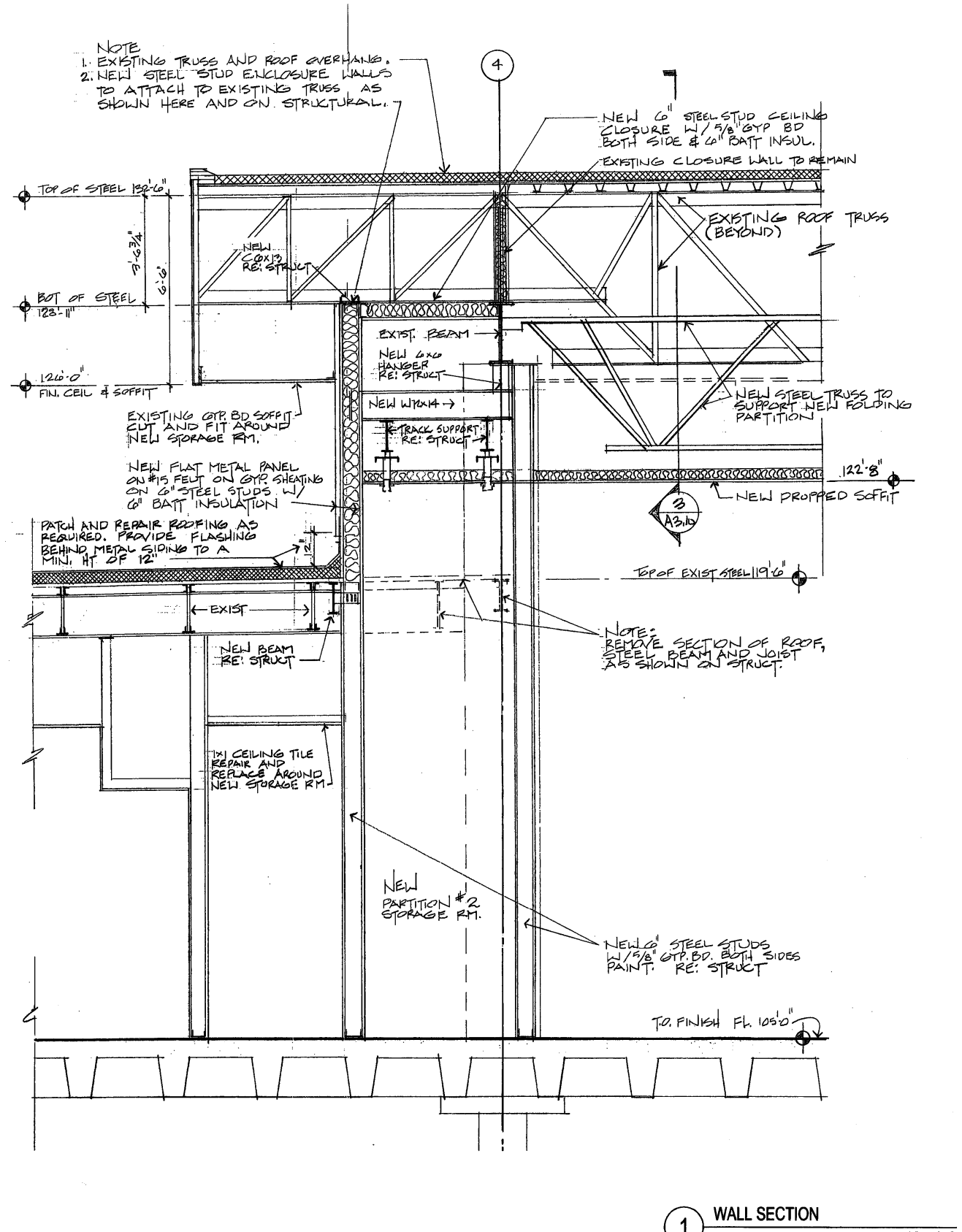
3 SECTION

SCALE: 3/4" = 1'-0"



2 SECTION

SCALE: 1/2" = 1'-0"



1 WALL SECTION

SCALE: 1/2" = 1'-0"

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Two Rivers Convention Center

Exhibit Hall Partitions

Grand Junction, CO

SCD Project No.: 0706

SECTION DETAILS

Drawn by:

Checked by:

A3.10

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ABBREVIATIONS

/	Per
@	At
AB	Anchor Bolt
ADDNL	Additional
AFF	Above Finished Floor
ALT	Alternate
ALUM	Aluminum
APA	American Plywood Association
APPROX	Approximate
ARCH	Architect or Architectural
BAL	Balance
BD	Board
BLDG	Building
BLKG	Blocking
BM	Beam
BN	Boundary Nail
BO	Bottom Of
BOT or B	Bottom
BOS	Bottom Of Steel
BRG	Bearing
BSMT	Basement
BTWN	Between
CC	Center to Center
CG	Center of Gravity
CIP	Cast-In-Place
CJ	Control Joint
CJP	Complete Joint Penetration
CL	Centerline
CLG	Ceiling
CLR	Clear
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continue or Continuous
CONTR	Contractor
COORD	Coordinate
CSJ	Construction Joint
CTR(D)	Center(ed)
d	Penny
DAS	Deformed Anchor Stud
DBL	Double
DIA or ø	Diameter
DIAG	Diagonal
DIM	Dimension
DL	Dead Load
DN	Down
DO	Ditto
DP	Drilled Pier or Deep
DT	Precast Double Tee
DTL(S)	Detail(s)
DWG(S)	Drawing(s)
DWL(S)	Dowel(s)
(E) or EXIST	Existing
EA	Each
EC	Epoxy Coated
EE	Each End
EF	Each Face
EJ	Expansion Joint
EL	Elevation
ELEV	Elevator
EMBED	Embedded
EN	Edge Nail
ENGR	Engineer
EQ	Equal
EQ SP	Equally Spaced
EQUIP	Equipment
ES	Each Side
EW	Each Way
E-W	East-West
EXP ANCH	Expansion Anchor
EXP	Expansion
EXT	Exterior

FAB	Fabricate
FF	Finished Floor
FIN	Finish(ed)
FLG	Flange
FLR	Floor
FND	Foundation
FO	Face Of
FP	Full Penetration or Fire Proofing
FRAM	Framing
FS	Far Side
FT	Foot or Feet
FTG	Footing
FV	Field Verify
GA	Gage or Gauge
GALV	Galvanized
GL	Glu-lam
GR	Grade
GR BM	Grade Beam
HDAB	Headed Anchor Bolt
HD	Headed or Holdown
HDAS	Headed Anchor Stud
HDG	Hot Dipped Galvanized
HK	Hook
HORIZ	Horizontal
HT	Height
HVAC	Heating-Ventilating and A/C
ID	Inside Diameter
I.F.	Inside Face
IN	Inch
INT	Interior
IT	Precast Inverted Tee Beam
JST	Joist
JT	Joint
k	Kip
L or LG	Length
LB(S)	Pound(s)
LB	Precast L-Shaped Beam
LCE	Compression Embedment
LCS	Compression Lap Splice
LDH	Hook Development Length
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC(S)	Location(s) or Locate
LONG	Longitudinal
LSL	Laminated Strand Lumber
LT	Light
LTE	Tension Embedment
LTS	Tension Lap Splice Length
LT WT	Lightweight
LVL	Level or Laminated Veneer Lumber
MACH	Machine
MACH RM	Machine Room
MAS	Masonry
MATL	Material
MAX	Maximum
MBS	Metal Building Supplier
MCJ	Masonry Control Joint
MECH	Mechanical
MEP	Mech/Elect/Plumb
MIN	Minimum
MISC	Miscellaneous
ML	Micro-Lam
mm	Millimeter
MNFR	Manufacturer
MO	Masonry Opening
MTL	Metal
N	North
NM	Non-Metallic
NS	Non-Shrink or Near Side
N-S	North-South
NIC	Not in Contract
NO or #	Number
NOM	Nominal
NTS	Not To Scale
NWC	Normal Weight Concrete

OAE	Or Approved Equivalent
OC	On Center
OD	Outside Diameter
O.F.	Outside Face
OH	Opposite Hand
OPNG	Opening
OPP	Opposite
OVS	Oversized
PAF	Powder Actuated Fastener
PC	Precast
PEN	Penetration
PERP	Perpendicular
PL	Plate (Steel)
PLF	Pounds Per Lineal Foot
PREFAB	Prefabricated
PRELIM	Preliminary
PS	Prestressed
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PT	Point
QTY	Quantity
RAD or R	Radius
RB	Precast Rectangular Beam
RC	Reinforced Concrete
RE: or REF	Refer to (Reference)
REINF	Reinforce(ing)(d)(ment)
RET	Return
REQD	Required
REQT(S)	Requirement(s)
RO	Rough Opening
ROF	Random Oriented Fiber
(S)	Salvaged
SC	Slip Critical
SCHED	Schedule
SECT	Section
SIM	Similar
SLH	Short Leg Horizontal
SLV	Short Leg Vertical
SOG	Slab on Grade
S	South
SP @	Space At
SP	Space(s)
SPECS	Specifications
SPRT	Support
SS	Stainless Steel
STD	Standard
STIFF	Stiffener
STL	Steel
STR	Structural
SW	Shearwall
SYM	Symmetrical
T&B	Top & Bottom
T	Top
THK	Thick or Thickness
TL	Total Load
T.O.	Top of
TOC	Top of Concrete
TOF	Top of Footing
TOM	Top of Masonry
TOPG	Topping
TOS	Top of Steel
TOW	Top of Wall
TRANS	Transverse
TYP	Typical
ULT	Ultimate
UNO	Unless Noted Otherwise
VERT	Vertical
VIF	Verify in Field
W/O	Without
W/	With
WD	Width or Wood
WF	Wide Flange
WP	Working Point or Waterproofing
WT	Weight
WWF	Welded Wire Fabric
WxH	Width x Height

LEGEND

SYMBOL:	DESCRIPTION:
X / X.X	= DETAIL SECTION CUT = SHEET DRAWN ON
X / X.X	= BUILDING SECTION = SHEET DRAWN ON
	= MOMENT CONNECTION
	= BRACING
(E)	= EXISTING
XXX'-XX"	= TOP OF CONCRETE ELEVATION SYMBOL
	= STEP
	= SLOPE
X	= KEY NOTE
	= BOX NOTE: DESIGNATES THE NOTE IS TYPICAL AND APPLIES TO ALL SIMILAR CONDITIONS
X	= DRAWING REVISION NUMBER
	= CURRENT REVISION CLOUD
	= STRUCTURAL MASONRY
XX.Xk	= MECHANICAL UNIT (XX.Xk = MECHANICAL UNIT WEIGHT IN KIPS INCLUDING HOUSEKEEPING PAD)

GENERAL NOTES

SECTION 1 – GENERAL REQUIREMENTS

1.0 DEFINITIONS:

A. ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

1.1.1 EXISTING STRUCTURES:

A. CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.
B. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT NOW KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION (DISCOVERY). CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES INCLUDE:
   – SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN.
   – DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS.
   – CONDITIONS OF INSTABILITY OR LACK OF SUPPORT.
   – ITEMS NOTED AS EXISTING ON THE DRAWINGS BUT NOT FOUND IN THE FIELD.
C. PREPARE DIMENSIONAL DRAWINGS OF ALL DISCOVERED ITEMS.
D. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
E. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.
F. SUBMIT A DIMENSIONED DRAWING OF ALL NEW OPENINGS THROUGH EXISTING STRUCTURE, AND SECURE APPROVAL PRIOR TO CUTTING. DRAWING SHALL SHOW SIZE OF PROPOSED OPENING AND IT'S VERTICAL AND HORIZONTAL LOCATION.

1.1.2 USE OF DRAWINGS:

A. DO NOT SCALE DRAWINGS.
B. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, AND GENERAL NOTES,THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

1.1.3 TEMPORARY CONDITIONS:

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

1.1.4 SUBMITTALS AND SUBSTITUTIONS:

A. SUBMITTALS:
   1. IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN, INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR MAKING THE CHANGE.
   2. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS.
B. SUBSTITUTIONS: ARCHITECTS APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS.
C. NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.

1.1.5 OSHA STANDARDS:

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS.

THE CONTRACTOR SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, PLATES, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, ETC., AS WELL AS CLOSURES FOR OPENINGS.

ALL JOISTS REQUIRED BY OSHA TO BE BOLTED SHALL HAVE ERECTION BOLTS INSTALLED REGARDLESS OF FINAL CONNECTION SHOWN ON THE STRUCTURAL DRAWINGS.

WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY; THE CONTRACTOR SHALL ADD ALL ERECTION FRAMING AS MAY BE NECESSARY TO COMPLY WITH OSHA.

1.2.1 CONSTRUCTION ENGINEERING:

THE STRUCTURE DEFINED ON THE CONTRACT DOCUMENTS HAS BEEN DESIGNED ONLY FOR LOADS ANTICIPATED ON THE STRUCTURE DURING ITS SERVICE LIFE. PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK. SUCH ENGINEERING MAY INCLUDE, BUT IS NOT LIMITED TO:
– LAYOUT.
– ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION FOR STEEL, PRECAST CONCRETE, AND WOOD CONSTRUCTION.
– WELD PROCEDURES.
– SURVEYING TO VERIFY CONSTRUCTION TOLERANCES.
– EVALUATION OF TEMPORARY LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS DURING CONSTRUCTION.
– STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS.

REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS AND CONSTRUCTION ENGINEERING SUBMITTALS.

.3.1 COORDINATION:

A. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
B. COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, PROJECT SHOP DRAWINGS, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.
C. SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/360 OF THE FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE WALL.

1.3.2 SPECIAL INSPECTION:

SPECIAL INSPECTION SHALL BE PROVIDED PER IBC 2006 SECTION 109 AND CHAPTER 17. THE LIST BELOW IS A SUMMARY OF REQUIRED TESTS, REFER TO THE SPECIFICATIONS FOR DETAILED TESTING REQUIREMENTS.

STRUCTURAL STEEL:
– SHOP AND FIELD WELDING
– SHOP INSPECTION OF EMBED PLATE ASSEMBLIES
– HIGH STRENGTH BOLTING

1.3.3 DEFERRED SUBMITTALS: THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:

A. OPEN WEB STEEL JOISTS.

SECTION 3 – STRUCTURAL CONCRETE

3.1.1 ALL WORK SHALL CONFORM WITH ACI 301-99 UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.

3.1.2 DETAIL BARS IN ACCORDANCE WITH THE LATEST EDITIONS OF "ACI DETAILING MANUAL", PUBLICATION SP-66 WITH ADDED REQUIREMENTS OF THE PROJECT SPECIFICATION, AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.

3.2.1 REINFORCING:

A. REINFORCING: ASTM A615/A615M, GRADE 60 (GRADE 420) DEFORMED
B. WELDED AND FIELD BENT REINFORCING: ASTM A706/A706M, GRADE 60 (GRADE 420) DEFORMED
C. SPLICES:
   1. NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS
D. MISCELLANEOUS REINFORCING REQUIREMENTS
   1. PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
   2. MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
   3. NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4, LATEST EDITION.
   4. PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS. IF NOT NOTED, ADD 2-#5 BARS EACH SIDE OF ALL OPENINGS LARGER THAN 10" AND ALL REENTRANT CORNERS. EXTEND 2'-0" PAST EDGE OF OPENING.

3.2.2 STRUCTURAL CONCRETE MIX REQUIREMENTS:

TYPE	INTENDED USE	28 DAY STRENGTH PSI (NO)	CONC. TYPE LIGHTWEIGHT (LW) NORMAL WT. (NW)	MAX. W/C (MAXIMUM KEY) (ASR)	MIN. CEM. MTRL (#/CY) (MIN. FLY ASH %)	MAX. AGGR. (IN) (1)	SLUMP LIMITS (IN) (0" - 2")	TOTAL AIR LIMITS (%) (2)	CEMENT TYPE	RECOD ADMIXTURES (3)	OTHER REQUIREMENTS (4)
1	INTERIOR TOPPING SLABS AND SLABS-ON-DECK	3.5	NW	0.50	517	3/4	4	N	I or II	WRA	

NOTES:

(1) FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33: 3/4ø #67 AGGREGATE
(2) TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/– 1 1/2%. 'N' IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED.
(3) ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS:
AE = AIR-ENTRAINING ADMIXTURE. DO NOT USE ENTRAINED AIR FOR STEEL TROWELED FINISHED FLOORS.
WRA = WATER REDUCING ADMIXTURE.

3.3.1 PLACING REINFORCEMENT:

A. REINFORCEMENT PROTECTION:
SLABS OR WALLS NOT EXPOSED TO WEATHER OR EARTH. 1"
B. REINFORCING PLACING TOLERANCES: PER ACI 117.
C. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE FABRIC AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

SECTION 5 – METALS

5.1.1 CONNECTION DESIGN: PROVIDE CONNECTIONS AS SHOWN IN THE DRAWINGS. PROVIDE 7/8" DIAMETER A325 BOLTS AT ALL CONNECTIONS UNLESS OTHERWISE NOTED.

5.1.2 WELDING REQUIREMENTS:

A. WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE A.W.S. QUALIFICATION TESTS.
B. MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.
   1. WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE.
   2. WELD SIZES SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY AISC ASD-1989: J2.1.b AND J2.2.b.
C. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED.

5.2.1 STRUCTURAL STEEL MATERIAL: PROVIDE THE FOLLOWING UNLESS NOTED:

A. WIDE FLANGE AND WT SHAPES:
ASTM A992/A992M GRADE 50 (345) . . . . . Fy = 50 KSI
B. HOLLOW STRUCTURAL SECTION (HSS):
   1. ROUND ASTM A53/A53M TYPE E OR S GRADE 'B'. .Fy = 35 KSI
   2. RECTANGULAR ASTM A500 GRADE 'B' . . . . . .Fy = 46 KSI
C. S, M, HP SHAPES, ANGLES, CHANNELS, AND OTHER STEEL NOT IDENTIFIED: ASTM A36/A36M . . . . . .Fy = 36 KSI
D. PLATES AND BARS ASTM A36/A36M. . . . . .Fy = 36 KSI

5.2.2 CONNECTION MATERIAL:

A. ANCHOR RODS: ASTM F1554 GRADE 55 WELDABLE, PLAIN . . . .Fy = 55 KSI UNLESS NOTED OTHERWISE. PROVIDE HEAVY HEX HEADED RODS OR EQUIVALENT HEAVY HEX BEARING NUT TACK WELDED UNLESS NOTED OTHERWISE.
B. HIGH-STRENGTH BOLTS: ASTM A325 OR ASTM F1852 TENSION-CONTROL TYPE 1 HEAVY HEX, PLAIN UNLESS NOTED OTHERWISE. PROVIDE TENSION-CONTROL BOLTS WHEN EVER POSSIBLE.
C. WELDING ELECTRODES: AWS D1.1, E70 SERIES UNLESS NOTED OTHERWISE.
D. EXPANSION ANCHORS: WEDGE TYPE, REFER TO SPECIFICATIONS FOR MATERIAL, GRADE, AND FINISH. SUBMIT ICBO REPORT.
E. ADHESIVE ANCHORS: THREADED ROD ASTM A307, REFER TO SPECIFIATIONS FOR MATERIAL GRADE AND FINISH.
F. SLEEVE ANCHORS: SIMPSON SLEEVE ALL OR EQIVALENT, SUBMIT ICBO REPORT.
G. SCREW ANCHOR: SIMPSON TITEN HD OR EQUIVALENT, SUBMIT ICBO REPORT.

5.3.1 STRUCTURAL STEEL INSTALLATION:

A. ALL HIGH STRENGTH BOLTS USED IN COLUMN SPLICES, CONNECTIONS OF BEAMS AND GIRDERS TO COLUMNS, AND WHERE NOTED ON THE DRAWINGS AS TYPE "SC" OR OTHER TYPE FOLLOWED BY "T", SHALL BE TENSIONED TO THE VALUES OF TABLE J3.7 OF "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ASD," AISC 1989. OTHER HIGH-STRENGTH BOLTS MAY BE INSTALLED SNUG TIGHT AS DEFINED BY AISC.

5.3.2 STEEL JOISTS:

A. DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS, LATEST EDITION.
B. SIZE, TYPE, AND SPACING OF JOIST BRIDGING PER CURRENT SJI REQUIREMENTS. USE 'X' BRIDGING AT DISCONTINUOUS ENDS OF BRIDGING UNLESS OTHERWISE NOTED ON PLANS OR DETAILS.
C. REFER TO PLAN NOTES FOR ADDITIONAL JOIST DESIGN REQUIREMENTS INCLUDING UNBALANCED, CONCENTRATED, AND UPLIFT LOADS.

5.3.3 STRUCTURAL COLD FORMED METAL FRAMING:

D. STEEL SHUDS SHALL CONFORM TO SSMA STANDARDS. STUDS SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES:

6"	18 GAUGE	600S162-43	Ixx=2.316 IN4	Sxx=0.767 IN3	FY=33KSI
3 5/8"	18 GAUGE	362S162-43	Ixx=0.710 IN4	Sxx=0.389 IN3	FY=33KSI
6"	16 GAUGE	600T150-54	Ixx=2.374 IN4	Sxx=0.678 IN3	FY=50KSI
3 5/8	16 GAUGE	362T200-54	Ixx=0.832 IN4	Sxx=0.345 IN3	FY=50KSI

E. REFER TO DETAILS FOR CONNECTIONS AND OTHER REQUIREMENTS.
F. CONNECTIONS: WELDED TO DEVELOP FORCES NOTED USING AWS 70 SERIES ELECTRODES OR SCREWED WITH SELF-TAPPING SCREWS.
G. LOAD BEARING METAL FRAMING:
   3. MAXIMUM GAP BETWEEN WALL STUDS AND TRACK SHALL BE 1/16". SHIM AS REQUIRED TO ACHIEVE THIS CRITERIA.
   4. ALL BRACING, BRIDGING, SHEATHING AND CONNECTIONS SHALL BE COMPLETE PRIOR TO PLACING CONCRETE SLABS ABOVE.

DESIGN CRITERIA

1. CODES AND STANDARDS USED IN DESIGN:
   A. INTERNATIONAL BUILDING CODE 2006

SHEET INDEX

S1	GENERAL NOTES AND DESIGN CRITERIA
S2	PLANS
S3	DETAILS
S4	DETAILS

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DRAWN:	DNE
CHECKED:	GS, CBN
DATE:	01-04-08
REVISIONS:	

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SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
S1

PROJECT	TWO RIVERS CONVENTION CENTER
PROJECT MANAGER:	GARTH SCHOLL
DESIGNED BY:	GARTH SCHOLL
DRAWN BY:	DNE
PROJECT NO.:	14386.S.03
SHEET NO.:	14386_03-S1.dwg
EDITED BY:	garths
EDITED ON:	Fri, 04 Jan 2008 - 11:02am

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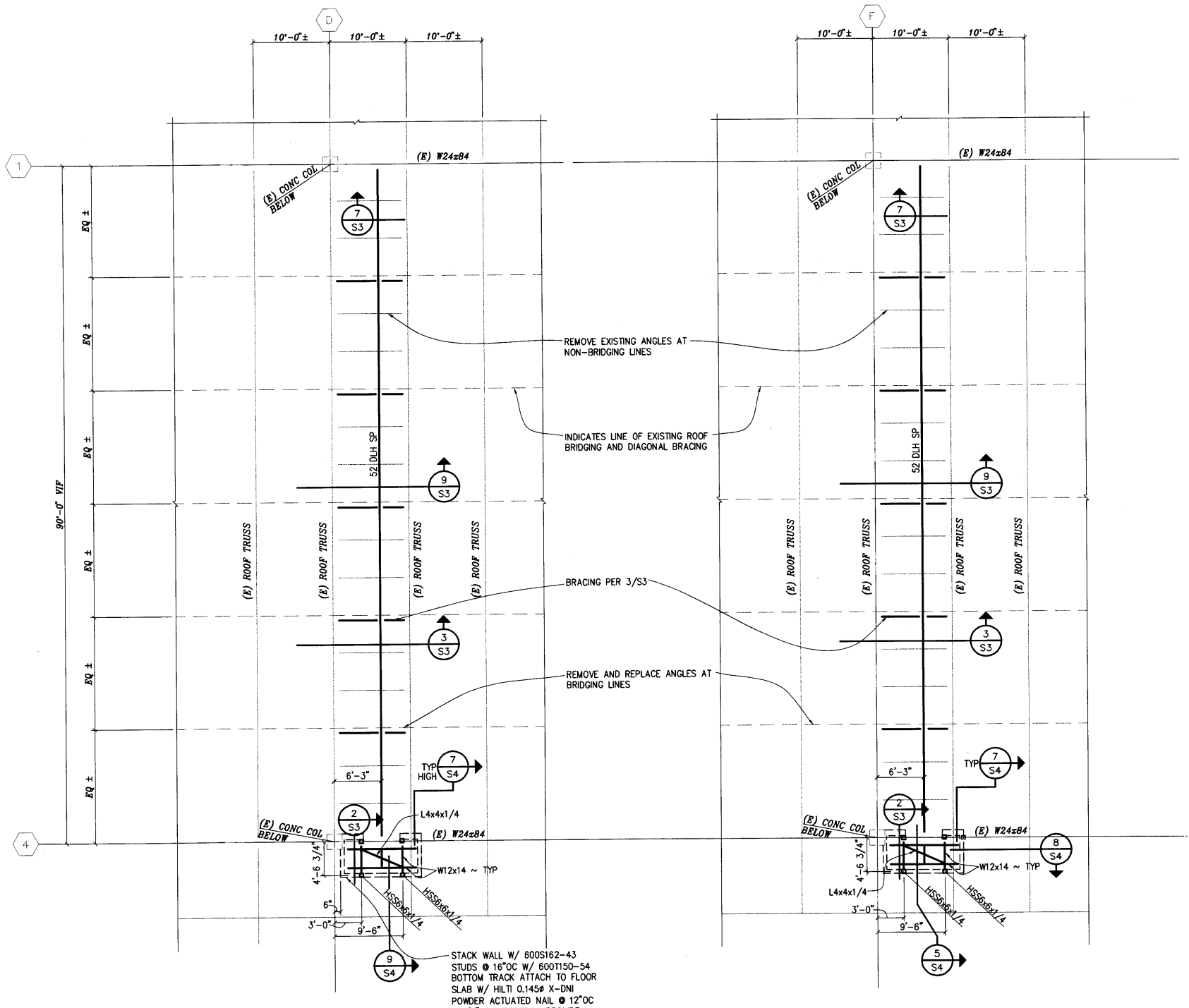

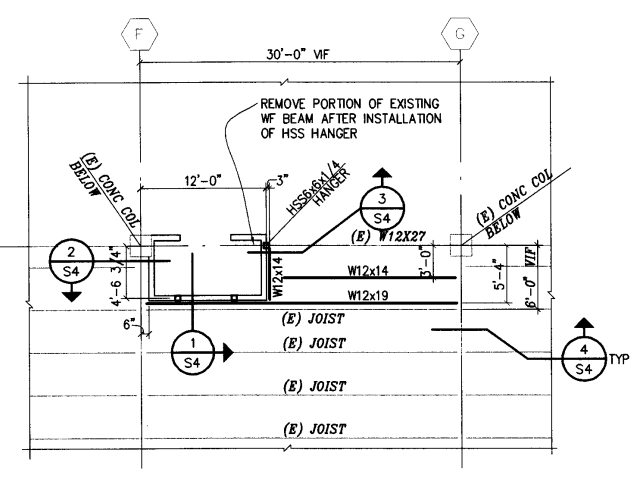

HIGH ROOF PARTIAL FRAMING PLAN

1/8"=1'-0

FRAMING PLAN NOTES:

A. GENERAL CONTRACTOR TO FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL OR FABRICATION.
B. STEEL JOIST
   1. 'DLH' SERIES JOISTS HAVE 5" DEEP BEARING SEATS.
   2. JOIST BEARING ELEVATION PER DETAIL 2/S3.
   3. JOISTS DESIGNATED '52DLHSP' INDICATES A 52 INCH DEEP JOIST WITH SPECIAL LOADING AND DEFLECTION REQUIREMENTS. RE: NOTES AND DETAIL 8/S3 FOR DESIGN CRITERIA OF SPECIAL JOISTS.
   4. JOISTS REQUIRE A BOTTOM CHORD EXTENSION PER DETAIL 2/S3.
   5. DO NOT CAMBER JOIST.
   6. JOIST BEARING SHALL HAVE STANDARD 6" BEARING LENGTH PER SJI SPECIFICATIONS.

HIGH ROOF PARTIAL FRAMING PLAN

1/8"=1'-0

1. OPERABLE PARTION NEAR GRID F AND ASSOCIATED FRAMING SHALL BE DEDUCT ALTERNATE 1.

LOW ROOF PARTIAL FRAMING PLAN

1/8"=1'-0

PROJECT:	TWO RIVERS CONVENTION CENTER
PROJECT MANAGER:	GARTH SCHOLL
DESIGNED BY:	GARTH SCHOLL
DRAWN BY:	DNE
PROJECT NO.:	14386.S.03
SHEET NO.:	14386_03-S2.dwg
EDITED BY:	garths
EDITED ON:	Fri, 04 Jan 2008 - 11:02am

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SHEET TITLE:
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SHEET NUMBER:
S2

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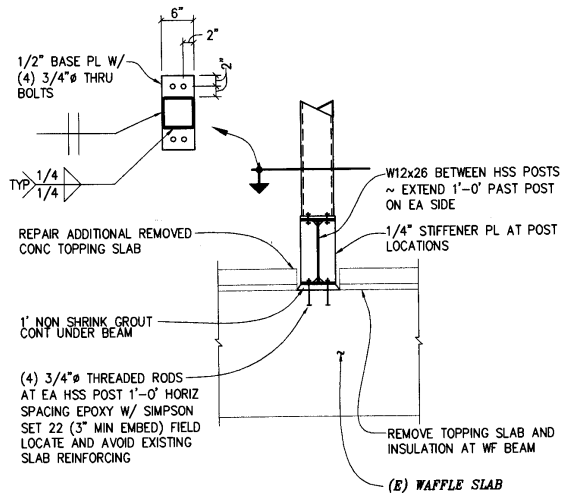
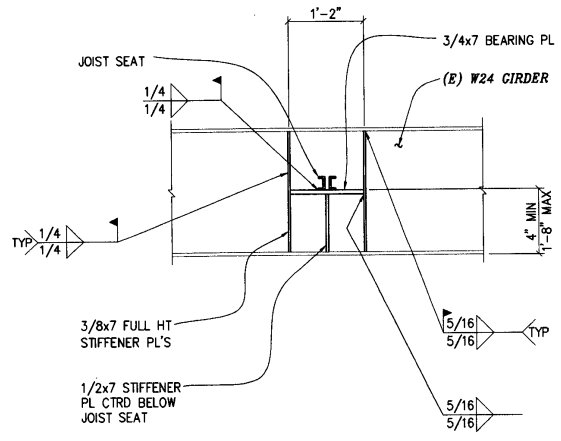
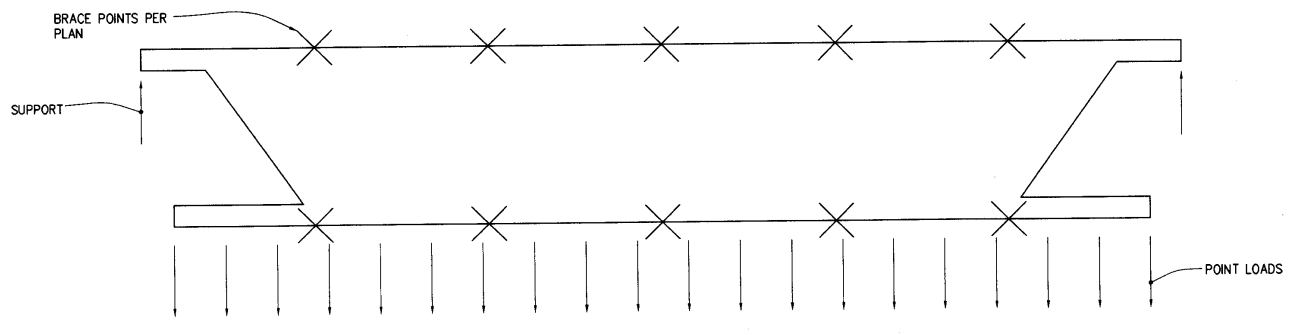


3/4"=1'-0" WF BEAM AT SLAB **10**



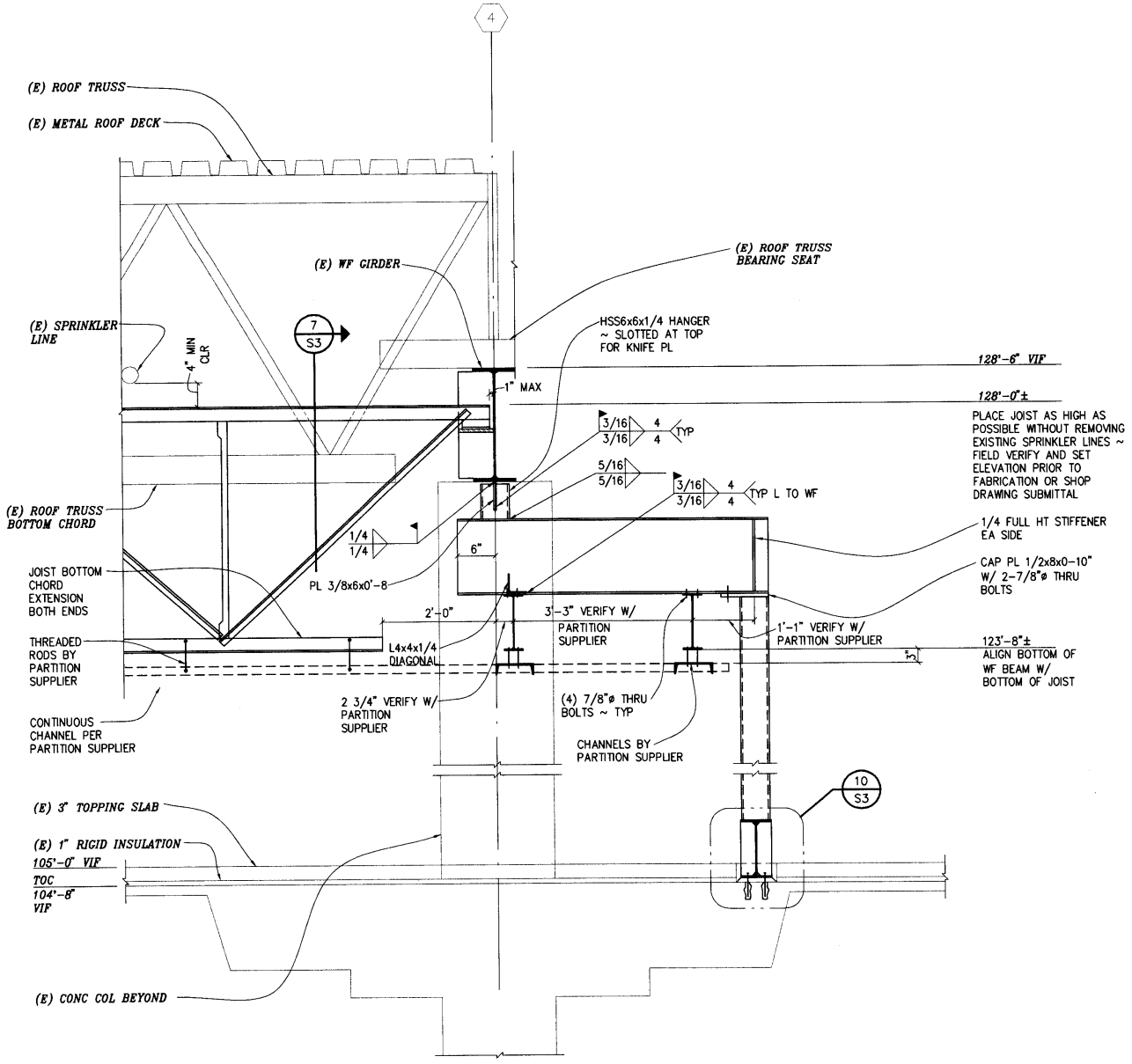
3/4"=1'-0" JOIST BEARING ELEVATION **7**



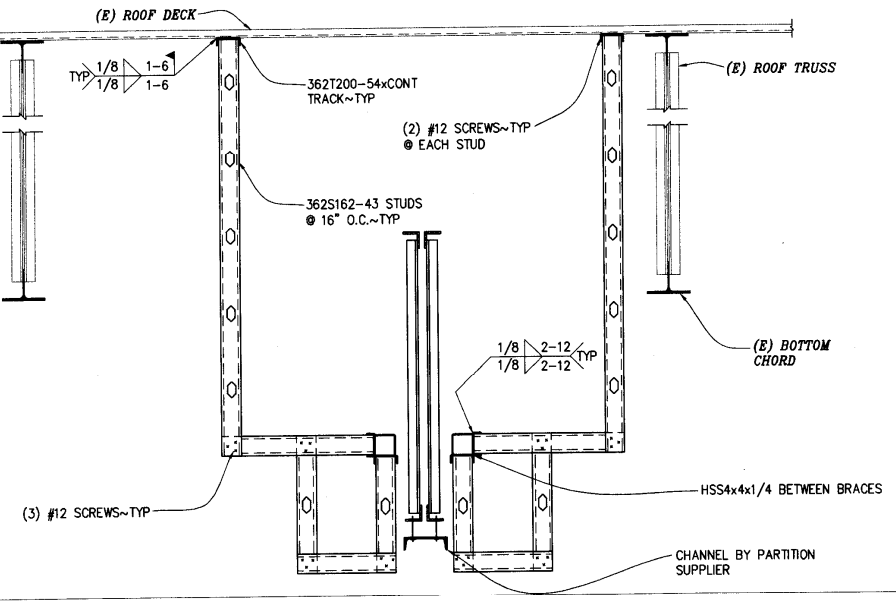
JOIST NOTES:

A. JOIST MANUFACTURER TO DESIGN JOIST FOR SELFWEIGHT PLUS EQUIVALENT UNIFORM LOAD OF 225 PLF APPLIED AS POINT LOADS TO THE BOTTOM CHORD.
B. JOIST MANUFACTURER TO DESIGN JOIST FOR MAXIMUM TOTAL LOAD DEFLECTION OF 1/2".
C. JOIST MANUFACTURER TO DESIGN JOIST FOR BOTTOM CHORD POINT LOADS SPACED PER PARTTION SUPPLIER. MAXIMUM POINT LOAD SPACING OF 8'-0". JOIST MANUFACTURER TO DESIGN BOTTOM CHORD FOR MAXIMUM POINT LOAD EQUAL TO MAX SPACING x UNIFORM LOAD WITHOUT ADDITIONAL WEB REINFORCEMENT.
D. JOIST MANUFACTURER TO DESIGN JOIST FOR UNBRACED TOP CHORD LENGTHS BETWEEN BRACED LOCATIONS AS INDICATED ON PLAN AND 3/S3.
E. JOIST MANUFACTURER TO DESIGN JOIST FOR BOLTED SPLICES AS REQUIRED FOR ERECTION. NUMBER OF SPLICES AND LOCATION PER GENERAL CONTRACTOR.
F. JOIST MANUFACTURER TO DESIGN JOIST FOR (2) ALIGNED 9/16" DIAMETER HOLES IN BOTTOM CHORD AT POINT LOAD LOCATIONS.

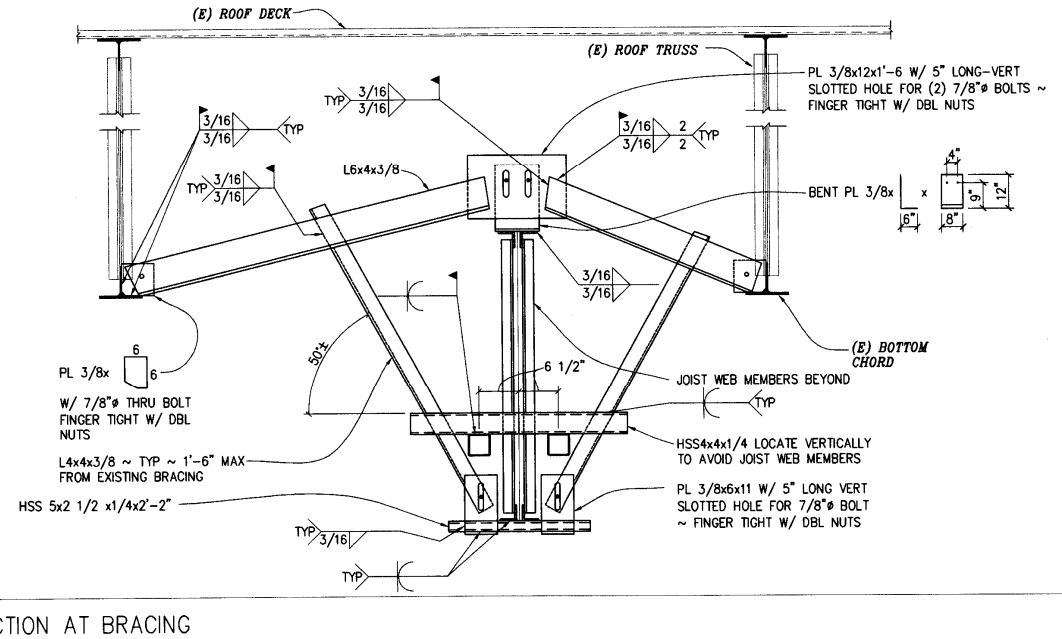
NO SCALE JOIST LOADING DIAGRAM AND REQUIREMENTS **8**



3/4"=1'-0" SECTION AT PARTITION STACK FRAMING **2**



3/4"=1'-0" SECTION AT STUD WALL **9**



3/4"=1'-0" SECTION AT BRACING **3**

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DRAWN:	DNE
CHECKED:	GS, CBN
DATE:	01-04-08
REVISIONS:	

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SHEET TITLE:
DETAILS

SHEET NUMBER:
S3

PROJECT:	TWO RIVERS CONVENTION CENTER
PROJECT MANAGER:	GARTH SCHOLL
DESIGNED BY:	GARTH SCHOLL
DRAWN BY:	DNE
PROJECT NO.:	14386.S.03
SHEET NO.:	14386_03-S3.dwg
EDITED BY:	garths
EDITED ON:	Fri, 04 Jan 2008 - 11:02am

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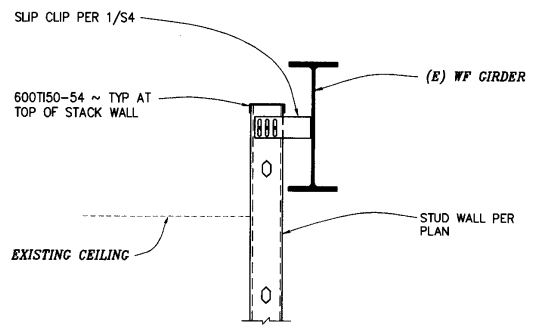

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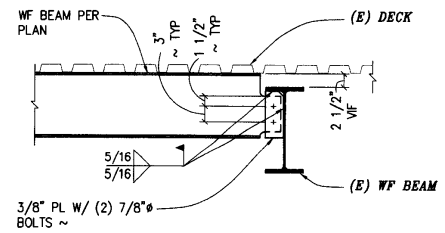
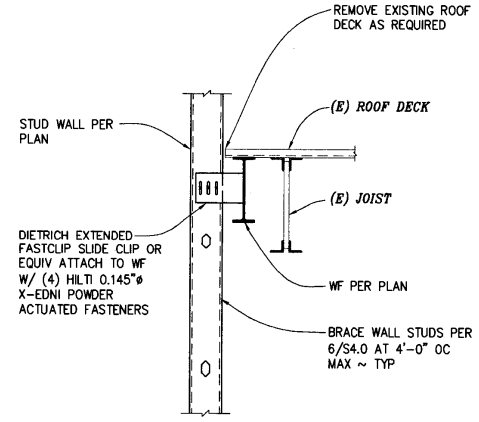
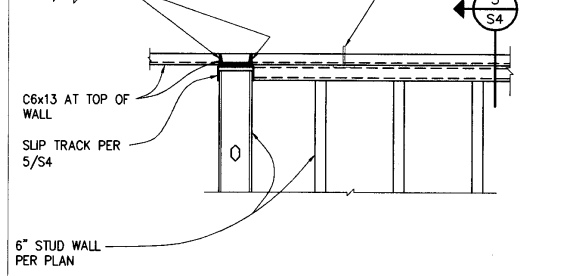


3/4"=1'-0" NEW WF BEAM TO GIRDER CONN **4**

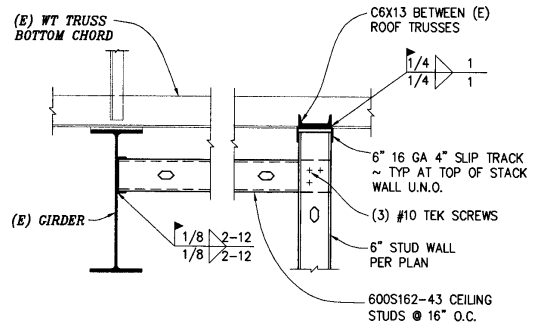


3/4"=1'-0" STUD WALL AT LOW ROOF **1**

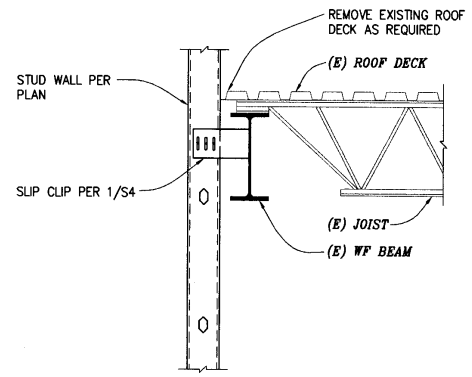
NO SCALE SECTION **11**



3/4"=1'-0" EXT STACK WALL BRACING **8**

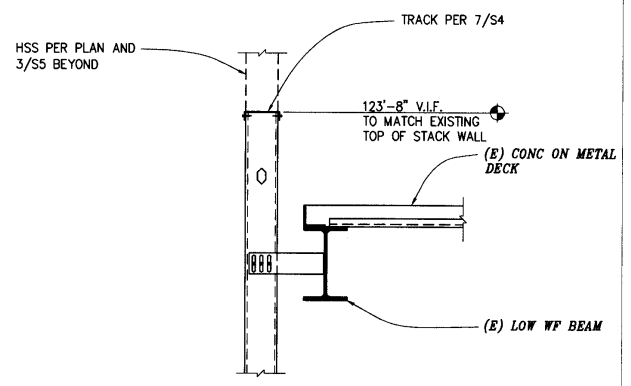


3/4"=1'-0" STUD WALL AT EXISTING TRUSS **5**

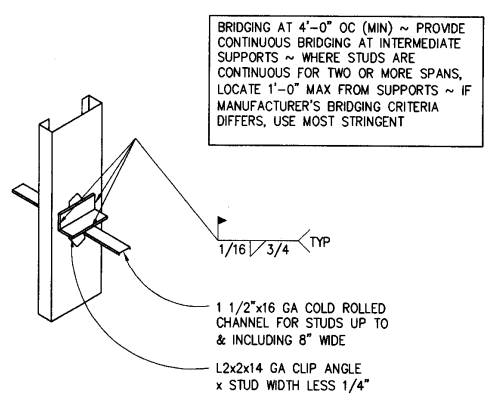


3/4"=1'-0" STUD WALL AT LOW ROOF **2**

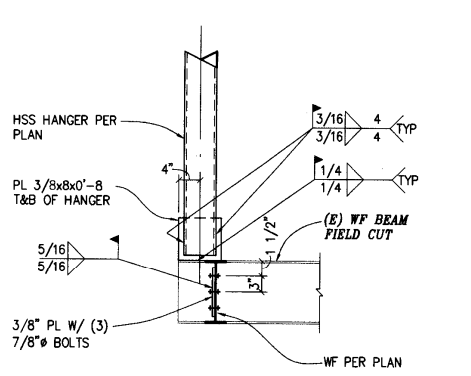
NO SCALE SECTION **12**



3/4"=1'-0" STACK WALL AT MECH ROOM **9**



NO SCALE TYP EXT STUD BRIDGING **6**



3/4"=1'-0" WF BEAM AT HSS HANGER **3**

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TWO RIVERS CONVENTION CENTER
PARTITION
GRANDJUNCTION, CO

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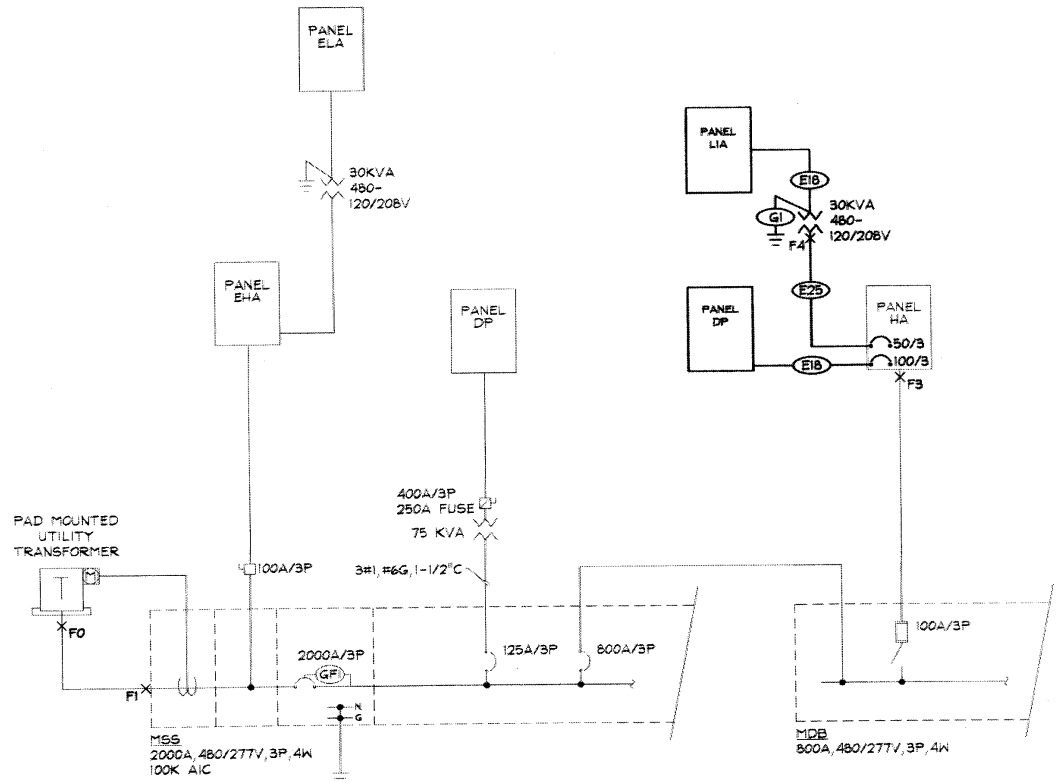
SHEET TITLE: DETAILS

SHEET NUMBER: **S4**

PROJECT:	TWO RIVERS CONVENTION CENTER
PROJECT MANAGER:	GARTH SCHOLL
DESIGNED BY:	GARTH SCHOLL
DRAWN BY:	DNE
PROJECT NO.:	14386.S.03
SHEET NO.:	14386_03-S4.dwg
EDITED BY:	garths
EDITED ON:	Fri, 04 Jan 2008 - 11:02am



ELECTRICAL ONE-LINE DIAGRAM

1 / E1.00 N.T.S.

LOAD JUSTIFICATION FOR "MSS"

2000A, 480/277V, 3-PH, 4W

NET REMOVED DEMAND LOAD:						
LOAD ADDED PANEL "HA"	=	37.6 KVA	x	100%	=	37.6 KVA
LOAD REMOVED "HA"	=	19.8 KVA	x	100%	=	19.8 KVA
LOAD REMOVED "DP"	=	51.0 KVA	x	100%	=	51.0 KVA
LOAD REMOVED "ELA"	=	1.5 KVA	x	100%	=	1.5 KVA
TOTAL NET REMOVED DEMAND LOAD:					=	-34.7 KVA
TOTAL DEMAND LOAD REMOVED					=	-34.7 KVA

NOTES:
[1] NEGATIVE NUMBER INDICATES LOAD REMOVED FROM "MSS" IS MORE THAN LOAD ADDED

LOAD JUSTIFICATION FOR "HA"

100A, 480/277V, 3-PH, 4W

				NEC D.F.		
EXISTING MAXIMUM DEMAND LOAD [1] = 37.0 A	=	30.8 KVA	x	125%	=	38.5 KVA
NET ADDED DEMAND LOAD:						
NEW LOAD	=	37.6 KVA	x	100%	=	37.6 KVA
NET REMOVED LOAD:						
REMOVED LOAD	=	19.8 KVA	x	100%	=	19.8 KVA
TOTAL NET ADDED DEMAND LOAD:					=	17.8 KVA
TOTAL DEMAND LOAD					=	56.2 KVA
TOTAL CAPACITY (100A)					=	83.0 KVA

NOTES:
[1] MAXIMUM DEMAND LOAD IS BASED ON RECORD DRAWINGS DATED 4-26-01

GENERAL NOTES

1. ITEMS SHOWN IN LIGHT LINEWEIGHT ARE EXISTING TO REMAIN UNLESS NOTED AS DEMO. ITEMS IN DARK LINEWEIGHT ARE NEW.

PANEL ' HA '

22-Jan-08

PROJECT: TWO RIVERS
LOCATION: PENTHOUSE
FED FROM: MDB
JOB NUMBER:
COMMENTS: EXISTING

VOLTAGE L-L: 480 V
VOLTAGE L-G: 277 V
TYPE: 3PH/4W
MOUNTING: SURFACE
BUS RATING: 100 AMPS
O.C. PROTECTION: M.L.O.
S.C.R.MS RATING:

CIR NO.	CIRCUIT BREAKER RATING	CIRCUIT BREAKER POLES	LOAD VA	LOAD TYPE	LOAD SERVED	BUS	LOAD SERVED	LOAD TYPE	LOAD VA	CIRCUIT BREAKER POLES	CIRCUIT BREAKER RATING	CIR NO.
1						A	DIMMING	S	7408	3	100 [1]	2
3						B	PANEL	S	6342			4
5						C	DP	S	7806			6
7						A	PANEL	S	4650	3	50 [1]	8
9						B	LIA VIA	S	4860			10
11						C	30 KVA TRANSFORMER	S	4500			12
13						A						14
15						B						16
17						C						18
19						A						20
21						B						22
23						C						24

NOTES:
[1] THREE SINGLE POLE CIRCUITS MADE SPARE DURING DEMOLITION. REPLACE WITH A NEW 3 POLE BREAKER AS SHOWN.

PANEL ' LIA '

22-Jan-08

PROJECT: 2 Rivers Convention Center-lighting
LOCATION: SOUND
FED FROM: HA
JOB NUMBER: 28002.00
COMMENTS:

VOLTAGE L-L: 208 V
VOLTAGE L-G: 120 V
TYPE: 3PH/4W
MOUNTING: SURFACE
BUS RATING: 100 AMPS
O.C. PROTECTION: M.L.O.
S.C.R.MS RATING: 10,000 A.I.C. FULLY RATED

CIR NO.	CIRCUIT BREAKER RATING	CIRCUIT BREAKER POLES	LOAD VA	LOAD TYPE	LOAD SERVED	BUS	LOAD SERVED	LOAD TYPE	LOAD VA	CIRCUIT BREAKER POLES	CIRCUIT BREAKER RATING	CIR NO.
1	20	1	180	E	E-RELAY PANEL RP	A	ROOM #1 N. TRACK	L	1800	1	20	2
3	20	1	360	E	E-PARTITION SENSOR	B	ROOM #1 S. TRACK	L	1800	1	20	4
5	20	1			SPARE	C	ROOM #2 N. TRACK	L	1800	1	20	6
7	20	1			SPARE	A	ROOM #2 S. TRACK	L	1800	1	20	8
9	20	1			SPARE	B	ROOM #3 N. TRACK	L	1800	1	20	10
11	20	1			SPARE	C	ROOM #3 S. TRACK	L	1800	1	20	12
13	20	1			SPARE	A	SPARE			1	20	14
15	20	1			SPARE	B	SPARE			1	20	16
17	20	1			SPARE	C	SPARE			1	20	18
19					SPACE	A	SPACE					20
21					SPACE	B	SPACE					22
23					SPACE	C	SPACE					24

LOAD TYPE DESCRIPTIONS
L - LIGHTING, H - HEAT, R - RECEPTACLE, LM - LARGEST MOTOR, M - MOTOR, E - EQUIPMENT, KE - KITCHEN EQUIPMENT, S - SUBFEED

TOTAL CONNECTED LOADS	PHASE A	PHASE B	PHASE C	PANEL
PANEL VA	3,780	3,960	3,600	11,340
PANEL A	32	33	30	31

PHASE BALANCING (BASED ON CONNECTED LOADS ABOVE)

A - B	B - C	C - A
95%	91%	95%

TOTAL DEMANDED LOADS	PHASE A	PHASE B	PHASE C	PANEL
PANEL VA	4,680	4,860	4,500	
FEED THRU VA				
TOTAL VA	4,680	4,860	4,500	14,040
TOTAL A	39	41	38	39

PANEL (FEEDER) DEMAND LOAD CALCULATIONS

LOAD TYPE	LOAD		MULTIPLIER		DEMANDED LOAD	
CONTINUOUS (L OR H)	10,800	x	1.25	=	13,500	VA
RECEPTACLE						
FIRST 10,000 VA:	0	x	1.00	=	0	VA
ADDITIONAL VA:	0	x	0.50	=	0	VA
LARGEST MOTOR	0	x	1.25	=	0	VA
MOTOR	0	x	1.00	=	0	VA
EQUIPMENT	540	x	1.00	=	540	VA
KITCHEN EQUIPMENT	0	x	1.00	=	0	VA
PIECES OF EQUIPMENT: 0						
SUBFEED	0	x	1.00	=	0	VA

NOTES:

FEEDER SCHEDULE

22-Jan-08

FEEDER NO.	FEEDER CONDUCTORS	PHASE	AMPS
EQUIPMENT FEEDERS			
E18	4#1, 1#8G, 2"C	3-4W+G	100
E25	3#6, 1#10G, 1"C	3-3W+G	55
GROUNDING ELECTRODE CONDUCTORS			
G1	1#6, 1/2"C	G	

NOTE:
1. ALL CONDUCTORS ARE SINGLE CONDUCTOR, THWN, COPPER UNLESS NOTED OTHERWISE. AMPERAGE BASED ON NEC TABLE 310.16.
2. ALL CONDUITS ARE EMT UNLESS NOTED OTHERWISE. FILL RATIOS BASED ON NEC ANNEX C, TABLE C1.

FAULT CURRENT CALCULATION TABLE

1/22/2008

POINT	LENGTH (FT)	ISC AVAILABLE UPSTREAM	ISC AT EQUIP (3ph) OR (1L-L)	ISC AT EQUIP (1L-N)	VOLTAGE AT START (VL-L)	VOLTAGE AT END (VL-L)	% V.D. OF FEEDER	TOTAL % V.D. AT BUS
F0	-	---	0		---	---	---	---
F1	----	----	----	----	---	---	---	---
F2	----	----	----	----	---	---	---	---
F3	----	----	----	----	---	---	---	---
F4	----	----	----	----	---	---	---	---

NOTES:
1. CALCULATIONS WERE PERFORMED USING BUSSMANN "POINT-TO-POINT" METHOD.
2. CALCULATIONS WERE BASED ON ?.(FILL IN RELEVANT INFO)

ABBREVIATIONS AND NOTATIONS

AC	ABOVE COUNTER - VERIFY HEIGHT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
AWG	AMERICAN WIRE GAGE
BFG	BELOW FINISHED GRADE
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
G	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
IG	ISOLATED GROUND
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FACILITY
MLO	MAIN LUGS ONLY
N	NEUTRAL
NC	NORMALLY CLOSED
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OCP	OVERCURRENT PROTECTION
OL	OVERLOAD
SC	SHORT CIRCUIT
TR	TAMPER RESISTANT
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN-USE
XFMR	TRANSFORMER
(E)	EXISTING TO REMAIN
(ER)	EXISTING TO BE REMOVED
(N)	NEW DEVICE
(R)	EXISTING TO BE RELOCATED
(RL)	RELOCATED LOCATION

- KITCHEN EQUIPMENT SCHEDULE NOTATION
- ELECTRICAL EQUIPMENT SCHEDULE NOTATION
- MECHANICAL EQUIPMENT SCHEDULE NOTATION
- POOL EQUIPMENT SCHEDULE NOTATION
- DETAIL NOTE
- DELTA REVISION NOTE
- ELECTRICAL FEEDER SIZE

SCHEMATIC WIRING SYMBOLS

- GROUND
- CURRENT TRANSFORMER
- CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
- FUSED DISCONNECT SWITCH
- ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC (100A)
- NORMALLY CLOSED CONTACT
- NORMALLY OPEN CONTACT
- MOTOR
- GENERATOR
- METER

LUMINAIRES

- LUMINAIRE TYPE, REFERENCING LUMINAIRE SCHEDULE, TYPICAL ALL FIXTURES. SUBSCRIPT, IF SHOWN, REFERENCES WALL SWITCH (A) = ALL TYPE "A" LUMINAIRES IN ROOM OR AREA UON.
- WALL MOUNTED LUMINAIRE
- SURFACE MOUNTED LUMINAIRE
- RECESSED LUMINAIRE
- DOWNLIGHT
- SURFACE CEILING FIXTURE
- SMALL PENDANT LUMINAIRE
- LARGE PENDANT LUMINAIRE (00/3)
- WALLWASH LUMINAIRE
- ACCENT LUMINAIRE
- STEP LUMINAIRE
- STRIP LIGHT FIXTURE
- SURFACE OR PENDANT LIGHTING TRACK
- EXIT LIGHT - SHADED INDICATES FACE/ DIRECTIONAL ARROWS AS SHOWN
- BATTERY PACK EMERGENCY LIGHT
- EMERGENCY FIXTURE - SHADED (EF1)
- PORCELAIN LAMP HOLDER (K)
- EXTERIOR AREA LIGHT
- EXTERIOR WALL PACK
- POOL LUMINAIRE

SWITCHING AND CONTROLS

- SINGLE POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- DIMMER SWITCH
- KEY OPERATED SWITCH
- SWITCH WITH PILOT LIGHT
- THERMAL OVERLOAD SWITCH (TO)
- THERMOSTAT (T)
- RELAY (R)
- TIME CLOCK (TC)
- PHOTOCELL
- PUSH BUTTON
- LUTRON CONTROL STATION

DISTRIBUTION AND RACEWAY

- SURFACE MOUNTED PANELBOARD
- RECESSED PANELBOARD
- TRANSFORMER (T)
- BRANCH CIRCUIT HOMERUN
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT EXPOSED OR CONCEALED IN WALL OR CEILING
- RACEWAY UP
- RACEWAY DOWN
- CAPPED CONDUIT

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Issues/Revisions:	Date:
90% Construction Docs	01-04-08
100% Construction Docs	01-23-08

Two Rivers Convention Center

Exhibit Hall Partitions

Grand Junction, CO

SCD Project No.: 0706

ELECTRICAL ONE-LINE DIAGRAM AND LEGEND

Drawn by: KLY
Checked by: LEY/CMP

E1.00

LUMINAIRE SCHEDULE

22-Jan-08

KEY	DESCRIPTION	MANUFACTURER CATALOG NUMBER	LAMP QTY	LAMP TYPE	VOLTS	MOUNTING INFORMATION	NOTES	MAX VA
D1	COMPACT FLUORESCENT, 8" DIA. DOWNLIGHT, ELEC. DIMMING BALLAST	GOTHAM AF 2/42TRT 8AR 277 ADEZ	2	CFTR42H/GX24Q/835	277	RECESSED GRID		99
D2	COMPACT FLUORESCENT, 6" DIA. DOWNLIGHT, ELEC. BALLAST	PRESCOLITE CFT632EB-STF602	1	CFTR32H/GX24Q/835	277	RECESSED GRID	1	36
F1	FLUORESCENT, 2X4 TROFFER ELEC. DIMMING BALLAST	LITHONIA 2SP6 G 6 32 A12 277 ADEZ	6	F32T8/SPX835	277	RECESSED GRID	2	204
P1	COMPACT FLUORESCENT, 27" DIA CHANDELIER, ELEC. DIMMING BALLAST	SPI LIGHTING AIP8036 24F26 HP01 BAL MOD 3' OAH	24	CFTR26H/GX24Q/835	277	PENDANT 3'-0" PL	4	648
T	8' TRACK WITH 800W CURRENT LIMITING DEVICE, SURFACE, WHITE	LIGHTOLIER 6002-WH, 6099WH, CLDB00WH	--	--	120	SURFACE		300
T1	HALOGEN, ADJUSTABLE TRACK HEAD, WHITE, LOW VOLTAGE	LIGHTOLIER DR2L811WH	1	75PAR36/H/SP5	120/12	TRACK	3	75

MOUNTING ABBREVIATIONS

APF - ABOVE FINISHED FLOOR
BFC - BELOW FINISHED CEILING
RFD - RECESSED FIXTURE DEPTH
BOF - BOTTOM OF FIXTURE
COF - CENTER OF FIXTURE
TOF - TOP OF FIXTURE
PL - PENDANT LENGTH
PH - POLE HEIGHT

NOTES:

1. FIXTURE TO MATCH EXISTING DOWNLIGHTS ON SOUTH ENTRY HALL. VERIFY MANUFACTURER AND MODEL NUMBER PRIOR TO ORDERING.
2. PROVIDE A BODINE EMERGENCY BALLAST FOR FIXTURES LABELED EM. WIRE FIXTURE SO THAT FIXTURE DIMS UNDER NORMAL CONDITIONS BUT 3 LAMPS GO TO FULL BRIGHT IN EM CONDITIONS. REFER TO INSTALLATION INSTRUCTIONS.
3. PROVIDE (1) REMOTE CONTROL UNIT FOR AIMING AND DIMMING FIXTURES, LIGHTOLIER #DRCP.
4. PROVIDE FIXTURE WITH MARK 10 DIMMING BALLAST.

LIGHTING RELAY PANEL SCHEDULE

21-Jan-08

RELAY PANEL NAME: DP
DESCRIPTION: 24 DIMMER PANEL
MOUNTING: SURFACE
CONTROL CIRCUIT: HA-2,4,6
LOCATION: STORAGE CLOSET
PANEL TYPE: 480/277V, 3 PHASE, 4 WIRE, 175A M.L.O.
S.C. RMS RATING: 14,000 A.I.C. FULLY RATED

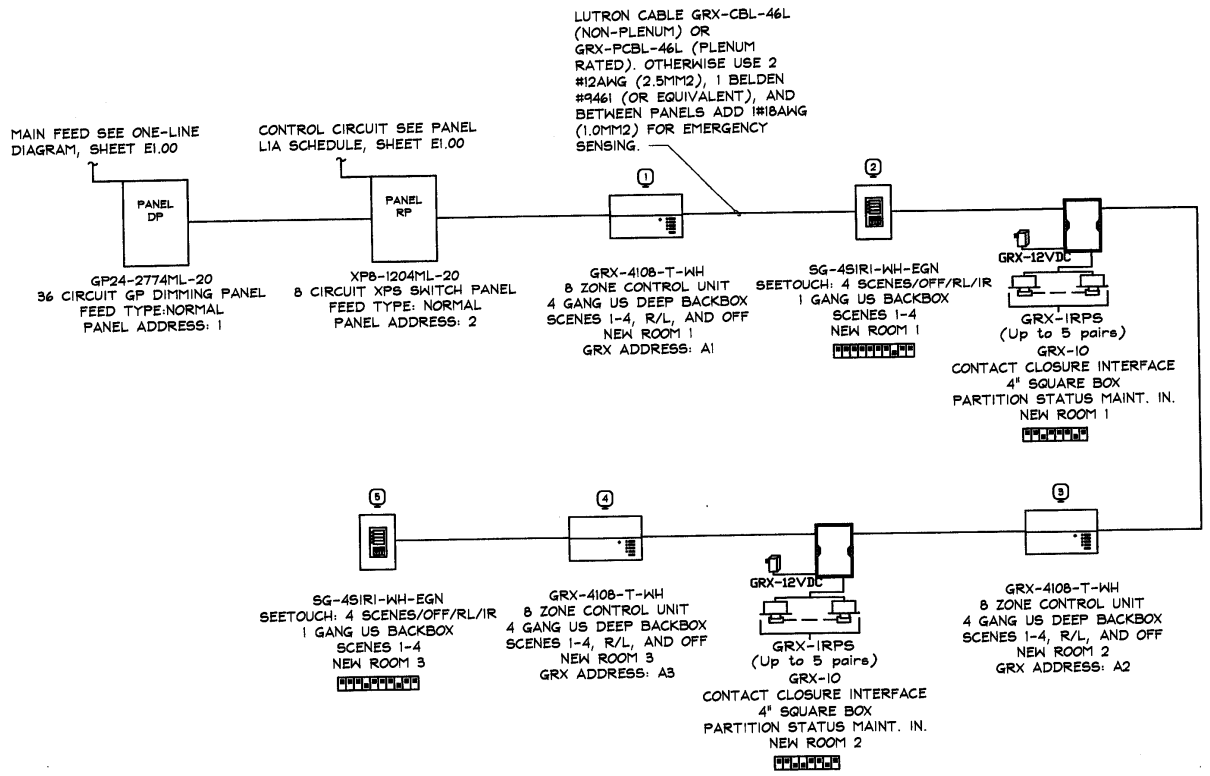
ZONE #	DIMMER AMP	DESCRIPTION OF CONTROL	CONTROL SWITCH #	LOAD TYPE	LOAD VA	PHASE	NOTES
A1	20	ROOM #1 NORTH DOWNLIGHTS	S1,S2	MARK 10 CFL	1188	A	2
A2	20	ROOM #1 SOUTH DOWNLIGHTS	S1,S2	MARK 10 CFL	1188	B	2
A3	20	ROOM #1 NORTH PENDANT	S1,S2	MARK 10 CFL	648	C	3
A4	20	ROOM #1 SOUTH PENDANT	S1,S2	MARK 10 CFL	648	A	3
A5	20	ROOM #1 NORTH TROFFERS	S1,S2	MARK 10 T8	2448	B	4
A6	20	ROOM #1 SOUTH TROFFERS	S1,S2	MARK 10 T8	1632	C	4
B1	20	ROOM #2 NORTH DOWNLIGHTS	S2	MARK 10 CFL	1188	A	2
B2	20	ROOM #2 SOUTH DOWNLIGHTS	S2	MARK 10 CFL	1188	B	2
B3	20	ROOM #2 NORTH PENDANT	S2	MARK 10 CFL	648	C	3
B4	20	ROOM #2 SOUTH PENDANT	S2	MARK 10 CFL	648	A	3
B5	20	ROOM #2 SOUTH TROFFERS	S2	MARK 10 T8	1632	B	4
B6	20	ROOM #2 NORTH TROFFERS	S2	MARK 10 T8	2448	C	4
C1	20	ROOM #3 NORTH DOWNLIGHTS	S3,S4	MARK 10 CFL	1188	A	2
C2	20	ROOM #3 SOUTH DOWNLIGHTS	S3,S4	MARK 10 CFL	1188	B	2
C3	20	ROOM #3 NORTH PENDANT	S3,S4	MARK 10 CFL	648	C	3
C4	20	ROOM #3 NORTH TROFFERS	S3,S4	MARK 10 T8	2448	A	4
C5	20	ROOM #3 SOUTH PENDANT	S3,S4	MARK 10 CFL	648	B	3
C6	20	ROOM #3 SOUTH TROFFERS	S3,S4	MARK 10 T8	1632	C	4
		SPARE				A	
		SPARE				B	
		SPARE				C	
		SPARE				A	
		SPARE				B	
		SPARE				C	

TOTALS

PHASE A (VA)	7408
PHASE B (VA)	8342
PHASE C (VA)	7806
TOTAL AMPS (3)	55

NOTES

1. SWITCH NUMBERS CORRESPOND TO LUTRON CONTROLS ONE-LINE DIAGRAM AND SWITCHES ON PLAN.
2. FIXTURE WILL HAVE A SINGLE (2 LAMP) 42TRT MARK 10 DIMMING BALLASTS.
3. EACH FIXTURE HEAD OF THE CHANDELIER WILL HAVE TWO (3 LAMP) 26TRT MARK 10 DIMMING BALLASTS.
4. EACH TROFFER WILL HAVE TWO (3 LAMP) 32WT8 MARK 10 DIMMING BALLASTS.
5. TOTAL INCLUDE 125% DEMAND FACTOR FOR LIGHTING.



1 / E1.10 DIMMER CONTROL ONE-LINE DIAGRAM
N.T.S.

LIGHTING RELAY PANEL SCHEDULE

22-Jan-08

RELAY PANEL NAME: RP
DESCRIPTION: 8-CONTACTOR ENCLOSURE
MOUNTING: SURFACE
LOCATION: STORAGE CLOSET
CONTROL CIRCUIT: LIA-1

RELAY #	RELAY VOLT	RELAY AMP	DESCRIPTION OF CONTROL	SWITCH	CIRCUIT	NOTES
A7	120	20	ROOM #1 NORTH TRACK	S1,S2	LIA-2	1
A8	120	20	ROOM #1 SOUTH TRACK	S1,S2	LIA-4	1
B7	120	20	ROOM #2 NORTH TRACK	S3	LIA-6	1
B8	120	20	ROOM #2 SOUTH TRACK	S3	LIA-8	1
C7	120	20	ROOM #3 NORTH TRACK	S4,S5	LIA-10	1
C8	120	20	ROOM #3 SOUTH TRACK	S4,S5	LIA-12	1
--	120	20	SPARE			
--	120	20	SPARE			

NOTES

1. SWITCHED CIRCUIT TO BE CONTROLLED WITH GRAFIC EYE SYSTEM.

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90% Construction Docs	01-04-08
100% Construction Docs	01-23-08

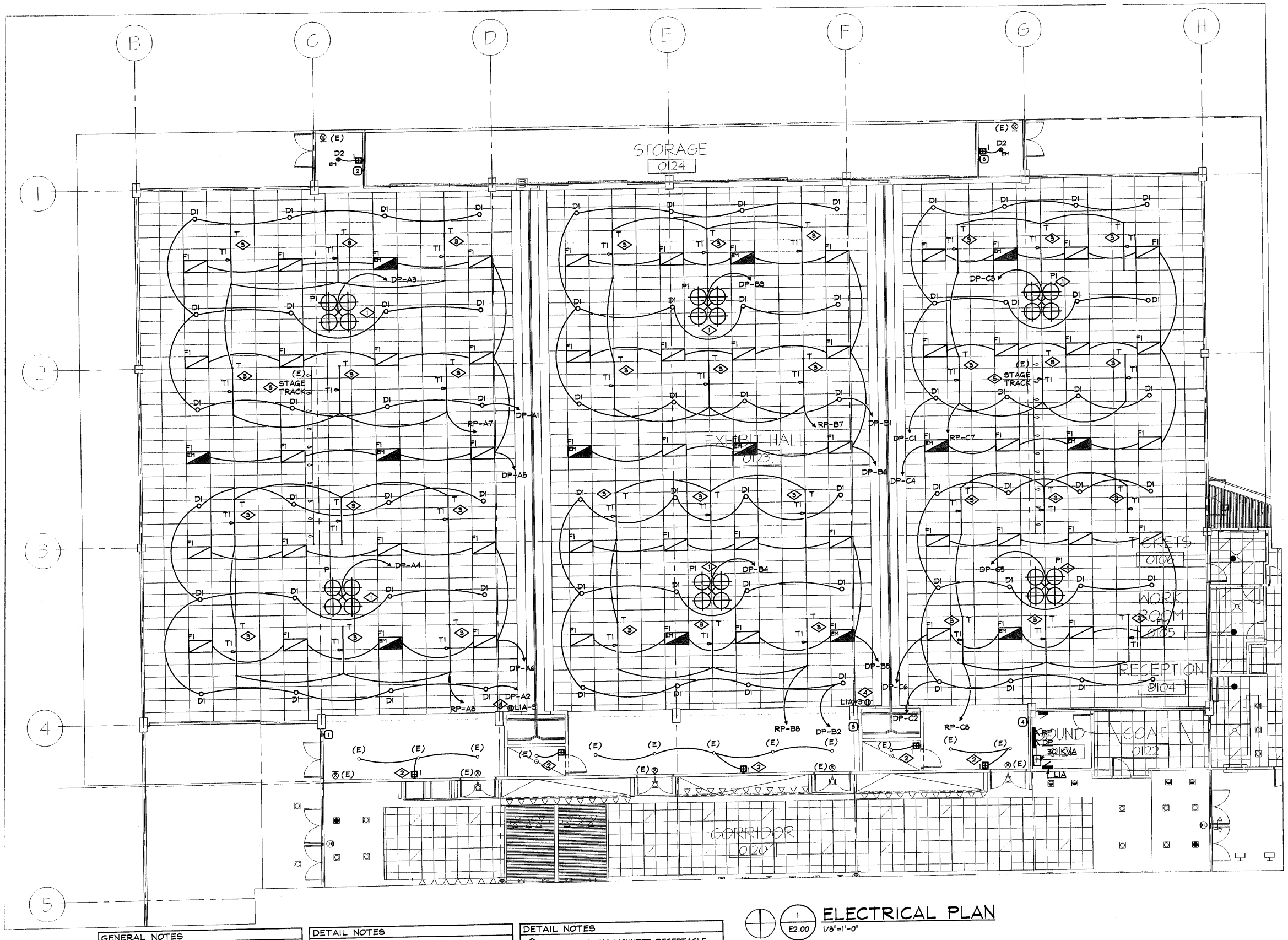
Two Rivers Convention Center
Exhibit Hall Partitions
Grand Junction, CO

SCD Project No.: 0706

LIGHTING AND CONTROL SCHEDULES

Drawn by: KLY
Checked by: LEY/CMP

E1.10



GENERAL NOTES

1. REMOVE ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN EXHIBIT AREA. ALL LIGHTING AND LIGHTING CONTROLS ARE TO BE REMOVED BACK TO THE PANEL UNLESS NOTED AS (E), EXISTING TO REMAIN.
2. MOVE ALL LINEAR DIFFUSERS AND SPEAKERS THAT INTERFERE WITH LIGHTING.
3. EXISTING PANEL HA IS IN THE MECHANICAL PENTHOUSE ON THE FLOOR ABOVE ON COLUMN LINE D5.

DETAIL NOTES

<1> ADD/ALTERNATE #1. PROVIDE PENDANT FIXTURE IF ADD/ALTERNATE IS ACCEPTED. IF ADD ALTERNATE IS NOT ACCEPTED PROVIDE WIRING FROM DIMMING SYSTEM AS SHOWN ON THE PLANS. PROVIDE A BLANK COVER PLATE FOR THE JUNCTION BOX FOR FUTURE PENDANT CONNECTION.

<2> REWORK EXISTING CIRCUITING TO CIRCUIT LIGHTS TO NEW MOTION SENSORS.

<S> ADD/ALTERNATE #2. PROVIDE TRACK AND TRACK FIXTURE IF ADD/ALTERNATE #2 IS ACCEPTED. IF NOT ACCEPTED PROVIDE THE TRACK ONLY.

DETAIL NOTES

<4> PROVIDE CEILING MOUNTED RECEPTACLE FOR LUTRON PARTITION SENSOR. REFER TO LUTRON INSTALLATION INSTRUCTIONS FOR RECOMMENDED LOCATION FOR THE PARTITION SENSOR. MOUNT RECEPTACLE IN THAT LOCATION.

<S> EXISTING STAGE TRACK AND ALL OF ITS CONTROLS ARE TO REMAIN.

NORTH

1 / E2.00 ELECTRICAL PLAN

1/8"=1'-0"

OCCUPANCY SENSOR SCHEDULE

KEY	DESCRIPTION	MFR. & CAT. NO.	Notes
⊕1	PASSIVE INFRARED WALL MOUNTED MOTION SENSOR, USER OVERRIDE	THE WATT STOPPER PW-100	

NOTES:
1.

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ELECTRICAL PLAN

Drawn by: KLY
Checked by: LEY/CMP

E2.00

ELECTRICAL SPECIFICATIONS- DIVISION 16000

PART 1 GENERAL PROVISIONS

1.01 CODES AND REQUIREMENTS

A. ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2005 EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, SPECIFICATIONS, AND ANY BASE BUILDING STANDARDS, SPECIFICATIONS OR CRITERIA INCLUDED IN THIS PROJECT.

C. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY, WHETHER SPECIFICALLY STATED OR NOT, FOR COMPLETE AND OPERATIONAL ELECTRICAL SYSTEMS. GOOD WORKMANSHIP AND APPEARANCE ARE CONSIDERED EQUAL TO PROPER OPERATION.

D. ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURERS' DIRECTIONS AND RECOMMENDATIONS.

E. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE PREMISES, AND BECOME THROUGHLY FAMILIAR WITH ANY EXISTING BUILDING STANDARDS AND LOCAL CONDITIONS PRIOR TO SUBMITTING BID. FAILURE TO PERFORM THIS EXAMINATION AND COORDINATION SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT OR CONSTITUTE CAUSE FOR PAYMENTS IN EXCESS OF THE CONTRACTUAL FEE. THE CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR FIXING EXISTING CODE VIOLATIONS OR ELECTRICAL PROBLEMS THAN CAN NOT BE SEEN WITHOUT TAKING APART THE BUILDING OR ELECTRICAL SYSTEMS.

F. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES, AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK.

G. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS SPECIFICALLY IDENTIFIED ON THE DRAWINGS AS EXISTING, TO BE REUSED. MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., E.T.L., C.S.A. OR ANOTHER RECOGNIZED TESTING LABORATORY. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR EQUIPMENT BELIEVED TO BE INADEQUATE, UNSUITABLE, OR IN VIOLATION OF LAWS, CODES, ORDINANCES, OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

H. INFORMATION ON THESE DRAWINGS HAS BEEN ASCERTAINED FROM EXISTING RECORD DRAWINGS AND FIELD OBSERVATIONS. THIS INFORMATION IS AS ACCURATE AS CONDITIONS WOULD ALLOW. REPORT ANY DISCREPANCIES TO ARCHITECT/ENGINEER PRIOR TO DISTURBING EXISTING INSTALLATION.

I. THE ELECTRICAL WORK IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS TO INDICATE THE GENERAL SYSTEM ARRANGEMENT. FOR EXACT DIMENSIONS, REFER TO ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS, AND THE STRUCTURE ITSELF. COORDINATE WORK WITH THE OTHER TRADES TO PROVIDE COMPLETE SYSTEMS WHICH CAN BE EASILY OPERATED AND MAINTAINED, AND WHICH WILL FIT WITHIN THE AVAILABLE PHYSICAL SPACE.

J. THIS WORK SHALL BE PEFORMED WITHOUT INTERRUPTION OF ANY ELECTRICAL SERVICES TO OTHER TENANTS IN THE BUILDING. SCHEDULE ANY REQUIRED INTERRUPTIONS WITH OWNER PRIOR TO WORK. BIDS SHALL INCLUDE THE COST OF PERFORMING SUCH WORK OUTSIDE OF NORMAL BUSINESS HOURS. PROVIDE TEMPORARY FEEDERS, BRANCH CIRCUITS, AND CONNECTIONS AS NECESSARY TO MAINTAIN EXISTING SYSTEMS DURING CONSTRUCTION.

K. PROVIDE ALL CORE DRILLING, CHANNELING, CUTTING, AND PATCHING AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT. SEAL HOLES, USING FIREPROOFING WHERE NECESSARY, AND REFINISH ALL REPAIR WORK TO THE ORIGINAL CONDITION WHERE DAMAGED BY ELECTRICAL WORK. UNDER NO CIRCUMSTANCES MAY STRUCTURAL MEMBERS BE CUT WITHOUT APPROVAL FROM THE ARCHITECT/STRUCTURAL ENGINEER.

L. THE CONTRACTOR SHALL AVOID THE ACCUMULATION OF DEBRIS RESULTING FROM HIS/HER WORK. ALL LUMINAIRES AND EQUIPMENT SHALL BE CLEANED AT THE COMPLETION OF THE PROJECT. SPECIFIED LUMINAIRES, NEW OR EXISTING, THAT ARE USED BY ANY TRADE FOR TEMPORARY LIGHTING SHALL BE RELAMPED AT THE COMPLETION OF THE PROJECT.

M. MAKE PROVISIONS FOR SAFE DELIVERY AND SECURE AND DRY STORAGE FOR ALL MATERIALS AND EQUIPMENT.

N. PROVIDE THE ARCHITECT WITH A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS CORRECTED TO AS-BUILT CONDITIONS AT THE COMPLETION OF THE PROJECT. PROVIDE (3) COPIES OF OPERATION AND MAINTENANCE MANUALS TO OWNER.

1.02 ELECTRICAL DEMOLITION

A. ALL ITEMS SHOWN ON THE DRAWINGS TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE POINT OF ORIGIN OR NEAREST ITEM THAT IS REMAINING, UNLESS OTHERWISE NOTED. WHERE EXISTING DEVICES, SWITCHES, POWER CONNECTIONS, ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, WALLS SHALL BE REPAIRED TO MATCH ORIGINAL FINISH AFTER CONDUCTORS HAVE BEEN REMOVED. BLANK COVERPLATES OVER EXISTING BOXES ARE NOT ACCEPTABLE.

B. EXISTING CONDUITS ROUTED IN CONCRETE FLOOR SLABS, WALLS, OR CEILINGS SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH FLUSH WITH CONCRETE SURFACE.

C. THE CONTRACTOR SHALL DISCONNECT POWER AS REQUIRED AND PROVIDE TEMPORARY LIGHTING AND POWER FOR ALL TRADES.

D. THE GENERAL CONTRACTOR SHALL INCLUDE IN THEIR COST THE REMOVAL OF ALL DEVICES, CONDUCTORS, RACEWAY, LUMINAIRES, AND EQUIPMENT WHICH ARE NOT INTENDED TO BE REUSED. THE CONTRACTOR SHALL PRESENT ALL REMOVED ITEMS TO THE OWNER FOR DISPOSITION. ALL ITEMS NOT WANTED BY THE OWNER BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

E. THE CONTRACTOR SHALL FIELD-VERIFY MEASUREMENTS AND CIRCUITING ARRANGEMENTS SHOWN ON THE DRAWINGS.

F. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL VERIFY THE PROPER OPERATION OF ALL EXISTING DEVICES OR EQUIPMENT TO BE REUSED, RELOCATED, RECONNECTED, OR RECONFIGURED.

G. ALL RELOCATED LUMINAIRES SHALL BE CLEANED, RELAMPED, AND REPAIRED AS NECESSARY.

H. EXISTING PANELBOARD AND SWITCHBOARDS: CLEAN EXPOSED SURFACES AND TIGHTEN LUGS AS NECESSARY. REPLACE DAMAGED SWITCHES AND CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS.

I. WHERE EXISTING BRANCH CIRCUITING IS INTERRUPTED TO REMOVE OR RELOCATE WIRING DEVICES, THE CONTRACTOR SHALL MAINTAIN CIRCUIT CONTINUITY FOR ALL REMAINING DEVICES.

J. THE CONTRACTOR SHALL REMOVE ALL ABANDONED DEVICES, RACEWAYS AND CONDUCTORS.

1.03 SUBMITTALS

A. ANY PROPOSED SUBSTITUTIONS FOR SPECIFIED EQUIPMENT SHALL BE IDENTIFIED IN THE BID DOCUMENTS AND SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT, ENGINEER, AND OWNER.

B. SHOP DRAWINGS SHALL BE SUBMITTED AS A COMPLETE PACKAGE AND SHALL INCLUDE MANUFACTURER'S NAME, CATALOG NUMBERS, CUT SHEETS, DIAGRAMS AND OTHER DESCRIPTIVE DATA AS REQUIRED TO REVIEW THE EQUIPMENT. THE CONTRACTOR SHALL ALLOW A MINIMUM OF (10) WORKING DAYS FOR DISTRIBUTION AND REVIEW OF SHOP DRAWINGS.

C. SUBMIT SHOP DRAWINGS OF THE FOLLOWING FOR REVIEW BY THE ARCHITECT/ENGINEER:

1. WIRING DEVICES
2. PANELBOARDS
3. ENCLOSED SWITCHES AND CIRCUIT BREAKERS
4. TRANSFORMERS
5. LUMINAIRES
6. CONTROL EQUIPMENT (TIME CLOCKS, CONTACTORS, MOTION SENSORS, ETC.)
7. OPERATION AND MAINTENANCE MANUAL

1.04 GUARANTEE

A. PROVIDE A SINGLE GUARANTEE TO THE OWNER STATING THAT ALL OF THE ELECTRICAL WORK IS INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THAT ALL WORK IS GUARANTEED AGAINST FAULTY MATERIALS OR WORKMANSHIP FOR A PERIOD OF (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. INCANDESCENT AND FLUORESCENT LAMPS SHALL BE EXCEPTED. CORRECT ANY DEFICIENCES THAT OCCUR DURING THE GUARANTEE PERIOD IN A TIMELY FASHION, AT NO ADDITIONAL COST TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER/ARCHITECT/ENGINEER.

B. PROVIDE OWNER WITH WARRANTIES FOR INSTALLED EQUIPMENT ALONG WITH CONTACT NAMES AND TELEPHONE NUMBERS OF WARRANTY SERVICE REPRESENTATIVES.

PART 2 PRODUCTS

2.01 ELECTRICAL IDENTIFICATION

A. PROVIDE LABELING FOR RECEPTACLE AND WALL SWITCH COVERPLATES AS SPECIFIED ON THE DRAWINGS.

B. PROVIDE PERMANENT MARKING ON JUNCTION BOXES AND PULLBOXES INDICATING CIRCUITS CONTAINED WITHIN. JUNCTION BOXES IN THE EMERGENCY POWER DISTRIBUTION SYSTEM SHALL HAVE COVERS PAINTED RED.

C. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL ELECTRICAL CABINETS, ENCLOSURES, PANELBOARDS, DISTRIBUTION EQUIPMENT, ETC. LETTERING HEIGHTS ARE AS FOLLOWS:

1. PANELBOARDS 1/2"
2. TRANSFORMERS 1/2"
a. 1/8"- IDENTIFY PRIMARY SOURCE AND SECONDARY LOAD.
4. DISCONNECT SWITCHES 1/2"
5. FEEDER SWITCHES 1/4"
6. WALL COVERPLATES 1/8"
7.

2.02 RACEWAY AND BOXES

A. OUTLET BOXES SHALL BE 4" SQUARE OR OCTAGONAL,

B. OUTLET BOXES SHALL BE GALVANIZED OR SHERADIZED STAMPED SHEET STEEL BOXES, KNOCK-OUT TYPE, NOT LESS THAN NO. 14 U.S. GAUGE STEEL.

C. PROVIDE 3/8" NO-BOLT FIXTURE STUDS.

2.03 WIRE AND CABLE (600 VOLTS AND LESS)

A. MINIMUM WIRE SIZE SHALL BE NO. 12 AWG. CONTROL OR SIGNAL CIRCUITS MAY BE SMALLER, AS INDICATED ON THE DRAWINGS.

B. WIRE INSTALLED IN INTERIOR DRY LOCATIONS SHALL BE TYPE THHN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS.

C. WIRE INSTALLED IN RACEWAYS IN WET LOCATIONS SHALL BE TYPE THWN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS.

D. WIRE NO. 10 AWG AND SMALLER SHALL BE SOLID. WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED.

E. SPLICES FOR WIRE NO. 6 AWG AND SMALLER SHALL BE MADE WITH TWIST-ON WIRE CONNECTORS.

F. SPLICES FOR WIRE NO. 4 AWG AND LARGER SHALL BE MADE WITH SOLDERLESS OR COMPRESSION TYPE CU/ALR LUGS.

G. BRANCH CIRCUIT AND FEEDER WIRING SHALL BE COLOR CODED AS FOLLOWS. WIRE NO. 2 AWG AND SMALLER SHALL BE FACTORY COLOR CODED.

120/208 VOLTS	277/480 VOLTS
PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - ORANGE
PHASE C - BLUE	PHASE C - YELLOW
NEUTRAL - WHITE	NEUTRAL - GRAY
GROUND - GREEN	GROUND - GREEN
SWITCH TRAVELERS- PINK	SWITCH TRAVELERS - PURPLE

2.04 WIRING DEVICES

A. DEVICE CATALOG NUMBERS LISTED BELOW ARE BY HUBBELL UNLESS OTHERWISE NOTED. EQUAL DEVICES BY LEVITON, PASS & SEYMOUR, OR COOPER MAY BE ACCEPTABLE WITH ENGINEER APPROVAL.

B. RECEPTACLES: CONFIGURATIONS SHALL CONFORM TO NEMA WD 1. DEVICES SHALL BE HEAVY DUTY SPECIFICATION GRADE, IVORY PLASTIC UNLESS OTHERWISE NOTED.

1. GENERAL PURPOSE: NEMA 5-20R, HBL5362.

C. PROVIDE NYLON COVERPLATES TO MATCH DEVICE COLOR UNLESS OTHERWISE NOTED.

2.05 PANELBOARDS

A. 120/208V LIGHTING AND APPLIANCE PANELBOARDS SHALL BE EQUAL TO SQUARE D TYPE NQOD UNLESS OTHERWISE INDICATED ON THE PANEL SCHEDULES.

B. POWER DISTRIBUTION PANELBOARDS SHALL BE EQUAL TO SQUARE D I-LINE UNLESS OTHERWISE INDICATED ON THE PANEL SCHEDULES.

C. PANELBOARDS SHALL CONSIST OF AN ASSEMBLY OF BRANCH CIRCUIT BREAKERS MOUNTED INSIDE A DEAD-FRONT ENCLOSURE. CIRCUIT BREAKERS SHALL BE MOLDED-CASE, THERMAL-MAGNETIC TYPE BOLTED TO THE BUS. PANEL COVERS SHALL BE HINGED DOOR-IN-DOOR CONSTRUCTION.

E. BUSSING SHALL BE COPPER OR TIN-PLATED, HIGH-STRENGTH, ELECTRICAL GRADE ALUMINUM ALLOY.

F. ENCLOSURES SHALL BE NEMA 1 UNLESS OTHERWISE NOTED.

G. PANELBOARDS SHALL BE MANUFACTURED BY SQUARE D, SIEMENS, CUTLER-HAMMER, OR GENERAL ELECTRIC. ALL ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE BY THE SAME MANUFACTURER.

2.06 ENCLOSED SWITCHES AND CIRCUIT BREAKERS

A. ENCLOSED FUSIBLE OR NONFUSIBLE SAFETY SWITCHES: NEMA KS 1. SAFETY SWITCHES SHALL BE HEAVY DUTY WITH QUICK-MAKE AND QUICK-BREAK MECHANISMS. SWITCHES USED FOR MOTOR CIRCUITS SHALL HAVE ADEQUATE HORSEPOWER RATING FOR THE MOTOR(S) SERVED.

B. ENCLOSED MOLDED CASE CIRCUIT BREAKER: NEMA AB 1. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC WITH INVERSE TIME-CURRENT ELEMENT FOR LOW LEVEL OVERLOADS AND INSTANTANEOUS TRIP ELEMENT FOR SHORT CIRCUIT PROTECTION. CIRCUIT BREAKERS SHALL HAVE INTERRUPTING CAPACITIES TO WITHSTAND AVAILABLE FAULT CURRENTS.

B. ENCLOSURES SHALL BE A NEMA TYPE SUITABLE FOR THE SURROUNDING AREA AND CONDITIONS.

D. SWITCHES AND CIRCUIT BREAKERS SHALL BE MANUFACTURED BY SQUARE D, SIEMENS, CUTLER-HAMMER, OR GENERAL ELECTRIC. ALL ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE BY THE SAME MANUFACTURER.

2.08 DRY-TYPE TRANSFORMERS

A. PROVIDE DRY-TYPE TRANSFORMERS TO OBTAIN 120/208V POWER.

B. ENCLOSURES SHALL BE NEMA 1.

C. PROVIDE VIBRATION ISOLATION FOR ALL TRANSFORMERS.

D. TRANSFORMERS SHALL BE MANUFACTURED BY SQUARE D, SIEMENS, CUTLER-HAMMER, GENERAL ELECTRIC, OR ENGINEER-APPROVED EQUAL. ALL ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE BY THE SAME MANUFACTURER.

2.10 LUMINAIRES

A. PROVIDE ALL NEW LUMINAIRES COMPLETE WITH LAMPS, BALLASTS, REFLECTORS, LOUVERS, PLASTER FRAMES, HANGARS, AND ALL OTHER ACCESSORIES REQUIRED AND AS SCHEDULED ON THE DRAWINGS.

B. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC, HIGH POWER FACTOR UNLESS OTHERWISE NOTED ON THE DRAWINGS.

C. VERIFY ALL CEILING TYPES PRIOR TO ORDERING LUMINAIRES.

D. TROFFER LENS SHALL BE 100% VIRGIN ACRYLIC, MINIMUM 0.125" THICK.

E. LUMINAIRES SHOWN SHADED OR WITH A SUBSCRIPT "EM" SHALL BE PROVIDED WITH A BATTERY PACK INVERTER, CIRCUITED AHEAD OF ANY SWITCHING.

PART 3 EXECUTION

3.01 EQUIPMENT CONNECTIONS AND COORDINATION

A. MECHANICAL EQUIPMENT AND ASSOCIATED CONTROL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

B. PROVIDE FEEDERS AND BRANCH CIRCUITS TO EQUIPMENT AND MAKE CONNECTIONS. LOW VOLTAGE CONTROLS WIRING AND CONNECTIONS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

C. PROVIDE ENCLOSED SAFETY SWITCHES, CIRCUIT BREAKERS, OR THERMAL OVERLOAD DISCONNECT SWITCHES AS NECESSARY.

3.02 RACEWAYS AND BOXES

A. ALL CONDUCTORS SHALL BE ENCLOSED IN CONDUIT SIZED IN ACCORDANCE WITH ANNEX C OF THE NATIONAL ELECTRICAL CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2" EXCEPT FOR FACTORY-FURNISHED LUMINAIRE FLEXIBLE CONDUITS WHICH MAY BE 3/8".

B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE UTILIZED FOR ALL DRY, ABOVE GRADE OR ABOVE FLOOR APPLICATIONS UNLESS OTHERWISE NOTED. EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE OR STEEL SET SCREW TYPE.

C. FLEXIBLE METAL CONDUIT (FMC) SHALL BE UTILIZED FOR ALL DRY LOCATION CONNECTIONS TO RECESSED LUMINAIRES OR VIBRATING EQUIPMENT SUCH AS MOTORS OR TRANSFORMERS (MINIMUM 2'-0", MAXIMUM 6'-0").

D. LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) SHALL BE UTILIZED IN AREAS SUBJECT TO MOISTURE WHERE FMC IS UNACCEPTABLE.

E. RIGID NONMETALLIC CONDUIT (RNC) SHALL BE UTILIZED FOR ALL BELOW GRADE APPLICATIONS. VERTICAL RISERS AND ELBOWS SHALL BE GALVANIZED RIGID METAL CONDUIT (RMC).

F. GALVANIZED RIGID METAL CONDUIT (RMC) OR INTERMEDIATE METAL CONDUIT (IMC) SHALL BE UTILIZED FOR ALL ABOVE GRADE APPLICATIONS WHERE EXPOSED TO MOISTURE, MECHANICAL DAMAGE, IN HAZARDOUS LOCATIONS, AND WHERE REQUIRED BY CODES.

G. ALL RACEWAYS AND ASSOCIATED COMPONENTS SHALL BE CONCEALED TO THE EXTENT POSSIBLE. EXPOSED RACEWAY, INCLUDING CONDUIT INSTALLED ABOVE ACCESSIBLE CEILINGS, SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND TIGHT TO STRUCTURE. EXPOSED RACEWAYS IN ARCHITETURALLY FINISHED AREAS SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

H. PROVIDE EXPANSION TYPE FITTINGS FOR ALL RACEWAYS THAT CROSS EXPANSION JOINTS.

I. PROVIDE SLEEVES AS REQUIRED TO ROUTE CABLING FROM FLOOR TO FLOOR OR THROUGH FIRE-RATED STRUCTURES. SEAL HOLES THROUGH FIRE-RATED STRUCTURES WITH FIREPROOFING MATERIAL.

J. ALL RACEWAYS INSTALLED FOR TELECOMMUNICATIONS OR OTHER SPECIAL SYSTEM CABLING SHALL BE PROVIDED WITH A PULLCORD, PLASTIC BUSHINGS AT OPEN ENDS, AND PULLBOXES AT INTERVALS REQUIRED BY THE CABLE INSTALLER.

K. PLENUM RATED WIRING FOR SYSTEMS OTHER THAN POWER SYSTEMS MAY BE INSTALLED ABOVE ACCESSIBLE CEILINGS WITHOUT RACEWAYS WHEN APPROVED BY THE ARCHITECT/ENGINEER/OWNER. PROVIDE BRIDAL RINGS OR SIMILAR WIRE MANAGEMENT SYSTEM AT INTERVALS REQUIRED BY THE CABLE INSTALLER.

L. LOCATE JUNCTION BOXES AND PULLBOXES IN ACCESSIBLE LOCATIONS.

M. SUPPORT JUNCTION BOXES AND PULLBOXES DIRECTLY FROM STRUCTURE, INDEPENDENT OF CONDUIT. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO CEILING SUPPORT WIRES OR SPLINES. SUPPORT RACEWAYS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

N. CONDUITS SHALL BE FASTENED TO OUTLET, DEVICE, PULL AND JUNCTION BOXES WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS SHALL BE LEFT SEALED. PROVIDE CAPS FOR UNUSED KNOCKOUTS.

O. PROVIDE OUTLET, DEVICE, PULL, AND JUNCTION BOXES WITH ADEQUATE WIRING SPACE TO COMPLY WITH NEC ARTICLE 314.

3.03 WIRE AND CABLE (600 VOLTS AND LESS)

A. WIRING FOR SYSTEMS OTHER THAN POWER SYSTEMS SHALL BE PROVIDED BY OTHERS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

3.04 WIRING DEVICES

A. INSTALL CENTERLINE OF DEVICES AT THE FOLLOWING HEIGHTS UNLESS OTHERWISE NOTED ON THE DRAWINGS:

1. RECEPTACLES:	LONG AXIS VERTICAL	18" AFF
2. SWITCHES:	LATCH SIDE OF DOOR	48" AFF

3.05 ENCLOSED SWITCHES AND CIRCUIT BREAKERS

A. PROVIDE DISCONNECTING MEANS FOR ALL POWERED EQUIPMENT THAT IS NOT FURNISHED WITH A CORD AND PLUG OR AN INTEGRAL DISCONNECT SWITCH.

3.07 GROUNDING SYSTEMS

A. ELECTRICAL DISTRIBUTION EQUIPMENT, RACEWAYS, ENCLOSURES, SUPPORTS, TRANSFORMERS, LUMINAIRES, ETC. SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

B. PROVIDE ALL BONDING CONDUCTORS, BUSHINGS, CLAMPS, ETC. REQUIRED FOR A COMPLETE SYSTEM.

C. PROVIDE EQUIPMENT GROUNDING CONDUCTORS FOR ALL FEEDERS AND BRANCH CIRCUITS.

D. GROUNDING CONNECTIONS SHALL HAVE CLEAN CONTACT SURFACES.

E. INSTALL ALL GROUNDING CONDUCTORS IN CONDUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

3.08 LUMINAIRES

A. COORDINATE CEILING SPACE AROUND LUMINAIRES WITH THE OTHER TRADES AND IDENTIFY ANY CONFLICTS WITH ARCHITECT/ENGINEER PRIOR TO ORDERING. MOUNT ALL OUTLETS AT POSITION AND HEIGHT TO CLEAR DUCTS, ETC.

END OF SECTION

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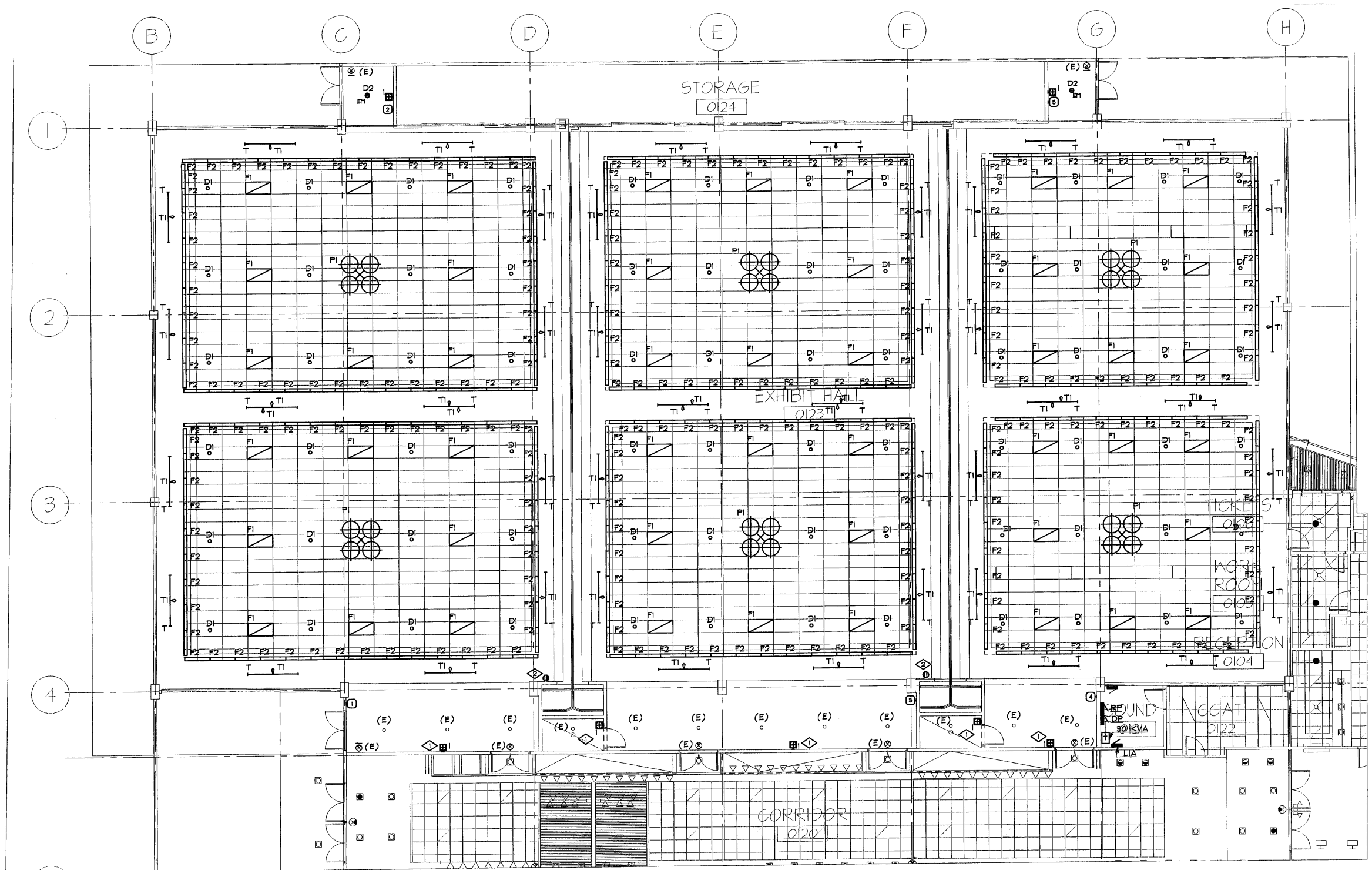
Checked by: LEY/CMP

E3.00



1 / E4.00 NORTH

ELECTRICAL PLAN ADD/ALTERNATE #3

1/8"=1'-0"

GENERAL NOTES

1. REMOVE ALL EXISTING LIGHTING AND LIGHTING CONTROLS IN EXHIBIT AREA. ALL LIGHTING AND LIGHTING CONTROLS ARE TO BE REMOVED BACK TO THE PANEL UNLESS NOTED AS (E), EXISTING TO REMAIN.
2. MOVE ALL LINEAR DIFFUSERS AND SPEAKERS THAT INTERFERE WITH LIGHTING.
3. LIGHTING CONTROLS SHALL BE ZONED THE SAME AS BASE BID. THIS BID WILL INCLUDE ADDITIONAL ZONES FOR THE COVE LIGHTING. EACH COVE WILL BE A ZONE. THIS WILL FORCE THE GRAFIK EYE CONTROLLERS TO BE INCREASED FROM AN 8 ZONE UNIT TO A 16 ZONE UNIT.
4. EXISTING PANEL HA IS IN THE MECHANICAL PENTHOUSE ON THE FLOOR ABOVE ON COLUMN LINE D5.

DETAIL NOTES

<1> REWORK EXISTING CIRCUITING TO CIRCUIT LIGHTS TO NEW MOTION SENSORS.

<2> PROVIDE CEILING MOUNTED RECEPTACLE FOR LUTRON PARTITION SENSOR. REFER TO LUTRON INSTALLATION INSTRUCTIONS FOR RECOMMENDED LOCATION FOR THE PARTITION SENSOR. MOUNT RECEPTACLE IN THAT LOCATION.

OCCUPANCY SENSOR SCHEDULE

KEY	DESCRIPTION	MFR. & CAT. NO.	Notes
	PASSIVE INFRARED WALL MOUNTED MOTION SENSOR, USER OVERRIDE	THE WATT STOPPER PW-100	

NOTES:
1.

LUMINAIRE SCHEDULE

22-Jan-08

KEY	DESCRIPTION	MANUFACTURER CATALOG NUMBER	LAMP QTY	LAMP TYPE	VOLTS	MOUNTING INFORMATION	NOTES	MAX VA
DI	COMPACT FLUORESCENT, 8" DIA. DOWNLIGHT, ELEC. DIMMING BALLAST	GOTHAM AF 2/42TRT BAR 277 ADEZ	2	CFTR42W/GX24Q/835	277	RECESSED GRID		99
D2	COMPACT FLUORESCENT, 6" DIA. DOWNLIGHT, ELEC. BALLAST	PRESCOLITE CFT632EB-STF602	1	CFTR32W/GX24Q/835	277	RECESSED GRID	1	36
F1	FLUORESCENT, 2X4 TROFFER ELEC. DIMMING BALLAST	LITHONIA 2RT5 54T5HO MVOLT ADEZ	2	F54W/T5/835	277	RECESSED GRID	2	125
F2	FLUORESCENT, 4' ASYMMETRIC COVE LIGHT, ELEC. DIMMING BALLAST	PRUDENTIAL LIGHTING SC IT8 04' 277 DM	1	F32T8/BPX835	277	SURFACE	4	35
PI	COMPACT FLUORESCENT, 87" DIA CHANDELIER, ELEC. DIMMING BALLAST	SPI LIGHTING AIP5036 24P26 HP01 BAL MOD 3' OAH	24	CFTR26W/GX24Q/835	277	PENDANT 3'-0" PL	4	698
T	8' TRACK WITH 300W CURRENT LIMITING DEVICE, SURFACE, WHITE	LIGHTOLIER 6002-WH, 6099WH, CLD300WH	--	--	120	SURFACE		300
TI	HALOGEN, ADJUSTABLE TRACK HEAD, WHITE, LOW VOLTAGE	LIGHTOLIER DR2L811WH	1	75PAR36/H/SP5	120/12	TRACK	3	75

MOUNTING ABBREVIATIONS

AFF - ABOVE FINISHED FLOOR
BFC - BELOW FINISHED CEILING
RFD - RECESSED FIXTURE DEPTH
BOF - BOTTOM OF FIXTURE
COF - CENTER OF FIXTURE
TOF - TOP OF FIXTURE
PL - PENDANT LENGTH
PH - POLE HEIGHT

NOTES:
1. FIXTURE TO MATCH EXISTING DOWNLIGHTS ON SOUTH ENTRY HALL. VERIFY MANUFACTURER AND MODEL NUMBER PRIOR TO ORDERING.
2. PROVIDE A BODINE EMERGENCY BALLAST FOR FIXTURES LABELED EM. WIRE FIXTURE SO THAT FIXTURE DIMS UNDER NORMAL CONDITIONS BUT 3 LAMPS GO TO FULL BRIGHT IN EM CONDITIONS. REFER TO INSTALLATION INSTRUCTIONS.
3. PROVIDE (1) REMOTE CONTROL UNIT FOR AIMING AND DIMMING FIXTURES, LIGHTOLIER #DRCP.
4. PROVIDE FIXTURE WITH MARK 10 DIMMING BALLAST.

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Issues/Revisions:	Date:
90% Construction Docs	01-04-08
100% Construction Docs	01-23-08

Two Rivers Convention Center
Exhibit Hall Partitions
Grand Junction, CO

SCD Project No.: 0106

ELECTRICAL PLAN ADD/ALTERNATE #3

Drawn by: KLY
Checked by: LEY/CMP

E4.00

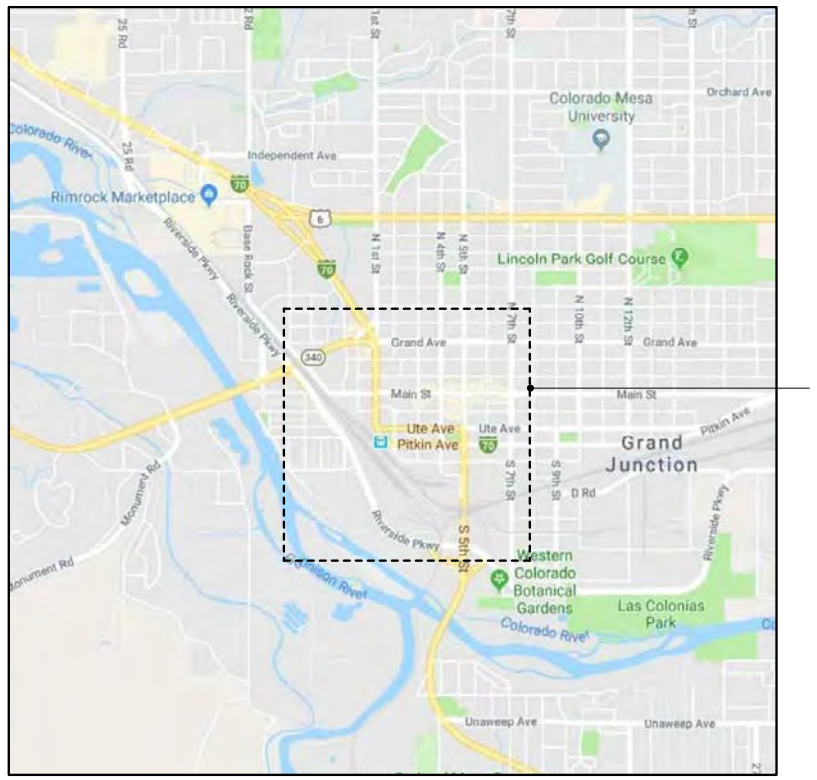
TRCC Current Remodel Drawings

TWO RIVERS CONVENTION CENTER - REMODEL

50% CONSTRUCTION DOCUMENTS

GRAND JUNCTION, COLORADO

LOCALITY MAP



VICINITY MAP

VICINITY MAP

PROJECT LOCATION

OWNER

CITY OF GRAND JUNCTION
250 North 5th Street
Grand Junction, CO 81501

DESIGN TEAM

ARCHITECT:

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(970) 242-6804

STRUCTURAL:

LINDAUER DUNN, INC
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(970) 241-0900

MECHANICAL / ELECTRICAL / PLUMBING:

MKK CONSULTING ENGINEERS, INC
7600 E Orchard Road Suite 250-S
Greenwood Village, CO 80111
(303) 796-6000

DRAWING LIST

GENERAL

G001	COVER SHEET

ARCHITECTURAL

A001	NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES
A002	CODE PLANS & CHECKLIST
A021	PARKING LEVEL DEMO PLAN
A022	FIRST FLOOR DEMO PLAN
A023	REFLECTED CEILING DEMO PLAN
A024	REFLECTED CEILING DEMO PLAN
A025	REFLECTED CEILING DEMO PLAN
A026	ROOF DEMO PLAN
A101	PARKING LEVEL PLAN
A102	PARKING LEVEL PLAN
A103	MAIN LEVEL PLAN
A121	REFLECTED CEILING PLAN
A122	REFLECTED CEILING PLAN
A123	REFLECTED CEILING PLAN
A124	ENLARGED REFLECTED CEILING PLAN
A141	ROOF PLAN
A142	ROOF PLAN
A161	INTERIOR FINISH PLAN
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A301	ENLARGED FLOOR PLAN
A401	INTERIOR ELEVATIONS
A402	INTERIOR ELEVATIONS
A403	INTERIOR ELEVATIONS
A404	INTERIOR ELEVATIONS
A405	INTERIOR ELEVATIONS
A406	INTERIOR ELEVATIONS
A407	INTERIOR ELEVATIONS
A408	INTERIOR ELEVATIONS
A409	INTERIOR ELEVATIONS
A410	INTERIOR ELEVATIONS
A411	INTERIOR ELEVATIONS
A412	INTERIOR ELEVATIONS
A413	INTERIOR ELEVATIONS
A414	INTERIOR ELEVATIONS
A415	INTERIOR ELEVATIONS
A416	INTERIOR ELEVATIONS
A417	INTERIOR ELEVATIONS
A418	INTERIOR ELEVATIONS
A419	INTERIOR ELEVATIONS
A420	INTERIOR ELEVATIONS
A501	WALL SECTIONS
A502	WALL SECTIONS
A503	WALL SECTIONS
A641	ROOF DETAILS
A701	DOOR TYPES & SCHEDULE
A702	DOOR DETAILS
A721	WINDOW TYPES
A722	WINDOW DETAILS

DRAWING LIST

STRUCTURAL

S001	GENERAL NOTES
S002	SCHEDULES OF SPECIAL INSPECTIONS
S021	FOUNDATION DEMOLITION PLAN
S022	MAIN LEVEL DEMOLITION PLAN
S023	LOW ROOF DEMOLITION PLAN
S101	FOUNDATION PLAN
S102	MAIN LEVEL FRAMING PLAN
S103	LOW ROOF FRAMING PLAN
S104	UPPER ROOF FRAMING PLAN

MECHANICAL

M000	MECHANICAL COVER SHEET
M011	PARKING LEVEL MECHANICAL DEMO PLAN
M021	FIRST FLOOR MECHANICAL DEMO PLAN
M031	ROOF MECHANICAL DEMO PLAN
M101	PARKING LEVEL MECHANICAL PLAN
M102	MAIN LEVEL MECHANICAL PLAN
M142	ROOF MECHANICAL PLAN
M300	ENLARGED PENTHOUSE MECHANICAL PLAN
M500	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES

PLUMBING

P011	PARKING LEVEL PLUMBING DEMO PLAN
P021	MAIN FLOOR PLUMBING DEMO PLAN
P101	PARKING LEVEL PLUMBING PLAN
P102	MAIN LEVEL PLUMBING PLAN
P142	ROOF PLUMBING PLAN
P601	PLUMBING SCHEDULES

ELECTRICAL

E000	ELECTRICAL COVER SHEET
E022	FIRST FLOOR LIGHTING DEMO PLAN
E023	FIRST FLOOR ELECTRICAL DEMO PLAN
E102	FIRST FLOOR LIGHTING PLAN
E201	PARKING LEVEL ELECTRICAL PLAN
E202	FIRST FLOOR POWER AND SYSTEMS PLAN
E242	ROOF POWER PLAN
E400	ELECTRICAL ONE-LINE DIAGRAM
E401	ELECTRICAL COMCHECK
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

COVER SHEET

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: G001

PROJECT NO: 1727

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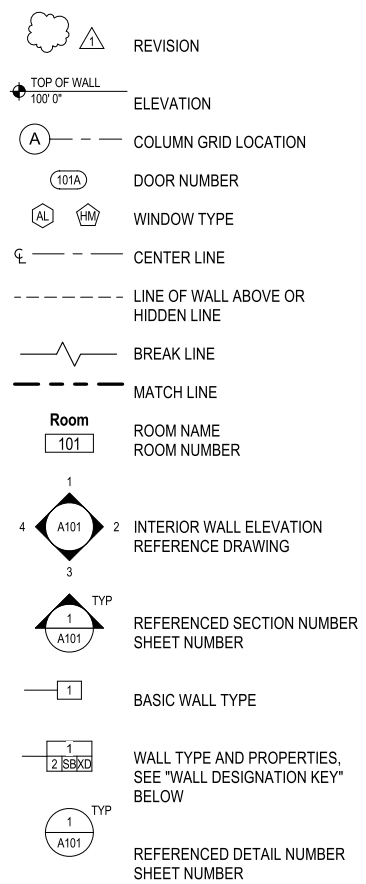
ARCHITECTURAL ABBREVIATIONS

ABV	above
ACC	accessories
AFF	above finished floor
ALT	alternate
AL	aluminum
APC	acoustical panel ceiling
ARCH	architect (ural)
ASPH	asphalt
A/C	air conditioning
BCS	baby changing station
BD	board
BLDG	building
BLKG	blocking
BO	bottom of
BRG	bearing
CBU	cemetitious backer unit
CG	corner guard
CJ	control joint
CLG	ceiling
CLR	clear (ance)
CMU	concrete masonry unit
COL	column
CONC	concrete
CONT	continuous or continue
CORR	corridor
CPT	carpet (ed)
CSMT	casement
CT	ceramic tile
CTR	center
CWOG	center wall on grid
DBL	double
DEMO	demolish / demolition
DF	drinking fountain
DIM	dimension (s)
DIR	direction
DISP	dispenser
DN	down
DR	door
DS	downspout
DTL	detail
DWG	drawing
DWR	drawer
E	east
EA	each
EC	evaporative cooler
EG	etched glass/glazing
EIFS	exterior insul finish sys
EJ	expansion joint
EL	elevation
ELEC	electric (al)
EM	emergency
EWC	electric water cooler
EWG	end wall corner guard
EQ	equal
EXG	existing
EXH	exhaust
EXP	exposed
EXT	exterior
FBO	furnished by owner
FD	floor drain
FDN	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FEP	finished end panel
FFE	finished floor elevation
FIN	finish
FLG	flashing
FLR	floor (ing)
FLUR	fluorescent
FO	face of
FRMG	framing
FRP	fiber reinforced plastic
FT	foot (feet)
FTG	footing
GA	gage, gauge
GAL	gallon
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass, glazing
GWB	gypsum wallboard
GYP	gypsum
HAS	headed anchor stud
HB	hose bibb
HCP	handicap (ed)
HDR	header
HDW	hardware
HM	hollow metal
HOR	horizontal
HSS	hollow structural sections
HT	height
HVAC	heating /ventilation / air conditioning
HWD	hardwood
INCL	include (d) (ing)
INSUL	insulate (d) (ing)
INT	interior
INV	invert
JST	joist
JT	joint
L	length, angle
LAM	laminate (d)
LAV	lavatory
LB	pound
LF	lineal foot
LG	laminated glass, glazing
LIN	linoleum
LT	light
MA	match
MAS	masonry
MATL	material
MAX	maximum
MB	marker board
MECH	mechanic (al)
MFR	manufacture (r) (d)
MH	manhole
MIN	minimum
MISC	miscellaneous
MLD	molding, moulding
MO	masonry opening
MT	mount (ed) (ing)
MTL	metal
N	north
N/A	not applicable
NIC	not in contract
NOM	nominal
NTS	not to scale
NECY	necessary
OC	on center (s)
OD	outside diameter
OFCI	owner furnished, contractor installed
OFD	overflow drain
OFOI	owner furnished, owner installed
OH	overhead
OL	occupant load
OLF	occupant load factor
OPG	opening
OPH	opposite hand
OPP	opposite
OSB	oriented strand board
OTS	open to structure
PB	particle board
PERF	perforate (d)
PERIM	perimeter
PLAM	plastic laminate
PLT	plate
PNL	panel
PNT	paint (ed)
PR	pair
PROJ	projector, projection
PSF	pounds per square foot
PSI	pounds per square inch
PT	pressure treated
PTD	paper towel dispenser
PTN	partition
PVC	polyvinyl cholride
PVMT	pavement
PWD	plywood
QT	quarry tile
R	riser, radius
RB	rubber base
REC	recycling
RCMD	recommend (ed) (ations)
RE	reference
REF	refrigerator
REIN	reinforce (d) (ing)
REQ	required
REV	revision (s), revised
RD	roof drain
RFG	roofing
RH	robe hook
RM	room
RO	rough opening
ROW	right of way
RR	restroom
RTU	roof top unit
RUB	rubber
S	south
SAG	susp acoustic grid
SC	shower curtain rod & hooks
SCH	schedule
SD	soap dispenser
SHT	sheet
SHTG	sheathing
SIM	similar
SND	sanitary napkin dispenser
SNV	sanitary napkin vendor
SPEC	specification
SPKR	speaker
SQ	square
SS	solid surface
SST	stainless steel
STD	standard
STL	steel
STOR	storage
STR	structural
SUSP	suspended
T	tread
TB	towel bar
TEL	telephone
T.O.	top of
TOC	top of concrete
TOS	top of steel
TOW	top of wall
TPD	toilet paper dispenser
TS	tube steel
TYP	typical
T&G	tongue and groove
UNO	unless noted otherwise
VB	vapor barrier
VCT	vinyl composition tile
VERT	vertical
VIF	verify in field
VM	vending machine
VNL	vinyl sheet
VTR	vent through roof
W	west, wide, width
W/	with
WB	wood base
WC	watercloset
WD	wood
WDW	window
WF	wide flange
WG	wire glass
W/O	without
WP	waterproof (ing)
WR	waste receptacle
WRB	weather resistive barrier
WWM	welded wire mesh

SYMBOLS



ANGLE

DIAMETER

PERPENDICULAR

PLATE

PLUS OR MINUS

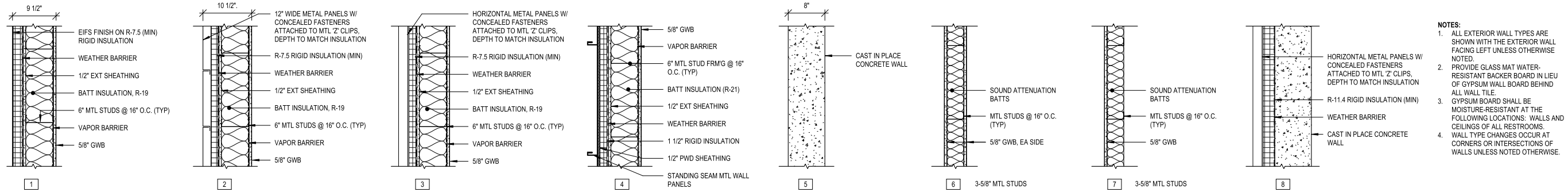
FLOOR DRAIN

FIRE EXTINGUISHER

GENERAL NOTES

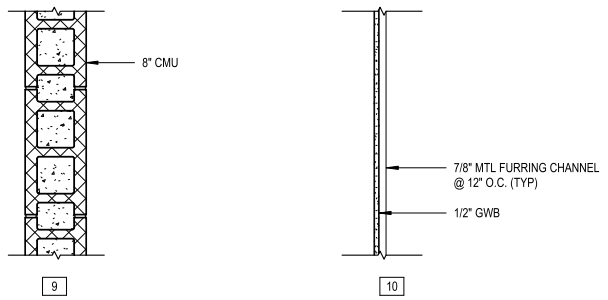
1. COMPLY WITH ALL MANUFACTURERS RECOMMENDATIONS AND INDUSTRY STANDARDS RELEVANT TO THE WORK HEREIN.
2. ALL DIMENSIONS ARE FROM FACE OF FINISH UNO.
3. ALL ALIGNMENTS ARE FACE OF FINISH UNO.
4. FIELD VERIFY ALL DIMENSIONS AND ROUGH OPENINGS PRIOR TO FABRICATION AND/OR INSTALLATION.

WALL TYPES



NOTES:

1. ALL EXTERIOR WALL TYPES ARE SHOWN WITH THE EXTERIOR WALL FACING LEFT UNLESS OTHERWISE NOTED.
2. PROVIDE GLASS MAT WATER-RESISTANT BACKER BOARD IN LIEU OF GYPSUM WALL BOARD BEHIND ALL WALL TILE.
3. GYPSUM BOARD SHALL BE MOISTURE-RESISTANT AT THE FOLLOWING LOCATIONS: WALLS AND CEILINGS OF ALL RESTROOMS.
4. WALL TYPE CHANGES OCCUR AT CORNERS OR INTERSECTIONS OF WALLS UNLESS NOTED OTHERWISE.



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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: **11/13/2018** SHEET NO: **A001**

PROJECT NO: **1727**

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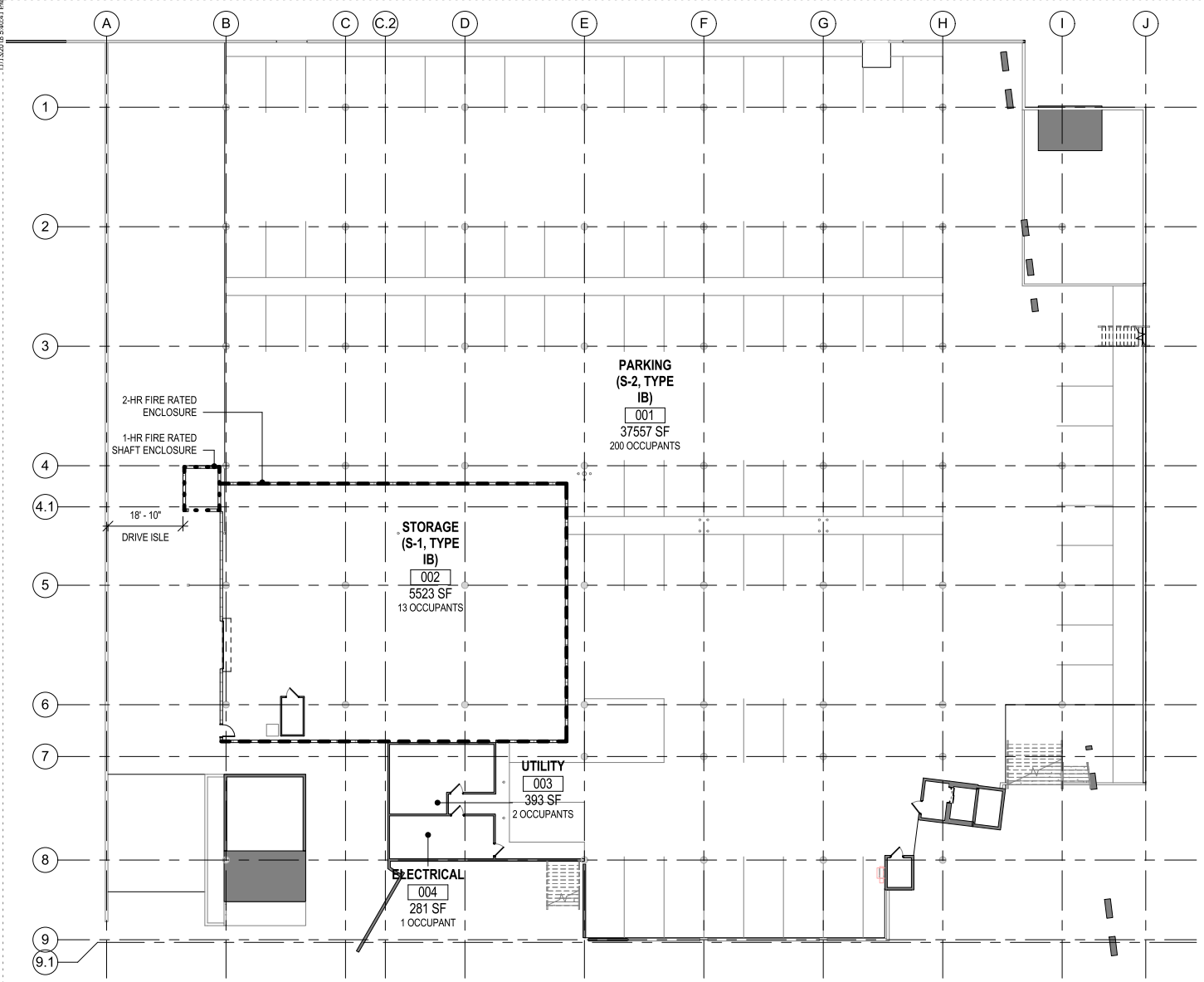
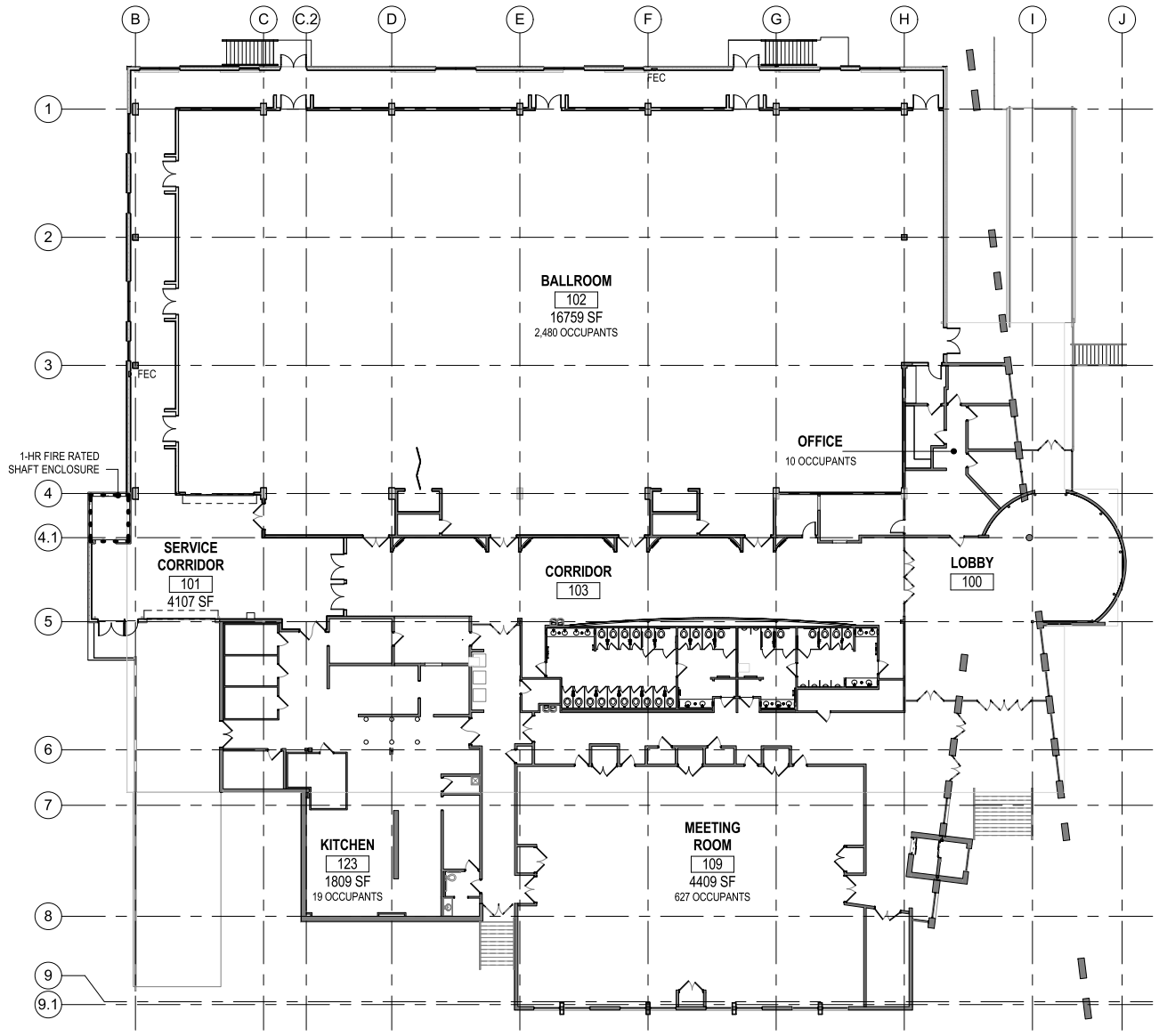


1 A002 PARKING LEVEL CODE PLAN

0' 10' 20'



2 A002 MAIN LEVEL CODE PLAN

0' 10' 20'

CODE CHECKLIST

CODES IN USE:

2012 INTERNATIONAL BUILDING CODE (IBC)
2012 INTERNATIONAL MECHANICAL CODE (IMC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2012 INTERNATIONAL PLUMBING CODE (IPC)
2012 INTERNATIONAL FUEL GAS CODE (IFGC)
2014 NATIONAL ELECTRICAL CODE (NEC)

TYPE OF OCCUPANCY:	PARKING LEVEL	GROUP S-2 & S-1 (SEPARATED PER TABLE 508.4)
	MAIN LEVEL	GROUP A-3
TYPE OF CONSTRUCTION:		
	PARKING LEVEL	TYPE I-B
	MAIN LEVEL	TYPE II-B
ALLOWABLE BUILDING AREA (A): (TABLE 503)		
	PARKING LEVEL	79,000 SF
	MAIN LEVEL	UNLIMITED (SECTION 507.6)
SITE SET BACKS		
FRONT YARD:		
SIDE YARD:		6'-10" TO PROPERTY LINE
REAR YARD:		3'-0" TO PROPERTY LINE
		60'+ TO PROPERTY LINE

ALLOWABLE AREA INCREASES

ALLOWABLE INCREASE FOR FRONTAGE: (SECTION 506.2)	PARKING LEVEL	MAIN LEVEL
	I = [F/P - 0.25] W/30	I = [F/P - 0.25] W/30
	I = [1 - 0.25] * 30/30 = **0.75**	I = [1 - 0.25] * 30/30 = **0.75**

TOTAL AREA INCREASES: A_a =[A +(A *If)]+(A *Is)	PARKING LEVEL	MAIN LEVEL
	A_a = {79,000 + [79,000 x 0.75] + [79,000 x 0]}	A_a = {6,000 + [6,000 x 0.75] + [6,000 x 2]}
	A_a = 79,000 + 59,250 SF PER STORY	A_a = 6,000 + 4,500 + 12,000 SF PER STORY
	A_a = 138,250 SF	**A_a = 22,500 SF**
AUTOMATIC SPRINKLER SYSTEM: (SECTION 506.3)	N/A	YES
ALLOWABLE INCREASE FOR MORE: THAN ONE STORY (SECTION 506.4)	N/A	N/A
TOTAL ALLOWABLE AREA:	138,250 SF	UNLIMITED (SECTION 507.6)
TOTAL PROVIDED AREA:	**43,750 SF**	**40,869 SF**
ALLOWABLE NUMBER OF STORIES: (504.2)	12	1
PROVIDED NUMBER OF STORIES:	**1**	**1**
EXIT ACCESS TRAVEL DISTANCE: (TABLE 1016.2)	200' ALLOWED	250' ALLOWED
INCIDENTAL USE AREA SEPARATION (508.2)		
FURNACE ROOM/BOILER ROOM	N/A	N/A
STORAGE (OVER 100 SF)	N/A	N/A
FIRE EXTINGUISHER	1 WITHIN 75 FT OF TRAVEL	1 WITHIN 75 FT OF TRAVEL

TOTAL OCCUPANT LOAD:	PARKING LEVEL	MAIN LEVEL
NUMBER OF EXITS REQUIRED FOR BUILDING (TABLE 1018.1):	2	
OCCUPANT LOAD:	**216**	**3,142**
WIDTH OF EXITS IN INCHES (SECTION 1005.1):	**65 IN**	**628.4" (720" PROVIDED)**

PLUMBING FIXTURE COUNTS:

BUSINESS OCCUPANCY (TABLE 2902.1)	REQUIRED	PROVIDED
MALE:		
WATER CLOSETS (1:25)	13	12
LAVATORIES (1:40)	8	7
FEMALE:		
WATER CLOSETS (1:25)	25	20
LAVATORIES (1:40)	8	6
SERVICE SINK:	1	1
DRINKING FOUNTAIN:	1	2

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

CODE PLANS & CHECKLIST

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A002

PROJECT NO: 1727

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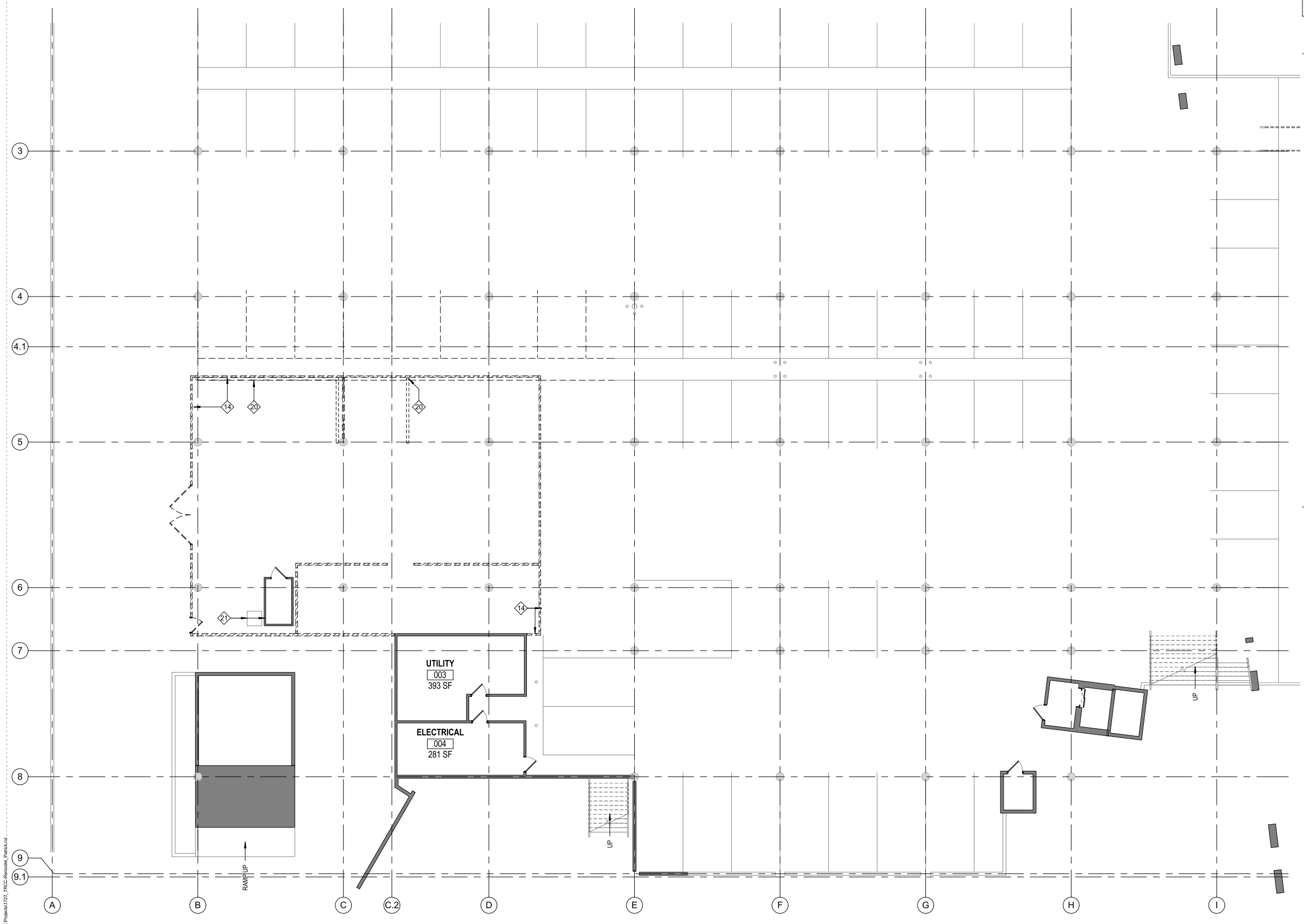

1 A021 PARKING LEVEL DEMO PLAN

0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY
5. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP.
6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
7. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
9. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING, TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
10. ITEMS NOT NOTED FOR DEMOLITION ARE TO BE PROTECTED FROM DAMAGE AND PREPARED TO RECEIVE NEW WORK. SURFACES TO REMAIN THAT ARE DAMAGED DURING THE PERFORMANCE OF REQUIRED DEMOLITION SHALL BE PATCHED AND/OR PAINTED TO MATCH EXISTING TO REMAIN ADJACENT SURFACES UNLESS NOTED OTHERWISE.
11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

FLOOR PLAN DEMO KEY NOTES ◇7

1. DEMO DOOR & FRAME & PREP OPENING FOR NEW WALL INFILL TO MATCH ADJACENT.
2. DEMO WALL SEGMENT & PREP CUT SURFACES TO RECEIVE NEW FINISH TO MATCH ADJACENT.
3. DEMO CONCESSIONS COUNTERTOP & ROLLING SHUTTER ASSEMBLY, TURN OVER TO OWNER.
4. DEMO WALL ASSEMBLY & DOORS. TURN DOORS OVER TO OWNER.
5. DEMO LIGHT FIXTURES, WALL & FLOOR CERAMIC TILE, COUNTERTOPS, VANITIES, TOILET PARTITIONS, WATER CLOSETS, TOILET ACCESSORIES & ADA HARDWARE, MIRRORS, PAPER TOWEL DISPENSERS & HAND DRYERS. CAP PLUMBING PIPES IN PLACE TO RECEIVE NEW FIXTURES & TERMINATE ELECTRICAL WIRING TO RECEIVE NEW FIXTURES. PREP WALLS TO RECEIVE NEW CERAMIC TILE WAINSCOT & PREP WALLS TO RECEIVE NEW PAINT & TILE WAINSCOT
6. DEMO SECTION OF LOADING DOCK CONCRETE GUARDRAIL.
7. DEMO STORAGE EXTERIOR WALLS, ROOF & ASSOCIATED STRUCTURE & DOORS. CONCRETE FLOOR SLAB TO REMAIN.
8. DEMO STAIRS, GUARD & HANDRAILS.
9. DEMO OPENING FOR NEW DOOR LOCATION.
10. SALVAGE CASEWORK & TURN OVER TO OWNER FOR RE-USE.
11. DEMO CARPET & BASE, CEILING TILES & LIGHT FIXTURES.
12. REMOVE DIVIDING PARTITIONS FOR FABRIC RE-COVERING.
13. DEMO WING WALLS & PREP CUT SURFACES FOR ADJACENT FINISH.
14. DEMO WOOD 2x4 WALLS. EXG LIGHT FIXTURES TO REMAIN.
15. DEMO WALLS. SALVAGE WALL CLADING & TURN OVER TO OWNER.
16. DEMO CONCRETE SLAB SILL TOPPING & PREP SURFACES TO RECEIVE NEW CONCRETE INFILL.
17. DEMO STL GUARD RAIL.
18. DEMO WOOD WALL CLADDING AND PREPARE WALL TO RECEIVE NEW WALL CLADDING
19. DEMO EXG DECORATIVE STEEL X-BRACES.
20. DEMO PLUMBING PIPING.
21. EXG WALK-IN COOLER & COMPRESSOR TO REMAIN.

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

PARKING LEVEL DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A021

PROJECT NO: 1727

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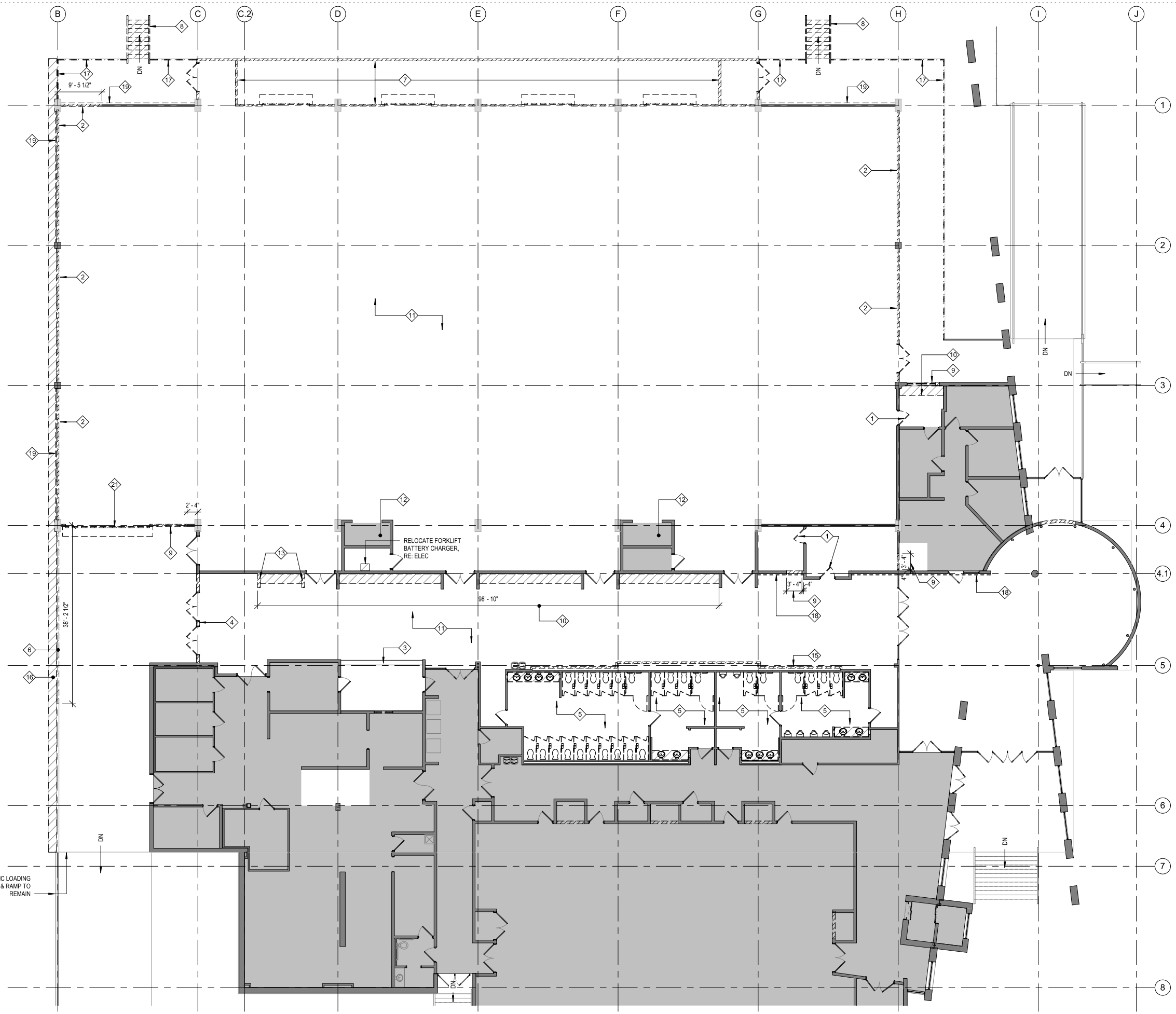

1 MAIN LEVEL DEMO PLAN (A022)
0 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY
5. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP.
6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
7. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION. REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
9. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING, TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
10. ITEMS NOT NOTED FOR DEMOLITION ARE TO BE PROTECTED FROM DAMAGE AND PREPARED TO RECEIVE NEW WORK. SURFACES TO REMAIN THAT ARE DAMAGED DURING THE PERFORMANCE OF REQUIRED DEMOLITION SHALL BE PATCHED AND/OR PAINTED TO MATCH EXISTING TO REMAIN ADJACENT SURFACES UNLESS NOTED OTHERWISE.
11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

FLOOR PLAN DEMO KEY NOTES (7)

1. DEMO DOOR & FRAME & PREP OPENING FOR NEW WALL INFILL TO MATCH ADJACENT.
2. DEMO WALL SEGMENT & PREP CUT SURFACES TO RECEIVE NEW FINISH TO MATCH ADJACENT.
3. DEMO CONCESSIONS COUNTERTOP & ROLLING SHUTTER ASSEMBLY, TURN OVER TO OWNER.
4. DEMO WALL ASSEMBLY & DOORS. TURN DOORS OVER TO OWNER.
5. DEMO LIGHT FIXTURES, WALL & FLOOR CERAMIC TILE, COUNTERTOPS, VANITIES, TOILET PARTITIONS, WATER CLOSETS, TOILET ACCESSORIES & ADA HARDWARE, MIRRORS, PAPER TOWEL DISPENSERS & HAND DRYERS. CAP PLUMBING PIPES IN PLACE TO RECEIVE NEW FIXTURES & TERMINATE ELECTRICAL WIRING TO RECEIVE NEW FIXTURES. PREP WALLS TO RECEIVE NEW CERAMIC TILE WAINSCOT & PREP WALLS TO RECEIVE NEW PAINT & TILE WAINSCOT.
6. DEMO SECTION OF LOADING DOCK CONCRETE GUARDRAIL.
7. DEMO STORAGE EXTERIOR WALLS, ROOF & ASSOCIATED STRUCTURE & DOORS. CONCRETE FLOOR SLAB TO REMAIN.
8. DEMO STAIRS, GUARD & HANDRAILS.
9. DEMO OPENING FOR NEW DOOR LOCATION.
10. SALVAGE CASEWORK & TURN OVER TO OWNER FOR RE-USE.
11. DEMO CARPET & BASE, CEILING TILES & LIGHT FIXTURES.
12. REMOVE DIVIDING PARTITIONS FOR FABRIC RE-COVERING.
13. DEMO WING WALLS & PREP CUT SURFACES FOR ADJACENT FINISH.
14. DEMO WOOD 2x4 WALLS. EXG LIGHT FIXTURES TO REMAIN.
15. DEMO WALLS. SALVAGE WALL CLADING & TURN OVER TO OWNER.
16. DEMO CONCRETE SLAB SILL TOPPING & PREP SURFACES TO RECEIVE NEW CONCRETE INFILL.
17. DEMO STL GUARD RAIL.
18. DEMO WOOD WALL CLADDING AND PREPARE WALL TO RECEIVE NEW WALL CLADDING
19. DEMO EXG DECORATIVE STEEL X-BRACES.
20. DEMO PLUMBING PIPING.
21. EXG WALK-IN COOLER & COMPRESSOR TO REMAIN.

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

FIRST FLOOR DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A022

PROJECT NO: 1727

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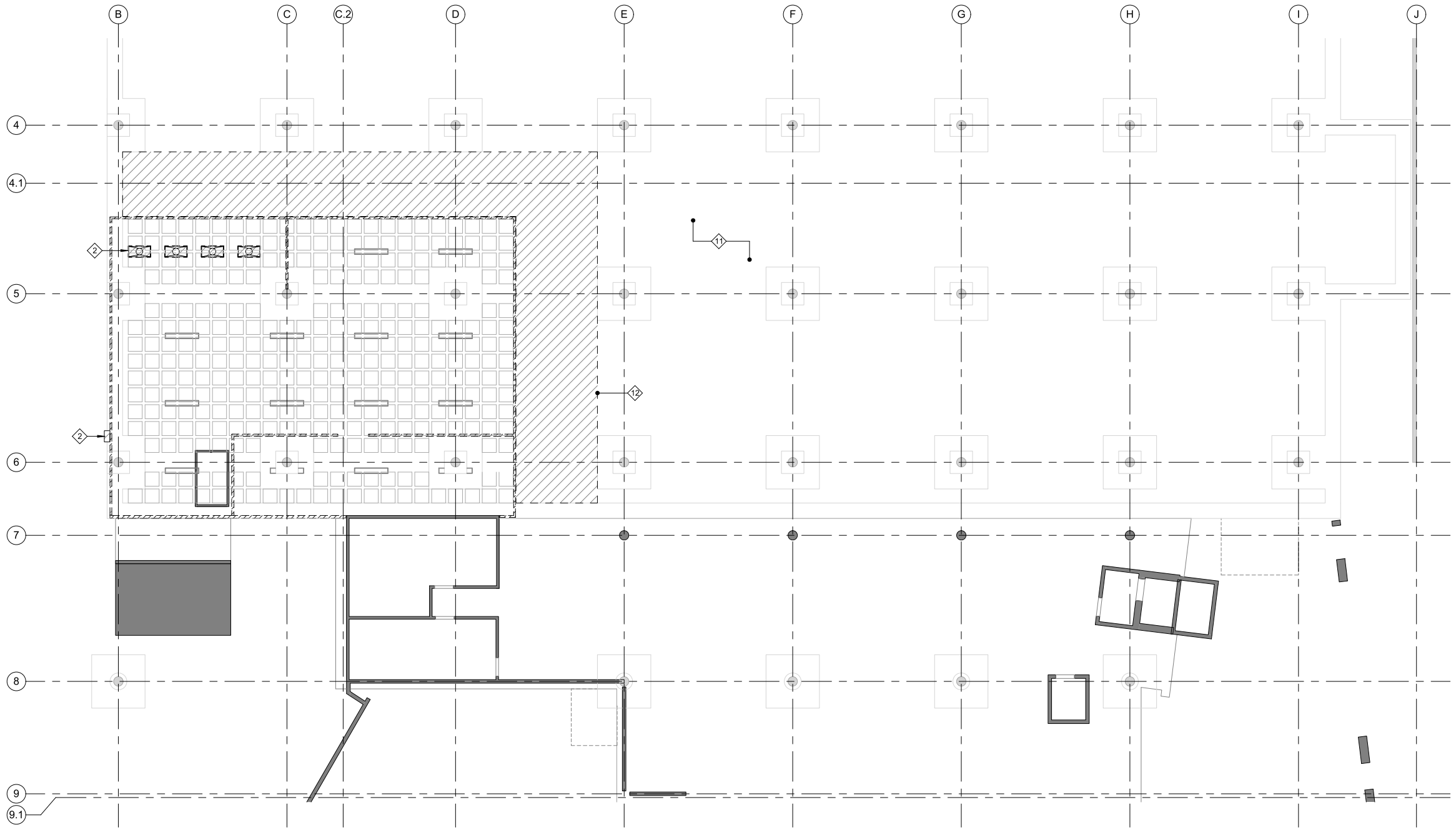

1 A023 PARKING LEVEL REFLECTED CEILING DEMO PLAN

0' 8' 16'

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY
5. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP.
6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
7. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
9. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING, TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
10. ITEMS NOT NOTED FOR DEMOLITION ARE TO BE PROTECTED FROM DAMAGE AND PREPARED TO RECEIVE NEW WORK. SURFACES TO REMAIN THAT ARE DAMAGED DURING THE PERFORMANCE OF REQUIRED DEMOLITION SHALL BE PATCHED AND/OR PAINTED TO MATCH EXISTING TO REMAIN ADJACENT SURFACES UNLESS NOTED OTHERWISE.
11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

REFLECTED CEILING PLAN DEMO KEY NOTES

1. DEMO HVAC DIFUSSERS & RETURNS, RE: MECH (TYP)
2. DEMO LIGHT FIXTURES, RE: ELEC (TYP)
3. DEMO CEILING MOUNTED SPEAKERS, RE: AV (TYP)
4. DRYWALL SOFFIT S & BULKHEAD TO REAMIN
5. DEMO CEILING TILES & GRID (TYP)
6. DEMO HVAC DIFFUSERS & EXHAUSTS, RE: MECH (TYP)
7. DEMO SUSPENDED MTL PANEL CEILING FEATURE
8. DEMO EXTERIOR FASCIA & SOFFIT INCLUDING FINISH FRM'G. RE: STR FOR STRUCTURAL MEMBERS
9. DEMO ALL CEILING FINISHES & ASSOCIATED FRM'G MEMBERS, RE: STR
10. DEMO TRACK LIGTHING, RE: ELEC
11. EXG RIGID INSULATION OVER CONC WAFFLE SLAB STRUCTURE TO REMAIN
12. DEMO RIGID INSULATION IN INDICATED AREA
13. REMOVE & SALVAGE CLG TILE & GRID FOR RE-INSTALLATION
14. DEMO GWB CLG & FRM'G TO ALLOW FOR MECH WORK, RE: MECH

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO:

PROJECT NO: 1727 **A023**

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1 A024 MAIN LEVEL REFLECTED CEILING DEMO PLAN - NORTH

0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY
5. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP
6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
7. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
9. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING, TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
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11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

REFLECTED CEILING PLAN DEMO KEY NOTES

1. DEMO HVAC DIFUSSERS & RETURNS, RE: MECH (TYP)
2. DEMO LIGHT FIXTURES, RE: ELEC (TYP)
3. DEMO CEILING MOUNTED SPEAKERS, RE: AV (TYP)
4. DRYWALL SOFFIT S & BULKHEAD TO REAMIN
5. DEMO CEILING TILES & GRID (TYP)
6. DEMO HVAC DIFFUSERS & EXHAUSTS, RE: MECH (TYP)
7. DEMO SUSPENDED MTL PANEL CEILING FEATURE
8. DEMO EXTERIOR FASCIA & SOFFIT INCLUDING FINISH FRM'G. RE: STR FOR STRUCTURAL MEMBERS
9. DEMO ALL CEILING FINISHES & ASSOCIATED FRM'G MEMBERS, RE: STR
10. DEMO TRACK LIGTHING, RE: ELEC
11. EXG RIGID INSULATION OVER CONC WAFFLE SLAB STRUCTURE TO REMAIN
12. DEMO RIGID INSULATION IN INDICATED AREA
13. REMOVE & SALVAGE CLG TILE & GRID FOR RE-INSTALLATION
14. DEMO GWB CLG & FRM'G TO ALLOW FOR MECH WORK, RE: MECH

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO:

PROJECT NO: 1727 **A024**

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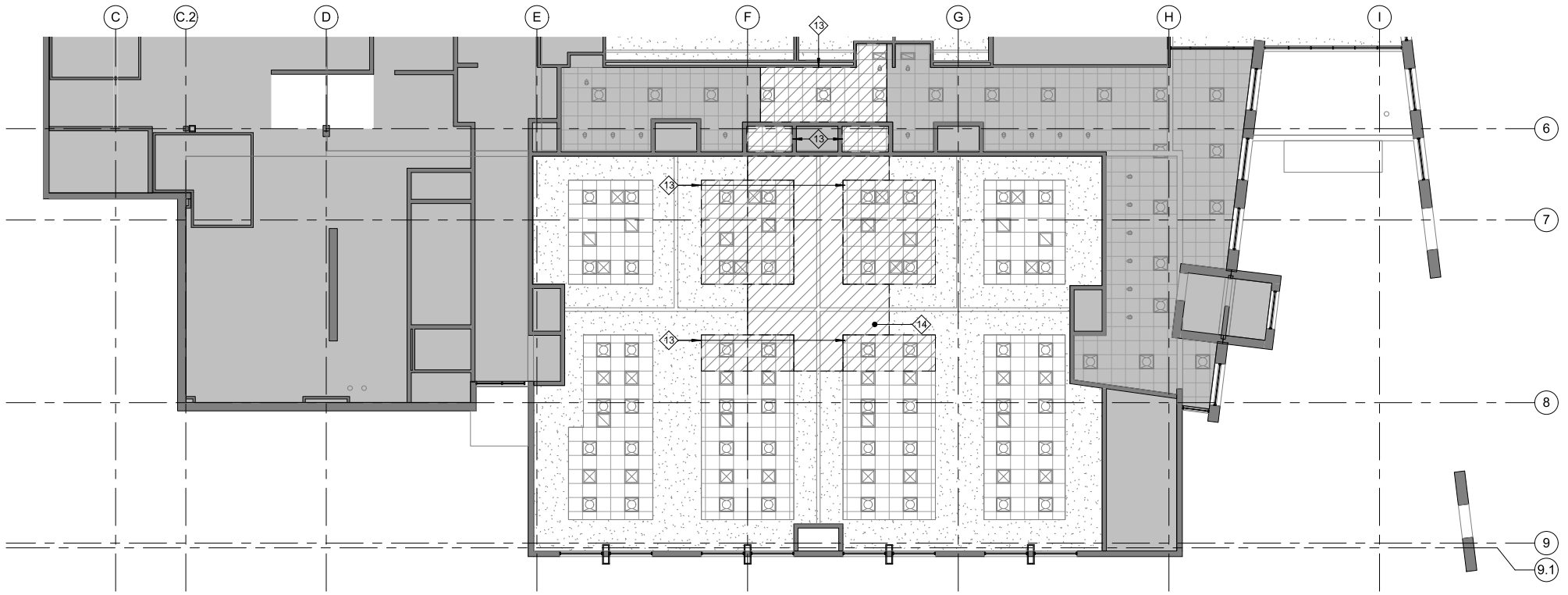

1 A025 MAIN LEVEL REFLECTED CEILING DEMO PLAN - SOUTH

0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY
5. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP.
6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
7. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
9. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING, TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
10. ITEMS NOT NOTED FOR DEMOLITION ARE TO BE PROTECTED FROM DAMAGE AND PREPARED TO RECEIVE NEW WORK. SURFACES TO REMAIN THAT ARE DAMAGED DURING THE PERFORMANCE OF REQUIRED DEMOLITION SHALL BE PATCHED AND/OR PAINTED TO MATCH EXISTING TO REMAIN ADJACENT SURFACES UNLESS NOTED OTHERWISE.
11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

REFLECTED CEILING PLAN DEMO KEY NOTES 7

1. DEMO HVAC DIFUSSERS & RETURNS, RE: MECH (TYP)
2. DEMO LIGHT FIXTURES; RE: ELEC (TYP)
3. DEMO CEILING MOUNTED SPEAKERS, RE: AV (TYP)
4. DRYWALL SOFFIT S & BULKHEAD TO REAMIN
5. DEMO CEILING TILES & GRID (TYP)
6. DEMO HVAC DIFFUSERS & EXHAUSTS, RE: MECH (TYP)
7. DEMO SUSPENDED MTL PANEL CEILING FEATURE
8. DEMO EXTERIOR FASCIA & SOFFIT INCLUDING FINISH FRM'G. RE: STR FOR STRUCTURAL MEMBERS
9. DEMO ALL CEILING FINISHES & ASSOCIATED FRM'G MEMBERS, RE: STR
10. DEMO TRACK LIGTHING, RE: ELEC
11. EXG RIGID INSULATION OVER CONC WAFFLE SLAB STRUCTURE TO REMAIN
12. DEMO RIGID INSULATION IN INDICATED AREA
13. REMOVE & SALVAGE CLG TILE & GRID FOR RE-INSTALLATION
14. DEMO GWB CLG & FRM'G TO ALLOW FOR MECH WORK, RE: MECH

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A025

PROJECT NO: 1727

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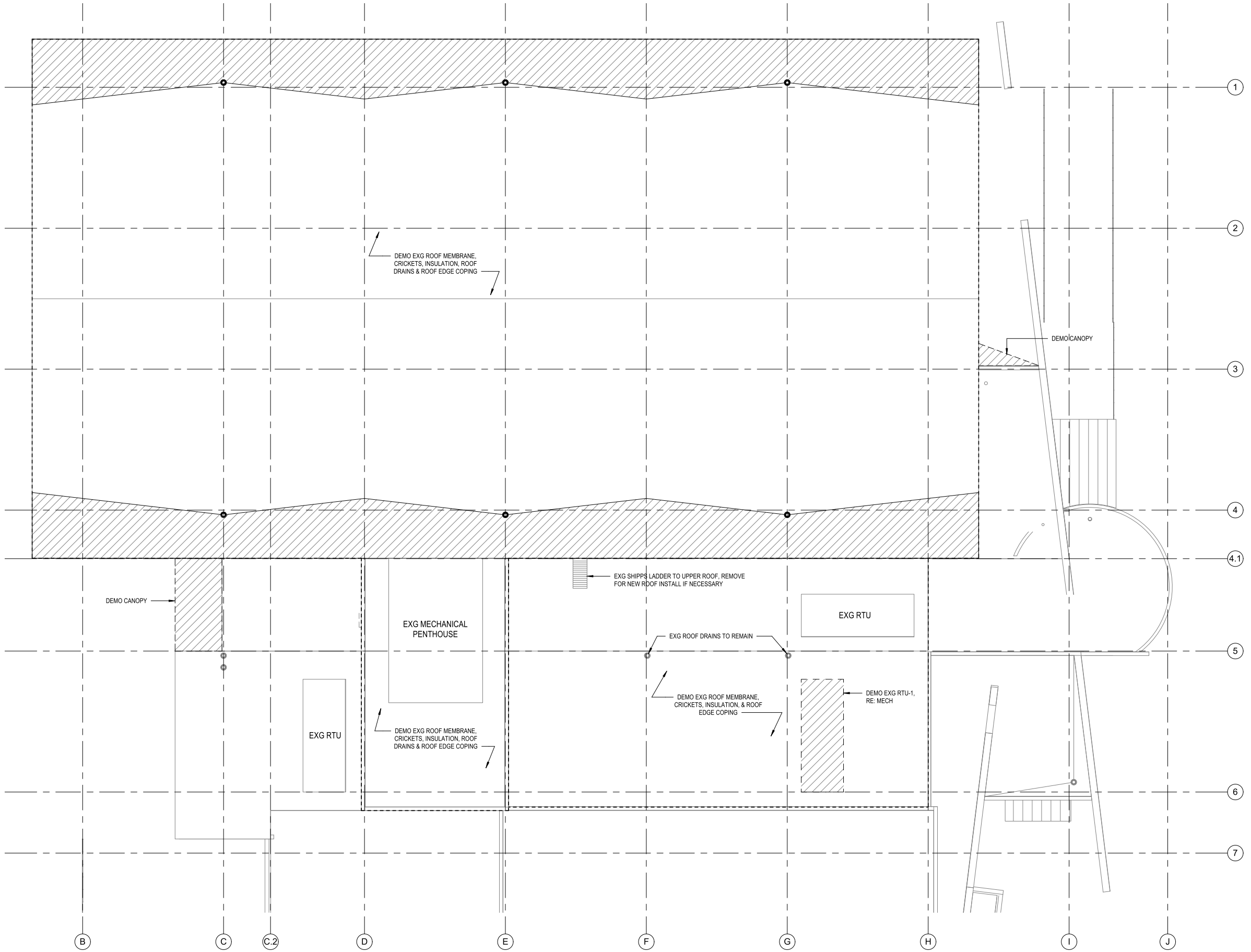

1 A026 ROOF DEMO PLAN

0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL ROOF DEMOLITION NOTES

1. INFILL EXISTING ROOF OPENINGS THAT ARE NOT TO BE REUSED AS PER STRUCTURAL.
2. REMOVE DRY ROTTED, MOLDED OR STRUCTURALLY UNACCEPTABLE DAMAGED WOOD FRAMING MEMBERS AND DECKING AND REPLACE AS PER STRUCTURAL.
3. REMOVED ROTTED PERIMETER ROOF EDGE BLOCKING AND REPLACE AS PER NEW ROOF DETAILS.
4. REMOVE ANY REMAINING STEEL FRAMING FROM OLD MECHANICAL UNIT SUPPORTS FROM ROOF.
5. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.

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ROOF DEMO PLAN

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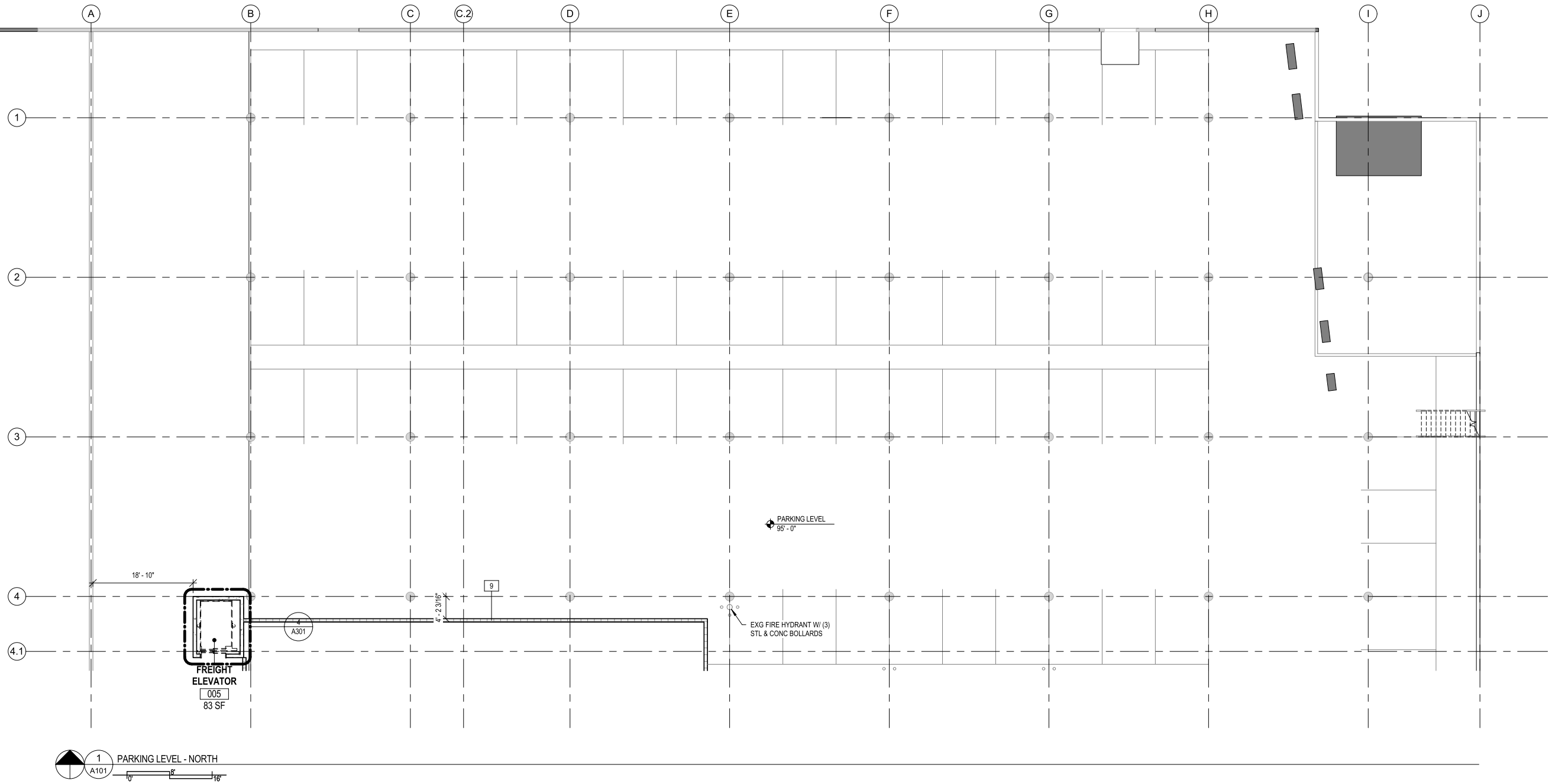

1 A101 PARKING LEVEL - NORTH

0' 8' 16'

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PARKING LEVEL PLAN

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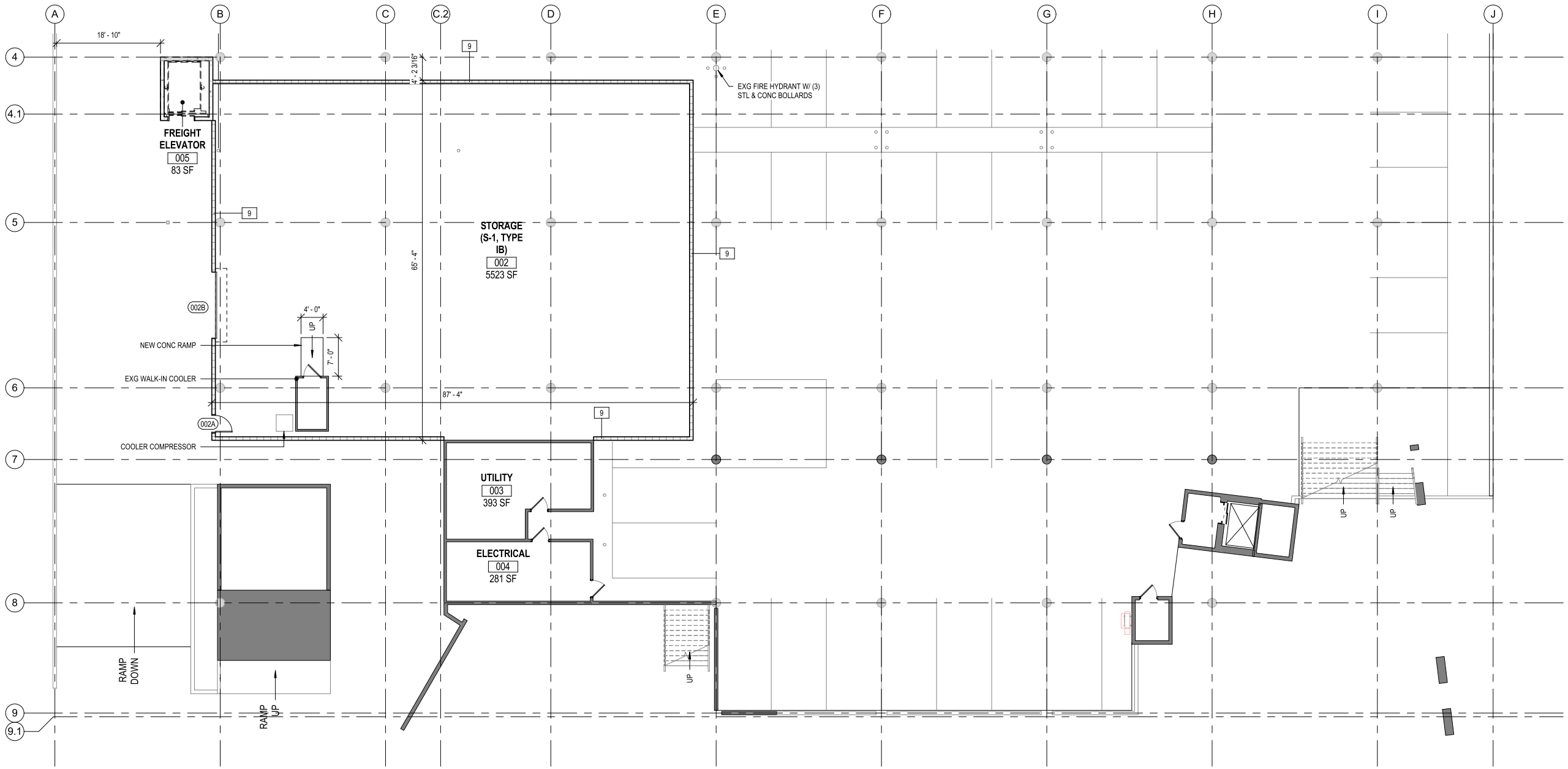

1 A102 PARKING LEVEL - SOUTH

0 8' 16'

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PARKING LEVEL PLAN

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PROJECT NO: 1727

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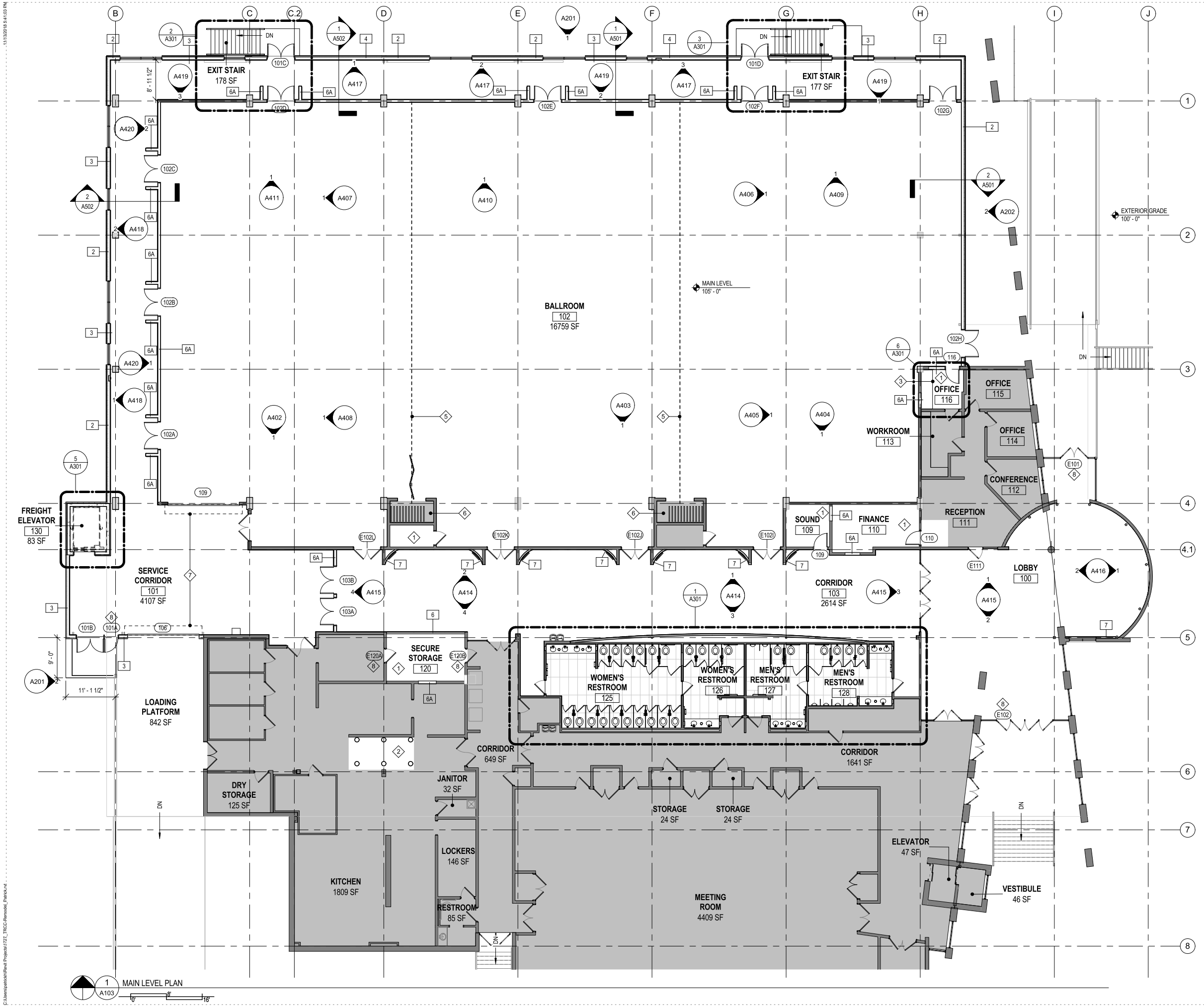

1 MAIN LEVEL PLAN
A103
0' 8' 16'

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN
- NEW WALL
- NEW ITEM

GENERAL NEW CONSTRUCTION NOTES

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUING CONSTRUCTION.
2. ITEMS NOT NOTED ON THE DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME MANNER.
3. PROVIDE TREATED SOLID WOOD BLOCKING FOR ALL WALL EQUIPMENT, TOILET ACCESSORIES, MILLWORK AND OTHER WALL MOUNTED ITEMS. SEE ELEVATIONS AND EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL CAULK AT THE INTERFACE OF INTERIOR FACES OF DOOR FRAMES WITH ADJACENT MATERIALS THOUGH JOINT MAY NOT BE VISIBLE.
5. WHERE EXISTING FINISHES ARE REQUIRED TO BE REMOVED TO INSTALL NEW FINISHES, PATCH AND REPAIR WALL SURFACES TO ACCEPT NEW FINISHES AND CONCEAL ALL TRANSITIONS.
6. MAINTAIN RATINGS OF EXISTING WALLS. PATCH AND REPAIR ANY NEW OR EXISTING OPENINGS IN RATED WALLS WITH UL ASSEMBLY APPROVED FOR PENETRATING ITEM AND WALL ASSEMBLY.
7. PROVIDE TRANSITION STRIPS BETWEEN FLOOR MATERIALS OF DISSIMILAR HEIGHTS. CENTER TRANSITION STRIPS UNDER DOORS OR OTHER PLACES OUT OF SIGHT.
8. NEW HM DOOR FRAMES SHALL MATCH EXISTING FOR PROFILE AND CONSTRUCTION.
9. RECONFIGURE SPRINKLER HEADS AS REQUIRED BY CODE.
10. RECONFIGURE FIRE ALARM DEVICES AS PER THE ELECTRICAL CODE OR AS INDICATED. PROVIDE NEW FIRE ALARM DEVICES IF EXISTING ARE NOT OPERATIONAL.
11. NEW RATED STUD WALLS ARE TO BE GA #WP 1072- 1HR RATED WITH 3-1/2" FIBERGLASS BATTS WITH A 47 STC.
12. FIELD VERIFY EXISTING CORRIDOR WALLS AND ROOM SEPARATION WALLS ARE 1HR RATED (WP 1072) WITH REQUIRED PENETRATION FIRESTOPPING. WHERE THESE WALLS DO NOT CURRENTLY MEET THE REQUIRED RATING MODIFY WALL TO MEET UL ASSEMBLY FOR 1HR WP 1072 OR EQUAL WITH SOUND BATTS.
13. FINISHES SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
14. DUE TO SLAB CONSTRUCTION REUSE EXISTING WASTE PIPING IN FLOOR. CAP ALL UNUSED WASTE PIPING AT OR BELOW FLOOR LEVEL SO THAT FLOOR FINISHES CAN BE INSTALLED.
15. MAIN STRUCTURE IS EXISTING AND THE CONFIGURATION OF THE SUPPORTING FOUNDATIONS ARE UNKNOWN. CONTRACTOR SHALL MAKE MODIFICATIONS AS NEEDED TO THE UNDERSLAB PLUMBING ROUTING TO MAINTAIN THE INTEGRITY OF THE STRUCTURE. ALL MODIFICATIONS THAT IMPACT THE LOCATION OF PLUMBING FIXTURES MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
16. PROVIDE POSITIVE SLOPE ON ALL FLOOR DRAINS, MINIMUM OF 1/8" PER FOOT. SLOPE FLOOR ALL AROUND FROM ADJACENT WALLS TO FLOOR DRAINS, DO NOT DEPRESS ONLY THE AREA IMMEDIATELY AROUND THE DRAIN.
17. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR THE LOCATIONS OF PIPING, VENTS, DUCTS, CURBS, FANS AND OTHER ITEMS WHICH PENETRATE THE ROOF PLANE.
18. DOOR JAMB LOCATION OFF FACE OF WALL IS 4", TYPICAL, UNLESS NOTED OTHERWISE.

FLOOR PLAN KEY NOTES

1. PATCH, REPAIR & RE-PAINT WALLS. REPLACE ANY SEGMENTED WALL BASE SECTIONS (WHERE DOORS HAVE BEEN DEMOLISHED) WITH FULL RUNS
2. ELECTRICAL CEILING WORK, RE: ELEC
3. NEW PLAM COUNTERTOP W/ STL WALL SUPPORT BRACKETS
4. RELOCATED FORKLIFT BATTERY, RE: ELEC
5. EXG SPACE PARTITIONS, RE-COOVER W/ NEW FABRIC
6. EXG SPACE PARTITION CLOSETS
7. NEW OVERHEAD DOORS, RE: DOOR SCHD
8. ACCESS CONTROL HARDWARE, RE: DOOR SCHD

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

MAIN LEVEL PLAN

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PROJECT STATUS: 50%
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DATE: 11/13/2018 SHEET NO: A103

PROJECT NO: 1727

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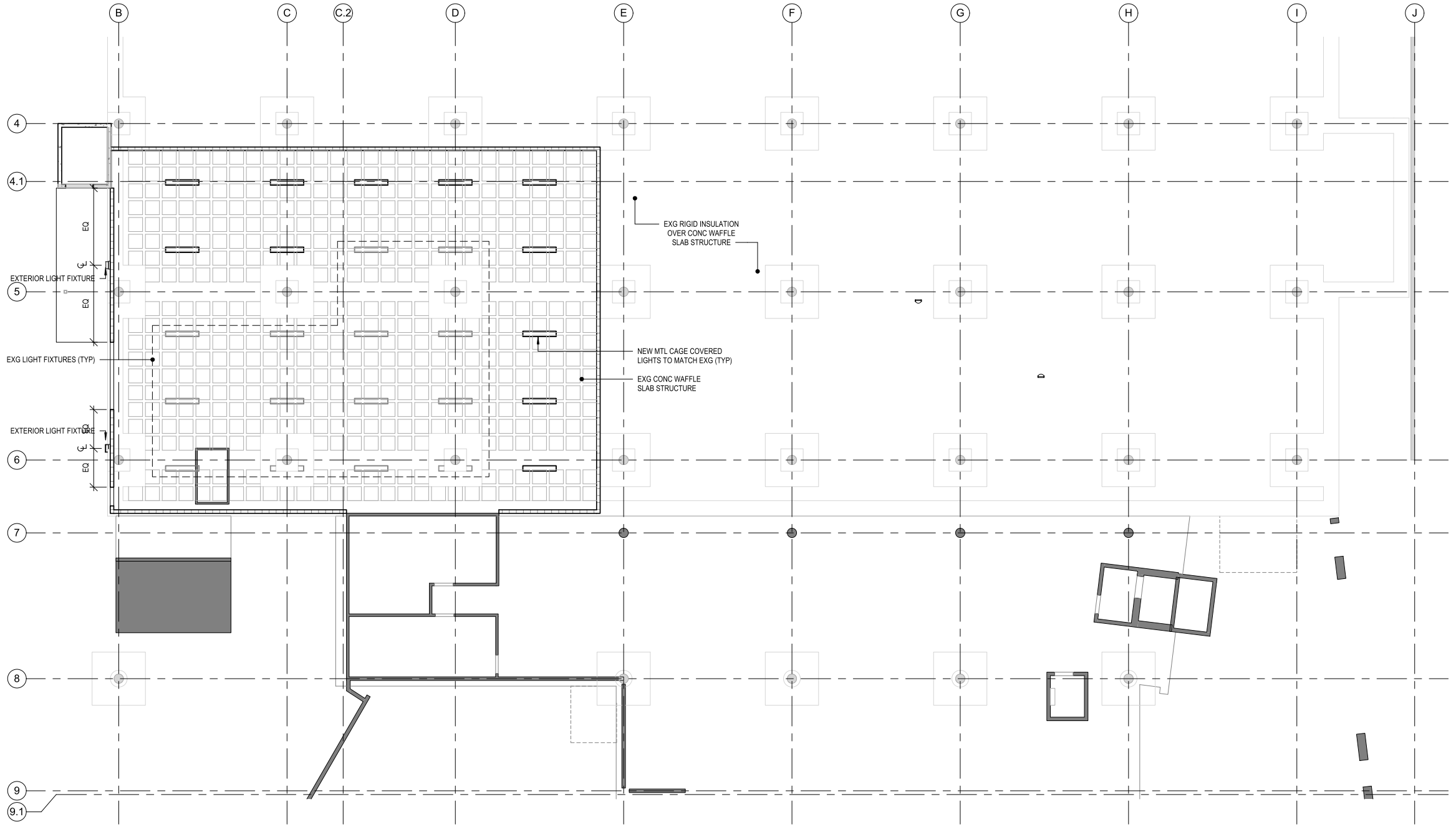

1 A121 PARKING LEVEL REFLECTED CEILING PLAN

0' 8' 16'

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING PLAN

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PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A121

PROJECT NO: 1727

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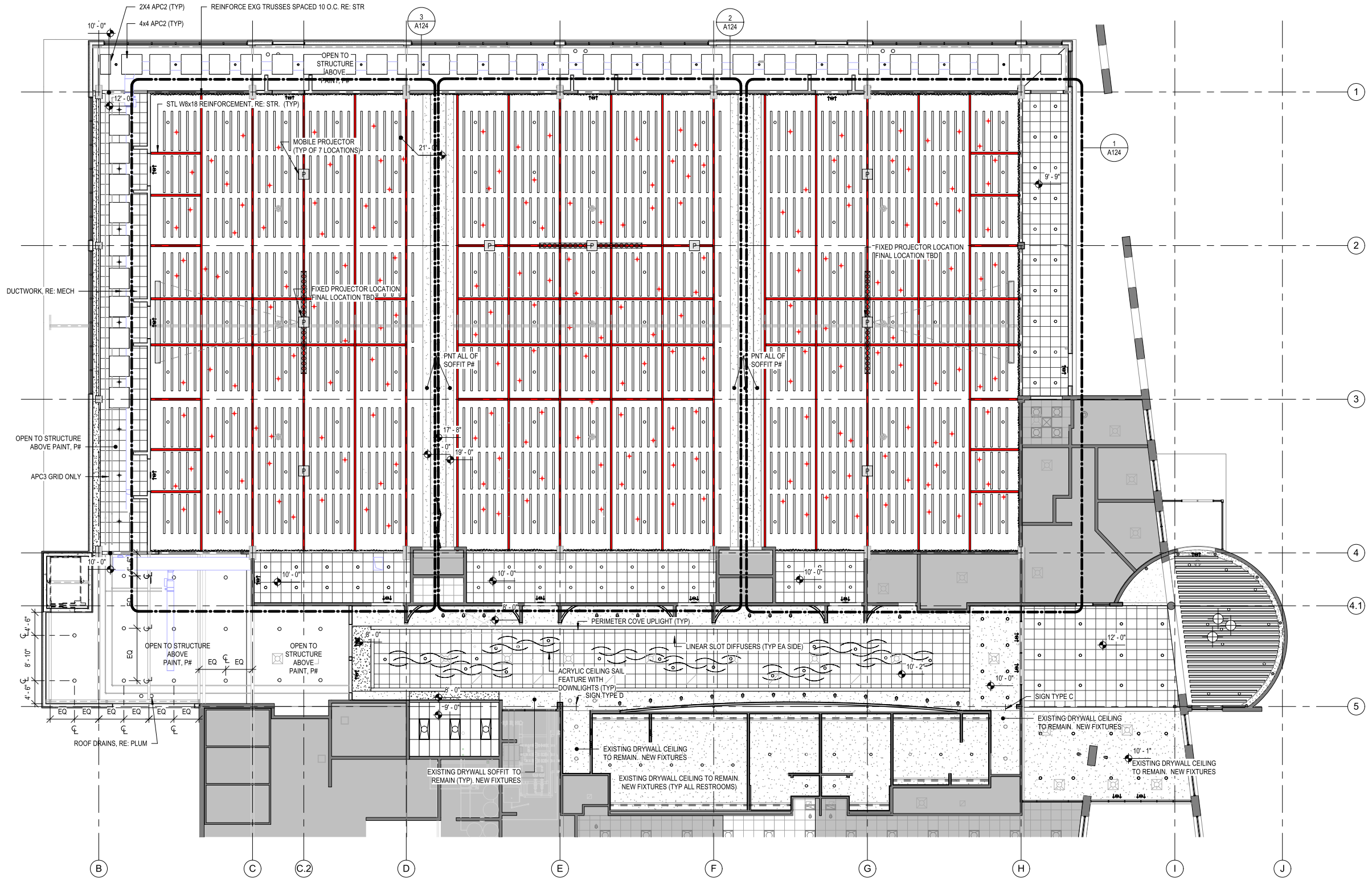

1 A122 MAIN LEVEL REFLECTED CEILING PLAN - NORTH

0' 8' 16'

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"). LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P — CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S — CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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GRAND JUNCTION, COLORADO

REFLECTED CEILING PLAN

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PROJECT STATUS: 50% CD

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DATE: 11/13/2018 SHEET NO: A122

PROJECT NO: 1727

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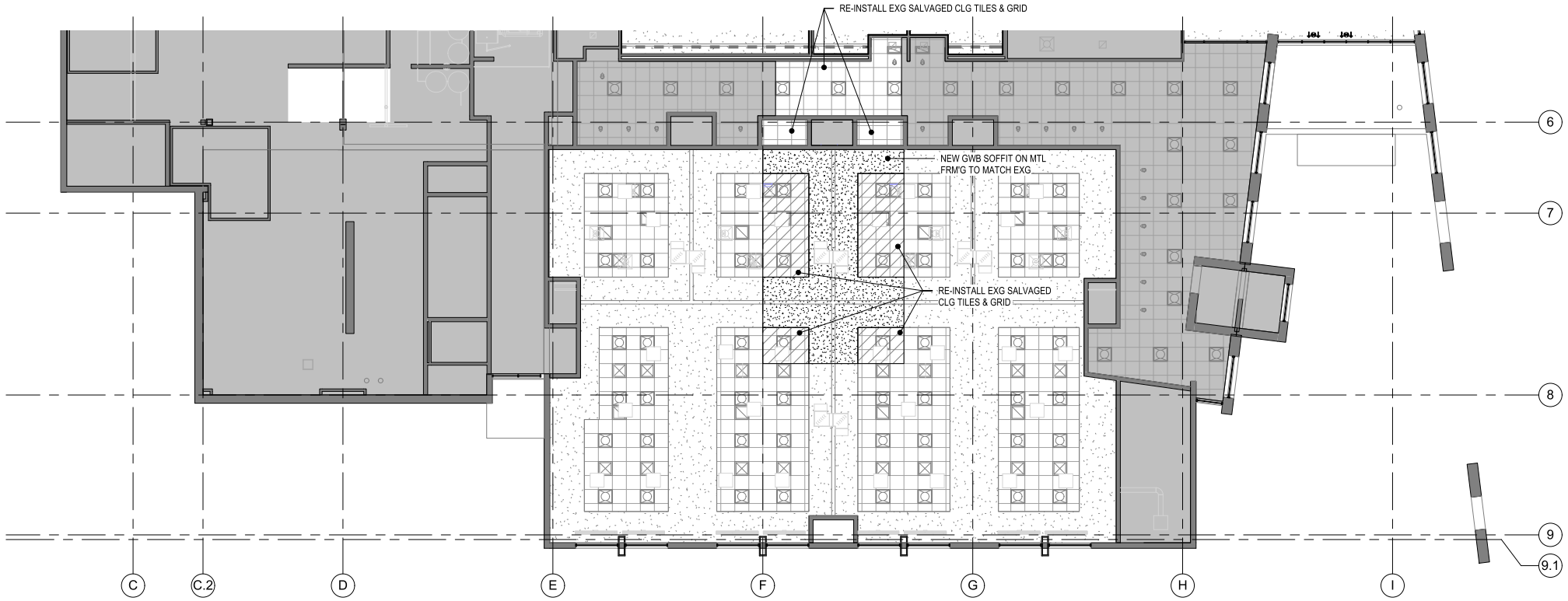

1 A123 MAIN LEVEL REFLECTED CEILING PLAN - SOUTH

0 8' 16'

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
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DRAWN BY: CS, PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO:

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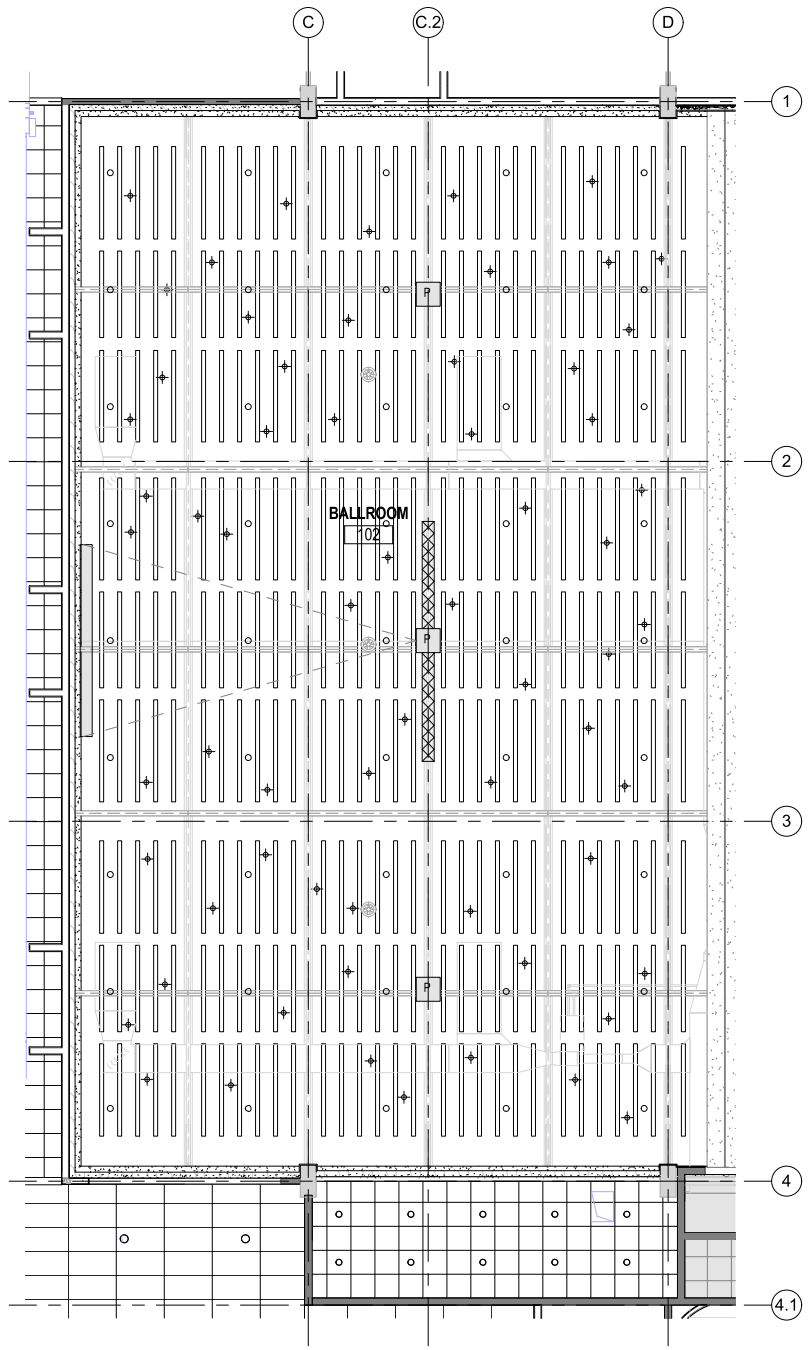
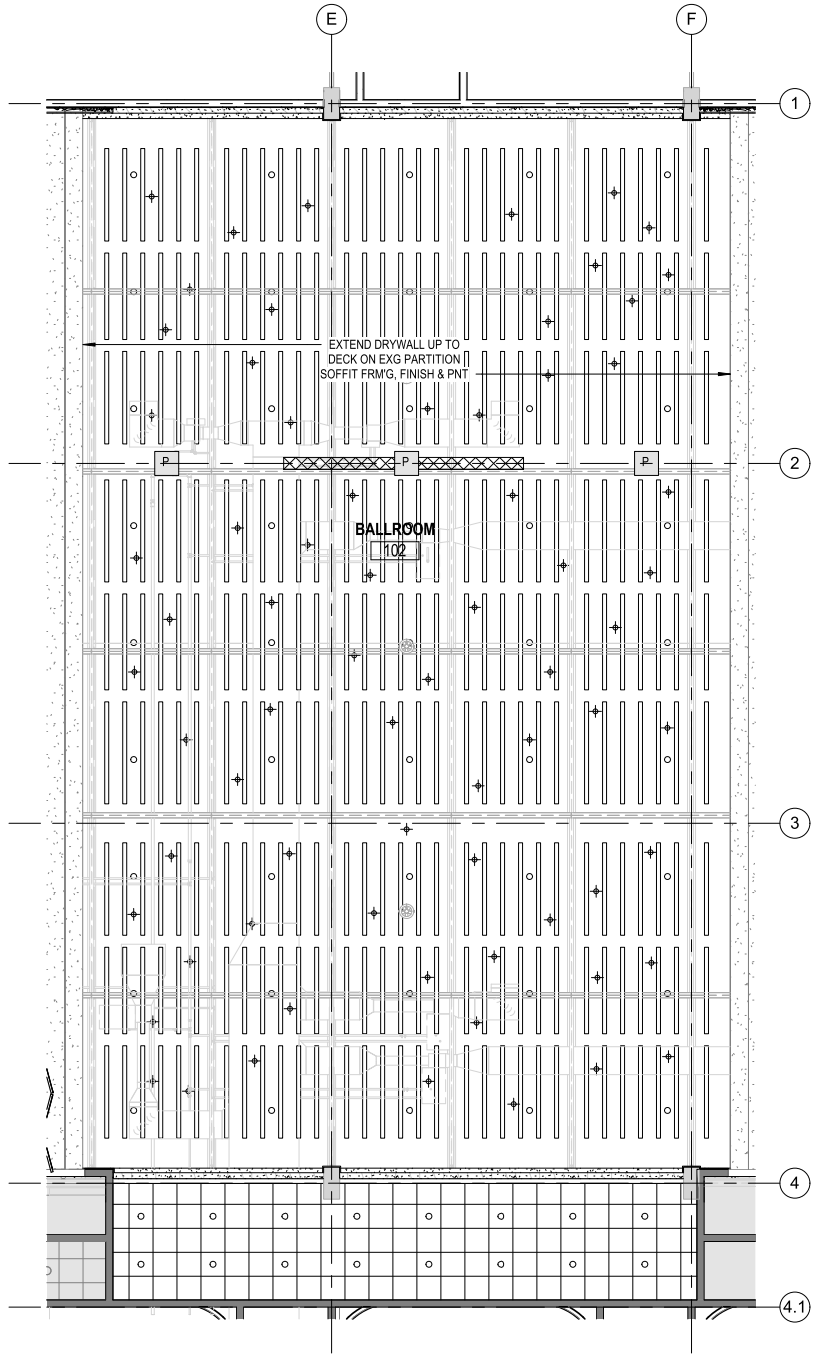
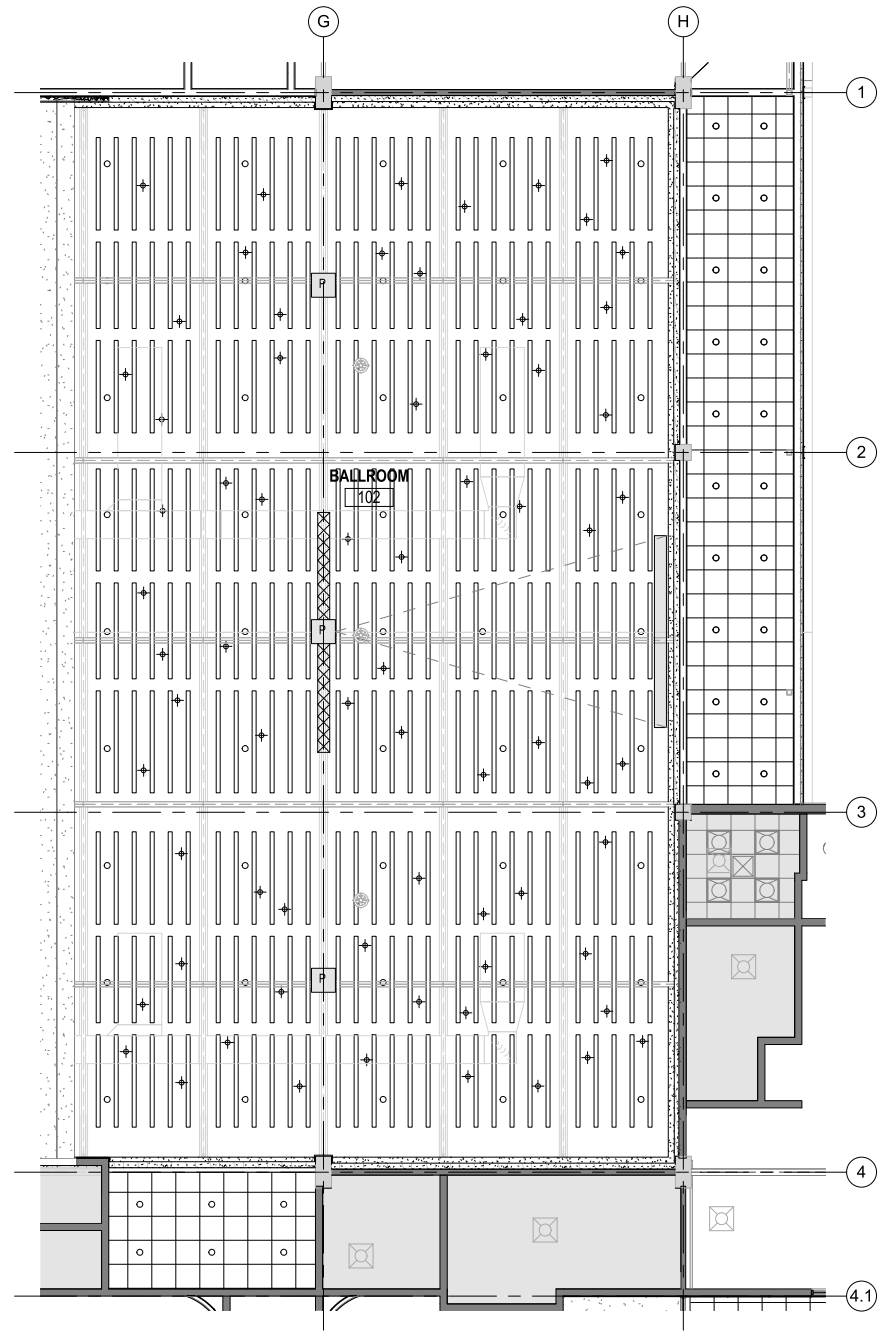


3 A124 ENLARGED RCP - BALLROOM 102 - COLORADO II



2 A124 ENLARGED RCP - BALLROOM 102 - COLORADO I



1 A124 ENLARGED RCP - BALLROOM 102 - GUNNISON

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P — CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S — CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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GRAND JUNCTION, COLORADO

ENLARGED REFLECTED CEILING PLAN

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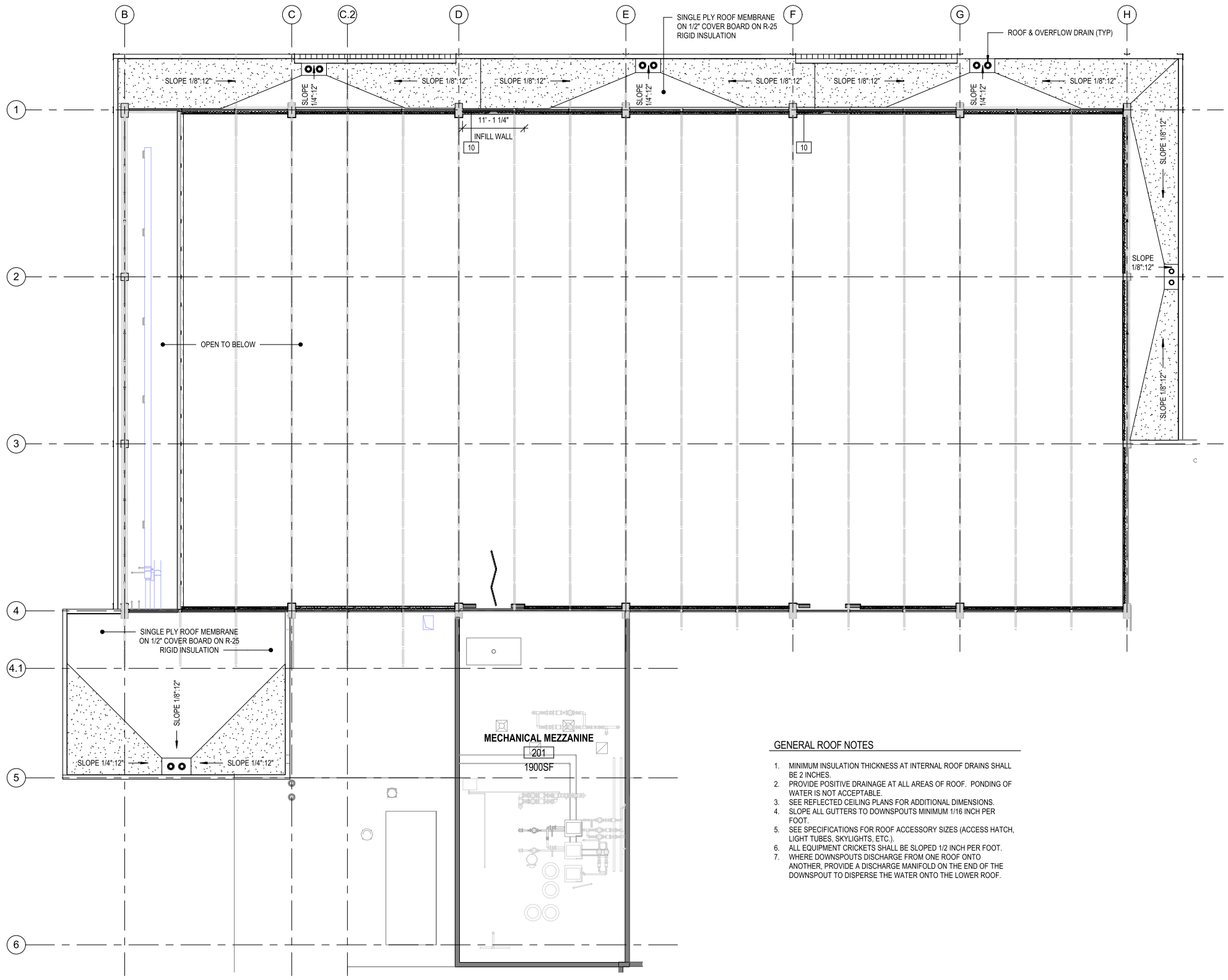

GENERAL ROOF NOTES

1. MINIMUM INSULATION THICKNESS AT INTERNAL ROOF DRAINS SHALL BE 2 INCHES.
2. PROVIDE POSITIVE DRAINAGE AT ALL AREAS OF ROOF. PONDING OF WATER IS NOT ACCEPTABLE.
3. SEE REFLECTED CEILING PLANS FOR ADDITIONAL DIMENSIONS.
4. SLOPE ALL GUTTERS TO DOWNSPOUTS MINIMUM 1/16 INCH PER FOOT.
5. SEE SPECIFICATIONS FOR ROOF ACCESSORY SIZES (ACCESS HATCH, LIGHT TUBES, SKYLIGHTS, ETC.).
6. ALL EQUIPMENT CRICKETS SHALL BE SLOPED 1/2 INCH PER FOOT.
7. WHERE DOWNSPOUTS DISCHARGE FROM ONE ROOF ONTO ANOTHER, PROVIDE A DISCHARGE MANIFOLD ON THE END OF THE DOWNSPOUT TO DISPERSE THE WATER ONTO THE LOWER ROOF.

1 A141 ROOF PLAN - LOW

0' 8' 16'

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ROOF PLAN

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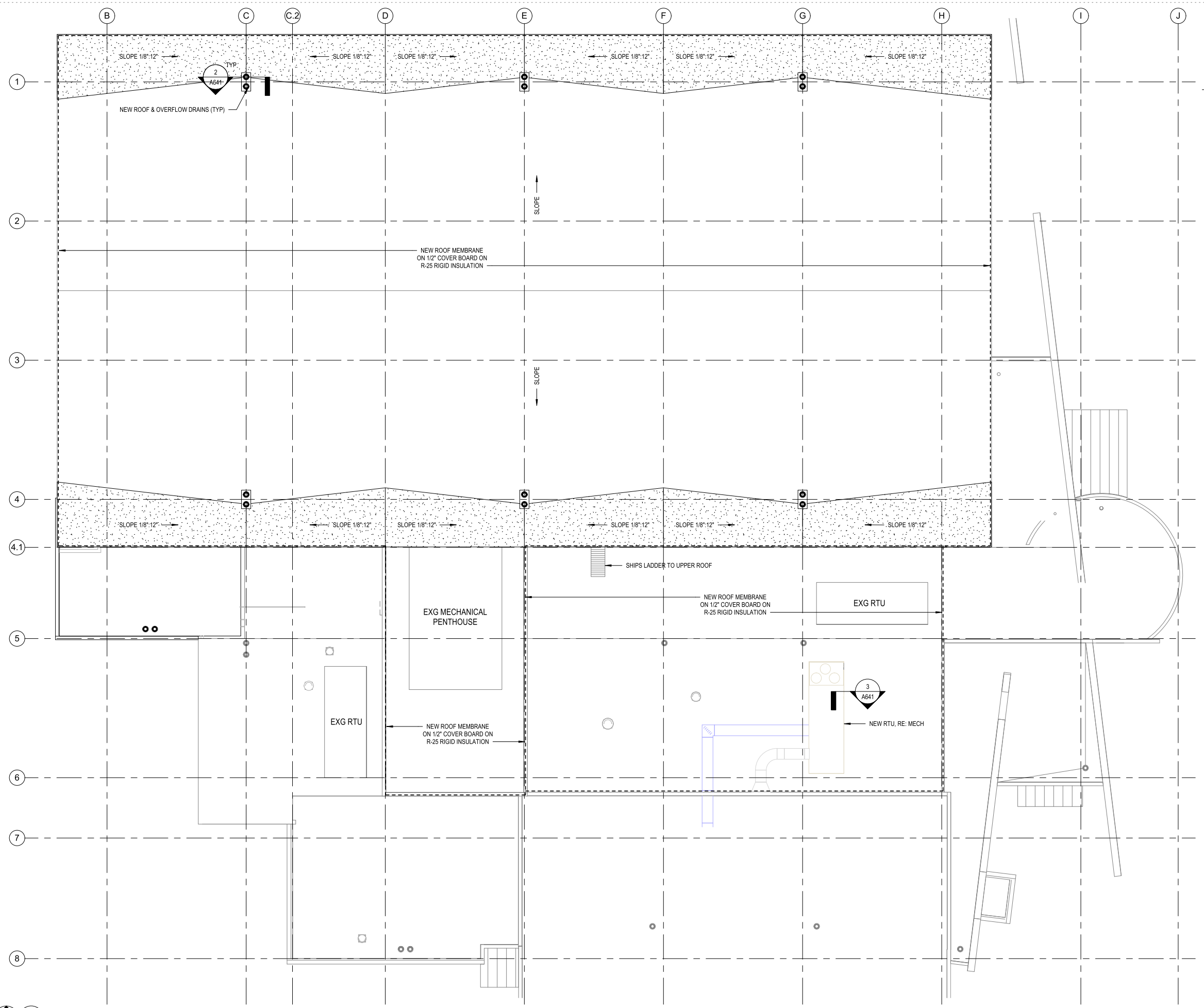

1 A142 ROOF PLAN - HIGH

0' 8' 16'

GENERAL ROOF NOTES

1. MINIMUM INSULATION THICKNESS AT INTERNAL ROOF DRAINS SHALL BE 2 INCHES.
2. PROVIDE POSITIVE DRAINAGE AT ALL AREAS OF ROOF. PONDING OF WATER IS NOT ACCEPTABLE.
3. SEE REFLECTED CEILING PLANS FOR ADDITIONAL DIMENSIONS.
4. SLOPE ALL GUTTERS TO DOWNSPOUTS MINIMUM 1/16 INCH PER FOOT.
5. SEE SPECIFICATIONS FOR ROOF ACCESSORY SIZES (ACCESS HATCH, LIGHT TUBES, SKYLIGHTS, ETC.).
6. ALL EQUIPMENT CRICKETS SHALL BE SLOPED 1/2 INCH PER FOOT.
7. WHERE DOWNSPOUTS DISCHARGE FROM ONE ROOF ONTO ANOTHER, PROVIDE A DISCHARGE MANIFOLD ON THE END OF THE DOWNSPOUT TO DISPERSE THE WATER ONTO THE LOWER ROOF.

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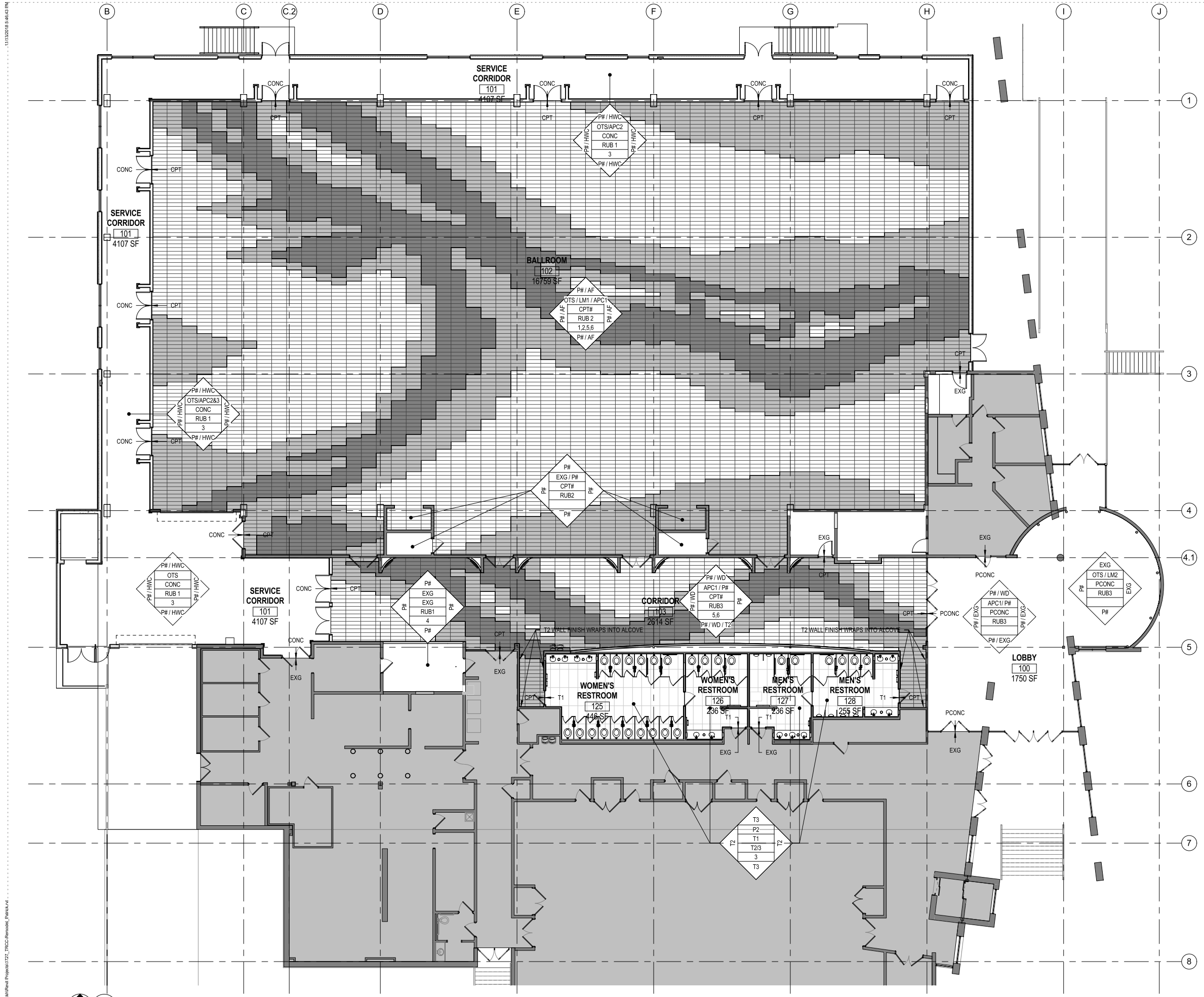

1 A161 MAIN LEVEL FINISH PLAN

0 8' 16'

P1 / SAT / CPT1 / WD / 1,2 / P1 / CT

- P1 — WALL FINISH (NORTH, SOUTH, EAST, WEST)
- SAT — CEILING FINISH
- CPT1 — FLOOR FINISH
- WD — BASE FINISH
- 1,2 — FINISH NOTES

NOTE:

COLORS, RE: INTERIOR COLOR SCHEDULE A741

PATTERN AT WALLS, RE: INTERIOR ELEVATIONS A401-A420

PATTERN AT CEILINGS, RE: REFLECTED CEILING PLAN A121

FLOOR FINISH TRANSITIONS, RE: A701

WALL FINISHES

P# - CMU OR GYPSUM WALLBOARD W/ PAINT

HWC - HIGH IMPACT WALL COVERING WITH CRASH RAIL AT TOP AND BOTTOM

AF# - ACOUSTICAL FABRIC DRAPE. RE: INTERIOR ELEVATIONS

PLAM - WALL MOUNTED PLASTIC LAMINATE PANEL

WD - WOOD WALL MOUNTED PANEL, 1/2" THICK PLYWOOD WITH WOOD VENEER AND 1X WD TRIM

T# - TILE

EXG - EXISTING WALL FINISH TO REMAIN

CEILING FINISH

APC# - SUSPENDED ACOUSTICAL PANEL CEILING GRID AND TILE

P# - GYPSUM WALLBOARD WITH PAINT

OTS - OPEN TO STRUCTURE, PAINT P#

LM# - LINEAR METAL CEILING W/ WOOD LOOK FINISH

EXG - EXISTING CEILING FINISH TO REMAIN

FLOOR FINISHES

CONC - SEALED CONCRETE

CPT# - CARPET FLOOR TILE

T# - TILE

PCONC - REFINISH EXISTING POLISHED CONCRETE FLOOR

BASE FINISHES

T# - TILE BASE

RUB# - RUBBER BASE

- CORNER GUARD

- ENDWALL GUARD

FINISH NOTES

1. RECOVER EXISTING OPERABLE PARTITIONS WITH NEW FABRIC.
2. ADD ALTERNATE 2: ADD WD WALL PANELS TO BALLROOM FROM 6" AFF TO 10' AFF.
3. USE EPOXY PAINT IN DAMP/WET AREAS & SERVICE CORRIDOR.
4. PATCH AND REPAIR EXISTING MATERIALS TO REMAIN AS NEEDED FOR A FINISHED ROOM.
5. ADD ALTERNATE 3: PROVIDE PLASTIC LAMINATE PANELS IN THE BALLROOM FROM 6" AFF TO 10' AFF. PROVIDE PLASTIC LAMINATE WALL PANELS IN CORRIDOR 103 INSTEAD OF WOOD PANELS.
6. CARPET KEY:
   - HN840
   - HN850
   - HN810

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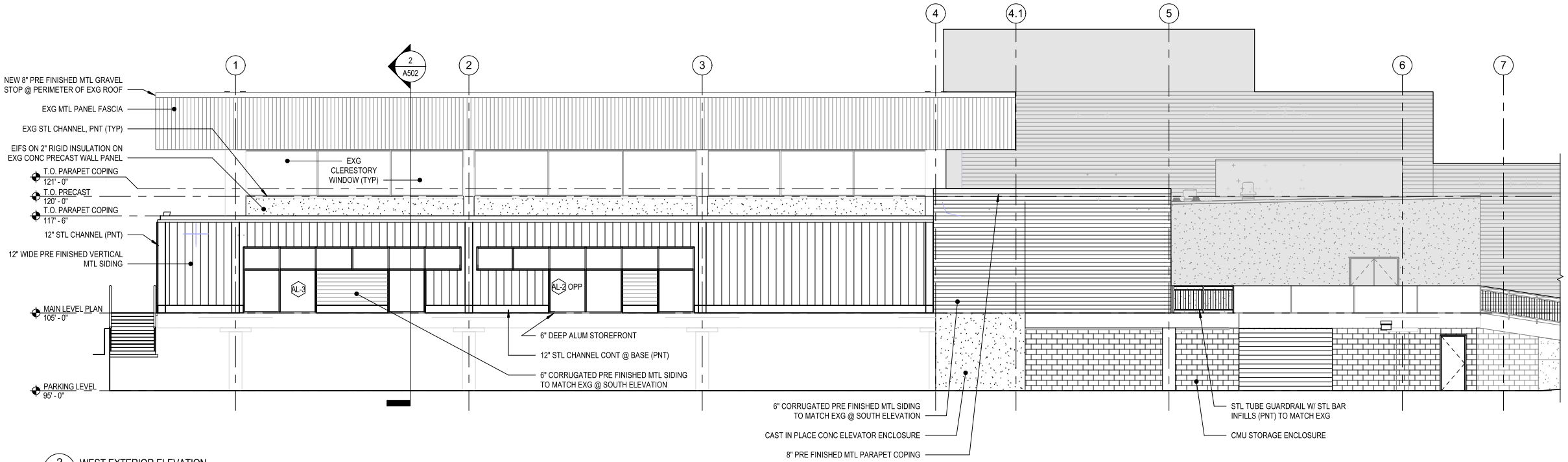
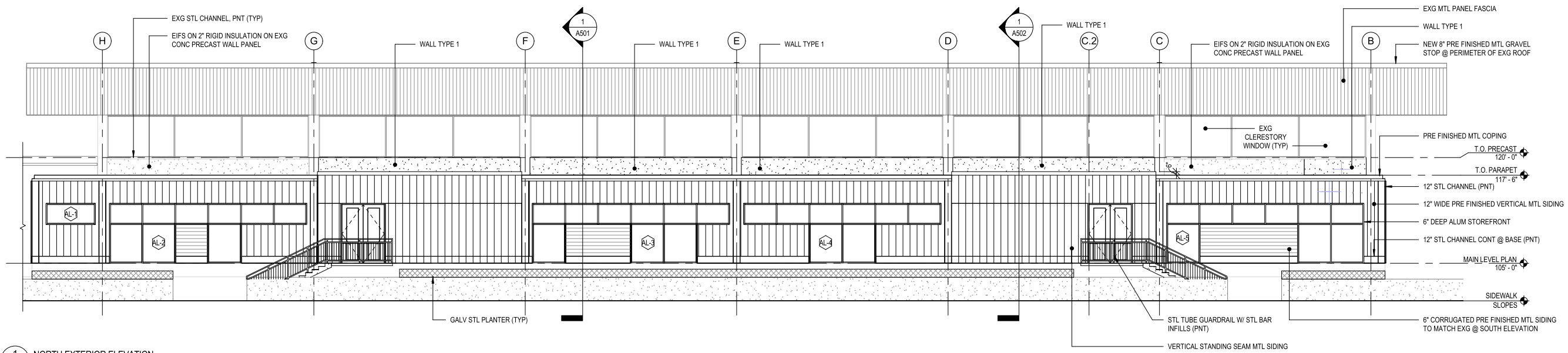


2 A201 WEST EXTERIOR ELEVATION

0' 4' 8'



1 A201 NORTH EXTERIOR ELEVATION

0' 4' 8'

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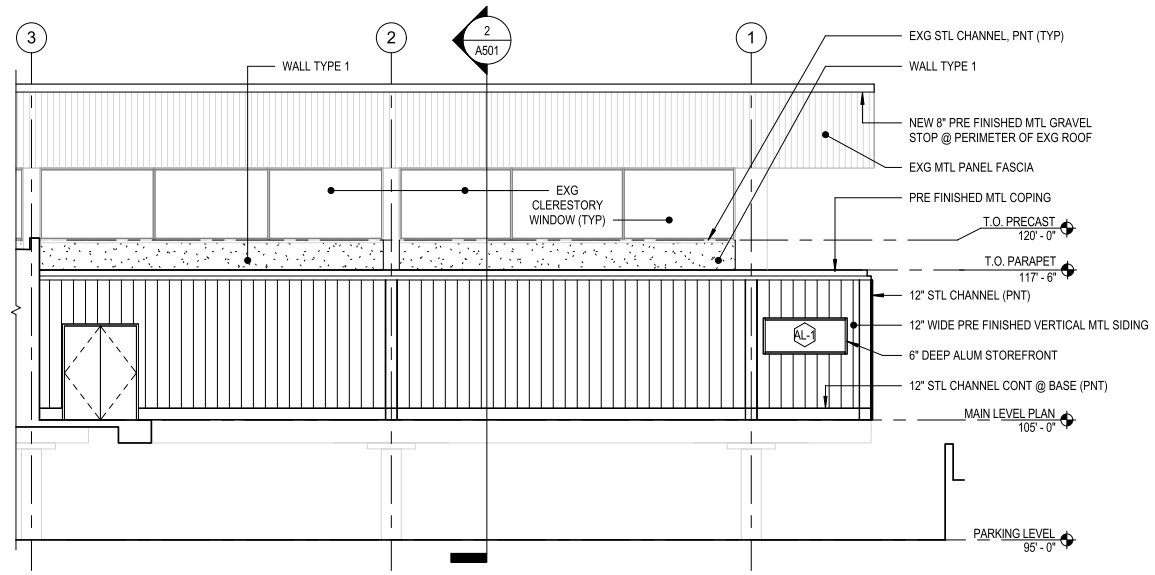
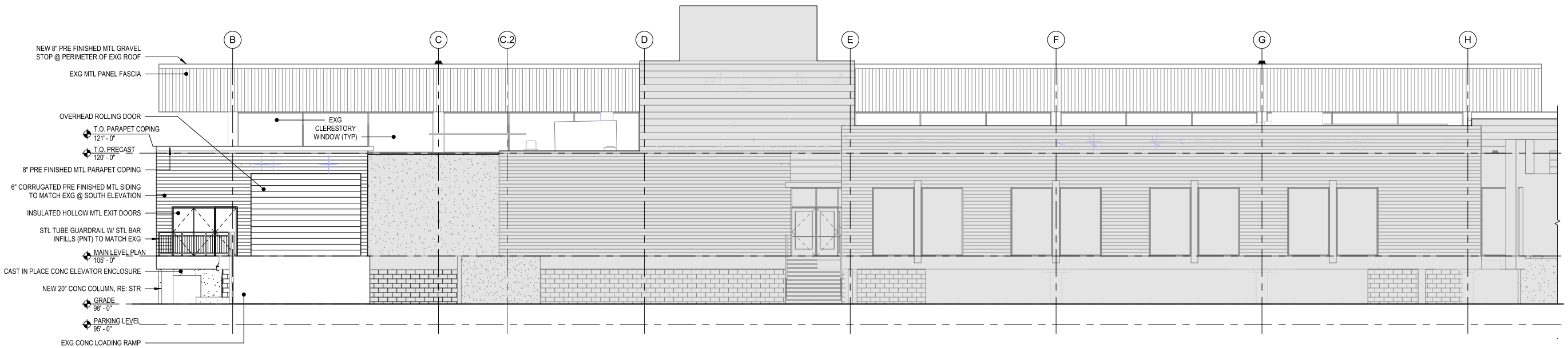


2 A202 EAST EXTERIOR ELEVATION

0' 4' 8'



1 A202 SOUTH EXTERIOR ELEVATION

0' 4' 8'

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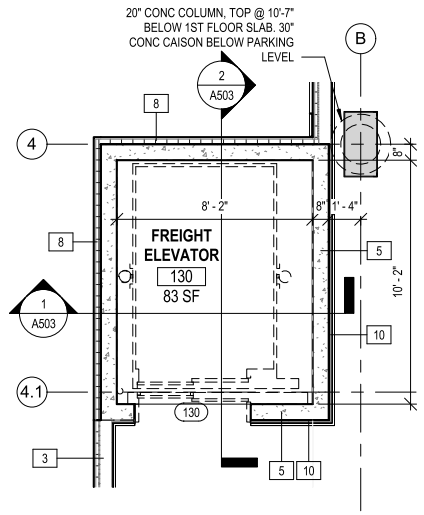
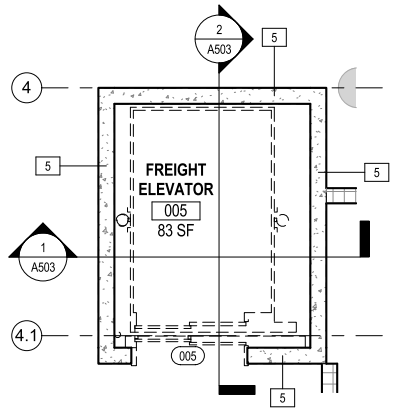
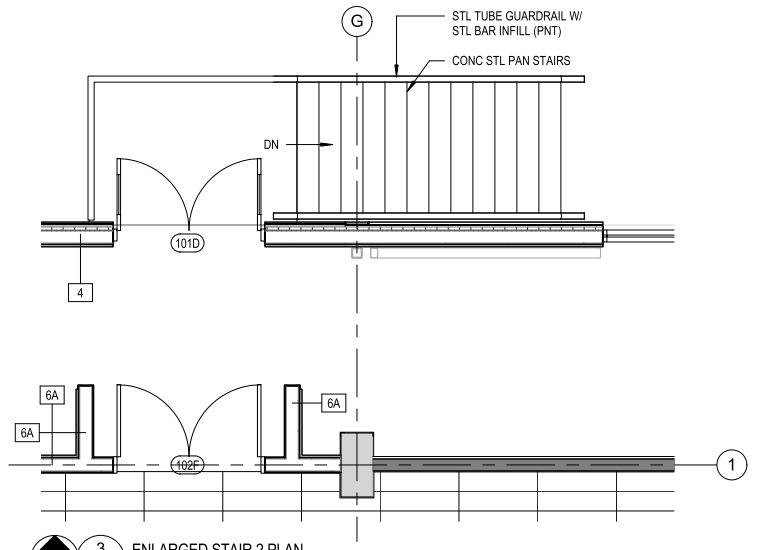


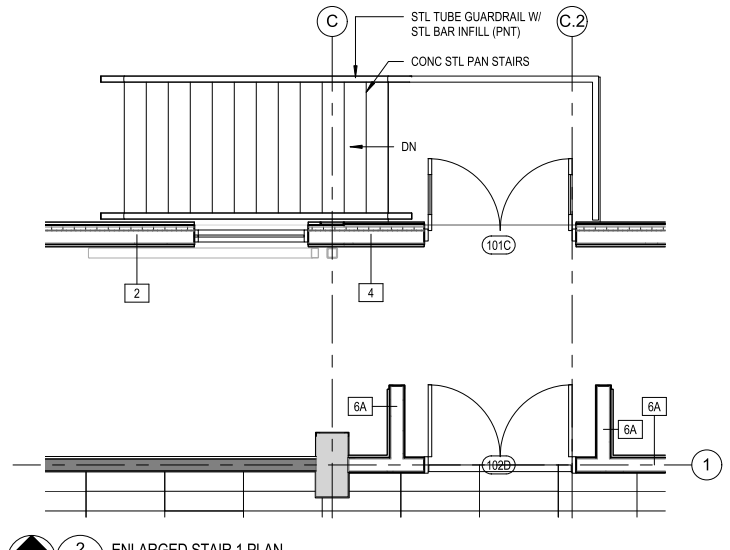
5 A301 ENLARGED FREIGHT ELEVATOR MAIN FLOOR PLAN



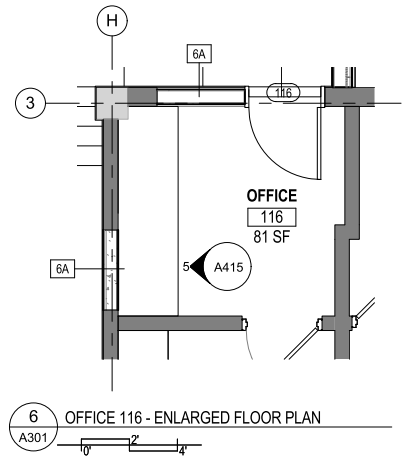
4 A301 ENLARGED FREIGHT ELEVATOR PARKING LEVEL



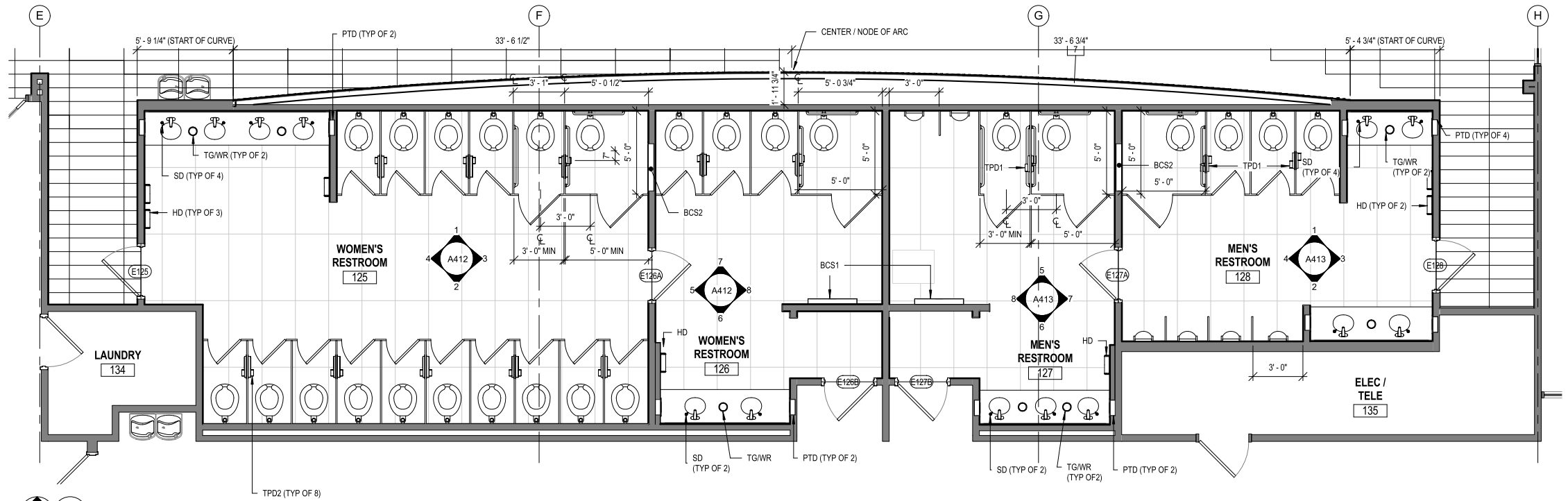
3 A301 ENLARGED STAIR 2 PLAN



2 A301 ENLARGED STAIR 1 PLAN



6 A301 OFFICE 116 - ENLARGED FLOOR PLAN



1 A301 ENLARGED RESTROOM PLAN

NOTE: EXISTING PLUMBING FIXTURES ARE BEING REPLACED WITH NEW PLUMBING FIXTURES IN THE SAME LOCATION. VERIFY IN FIELD EXISTING FIXTURES LOCATIONS FOR NEW PARTITION LAYOUT.

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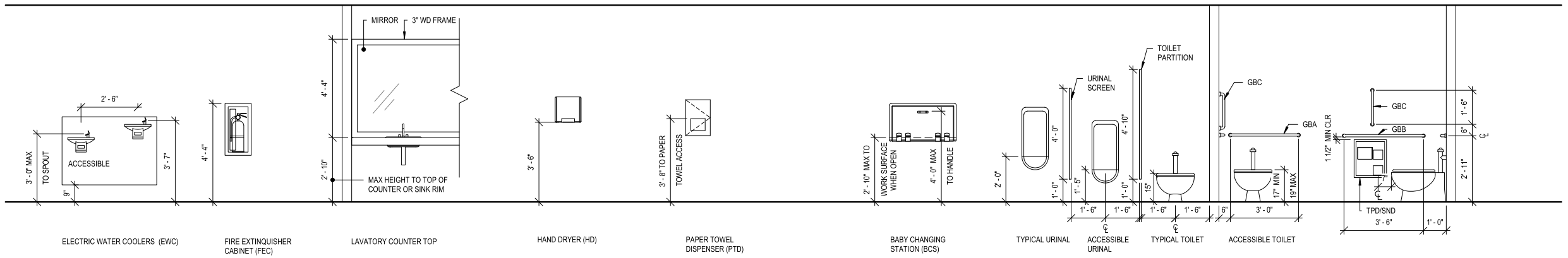
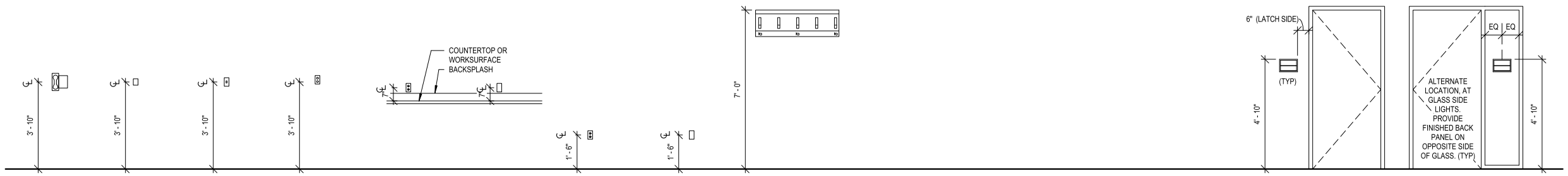


ELECTRIC WATER COOLERS (EWC) | FIRE EXTINQUISHER CABINET (FEC) | LAVATORY COUNTER TOP | HAND DRYER (HD) | PAPER TOWEL DISPENSER (PTD) | BABY CHANGING STATION (BCS) | TYPICAL URINAL | ACCESSIBLE URINAL | TYPICAL TOILET | ACCESSIBLE TOILET



WALL MOUNTED TELEPHONE (T) | THERMOSTAT (TSTAT) | LIGHT SWICH | ELEVATOR CALL BUTTON | DUPLEX OUTLET AC | VOICE/ DATA OUTLET AC | DUPLEX OUTLET | VOICE/ DATA OUTLET | MOP SHELF | SIGNAGE

1 / A401 TYPICAL ELEVATION HEIGHTS

0" 2" 4"

NOTE: PROVIDE TREATED WOOD BLOCKING AT ALL WALL MOUNTED ACCESSORIES

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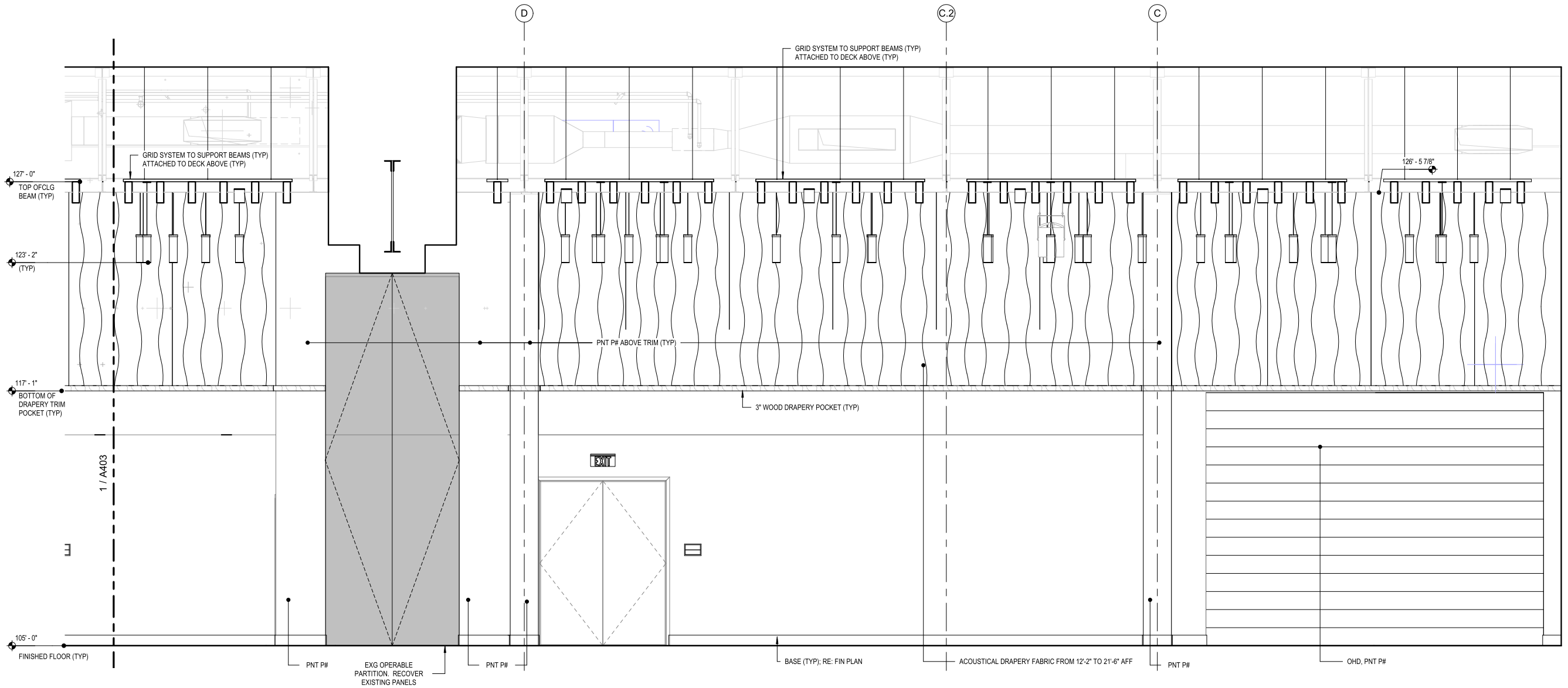

1 / A402 BALLROOM 102 - SOUTH IE - WEST

0' 2' 4'

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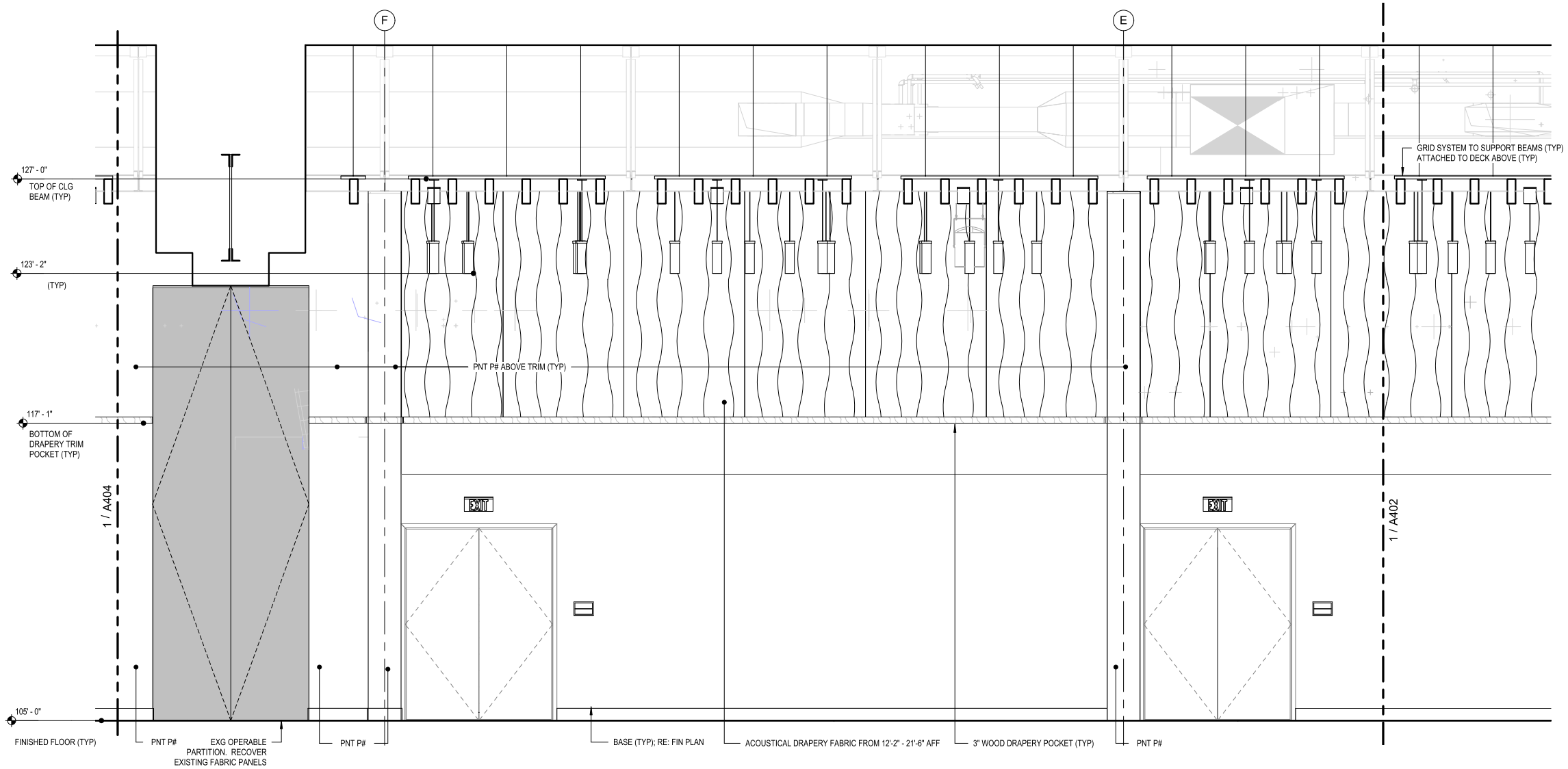

1 / A403 BALLROOM 102 - SOUTH IE - CENTER

0' 2' 4'

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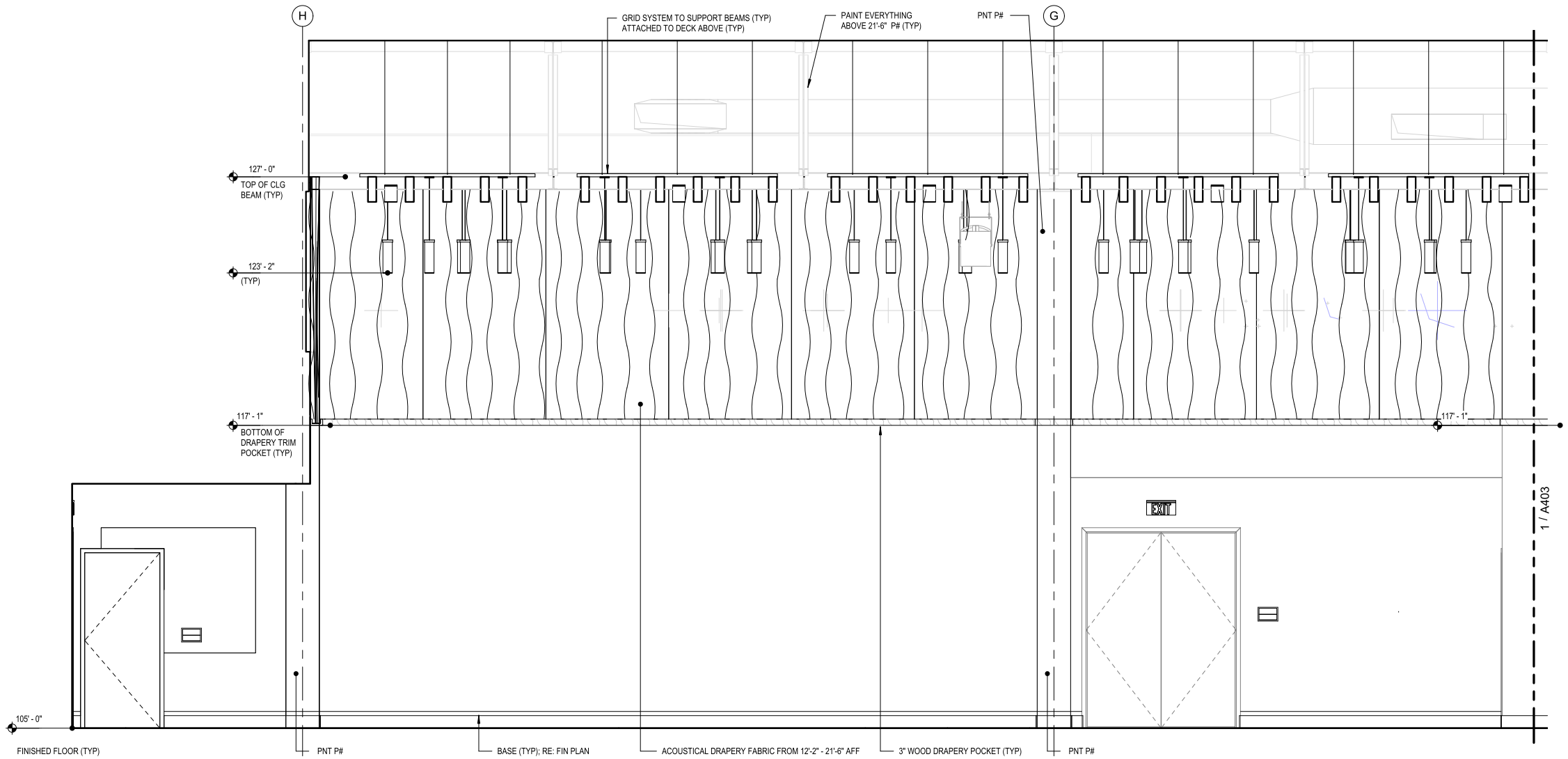

1 A404 BALLROOM 102 - SOUTH IE - EAST

0' 2' 4'

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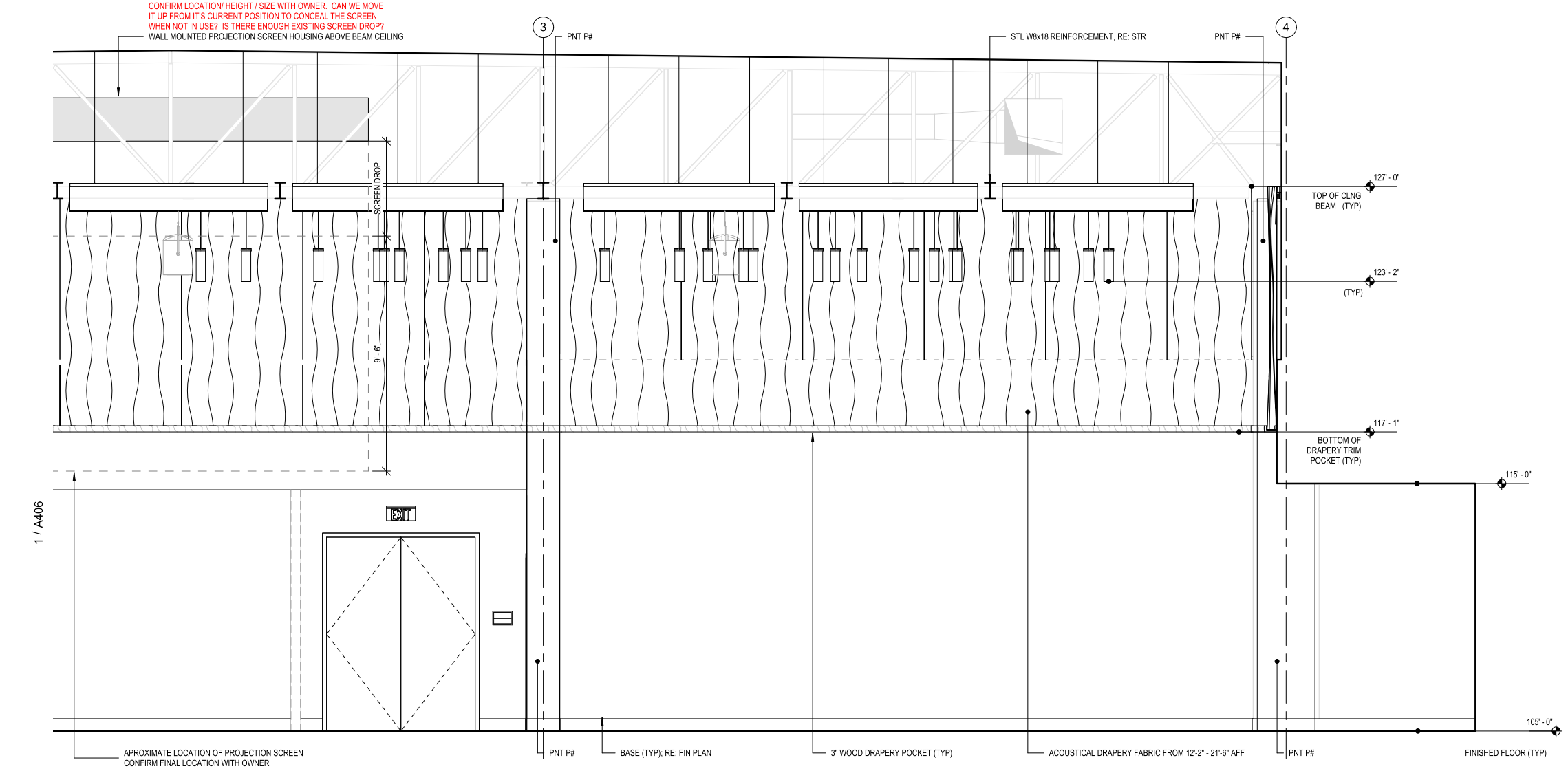

1 A405 BALLROOM 102 - EAST IE - SOUTH

0' 2' 4'

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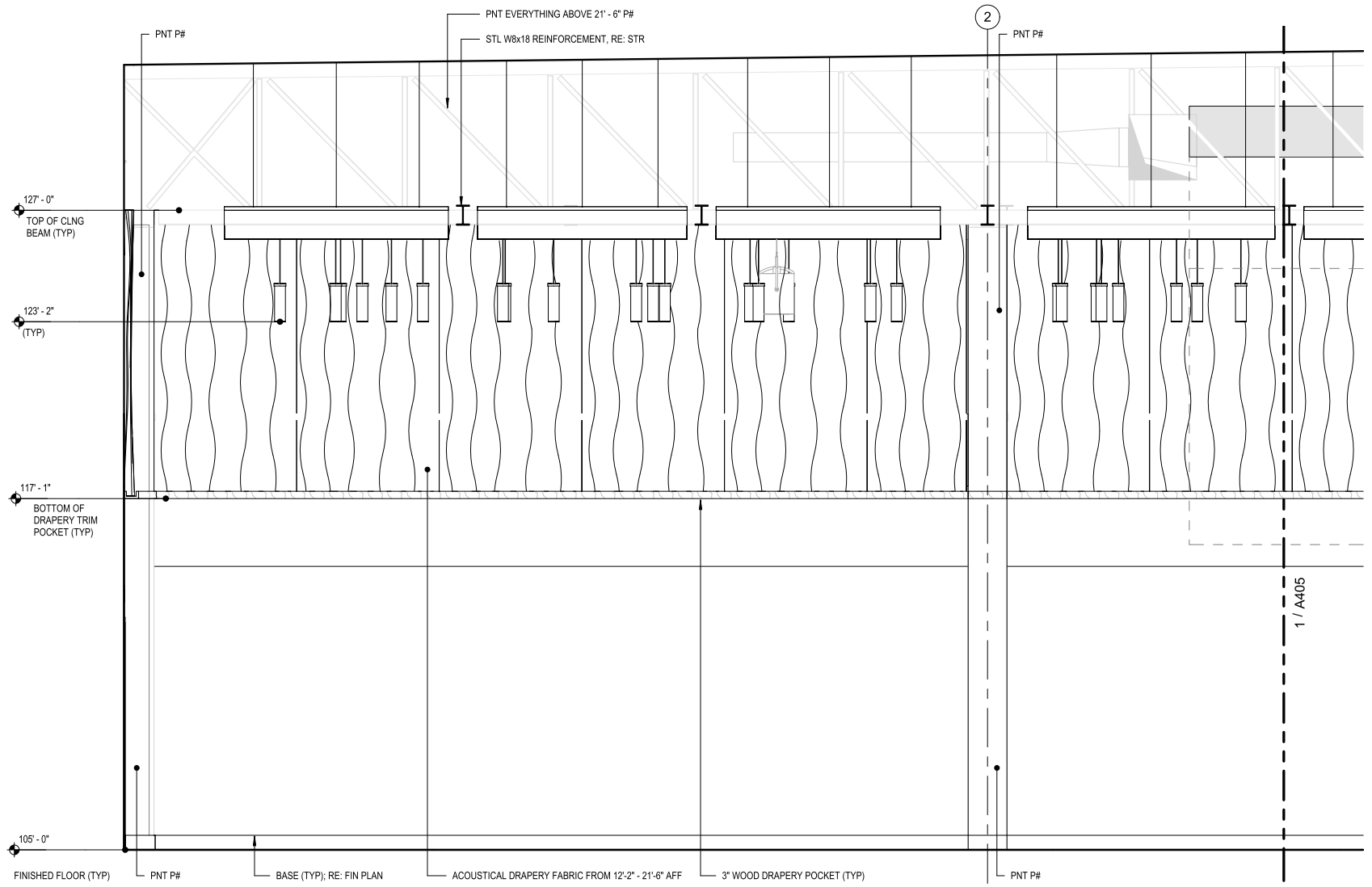

1 / A406 BALLROOM 102 - EAST IE - NORTH

0' 2' 4'

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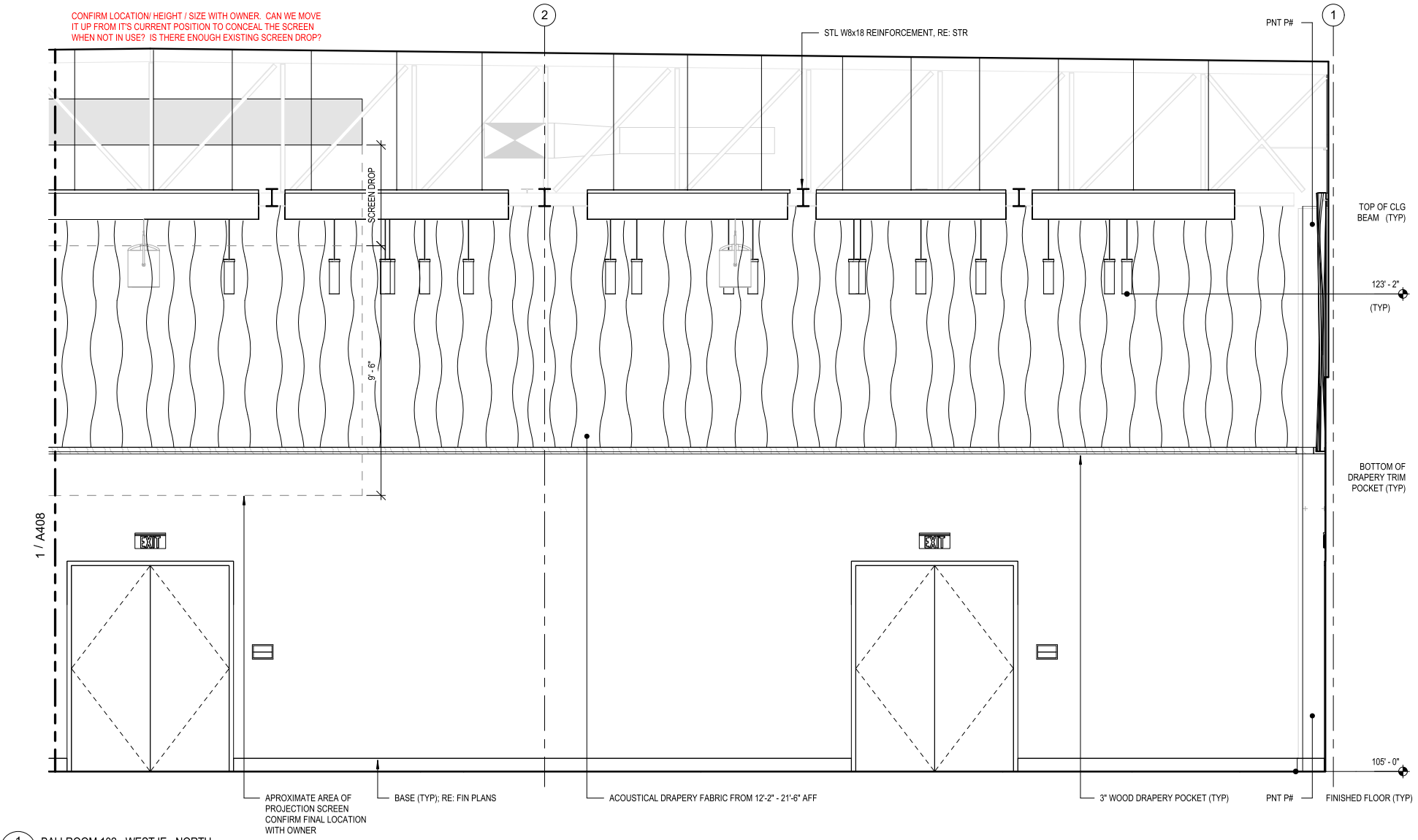

1 A407 BALLROOM 102 - WEST IE - NORTH

0' 2' 4'

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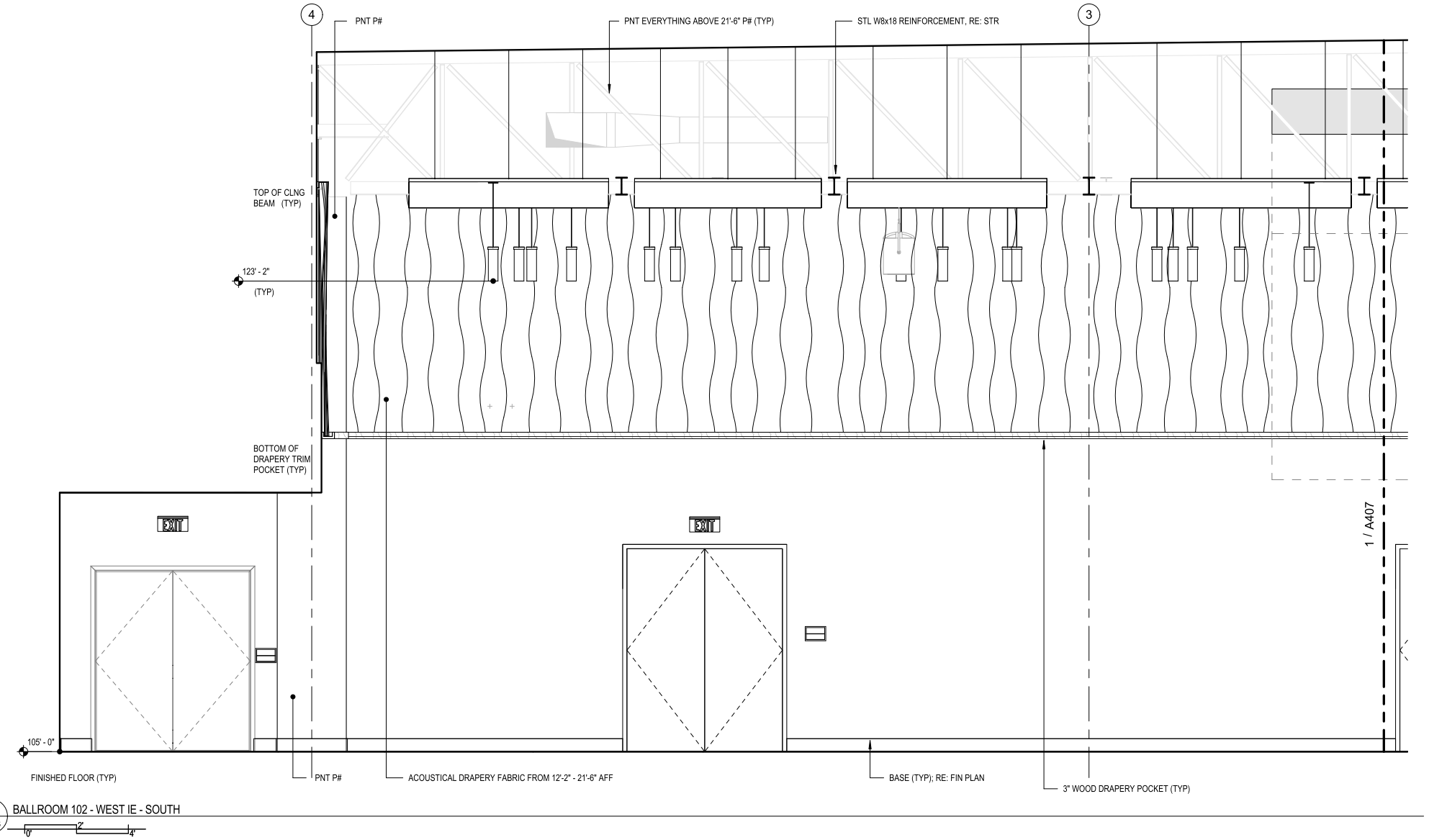

1 / A408 BALLROOM 102 - WEST IE - SOUTH

0' 2' 4'

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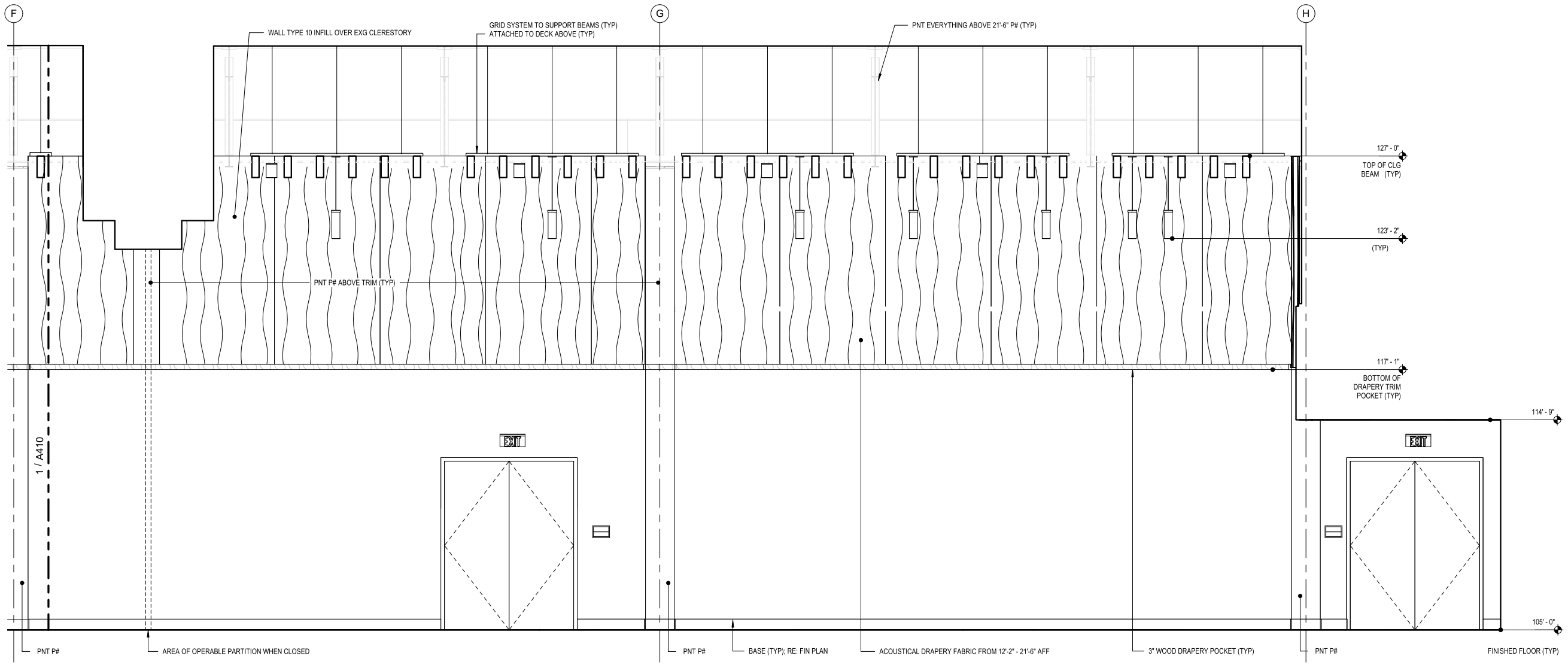

1 / A409 BALLROOM 102 - NORTH IE - EAST

0' 2' 4'

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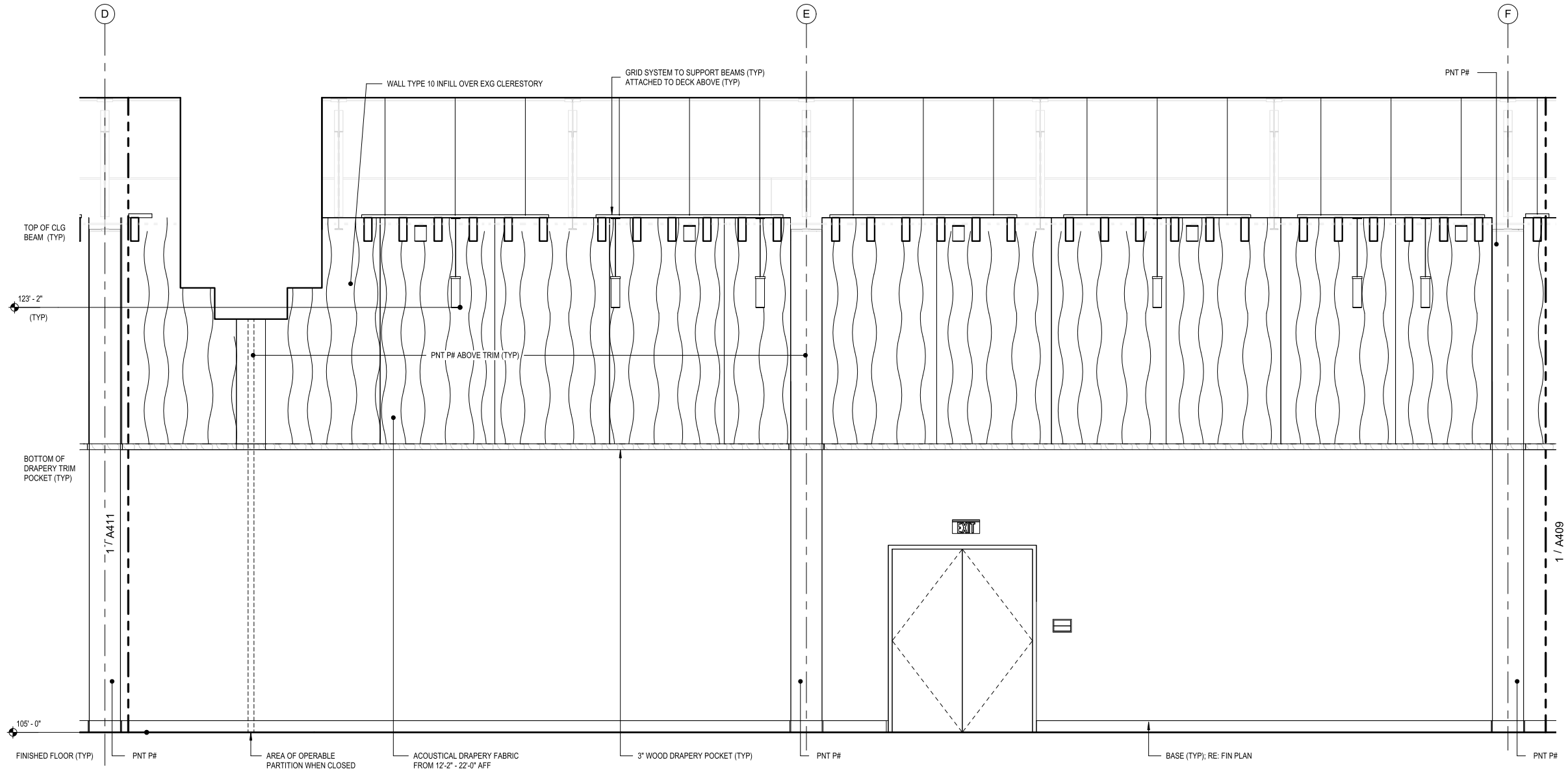

1 / A410 BALLROOM 102 - NORTH IE - CENTER

0' 2' 4'

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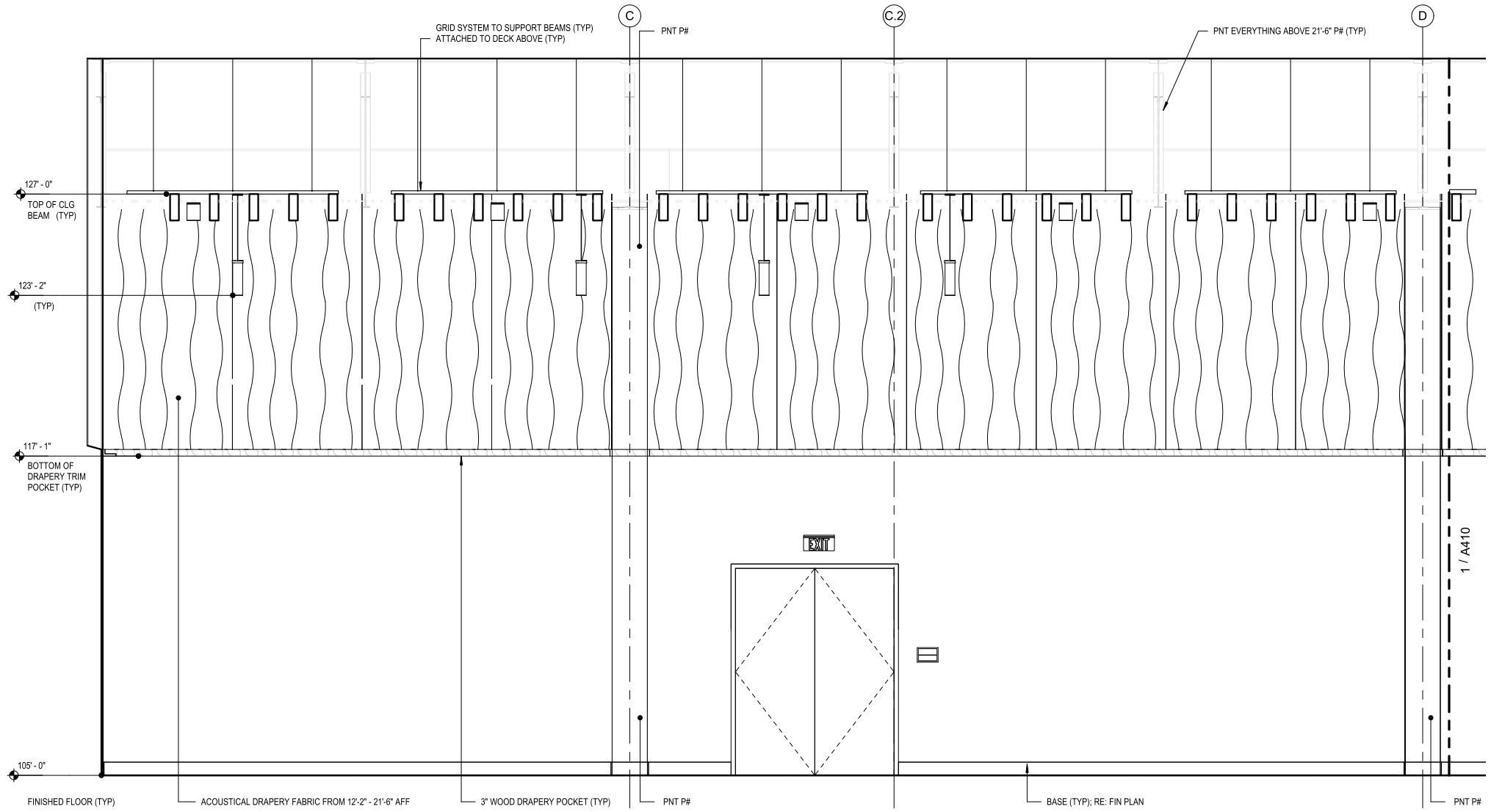

1 / A411 BALLROOM 102 - NORTH IE - WEST

0' 2' 4'

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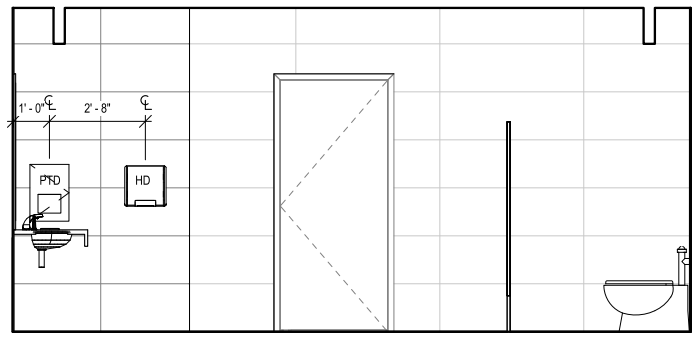
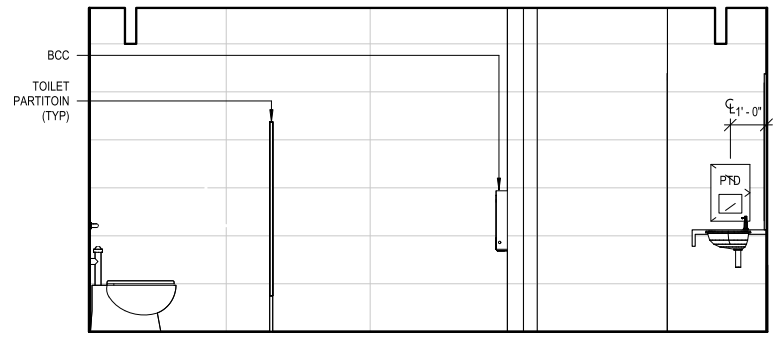
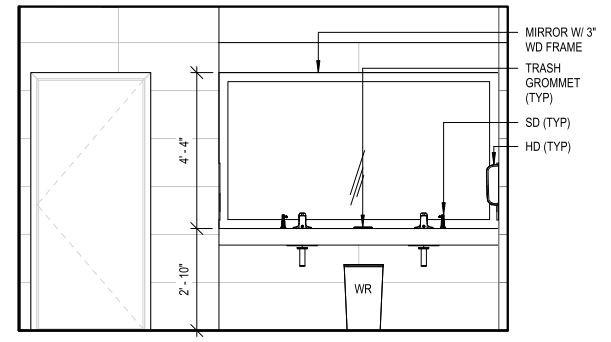


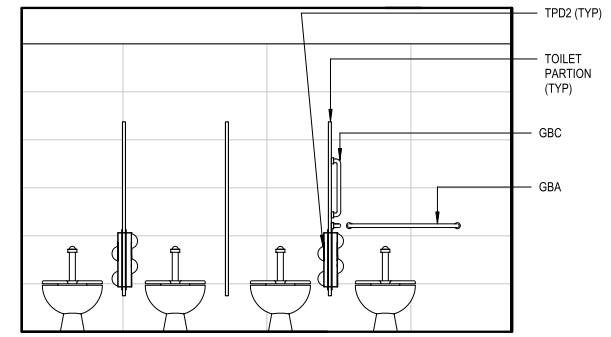
5 A412 WOMEN'S RESTROOM 126 - WEST IE



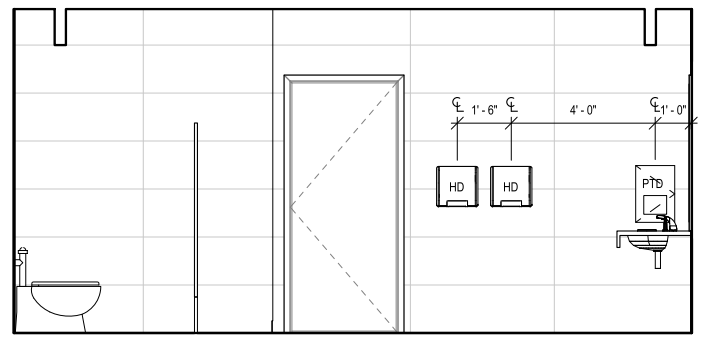
8 A412 WOMEN'S RESTROOM 126 - EAST IE



6 A412 WOMEN'S RESTROOM 126 - SOUTH IE



7 A412 WOMEN'S RESTROOM 126 - NORTH IE



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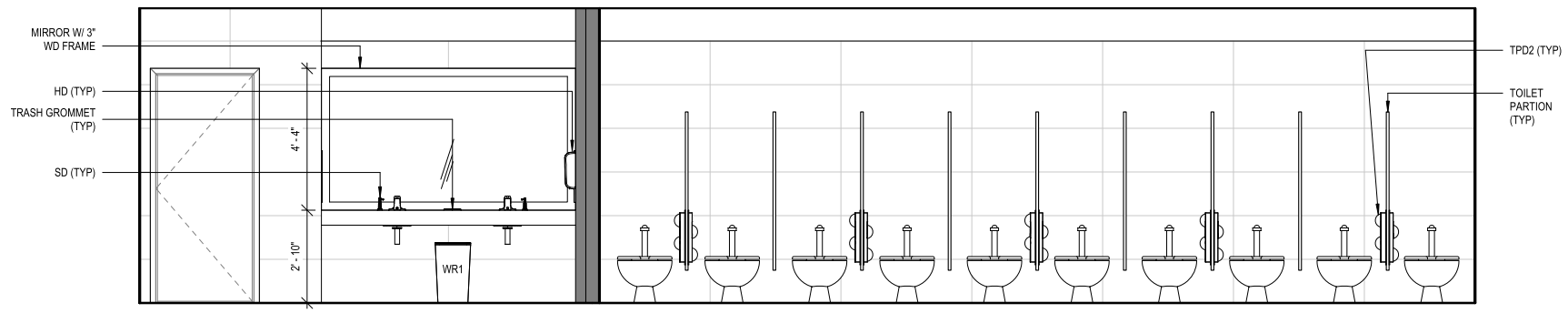
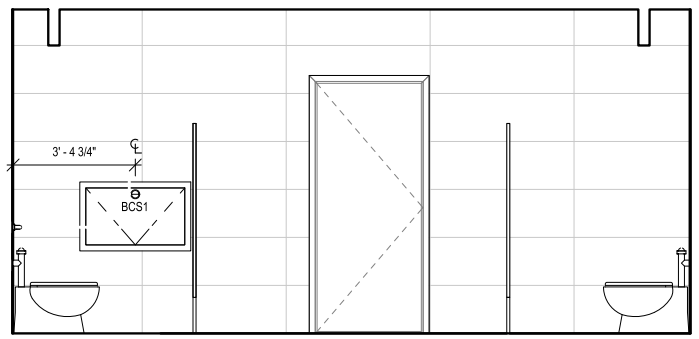
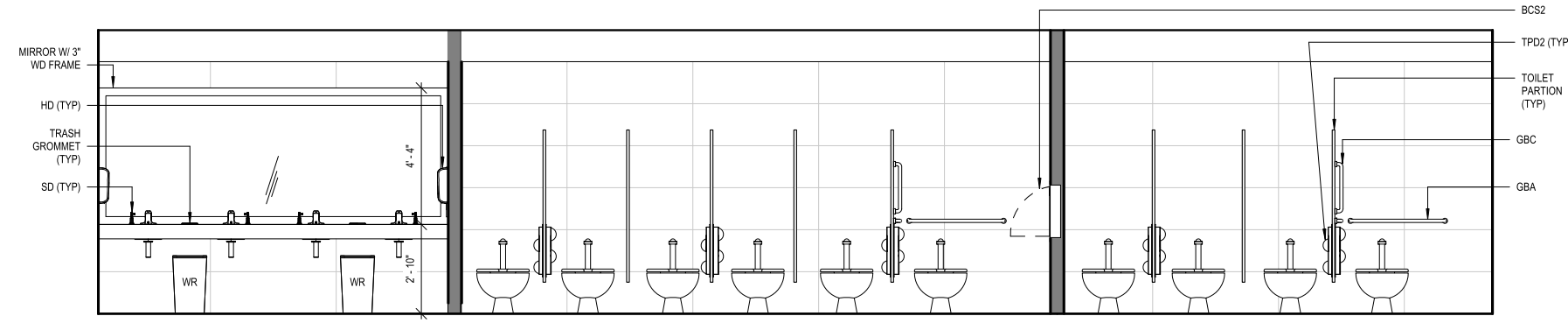


2 A412 WOMEN'S RESTROOM 125 - SOUTH IE



3 A412 WOMEN'S RESTROOM 125 - EAST IE



1 A412 WOMEN'S RESTROOM 125 - NORTH IE

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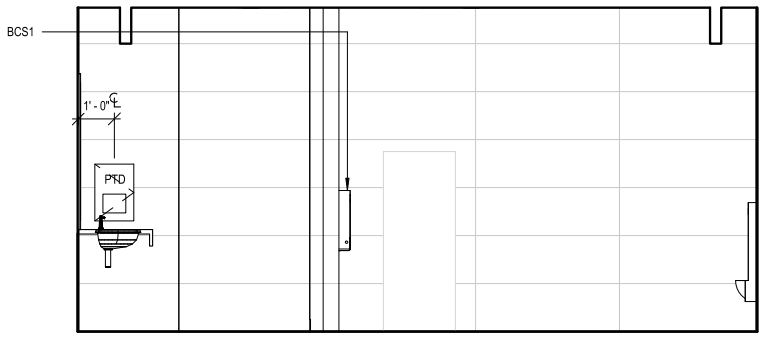
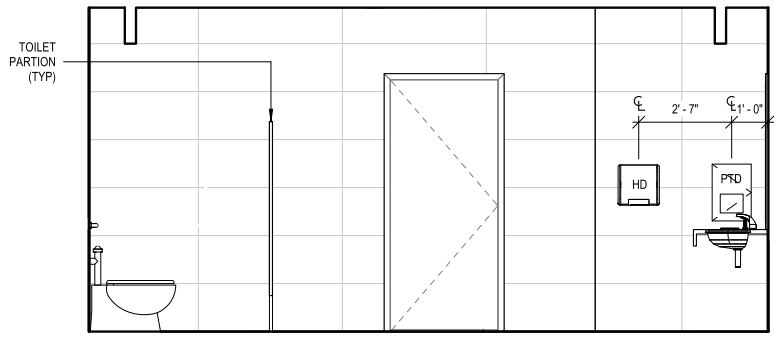


8 A413 MEN'S RESTROOM 127 - WEST IE



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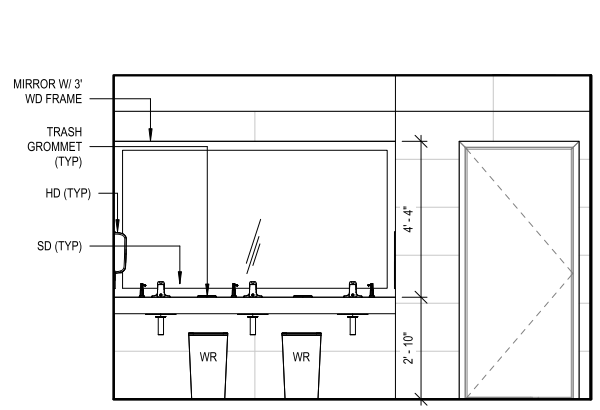

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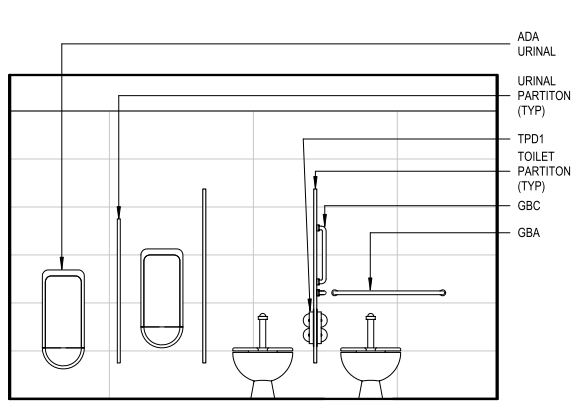

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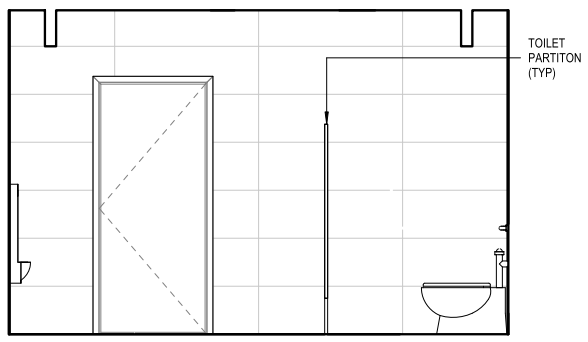
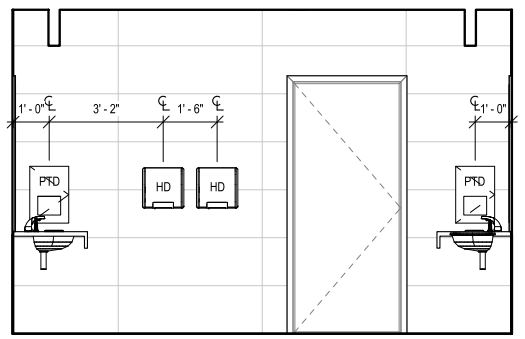


4 A413 MEN'S RESTROOM 128 - WEST IE



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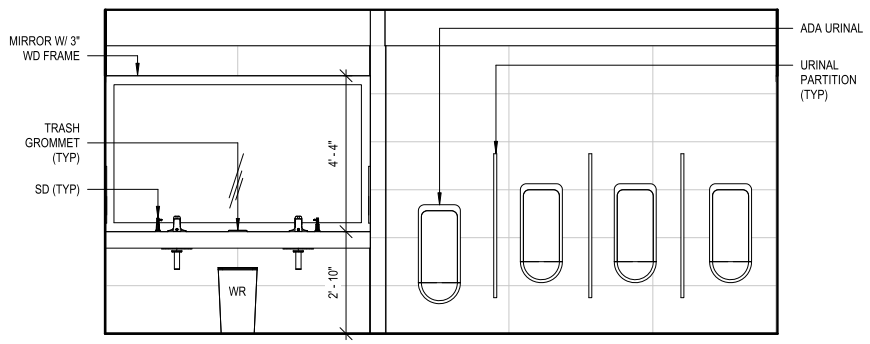

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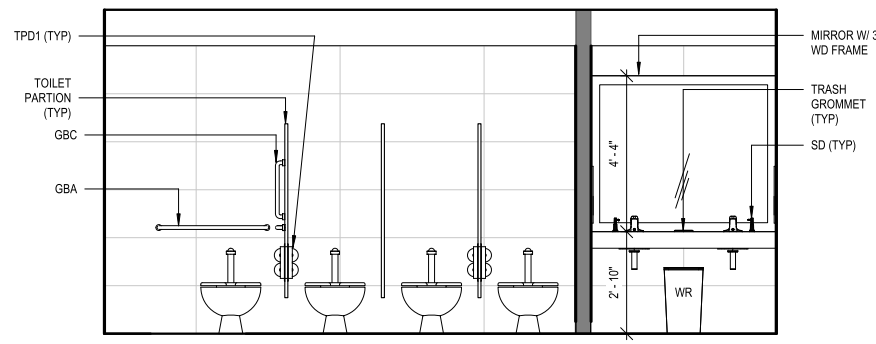

1 A413 MEN'S RESTROOM 128 - NORTH IE

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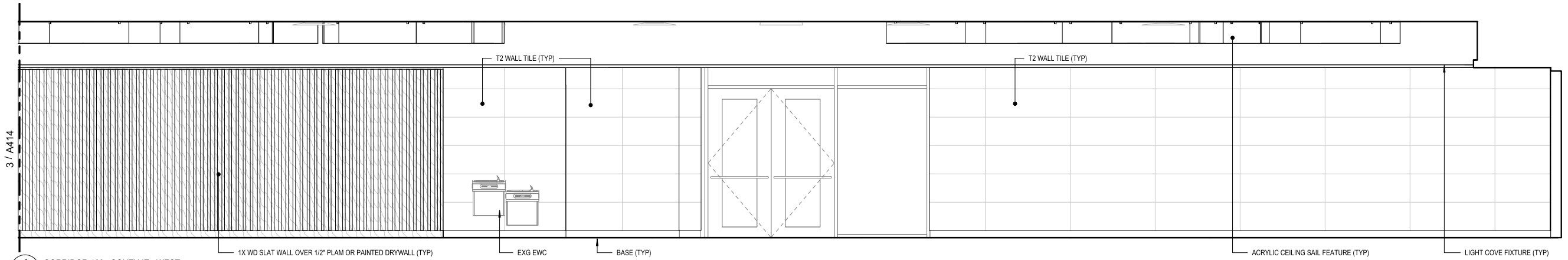
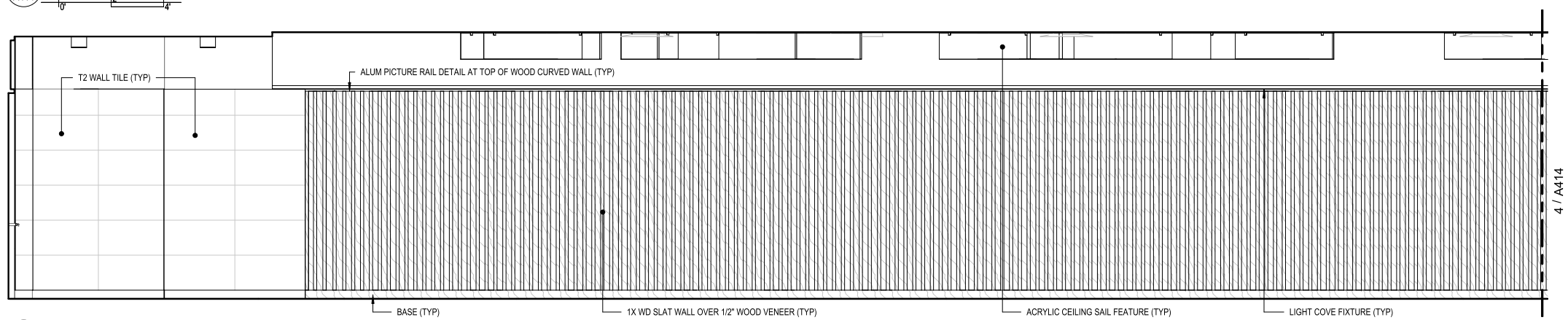


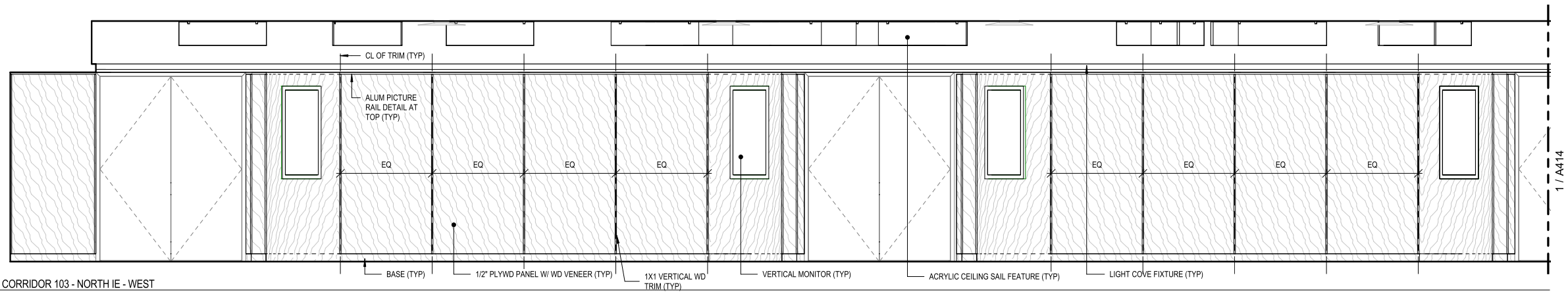
4 A414 CORRIDOR 103 - SOUTH IE - WEST

0' 2' 4'



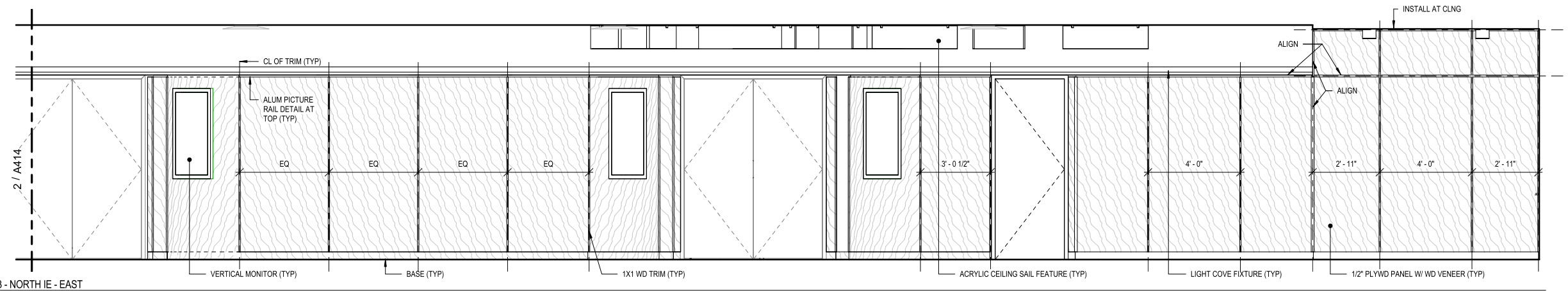
3 A414 CORRIDOR 103 - SOUTH IE - EAST

0' 2' 4'



2 A414 CORRIDOR 103 - NORTH IE - WEST

0' 2' 4'



1 A414 CORRIDOR 103 - NORTH IE - EAST

0' 2' 4'

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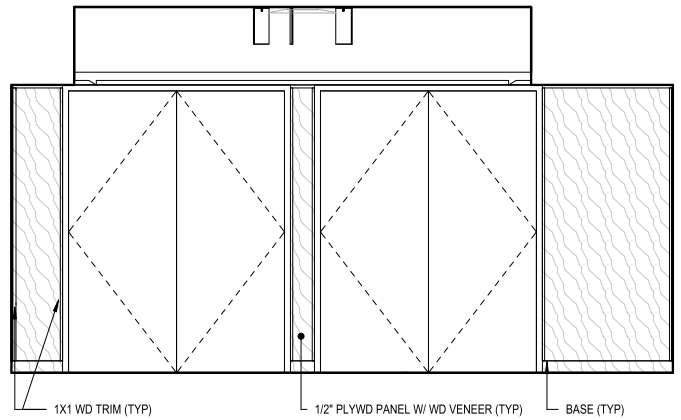
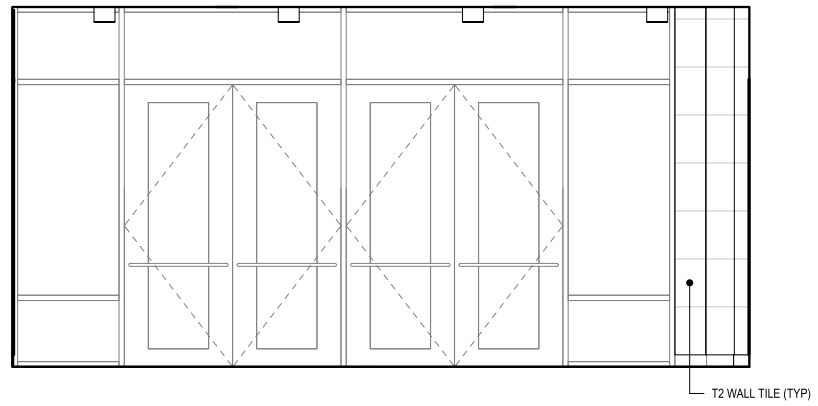
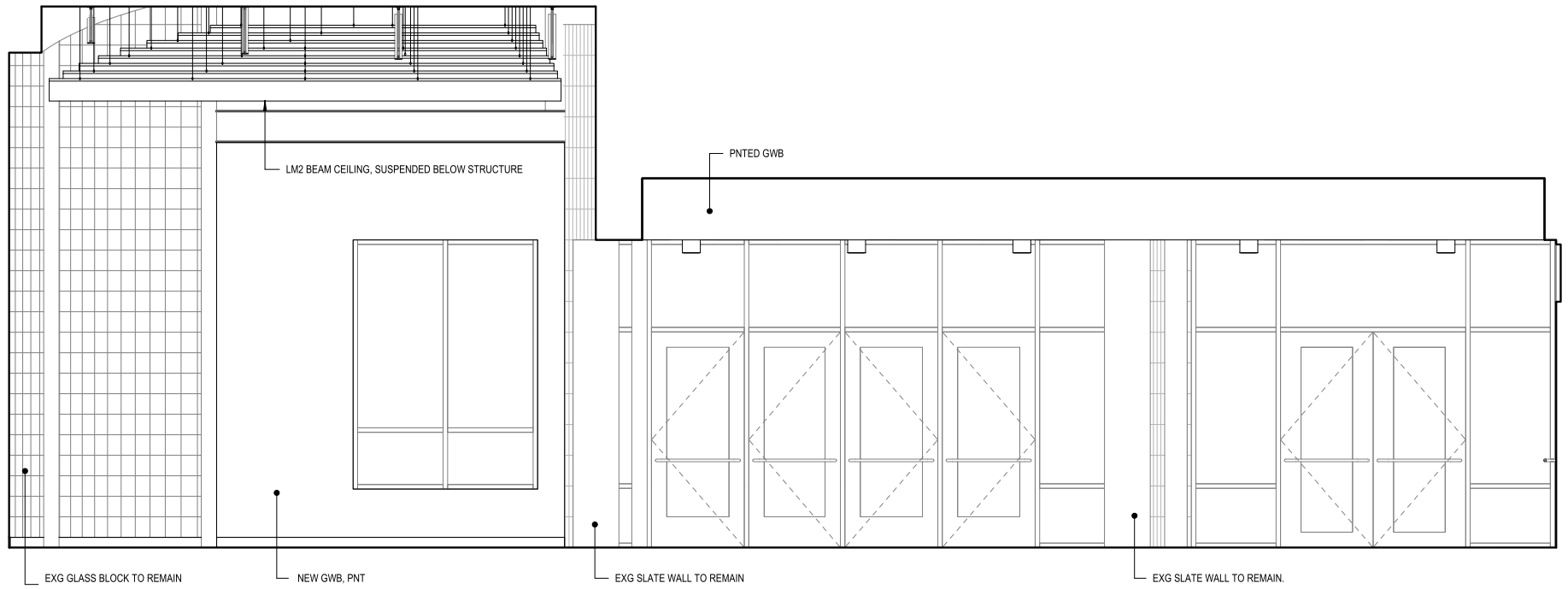


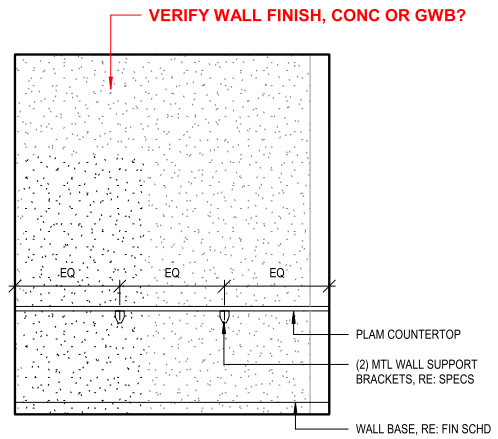


4 A415 CORRIDOR 103 - WEST IE

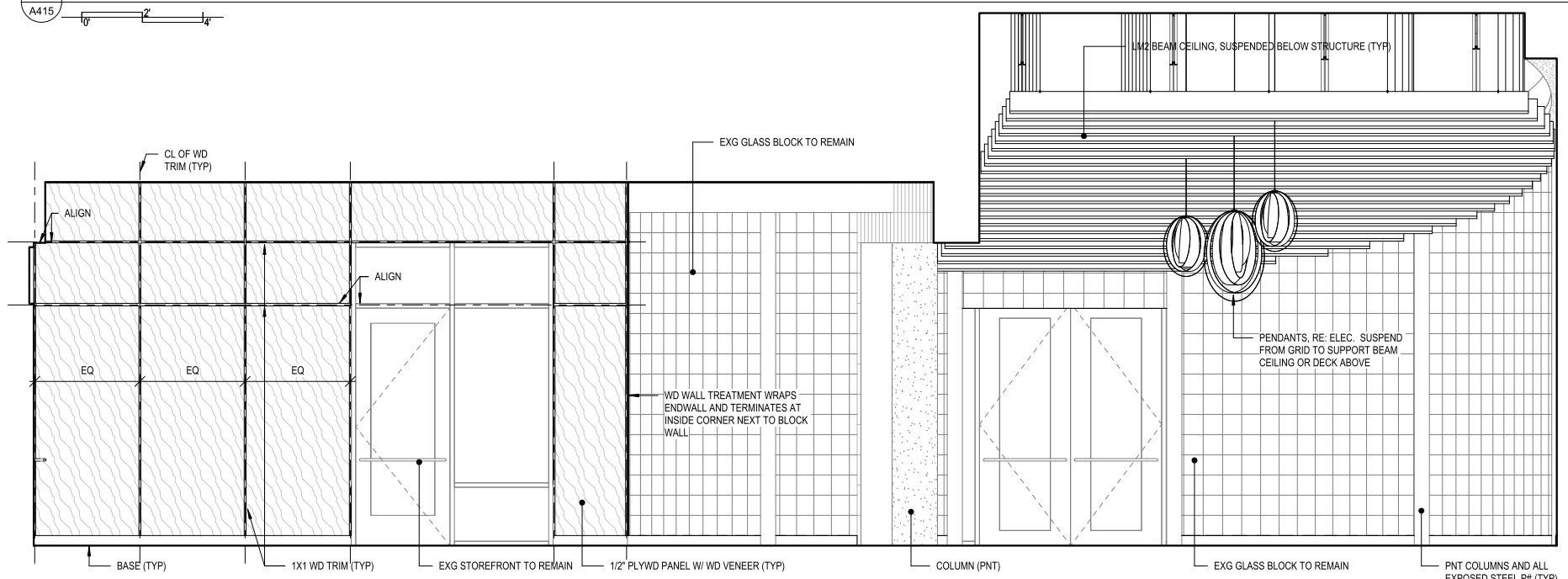
3 A415 CORRIDOR 103 - EAST IE



2 A415 LOBBY 100 - SOUTH IE



5 A415 OFFICE 116 - WEST IE



1 A415 LOBBY 100 - NORTH IE

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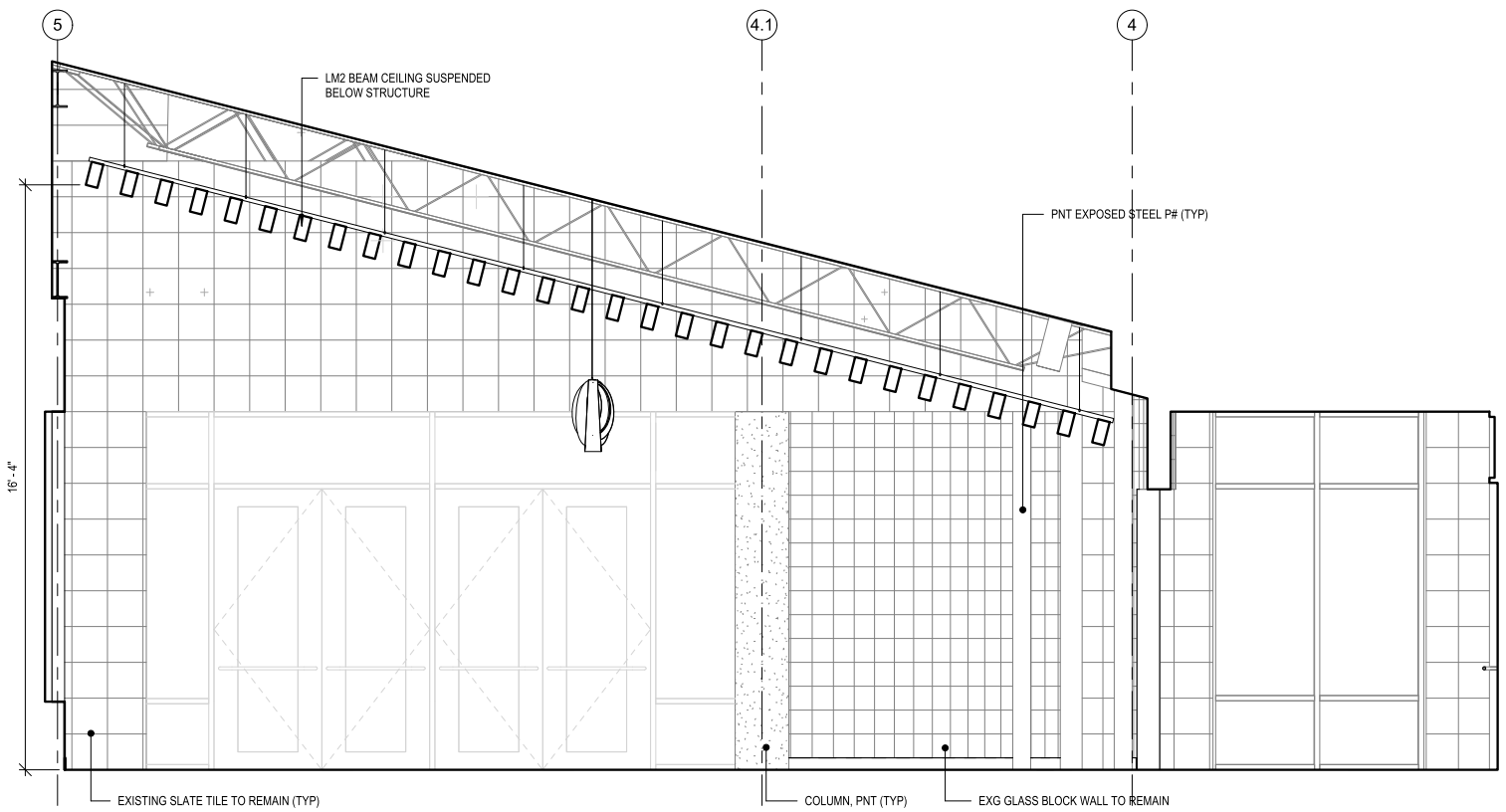

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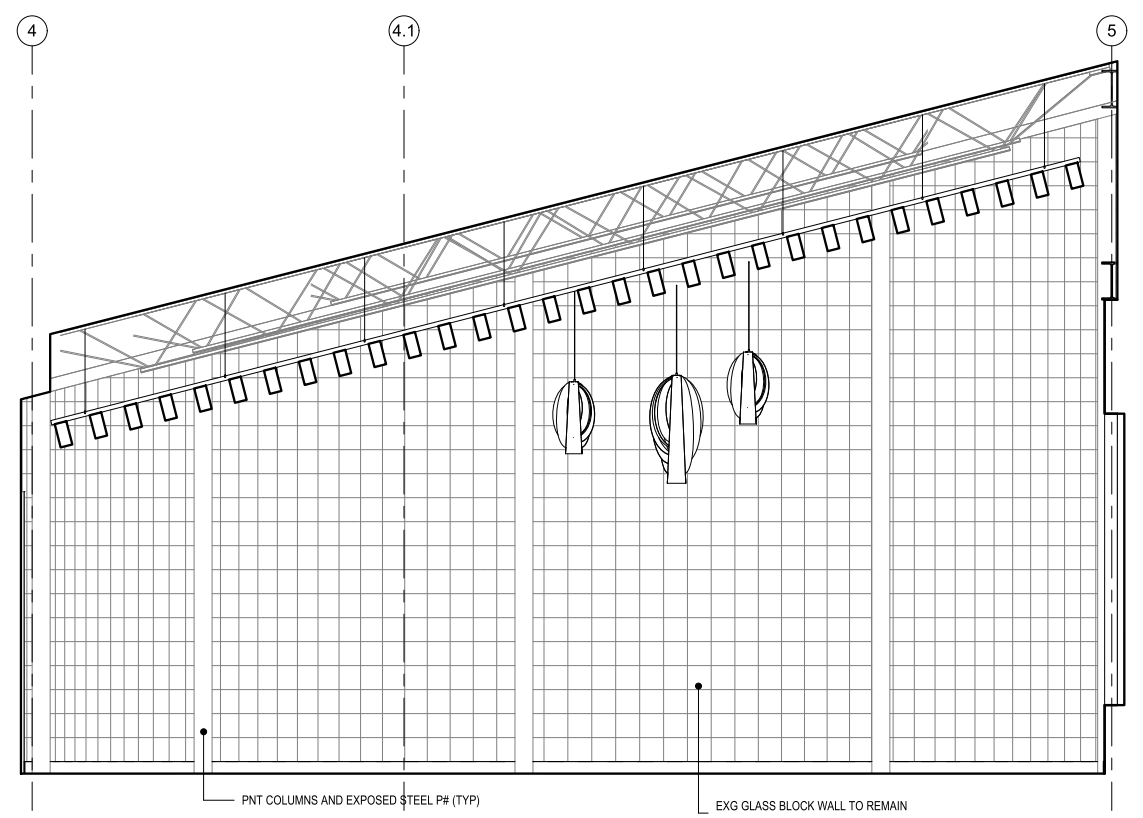

1 A416 LOBBY 100 - EAST IE

0' 2' 4'

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

INTERIOR ELEVATIONS

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

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DATE: **11/13/2018** SHEET NO:

PROJECT NO: **1727** **A416**

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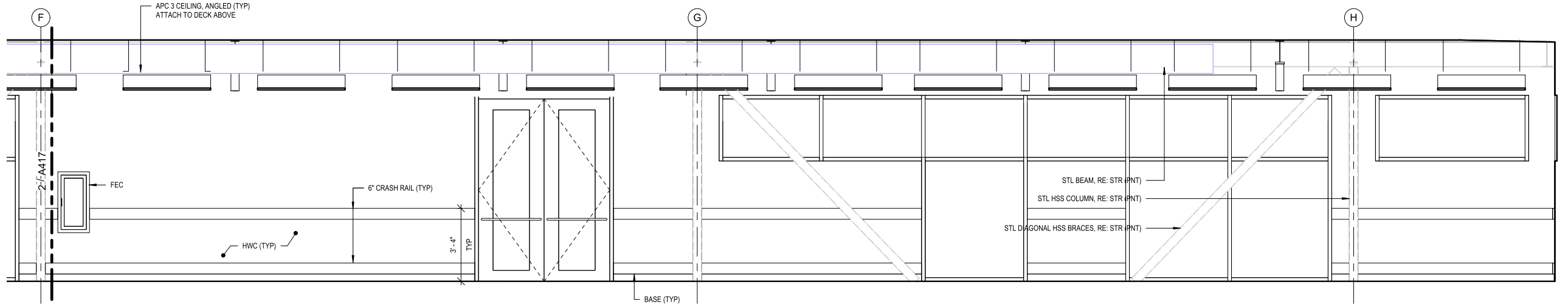
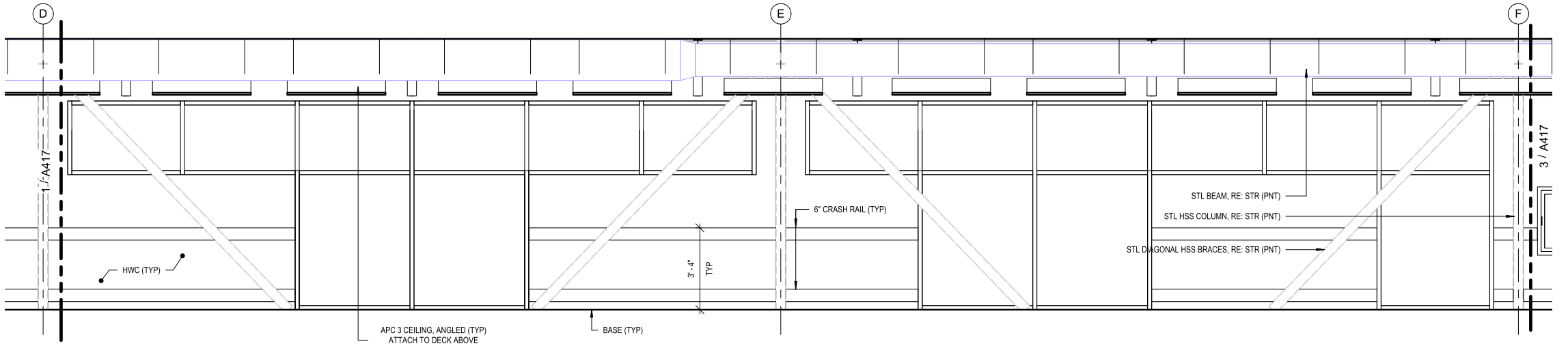


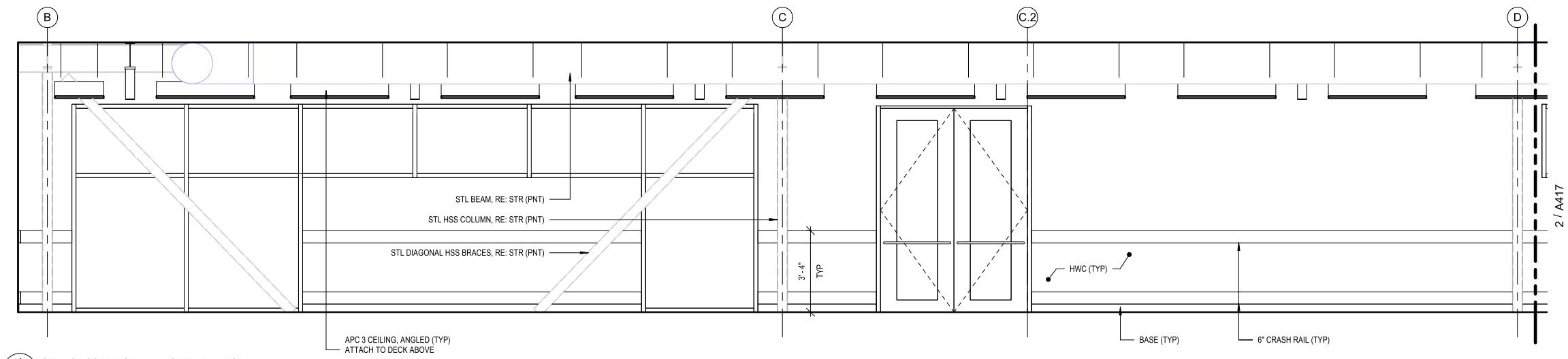
3 A417 SERVICE CORRIDOR 101 - NORTH IE - EAST

0' 2' 4'



2 A417 SERVICE CORRIDOR 101 - NORTH IE - CENTER

0' 2' 4'



1 A417 SERVICE CORRIDOR 101 - NORTH IE - WEST

0' 2' 4'

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

INTERIOR ELEVATIONS

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
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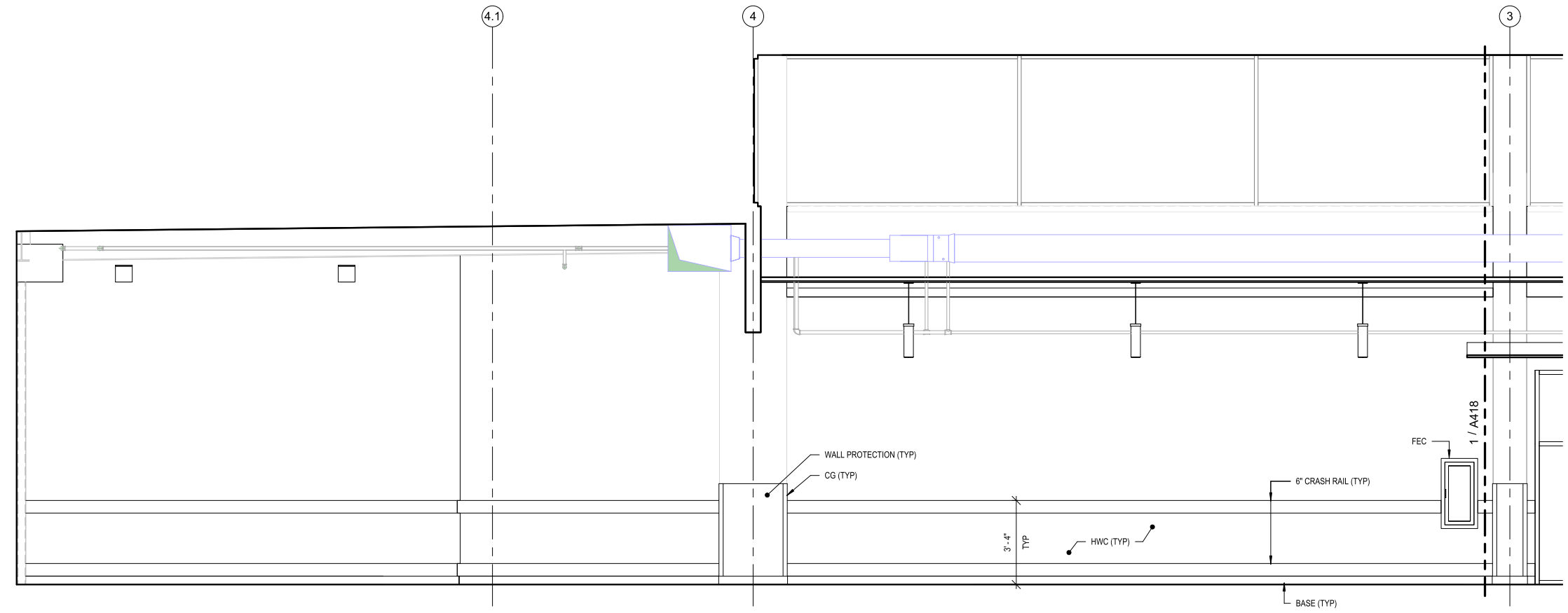
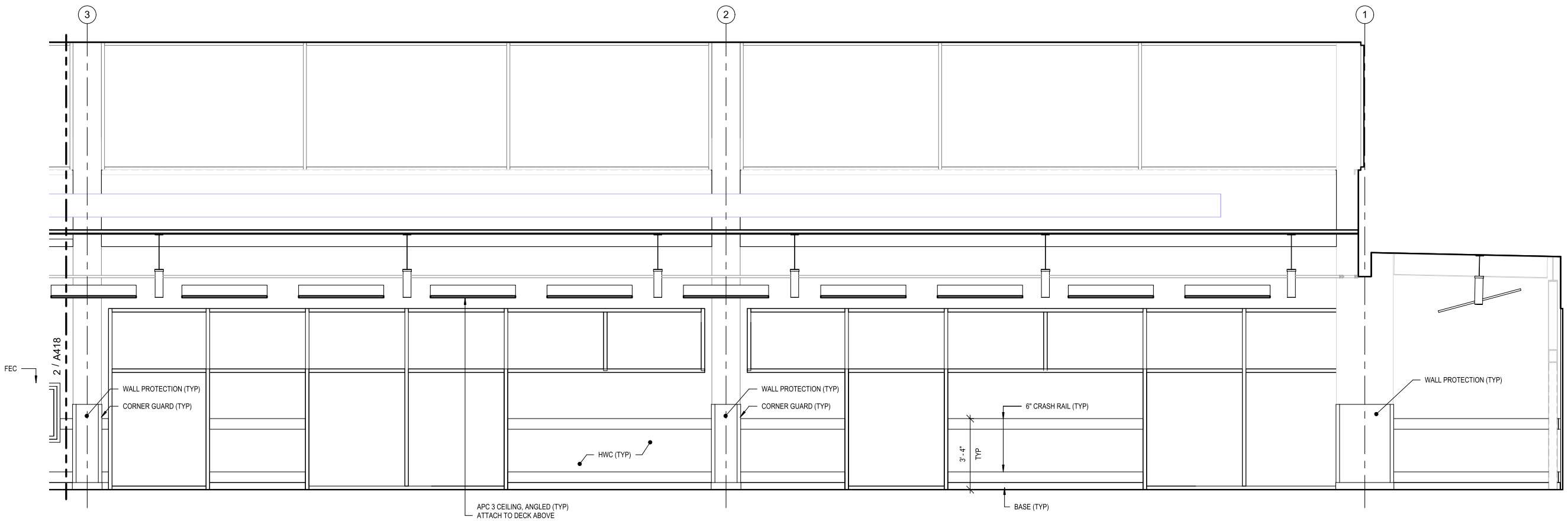


2 A418 SERVICE CORRIDOR 101 - WEST IE - SOUTH

0 2' 4'



1 A418 SERVICE CORRIDOR 101 - WEST IE - NORTH

0 2' 4'

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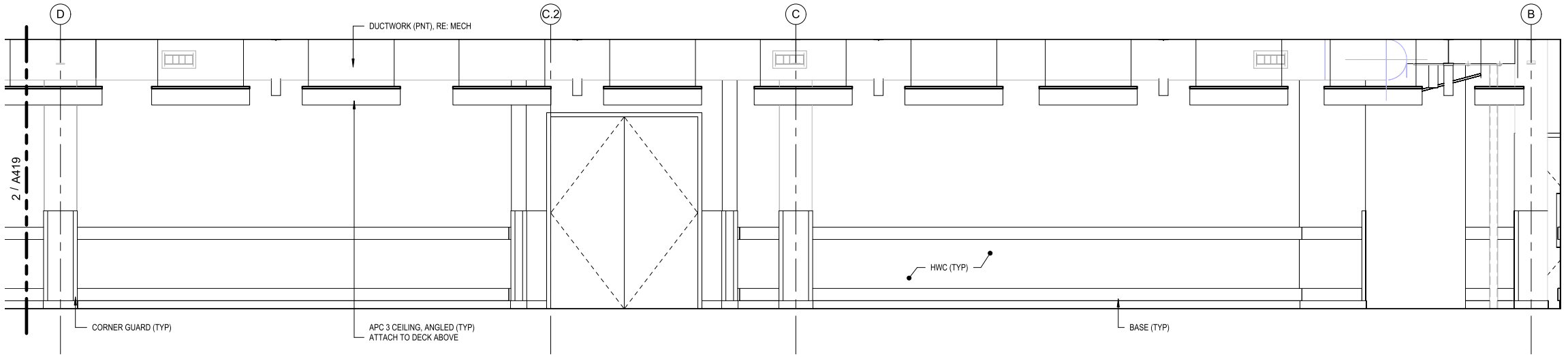
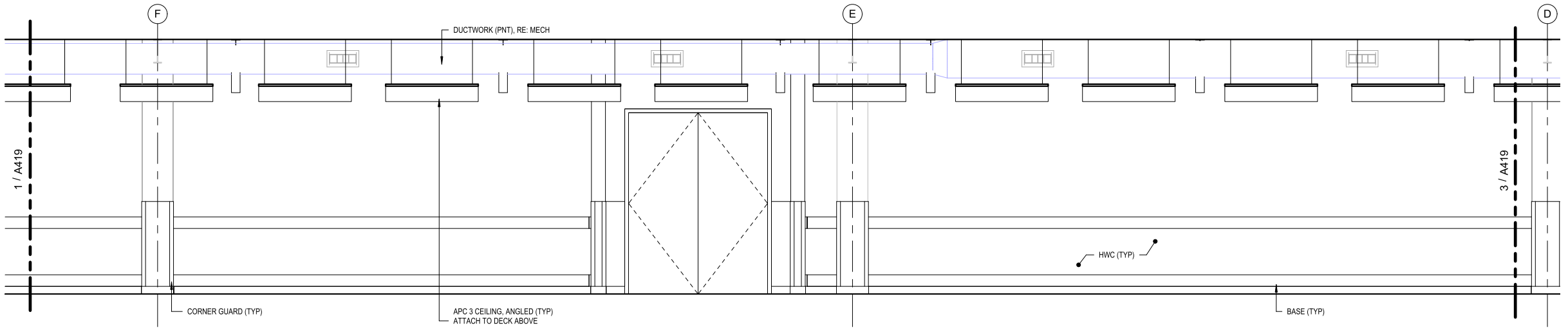
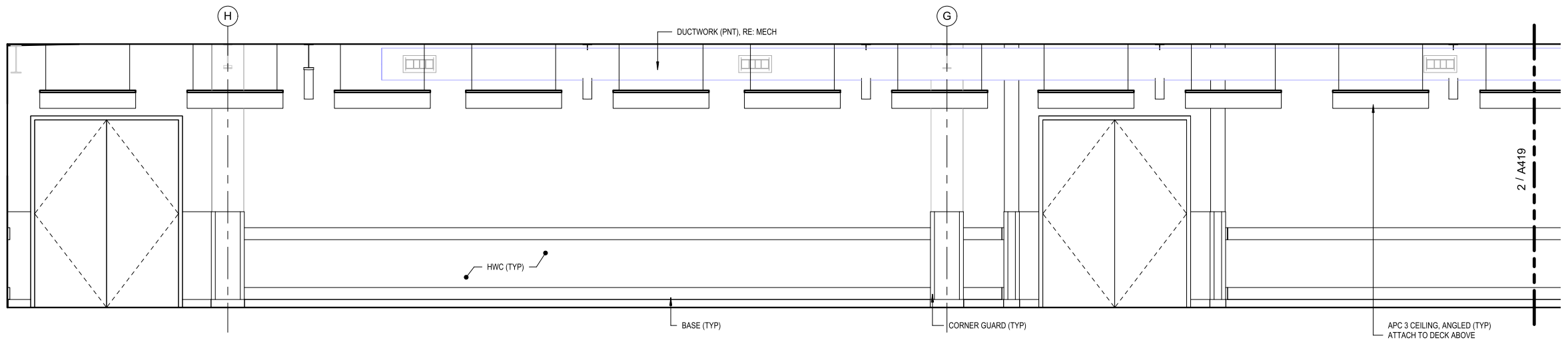


3 / A419 SERVICE CORRIDOR 101 - SOUTH IE - EAST



2 / A419 SERVICE CORRIDOR 101 - SOUTH IE - CENTER



1 / A419 SERVICE CORRIDOR 101 - SOUTH IE - WEST

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INTERIOR ELEVATIONS

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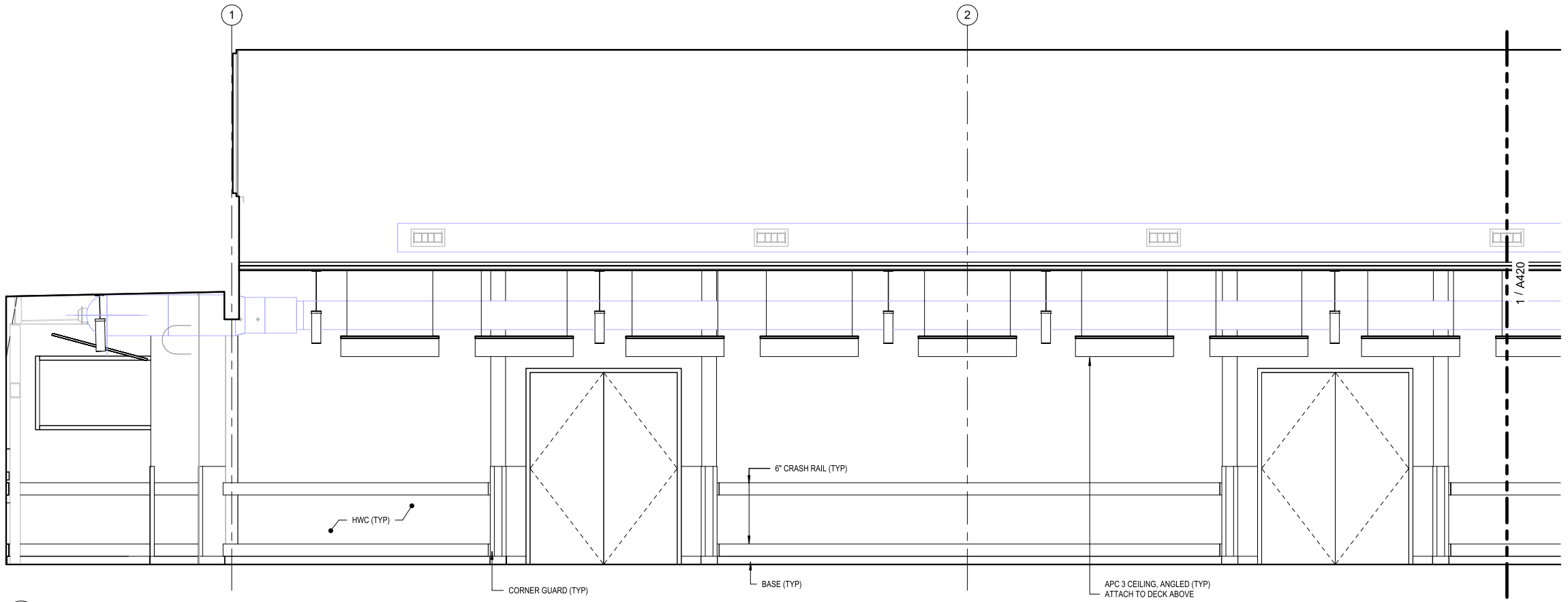
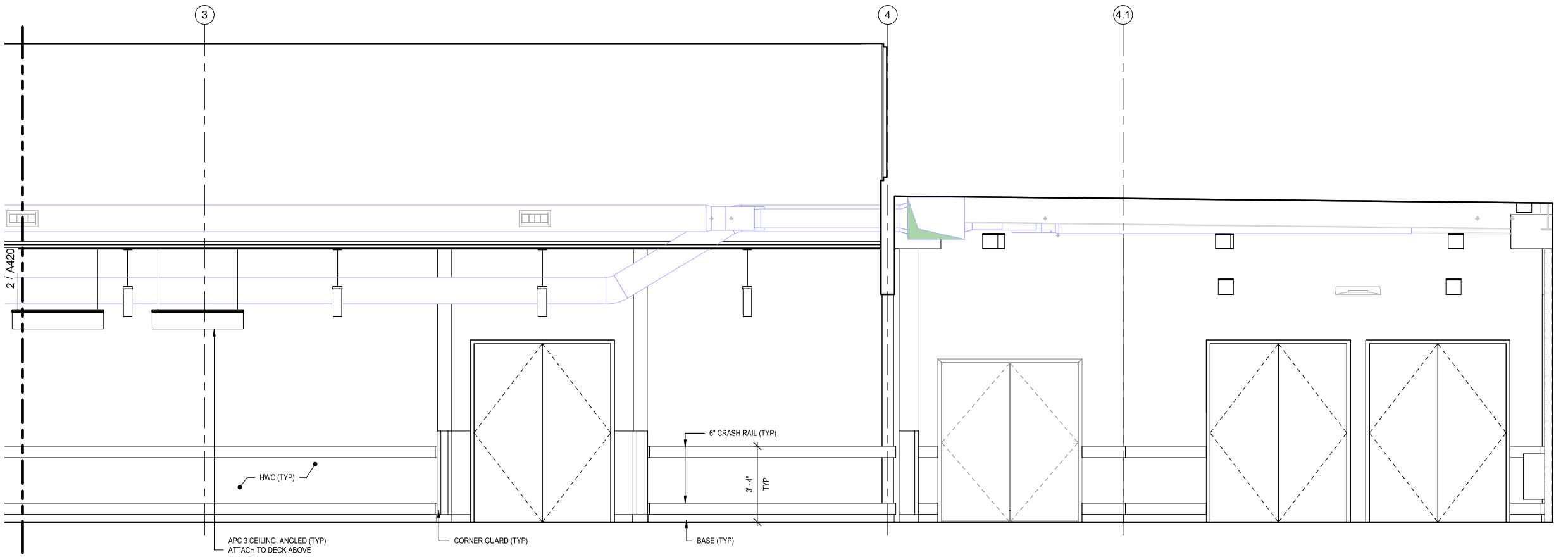


2 A420 SERVICE CORRIDOR 101 - EAST IE - NORTH

0' 2' 4'



1 A420 SERVICE CORRIDOR 101 - EAST IE - SOUTH

0' 2' 4'

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GRAND JUNCTION, COLORADO

INTERIOR ELEVATIONS

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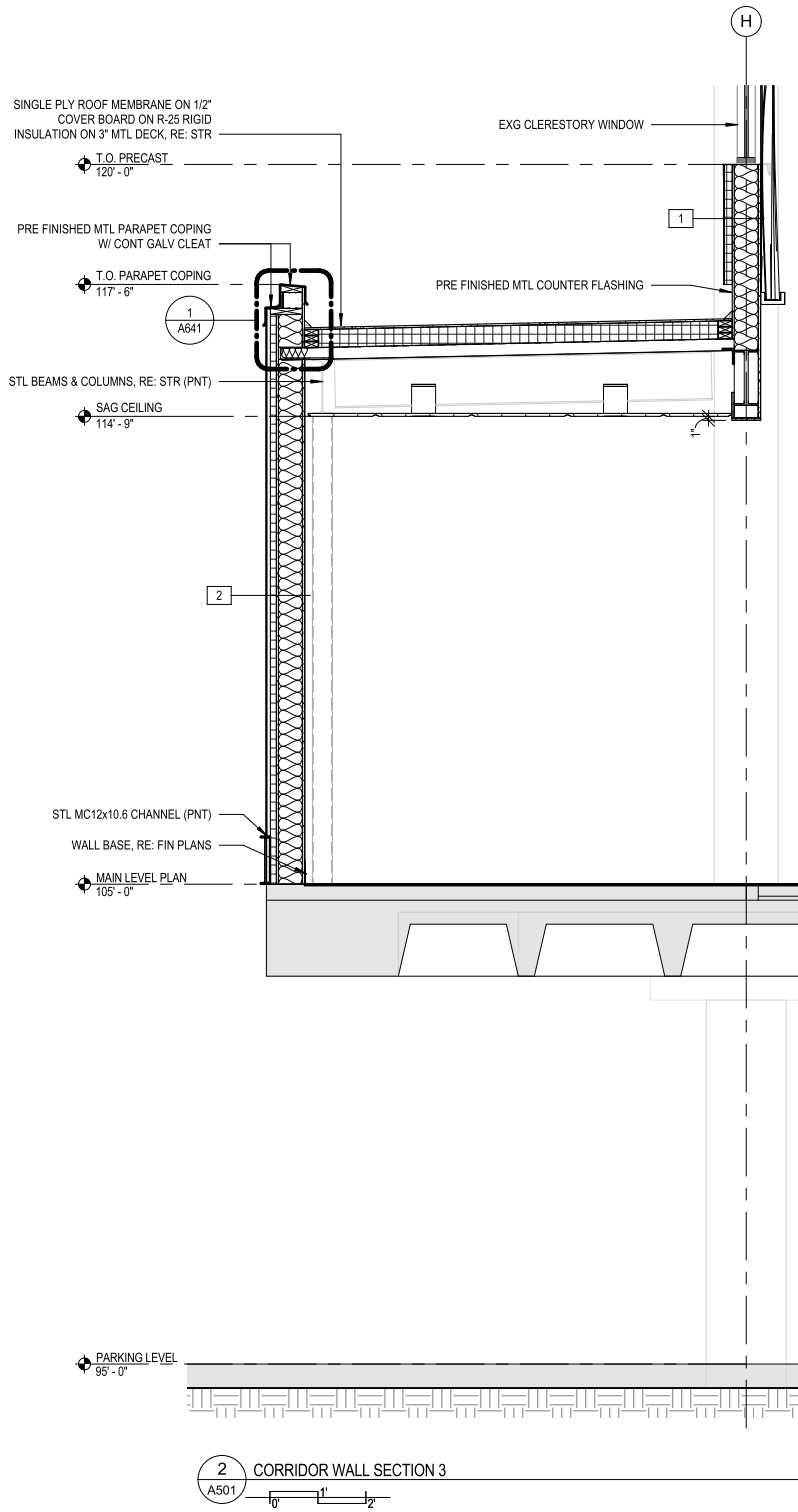
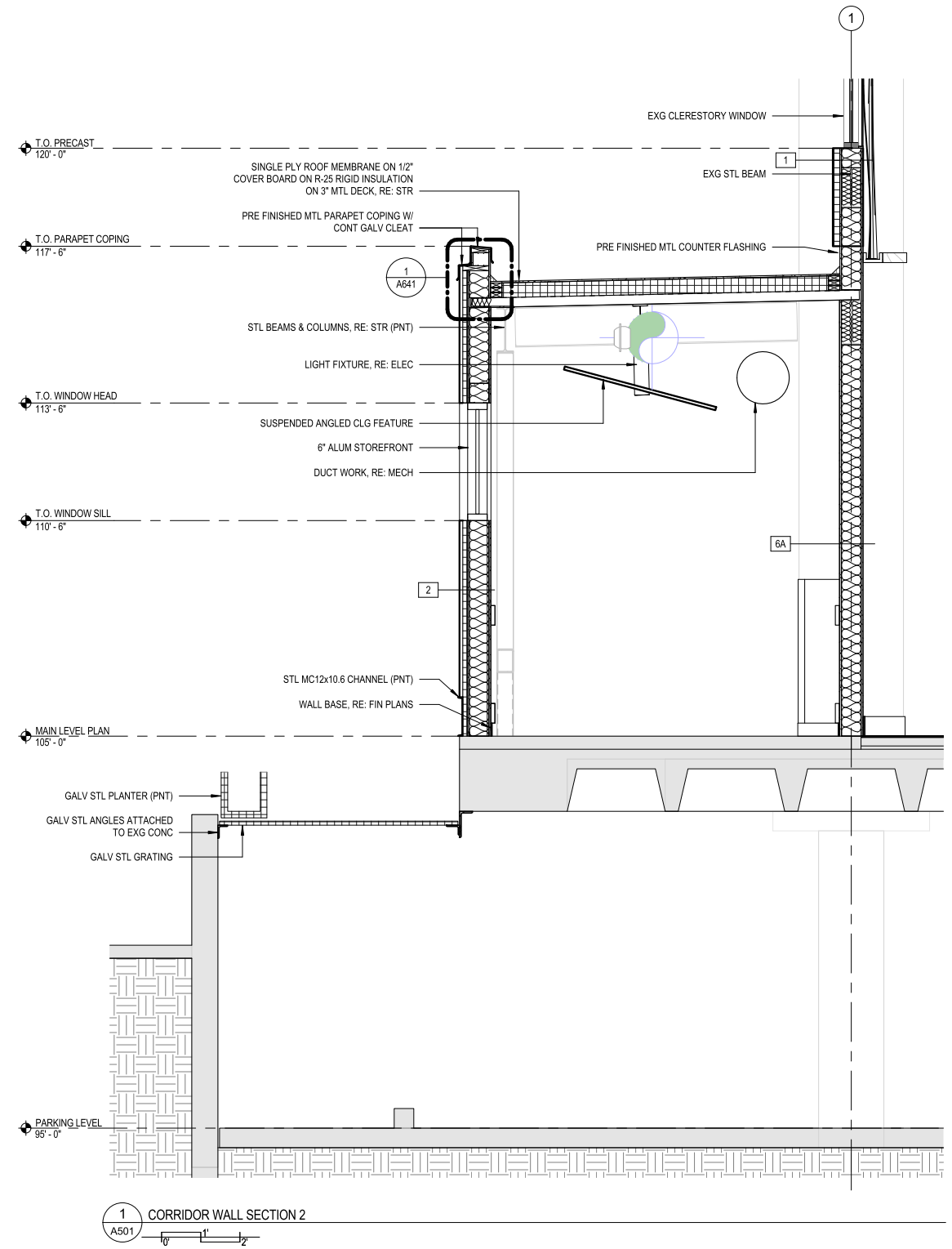


2 A501 CORRIDOR WALL SECTION 3



1 A501 CORRIDOR WALL SECTION 2

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GRAND JUNCTION, COLORADO

WALL SECTIONS

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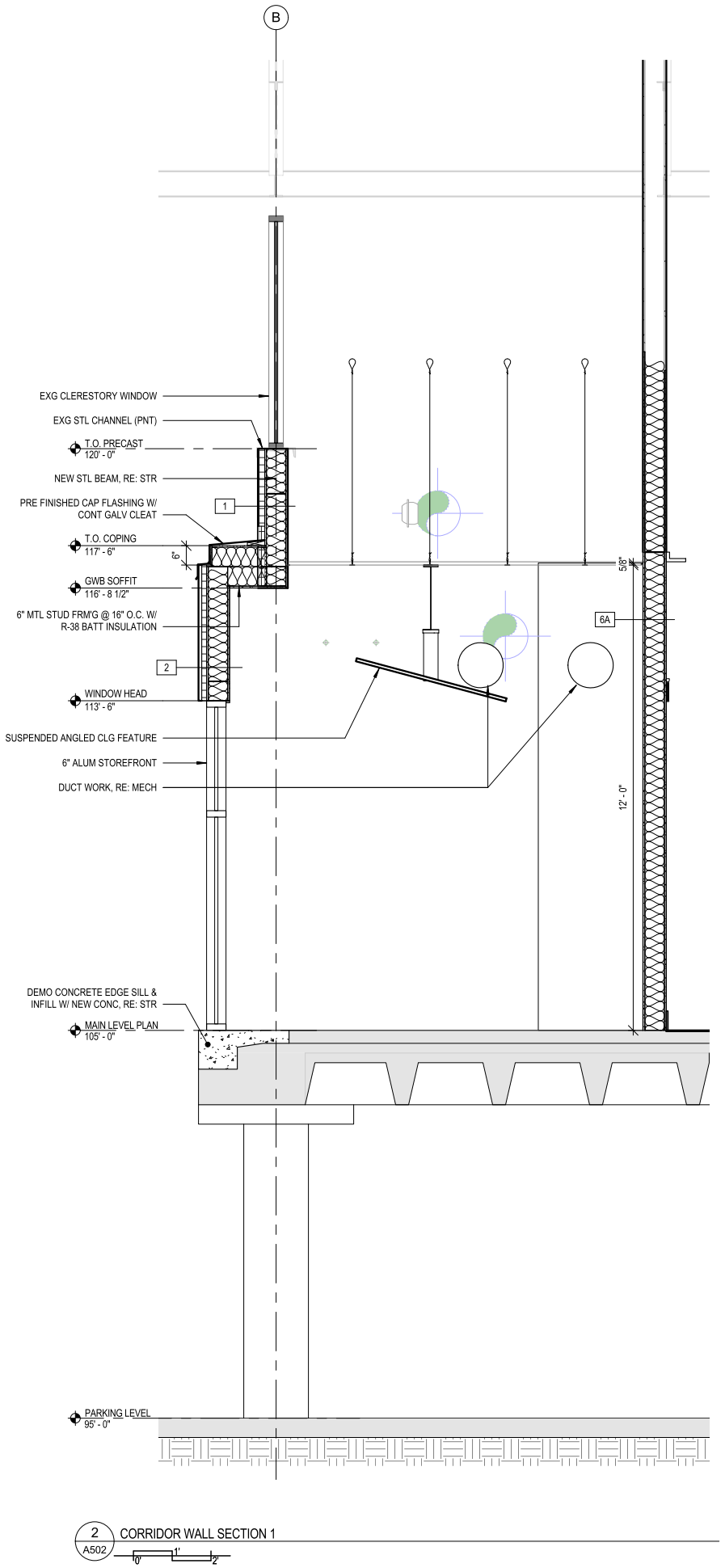
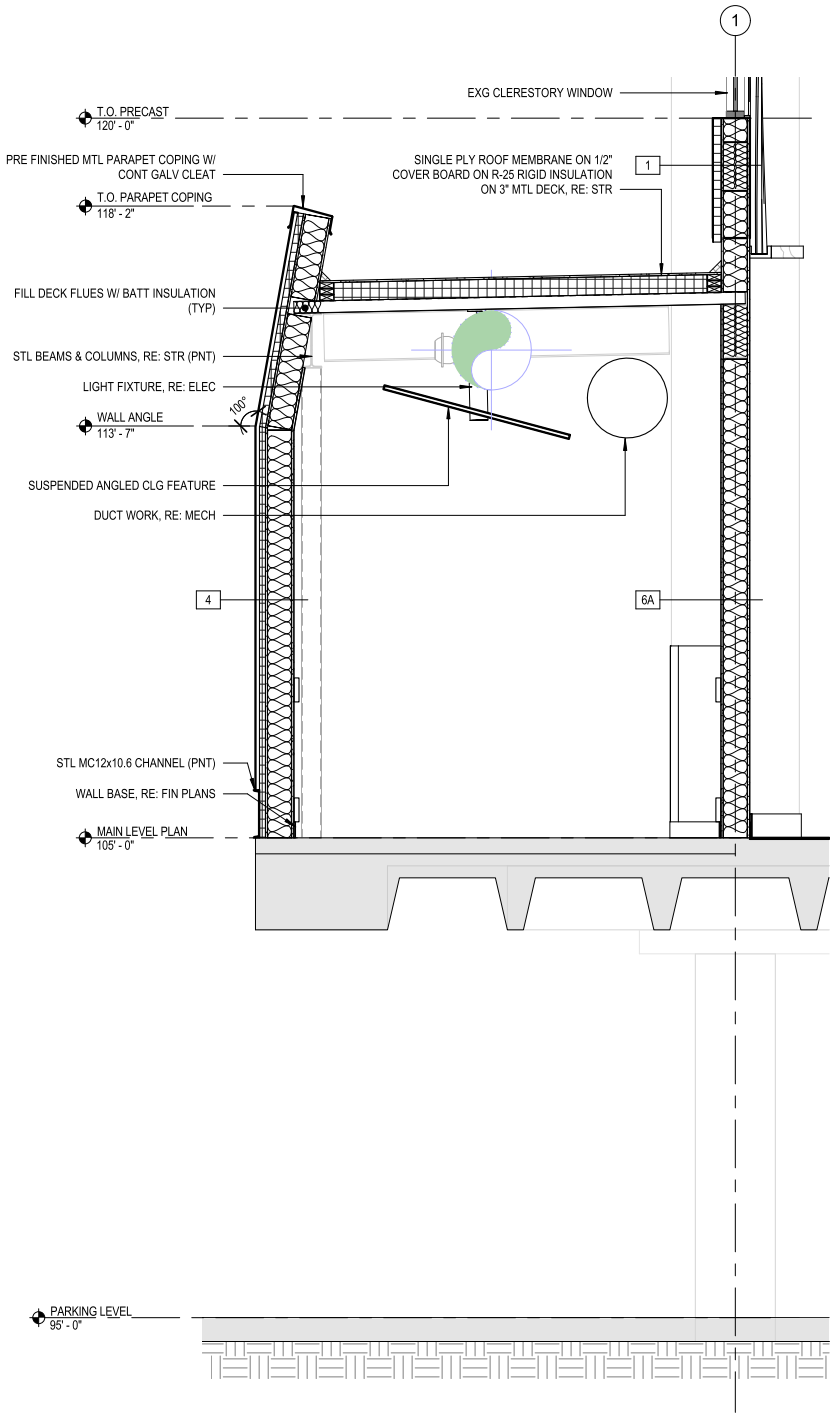


2 A502 CORRIDOR WALL SECTION 1

0' 1' 2'



1 A502 CORRIDOR WALL SECTION 4

0' 1' 2'

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WALL SECTIONS

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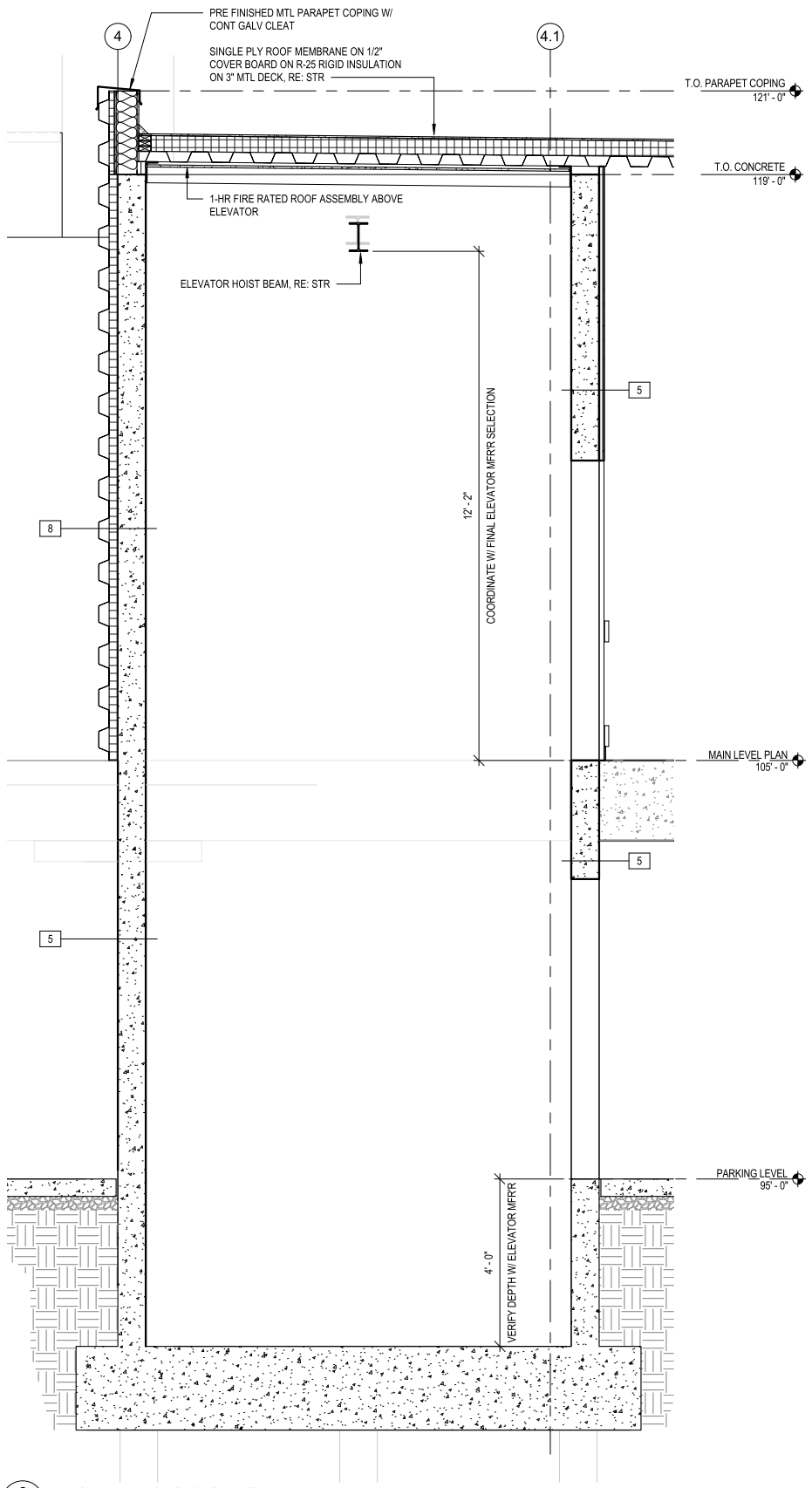
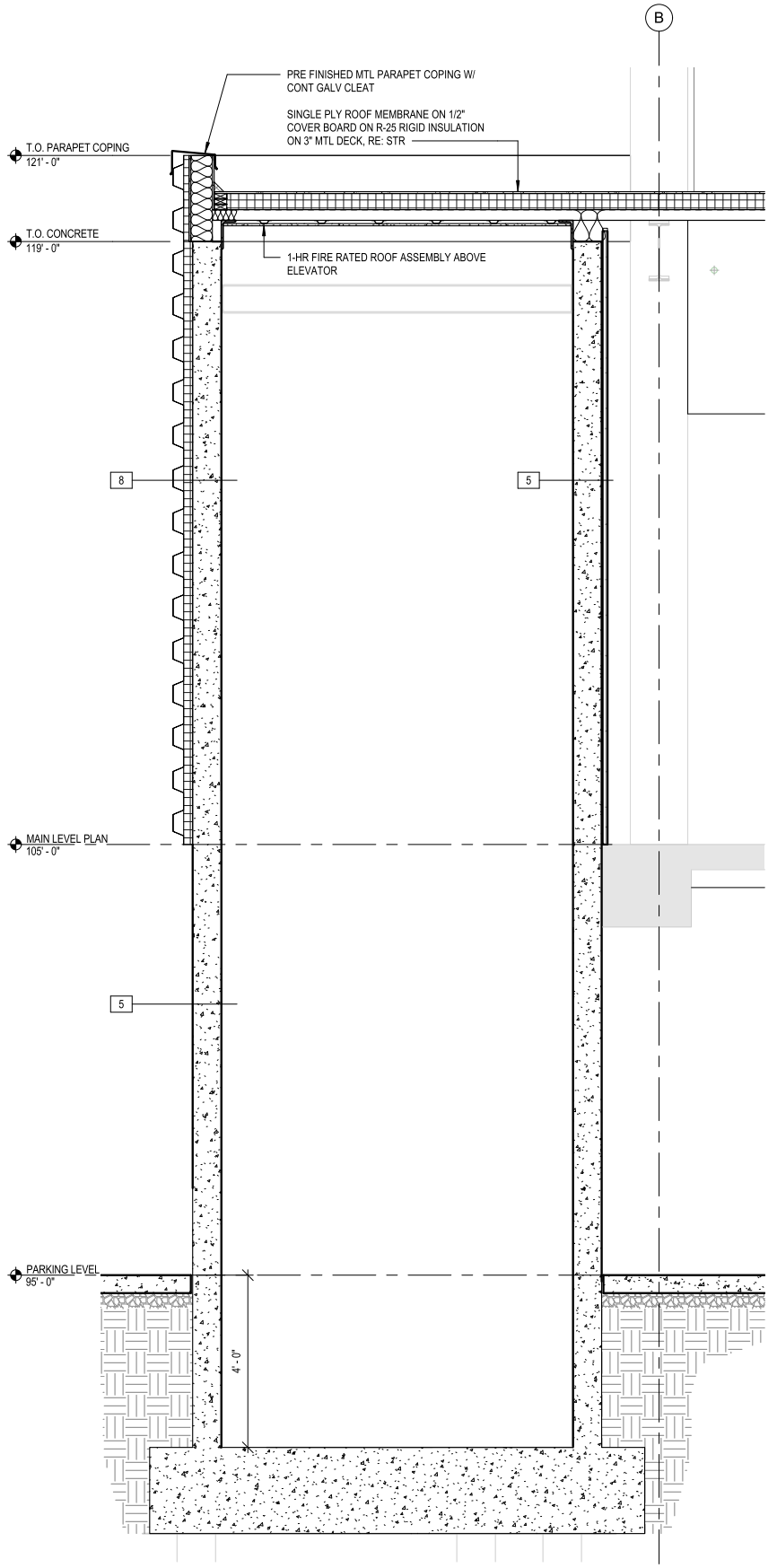


2 A503 FREIGHT ELEVATOR SECTION - N/S

0' 1' 2'



1 A503 FREIGHT ELEVATOR SECTION - E/W

0' 1' 2'

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WALL SECTIONS

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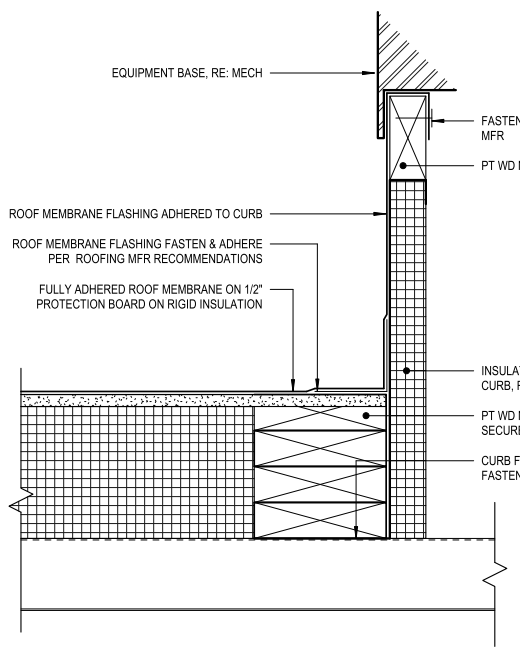
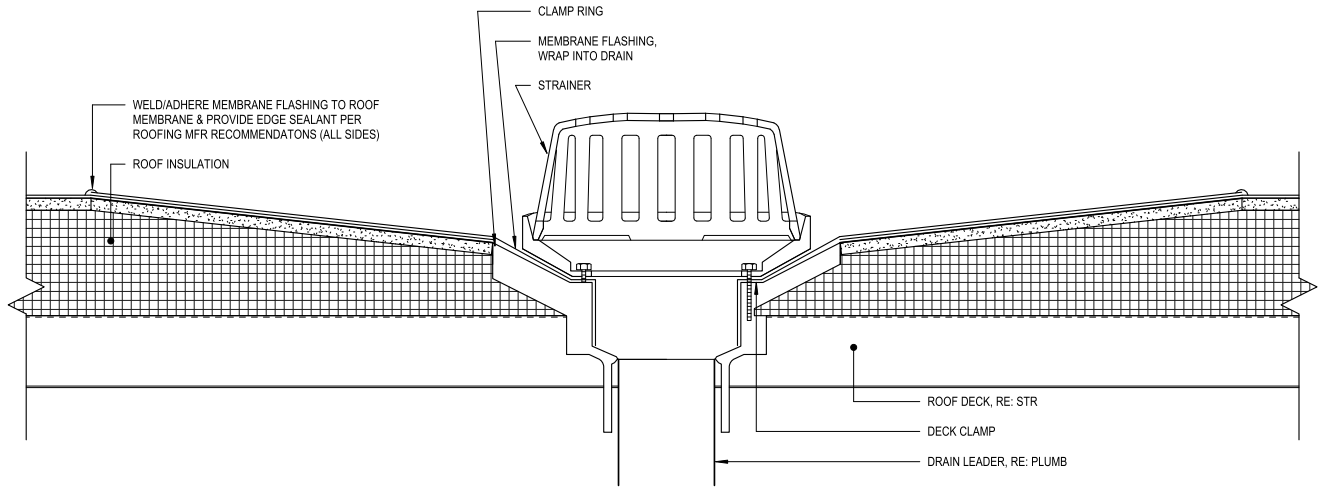
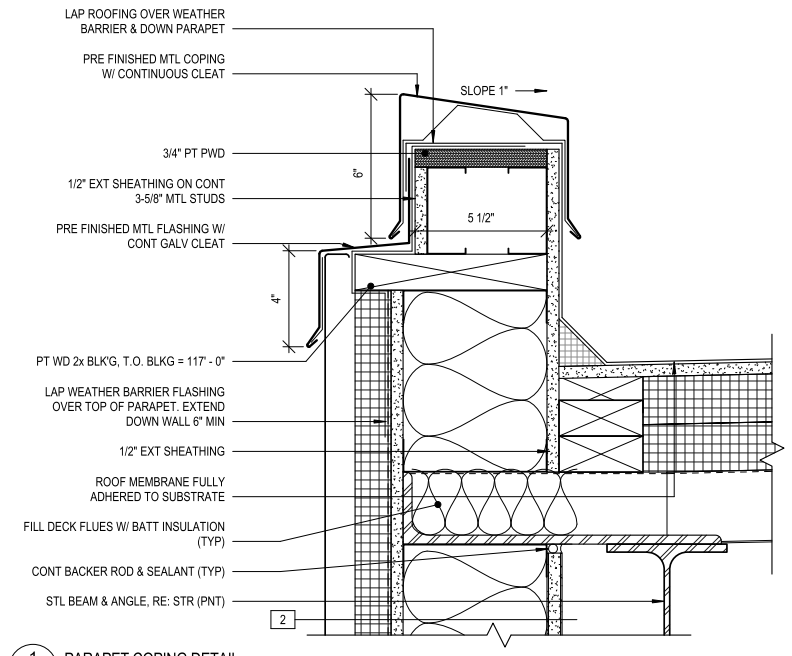
4 A641 TYP ROOF PENETRATION DETAIL



3 A641 MECHANICAL UNIT CURB DETAIL



2 A641 TYP ROOF DRAIN DETAIL



1 A641 PARAPET COPING DETAIL

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ROOF DETAILS

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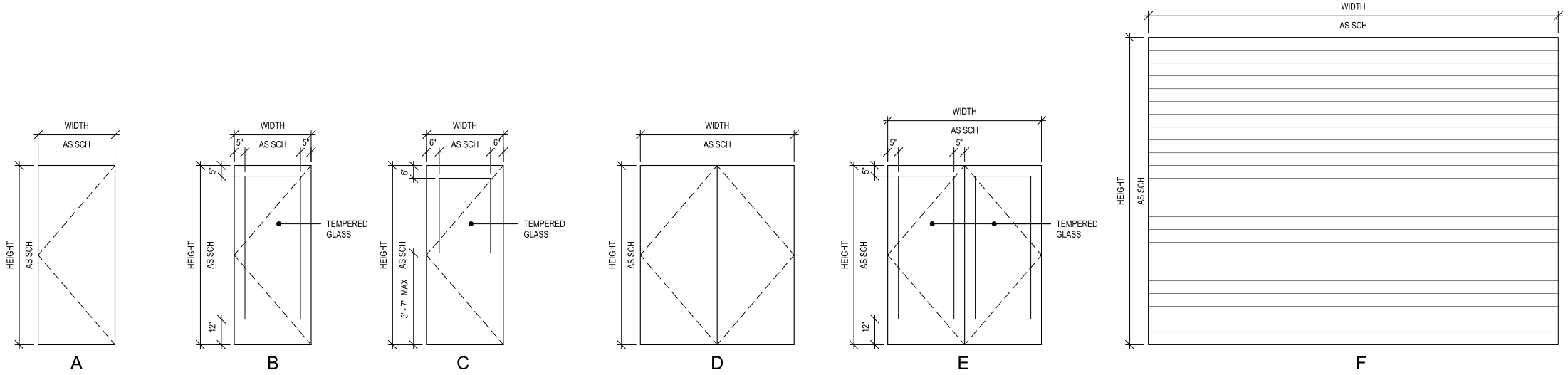
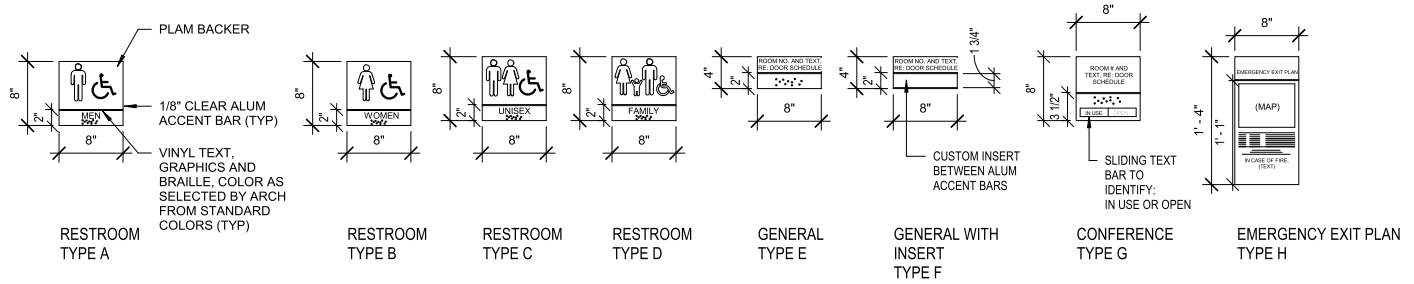
DOOR SCHEDULE

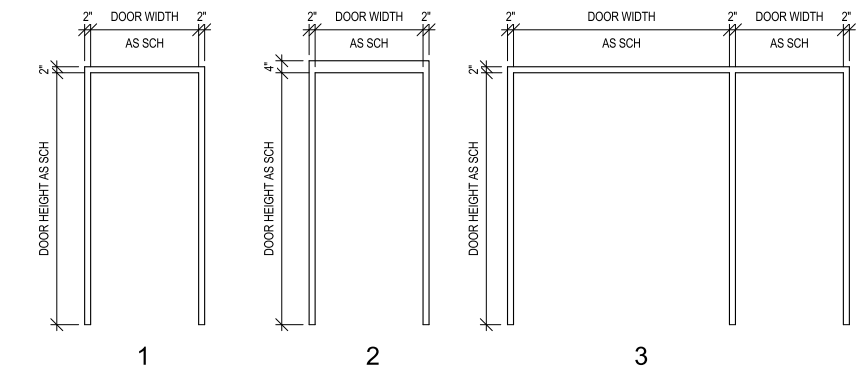
DOOR NO.	DOOR W	DOOR H	DOOR T	DOOR MATERIAL	DOOR TYPE	DOOR FIRE RATING	FRAME MATERIAL	FRAME TYPE	FRAME DETAIL JAMB	FRAME DETAIL HEAD	FRAME DETAIL SILL	HDWR SET	NOTES	SIGNAGE SIGN TYPE	SIGNAGE TEXT
002A	3' - 0"	7' - 0"	1 3/4"	HM	A	-	HM	2					STOREROOM		
002B	12' - 0"	8' - 0"	2"	HM	A	-	HM	2					STOREROOM		
005	4' - 6"	7' - 0"	0"			45 MIN							BY ELEVATOR MFRR		
101A	3' - 0"	7' - 0"	1 3/4"	HM	A	-	HM	3					EGRESS		
101B	6' - 0"	7' - 0"	1 3/4"	HM	D	-	HM	3					EGRESS		
101C	6' - 0"	8' - 4"	1 3/4"	ALUM	E	-	ALUM	1					EGRESS		
101D	6' - 0"	8' - 4"	1 3/4"	ALUM	E	-	ALUM	1					EGRESS		
102A	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102B	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102C	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102D	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102E	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102F	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102G	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102H	6' - 0"	7' - 10"	1 3/4"	WD	A	-	HM	1					ENTRY		
103A	6' - 0"	7' - 10"	1 3/4"	WD	C	-	HM	1					EGRESS		
103B	6' - 0"	7' - 10"	1 3/4"	WD	C	-	HM	1					EGRESS		
106	16' - 0"	12' - 0"	2"	STL	F	-	STL	-					AUTOMATIC KEY TURN		
109	3' - 0"	7' - 10"	1 3/4"	WD	A	-	HM	1					OFFICE		
109	16' - 0"	12' - 0"	2"	STL	F	-	STL	-					AUTOMATIC KEY TURN		
110	3' - 0"	7' - 0"	1 3/4"	WD	A	-	HM	1					OFFICE		
116	3' - 0"	7' - 0"	1 3/4"	WD	C	-	HM	1					OFFICE		
130	4' - 6"	7' - 0"	0"			45 MIN							BY ELEVATOR MFRR		
E101	6' - 0 1/4"	8' - 0 1/8"	1 3/4"												
E102	3' - 0 1/4"	7' - 0 1/8"	1 3/4"												
E102I	6' - 0"	7' - 10"	1 3/4"												
E102J	6' - 0"	7' - 10"	1 3/4"												
E102K	6' - 0"	7' - 10"	1 3/4"												
E102L	6' - 0"	7' - 10"	1 3/4"												
E111	3' - 1 3/8"	7' - 10 1/8"	1 3/4"												
E112	7' - 4"	7' - 8"	0"												
E120A	3' - 0"	7' - 0"	1 3/4"												
E120B	3' - 0"	7' - 0"	1 3/4"												
E120C	12' - 0"	6' - 8"	1 3/4"												
E125	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E126A	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E126B	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E127A	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E127B	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E128	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		



2 A701 DOOR TYPES



3 A701 SIGN TYPES



1 A701 FRAME TYPES

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GRAND JUNCTION, COLORADO

DOOR TYPES & SCHEDULE

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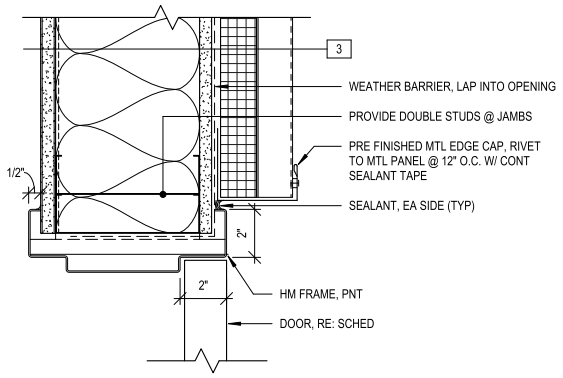
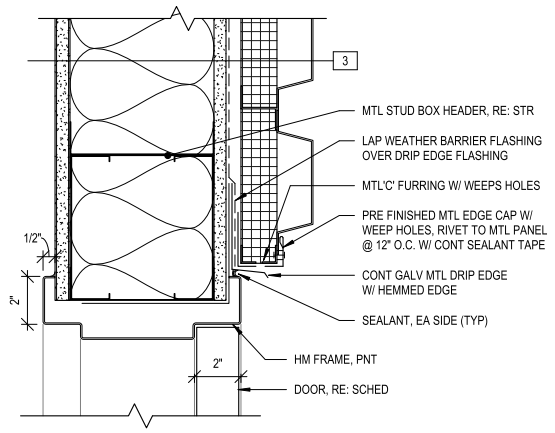
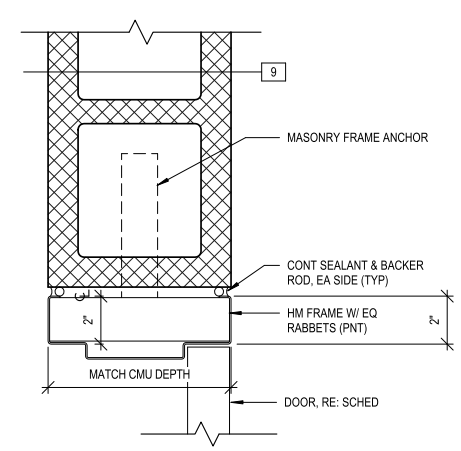


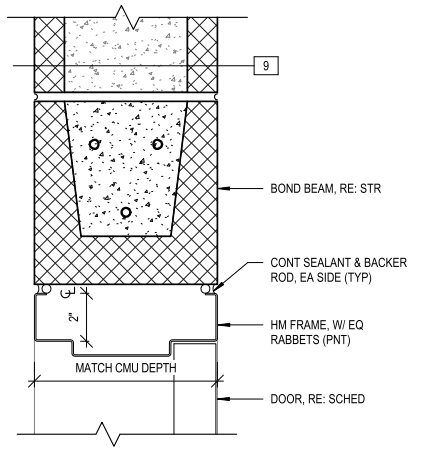
10 A702 EXT DOOR JAMB @ MTL SIDING



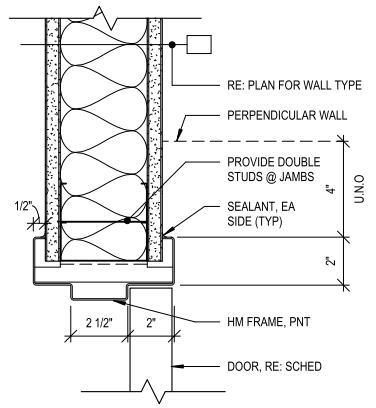
9 A702 EXT DOOR HEAD @ MTL SIDING



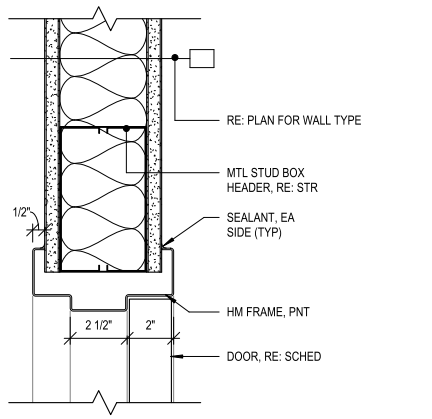
8 A702 HM DOOR JAMB @ CMU



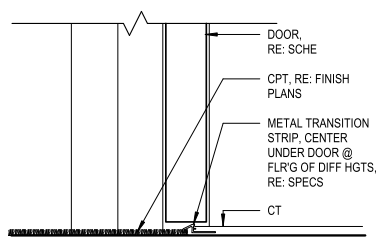
7 A702 HM DOOR HEAD @ CMU



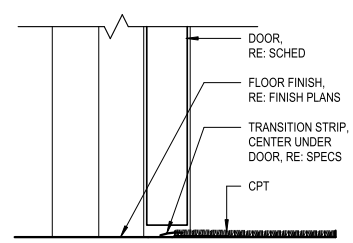
4 A702 INT DOOR JAMB



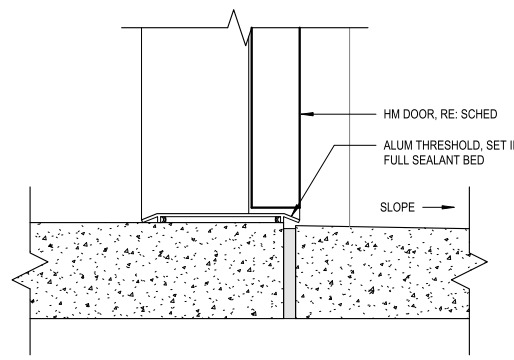
3 A702 INT DOOR HEAD



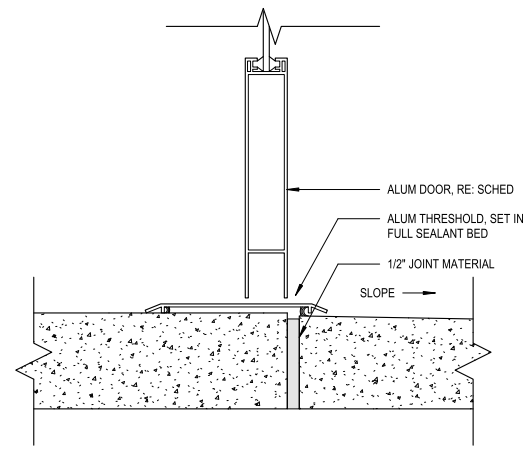
6 A702 DOOR THRESHOLD @ CT TO CPT



5 A702 DOOR THRESHOLD @ CPT TO CONC



2 A702 HM DOOR THRESHOLD DETAIL



1 A702 ALUMINUM STOREFRONT THRESHOLD DETAIL

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

DOOR DETAILS

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO:

PROJECT NO: 1727 **A702**

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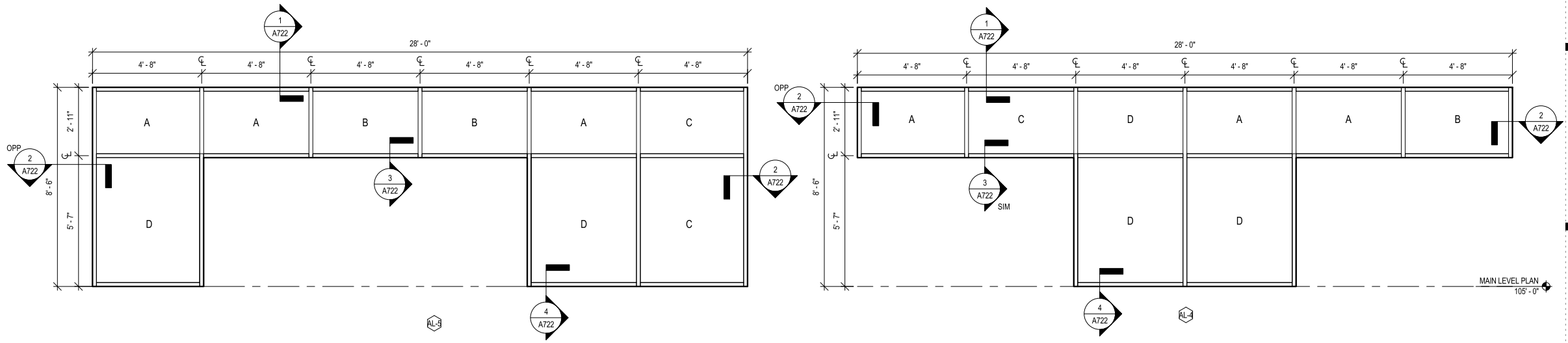
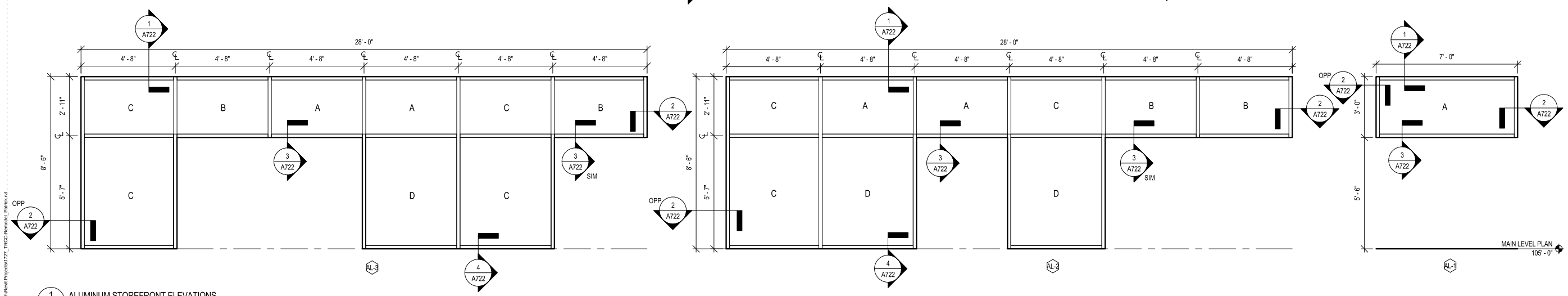
GLAZING LEGEND

A	CLEAR
B	COLORED
C	MIRRORED
D	SPANDREL





1 A721 ALUMINUM STOREFRONT ELEVATIONS

0' 2' 4'

TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

WINDOW TYPES

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
CD

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4 A722 ALUM STOREFRONT SILL @ CONC

3 A722 ALUM STOREFRONT SILL @ SIDING

2 A722 ALUM STOREFRONT JAMB

1 A722 ALUM STOREFRONT HEAD

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

WINDOW DETAILS

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

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DATE: **11/13/2018** SHEET NO: **A722**

PROJECT NO: **1727**

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ELECTRICAL LEGEND

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

LIGHTING

UPPER CASE LETTER AT LUMINAIRES (EX: F1) INDICATES LUMINAIRE TYPE.

F1 = ALL LUMINAIRES IN AREA ARE TYPE F1, UNO

SHADING WITHIN LUMINAIRE DENOTES SECTION ON EMERGENCY POWER.

- RECESSED DOWNLIGHT
- SHADING INDICATES EMERGENCY LUMINAIRE
- SURFACE MOUNTED NON-LINEAR LUMINAIRE
- DIRECTIONAL ACCENT OR WALL-WASH LUMINAIRE
- WALL MOUNTED LUMINAIRE
- STEP LIGHT OR RECESSED WALL LUMINAIRE
- RECESS MOUNTED DIRECTIONAL LUMINAIRE
- SURFACE MOUNTED RECTALINEAR LUMINAIRE
- WALL MOUNTED LINEAR LUMINAIRE
- RECESS MOUNTED LUMINAIRE
- SURFACE MOUNTED LUMINAIRE HIDDEN UNDER COVE, CABINET, ETC.
- PENDANT MOUNTED LINEAR LUMINAIRE
- STRIP LUMINAIRE
- TRACK LIGHT
- TAPE LIGHT
- POLE LUMINAIRE
- EXTERIOR POLE MOUNTED LUMINAIRE
- BOLLARD
- NON-LINEAR PENDANT LUMINAIRE
- LANDSCAPE LUMINAIRE
- CEILING OR WALL MOUNTED EXIT SIGN
- CEILING OR WALL MOUNTED EMERGENCY LIGHT

LIGHTING CONTROLS:

- a = LOWER CASE LETTER INDICATES ZONING
- $ = WALL-MOUNTED LINE VOLTAGE SWITCH
- $$ = INDICATES TWO SWITCHES, ONE FACEPLATE

LINE VOLTAGE SWITCH SUBSCRIPTS:

- 3 = 3-WAY
- 4 = 4-WAY
- D = DIMMER
- K = KEY-OPERATED
- DS = DOOR SWITCH
- T = THERMAL OVERLOAD

- WALL MOUNTED LOW VOLTAGE CONTROL STATION. REFER TO THE LIGHTING CONTROL MATRIX FOR MORE INFORMATION. LOWER CASE LETTERS INDICATE SWITCH LEG.
- CEILING MOUNTED OCCUPANCY SENSOR OR DAYLIGHT SENSOR AS DESIGNATED BELOW, UNO.
- CORNER OR WALL MOUNTED OCCUPANCY SENSOR OR DAYLIGHT SENSOR AS DESIGNATED BELOW, UNO:
  - V = PIR OR DUAL TECH OCCUPANCY SENSOR - SET TO VACANCY MODE, UNO
  - D = DUAL-TECH OCCUPANCY SENSOR - SET TO VACANCY MODE, UNO
  - P = PHOTOCELL

POWER

- STRAIGHT BLADE DUPLEX RECEPTACLE
  - SUBSCRIPTS:
    - HG = HOSPITAL GRADE
    - HGT = HOSPITAL GRADE TAMPER RESISTANT
    - GFI = GROUND FAULT INTERRUPTER
    - SS = SURGE SUPPRESSION
    - AC = 6" ABOVE COUNTER
- STRAIGHT BLADE DOUBLE DUPLEX RECEPT. (FOURPLEX)
- STRAIGHT BLADE SINGLE RECEPTACLE
- STRAIGHT BLADE DUPLEX RECEPT. HALF-SWITCHED
- STRAIGHT BLADE DUPLEX RECEPT. ON EMERGENCY CIRCUIT
- OUTLET WITH SPECIAL DEVICE, AS NOTED
- WALL MOUNTED OUTLET WITH SPECIAL DEVICE, AS NOTED
- FLOOR MOUNTED RECEPTACLE, AS NOTED
- FLOOR MOUNTED COMBINATION OUTLET BOX, AS NOTED
- POKE THROUGH, AS NOTED
- PEDESTAL OUTLET, AS NOTED
- JUNCTION BOX, AS NOTED
- JUNCTION BOX
- WALL MOUNTED JUNCTION BOX
- SURFACE RACEWAY, AS NOTED
- CLOCK HANGER OUTLET
- TELE-POWER POLE
- PULL BOX
- CONNECTION TO MOTOR
- MAGNETIC MOTOR STARTER
  - SUBSCRIPTS:
    - MS = MULTISPEED
    - SSRV = SOLID-STATE, REDUCED VOLTAGE
    - VF = VARIABLE FREQUENCY
- SAFETY DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION DISCONNECT AND STARTER
- ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC FIXED
  - SUBSCRIPTS:
    - ST = SHUNT TRIP
- CONNECTION TO PRE-WIRED EQUIPMENT
- PANELBOARD
- MCC = MOTOR CONTROL CENTER
- EPO = EMERGENCY POWER OFF SWITCH
- SPD = SURGE PROTECTIVE DEVICE
- T = TRANSFORMER
- G = ENGINE GENERATOR

PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR OR GRADE TO CENTERLINE OF OUTLET.

SCHEMATIC WIRING GRAPHICS

- METER
- GROUND CONNECTION AS NOTED
- DISCONNECT SWITCH
- FUSES
- MAGNETIC MOTOR STARTER
  - SUBSCRIPTS:
    - MS = MULTISPEED
    - SSRV = SOLID-STATE, REDUCED VOLTAGE
    - VF = VARIABLE FREQUENCY
- CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC FIXED
  - SUBSCRIPTS:
    - AT = ADJUSTABLE INSTANTANEOUS TRIP
    - EAT = ELECTRONIC ADJUSTABLE TRIP
    - CL = CURRENT LIMITING
    - IC = INSULATED CASE
    - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
    - ST = SHUNT TRIP
    - KI = KEY INTERLOCK
    - ZSI = ZONE-SELECTIVE INTERLOCKING
- ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC FIXED
- ENCLOSED FUSED DISCONNECT SWITCH
- POWER TRANSFORMER
- CURRENT TRANSFORMER
- AMMETER
- VOLT METER
- TRANSFER SWITCH
- GF = GROUND FAULT PROTECTION
- G = GENERATOR
- 3 = MOTOR, NUMBER INDICATES HORSEPOWER

FIRE ALARM

- FACP = FIRE ALARM CONTROL PANEL
- FSGP = FIRE ALARM GRAPHICS PANEL
- FSCP = FIREFIGHTERS SMOKE CONTROL PANEL
- APS = BOOSTER POWER SUPPLY
- GANN = POINT LED GRAPHIC ANNUNCIATOR
- M = MANUAL PULL STATION
- S = PHOTOELECTRIC SMOKE DETECTOR
- H = HEAT DETECTOR
- D = DUCT DETECTOR WITH TEST SWITCH
- SPEAKER/STROBE
- SPEAKER
- STROBE
- HORN/STROBE
- WPH = WEATHERPROOF HORN/STROBE
- WPS = WEATHERPROOF SPEAKER/STROBE
- FJ = FIREFIGHTER'S TELEPHONE JACK
- W = WARDEN'S TELEPHONE
- SPRINKLER WATER FLOW SWITCH
- SPRINKLER VALVE TAMPER SWITCH
- I = INPUT/OUTPUT MODULE
- R = CONTROL RELAY
- M = SIGNAL MODULE
- M = SIGNAL MONITOR MODULE
- M = DUAL INPUT MODULE
- FIRE/SMOKE DAMPER
- H = DOOR HOLDER (120V)
- D = CARBON MONOXIDE DETECTOR
- CP = TWO-WAY COMMUNICATION PANEL
- CS = TWO-WAY COMMUNICATION STATION

COMMUNICATION SYSTEM

- FLOOR MOUNTED TELEPHONE AND/OR DATA OUTLET BOX, AS NOTED
- WALL MOUNTED TELEPHONE OUTLET
- WALL MOUNTED DATA OUTLET
- WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET BOX
- W = WALL MOUNTED TELEPHONE OUTLET, +48" AFF
- P = PAY PHONE
- TELEPHONE TERMINAL BOARD - TTB
- S = CEILING OR WALL MOUNTED SPEAKER
- V = VOLUME CONTROL
- M = FLOOR OR WALL MOUNTED MICROPHONE OUTLET
- C = CALL-IN SWITCH
- T = TIME-TONE UNIT
- CLOCK = CEILING OR WALL MOUNTED CLOCK
- B = PROGRAM BELL
- B = BUZZER
- HOUSE PHONE/INTERCOM
- M = MASTER INTERCOM STATION
- TV = TELEVISION OUTLET
- CC = CLOSED CIRCUIT TV OUTLET
- A = AMPLIFIER

CIRCUITING

- CONDUIT RUN
- CIRCUIT HOMERUN TO PANEL OR CABINET, NO. OF ARROWS INDICATE NO. OF CIRCUITS
- CIRCUIT TURNED UP
- CIRCUIT TURNED DOWN
- CONDUIT STUB-OUT - CAP & MARK
- SEALOFF

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ABBREVIATIONS

NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

AC	- ABOVE COUNTER
ADA	- AMERICANS WITH DISABILITIES ACT
AFC	- ABOVE FINISHED CEILING
AFF	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GRADE
AIC	- AMPS INTERRUPTING CURRENT
AL	- ALUMINUM
BFG	- BELOW FINISHED GRADE
CB	- CIRCUIT BREAKER
CR	- CORROSION RESISTANT
CPT	- CONTROL POWER TRANSFORMER
CT	- CURRENT TRANSFORMER
CU	- COPPER
DS	- DOOR SWITCH
ELR	- END OF LINE RESISTOR
EM	- EMERGENCY
EF	- ELECTRONIC LOW VOLTAGE FORWARD PHASE
ER	- ELECTRONIC LOW VOLTAGE REVERSE PHASE
ES	- EMERGENCY STOP
ETM	- ELAPSED TIME METER
EWC	- ELECTRIC WATER COOLER
FLA	- FULL LOAD AMPS
FVNR	- FULL VOLTAGE, NON-REVERSING
FVR	- FULL VOLTAGE, REVERSING
FWE	- FURNISHED WITH EQUIPMENT
GFI	- GROUND FAULT INTERRUPTER
GRC	- GALVANIZED RIGID CONDUIT
HOA	- HAND-OFF-AUTOMATIC
HP	- HORSEPOWER
IG	- ISOLATED GROUND
LC	- LIGHTING CONTACTOR
LOR	- LOCAL-OFF-REMOTE
LS	- LEVEL SWITCH
LT	- LET THROUGH
MCA	- MINIMUM CIRCUIT AMPS
MCB	- MAIN CIRCUIT BREAKER
MCC	- MOTOR CONTROL CENTER
MCCB	- MOLDED CASE CIRCUIT BREAKER
MCP	- MOTOR CIRCUIT PROTECTION
MLO	- MAIN LUGS ONLY
NC	- NORMALLY CLOSED
NIC	- NOT IN CONTRACT
NL	- NIGHT LIGHT
NO	- NORMALLY OPEN
NTS	- NOT TO SCALE
OC	- OVER CURRENT
OL	- OVERLOAD
PT	- POTENTIAL TRANSFORMER
RVNR	- REDUCED VOLTAGE, NON-REVERSING
SC	- SHORT CIRCUIT
SPD	- SURGE PROTECTIVE DEVICE
SR	- SAFE OR STOP/RUN
TTB	- TELEPHONE TERMINAL BOARD
TVSS	- TRANSIENT VOLTAGE SURGE SUPPRESSOR
UG	- UNDERGROUND
UNO	- UNLESS NOTED OTHERWISE
VFD	- VARIABLE FREQUENCY DRIVE
WG	- WIREGUARD
WP	- WEATHERPROOF
XFMR	- TRANSFORMER
XP	- EXPLOSION PROOF
ZS	- LIMIT OR POSITION SWITCH

GENERAL NOTES-FIRE ALARM SYSTEMS

1. VERIFY THAT THE EXISTING FIRE ALARM SYSTEM IS OPERATING PROPERLY AND DOCUMENT ALL DEFICIENCIES PRIOR TO CONSTRUCTION. CONFIRM THAT THERE IS ADEQUATE CAPACITY ON EXISTING CIRCUITS FOR THIS WORK AND UPGRADE THE PANEL AS NECESSARY. PROVIDE BATTERY AND CIRCUIT LOAD CALCULATIONS AS REQUIRED. COMPLETE THE FIRE ALARM PROGRAMMING, UPDATE RELATED GRAPHIC DISPLAYS, AND THEN TEST THE NEW CIRCUITS AT THE END OF THE PROJECT.
2. THE LOCATIONS OF SMOKE DETECTORS SHOWN ARE CONSIDERED TO BE SCHEMATIC ONLY. THE ACTUAL LOCATIONS (SPACING TO ADJACENT DETECTORS, DIFFUSERS, WALLS, ETC.) ARE REQUIRED TO MEET NFPA 72.
3. ALL STROBES AND HORN/STROBES SHALL BE SYNCHRONIZED PER NFPA AND LOCAL REQUIREMENTS.
4. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE CONTRACTOR SHALL OBTAIN A STATE REGISTERED ENGINEER TO REVIEW, SEAL, AND SIGN SHOP DRAWINGS FOR PLAN REVIEW SUBMISSION. THE ENGINEER OF RECORD FOR THESE DRAWINGS SHALL NOT SEAL THE FIRE ALARM SHOP DRAWINGS.

GENERAL NOTES (FOR ALL ELECTRICAL SHEETS)

1. THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
2. REFER TO THE ARCHITECTURAL PLANS, ELEVATIONS, AND DIAGRAMS FOR LOCATIONS OF THE FLOOR AND WALL DEVICES. IF DEVICES ARE NOT NOTED OTHERWISE THEY SHALL BE MOUNTED LONG AXIS VERTICAL AT THE FOLLOWING HEIGHTS AFF TO CENTER OF DEVICE: SWITCHES +42", RECEPTACLES +18", VOICE/DATA JACKS +18".
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY NEW ELECTRICAL SERVICE INSTALLATION OR MODIFICATIONS TO THE EXISTING ELECTRICAL SERVICE WITH THE LOCAL UTILITY COMPANY PRIOR TO STARTING ANY WORK.
4. COORDINATE ALL EQUIPMENT LOCATIONS WITH THE OWNER PRIOR TO ROUGH-IN. COORDINATE THE WIRING DEVICE LOCATIONS WITH THE ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, AND EQUIPMENT INSTALLATION DRAWINGS. COORDINATE THE LOCATION OF THE MECHANICAL EQUIPMENT WITH THE MECHANICAL PLANS AND THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE THE LOCATION OF THE LUMINAIRES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
5. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
6. ALL 120V BRANCH CIRCUITS SHALL BE 3-WIRE (PHASE,NEUTRAL,GROUND). PHASE, NEUTRAL, AND GROUND CONDUCTORS SHALL BE SIZE 12 AWG UNLESS OTHERWISE NOTED. BRANCH CIRCUITS SHOWN AS A SINGLE HOMERUN SHALL NOT BE COMBINED WITH OTHER CIRCUITS. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE EQUIPMENT GROUNDING CONDUCTORS INSTALLED IN THE RACEWAY.
7. TRANSFORMERS INDICATED TO BE SUSPENDED FROM THE STRUCTURE SHALL BE SUPPORTED BY A UNISTRUT FRAME THAT IS ATTACHED TO THE STRUCTURE.
8. PROVIDE (1) 1"C WITH BUSHING AND PULL STRING FROM EACH TELEPHONE, DATA, COMMUNICATION, AND THERMOSTAT OUTLET TO ABOVE THE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.
9. THE CONTRACTOR SHALL MAINTAIN FIRE-RATINGS FOR ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
10. COORDINATE THE LOCATIONS AND CONTROLS OF ALL APPLICABLE FIRE/SMOKE DAMPERS WITH THE MECHANICAL CONTRACTOR, PRIOR TO CONSTRUCTION.
11. ALL MOUNTING OF ELECTRICAL DEVICES (LUMINAIRES, TRANSFORMERS, PANELS, OUTLETS, CONDUIT RUNS, ETC.) SHALL COMPLY WITH STATE AND LOCAL SEISMIC REQUIREMENTS. ALL LUMINAIRES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SUPPORT HANGERS IN COMPLIANCE WITH IBC AND NEC REQUIREMENTS.
12. ADA COMPLIANCE: ELECTRICAL DEVICES PROJECTING FROM THE WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" AFF SHALL PROTRUDE NO MORE THAN 4" INTO WALKWAYS OR CORRIDORS.
13. BACK TO BACK MOUNTING OF RECEPTACLES OR COMMUNICATION OUTLETS IS NOT PERMITTED. THE MINIMUM SEPARATION BETWEEN DEVICES SHALL BE 6" O.C. IN COMMON WALLS AND 24" O.C. IN SOUND-RATED WALLS.
14. GFCI DEVICES SHALL BE PROVIDED AS NOTED AND SHALL COMPLY WITH NEC AND LOCAL REQUIREMENTS. NO FEED-THRU GFCI PROTECTION SHALL BE PERMITTED FOR DOWNSTREAM DEVICES. GFCI DUPLEX RECEPTACLES SHALL BE UL 943 2006 "LOCK-OUT" ACTION OR "NOTIFICATION" COMPLIANT.
15. ALL RECEPTACLES IN BREAK ROOMS SHALL BE GFCI PROTECTED. PROVIDE REMOTE BLANK FACE GFCI DEVICE IN AN ACCESSIBLE LOCATION AS REQUIRED FOR INACCESSIBLE RECEPTACLES. VERIFY EXACT REMOTE BLANK FACE GFCI DEVICE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
16. SWITCHES CONTROLLING LIGHTING LOADS: WHERE SWITCHES CONTROL LIGHTING LOADS SUPPLIED BY A GROUNDED GENERAL PURPOSE BRANCH CIRCUIT, THE GROUNDED CIRCUIT CONDUCTOR (NEUTRAL WIRE) FOR THE CONTROLLED LIGHTING CIRCUIT SHALL BE PROVIDED AT THE SWITCH LOCATION. EXISTING SWITCHES IN REMODELED SPACES SHALL NOT BE EXEMPT FROM THIS REQUIREMENT.
17. WHERE DIMMING CONTROL IS SPECIFIED AS A PORTION OF A CIRCUIT THAT ALSO HAS SWITCHED LIGHTING IN ADJACENT SPACES, PROVIDE A SEPARATE, DEDICATED NEUTRAL WIRE FROM THE DIMMING DEVICE BACK TO THE ORIGINATING PANEL.
18. IN REMODEL AREAS WHERE OCCUPANCY SENSING DEVICES ARE SPECIFIED AND ARE REPLACING EXISTING MANUAL SNAP SWITCH CONTROL OF THE LIGHTING, PROVIDE A NEUTRAL CONDUCTOR FROM THE LIGHTING CIRCUIT BEING CONTROLLED TO THE OCCUPANCY SENSING DEVICE (OR SWITCH/POWER PACK, WHERE LOW VOLTAGE SENSORS ARE SPECIFIED). FOR BIDDING PURPOSES, ASSUME THAT THE EXISTING SNAP SWITCHES ARE WIRED WITHOUT A NEUTRAL CONDUCTOR, AND A NEW NEUTRAL CONDUCTOR WILL BE REQUIRED.
19. LUMINAIRES SHOWN HALF SHADED SHALL BE CONNECTED TO THE LIFE SAFETY CIRCUIT OR CONTAIN AN EMERGENCY BATTERY PACK. FOR BATTERY PACK FIXTURES THAT DO NOT CONTAIN AN INTERNAL ILLUMINATED LED (AS STATED IN THE SPECIFICATIONS OR LUMINAIRE SCHEDULE), PROVIDE A VISIBLE RED DOT FOR QUICK IDENTIFICATION OF THE FIXTURE.
20. COORDINATE THE INSTALLATION OF COMMUNICATIONS CABLING, ROUTING, MOUNTING BOXES, AND TERMINATIONS WITH THE OWNER OR IT MANAGER, PRIOR TO CONSTRUCTION.
21. ALL LOW VOLTAGE AND SYSTEMS CABLING LOCATED ABOVE THE ACCESSIBLE CEILING SHALL BE PROPERLY RATED FOR THE APPLICATION. WITHOUT EXCEPTION, ALL CABLING SHALL BE HUNG FROM BRIDLE-TYPE RINGS OR PLACED IN CABLE TRAYS BY THE ELECTRICAL CONTRACTOR. IN EXPOSED CEILING AREAS, ALL CABLING SHALL BE RUN IN CONDUIT TO THE NEAREST ACCESSIBLE CEILING LOCATION.
22. THE INFORMATION ON THESE DRAWINGS HAS BEEN ASCERTAINED FROM EXISTING DRAWINGS AND FIELD OBSERVATIONS. THIS INFORMATION IS AS ACCURATE AS CONDITIONS WOULD ALLOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE, PRIOR TO BID, AND BECOME FAMILIAR WITH THE EXTENT OF THE WORK REQUIRED. NO EXTRAS WILL BE ALLOWED FOR ALTERATIONS OF A FORESEEABLE NATURE THAT ARE REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS.
23. ON DEMOLITION PLANS: ALL ITEMS SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. ALL ITEMS SHOWN IN HEAVY LINE WEIGHT SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
24. ON NEW FLOOR PLANS: ALL ITEMS SHOWN IN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. ALL ITEMS SHOWN IN HEAVY LINE WEIGHT ARE NEW OR RELOCATED AS NOTED.
25. THE NEW WIRING REQUIRED IN REMODELED AREAS SHALL BE FISHED THROUGH EXISTING WALLS OR CONCEALED IN NEW WALLS OR ABOVE CEILINGS. SURFACE MOUNTED CONDUIT SHALL NOT BE USED IN ANY FINISHED AREAS. CONTRACTOR SHALL NOT ROUTE ANY CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS NOTED TO DO SO.
26. ITEMS THAT ARE SHOWN TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ASSOCIATED CONDUIT, WIRE, AND HANGERS BACK TO THE POINT OF ORIGIN OR THE NEAREST EXISTING ITEM THAT IS REMAINING, UNLESS NOTED OTHERWISE. WHERE EXISTING DEVICES, SWITCHES, MOTOR CONNECTIONS, ETC. ARE TO BE REMOVED FROM WALLS WHICH ARE REMAINING, WALLS SHALL BE PATCHED TO MATCH ORIGINAL FINISH, AFTER CONDUCTORS HAVE BEEN REMOVED. BLANK COVERPLATES OVER EXISTING BOXES ARE NOT ACCEPTABLE. IF EXISTING CONDUITS ARE ROUTED IN CONCRETE FLOOR SLABS, WALLS OR CEILINGS, THEY SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH FLUSH WITH CONCRETE SURFACE AFTER CONDUCTORS HAVE BEEN REMOVED.
27. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING ITEMS THAT ARE REMAINING OR BEING RELOCATED.
28. ELECTRICAL DEVICE IDENTIFICATION LABELS: PROVIDE ADHESIVE FILM LABEL, MACHINE PRINTED, IN BLACK, BY THERMAL TRANSFER OR EQUIVALENT PROCESS WITH MINIMUM LETTER HEIGHT OF 3/8" ON ALL ELECTRICAL DEVICES. LABEL SHALL IDENTIFY ORIGINATING PANEL AND CIRCUIT NUMBER IN THE FOLLOWING FORMAT: PANEL-CKT. REFERENCE SPECIFICATIONS FOR ADDITIONAL LABELING REQUIREMENTS. WHERE THE PROJECT SPECIFICATIONS INDICATE MORE STRINGENT LABELING REQUIREMENTS, THOSE REQUIREMENTS SHALL TAKE PRECEDENCE.
29. PROVIDE TYPED UPDATED PANEL DIRECTORIES FOR EXISTING PANELS AFFECTED BY REMODEL WORK. PROVIDE NEW CIRCUIT BREAKER NUMBER IDENTIFICATION AS REQUIRED.
30. FLAG NOTES SHOWN ON DRAWINGS ARE BASED ON AN ABSOLUTE NUMBERING SYSTEM AND ARE NOT NECESSARILY NUMBERED SEQUENTIALLY.

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

ELECTRICAL COVER SHEET

NO: ISSUED FOR: DATE:

PROJECT STATUS: 50% CD

DRAWN BY: EMB CHECKED BY: MRZ

DATE: 11/13/2018 SHEET NO: E000

PROJECT NO: 1727

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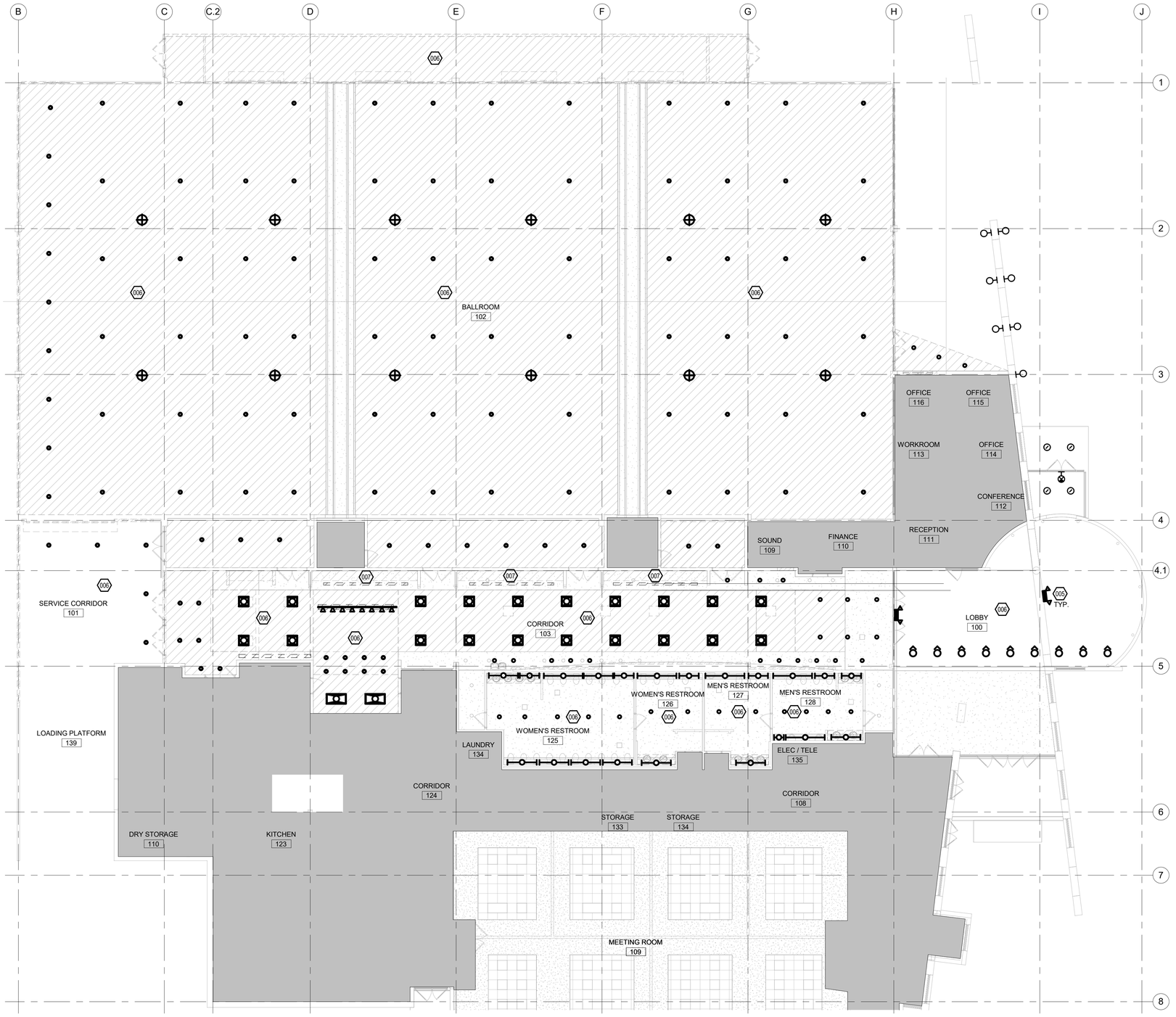

1 MAIN LEVEL LIGHTING DEMO PLAN

SCALE: 3/32" = 1'-0"

NORTH

FLAG NOTES (THIS SHEET)

005 REMOVE ALL EMERGENCY LIGHTING UNITS WITHIN SCOPE OF WORK. NEW LIGHTING WILL HAVE INTEGRAL BATTERY PACKS FOR EGRESS LIGHTING.

006 REMOVE ALL LIGHTS WITHIN THIS AREA. REMOVE ALL ASSOCIATED ELECTRICAL BACK TO NEAREST DEVICE.

007 REMOVE ALL LIGHTING ASSOCIATED WITH DISPLAY CASES. DEMOLISH CIRCUIT BACK TO NEAREST DEVICE.

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GRAND JUNCTION, COLORADO

FIRST FLOOR LIGHTING DEMO PLAN

NO:	ISSUED FOR:	DATE:

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DATE: 11/13/2018 SHEET NO: E022

PROJECT NO: 1727

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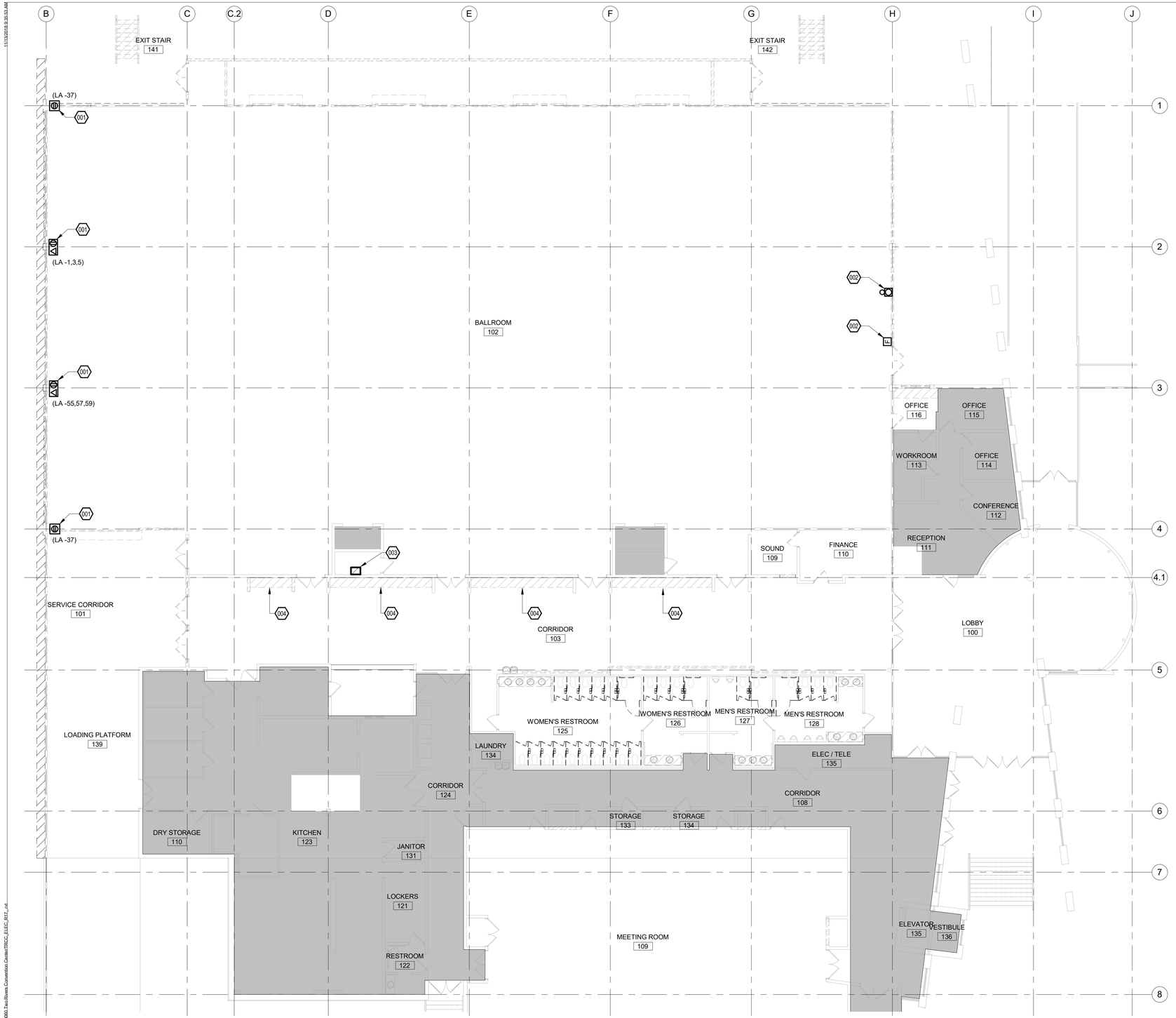

1 MAIN LEVEL ELECTRICAL DEMO PLAN

SCALE: 3/32" = 1'-0"

NORTH

FLAG NOTES (THIS SHEET)

001 REMOVE EXISTING FLOOR BOX. DEMOLISH CIRCUIT BACK TO NEAREST DEVICE. MAINTAIN CIRCUIT CONTINUITY OF EXISTING DEVICES TO REMAIN. PATCH AND SEAL FLOOR.

002 PROTECT EXISTING FIRE ALARM DEVICE FOR RELOCATION. REFER TO MAIN LEVEL POWER AND SYSTEMS PLAN FOR MORE INFORMATION.

003 FORKLIFT BATTERY CHARGER TO BE RELOCATED. SAVE FEEDER FOR REUSE. SEE NEW POWER PLAN FOR NEW LOCATION. COORDINATE DOWNTIME WITH BUILDING REPRESENTATIVE PRIOR TO STARTING WORK. REFER TO SHEET E-202 FOR NEW LOCATION.

004 REMOVE ALL ELECTRICAL DEVICES ASSOCIATED WITH DISPLAY CASES. DEMOLISH CIRCUIT BACK TO NEAREST DEVICE.

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FIRST FLOOR ELECTRICAL DEMO PLAN

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DATE: 11/13/2018 SHEET NO: E023

PROJECT NO: 1727

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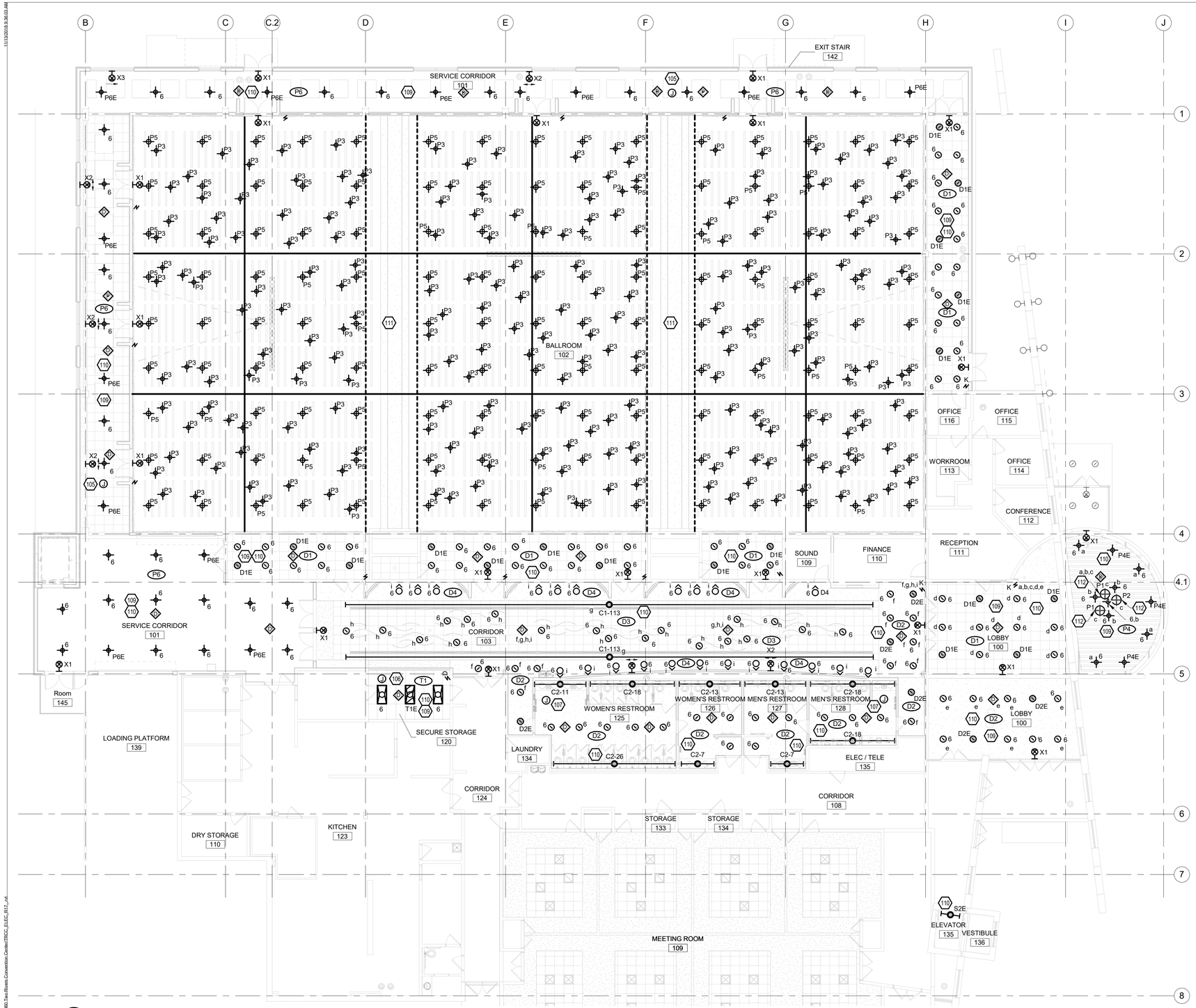

1 MAIN LEVEL LIGHTING PLAN
SCALE: 3/32" = 1'-0"

NORTH

GENERAL NOTES (LIGHTING)

A. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITY OF HVAC AND PLUMBING EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

B. CONTROL ZONE DESIGNATION LETTERS ARE FOR THIS FLOOR ONLY.

FLAG NOTES (THIS SHEET)

105 PROVIDE 120V POWER CONNECTION IN 4" SQUARE J-BOX TO DLM ROOM CONTROLLER, 1-ZONE, DIMMING.

106 PROVIDE 120V POWER CONNECTION IN 4" SQUARE J-BOX TO DLM ROOM CONTROLLER, 1-ZONE, DIMMING, COMPACT 10A.

107 PROVIDE 120V POWER CONNECTION IN 4" SQUARE J-BOX TO LIGHTING POWER PACK.

109 CONNECT LIGHTS WITHIN THIS ROOM TO PANEL HC, UNLESS NOTED OTHERWISE.

110 CONNECT ALL EMERGENCY LIGHTS AND EXIT SIGNS WITHIN THIS ROOM TO CIRCUIT EHA-2.

111 LIGHTING CONTROLS SHALL DIVIDE EACH THIRD OF THE BALLROOM INTO SEXTANTS.

112 CONNECT LIGHTS TO CIRCUIT LC-B - __.

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FIRST FLOOR LIGHTING PLAN

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DATE: 11/13/2018 SHEET NO: E102

PROJECT NO: 1727

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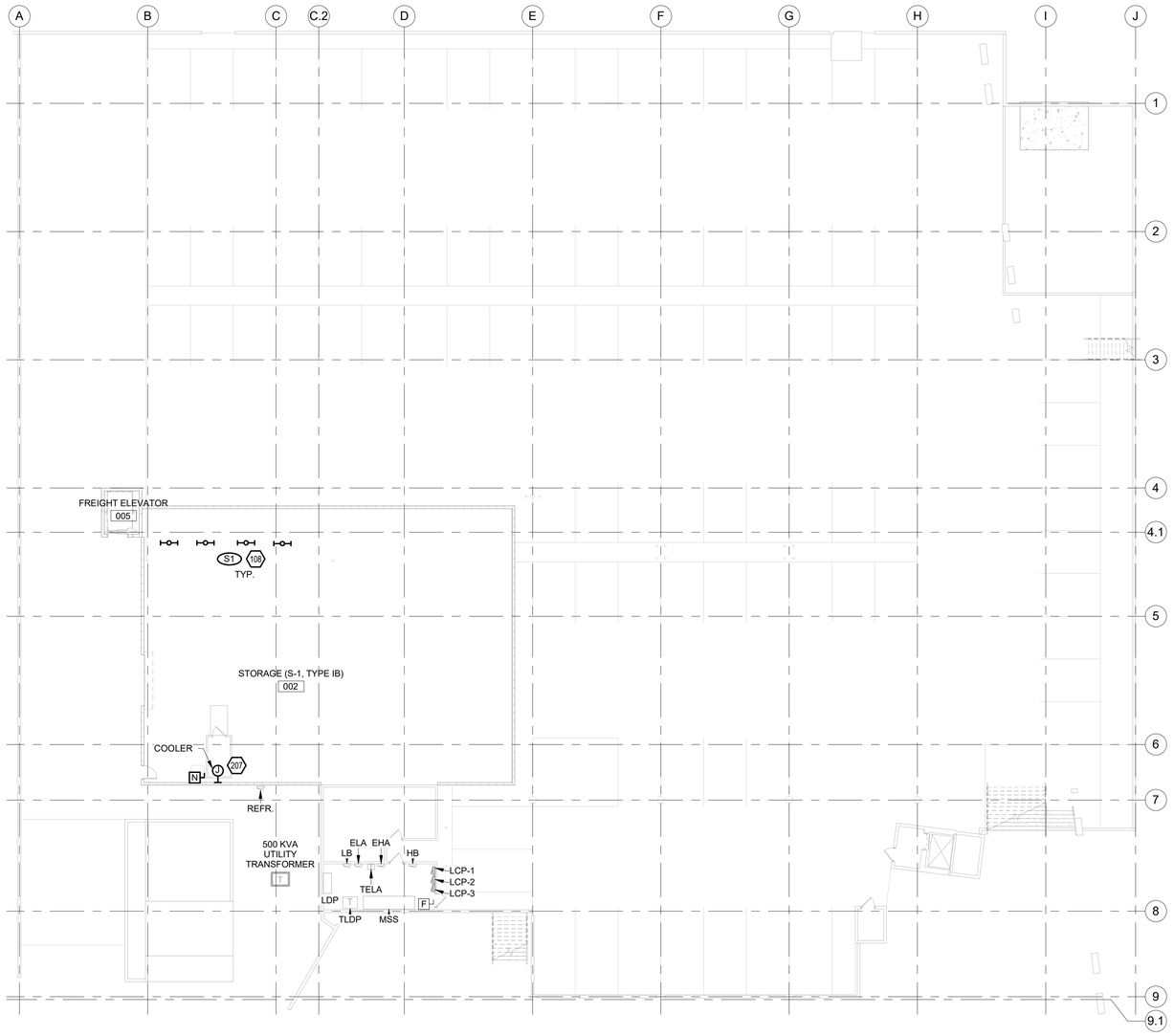

NORTH

1 PARKING LEVEL ELECTRICAL PLAN

SCALE: 1/16" = 1'-0"

FLAG NOTES (THIS SHEET)

108 REMOVE (4) EXISTING 2X4S LOCATED IN STORAGE ROOM ON PARKING LEVEL. REPLACE WITH (4) 4' LINEAR STRIP FIXTURES THAT MATCH THE EXISTING STRIP FIXTURE ALREADY IN THE ROOM. SEE LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION. RECONNECT NEW LOAD TO EXISTING CIRCUIT SERVING DEMOLISHED LIGHTS. NEW LOAD ADDED IS LESS THAN EXISTING LOAD. PROVIDE NEW LED LAMPS THAT MATCH EXISTING COLOR TEMPERATURE AND CRI VALUE.

207 RECONNECT POWER TO EXISTING COOLER.

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

PARKING LEVEL ELECTRICAL PLAN

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PROJECT STATUS: 50%
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PROJECT NO: 1727

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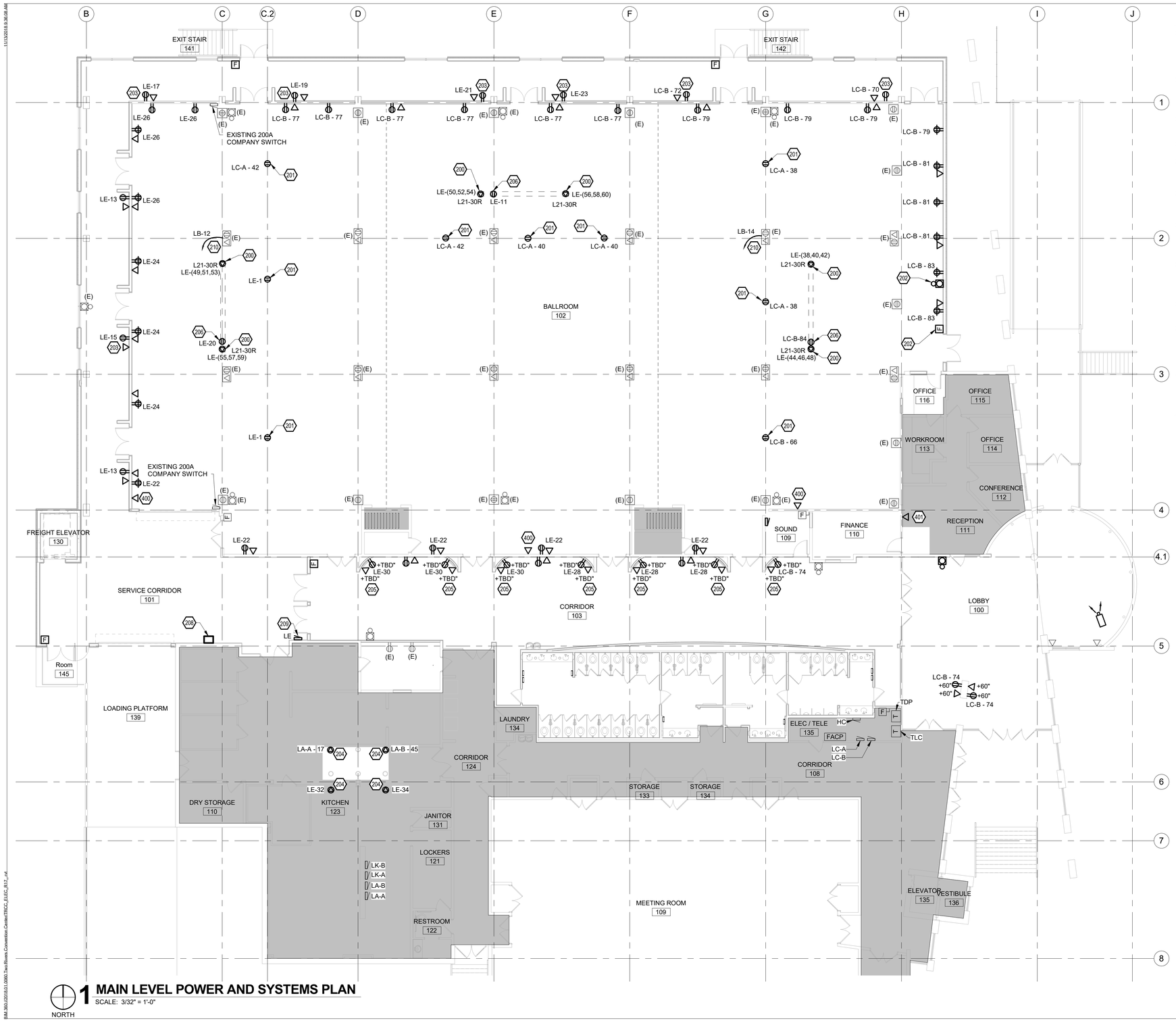

1 MAIN LEVEL POWER AND SYSTEMS PLAN

SCALE: 3/32" = 1'-0"

FLAG NOTES (THIS SHEET)

200 PROVIDE NEMA L21-30, 30 AMP, 208 V, 3-PHASE, 4-WIRE, TWIST-LOCK RECEPTACLE FOR LIGHTING TRUSS, SECURED TO STRUCTURE AND MOUNTED FLUSH WITH CEILING. COORDINATE LOCATION WITH BUILIDNG REPRESENTATIVE PRIOR TO ROUGH-IN.

201 PROVIDE CEILING-MOUNTED RECEPTACLE FOR PROJECTOR, SECURED TO STRUCTURE AND MOUNTED FLUSH WITH CEILING. COORDINATE LOCATION WITH BUILDING REPRESENTATIVE AND AV CONTRACTOR PRIOR TO ROUGH-IN.

202 NEW LOCATION OF RELOCATED FIRE ALARM DEVICE. REFER TO FIRST FLOOR ELECTRICAL DEMO PLAN.

203 PROVIDE DEDICATED 120V OUTLET FOR HOT BOX.

204 PROVIDE AND INSTALL 15A RETRACTABLE CEILING-MOUNTED CORD REEL. PROVIDE RECEPTACLE WITH NEC REQUIRED MANUFACTURER MARKED DEVICES.

205 PROVIDE 120V POWER AND DATA OUTLET MOUNTED AT +TBD" AFF FOR A VERTICAL MONITOR, VERIFY EXACT LOCATION WITH BUILDING REPRESENTATIVE PRIOR TO ROUGH-IN.

206 PROVIDE POWER OUTLET FOR A MOTORIZED HOIST AND DMX CABLING WITH EXTRA CABLE TO EXTEND TO THE FLOOR. COORDINATE LOCATION WITH BUILDING REPRESENTATIVE AND AV CONTRACTOR PRIOR TO ROUGH-IN.

208 NEW LOCATION OF FORKLIFT BATTERY CHARGER. PROVIDE JUNCTION BOX AND EXTEND CIRCUITING AS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY. COORDINATE DOWNTIME WITH BUILDING REPRESENTATIVE PRIOR TO STARTING WORK.

209 PROVIDE NEW 120/208V, 3P, 250A MCB PANEL. MAINTAIN NEC 110.26 FOR CLEARANCES.

210 QUAD OUTLET WITHIN FLOOR BOX SHALL BE SPLIT INTO TWO CIRCUITS. PROVIDE NEW 120V, 20A CIRCUIT FROM PANEL LB WITHIN PARKING GARAGE. PROVIDE NEW CORE DRILL FOR NEW CIRCUIT AND MAINTAIN EXISTING CIRCUITRY FOR EXISTING CIRCUIT.

400 POE TOUCH PAD LIGHTING CONTROL INTERFACE ON THE WALL, +48" AFF 4" SQUARE BACK BOX, ROUTE (1) 1" CONDUIT TO NEAREST ACCESIBLE CEILING. VERIFY EXACT LOCATION WITH BUILDING REPRESENTATIVE PRIOR TO ROUGH IN.

401 POE 7" TOUCH PAD LIGHTING CONTROL INTERFACE ON THE WALL, +48" AFF. INSTALL A STANDARD INSTALLATION KIT PROVIDE BY OTHERS, ROUTE (1) 1" CONDUIT TO NEAREST ACCESIBLE CEILING. VERIFY EXACT LOCATION WITH BUILDING REPRESENTATIVE PRIOR TO ROUGH IN.

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GRAND JUNCTION, COLORADO

FIRST FLOOR POWER AND SYSTEMS PLAN

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PROJECT NO: 1727

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B C C.2 D E F G H I J

1 2 3 4 4.1 5 6 7 8

LD
TLD
HM1
HM
MDP

NORTH

1 ROOF POWER PLAN
SCALE: 3/32" = 1'-0"

FLAG NOTES (THIS SHEET)

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ROOF POWER PLAN

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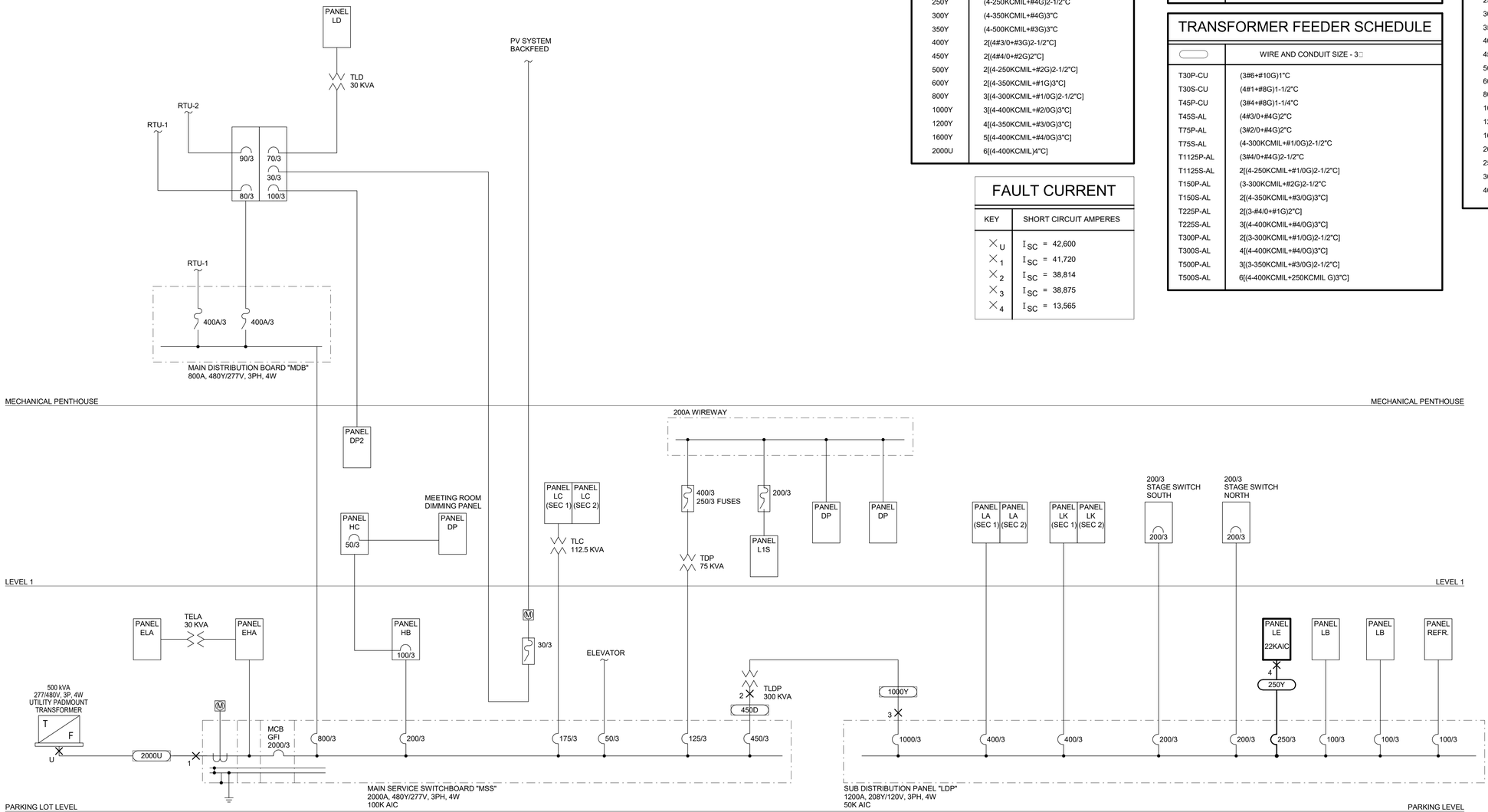

ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

NOTE: ALL ITEMS ARE EXISTING UNLESS OTHERWISE NOTED.

FEEDER SCHEDULE

	WIRE AND CONDUIT SIZE - 3□, 4W
30Y	(4#10+#10G)3/4"C
35Y	(4#8+#10G)1"C
40Y	(4#8+#10G)1"C
45Y	(4#6+#10G)1"C
50Y	(4#6+#10G)1"C
60Y	(4#4+#10G)1-1/4"C
70Y	(4#4+#8G)1-1/4"C
80Y	(4#3+#8G)1-1/4"C
90Y	(4#2+#8G)1-1/4"C
100Y	(4#1+#8G)1-1/2"C
110Y	(4#1+#6G)1-1/2"C
125Y	(4#1+#6G)1-1/2"C
150Y	(4#1/0+#6G)2"C
175Y	(4#2/0+#6G)2"C
200Y	(4#3/0+#6G)2"C
225Y	(4#4/0+#4G)2-1/2"C
250Y	(4-250KCMIL+#4G)2-1/2"C
300Y	(4-350KCMIL+#4G)3"C
350Y	(4-500KCMIL+#3G)3"C
400Y	2[(4#3/0+#3G)2-1/2"C]
450Y	2[(4#4/0+#2G)2"C]
500Y	2[(4-250KCMIL+#2G)2-1/2"C]
600Y	2[(4-350KCMIL+#1G)3"C]
800Y	3[(4-300KCMIL+#1/0G)2-1/2"C]
1000Y	3[(4-400KCMIL+#2/0G)3"C]
1200Y	4[(4-350KCMIL+#3/0G)3"C]
1600Y	5[(4-400KCMIL+#4/0G)3"C]
2000U	6[(4-400KCMIL)4"C]

FAULT CURRENT

KEY	SHORT CIRCUIT AMPERES
U	I_{SC} = 42,600
1	I_{SC} = 41,720
2	I_{SC} = 38,814
3	I_{SC} = 38,875
4	I_{SC} = 13,565

TRANSFORMER FEEDER SCHEDULE

	WIRE AND CONDUIT SIZE - 3□
T30P	(3#6+#10G)1"C
T30S	(4#1+#6G)1-1/2"C
T45P	(3#4+#8G)1-1/4"C
T45S	(4#1/0+#6G)2"C
T75P	(3#1+#6G)1-1/2"C
T75S	(4#4/0+#2G)2-1/2"C
T1125P	(3#2/0+#6G)2"C
T1125S	2[(4#3/0+#1/0G)2"C]
T150P	(3#4/0+#4G)2"C
T150S	2[(4-250KCMIL+#1/0G)2-1/2"C]
T225P	(3-500KCMIL+#3G)3"C
T225S	3[(4-300KCMIL+#2/0G)2-1/2"C]
T300P	2[(3#4/0+#2G)2"C]
T300S	3[(4-400KCMIL+#3/0G)3"C]
T500P	2[(3-500KCMIL+#1/0G)3"C]
T500S	5[(4-400KCMIL+250KCMIL G)3"C]

TRANSFORMER FEEDER SCHEDULE

	WIRE AND CONDUIT SIZE - 3□
T30P-CU	(3#6+#10G)1"C
T30S-CU	(4#1+#8G)1-1/2"C
T45P-CU	(3#4+#8G)1-1/4"C
T45S-AL	(4#3/0+#4G)2"C
T75P-AL	(3#2/0+#4G)2"C
T75S-AL	(4-300KCMIL+#1/0G)2-1/2"C
T1125P-AL	(3#4/0+#4G)2-1/2"C
T1125S-AL	2[(4-250KCMIL+#1/0G)2-1/2"C]
T150P-AL	(3-300KCMIL+#2G)2-1/2"C
T150S-AL	2[(4-350KCMIL+#3/0G)3"C]
T225P-AL	2[(3-#4/0+#1G)2"C]
T225S-AL	3[(4-400KCMIL+#4/0G)3"C]
T300P-AL	2[(3-300KCMIL+#1/0G)2-1/2"C]
T300S-AL	4[(4-400KCMIL+#4/0G)3"C]
T500P-AL	3[(3-350KCMIL+#3/0G)2-1/2"C]
T500S-AL	6[(4-400KCMIL+250KCMIL G)3"C]

FEEDER SCHEDULE

	WIRE AND CONDUIT SIZE - 3□, 3W
30D	(3#10+#10G)3/4"C
35D	(3#[illegible]
40D	(3#[illegible]
45D	(3#[illegible]
50D	(3#6+#10G)1"C
60D	(3#[illegible]
70D	(3#[illegible]
80D	(3#[illegible]
90D	(3#2+#8G)1-1/4"C
100D	(3#[illegible]
110D	(3#[illegible]
125D	(3#[illegible]
150D	(3#[illegible]
175D	(3#[illegible]
200D	(3#[illegible]
225D	(3#[illegible]
250D	(3-250KCMIL+#4G)2-1/2"C
300D	(3-350KCMIL+#4G)2-1/2"C
350D	(3-500KCMIL+#3G)3"C
400D	2[(3#3/0+#3G)2"C]
450D	2[(3#4/0+#2G)2"C]
500D	2[(3-250KCMIL+#2G)2-1/2"C]
600D	2[(3-350KCMIL+#1G)2-1/2"C]
800D	3[(3-300KCMIL+#1/0G)2-1/2"C]
1000D	3[(3-400KCMIL+#2/0G)2-1/2"C]
1200D	4[(3-350KCMIL+#3/0G)3"C]
1600D	5[(3-400KCMIL+#4/0G)3"C]
2000D	6[(3-400KCMIL+250KCMIL G)3"C]
2500D	7[(3-500KCMIL+350KCMIL G)3"C]
3000D	8[(3-500KCMIL+400KCMIL G)3"C]
4000D	11[(3-500KCMIL+500KCMIL G)3-1/2"C]

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

ELECTRICAL ONE-LINE DIAGRAM

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PROJECT STATUS: 50%
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DATE: 11/13/2018

SHEET NO: E400

PROJECT NO: 1727

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COMcheck Software Version 4.1.0.0
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: TWO RIVERS CONVENTION CENTER
Project Type: Alteration

Construction Site:
159 MAIN STREET
GRAND JUNCTION, CO 81501

Owner/Agent:
PATRICK HUMMEL
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Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-STORAGE 129 (Common Space Types:Storage >=1000 sq.ft.): Exempt			
2-LOBBY 100 (Common Space Types:Lobby - General)	1662	0.90	1496
3-CORRIDOR 103 (Common Space Types:Corridor/Transition >=8 ft wide)	2531	0.66	1670
4-RR 125-128 (Common Space Types:Restrooms)	1206	0.98	1182
5-SERVICE CORR 101 (Common Space Types:Corridor/Transition >=8 ft wide)	3821	0.66	2522
6-BALLROOM 102 (Convention Center:Exhibit Space)	15415	1.45	22352
7-SECURED STORAGE 120 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	174	0.63	110
		Total Allowed Watts =	29331

Area Category Exemption Qualifications

Activity Area	# Fixtures Pre-Alt.	# Fixtures Repl./Added	Total # Watts Pre-Alt.	Total # Watts Post-Alt.
STORAGE 129 (Common Space Types:Storage >=1000 sq.ft. 3814 sq.ft.)	16	4	1024.000	1024.000
Exemption: Less than 50% fixture replacement.				

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
STORAGE 129 (Common Space Types:Storage >=1000 sq.ft. 3814 sq.ft.): Exempt				
LOBBY 100 (Common Space Types:Lobby - General 1662 sq.ft.)				
LED 1: D1: DOWNLIGHT: Other:	1	12	20	240
LED 2: D2: DOWNLIGHT: Other:	1	10	16	160
LED 3: P1: PENDANT: Other:	1	2	10	20
LED 4: P2: PENDANT: Other:	1	1	10	10
LED 5: P4: PENDANT: Other:	1	11	16	176
CORRIDOR 103 (Common Space Types:Corridor/Transition >=8 ft wide 2531 sq.ft.)				
LED 8: C1: COVE: Other:	1	1	1506	1506

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 6: D2: DOWNLIGHT: Other:	1	15	16	240
LED 7: D3: DOWNLIGHT: Other:	1	19	20	380
LED 9: D4: WALL WASH: Other:	1	22	21	462
RR 125-128 (Common Space Types:Restrooms 1206 sq.ft.)				
LED 10: C2: COVE: Other:	1	1	874	874
LED 11: D2: DOWNLIGHT: Other:	1	14	16	224
SERVICE CORR 101 (Common Space Types:Corridor/Transition >=8 ft wide 3821 sq.ft.)				
LED 12: P6: PENDANT: Other:	1	40	36	1440
BALLROOM 102 (Convention Center:Exhibit Space 15415 sq.ft.)				
LED 15: D1: DOWNLIGHT: Other:	1	52	20	1040
LED 13: P3: PENDANT: Other:	1	203	14	2842
LED 14: P5: PENDANT: Other:	1	135	43	5805
SECURED STORAGE 120 (Common Space Types:Storage >=50 - <=1000 sq.ft. 174 sq.ft.)				
LED 16: T1: 2X4: Other:	1	3	33	99
			Total Proposed Watts =	15518

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version 4.1.0.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ELIZABETH BOTKIN
Name - Title

Signature

NOVEMBER 12, 2018
Date

COMcheck Software Version 4.1.0.0
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided *should* include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E102
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E102
C405.2.1, C405.2.2.3 [EL23][1]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E102
C405.2.2.1 [EL22][1]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E102
C405.2.3 [EL16][1]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E102
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** N/A
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply. **Location on plans/spec:** N/A
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E102
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E600

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.2.5.1 [FI16][1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

ELECTRICAL COMCHECK

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
CD

DRAWN BY: EMB CHECKED BY: MRZ

DATE: **11/13/2018** SHEET NO:

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11/13/2018 8:36:37 AM

LUMINAIRE SCHEDULE

TYPE	LOCATION	SOURCE TYPE	SOURCE LUMENS	SOURCE CCT	SOURCE CRI	DESCRIPTION	INPUT LOAD (VA)	INPUT VOLTAGE (V)	DIM TYPE	MOUNTING	MANUFACTURER AND CATALOG NUMBER	KEY NOTES
C1-113	CORRIDOR	LED	64184	3500 K	80+	EDGELESS COVE, STRAIGHT RUN, MID-POWER LED, WITH SNAP-ON SATIN DIFFUSER	753	UNV	0-10V 10%	WALL	INTERLUX, WG-EC SERIES	2,3
C2-7	RESTROOM	LED	3640	3500 K	80+	PERIMETER COVE, STRAIGHT RUN, MID-POWER LED WITH SATIN FLAT DIFFUSER, DAMP LOCATION RATED	47	UNV	0-10V 10%	WALL	INTERLUX, WG-VBC SERIES	2,3
C2-11	RESTROOM	LED	5720	3500 K	80+	PERIMETER COVE, STRAIGHT RUN, MID-POWER LED WITH SATIN FLAT DIFFUSER, DAMP LOCATION RATED	73	UNV	0-10V 10%	WALL	INTERLUX, WG-VBC SERIES	2,3
C2-13	RESTROOM	LED	6760	3500 K	80+	PERIMETER COVE, STRAIGHT RUN, MID-POWER LED WITH SATIN FLAT DIFFUSER, DAMP LOCATION RATED	87	UNV	0-10V 10%	WALL	INTERLUX, WG-VBC SERIES	2,3
C2-18	RESTROOM	LED	9360	3500 K	80+	PERIMETER COVE, STRAIGHT RUN, MID-POWER LED WITH SATIN FLAT DIFFUSER, DAMP LOCATION RATED	120	UNV	0-10V 10%	WALL	INTERLUX, WG-VBC SERIES	2,3
C2-26	RESTROOM	LED	13520	3500 K	80+	PERIMETER COVE, STRAIGHT RUN, MID-POWER LED WITH SATIN FLAT DIFFUSER, DAMP LOCATION RATED	173	UNV	0-10V 10%	WALL	INTERLUX, WG-VBC SERIES	2,3
D1	EXISTING DRYWALL	LED	1400	3500 K	80+	6" REMODLER DOWNLIGHT WITH STANDARD SEMI-DIFFUSE CLEAR ALZAK REFLECTOR	20	UNV	0-10V 10%	RECESSED	PRESCOLITE, RLC6SL SERIES	
D1E	EXISTING DRYWALL	LED	1400	3500 K	80+	6" REMODLER DOWNLIGHT WITH STANDARD SEMI-DIFFUSE CLEAR ALZAK REFLECTOR CONNECTED TO EMERGENCY CIRCUIT	20	UNV	0-10V 10%	RECESSED	PRESCOLITE, RLC6SL SERIES	
D2	ENTRY AND WALKWAY	LED	1451	3500 K	80+	6" DOWNLIGHT WITH STANDARD REFLECTOR, SEMI-DIFFUSE REFLECTOR FINISH AND CLEARK ALZAK REFLECTOR COLOR	16	UNV	0-10V 10%	RECESSED	PRESCOLITE, LF6SL SERIES	4
D2E	ENTRY AND WALKWAY	LED	1451	3500 K	80+	6" DOWNLIGHT WITH STANDARD REFLECTOR, SEMI-DIFFUSE REFLECTOR FINISH AND CLEARK ALZAK REFLECTOR COLOR CONNECTED TO EMERGENCY CIRCUIT	16	UNV	0-10V 10%	RECESSED	PRESCOLITE, LF6SL SERIES	4
D3	CORRIDOR	LED	1400	3500 K	80+	6" DOWNLIGHT WITH STANDARD SEMI-DIFFUSE CLEAR ALZAK REFLECTOR FINISH	20	UNV	0-10V 10%	RECESSED	PRESCOLITE, LC6SL SERIES	
D4	CORRIDOR	LED	1200	3500 K	80+	2" ADJUSTABLE DOWNLIGHT WITH STANDARD SPECULAR REFLECTOR FINISH, CLEAR ALZAK REFLECTOR COLOR, AND STANDARD ANODIZED FLANGE	21	277V	0-10V 10%	RECESSED	PRESCOLITE, A2LED SERIES	5
P1	LOBBY	LED	800	3000 K		MEDIUM DECORATIVE PENDANT LED	10	120V	0-10V 10%	PENDANT	LIGHT-ART, CONTOUR FRENCH CURVE, MEDIUM	
P2	LOBBY	LED	800	3000 K		LARGE DECORATIVE PENDANT LED	10	120V	0-10V 10%	PENDANT	LIGHT-ART, CONTOUR FRENCH CURVE, LARGE	
P3	BALLROOM	LED	1260	3500 K	80+	DECORATIVE PENDANT ON 2" TRACK WITH 60" CLEAR CABLE AND BLACK TRACK ADAPTOR	14	120V	PHASE	TRACK	EUREKA, 4233-XB SERIES	6,7
P4	ENTRY	LED	1400	3500 K	80+	3.5" DIAMETER, 10" TALL PENDANT CYLINDER DOWNLIGHT WITH FLEXIBLE CABLE, FLOOD BEAM, AND MATTE BLACK	16	UNV	0-10V	PENDANT	CONTECH, CY3 SERIES	9
P4E	ENTRY	LED	1400	3500 K	80+	3.5" DIAMETER, 10" TALL PENDANT CYLINDER DOWNLIGHT WITH FLEXIBLE CABLE, FLOOD BEAM, AND MATTE BLACK CONNECTED TO EMERGENCY CIRCUIT	16	UNV	0-10V	PENDANT	CONTECH, CY3 SERIES	9
P5	BALLROOM	LED	6000	3500 K	80+	10" PENDANT CYLINDER DOWNLIGHT WITH 45 DEGREE CUTOFF, SPECULAR REFLECTOR FINISH, CLEAR ALZAK REFLECTOR, SOLITE LENS, IN MATTE BLACK	43	UNV	0-10V	PENDANT	PRESCOLITE, MC10LED SERIES	1
P6	PERIMETER WALKWAY	LED	2400	3500 K	80+	6" PENDANT CYLINDER DOWNLIGHT WITH VERTICAL TOP ONLY, 45 DEGREE CUTOFF, IN MATTE BLACK	36	UNV	0-10V 10%	CORD/CABLE	PRESCOLITE, LCC6LE SERIES	
P6E	PERIMETER WALKWAY	LED	2400	3500 K	80+	6" PENDANT CYLINDER DOWNLIGHT WITH VERTICAL TOP ONLY, 45 DEGREE CUTOFF, IN MATTE BLACK CONNECTED TO EMERGENCY CIRCUIT	36	UNV	0-10V 10%	CORD/CABLE	PRESCOLITE, LCC6LE SERIES	
S1	STORAGE - PARKING	FLUORESCENT	EXIST	3000 K	80	8' LINEAR STRIP FIXTURE, MATCH EXISTING	64	UNV	-	SURFACE	LITHONIA #C STRIP SERIES	8
S2E	ELEVATOR PIT	LED	5100	3500 K	80+	4; LINEAR STRIP WITH MEDIUM LUMEN OUTPUT, RIBBED CLEAR ACRYLIC SHIELDING, FIXED DRIVER OUTPUT, AND EMERGECNY BATTERY PACK	47	UNV	-	ELEV PIT	COLUMBIA LIGHTING #LXEM SERIES	
T1	SECURED STORAGE	LED	3500	3500 K	80+	2' X 4' ARCHITECTURAL TROFFER WITH MEDIUM LOW WATT LUMEN OUTPUT, CURVE SHIELDING, STATIC AIR FUNCTION	33	UNV	0-10V	RECESSED	COLUMBIA, LCAT24 SERIES	
T1E	SECURED STORAGE	LED	3500	3500 K	80+	2' X 4' ARCHITECTURAL TROFFER WITH MEDIUM LOW WATT LUMEN OUTPUT, CURVE SHIELDING, STATIC AIR FUNCTION CONNECTED TO EMERGENCY CIRCUIT	33	UNV	0-10V	RECESSED	COLUMBIA, LCAT24 SERIES	
X1	FIRST FLOOR	LED		3500 K		EXIT SIGN SINGLE FACE	3	UNV	-	WALL	DUAL-LITE, LE WALL MOUNT	
X2	FIRST FLOOR	LED		3500 K		EXIT SIGN SINGLE FACE DOUBLE ARROW	3	UNV	-	WALL	DUAL-LITE, LE WALL MOUNT	
X3	FIRST FLOOR	LED		3500 K		EXIT SIGN SINGLE FACE RIGHT ARROW	3	UNV	-	WALL	DUAL-LITE, LE WALL MOUNT	

1. MOUNTED FLUSH TO BOTTOM OF WOOD.
2 EC SHALL PROVIDE END CAPS AS NECESSARY FOR A COMPLETE INSTALLATION.
3 SEE LIGHTING PLAN FOR LENGTH OF FIXTURE.
4 PROVIDE STANDARD BRUSHED ALUMINUM FOUNDATION FLANGE WITH GLASS RING DISK OPTION.
5 COORDINATE LOCATION AND AIM OF FIXTURE WITH THE OWNER AND ARCHITECT PRIOR TO INSTALLATION.
6 STRUCTURE FINISH AND CANOPY FINISH BY ARCHITECT.
7 PROVIDE 24" BLACK TRACK AND BLACK END FEEDERS AND CANOPY.
8 PROVIDE WIRE GUARD TO MATCH EXISTING FIXTURES IN ROOM.
9 BASE OF FIXTURE SHALL BE IN LINE WITH BEAM OF CEILING. (BEAM CEILING IS AT AN ANGLE)

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

ELECTRICAL SCHEDULES

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
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DRAWN BY: EMB CHECKED BY: MRZ

DATE: **11/13/2018** SHEET NO:

PROJECT NO: **1727** **E600**

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LOAD SUMMARY MSS

EXISTING

FEEDER/PANEL

	ELEV	SPACE	MDB	SPACE	[1] PNL LC V/A 112.5KVA	[1] PNL LDP HB V/A 300KVA
LIGHTING						3.4
RECEPT. (FIRST 10 KW)					3.6	5.4
RECEPT. (REMAINDER)						
MOTORS						
LARGEST MOTOR						
APPLIANCES						
EQUIPMENT					7.6	64.5
HEATING						
EXISTING						
OTHER						

	CONNECTED KVA	D.F.	DEMAND KVA
LIGHTING	3.4	1.25	4.3
RECEPT. (FIRST 10 KW)	9.2	1.00	9.2
RECEPT. (REMAINDER)		0.50	
MOTORS		1.00	
LARGEST MOTOR		1.25	
APPLIANCES		1.00	
EQUIPMENT	72.1	1.00	72.1
HEATING		1.00	
EXISTING		1.25	
OTHER		1.00	

2000 AMP 277 / 480 VOLT 3 PHASE
100k AIC 4 WIRE SERVICE
2000 A MAIN CB 100% NEUTRAL BUS GROUND BUS

TOTAL CONNECTED LOAD	84.7 KVA =	101.9 AMPS
TOTAL DEMAND LOAD	85.5 KVA =	102.9 AMPS
TOTAL DESIGN CAPACITY	1662.8 KVA =	2000.0 AMPS
SPARE	1577.2 KVA =	1897.1 AMPS

NOTES: [1] NEW LOAD ADDED TO EXISTING PANEL. SEE PANEL SCHEDULE FOR MORE INFORMATION.

PANEL "HB"

EXISTING

250 AMP 277 / 480 VOLT 3 PHASE 4 WIRE SERVICE
AIC 250 MAIN LUGS ONLY 100% NEUTRAL BUS GROUND BUS SURFACE MOUNTED

DESCRIPTION	L	R	7|5|O M|A|E|H		PHASE			L	R	7|5|O M|A|E|H	DESCRIPTION
L-STORAGE				20 1	A	2 20					L-PARKING EM
L-PARKING				20 3	B	4 20					SPR
L-PARKING				20 5	C	6 20					SPR
L-PARKING				20 7	A	8 20					SPR
L-PARKING				20 9	B	10 20					SPR
L-PARKING				20 11	C	12 20					SPR
L-PARKING GYP				20 13	A	14 20					SPR
L-PARKING				20 15	B	16 20					SPR
TIME CLOCK				20 17	C	18 20					SPR
SPR				20 19	A	20 20					SPR
SPR				20 21	B	22 20					SPR
SPR				20 23	C	24 20					SPR
SPR				20 25	A	26 20					SPR
SPR				20 27	B	28 |				---
SPR				20 29	C	30 |				---
SPR				20 31	A	32 50					DISHWASHER
SPR				20 33	B	34 |				---
SPR				20 35	C	36 |				---
BOOSTER HEATER				40 37	A	38					SP
---				| 39	B	40					SP
---				| 41	C	42					SP
[1] PNL HC			S	100 43	A	44	N/A				N/A
---			S	| 45	B	46	N/A				N/A
---			S 3401	| 47	C	48	N/A				N/A

TOTAL			M A E	LOADS IN VOLT-AMPERES				M A E	TOTAL

	CONNECTED	D.F.	DEMAND		
LIGHTING	3.4	1.25	4.3	CONNECTED	3.4 KVA
RECEPT. (FIRST 10 KW)		1.00		DESIGN	207.8 KVA
RECEPT. (REMAINDER)		0.50		DEMAND	4.3 KVA
MOTORS		1.00		SPARE	203.6 KVA
LARGEST MOTOR		1.25		CONNECTED	
APPLIANCES		1.00		PHASE A	KVA
EQUIPMENT		1.00		PHASE B	KVA
HEATING		1.00		PHASE C	3.4 KVA
TRANSFORMER		1.00			
OTHER		1.00		A TO B	
				B TO C	
				C TO A	
TOTAL	3.4	KVA	4.3	KVA	ALL CIRCUIT BREAKERS
LOAD	4.1	AMPS	5.1	AMPS	ARE 20 AMP, 1 POLE
DESIGN			250.0	AMPS	UNLESS NOTED OTHERWISE
SPARE			244.9	AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES: [1] NEW LOAD ADDED TO EXISTING PANEL. SEE PANEL SCHEDULE FOR MORE INFORMATION.

PANEL "HC" [*]

EXISTING

250 AMP 277 / 480 VOLT 3 PHASE 4 WIRE SERVICE
AIC 125 MAIN LUGS ONLY 100% NEUTRAL BUS GROUND BUS SURFACE MOUNTED

DESCRIPTION	L	R	7|5|O M|A|E|H		PHASE			L	R	7|5|O M|A|E|H	DESCRIPTION
SPR				20 1	A	2 20					L-PLAZA POLE
SPR				20 3	B	4 20					L-WALL SIGN
L-KITCHEN				20 5	C	6 20		3401			L-BALL, LOBBY
L-CORR				20 7	A	8 20					SPR
L-BATH				20 9	B	10 20					L-OFFICE
L-CORR				20 11	C	12 20					L-EXH CORR
L-LOBBY				20 13	A	14 20					L-EXH CORR
L-LOBBY ATRIUM				20 15	B	16 20					L-EXH CORR
L-CORR				20 17	C	18 20					SPR
L-FACADE				20 19	A	20 20					SPR
L-FACADE				20 21	B	22 20					SPR
L-BOLLARD				20 23	C	24 20					SPR
DIMMER PANEL				50 25	A	26 20					SPR
---				| 27	B	28 20				SPR
---				| 29	C	30 20				SPR
SPR				20 31	A	32 20				SPR
SPR				20 33	B	34 20				SPR
SPR				20 35	C	36 20				SPR
SPR				20 37	A	38 20				SPR
SPR				20 39	B	40 20				SPR
SPR				20 41	C	42 20				SPR

TOTAL			M A E	LOADS IN VOLT-AMPERES				M A E	TOTAL
						3401			

	CONNECTED	D.F.	DEMAND		
LIGHTING	3.4	1.25	4.3	CONNECTED	3.4 KVA
RECEPT. (FIRST 10 KW)		1.00		DESIGN	83.1 KVA
RECEPT. (REMAINDER)		0.50		DEMAND	4.3 KVA
MOTORS		1.00		SPARE	78.9 KVA
LARGEST MOTOR		1.25		CONNECTED	
APPLIANCES		1.00		PHASE A	KVA
EQUIPMENT		1.00		PHASE B	KVA
HEATING		1.00		PHASE C	3.4 KVA
TRANSFORMER		1.00			
OTHER		1.00		A TO B	
				B TO C	
				C TO A	
TOTAL	3.4	KVA	4.3	KVA	ALL CIRCUIT BREAKERS
LOAD	4.1	AMPS	5.1	AMPS	ARE 20 AMP, 1 POLE
DESIGN			100.0	AMPS	UNLESS NOTED OTHERWISE
SPARE			94.9	AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES: [*] NEW LOAD IS LESS THAN EXISTING, LED REPLACED FLUORESCENT LAMPS.

PANEL "EHA" [*]

EXISTING

277 / 480 VOLT 3 PHASE 4 WIRE SERVICE
AMP
AIC 125 MAIN LUGS ONLY 100% NEUTRAL BUS GROUND BUS SURFACE MOUNTED

DESCRIPTION	L	R	7|5|O M|A|E|H		PHASE			L	R	7|5|O M|A|E|H	DESCRIPTION
[BAD BREAKER]				20 1	A	2 20		3485			L-EM FIRST FLR [1]
L-KITCHEN CORR EL RM				20 3	B	4 20					SPR
L-PARKING STORAGE				20 5	C	6 20					SPR
SPR				20 7	A	8 20					SPR
SPR				20 9	B	10 20					SPR
SPR				20 11	C	12 20					SPR
SPR				20 13	A	14 20					SPR
SPR				20 15	B	16 20					SPR
SPR				20 17	C	18 20					SPR
SPR				20 19	A	20 20					SPR
SPR				20 21	B	22 20					SPR
SPR				20 23	C	24 20					SPR
SPR				20 25	A	26 20					SPR
SPR				20 27	B	28 20					SPR
SPR				20 29	C	30 20					SPR
SPR				20 31	A	32 20					SPR
SPR				20 33	B	34 20					SPR
SPR				20 35	C	36 20					SPR
SPR				20 37	A	38 40					30KVA XFMR TO ELA
SPR				20 39	B	40 |				---
SPR				20 41	C	42 |				---

TOTAL		M A E	LOADS IN VOLT-AMPERES				M A E	TOTAL
					3485			

	CONNECTED	D.F.	DEMAND		
LIGHTING	3.5	1.25	4.4	CONNECTED	3.5 KVA
RECEPT. (FIRST 10 KW)		1.00		DESIGN	KVA
RECEPT. (REMAINDER)		0.50		DEMAND	4.4 KVA
MOTORS		1.00		SPARE	-4.4 KVA
LARGEST MOTOR		1.25		CONNECTED	
APPLIANCES		1.00		PHASE A	3.5 KVA
EQUIPMENT		1.00		PHASE B	KVA
HEATING		1.00		PHASE C	KVA
TRANSFORMER		1.00			
OTHER		1.00		A TO B	
				B TO C	
				C TO A	
TOTAL	3.5	KVA	4.4	KVA	ALL CIRCUIT BREAKERS
LOAD	4.2	AMPS	5.2	AMPS	ARE 20 AMP, 1 POLE
DESIGN				AMPS	UNLESS NOTED OTHERWISE
SPARE			-5.2	AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES: [*] NEW LOAD IS LESS THAN EXISTING LOAD. LED REPLACING FLUORESCENT.
[1] CONNECT NEW LOAD TO EXISTING BREAKER.

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

ELECTRICAL SCHEDULES

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: EMB CHECKED BY: MRZ

DATE: 11/13/2018 SHEET NO: E601

PROJECT NO: 1727

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PANEL "LA-A" [*] — EXISTING

120 / 208 VOLT | 3 PHASE | 4 WIRE SERVICE
400 AMP | 22,000 AIC | 400 A MAIN LUGS ONLY | GROUND BUS | 100% NEUTRAL BUS | SURFACE MOUNTED

DESCRIPTION	L	R	T|S|O M|A|E|H	PHASE					L	R	T|S|O M|A|E|H	DESCRIPTION
R-EXH W.FLR				60	1	A	2	60				R-EXH E.FLR
---					3	B	4					---
R-EXH W.FLR				60	5	C	6	60				R-EXH E.FLR
---					7	A	8					---
R-EXH W.FLR				60	9	B	10	60				R-EXH E.FLR
---					11	C	12					---
R-LOWER LEVEL				20	13	A	14	60				R-EXH E.FLR
L-LOWER STOR				20	15	B	16					---
[1] R-CORD REEL		360		20	17	C	18	60				R-EXH E.FLR
EX LOAD				20	19	A	20					---
R-EXH CENTER FLR				20	21	B	22	60				R-EXH E.FLR
R-EXH CENTER FLR				20	23	C	24					---
R-EXH W.FLR				20	25	A	26	20				R-MEETING
R-EXH W.FLR				20	27	B	28	20				R-MEETING
R-EXH W.FLR				20	29	C	30	20				R-MEETING
R-EXH W.FLR				20	31	A	32	20				R-MEETING
R-EXH W.FLR				20	33	B	34	20				R-MEETING
R-EXH W.FLR				20	35	C	36	20				R-MEETING
R-EXH W.FLR				20	37	A	38	20				R-UNDERPNL
R-POPCORN				20	39	B	40	20				R-MEETING
---					41	C	42	20				R-EXH E.FLR
TOTAL		360	M A E	LOADS IN VOLT-AMPERES							M A E	TOTAL

	CONNECTED	D.F.	DEMAND	
LIGHTING		1.25		CONNECTED 0.7 KVA
RECEPT. (FIRST 10 KW)	0.7	1.00	0.7	DESIGN 144.1 KVA
RECEPT. (REMAINDER)		0.50		DEMAND 0.7 KVA
MOTORS		1.00		SPARE 143.4 KVA
LARGEST MOTOR		1.25		CONNECTED
APPLIANCES		1.00		PHASE A KVA
EQUIPMENT		1.00		PHASE B KVA
HEATING		1.00		PHASE C 0.4 KVA
TRANSFORMER		1.00		
OTHER		1.00		A TO B
				B TO C
				C TO A
TOTAL	0.7 KVA		0.7 KVA	ALL CIRCUIT BREAKERS
LOAD	2.0 AMPS		2.0 AMPS	ARE 20 AMP, 1 POLE
DESIGN			400.0 AMPS	UNLESS NOTED OTHERWISE
SPARE			398.0 AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES: [1] CONNECT NEW LOAD TO EXISTING BREAKER.
[*] PROVIDE 7- AND 30-DAY METER READING TO JUSTIFY LOAD.

PANEL "LA-B" [*] — EXISTING

120 / 208 VOLT | 3 PHASE | 4 WIRE SERVICE
400 AMP | 22,000 AIC | MAIN LUGS ONLY | GROUND BUS | 100% NEUTRAL BUS | SURFACE MOUNTED

DESCRIPTION	L	R	T|S|O M|A|E|H	PHASE					L	R	T|S|O M|A|E|H	DESCRIPTION
R-EXH E				20	43	A	44	20				R-EXH E.FLR
[1] R-CORD REEL 123		360		20	45	B	46	20				R-EXH W.FLR
R-KITCHEN				20	47	C	48	20				R-EXH E.FLR
P4				20	49	A	50	60				R-EXH CENTER FLR
P4				20	51	B	52					---
P4				20	53	C	54	60				R-EXH CENTER FLR
R-EXH W.FLR				60	55	A	56					---
---					57	B	58	60				R-EXH E.FLR
R-EXH W.FLR				60	59	C	60					---
---					61	A	62	20				R-KITCHEN OFFICE
WIRELESS ROUTER				20	63	B	64	20				R-KITCHEN OFFICE
R-EXH FLR				20	65	C	66	20				R-S RR
EF-3_DW				20	67	A	68	20				R-ROOF
KITCHENHOOD CTI				20	69	B	70	20				R-ROOF
GARAGE DOOR				20	71	C	72	20				R-ROOF
R-EXH FLR				20	73	A	74	20				EF-2
COFFEE MACHINE				30	75	B	76	20				EF-3
---					77	C	78	20				EF-4
FAN COIL				20	79	A	80	60				FORKLIFT CHRGR
FAN COIL				20	81	B	82					-
SOLAR DATA LOGGER				20	83	C	84					-
TOTAL		360	M A E	LOADS IN VOLT-AMPERES							M A E	TOTAL

	CONNECTED	D.F.	DEMAND	
LIGHTING		1.25		CONNECTED 0.4 KVA
RECEPT. (FIRST 10 KW)	0.4	1.00	0.4	DESIGN KVA
RECEPT. (REMAINDER)		0.50		DEMAND 0.4 KVA
MOTORS		1.00		SPARE -0.4 KVA
LARGEST MOTOR		1.25		CONNECTED
APPLIANCES		1.00		PHASE A KVA
EQUIPMENT		1.00		PHASE B 0.4 KVA
HEATING		1.00		PHASE C KVA
TRANSFORMER		1.00		
OTHER		1.00		A TO B
				B TO C
				C TO A
TOTAL	0.4 KVA		0.4 KVA	ALL CIRCUIT BREAKERS
LOAD	1.0 AMPS		1.0 AMPS	ARE 20 AMP, 1 POLE
DESIGN			AMPS	UNLESS NOTED OTHERWISE
SPARE			-1.0 AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES: [1] CONNECT NEW LOAD TO EXISTING BREAKER.
[*] PROVIDE 7- AND 30-DAY METER READING TO JUSTIFY LOAD.

PANEL "LB" — EXISTING

120 / 208 VOLT | 3 PHASE | 4 WIRE SERVICE
150 AMP | AIC | 125 A MAIN LUGS ONLY | GROUND BUS | 100% NEUTRAL BUS | SURFACE MOUNTED

DESCRIPTION	L	R	T|S|O M|A|E|H	PHASE					L	R	T|S|O M|A|E|H	DESCRIPTION
AC-1				25	1	A	2	20				R-MECH RM
---					3	B	4	20				R-ELEC RM
IRRIGATION CONTROL				20	5	C	6	20				R-VESTIBULE
HEAT TAPE -MECH				20	7	A	8	20				R-ELEV RM
EF-6,-7				20	9	B	10	20				CUH - DOOR MOTOR
HEAT TAPE				20	11	C	12	20	180			R-FLR BOX 102
HEAT TAPE				20	13	A	14	20	180			R-FLR BOX 102
HEAT TAPE				20	15	B	16	20				SPR
SPR				20	17	C	18	20				SPR
SPR				20	19	A	20	20				SPR
SPR				20	21	B	22	20				SPR
SPR				20	23	C	24	20				SPR
SPR				20	25	A	26	20				SPR
SPR				20	27	B	28	20				SPR
SPR				20	29	C	30	20				SPR
SPR	[1]			20	31	A	32	20				SPR
SPR	[1]			20	33	B	34	20				SPR
SPR				20	35	C	36	20				SPR
SP				37	A	38	20					SPR
SP				39	B	40	25					SPR
SP				41	C	42						---
TOTAL		M A E	LOADS IN VOLT-AMPERES						360	M A E	TOTAL	

	CONNECTED	D.F.	DEMAND	
LIGHTING		1.25		CONNECTED 0.4 KVA
RECEPT. (FIRST 10 KW)	0.4	1.00	0.4	DESIGN 45.0 KVA
RECEPT. (REMAINDER)		0.50		DEMAND 0.4 KVA
MOTORS		1.00		SPARE 44.7 KVA
LARGEST MOTOR		1.25		CONNECTED
APPLIANCES		1.00		PHASE A 0.2 KVA
EQUIPMENT		1.00		PHASE B KVA
HEATING		1.00		PHASE C 0.2 KVA
TRANSFORMER		1.00		
OTHER		1.00		A TO B #DIV/0!
				B TO C
				C TO A 100.0%
TOTAL	0.4 KVA		0.4 KVA	ALL CIRCUIT BREAKERS
LOAD	1.0 AMPS		1.0 AMPS	ARE 20 AMP, 1 POLE
DESIGN			125.0 AMPS	UNLESS NOTED OTHERWISE
SPARE			124.0 AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES:

PANEL "LC-A" — EXISTING

120 / 208 VOLT | 3 PHASE | 4 WIRE SERVICE
400 AMP | AIC | 400 A MAIN CB | GROUND BUS | 100% NEUTRAL BUS | SURFACE MOUNTED

DESCRIPTION	L	R	T|S|O M|A|E|H	PHASE					L	R	T|S|O M|A|E|H	DESCRIPTION
R-WOMENS RR				20	1	A	2	20				R-MEETING S FLR
R-MENS RR				20	3	B	4	20				R-MEETING S FLR
R-SOUTH LOBBY				20	5	C	6	20				R-GFI LOBBY
R-MEETING N				20	7	A	8	20				FUTURE UPS
R-MEETING N				20	9	B	10	20				FUTURE UPS
R-MEETING N				20	11	C	12	30				UPS W. UC
R-MEETING N FLR				20	13	A	14	20				R-MEETING W FLR
R-MEETING N FLR				20	15	B	16	20				R-MEETING W FLR
R-MEETING N FLR				20	17	C	18	20				R-ELEC. PHONE
R-OFFICE				20	19	A	20	20				R-MEETING W
R-OFFICE				20	21	B	22	20				R-MEETING W
R-OFFICE				20	23	C	24	20				R-MEETING FLR
DAIKIN				30	25	A	26	20				R-RECEPTION
---					27	B	28	20				R-RECEPTION
DAIKIN PLUG				20	29	C	30	20				R-RECEPTION
R-WORK RM				20	31	A	32	20				R-RECEPTION
R-WORK RM				20	33	B	34	20				R-WORK RM
R-WORK RM				20	35	C	36	20				R-WORK RM
WTR FNTN N				20	37	A	38	20		E	1000	PROJECTOR 102 [1]
WTR FNTN S				20	39	B	40	20		E	1000	PROJECTOR 102 [1]
R-PHONE				20	41	C	42	20		E	1000	PROJECTOR 102 [1]
TOTAL			M A E 3000	LOADS IN VOLT-AMPERES							M A E	TOTAL

	CONNECTED	D.F.	DEMAND	
LIGHTING		1.25		CONNECTED 11.4 KVA
RECEPT. (FIRST 10 KW)	3.8	1.00	3.8	DESIGN 112.5 KVA
RECEPT. (REMAINDER)		0.50		DEMAND 11.4 KVA
MOTORS		1.00		SPARE 101.2 KVA
LARGEST MOTOR		1.25		CONNECTED
APPLIANCES		1.00		PHASE A 1.0 KVA
EQUIPMENT	7.6	1.00	7.6	PHASE B 1.0 KVA
HEATING		1.00		PHASE C 1.0 KVA
TRANSFORMER		1.00		
OTHER		1.00		A TO B 100.0%
				B TO C 100.0%
				C TO A 100.0%
TOTAL	11.4 KVA		11.4 KVA	ALL CIRCUIT BREAKERS
LOAD	31.6 AMPS		31.6 AMPS	ARE 20 AMP, 1 POLE
DESIGN			312.4 AMPS	UNLESS NOTED OTHERWISE
SPARE			280.8 AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES: [1] CONNECT NEW LOAD TO EXISTING BREAKER.

PANEL "LC-B" [*] — EXISTING

120 / 208 VOLT | 3 PHASE | 4 WIRE SERVICE
400 AMP | AIC | 400 A MAIN CB | GROUND BUS | 100% NEUTRAL BUS | SURFACE MOUNTED

DESCRIPTION	L	R	T|S|O M|A|E|H	PHASE					L	R	T|S|O M|A|E|H	DESCRIPTION
[2] SPR				20	43	A	44	20				R-ROOF
[2] SPR				20	45	B	46	20				R-ROOF
[2] SPR				20	47	C	48	20				R-ROOF
[2] SPR				20	49	A	50	20				EF-5
[2] SPR				20	51	B	52	20				PAY PHONE
[2] SPR				20	53	C	54	30				PAY PHONE
[2] SPR				20	55	A	56	20				SPR [2]
[2] SPR				20	57	B	58	20				SPR [2]
CP-1				20	59	C	60	100				SOUND PANEL
FCU-2				20	61	A	62					---
DOOR MOTOR				20	63	B	64					---
FCU-4				20	65	C	66	20		E	500	PROJECTOR 102 [1]
I.-STEP PHOTOCELL				20	67	A	68	20				ATRIUM
MARQUEE				20	69	B	70	20		E	1650	HOT BOX 101 [1]
R-SOUND RM				20	71	C	72	20		E	1650	HOT BOX 101 [1]
L-SOUND RM				20	73	A	74	20		E	300	TV 100,105 [1]
TIME CLOCK METER				20	75	B	76	20				SPR
[1] R-CONV 102		1080		20	77	C	78	20				SPR
[1] R-CONV 102		900		20	79	A	80	20				SPR
[1] R-CONV 102		1080		20	81	B	82	20				SPR
[1] R-CONV 102		720		20	83	C	84	20		E	500	MOTORIZED HOIST [1]
TOTAL		3780	M A E 4600	LOADS IN VOLT-AMPERES							M A E	TOTAL

	CONNECTED	D.F.	DEMAND	
LIGHTING		1.25		CONNECTED 8.4 KVA
RECEPT. (FIRST 10 KW)	3.8	1.00	3.8	DESIGN 112.5 KVA
RECEPT. (REMAINDER)		0.50		DEMAND 8.4 KVA
MOTORS		1.00		SPARE 104.2 KVA
LARGEST MOTOR		1.25		CONNECTED
APPLIANCES		1.00		PHASE A 1.2 KVA
EQUIPMENT	4.6	1.00	4.6	PHASE B 2.7 KVA
HEATING		1.00		PHASE C 4.5 KVA
TRANSFORMER		1.00		
OTHER		1.00		A TO B 44.0%
				B TO C 61.3%
				C TO A 27.0%
TOTAL	8.4 KVA		8.4 KVA	ALL CIRCUIT BREAKERS
LOAD	23.3 AMPS		23.3 AMPS	ARE 20 AMP, 1 POLE
DESIGN			312.4 AMPS	UNLESS NOTED OTHERWISE
SPARE			289.1 AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES: [1] CONNECT NEW LOAD TO EXISTING BREAKER.
[2] REMOVE LOAD FROM BREAKER, TURN BREAKER OFF AND MARK SPARE.
[3] REMOVE BREAKER, PROVIDE NEW. MATCH EXISTING MANUFACTURER, AIC RATING, AND TRIP STYLE.
[*] PROVIDE 7- AND 30-DAY METER READING.

PANEL "LDP" — EXISTING

120 / 208 VOLT | 3 PHASE | 4 WIRE SERVICE
1000 AMP | 50k AIC | 1000 A MAIN CB | GROUND BUS | 100% NEUTRAL BUS | SURFACE MOUNTED

DESCRIPTION	L	R	T|S|O M|A|E|H	PHASE					L	R	T|S|O M|A|E|H	DESCRIPTION
PNL LK				400	1	A	2	400		S		PNL LA
---					3	B	4			S		---
---					5	C	6			S	0.36	---
[1] NEW PNL LE			S	24328	250	7	A	8	200			SOUTH STAGE SW
---			S	23254		9	B	10				---
---			S	21244		11	C	12				---
EX LOAD					200	13	A	14	200			NORTH STAGE SW
---						15	B	16				---
---						17	C	18				---
PNL LB				0.18	100	19	A	20	100			REFRIGERATOR PNL
---						21	B	22				---
---				0.18		23	C	24				---
TOTAL			M A E	LOADS IN VOLT-AMPERES							M A E	TOTAL

	CONNECTED	D.F.	DEMAND	
LIGHTING		1.25		CONNECTED 69.9 KVA
RECEPT. (FIRST 10 KW)	5.4	1.00	5.4	DESIGN 300.0 KVA
RECEPT. (REMAINDER)		0.50		DEMAND 69.9 KVA
MOTORS		1.00		SPARE 230.1 KVA
LARGEST MOTOR		1.25		CONNECTED
APPLIANCES		1.00		PHASE A 24.3 KVA
EQUIPMENT	64.5	1.00	64.5	PHASE B 23.3 KVA
HEATING		1.00		PHASE C 21.2 KVA
TRANSFORMER		1.00		
OTHER		1.00		A TO B 95.6%
				B TO C 91.4%
				C TO A 87.3%
TOTAL	69.9 KVA		69.9 KVA	ALL CIRCUIT BREAKERS
LOAD	194.0 AMPS		194.0 AMPS	ARE 20 AMP, 1 POLE
DESIGN			832.8 AMPS	UNLESS NOTED OTHERWISE
SPARE			638.8 AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES: [1] PROVIDE NEW BREAKER, MATCH EXISTING MANUFACTURER, AIC RATING, AND TRIP STYLE.
[2] NEW LOAD ADDED TO EXISTING PANEL. SEE PANEL SCHEDULE FOR MORE INFORMATION.

PANEL "LE" — NEW

120 / 208 VOLT | 3 PHASE | 4 WIRE SERVICE
250 AMP | 22k AIC | 250 A MAIN CB | GROUND BUS | 100% NEUTRAL BUS | SURFACE MOUNTED

DESCRIPTION	L	R	T|S|O M|A|E|H	PHASE					L	R	T|S|O M|A|E|H	DESCRIPTION
PROJECTOR 102			E 1000	20	1	A	2	30			E 1664	L21-30R 102
SPR				20	3	B	4				E 1664	---
SPR				20	5	C	6	30			E 1664	L21-30R 102
SPR				20	7	A	8				E 1664	---
SPR				20	9	B	10	20			E 500	MOTORIZED HOIST
MOTORIZED HOIST			E 500	20	11	C	12	20				SPR
R-CONV 101		360		20	13	A	14	20				SPR
HOT BOX 101			E 1650	20	15	B	16	20				SPR
HOT BOX 101			E 1650	20	17	C	18	20				SPR
HOT BOX 101			E 1650	20	19	A	20	20		E	500	MOTORIZED HOIST
HOT BOX 101			E 1650	20	21	B	22	20	1080			R-CONV 102
HOT BOX 101			E 1650	20	23	C	24	20	1080			R-CONV 102
HOT BOX 101			E 1650	20	25	A	26	20	1080			R-CONV 102
HOT BOX 101			E 1650	20	27	B	28	20		E	300	TV 103
SPR				20	29	C	30	20		E	300	TV 103
SPR				20	31	A	32	20	360			R-CORD REEL 123
SPR				20	33	B	34	20	360			R-CORD REEL 123
SPR				20	35	C	36	20				SPR
SPR				20	37	A	38	30		E	2400	L21-30R 102
SPR				20	39	B	40			E	2400	---
SPR				20	41	C	42			E	2400	---
SPR				20	43	A	44	30		E	2400	L21-30R 102
SPR				20	45	B	46			E	2400	---
SPR				20	47	C	48			E	2400	---
L21-30R 102			E 2400	30	49	A	50	30		E	2400	L21-30R 102
---			E 2400		51	B	52			E	2400	---
---			E 2400		53	C	54			E	2400	---
L21-30R 102			E 2400	30	55	A	56	30		E	2400	L21-30R 102
---			E 2400		57	B	58			E	2400	---
---			E 2400		59	C	60			E	2400	---
TOTAL		360	M A E 27450	LOADS IN VOLT-AMPERES					3960	M A E 37056		TOTAL

	CONNECTED	D.F.	DEMAND	
LIGHTING		1.25		CONNECTED 68.8 KVA
RECEPT. (FIRST 10 KW)	4.3	1.00	4.3	DESIGN 90.1 KVA
RECEPT. (REMAINDER)		0.50		DEMAND 68.8 KVA
MOTORS		1.00		SPARE 21.2 KVA
LARGEST MOTOR		1.25		CONNECTED
APPLIANCES		1.00		PHASE A 24.3 KVA
EQUIPMENT	64.5	1.00	64.5	PHASE B 23.3 KVA
HEATING		1.00		PHASE C 21.2 KVA
TRANSFORMER		1.00		
OTHER		1.00		A TO B 95.6%
				B TO C 91.4%
				C TO A 87.3%
TOTAL	68.8 KVA		68.8 KVA	ALL CIRCUIT BREAKERS
LOAD	191.0 AMPS		191.0 AMPS	ARE 20 AMP, 1 POLE
DESIGN			250.0 AMPS	UNLESS NOTED OTHERWISE
SPARE			59.0 AMPS	SP = SPACE SPR = SPARE

L = LIGHTING R = RECEPTACLE M = MOTOR T= TRANSFORMER H = HEATING
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER

NOTES:

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

ELECTRICAL SCHEDULES

NO: ISSUED FOR: DATE:

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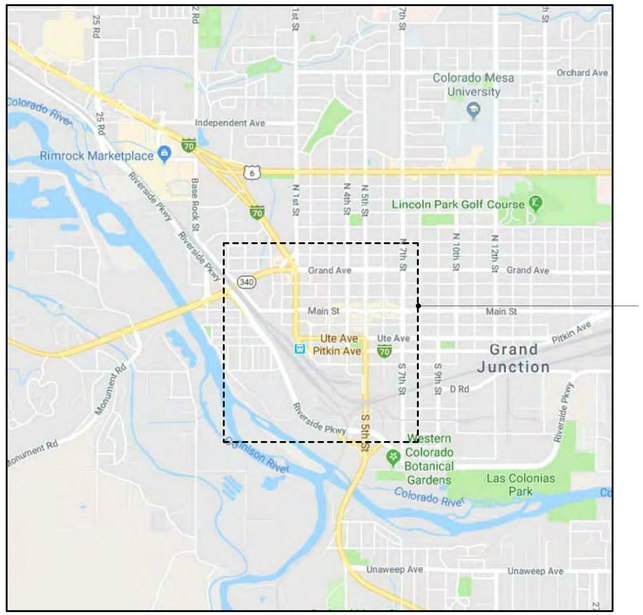
TWO RIVERS CONVENTION CENTER - REMODEL

50% CONSTRUCTION DOCUMENTS

GRAND JUNCTION, COLORADO

LOCALITY MAP



VICINITY MAP

VICINITY MAP

PROJECT LOCATION

OWNER

CITY OF GRAND JUNCTION
250 North 5th Street
Grand Junction, CO 81501

DESIGN TEAM

ARCHITECT:

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STRUCTURAL:

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MECHANICAL / ELECTRICAL / PLUMBING:

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DRAWING LIST

GENERAL

G001	COVER SHEET

ARCHITECTURAL

A001	NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES
A002	CODE PLANS & CHECKLIST
A021	PARKING LEVEL DEMO PLAN
A022	FIRST FLOOR DEMO PLAN
A023	REFLECTED CEILING DEMO PLAN
A024	REFLECTED CEILING DEMO PLAN
A025	REFLECTED CEILING DEMO PLAN
A026	ROOF DEMO PLAN
A101	PARKING LEVEL PLAN
A102	PARKING LEVEL PLAN
A103	MAIN LEVEL PLAN
A121	REFLECTED CEILING PLAN
A122	REFLECTED CEILING PLAN
A123	REFLECTED CEILING PLAN
A124	ENLARGED REFLECTED CEILING PLAN
A141	ROOF PLAN
A142	ROOF PLAN
A161	INTERIOR FINISH PLAN
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A301	ENLARGED FLOOR PLAN
A401	INTERIOR ELEVATIONS
A402	INTERIOR ELEVATIONS
A403	INTERIOR ELEVATIONS
A404	INTERIOR ELEVATIONS
A405	INTERIOR ELEVATIONS
A406	INTERIOR ELEVATIONS
A407	INTERIOR ELEVATIONS
A408	INTERIOR ELEVATIONS
A409	INTERIOR ELEVATIONS
A410	INTERIOR ELEVATIONS
A411	INTERIOR ELEVATIONS
A412	INTERIOR ELEVATIONS
A413	INTERIOR ELEVATIONS
A414	INTERIOR ELEVATIONS
A415	INTERIOR ELEVATIONS
A416	INTERIOR ELEVATIONS
A417	INTERIOR ELEVATIONS
A418	INTERIOR ELEVATIONS
A419	INTERIOR ELEVATIONS
A420	INTERIOR ELEVATIONS
A501	WALL SECTIONS
A502	WALL SECTIONS
A503	WALL SECTIONS
A641	ROOF DETAILS
A701	DOOR TYPES & SCHEDULE
A702	DOOR DETAILS
A721	WINDOW TYPES
A722	WINDOW DETAILS

DRAWING LIST

STRUCTURAL

S001	GENERAL NOTES
S002	SCHEDULES OF SPECIAL INSPECTIONS
S021	FOUNDATION DEMOLITION PLAN
S022	MAIN LEVEL DEMOLITION PLAN
S023	LOW ROOF DEMOLITION PLAN
S101	FOUNDATION PLAN
S102	MAIN LEVEL FRAMING PLAN
S103	LOW ROOF FRAMING PLAN
S104	UPPER ROOF FRAMING PLAN

MECHANICAL

M000	MECHANICAL COVER SHEET
M011	PARKING LEVEL MECHANICAL DEMO PLAN
M021	FIRST FLOOR MECHANICAL DEMO PLAN
M031	ROOF MECHANICAL DEMO PLAN
M101	PARKING LEVEL MECHANICAL PLAN
M102	MAIN LEVEL MECHANICAL PLAN
M142	ROOF MECHANICAL PLAN
M300	ENLARGED PENTHOUSE MECHANICAL PLAN
M500	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
M601	MECHANICAL SCHEDULES

PLUMBING

P011	PARKING LEVEL PLUMBING DEMO PLAN
P021	MAIN FLOOR PLUMBING DEMO PLAN
P101	PARKING LEVEL PLUMBING PLAN
P102	MAIN LEVEL PLUMBING PLAN
P142	ROOF PLUMBING PLAN
P601	PLUMBING SCHEDULES

ELECTRICAL

E000	ELECTRICAL COVER SHEET
E022	FIRST FLOOR LIGHTING DEMO PLAN
E023	FIRST FLOOR ELECTRICAL DEMO PLAN
E102	FIRST FLOOR LIGHTING PLAN
E201	PARKING LEVEL ELECTRICAL PLAN
E202	FIRST FLOOR POWER AND SYSTEMS PLAN
E242	ROOF POWER PLAN
E400	ELECTRICAL ONE-LINE DIAGRAM
E401	ELECTRICAL COMCHECK
E600	ELECTRICAL SCHEDULES
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

COVER SHEET

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ARCHITECTURAL ABBREVIATIONS

ABV	above
ACC	accessories
AFF	above finished floor
ALT	alternate
AL	aluminum
APC	acoustical panel ceiling
ARCH	architect (ural)
ASPH	asphalt
A/C	air conditioning
BCS	baby changing station
BD	board
BLDG	building
BLKG	blocking
BO	bottom of
BRG	bearing
CBU	cemetitious backer unit
CG	corner guard
CJ	control joint
CLG	ceiling
CLR	clear (ance)
CMU	concrete masonry unit
COL	column
CONC	concrete
CONT	continuous or continue
CORR	corridor
CPT	carpet (ed)
CSMT	casement
CT	ceramic tile
CTR	center
CWOG	center wall on grid
DBL	double
DEMO	demolish / demolition
DF	drinking fountain
DIM	dimension (s)
DIR	direction
DISP	dispenser
DN	down
DR	door
DS	downspout
DTL	detail
DWG	drawing
DWR	drawer
E	east
EA	each
EC	evaporative cooler
EG	etched glass/glazing
EIFS	exterior insul finish sys
EJ	expansion joint
EL	elevation
ELEC	electric (al)
EM	emergency
EWC	electric water cooler
EWG	end wall corner guard
EQ	equal
EXG	existing
EXH	exhaust
EXP	exposed
EXT	exterior
FBO	furnished by owner
FD	floor drain
FDN	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FEP	finished end panel
FFE	finished floor elevation
FIN	finish
FLG	flashing
FLR	floor (ing)
FLUR	fluorescent
FO	face of
FRMG	framing
FRP	fiber reinforced plastic
FT	foot (feet)
FTG	footing
GA	gage, gauge
GAL	gallon
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass, glazing
GWB	gypsum wallboard
GYP	gypsum
HAS	headed anchor stud
HB	hose bibb
HCP	handicap (ed)
HDR	header
HDW	hardware
HM	hollow metal
HOR	horizontal
HSS	hollow structural sections
HT	height
HVAC	heating /ventilation / air conditioning
HWD	hardwood
INCL	include (d) (ing)
INSUL	insulate (d) (ing)
INT	interior
INV	invert
JST	joist
JT	joint
L	length, angle
LAM	laminate (d)
LAV	lavatory
LB	pound
LF	lineal foot
LG	laminated glass, glazing
LIN	linoleum
LT	light
MA	match
MAS	masonry
MATL	material
MAX	maximum
MB	marker board
MECH	mechanic (al)
MFR	manufacture (r) (d)
MH	manhole
MIN	minimum
MISC	miscellaneous
MLD	molding, moulding
MO	masonry opening
MT	mount (ed) (ing)
MTL	metal
N	north
N/A	not applicable
NIC	not in contract
NOM	nominal
NTS	not to scale
NECY	necessary
OC	on center (s)
OD	outside diameter
OFCI	owner furnished, contractor installed
OFD	overflow drain
OFOI	owner furnished, owner installed
OH	overhead
OL	occupant load
OLF	occupant load factor
OPG	opening
OPH	opposite hand
OPP	opposite
OSB	oriented strand board
OTS	open to structure
PB	particle board
PERF	perforate (d)
PERIM	perimeter
PLAM	plastic laminate
PLT	plate
PNL	panel
PNT	paint (ed)
PR	pair
PROJ	projector, projection
PSF	pounds per square foot
PSI	pounds per square inch
PT	pressure treated
PTD	paper towel dispenser
PTN	partition
PVC	polyvinyl cholride
PVMT	pavement
PWD	plywood
QT	quarry tile
R	riser, radius
RB	rubber base
REC	recycling
RCMD	recommend (ed) (ations)
RE	reference
REF	refrigerator
REIN	reinforce (d) (ing)
REQ	required
REV	revision (s), revised
RD	roof drain
RFG	roofing
RH	robe hook
RM	room
RO	rough opening
ROW	right of way
RR	restroom
RTU	roof top unit
RUB	rubber
S	south
SAG	susp acoustic grid
SC	shower curtain rod & hooks
SCH	schedule
SD	soap dispenser
SHT	sheet
SHTG	sheathing
SIM	similar
SND	sanitary napkin dispenser
SNV	sanitary napkin vendor
SPEC	specification
SPKR	speaker
SQ	square
SS	solid surface
SST	stainless steel
STD	standard
STL	steel
STOR	storage
STR	structural
SUSP	suspended
T	tread
TB	towel bar
TEL	telephone
T.O.	top of
TOC	top of concrete
TOS	top of steel
TOW	top of wall
TPD	toilet paper dispenser
TS	tube steel
TYP	typical
T&G	tongue and groove
UNO	unless noted otherwise
VB	vapor barrier
VCT	vinyl composition tile
VERT	vertical
VIF	verify in field
VM	vending machine
VNL	vinyl sheet
VTR	vent through roof
W	west, wide, width
W/	with
WB	wood base
WC	watercloset
WD	wood
WDW	window
WF	wide flange
WG	wire glass
W/O	without
WP	waterproof (ing)
WR	waste receptacle
WRB	weather resistive barrier
WWM	welded wire mesh

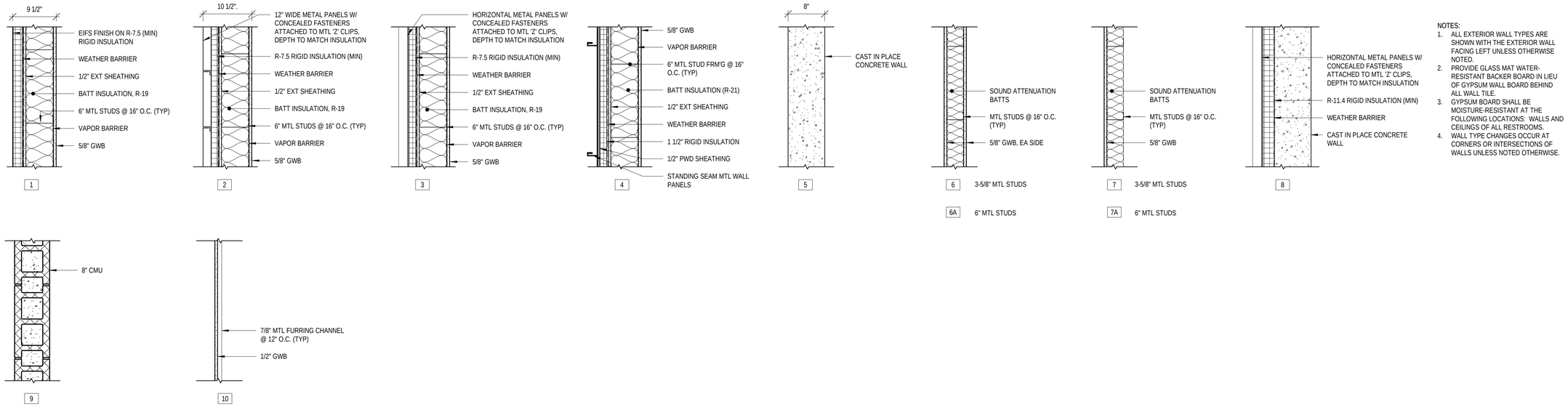
SYMBOLS

- REVISION
- ELEVATION (TOP OF WALL 100' 0")
- COLUMN GRID LOCATION (A)
- DOOR NUMBER (101A)
- WINDOW TYPE (AL, HM)
- CENTER LINE
- LINE OF WALL ABOVE OR HIDDEN LINE
- BREAK LINE
- MATCH LINE
- ROOM NAME / ROOM NUMBER (Room 101)
- INTERIOR WALL ELEVATION REFERENCE DRAWING (1, 2, 3, 4, A101)
- REFERENCED SECTION NUMBER / SHEET NUMBER (TYP, 1, A101)
- BASIC WALL TYPE (1)
- WALL TYPE AND PROPERTIES, SEE "WALL DESIGNATION KEY" BELOW (1, 2 SBXD)
- REFERENCED DETAIL NUMBER / SHEET NUMBER (TYP, 1, A101)
- ANGLE
- DIAMETER
- PERPENDICULAR
- PLATE
- PLUS OR MINUS
- FLOOR DRAIN (FD)
- FIRE EXTINGUISHER (FE)

GENERAL NOTES

1. COMPLY WITH ALL MANUFACTURERS RECOMMENDATIONS AND INDUSTRY STANDARDS RELEVANT TO THE WORK HEREIN.
2. ALL DIMENSIONS ARE FROM FACE OF FINISH UNO.
3. ALL ALIGNMENTS ARE FACE OF FINISH UNO.
4. FIELD VERIFY ALL DIMENSIONS AND ROUGH OPENINGS PRIOR TO FABRICATION AND/OR INSTALLATION.

WALL TYPES



NOTES:
1. ALL EXTERIOR WALL TYPES ARE SHOWN WITH THE EXTERIOR WALL FACING LEFT UNLESS OTHERWISE NOTED.
2. PROVIDE GLASS MAT WATER-RESISTANT BACKER BOARD IN LIEU OF GYPSUM WALL BOARD BEHIND ALL WALL TILE.
3. GYPSUM BOARD SHALL BE MOISTURE-RESISTANT AT THE FOLLOWING LOCATIONS: WALLS AND CEILINGS OF ALL RESTROOMS.
4. WALL TYPE CHANGES OCCUR AT CORNERS OR INTERSECTIONS OF WALLS UNLESS NOTED OTHERWISE.

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NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES

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DATE: **11/13/2018** SHEET NO:

PROJECT NO: **1727** **A001**

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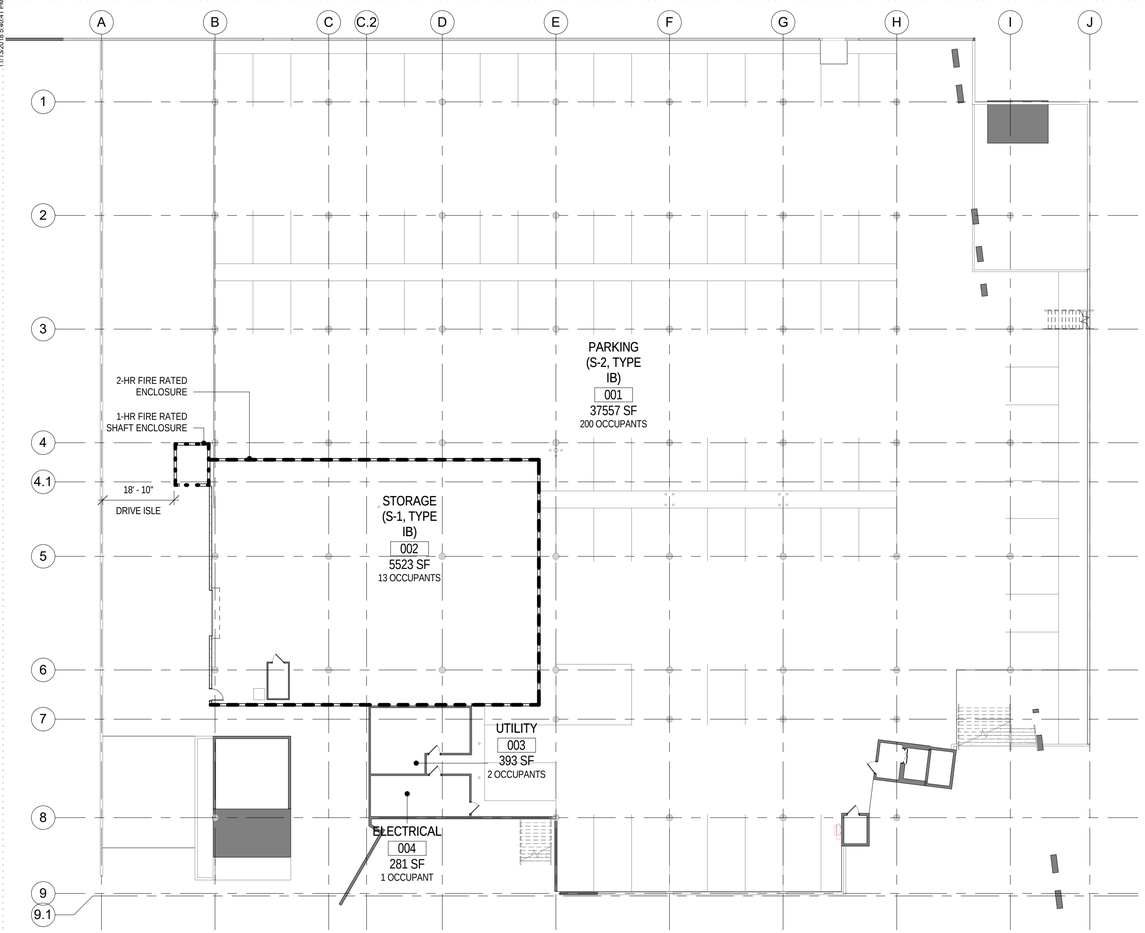
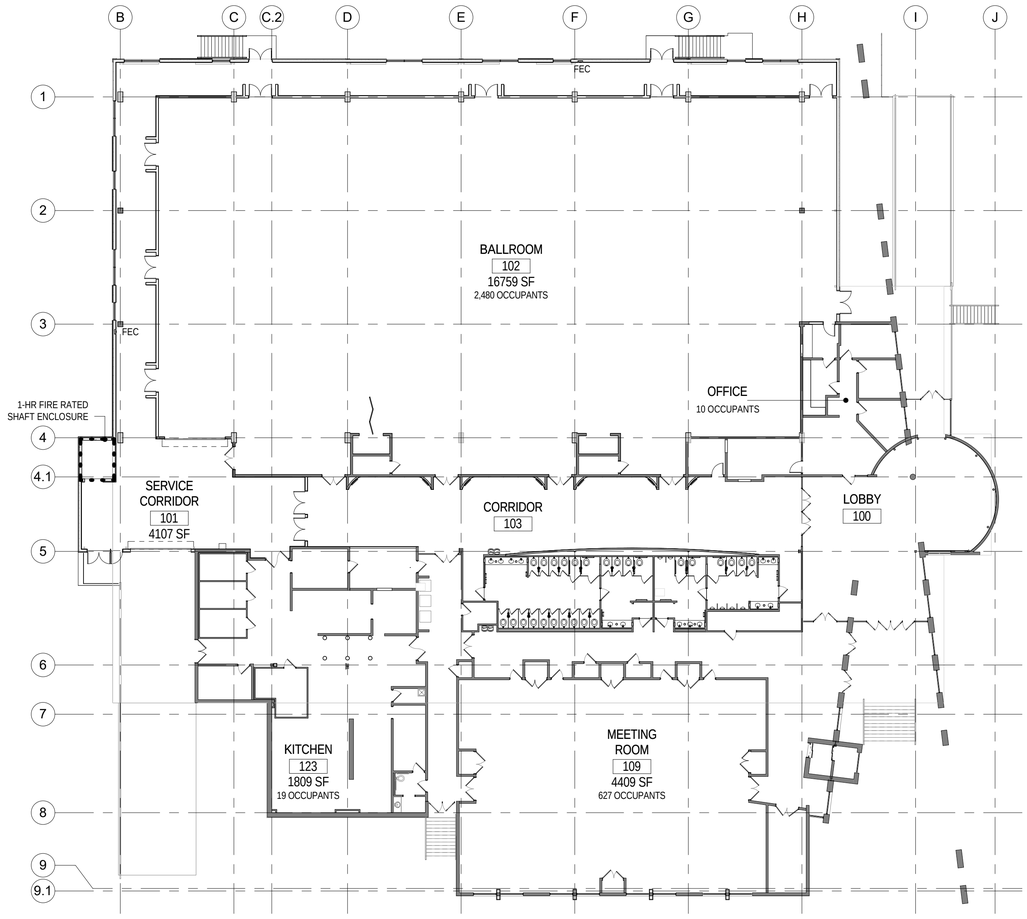


1 A002 PARKING LEVEL CODE PLAN

0' 10' 20'



2 A002 MAIN LEVEL CODE PLAN

0' 10' 20'

CODE CHECKLIST

CODES IN USE:

2012 INTERNATIONAL BUILDING CODE (IBC)
2012 INTERNATIONAL MECHANICAL CODE (IMC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2012 INTERNATIONAL PLUMBING CODE (IPC)
2012 INTERNATIONAL FUEL GAS CODE (IFGC)
2014 NATIONAL ELECTRICAL CODE (NEC)

TYPE OF OCCUPANCY:	PARKING LEVEL	GROUP S-2 & S-1 (SEPARATED PER TABLE 508.4)
	MAIN LEVEL	GROUP A-3
TYPE OF CONSTRUCTION:		
	PARKING LEVEL	TYPE I-B
	MAIN LEVEL	TYPE II-B
ALLOWABLE BUILDING AREA (A): (TABLE 503)		
	PARKING LEVEL	79,000 SF
	MAIN LEVEL	UNLIMITED (SECTION 507.6)
SITE SET BACKS		
FRONT YARD:		
SIDE YARD:		6'-10" TO PROPERTY LINE
REAR YARD:		3'-0" TO PROPERTY LINE
		60'+ TO PROPERTY LINE

ALLOWABLE AREA INCREASES

ALLOWABLE INCREASE FOR FRONTAGE: (SECTION 506.2)	PARKING LEVEL	MAIN LEVEL
	I = [F/P - 0.25] W/30	I = [F/P - 0.25] W/30
	I = [1 - 0.25] * 30/30 = 0.75	I = [1 - 0.25] * 30/30 = 0.75

TOTAL AREA INCREASES: A_a =[A +(A *If)]+(A *Is)	PARKING LEVEL	MAIN LEVEL
	A_a = {79,000 + [79,000 x 0.75] + [79,000 x 0)}	A_a = {6,000 + [6,000 x 0.75] + [6,000 x 2]}
	A_a = 79,000 + 59,250 SF PER STORY	A_a = 6,000 + 4,500 + 12,000 SF PER STORY
	A_a = 138,250 SF	A_a = 22,500 SF
AUTOMATIC SPRINKLER SYSTEM: (SECTION 506.3)	N/A	YES
ALLOWABLE INCREASE FOR MORE: THAN ONE STORY (SECTION 506.4)	N/A	N/A
TOTAL ALLOWABLE AREA:	138,250 SF	UNLIMITED (SECTION 507.6)
TOTAL PROVIDED AREA:	43,750 SF	40,869 SF
ALLOWABLE NUMBER OF STORIES: (504.2)	12	1
PROVIDED NUMBER OF STORIES:	1	1
EXIT ACCESS TRAVEL DISTANCE: (TABLE 1016.2)	200' ALLOWED	250' ALLOWED
INCIDENTAL USE AREA SEPARATION (508.2)		
FURNACE ROOM/BOILER ROOM	N/A	N/A
STORAGE (OVER 100 SF)	N/A	N/A
FIRE EXTINGUISHER	1 WITHIN 75 FT OF TRAVEL	1 WITHIN 75 FT OF TRAVEL

TOTAL OCCUPANT LOAD:	PARKING LEVEL	MAIN LEVEL
NUMBER OF EXITS REQUIRED FOR BUILDING (TABLE 1018.1):	2	
OCCUPANT LOAD:	216	3,142
WIDTH OF EXITS IN INCHES (SECTION 1005.1):	65 IN	628.4" (720" PROVIDED)

PLUMBING FIXTURE COUNTS:

BUSINESS OCCUPANCY (TABLE 2902.1)	REQUIRED	PROVIDED
MALE:		
WATER CLOSETS (1:25)	13	12
LAVATORIES (1:40)	8	7
FEMALE:		
WATER CLOSETS (1:25)	25	20
LAVATORIES (1:40)	8	6
SERVICE SINK:	1	1
DRINKING FOUNTAIN:	1	2

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CODE PLANS & CHECKLIST

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1 A021 PARKING LEVEL DEMO PLAN

0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY
5. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP.
6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
7. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
9. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING, TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
10. ITEMS NOT NOTED FOR DEMOLITION ARE TO BE PROTECTED FROM DAMAGE AND PREPARED TO RECEIVE NEW WORK. SURFACES TO REMAIN THAT ARE DAMAGED DURING THE PERFORMANCE OF REQUIRED DEMOLITION SHALL BE PATCHED AND/OR PAINTED TO MATCH EXISTING TO REMAIN ADJACENT SURFACES UNLESS NOTED OTHERWISE.
11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

FLOOR PLAN DEMO KEY NOTES (?)

1. DEMO DOOR & FRAME & PREP OPENING FOR NEW WALL INFILL TO MATCH ADJACENT.
2. DEMO WALL SEGMENT & PREP CUT SURFACES TO RECEIVE NEW FINISH TO MATCH ADJACENT.
3. DEMO CONCESSIONS COUNTERTOP & ROLLING SHUTTER ASSEMBLY, TURN OVER TO OWNER.
4. DEMO WALL ASSEMBLY & DOORS. TURN DOORS OVER TO OWNER.
5. DEMO LIGHT FIXTURES, WALL & FLOOR CERAMIC TILE, COUNTERTOPS, VANITIES, TOILET PARTITIONS, WATER CLOSETS, TOILET ACCESSORIES & ADA HARDWARE, MIRRORS, PAPER TOWEL DISPENSERS & HAND DRYERS. CAP PLUMBING PIPES IN PLACE TO RECEIVE NEW FIXTURES & TERMINATE ELECTRICAL WIRING TO RECEIVE NEW FIXTURES. PREP WALLS TO RECEIVE NEW CERAMIC TILE WAINSCOT & PREP WALLS TO RECEIVE NEW PAINT & TILE WAINSCOT.
6. DEMO SECTION OF LOADING DOCK CONCRETE GUARDRAIL.
7. DEMO STORAGE EXTERIOR WALLS, ROOF & ASSOCIATED STRUCTURE & DOORS. CONCRETE FLOOR SLAB TO REMAIN.
8. DEMO STAIRS, GUARD & HANDRAILS.
9. DEMO OPENING FOR NEW DOOR LOCATION.
10. SALVAGE CASEWORK & TURN OVER TO OWNER FOR RE-USE.
11. DEMO CARPET & BASE, CEILING TILES & LIGHT FIXTURES.
12. REMOVE DIVIDING PARTITIONS FOR FABRIC RE-COVERING.
13. DEMO WING WALLS & PREP CUT SURFACES FOR ADJACENT FINISH.
14. DEMO WOOD 2x4 WALLS. EXG LIGHT FIXTURES TO REMAIN.
15. DEMO WALLS. SALVAGE WALL CLADING & TURN OVER TO OWNER.
16. DEMO CONCRETE SLAB SILL TOPPING & PREP SURFACES TO RECEIVE NEW CONCRETE INFILL.
17. DEMO STL GUARD RAIL.
18. DEMO WOOD WALL CLADDING AND PREPARE WALL TO RECEIVE NEW WALL CLADDING
19. DEMO EXG DECORATIVE STEEL X-BRACES.
20. DEMO PLUMBING PIPING.
21. EXG WALK-IN COOLER & COMPRESSOR TO REMAIN.

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

PARKING LEVEL DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A021

PROJECT NO: 1727

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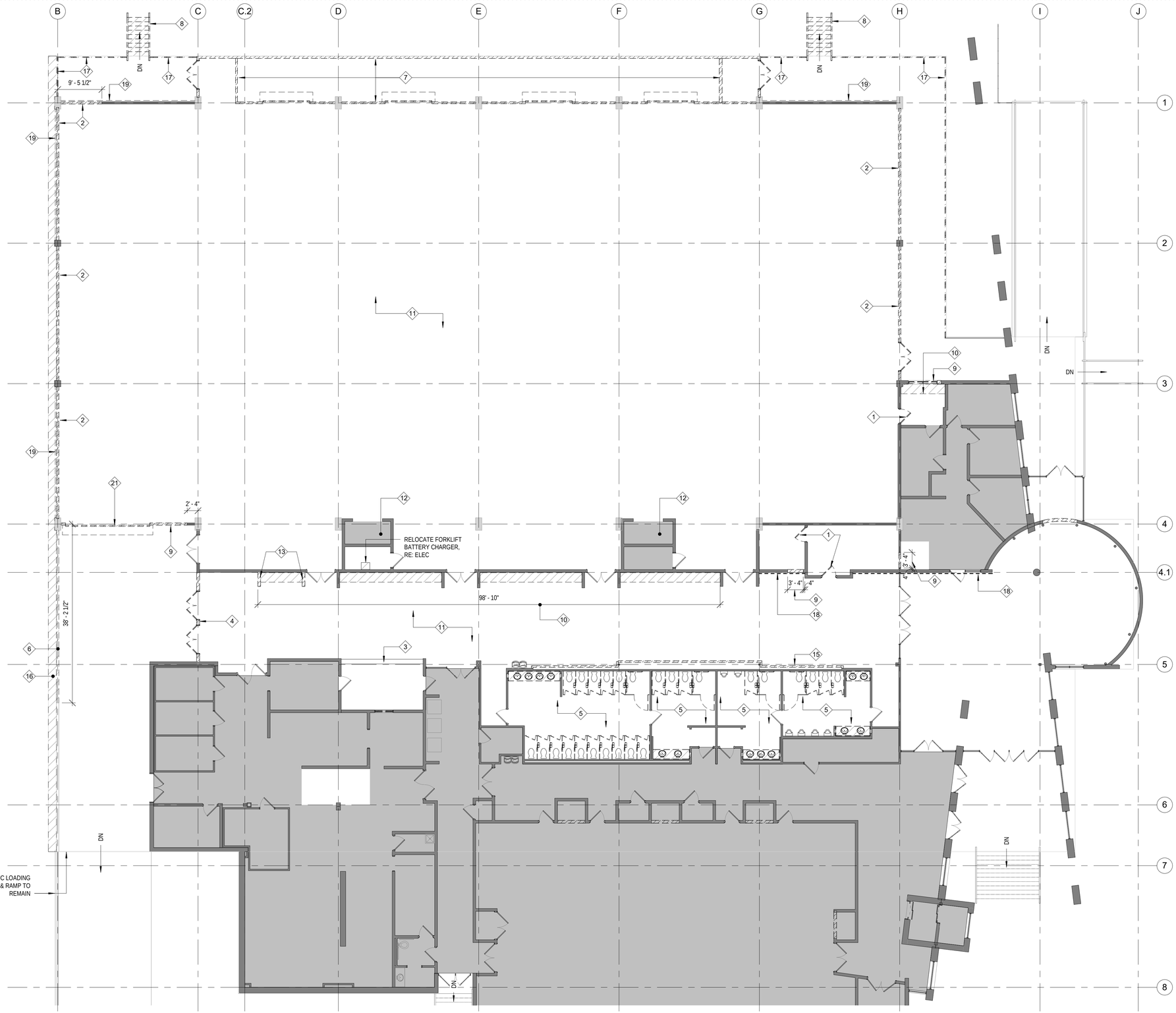

1 MAIN LEVEL DEMO PLAN (A022)
0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY
5. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP.
6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
7. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
9. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING, TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
10. ITEMS NOT NOTED FOR DEMOLITION ARE TO BE PROTECTED FROM DAMAGE AND PREPARED TO RECEIVE NEW WORK. SURFACES TO REMAIN THAT ARE DAMAGED DURING THE PERFORMANCE OF REQUIRED DEMOLITION SHALL BE PATCHED AND/OR PAINTED TO MATCH EXISTING TO REMAIN ADJACENT SURFACES UNLESS NOTED OTHERWISE.
11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

FLOOR PLAN DEMO KEY NOTES

1. DEMO DOOR & FRAME & PREP OPENING FOR NEW WALL INFILL TO MATCH ADJACENT.
2. DEMO WALL SEGMENT & PREP CUT SURFACES TO RECEIVE NEW FINISH TO MATCH ADJACENT.
3. DEMO CONCESSIONS COUNTERTOP & ROLLING SHUTTER ASSEMBLY, TURN OVER TO OWNER.
4. DEMO WALL ASSEMBLY & DOORS. TURN DOORS OVER TO OWNER.
5. DEMO LIGHT FIXTURES, WALL & FLOOR CERAMIC TILE, COUNTERTOPS, VANITIES, TOILET PARTITIONS, WATER CLOSETS, TOILET ACCESSORIES & ADA HARDWARE, MIRRORS, PAPER TOWEL DISPENSERS & HAND DRYERS. CAP PLUMBING PIPES IN PLACE TO RECEIVE NEW FIXTURES & TERMINATE ELECTRICAL WIRING TO RECEIVE NEW FIXTURES. PREP WALLS TO RECEIVE NEW CERAMIC TILE WAINSCOT & PREP WALLS TO RECEIVE NEW PAINT & TILE WAINSCOT.
6. DEMO SECTION OF LOADING DOCK CONCRETE GUARDRAIL.
7. DEMO STORAGE EXTERIOR WALLS, ROOF & ASSOCIATED STRUCTURE & DOORS. CONCRETE FLOOR SLAB TO REMAIN.
8. DEMO STAIRS, GUARD & HANDRAILS.
9. DEMO OPENING FOR NEW DOOR LOCATION.
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12. REMOVE DIVIDING PARTITIONS FOR FABRIC RE-COVERING.
13. DEMO WING WALLS & PREP CUT SURFACES FOR ADJACENT FINISH.
14. DEMO WOOD 2x4 WALLS. EXG LIGHT FIXTURES TO REMAIN.
15. DEMO WALLS. SALVAGE WALL CLADING & TURN OVER TO OWNER.
16. DEMO CONCRETE SLAB SILL TOPPING & PREP SURFACES TO RECEIVE NEW CONCRETE INFILL.
17. DEMO STL GUARD RAIL.
18. DEMO WOOD WALL CLADDING AND PREPARE WALL TO RECEIVE NEW WALL CLADDING
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20. DEMO PLUMBING PIPING.
21. EXG WALK-IN COOLER & COMPRESSOR TO REMAIN.

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

FIRST FLOOR DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A022

PROJECT NO: 1727

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1 A023 PARKING LEVEL REFLECTED CEILING DEMO PLAN

0' 8' 16'

LEGEND

EXISTING WALL TO BE DEMOLISHED
EXISTING ITEM TO BE DEMOLISHED
EXISTING WALL TO REMAIN
EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
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6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
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8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
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11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

REFLECTED CEILING PLAN DEMO KEY NOTES

1. DEMO HVAC DIFUSSERS & RETURNS, RE: MECH (TYP)
2. DEMO LIGHT FIXTURES, RE: ELEC (TYP)
3. DEMO CEILING MOUNTED SPEAKERS, RE: AV (TYP)
4. DRYWALL SOFFIT S & BULKHEAD TO REAMIN
5. DEMO CEILING TILES & GRID (TYP)
6. DEMO HVAC DIFFUSERS & EXHAUSTS, RE: MECH (TYP)
7. DEMO SUSPENDED MTL PANEL CEILING FEATURE
8. DEMO EXTERIOR FASCIA & SOFFIT INCLUDING FINISH FRM'G. RE: STR FOR STRUCTURAL MEMBERS
9. DEMO ALL CEILING FINISHES & ASSOCIATED FRM'G MEMBERS, RE: STR
10. DEMO TRACK LIGTHING, RE: ELEC
11. EXG RIGID INSULATION OVER CONC WAFFLE SLAB STRUCTURE TO REMAIN
12. DEMO RIGID INSULATION IN INDICATED AREA
13. REMOVE & SALVAGE CLG TILE & GRID FOR RE-INSTALLATION
14. DEMO GWB CLG & FRM'G TO ALLOW FOR MECH WORK, RE: MECH

LEGEND

EXISTING GYP BD TO REMAIN, PAINT
NEW GYP BD, PAINT
WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
DOWNLIGHT,RE: ELEC
DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
MINI PENDANT, RE: ELEC
2'X2' RECESSED LIGHT, RE: ELEC
2'X4' RECESSED LIGHT, RE: ELEC
PENDANT, RE: ELEC
SUPPLY AIR GRILLE, RE: MECH
EXHAUST FAN, RE: MECH
RETURN AIR GRILLE, RE: MECH
EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

SMOKE DETECTOR, RE ELEC
P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
S CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: **11/13/2018** SHEET NO:

PROJECT NO: **1727** **A023**

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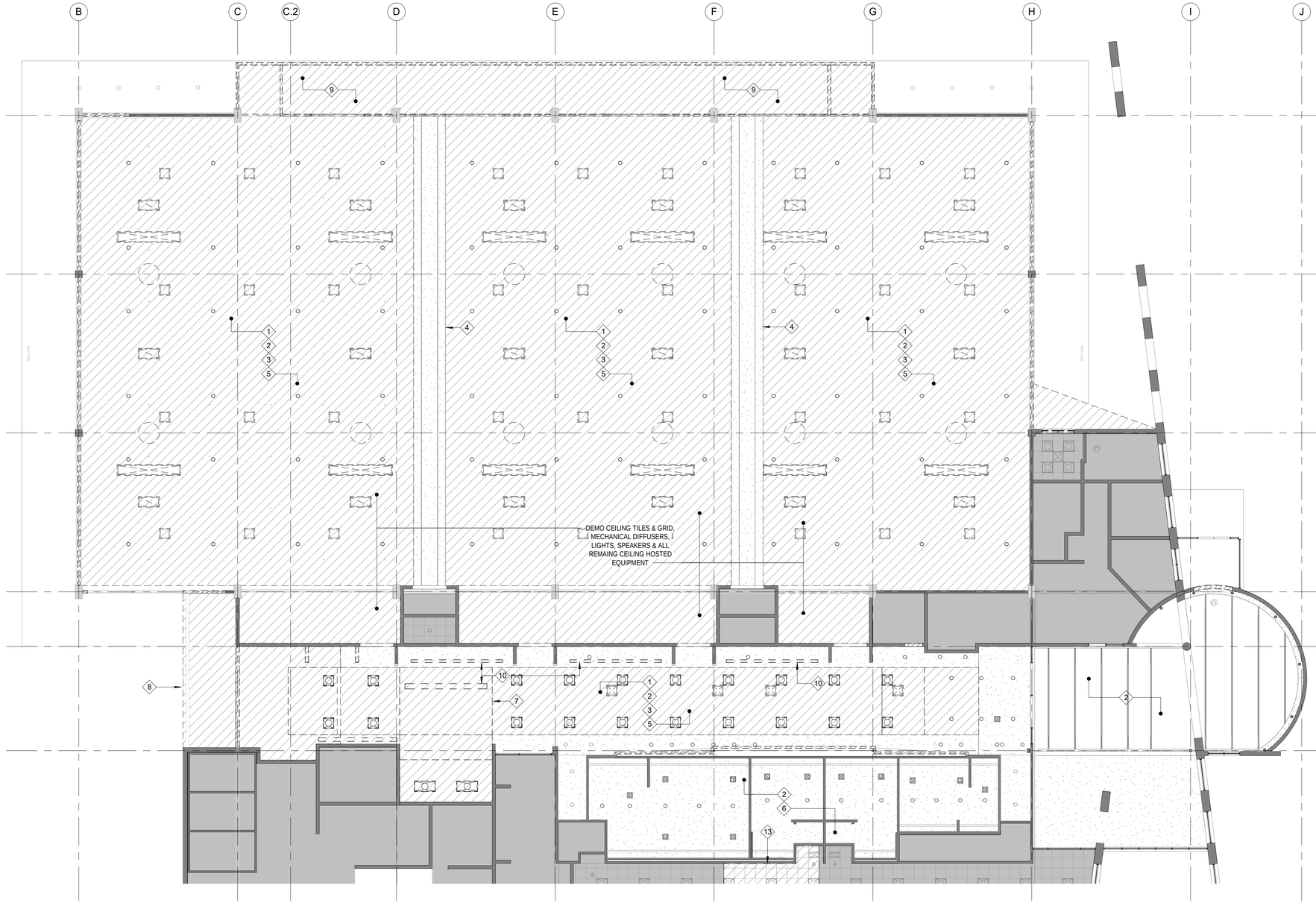

1 A024 MAIN LEVEL REFLECTED CEILING DEMO PLAN - NORTH

0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY
5. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP.
6. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
7. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
8. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
9. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING, TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
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11. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.
12. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

REFLECTED CEILING PLAN DEMO KEY NOTES 7

1. DEMO HVAC DIFUSSERS & RETURNS, RE: MECH (TYP)
2. DEMO LIGHT FIXTURES, RE: ELEC (TYP)
3. DEMO CEILING MOUNTED SPEAKERS, RE: AV (TYP)
4. DRYWALL SOFFIT S & BULKHEAD TO REAMIN
5. DEMO CEILING TILES & GRID (TYP)
6. DEMO HVAC DIFFUSERS & EXHAUSTS, RE: MECH (TYP)
7. DEMO SUSPENDED MTL PANEL CEILING FEATURE
8. DEMO EXTERIOR FASCIA & SOFFIT INCLUDING FINISH FRM'G. RE: STR FOR STRUCTURAL MEMBERS
9. DEMO ALL CEILING FINISHES & ASSOCIATED FRM'G MEMBERS, RE: STR
10. DEMO TRACK LIGTHING, RE: ELEC
11. EXG RIGID INSULATION OVER CONC WAFFLE SLAB STRUCTURE TO REMAIN
12. DEMO RIGID INSULATION IN INDICATED AREA
13. REMOVE & SALVAGE CLG TILE & GRID FOR RE-INSTALLATION
14. DEMO GWB CLG & FRM'G TO ALLOW FOR MECH WORK, RE: MECH

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO:

PROJECT NO: 1727 **A024**

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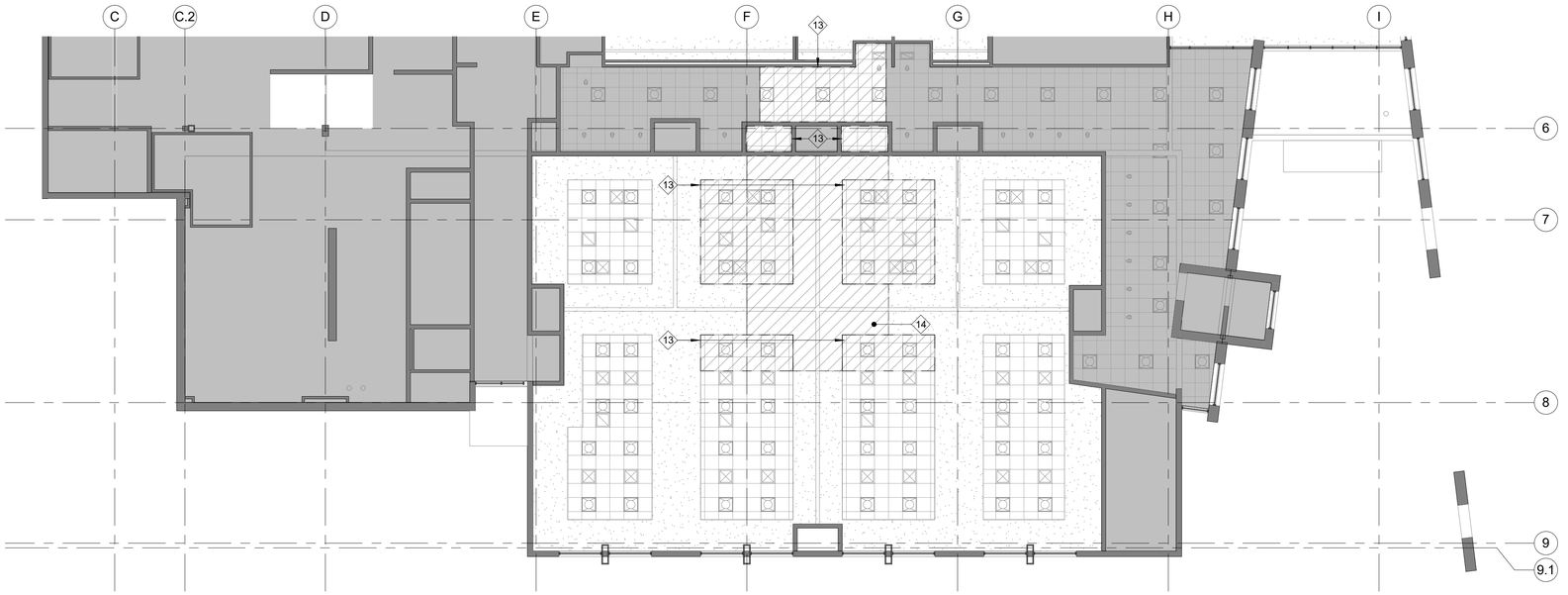

1 A025 MAIN LEVEL REFLECTED CEILING DEMO PLAN - SOUTH

0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL DEMOLITION NOTES

1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
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REFLECTED CEILING PLAN DEMO KEY NOTES (7)

1. DEMO HVAC DIFUSSERS & RETURNS, RE: MECH (TYP)
2. DEMO LIGHT FIXTURES, RE: ELEC (TYP)
3. DEMO CEILING MOUNTED SPEAKERS, RE: AV (TYP)
4. DRYWALL SOFFIT S & BULKHEAD TO REAMIN
5. DEMO CEILING TILES & GRID (TYP)
6. DEMO HVAC DIFFUSERS & EXHAUSTS, RE: MECH (TYP)
7. DEMO SUSPENDED MTL PANEL CEILING FEATURE
8. DEMO EXTERIOR FASCIA & SOFFIT INCLUDING FINISH FRM'G. RE: STR FOR STRUCTURAL MEMBERS
9. DEMO ALL CEILING FINISHES & ASSOCIATED FRM'G MEMBERS, RE: STR
10. DEMO TRACK LIGTHING, RE: ELEC
11. EXG RIGID INSULATION OVER CONC WAFFLE SLAB STRUCTURE TO REMAIN
12. DEMO RIGID INSULATION IN INDICATED AREA
13. REMOVE & SALVAGE CLG TILE & GRID FOR RE-INSTALLATION
14. DEMO GWB CLG & FRM'G TO ALLOW FOR MECH WORK, RE: MECH

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S CEILING MOUNTED SPEAKER LOCATIONS TBD
- PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.
- MICROPHONE ANTENNA LOCATIONS TBD
- DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING DEMO PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
CD

DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A025

PROJECT NO: 1727

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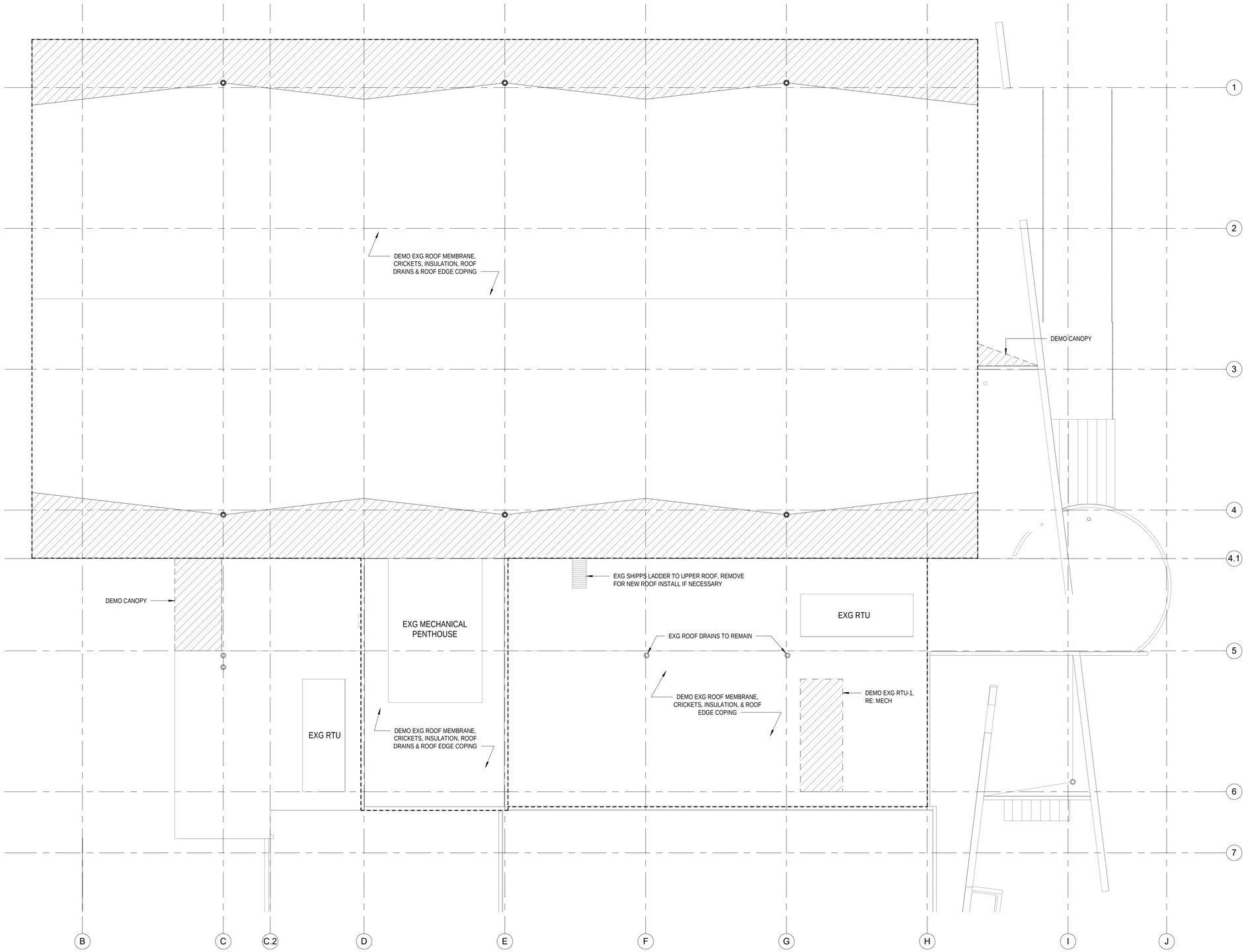

1 A026 ROOF DEMO PLAN

0' 8' 16'

LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING ITEM TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN

GENERAL ROOF DEMOLITION NOTES

1. INFILL EXISTING ROOF OPENINGS THAT ARE NOT TO BE REUSED AS PER STRUCTURAL.
2. REMOVE DRY ROTTED, MOLDED OR STRUCTURALLY UNACCEPTABLE DAMAGED WOOD FRAMING MEMBERS AND DECKING AND REPLACE AS PER STRUCTURAL.
3. REMOVED ROTTED PERIMETER ROOF EDGE BLOCKING AND REPLACE AS PER NEW ROOF DETAILS.
4. REMOVE ANY REMAINING STEEL FRAMING FROM OLD MECHANICAL UNIT SUPPORTS FROM ROOF.
5. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL.

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ROOF DEMO PLAN

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PROJECT NO: **1727** **A026**

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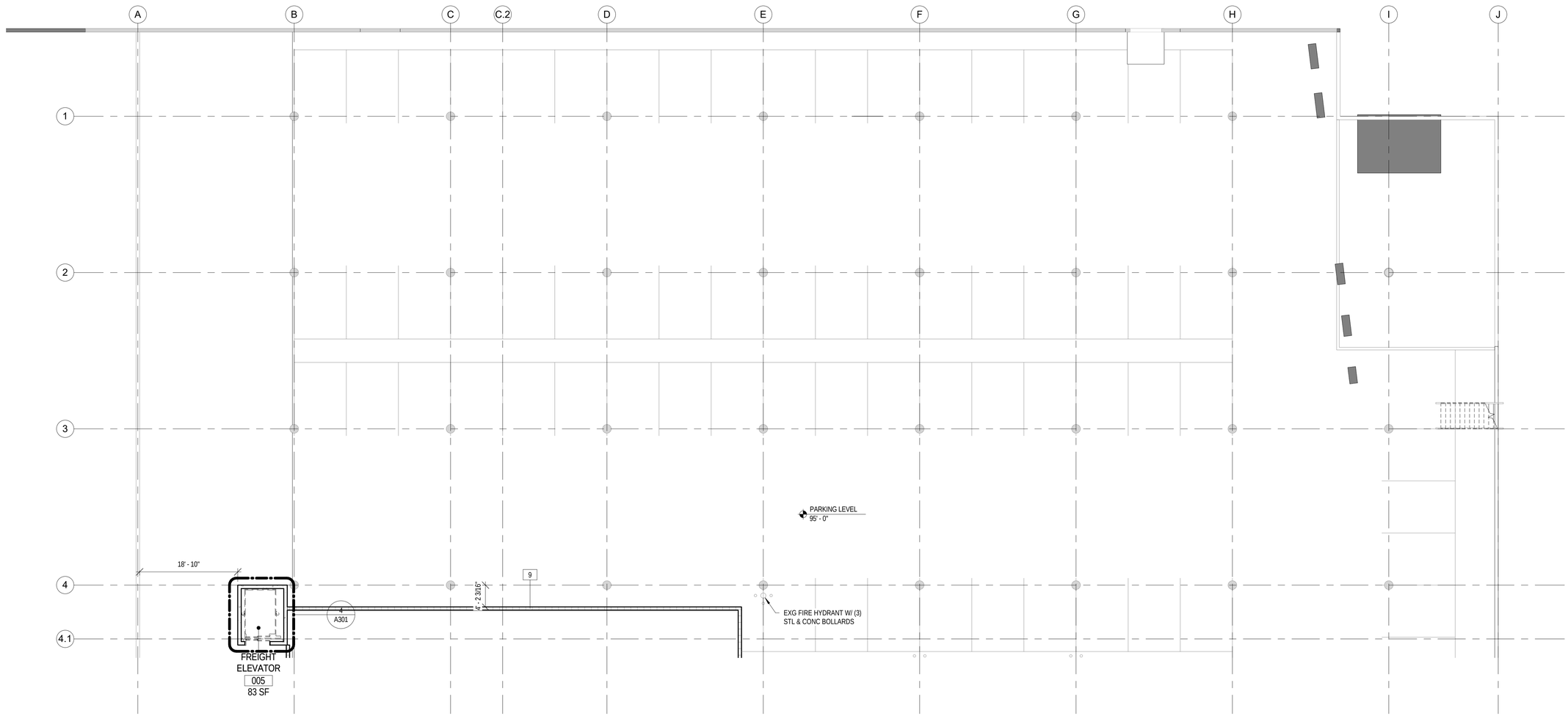

1 A101 PARKING LEVEL - NORTH

0" 8" 16"

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GRAND JUNCTION, COLORADO

PARKING LEVEL PLAN

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DATE: **11/13/2018** SHEET NO:

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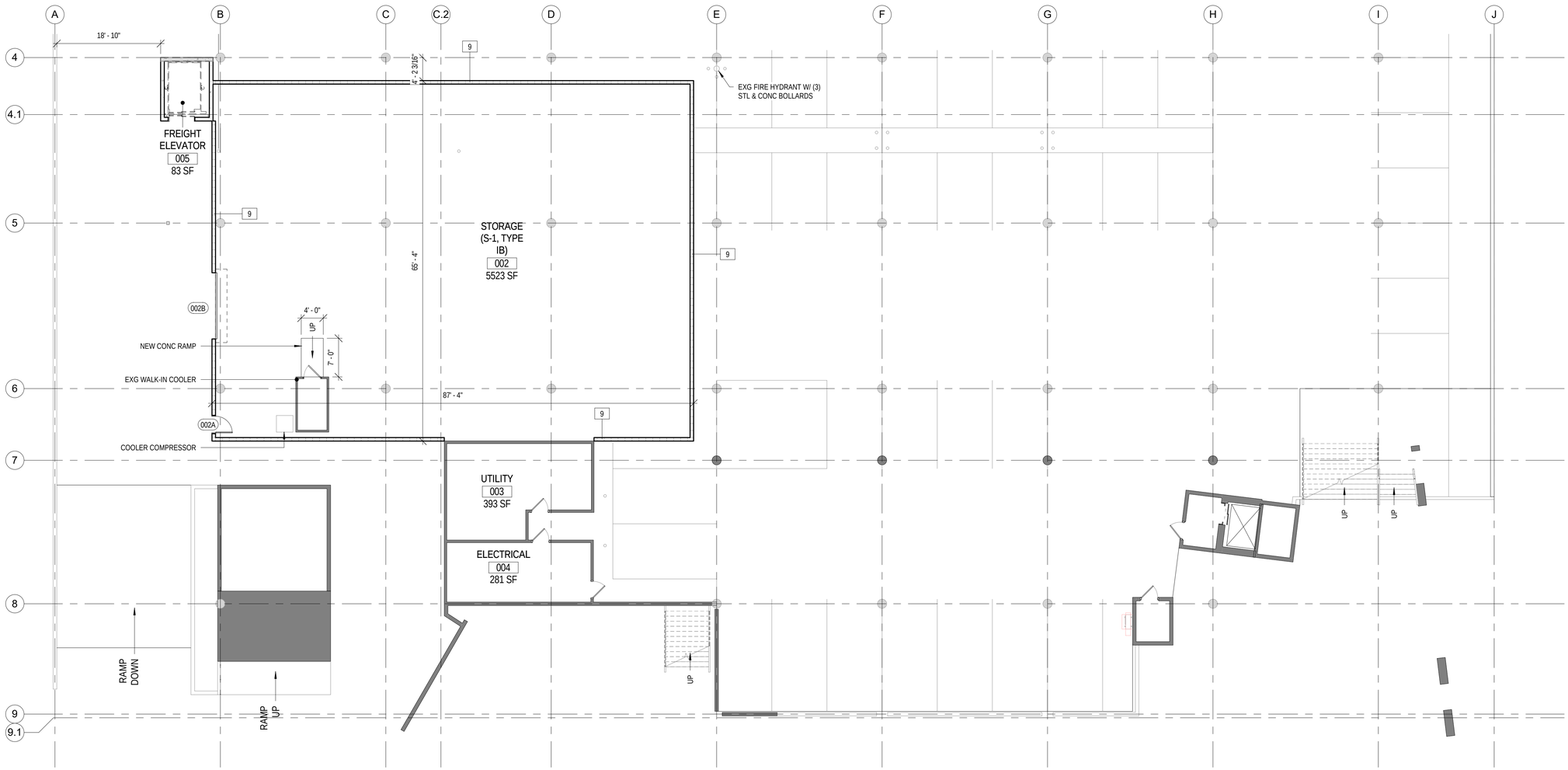

1 A102 PARKING LEVEL - SOUTH

0' 8' 16'

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

PARKING LEVEL PLAN

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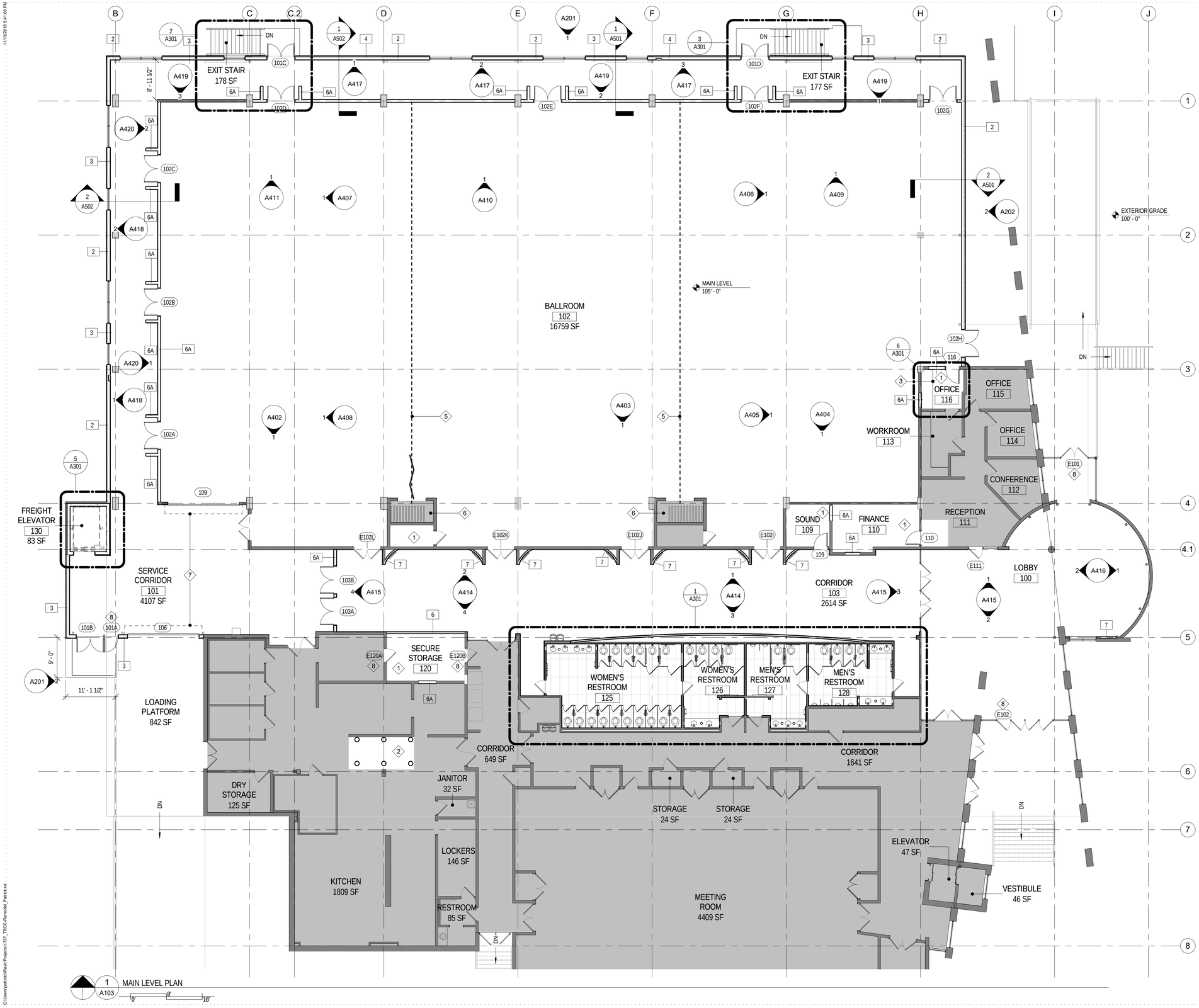

1 A103 MAIN LEVEL PLAN

0' 8' 16'

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING ITEM TO REMAIN
- NEW WALL
- NEW ITEM

GENERAL NEW CONSTRUCTION NOTES

1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUING CONSTRUCTION.
2. ITEMS NOT NOTED ON THE DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME MANNER.
3. PROVIDE TREATED SOLID WOOD BLOCKING FOR ALL WALL EQUIPMENT, TOILET ACCESSORIES, MILLWORK AND OTHER WALL MOUNTED ITEMS. SEE ELEVATIONS AND EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL CAULK AT THE INTERFACE OF INTERIOR FACES OF DOOR FRAMES WITH ADJACENT MATERIALS THOUGH JOINT MAY NOT BE VISIBLE.
5. WHERE EXISTING FINISHES ARE REQUIRED TO BE REMOVED TO INSTALL NEW FINISHES, PATCH AND REPAIR WALL SURFACES TO ACCEPT NEW FINISHES AND CONCEAL ALL TRANSITIONS.
6. MAINTAIN RATINGS OF EXISTING WALLS, PATCH AND REPAIR ANY NEW OR EXISTING OPENINGS IN RATED WALLS WITH UL ASSEMBLY APPROVED FOR PENETRATING ITEM AND WALL ASSEMBLY.
7. PROVIDE TRANSITION STRIPS BETWEEN FLOOR MATERIALS OF DISSIMILAR HEIGHTS. CENTER TRANSITION STRIPS UNDER DOORS OR OTHER PLACES OUT OF SIGHT.
8. NEW HM DOOR FRAMES SHALL MATCH EXISTING FOR PROFILE AND CONSTRUCTION.
9. RECONFIGURE SPRINKLER HEADS AS REQUIRED BY CODE.
10. RECONFIGURE FIRE ALARM DEVICES AS PER THE ELECTRICAL CODE OR AS INDICATED. PROVIDE NEW FIRE ALARM DEVICES IF EXISTING ARE NOT OPERATIONAL.
11. NEW RATED STUD WALLS ARE TO BE GA #WP 1072- 1HR RATED WITH 3-1/2" FIBERGLASS BATTS WITH A 47 STC.
12. FIELD VERIFY EXISTING CORRIDOR WALLS AND ROOM SEPARATION WALLS ARE 1HR RATED (WP 1072) WITH REQUIRED PENETRATION FIRESTOPPING. WHERE THESE WALLS DO NOT CURRENTLY MEET THE REQUIRED RATING MODIFY WALL TO MEET UL ASSEMBLY FOR 1HR WP 1072 OR EQUAL WITH SOUND BATTS.
13. FINISHES SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
14. DUE TO SLAB CONSTRUCTION REUSE EXISTING WASTE PIPING IN FLOOR. CAP ALL UNUSED WASTE PIPING AT OR BELOW FLOOR LEVEL SO THAT FLOOR FINISHES CAN BE INSTALLED.
15. MAIN STRUCTURE IS EXISTING AND THE CONFIGURATION OF THE SUPPORTING FOUNDATIONS ARE UNKNOWN. CONTRACTOR SHALL MAKE MODIFICATIONS AS NEEDED TO THE UNDERSLAB PLUMBING ROUTING TO MAINTAIN THE INTEGRITY OF THE STRUCTURE. ALL MODIFICATIONS THAT IMPACT THE LOCATION OF PLUMBING FIXTURES MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
16. PROVIDE POSITIVE SLOPE ON ALL FLOOR DRAINS, MINIMUM OF1/8" PER FOOT. SLOPE FLOOR ALL AROUND FROM ADJACENT WALLS TO FLOOR DRAINS, DO NOT DEPRESS ONLY THE AREA IMMEDIATELY AROUND THE DRAIN.
17. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR THE LOCATIONS OF PIPING, VENTS, DUCTS, CURBS, FANS AND OTHER ITEMS WHICH PENETRATE THE ROOF PLANE.
18. DOOR JAMB LOCATION OFF FACE OF WALL IS 4", TYPICAL, UNLESS NOTED OTHERWISE.

FLOOR PLAN KEY NOTES

1. PATCH, REPAIR & RE-PAINT WALLS. REPLACE ANY SEGMENTED WALL BASE SECTIONS (WHERE DOORS HAVE BEEN DEMOLISHED) WITH FULL RUNS
2. ELECTRICAL CEILING WORK, RE: ELEC
3. NEW PLAM COUNTERTOP W/ STL WALL SUPPORT BRACKETS
4. RELOCATED FORKLIFT BATTERY, RE: ELEC
5. EXG SPACE PARTITIONS, RE-COOVER W/ NEW FABRIC
6. EXG SPACE PARTITION CLOSETS
7. NEW OVERHEAD DOORS, RE: DOOR SCHD
8. ACCESS CONTROL HARDWARE, RE: DOOR SCHD

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

MAIN LEVEL PLAN

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PROJECT STATUS: 50%
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DRAWN BY: PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A103

PROJECT NO: 1727

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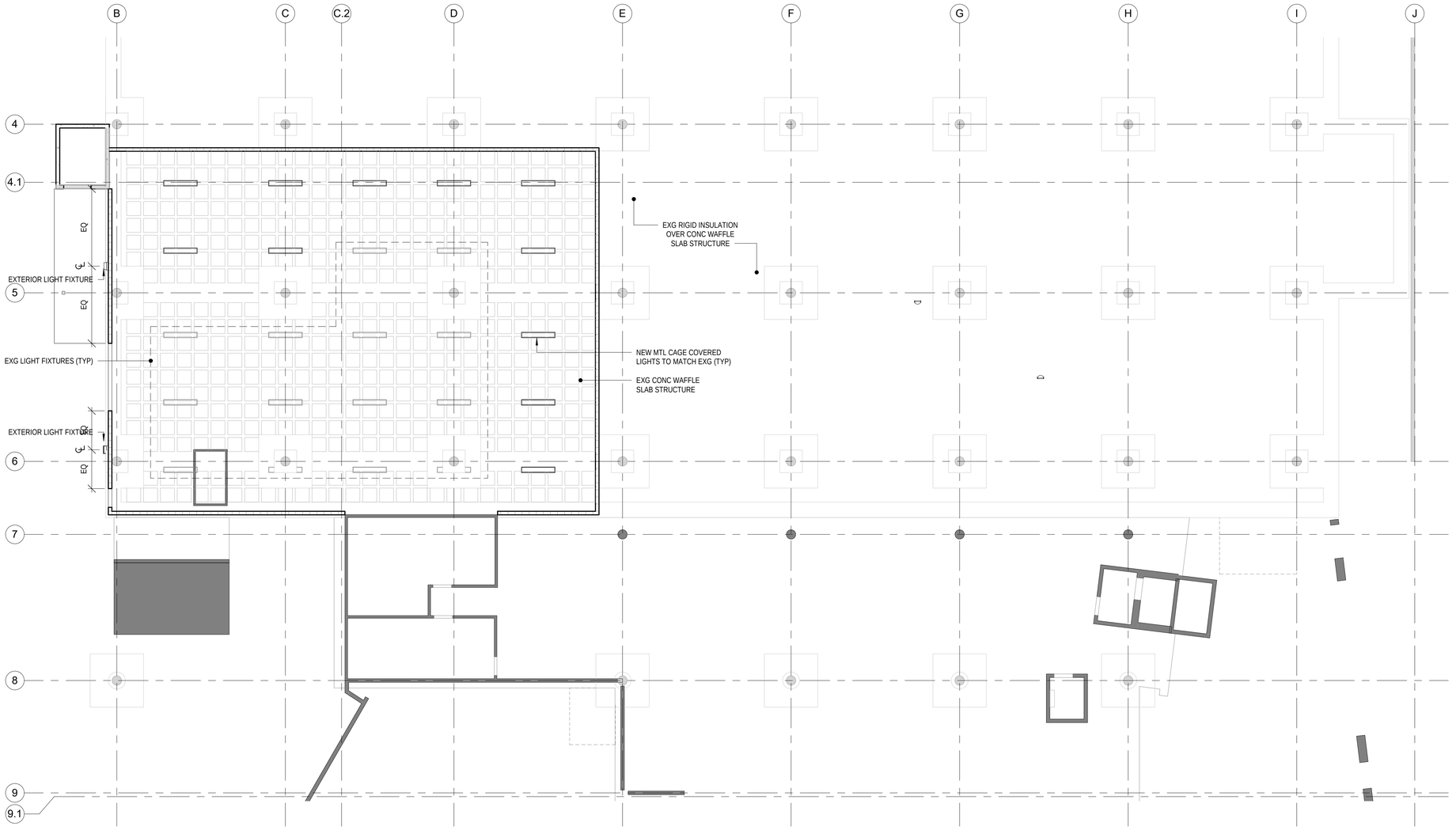

1 A121 PARKING LEVEL REFLECTED CEILING PLAN

0' 8' 16'

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P — CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S — CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

REFLECTED CEILING PLAN

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PROJECT STATUS: 50% CD

DRAWN BY: PH CHECKED BY: DG

DATE: **11/13/2018** SHEET NO: **A121**

PROJECT NO: **1727**

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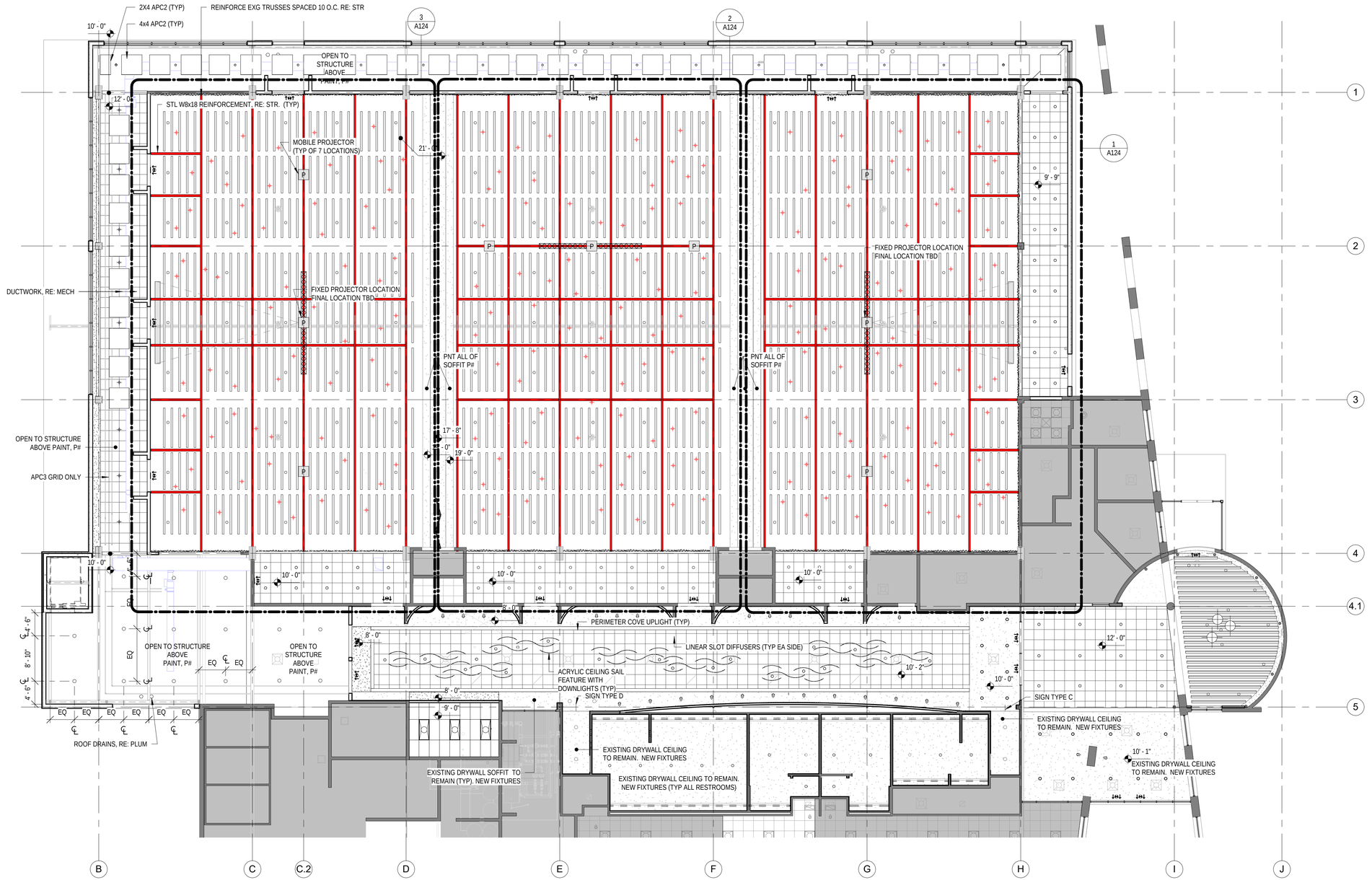

1 A122 MAIN LEVEL REFLECTED CEILING PLAN - NORTH

0' 8' 16'

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"). LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P — CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S — CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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GRAND JUNCTION, COLORADO

REFLECTED CEILING PLAN

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
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DRAWN BY: CS, PH CHECKED BY: DG

DATE: 11/13/2018 SHEET NO: A122

PROJECT NO: 1727

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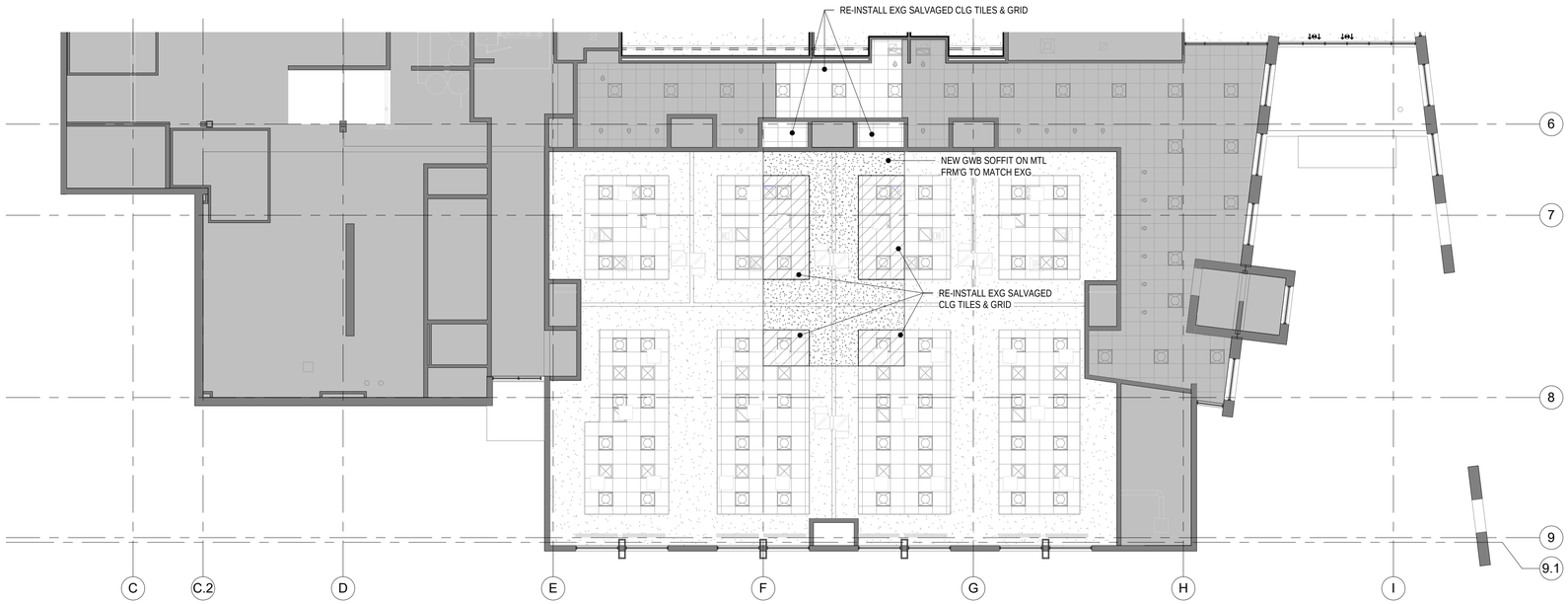

1 A123 MAIN LEVEL REFLECTED CEILING PLAN - SOUTH

0' 8' 16'

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"). LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
- 2'X4' RECESSED LIGHT, RE: ELEC
- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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GRAND JUNCTION, COLORADO

REFLECTED CEILING PLAN

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PROJECT STATUS: 50% CD

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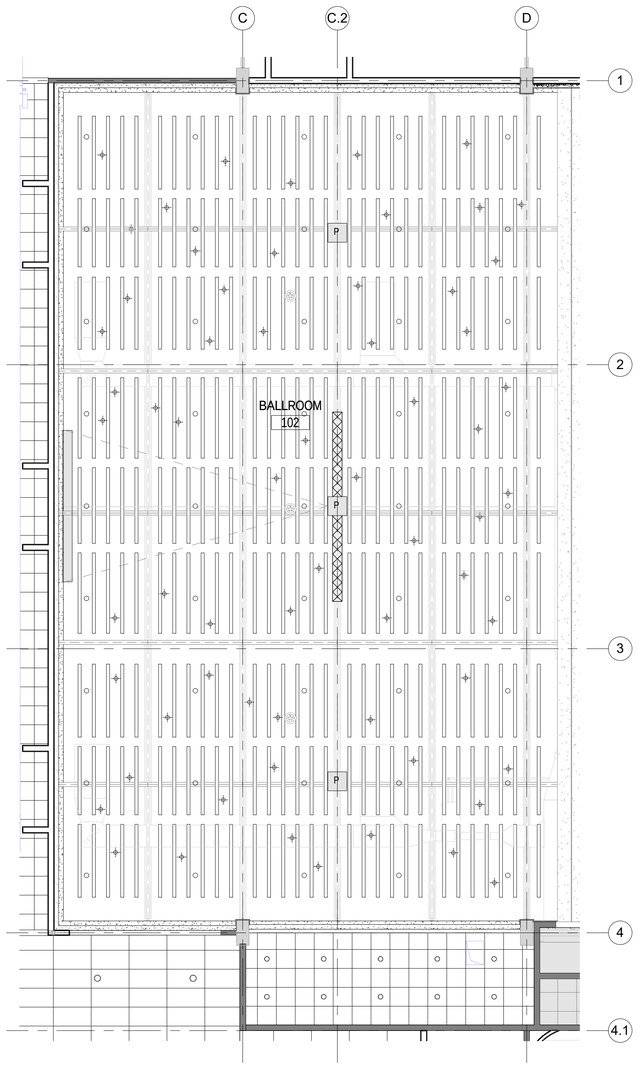
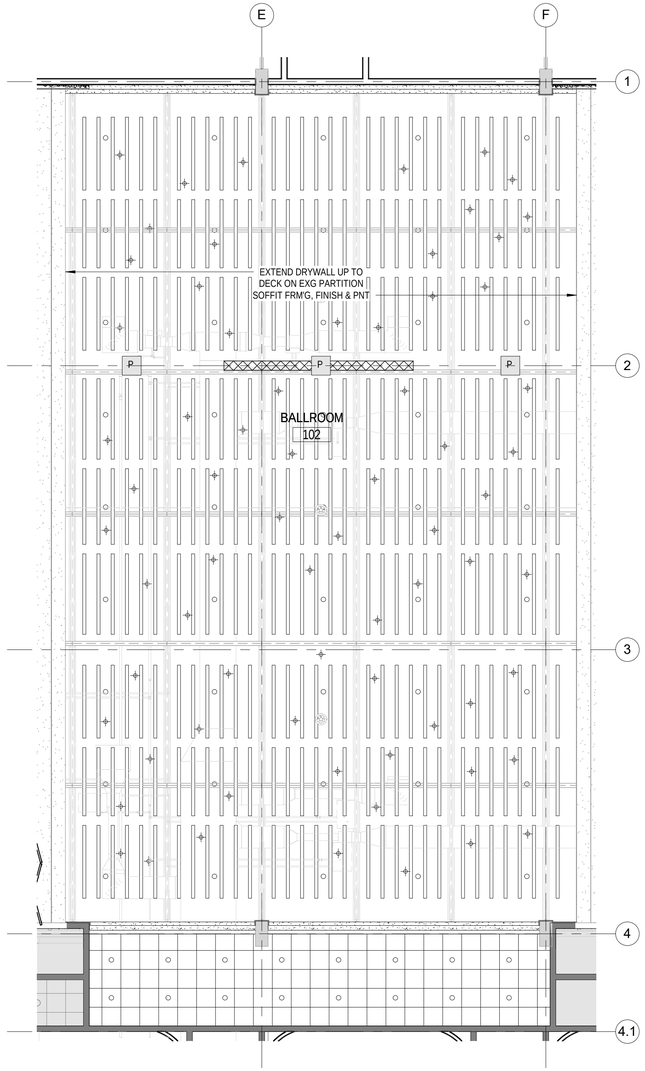


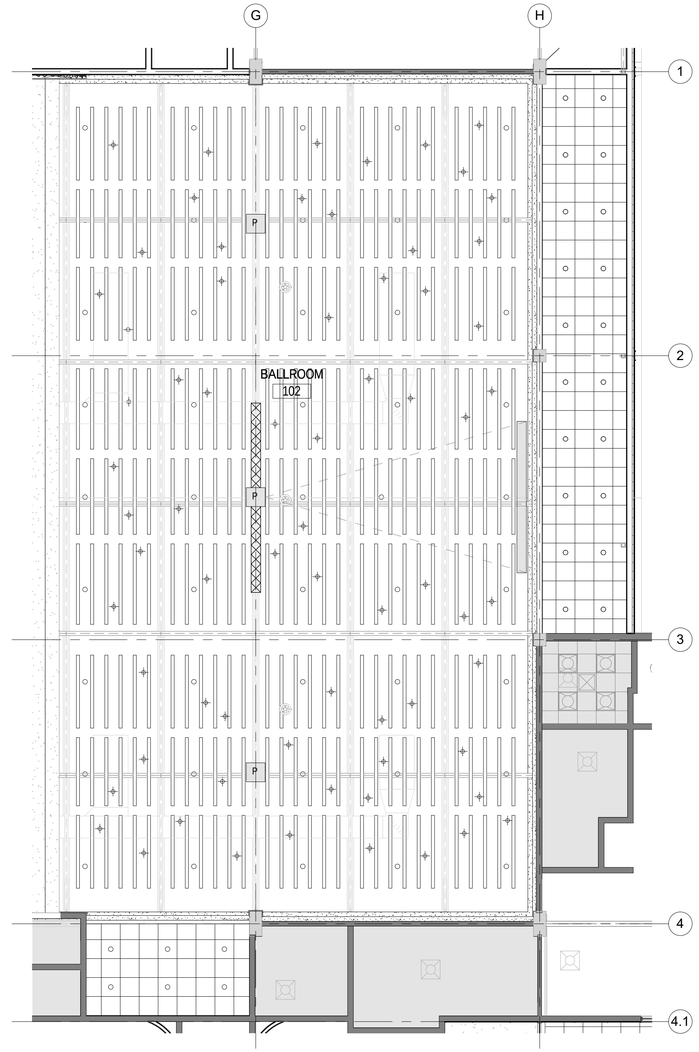
3 A124 ENLARGED RCP - BALLROOM 102 - COLORADO II

0' 4' 8'



2 A124 ENLARGED RCP - BALLROOM 102 - COLORADO I

0' 4' 8'



1 A124 ENLARGED RCP - BALLROOM 102 - GUNNISON

0' 4' 8'

LEGEND

- EXISTING GYP BD TO REMAIN, PAINT
- NEW GYP BD, PAINT
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 12"), LARGE SCALE IN BALLROOM. PAINT ALL ITEMS ABOVE P#
- WOOD LOOK METAL LINEAR BEAM CEILING (4" X 6"), SMALLER SCALE IN LOBBY
- 2X4 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- 2X2 SUSPENDED ACOUSTIC GRID. BALANCE TILE AND GRID AT EDGES IN ROOMS, UNO.
- DOWNLIGHT,RE: ELEC
- DOWNLIGHT WITH GLASS DROP TRIM RING, RE: ELEC
- DIRECTIONAL AND ADJUSTABLE DOWNLIGHT / ART LIGHT,RE: ELEC
- MINI PENDANT, RE: ELEC
- 2'X2' RECESSED LIGHT, RE: ELEC
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- PENDANT, RE: ELEC
- SUPPLY AIR GRILLE, RE: MECH
- EXHAUST FAN, RE: MECH
- RETURN AIR GRILLE, RE: MECH
- EXIT SIGN, INDICATING DIRECTIONAL ARROW & SIGN ORIENTATION, RE: ELEC
- OCCUPANCY SENSOR, RE: ELEC

NOTE:
CENTER LIGHT FIXTURES IN SPACE AS SHOWN ON REFLECTED CEILING PLANS WHEN LIGHT FIXTURES ARE NOT DIMENSIONED. (TYP)

- SMOKE DETECTOR, RE ELEC
- P — CEILING MOUNTED PROJECTOR, POWER AND HDMI AT EACH LOCATION, MOBILE AND FIXED. HDMI CABLE BACK TO AV ROOM
- S — CEILING MOUNTED SPEAKER LOCATIONS TBD

PROVIDE 20' MOBILE LIGHT TRUSS WITH MOVEABLE MOTORIZED HOIST. ONE TRUSS AND HOIST WILL MOVE TO 3 DIFFERENT LOCATIONS. AT EACH LOCATION PROVIDE 2, 20 AMP, CIRCUITS FOR LIGHTING AND A SEPERATE HOIST CONNECTION. PROVIDE DMX CABLING WITH EXTRA CABLE TO EXTEND TO FLOOR.

MICROPHONE ANTENNA LOCATIONS TBD

DRAPERY, RE: INTERIOR ELEVATIONS

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

ENLARGED REFLECTED CEILING PLAN

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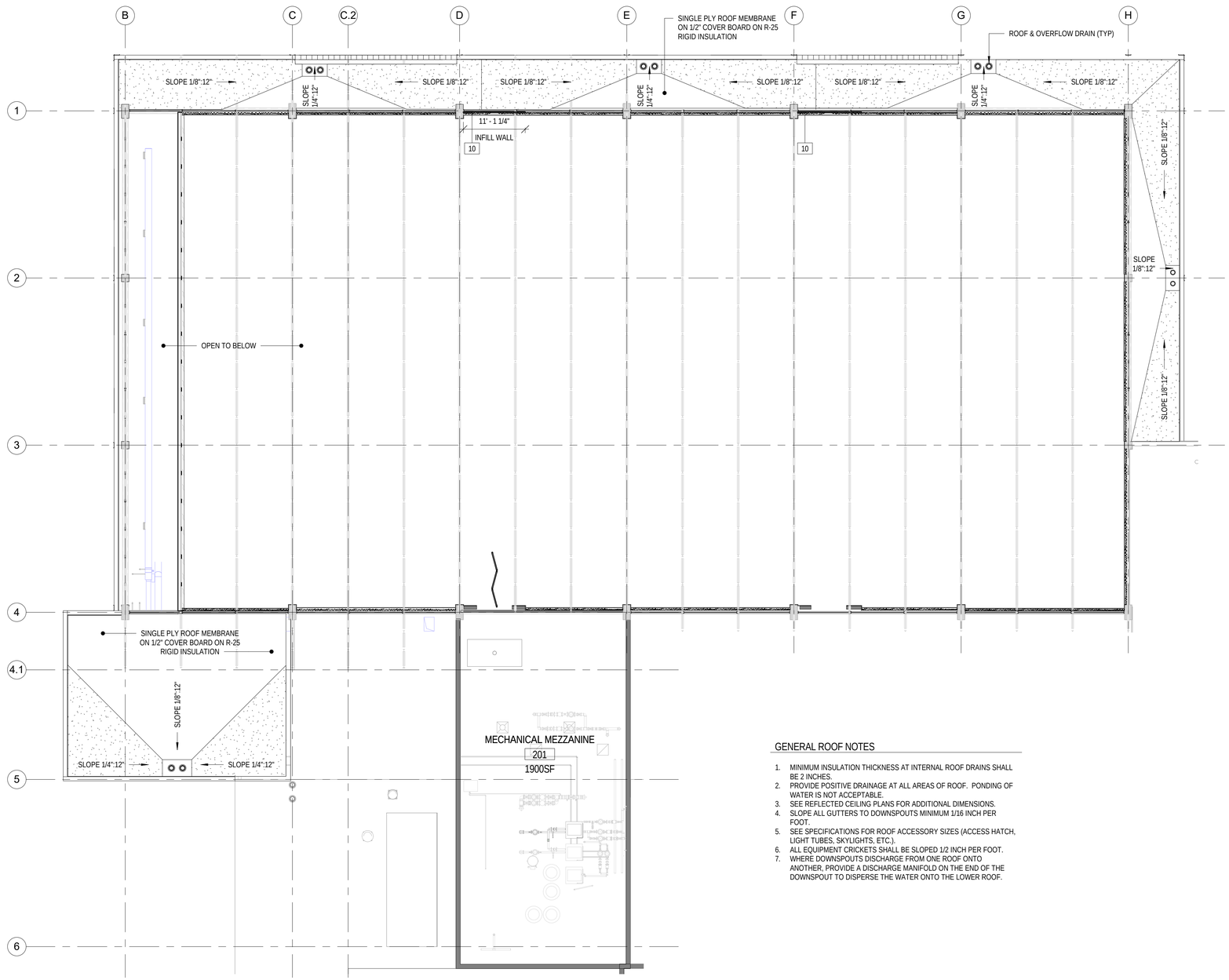

GENERAL ROOF NOTES

1. MINIMUM INSULATION THICKNESS AT INTERNAL ROOF DRAINS SHALL BE 2 INCHES.
2. PROVIDE POSITIVE DRAINAGE AT ALL AREAS OF ROOF. PONDING OF WATER IS NOT ACCEPTABLE.
3. SEE REFLECTED CEILING PLANS FOR ADDITIONAL DIMENSIONS.
4. SLOPE ALL GUTTERS TO DOWNSPOUTS MINIMUM 1/16 INCH PER FOOT.
5. SEE SPECIFICATIONS FOR ROOF ACCESSORY SIZES (ACCESS HATCH, LIGHT TUBES, SKYLIGHTS, ETC.).
6. ALL EQUIPMENT CRICKETS SHALL BE SLOPED 1/2 INCH PER FOOT.
7. WHERE DOWNSPOUTS DISCHARGE FROM ONE ROOF ONTO ANOTHER, PROVIDE A DISCHARGE MANIFOLD ON THE END OF THE DOWNSPOUT TO DISPERSE THE WATER ONTO THE LOWER ROOF.

1 / A141 ROOF PLAN - LOW

0' 8' 16'

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ROOF PLAN

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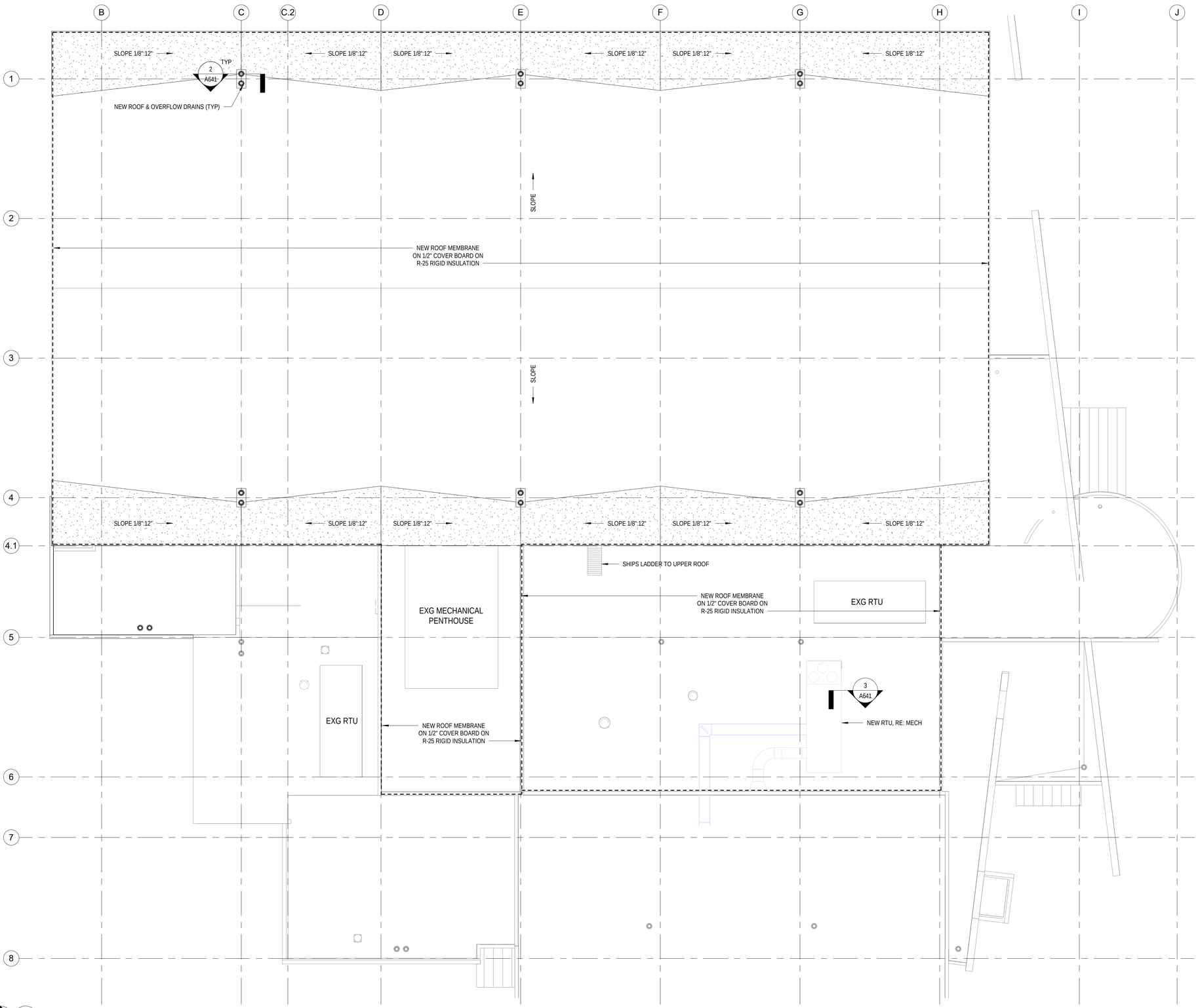

1 A142 ROOF PLAN - HIGH

0' 8' 16'

GENERAL ROOF NOTES

1. MINIMUM INSULATION THICKNESS AT INTERNAL ROOF DRAINS SHALL BE 2 INCHES.
2. PROVIDE POSITIVE DRAINAGE AT ALL AREAS OF ROOF. PONDING OF WATER IS NOT ACCEPTABLE.
3. SEE REFLECTED CEILING PLANS FOR ADDITIONAL DIMENSIONS.
4. SLOPE ALL GUTTERS TO DOWNSPOUTS MINIMUM 1/16 INCH PER FOOT.
5. SEE SPECIFICATIONS FOR ROOF ACCESSORY SIZES (ACCESS HATCH, LIGHT TUBES, SKYLIGHTS, ETC.).
6. ALL EQUIPMENT CRICKETS SHALL BE SLOPED 1/2 INCH PER FOOT.
7. WHERE DOWNSPOUTS DISCHARGE FROM ONE ROOF ONTO ANOTHER, PROVIDE A DISCHARGE MANIFOLD ON THE END OF THE DOWNSPOUT TO DISPERSE THE WATER ONTO THE LOWER ROOF.

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1 A161 MAIN LEVEL FINISH PLAN

0' 8' 16'

P1 / SAT / CPT1 / WD / 1,2 / P1 / DH

- WALL FINISH (NORTH, SOUTH, EAST, WEST)
- CEILING FINISH
- FLOOR FINISH
- BASE FINISH
- FINISH NOTES

NOTE:

COLORS, RE: INTERIOR COLOR SCHEDULE A741

PATTERN AT WALLS, RE: INTERIOR ELEVATIONS A401-A420

PATTERN AT CEILINGS, RE: REFLECTED CEILING PLAN A121

FLOOR FINISH TRANSITIONS, RE: A701

WALL FINISHES

P# - CMU OR GYPSUM WALLBOARD W/ PAINT

HWC - HIGH IMPACT WALL COVERING WITH CRASH RAIL AT TOP AND BOTTOM

AF# - ACOUSTICAL FABRIC DRAPE. RE: INTERIOR ELEVATIONS

PLAM - WALL MOUNTED PLASTIC LAMINATE PANEL

WD - WOOD WALL MOUNTED PANEL, 1/2" THICK PLYWOOD WITH WOOD VENEER AND 1X WD TRIM

T# - TILE

EXG - EXISTING WALL FINISH TO REMAIN

CEILING FINISH

APC# - SUSPENDED ACOUSTICAL PANEL CEILING GRID AND TILE

P# - GYPSUM WALLBOARD WITH PAINT

OTS - OPEN TO STRUCTURE, PAINT P#

LM# - LINEAR METAL CEILING W/ WOOD LOOK FINISH

EXG - EXISTING CEILING FINISH TO REMAIN

FLOOR FINISHES

CONC - SEALED CONCRETE

CPT# - CARPET FLOOR TILE

T# - TILE

PCONC - REFINISH EXISTING POLISHED CONCRETE FLOOR

BASE FINISHES

T# - TILE BASE

RUB# - RUBBER BASE

- CORNER GUARD

- ENDWALL GUARD

FINISH NOTES

1. RECOVER EXISTING OPERABLE PARTITIONS WITH NEW FABRIC.
2. ADD ALTERNATE 2: ADD WD WALL PANELS TO BALLROOM FROM 6" AFF TO 10' AFF.
3. USE EPOXY PAINT IN DAMP/WET AREAS & SERVICE CORRIDOR.
4. PATCH AND REPAIR EXISTING MATERIALS TO REMAIN AS NEEDED FOR A FINISHED ROOM.
5. ADD ALTERNATE 3: PROVIDE PLASTIC LAMINATE PANELS IN THE BALLROOM FROM 6" AFF TO 10' AFF. PROVIDE PLASTIC LAMINATE WALL PANELS IN CORRIDOR 103 INSTEAD OF WOOD PANELS.
6. CARPET KEY:
   - HN840
   - HN850
   - HN810

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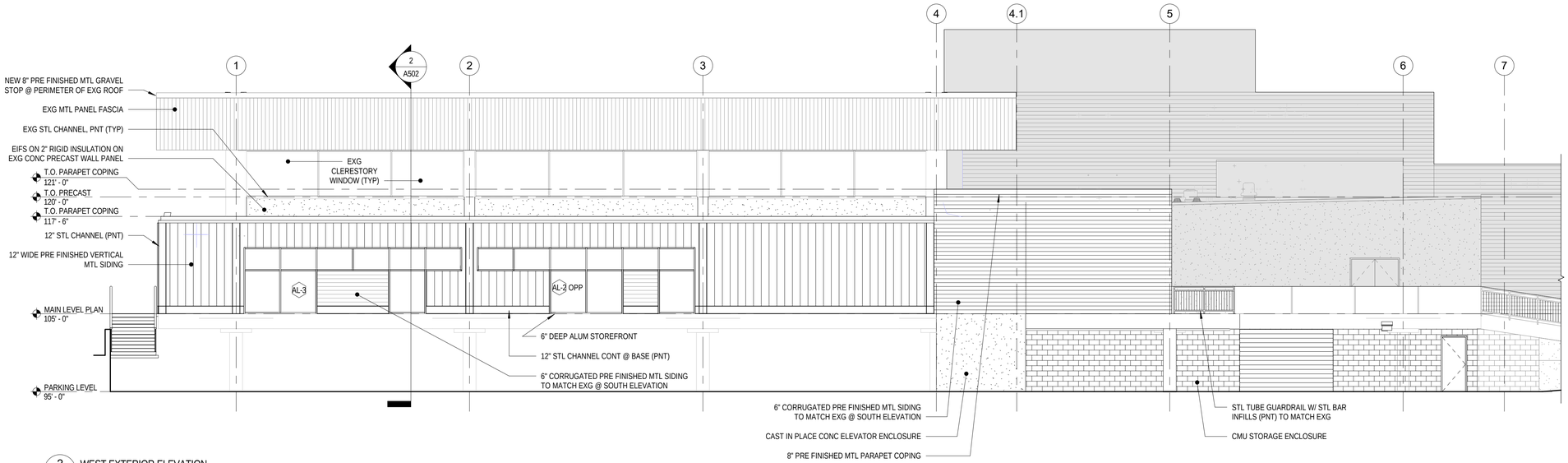
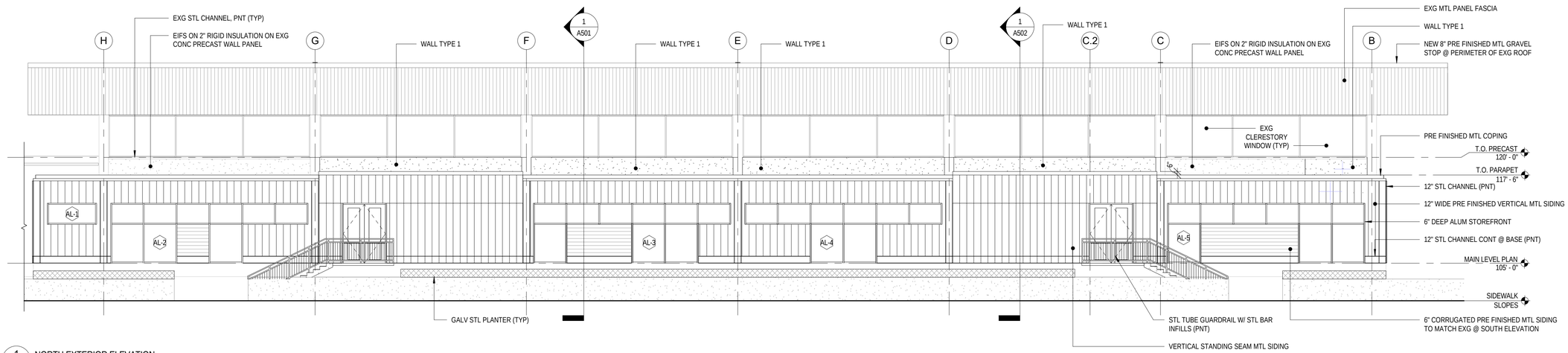


2 A201 WEST EXTERIOR ELEVATION

0' 4' 8'



1 A201 NORTH EXTERIOR ELEVATION

0' 4' 8'

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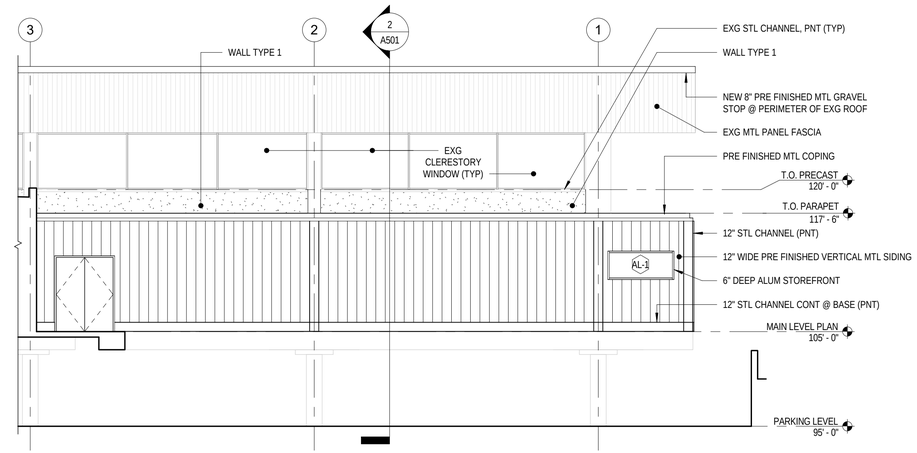
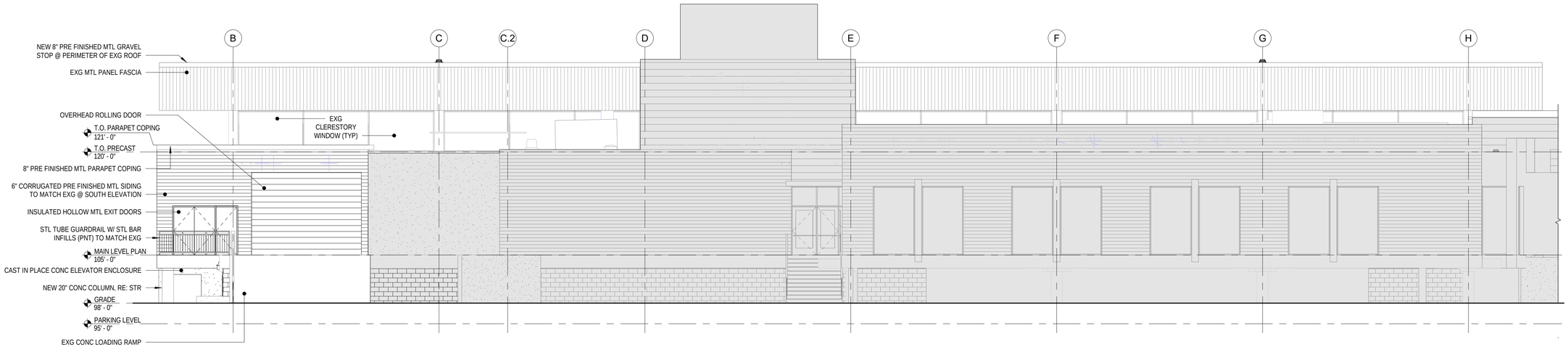


2 A202 EAST EXTERIOR ELEVATION

0' 4' 8'



1 A202 SOUTH EXTERIOR ELEVATION

0' 4' 8'

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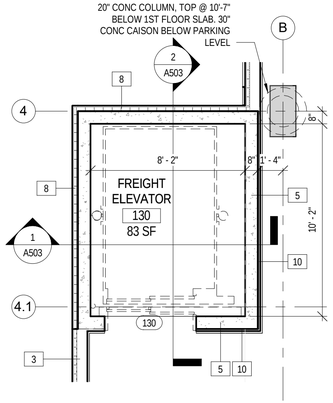
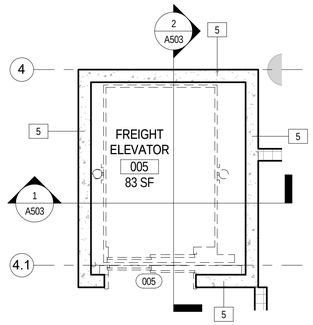
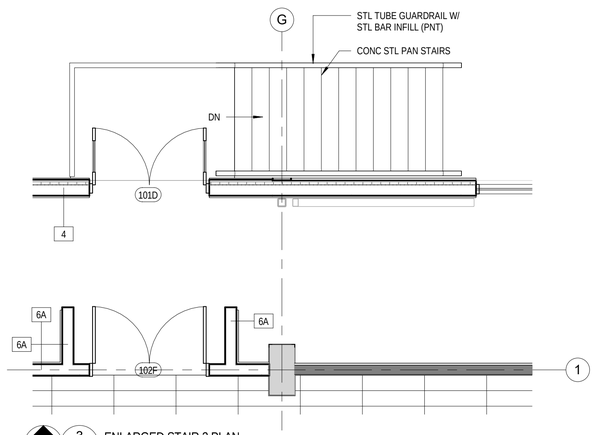


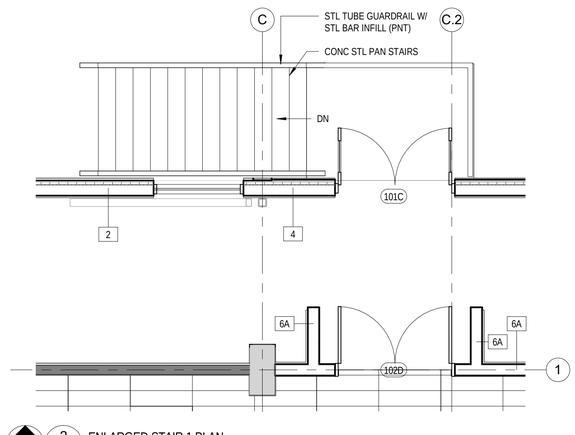
5 A301 ENLARGED FREIGHT ELEVATOR MAIN FLOOR PLAN



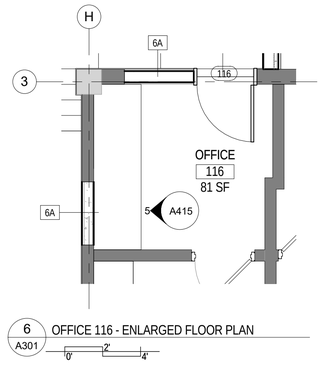
4 A301 ENLARGED FREIGHT ELEVATOR PARKING LEVEL



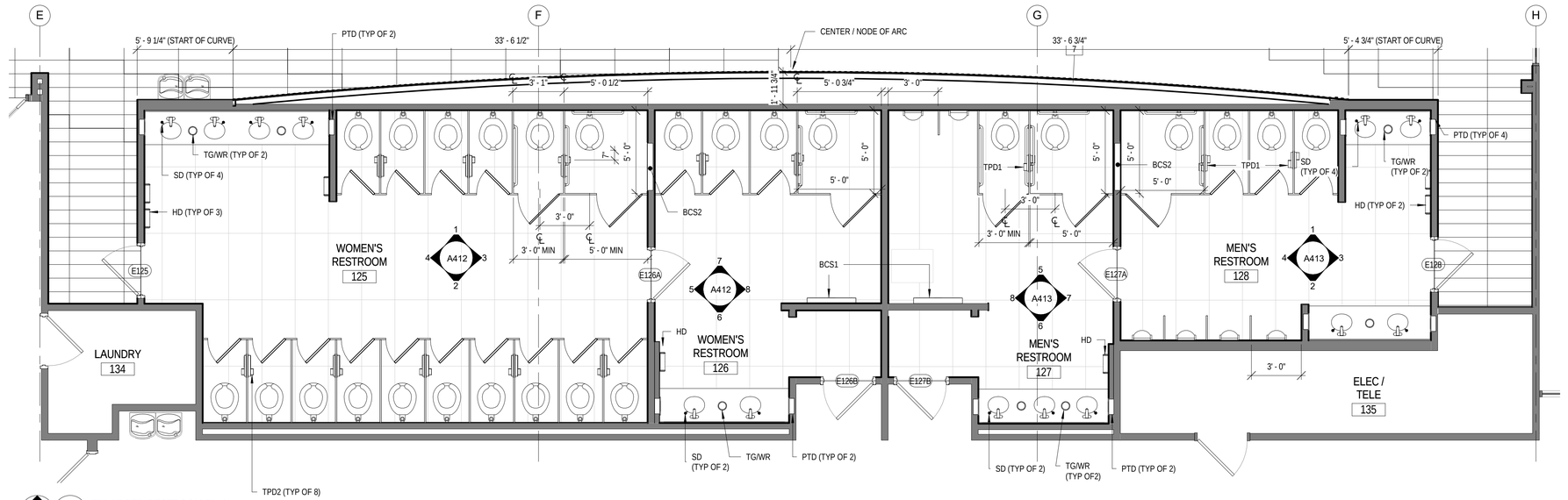
3 A301 ENLARGED STAIR 2 PLAN



2 A301 ENLARGED STAIR 1 PLAN



6 A301 OFFICE 116 - ENLARGED FLOOR PLAN



1 A301 ENLARGED RESTROOM PLAN

NOTE: EXISTING PLUMBING FIXTURES ARE BEING REPLACED WITH NEW PLUMBING FIXTURES IN THE SAME LOCATION. VERIFY IN FIELD EXISTING FIXTURES LOCATIONS FOR NEW PARTITION LAYOUT.

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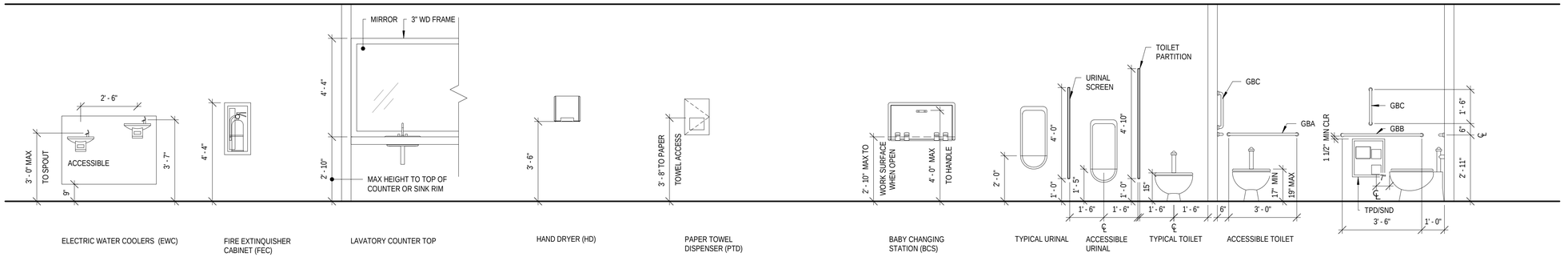
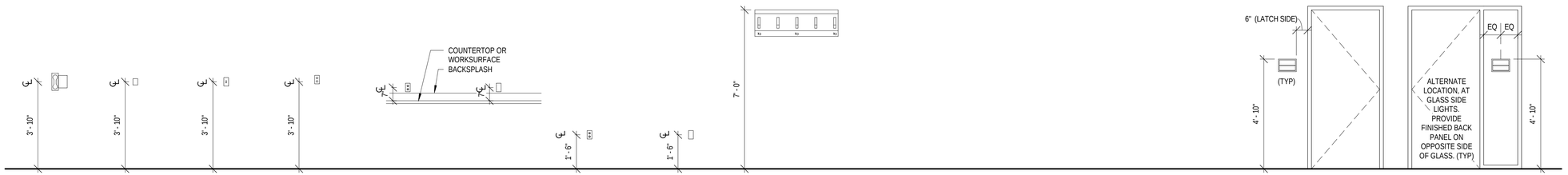


ELECTRIC WATER COOLERS (EWC) | FIRE EXTINQUISHER CABINET (FEC) | LAVATORY COUNTER TOP | HAND DRYER (HD) | PAPER TOWEL DISPENSER (PTD) | BABY CHANGING STATION (BCS) | TYPICAL URINAL | ACCESSIBLE URINAL | TYPICAL TOILET | ACCESSIBLE TOILET



WALL MOUNTED TELEPHONE (T) | THERMOSTAT (TSTAT) | LIGHT SWICH | ELEVATOR CALL BUTTON | DUPLEX OUTLET AC | VOICE/ DATA OUTLET AC | DUPLEX OUTLET | VOICE/ DATA OUTLET | MOP SHELF | SIGNAGE

1 A401 TYPICAL ELEVATION HEIGHTS

0' 2' 4'

NOTE: PROVIDE TREATED WOOD BLOCKING AT ALL WALL MOUNTED ACCESSORIES

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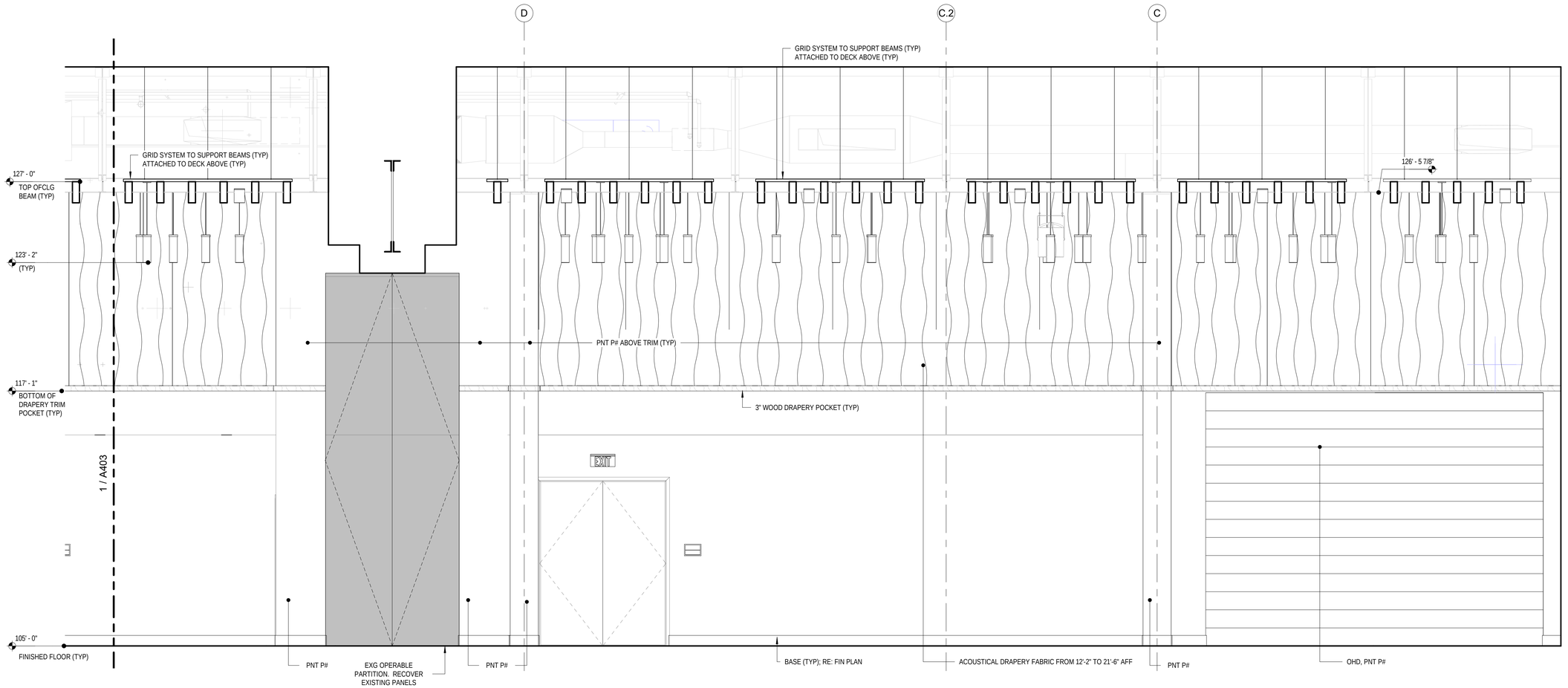

1 / A402 BALLROOM 102 - SOUTH IE - WEST

0' 2' 4'

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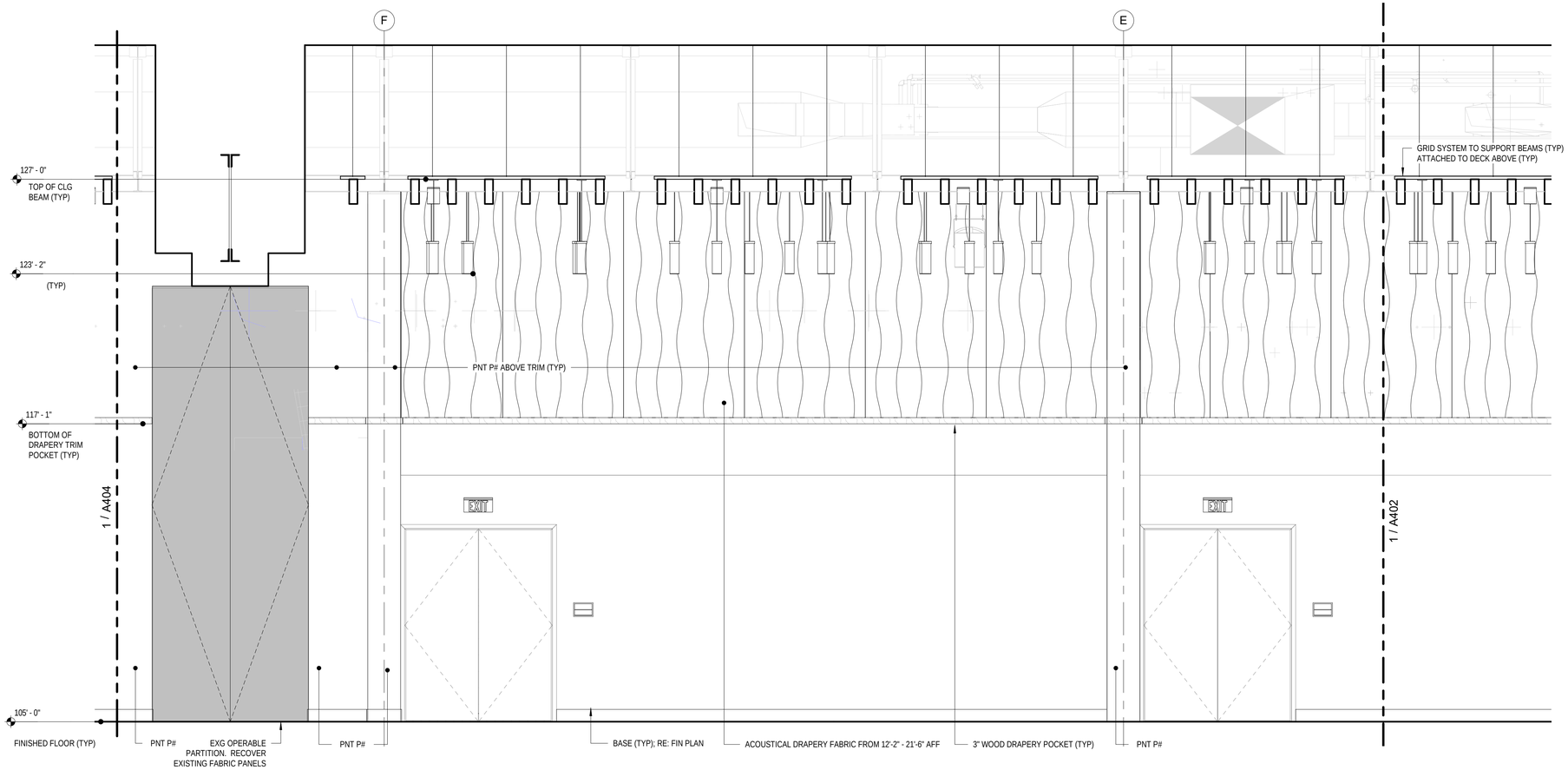

1 / A403 BALLROOM 102 - SOUTH IE - CENTER

0' 2' 4'

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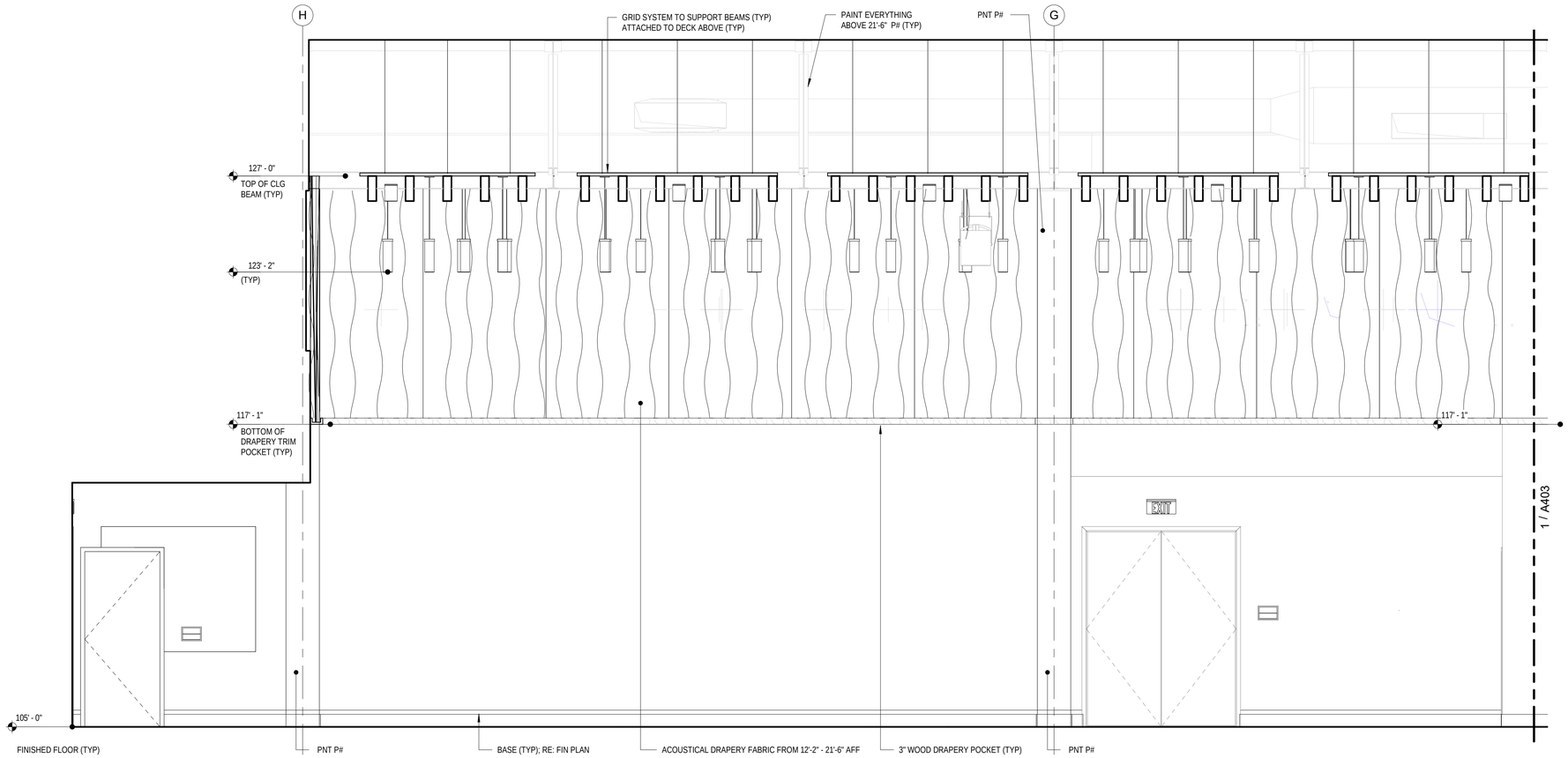

1 / A404 BALLROOM 102 - SOUTH IE - EAST

0' 2' 4'

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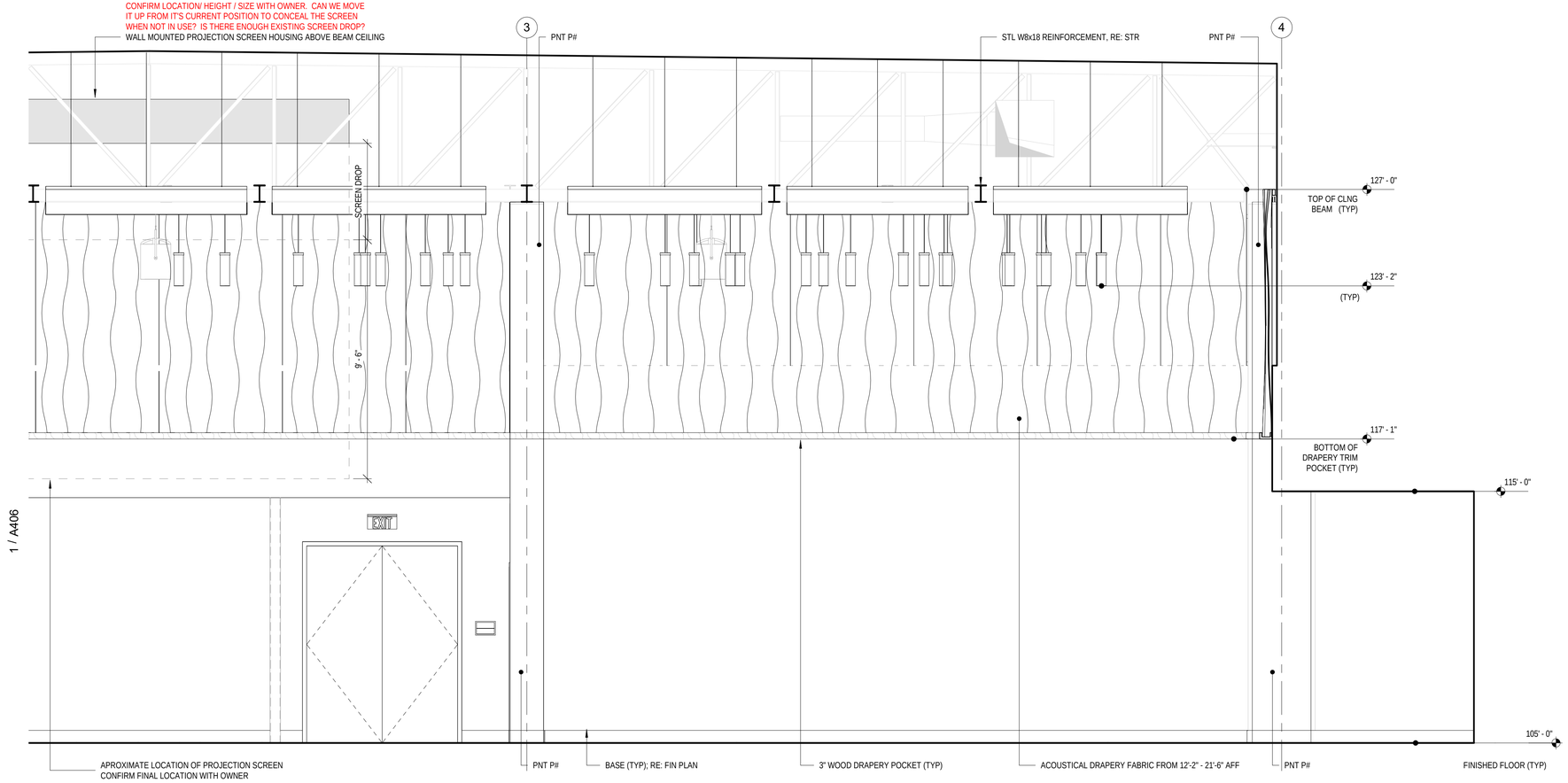

1 / A405 BALLROOM 102 - EAST IE - SOUTH

0' 2' 4'

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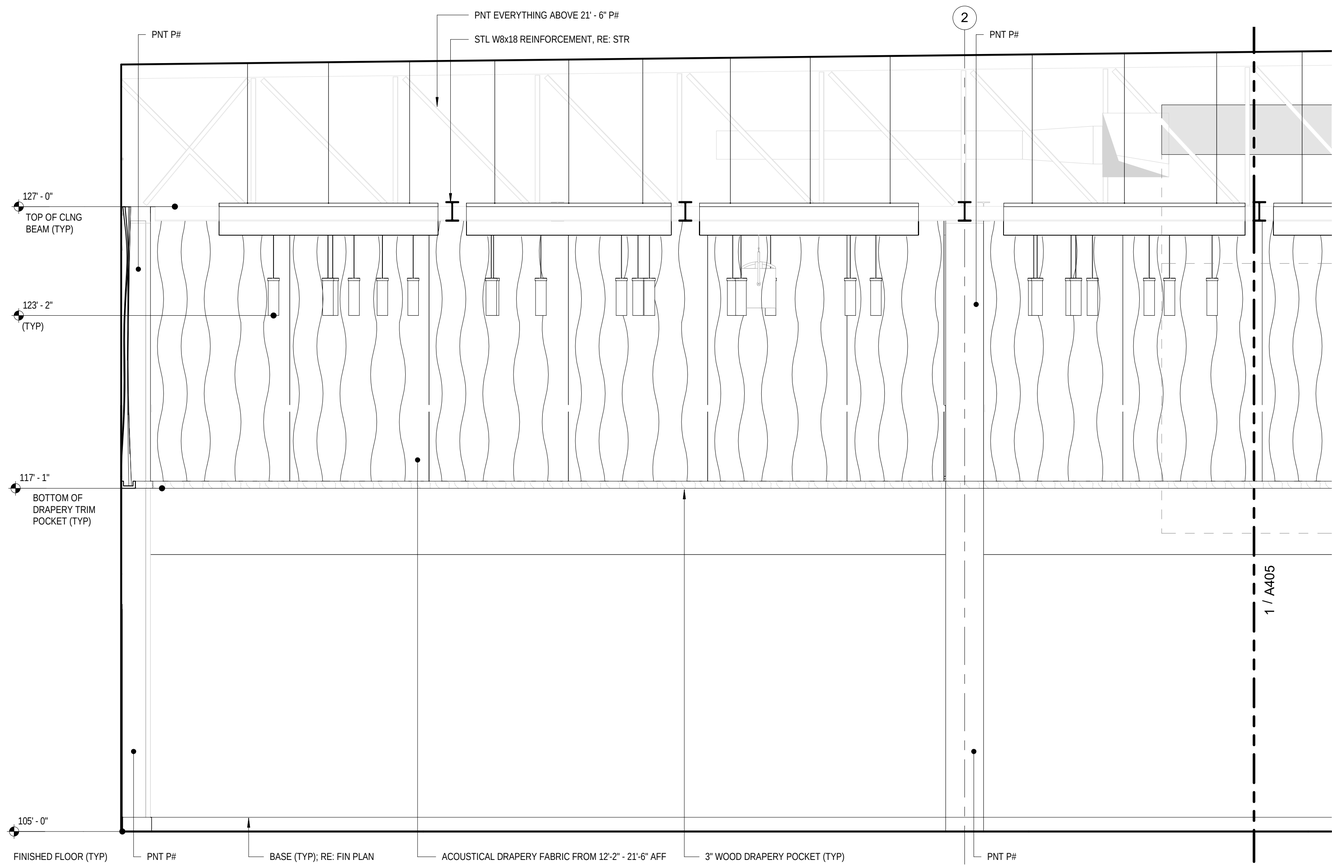

1 / A406 BALLROOM 102 - EAST IE - NORTH

0' 2' 4'

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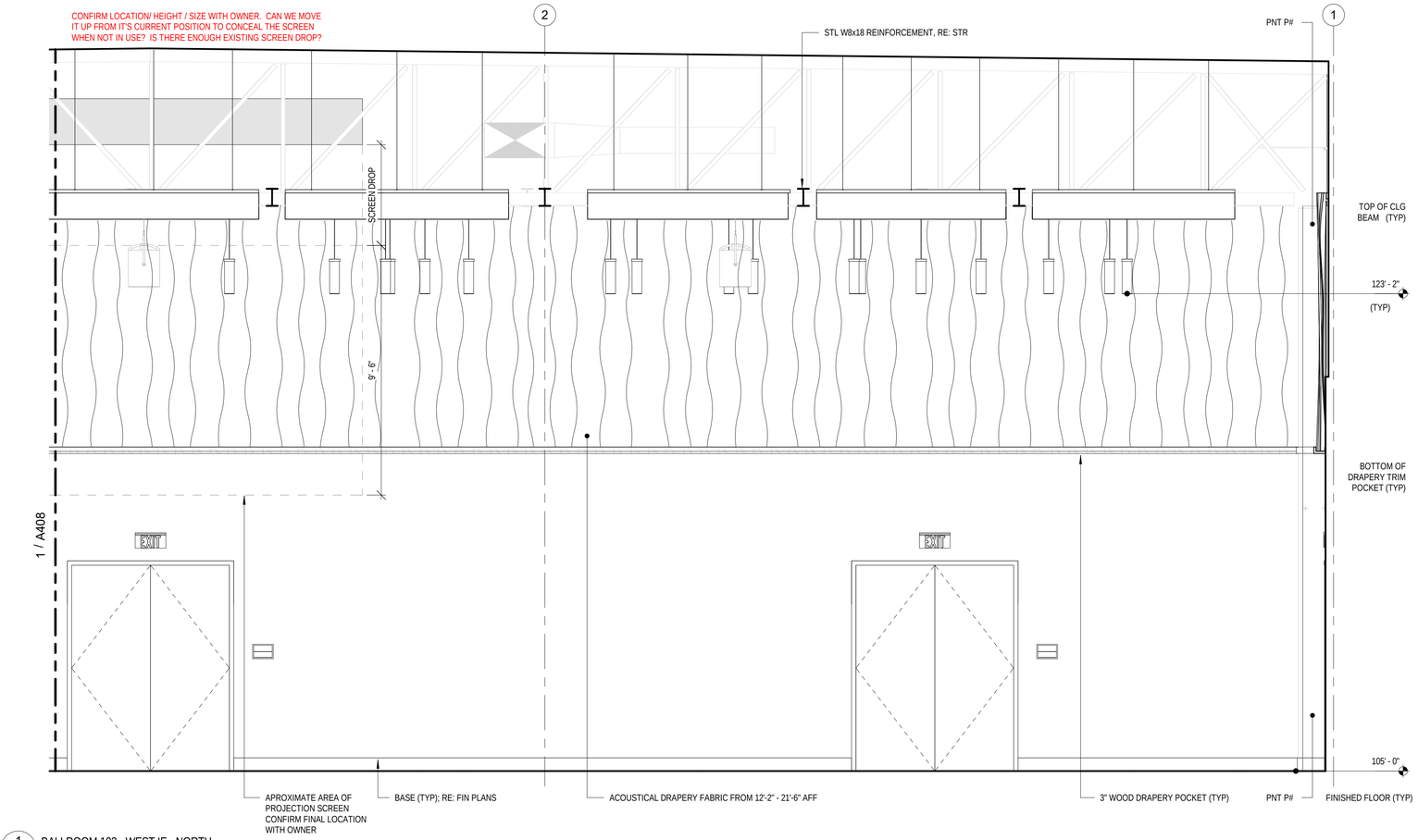

1 / A407 BALLROOM 102 - WEST IE - NORTH

0' 2' 4'

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GRAND JUNCTION, COLORADO

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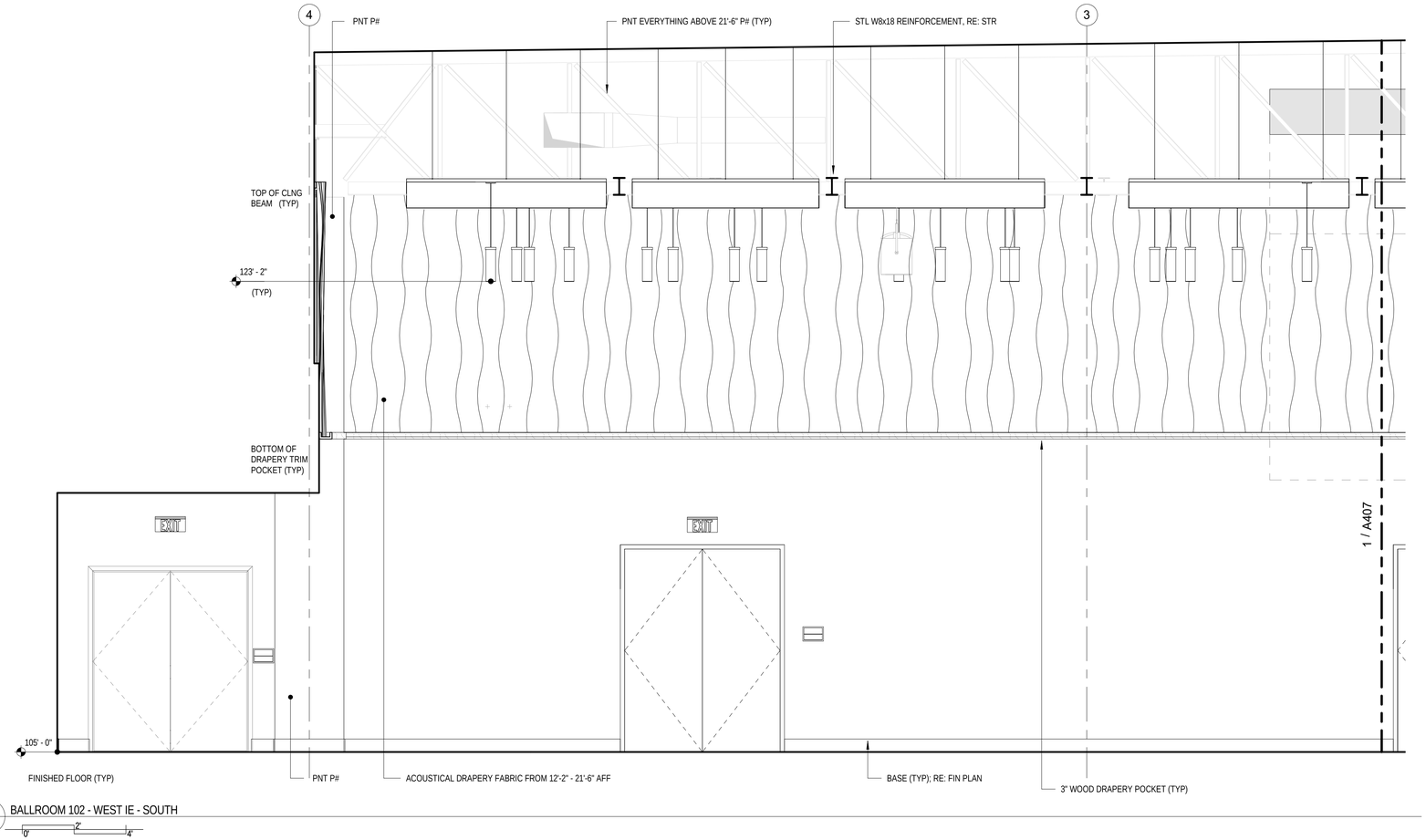

1 / A408 BALLROOM 102 - WEST IE - SOUTH

0' 2' 4'

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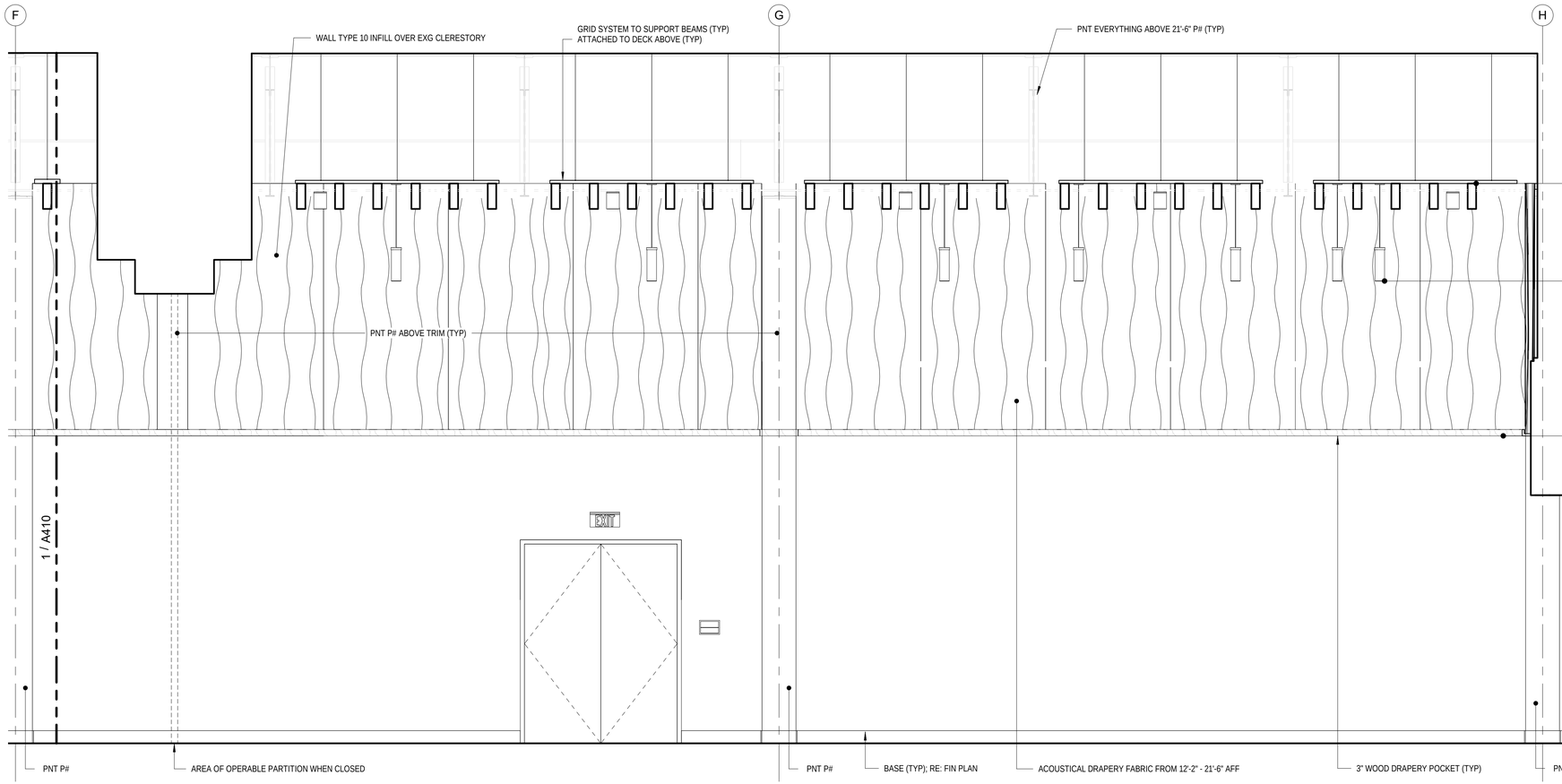

1 / A409 BALLROOM 102 - NORTH IE - EAST

0' 2' 4'

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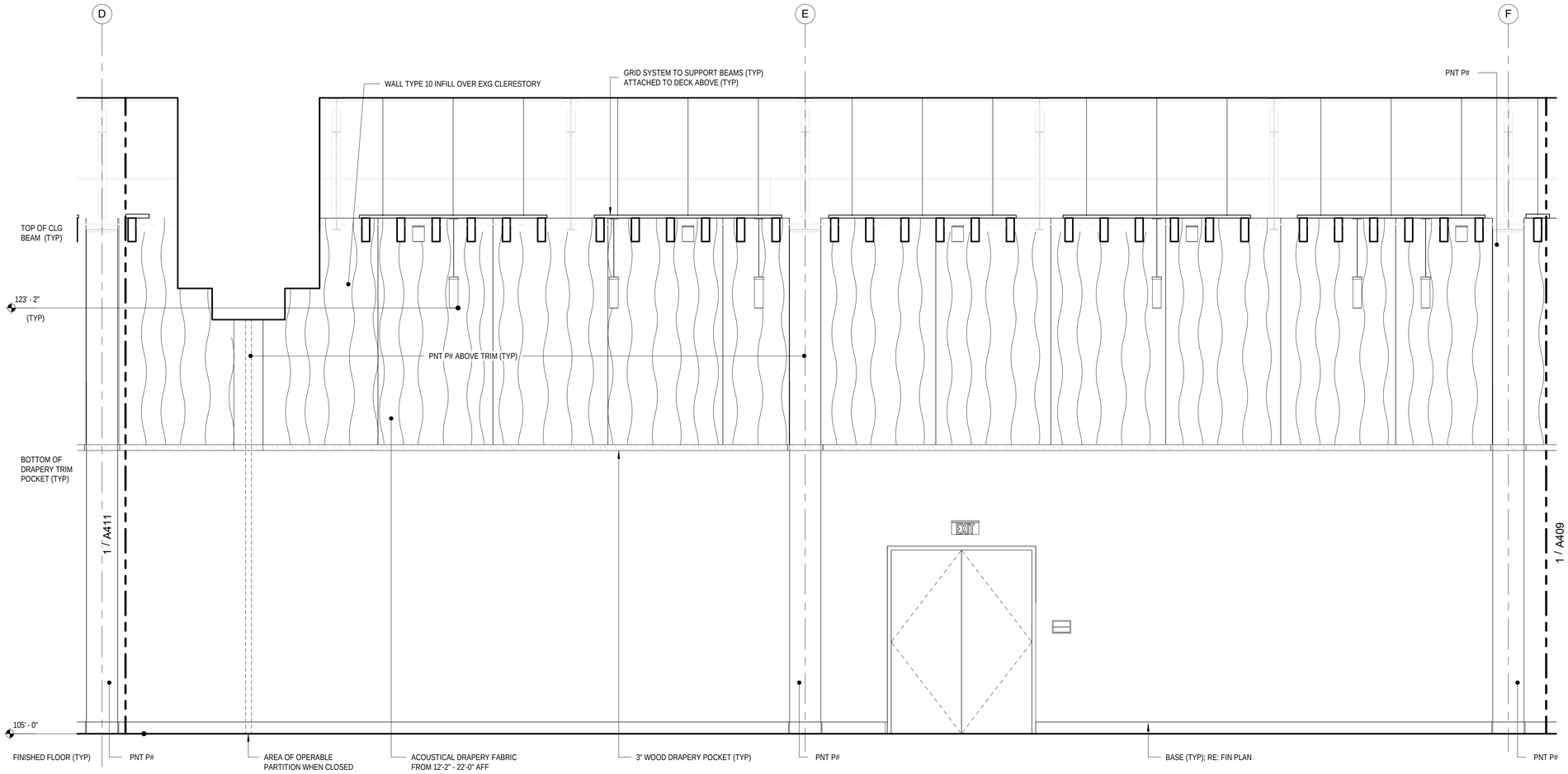

1 / A410 BALLROOM 102 - NORTH IE - CENTER

0' 2' 4'

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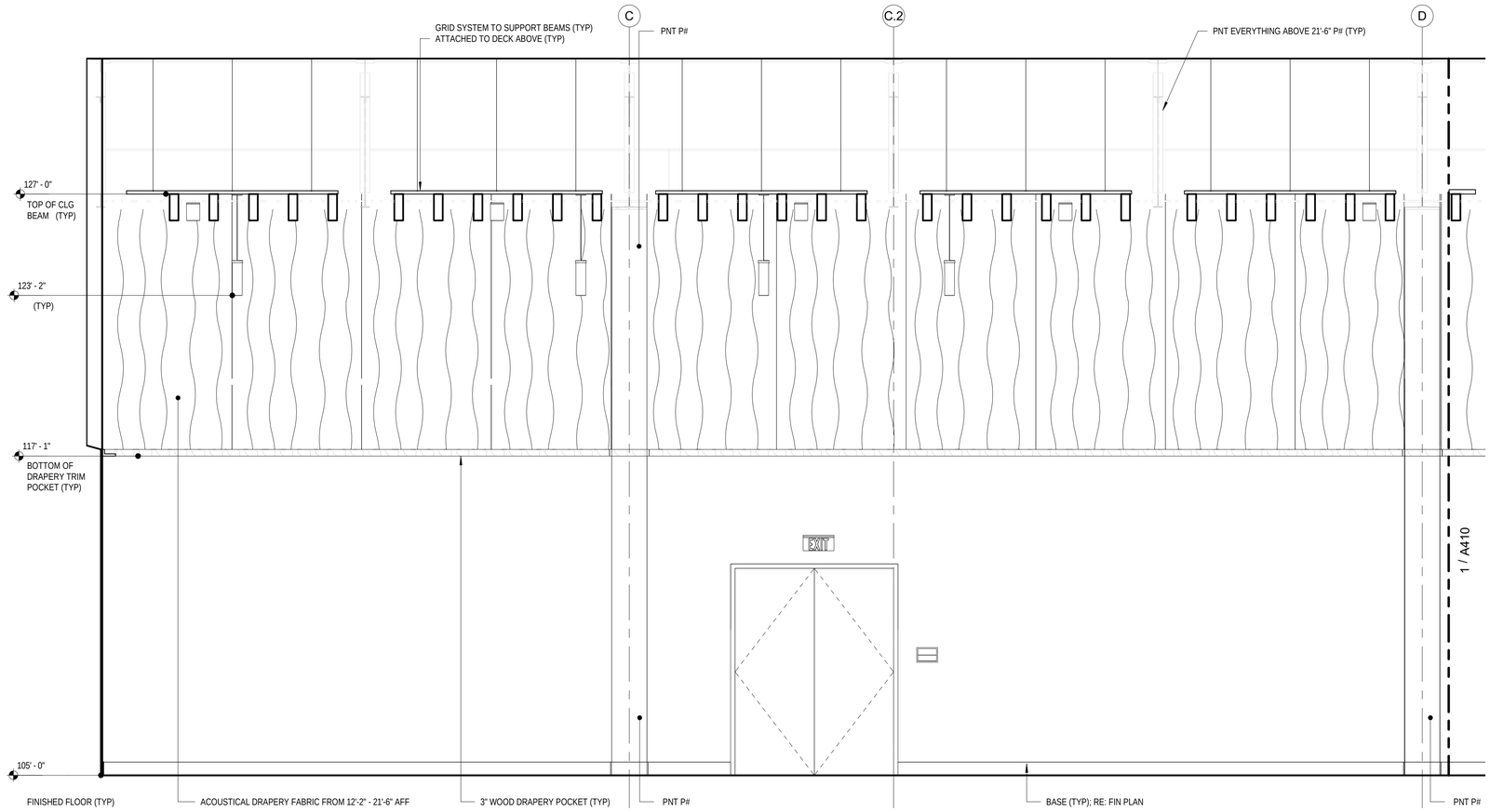

1 / A411 BALLROOM 102 - NORTH IE - WEST

0' 2' 4'

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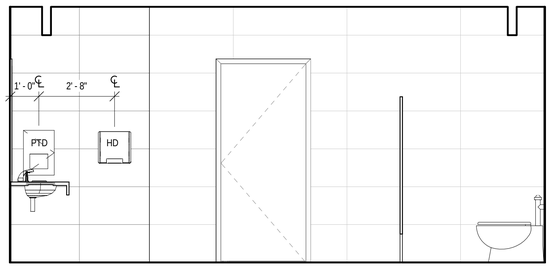
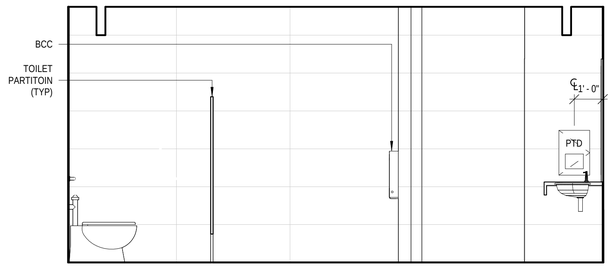


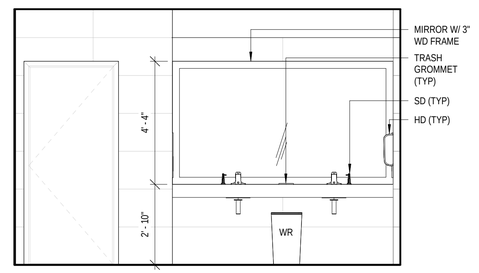
5 A412 WOMEN'S RESTROOM 126 - WEST IE

0' 2' 4'



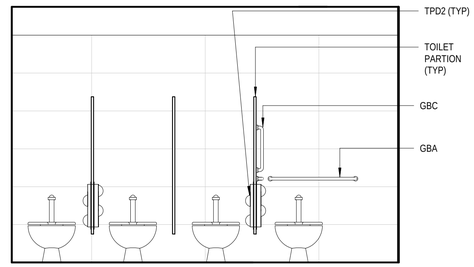
8 A412 WOMEN'S RESTROOM 126 - EAST IE

0' 2' 4'



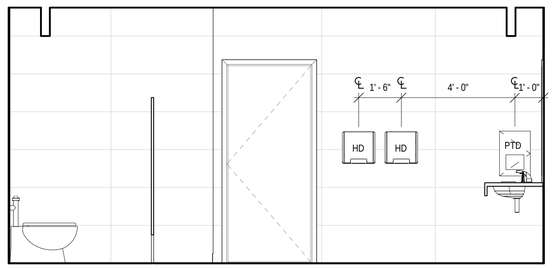
6 A412 WOMEN'S RESTROOM 126 - SOUTH IE

0' 2' 4'



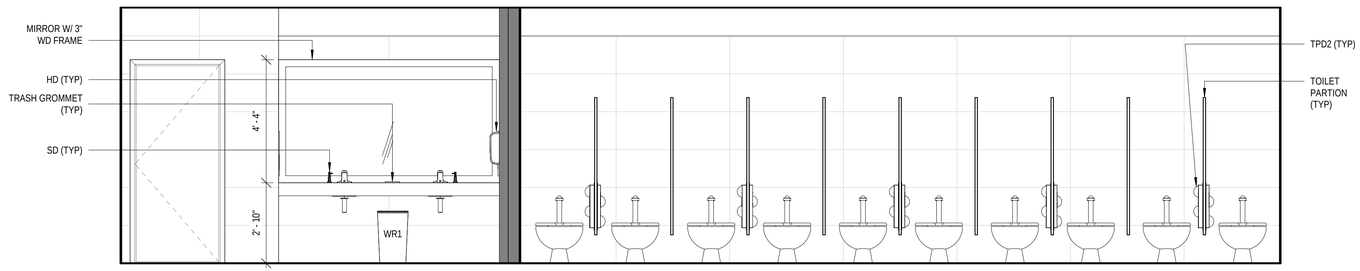
7 A412 WOMEN'S RESTROOM 126 - NORTH IE

0' 2' 4'



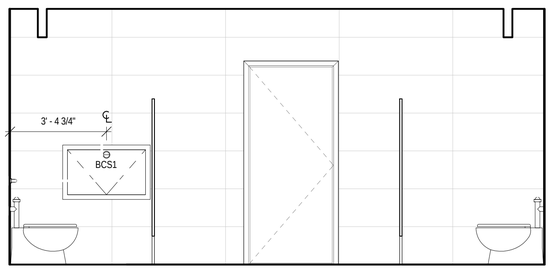
4 A412 WOMEN'S RESTROOM 125 - WEST IE

0' 2' 4'



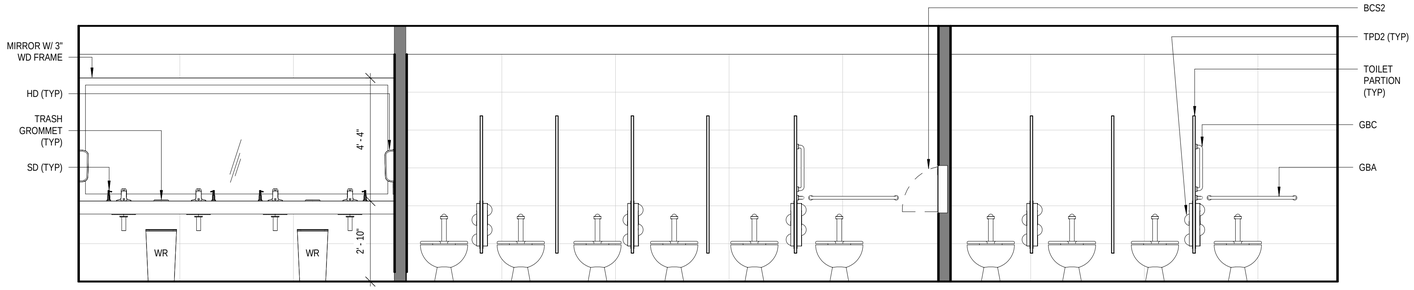
2 A412 WOMEN'S RESTROOM 125 - SOUTH IE

0' 2' 4'



3 A412 WOMEN'S RESTROOM 125 - EAST IE

0' 2' 4'



1 A412 WOMEN'S RESTROOM 125 - NORTH IE

0' 2' 4'

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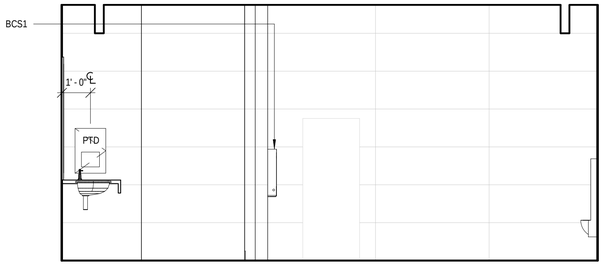
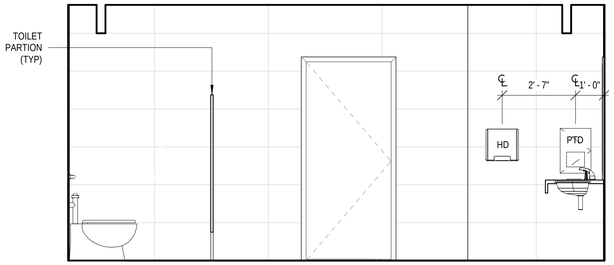
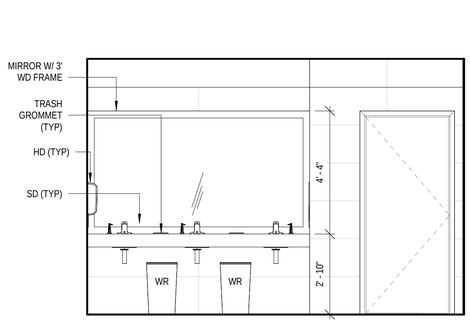


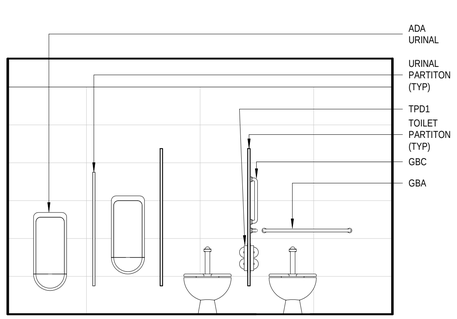
8 A413 MEN'S RESTROOM 127 - WEST IE



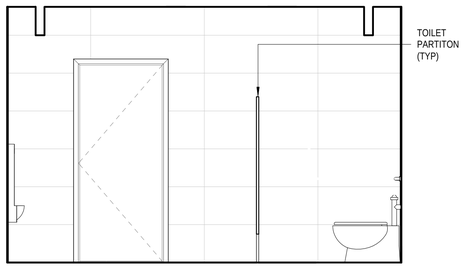
7 A413 MEN'S RESTROOM 127 - EAST IE



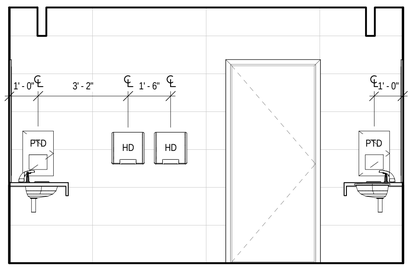
6 A413 MEN'S RESTROOM 127 - SOUTH IE



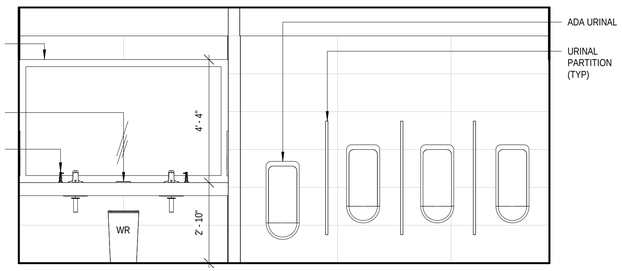
5 A413 MEN'S RESTROOM 127 - NORTH IE



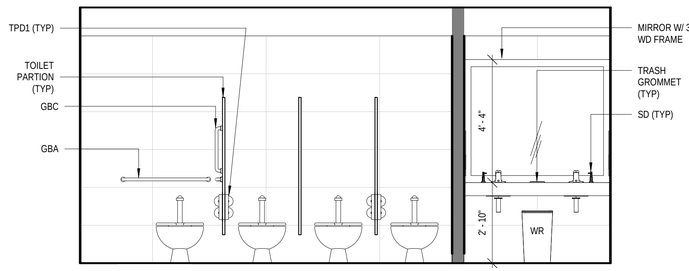
4 A413 MEN'S RESTROOM 128 - WEST IE



3 A413 MEN'S RESTROOM 128 - EAST IE



2 A413 MEN'S RESTROOM 128 - SOUTH IE



1 A413 MEN'S RESTROOM 128 - NORTH IE

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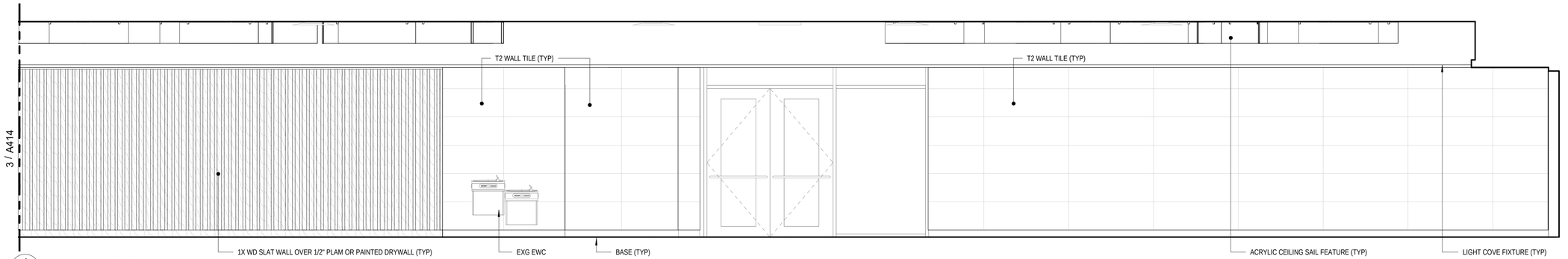
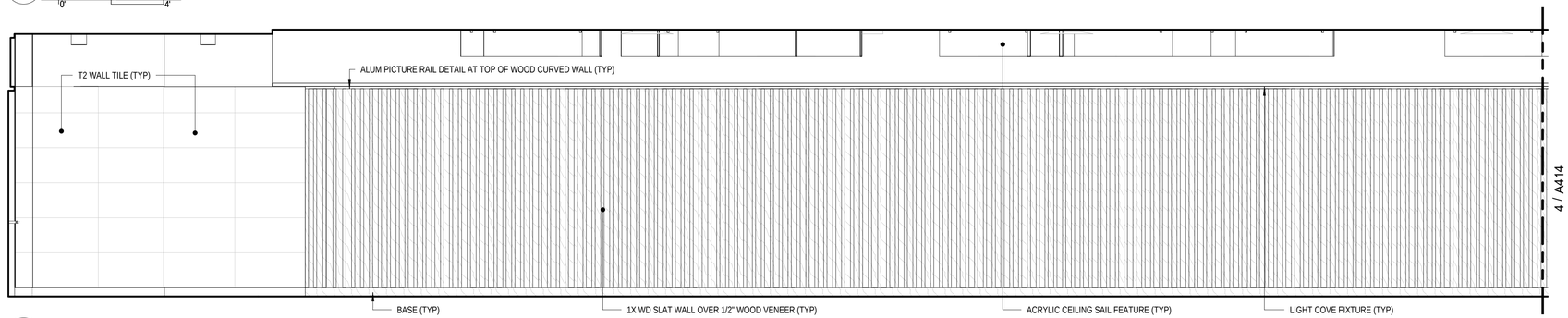


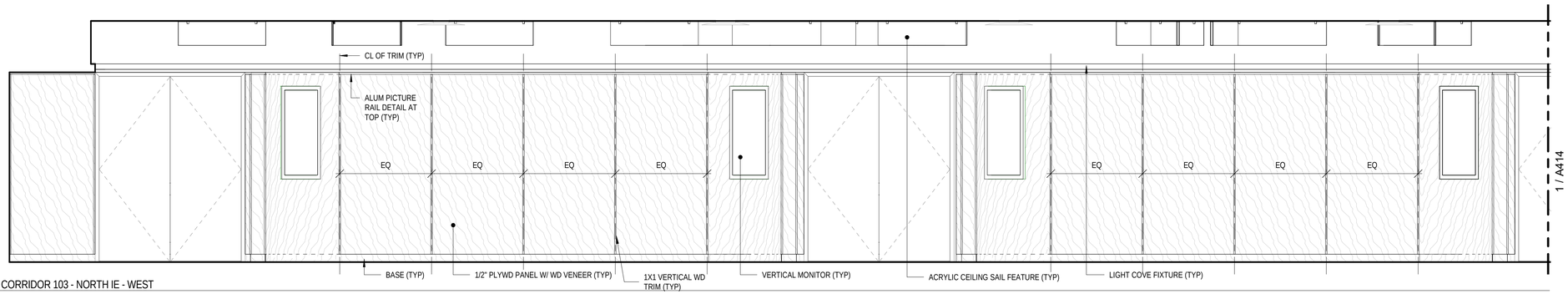
4 A414 CORRIDOR 103 - SOUTH IE - WEST

0' 2' 4'



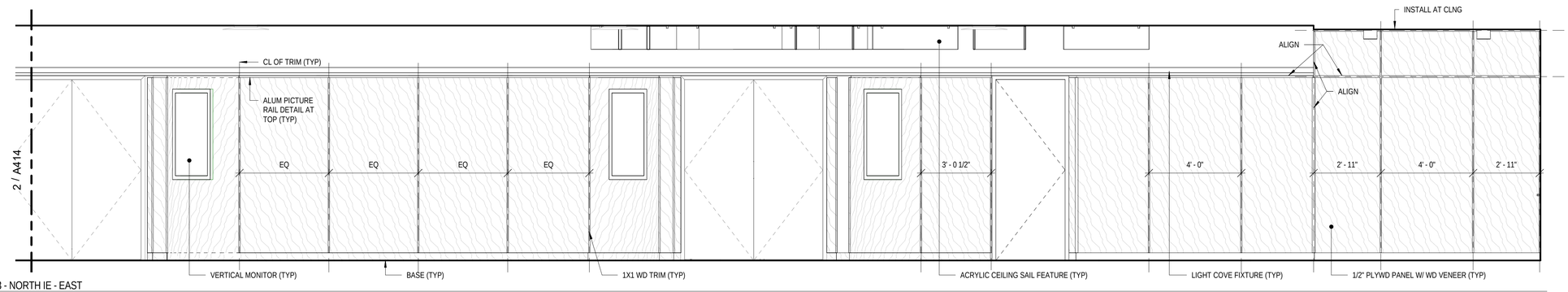
3 A414 CORRIDOR 103 - SOUTH IE - EAST

0' 2' 4'



2 A414 CORRIDOR 103 - NORTH IE - WEST

0' 2' 4'



1 A414 CORRIDOR 103 - NORTH IE - EAST

0' 2' 4'

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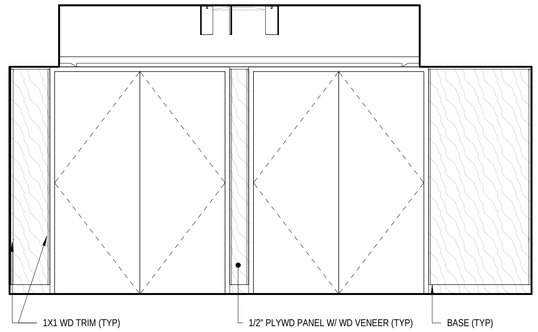
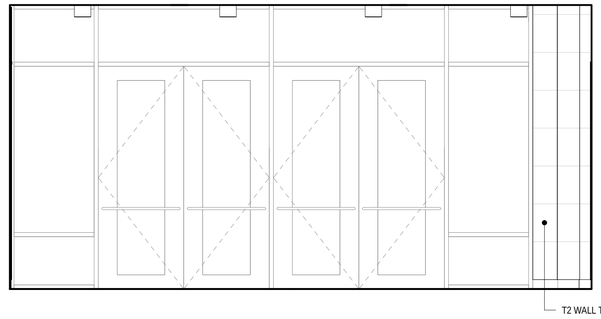


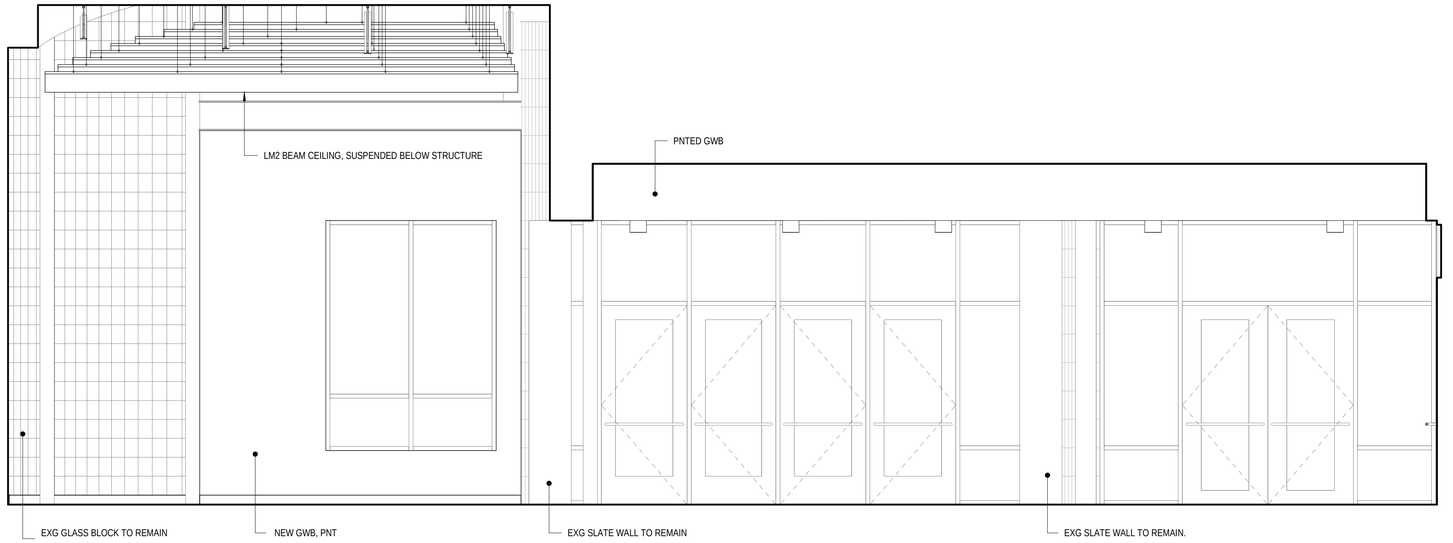


4 A415 CORRIDOR 103 - WEST IE

0' 2' 4'

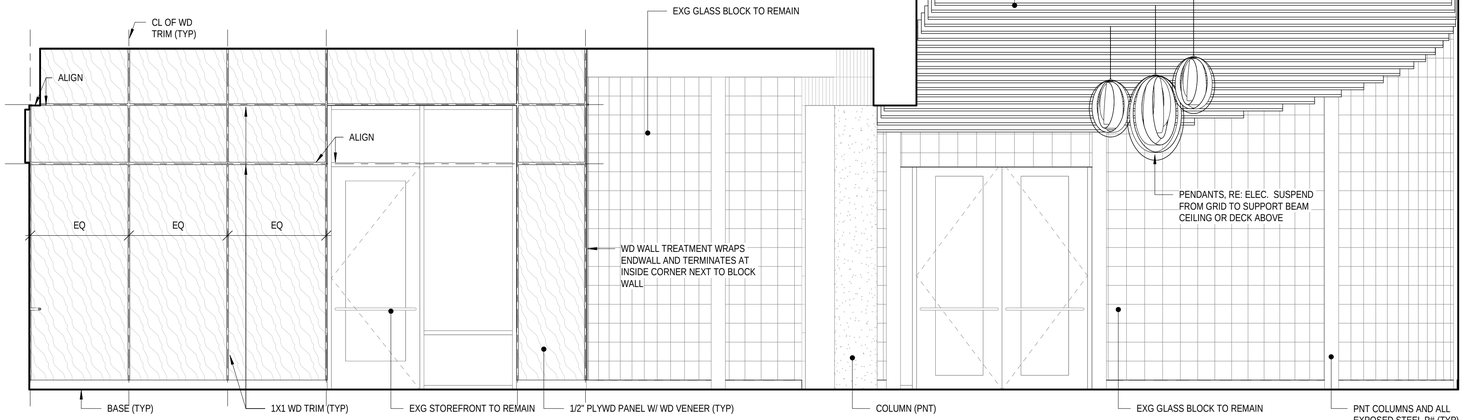
3 A415 CORRIDOR 103 - EAST IE

0' 2' 4'

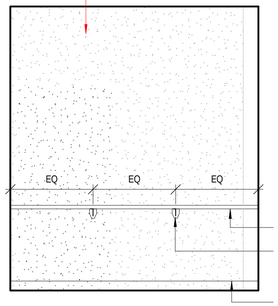


2 A415 LOBBY 100 - SOUTH IE

0' 2' 4'



VERIFY WALL FINISH, CONC OR GWB?



5 A415 OFFICE 116 - WEST IE

0' 2' 4'

1 A415 LOBBY 100 - NORTH IE

0' 2' 4'

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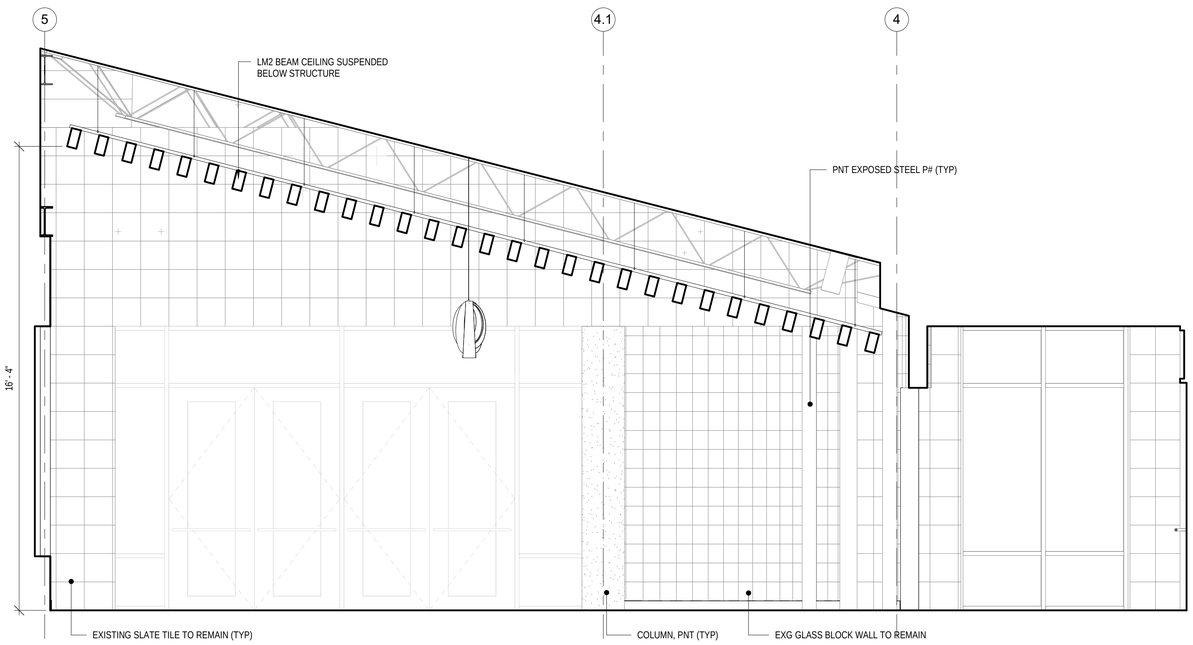
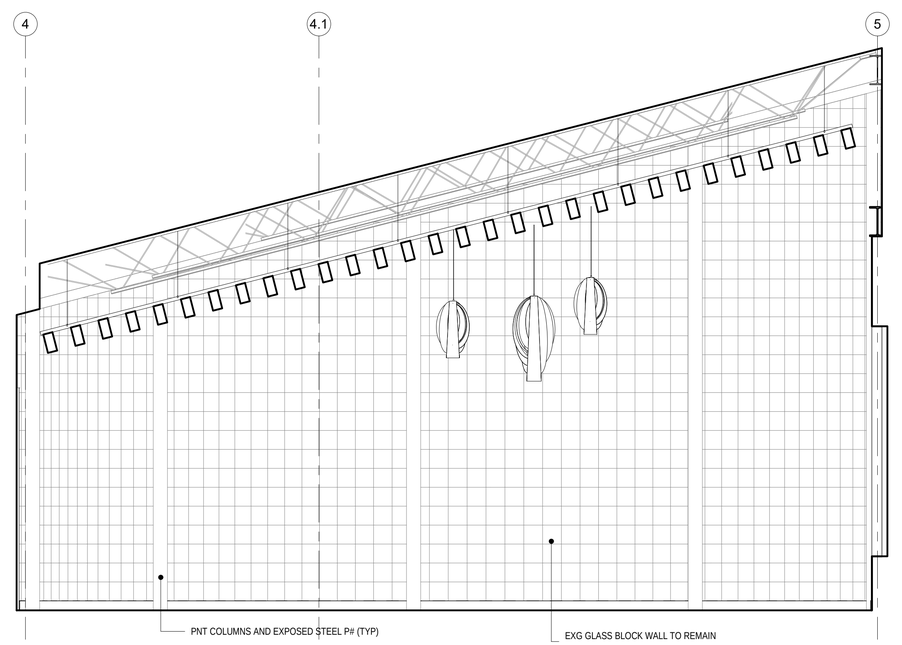


2 A416 LOBBY 100 - WEST IE

0' 2' 4'



1 A416 LOBBY 100 - EAST IE

0' 2' 4'

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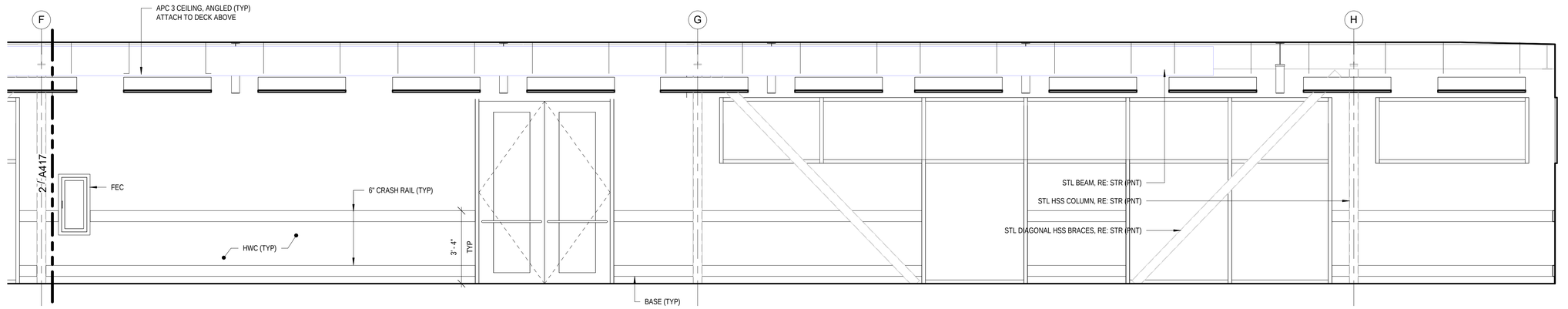
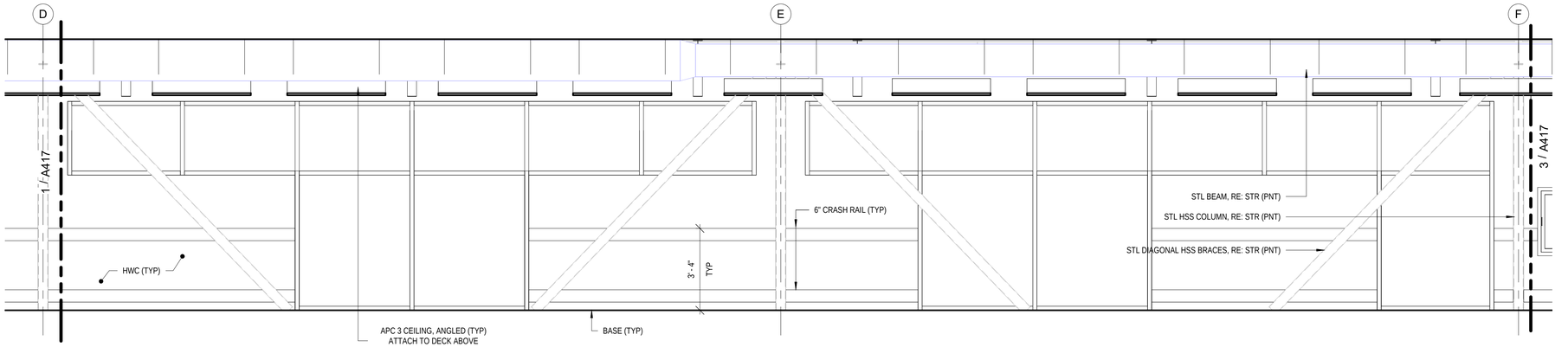


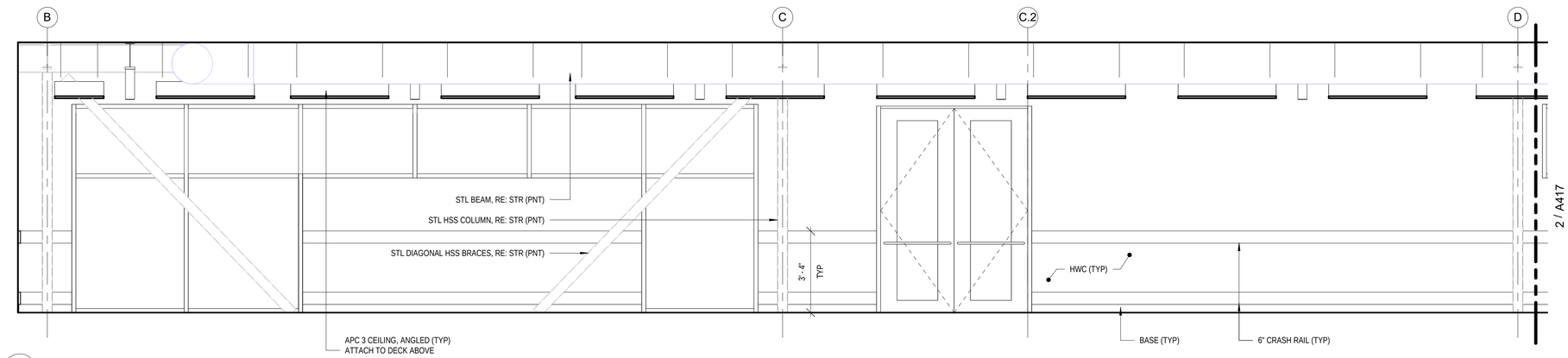
3 A417 SERVICE CORRIDOR 101 - NORTH IE - EAST

0' 2' 4'



2 A417 SERVICE CORRIDOR 101 - NORTH IE - CENTER

0' 2' 4'



1 A417 SERVICE CORRIDOR 101 - NORTH IE - WEST

0' 2' 4'

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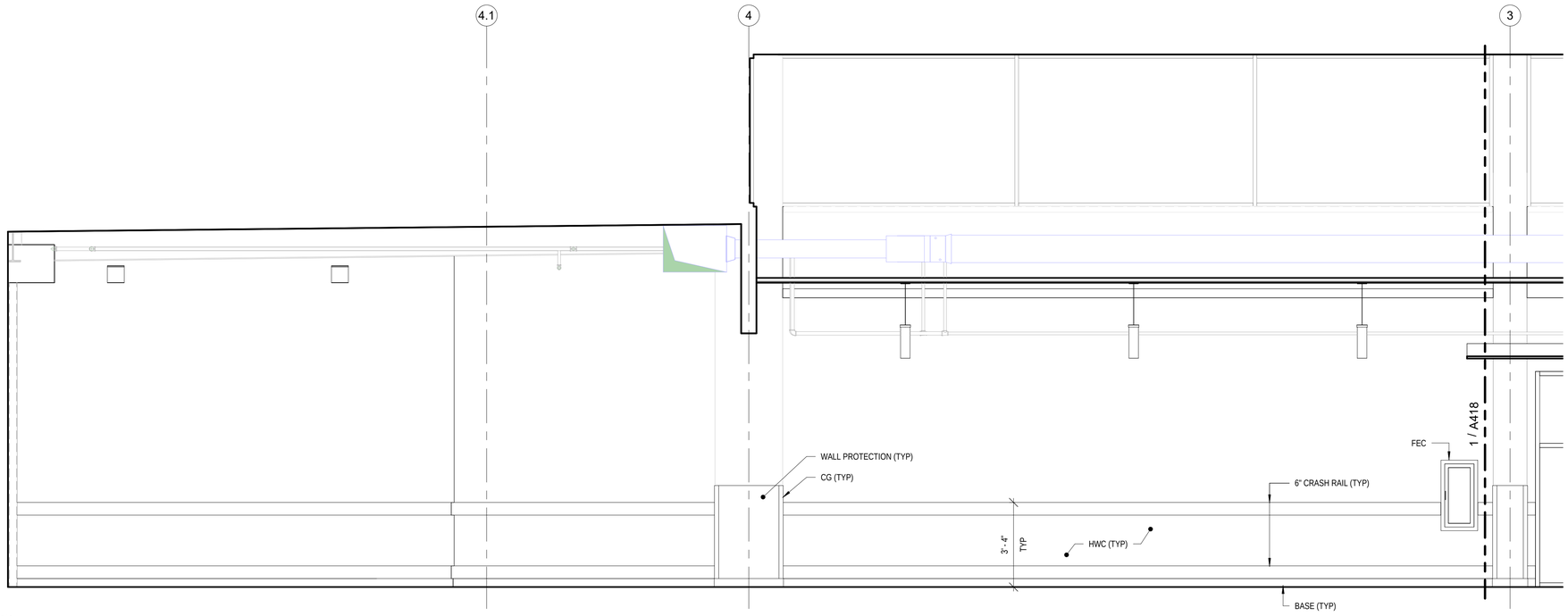
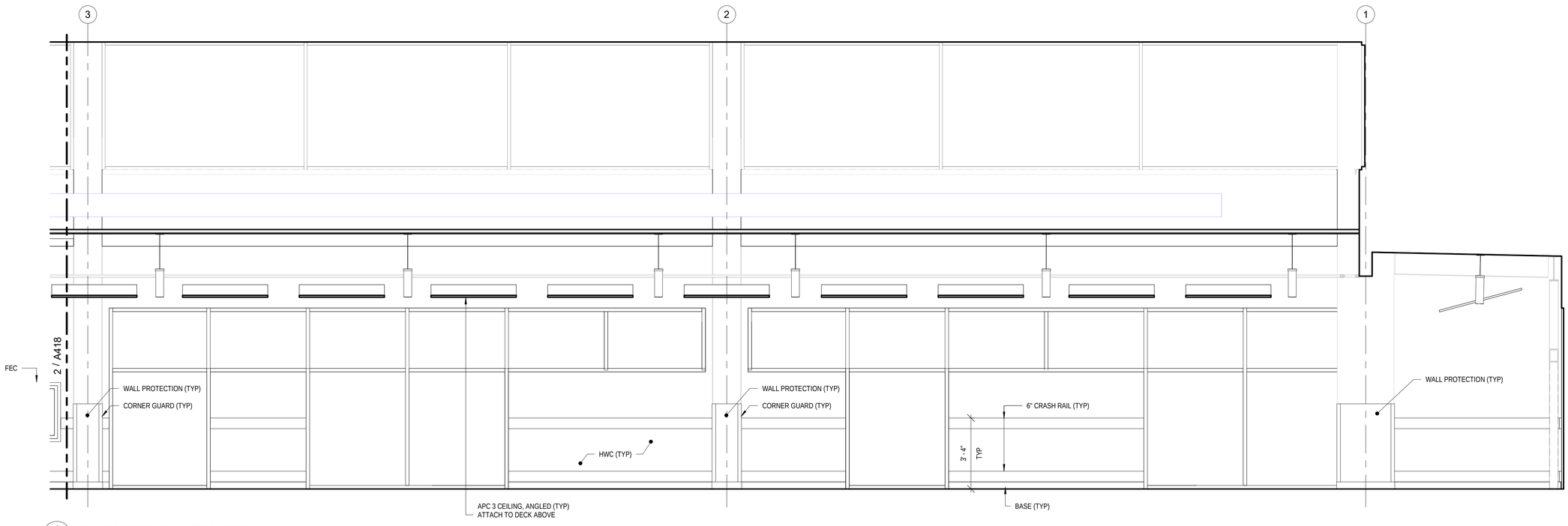


2 A418 SERVICE CORRIDOR 101 - WEST IE - SOUTH

0' 2' 4'



1 A418 SERVICE CORRIDOR 101 - WEST IE - NORTH

0' 2' 4'

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

INTERIOR ELEVATIONS

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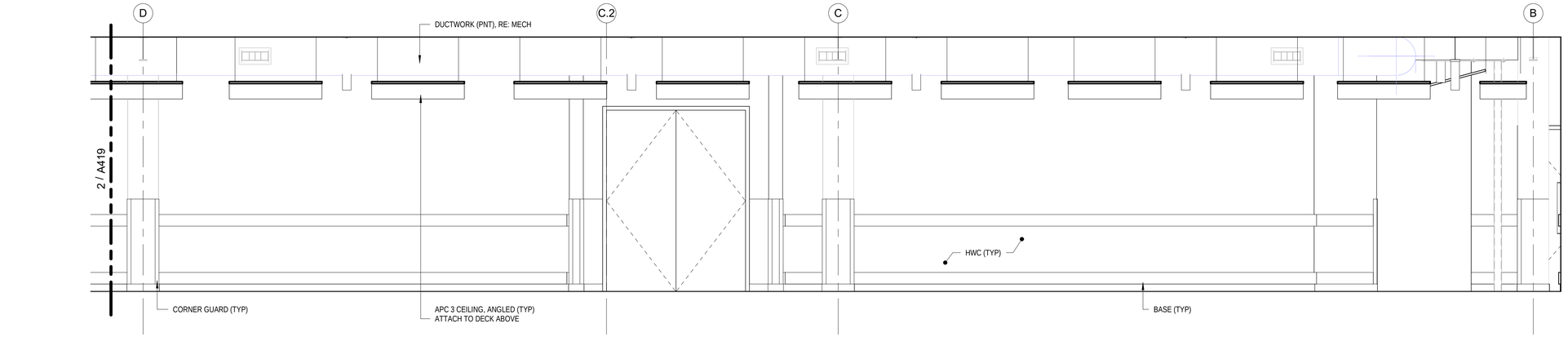
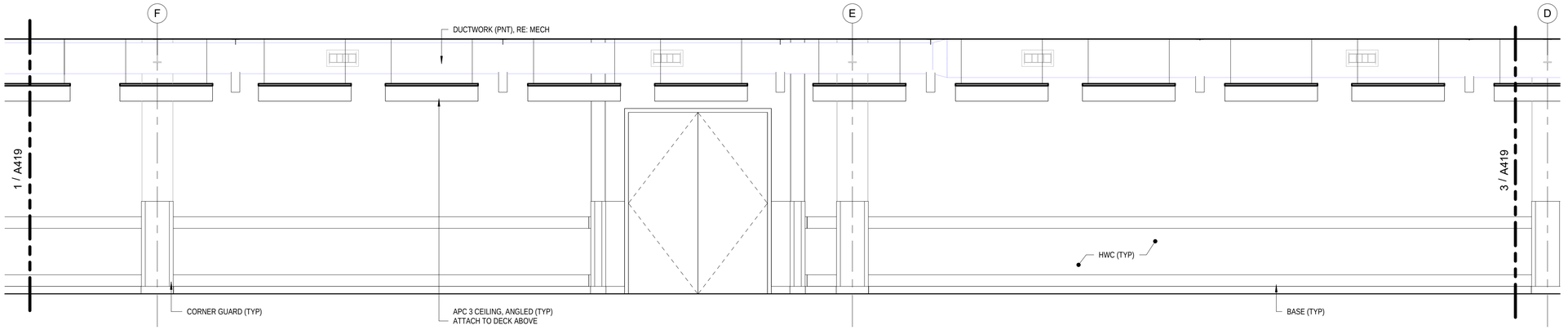


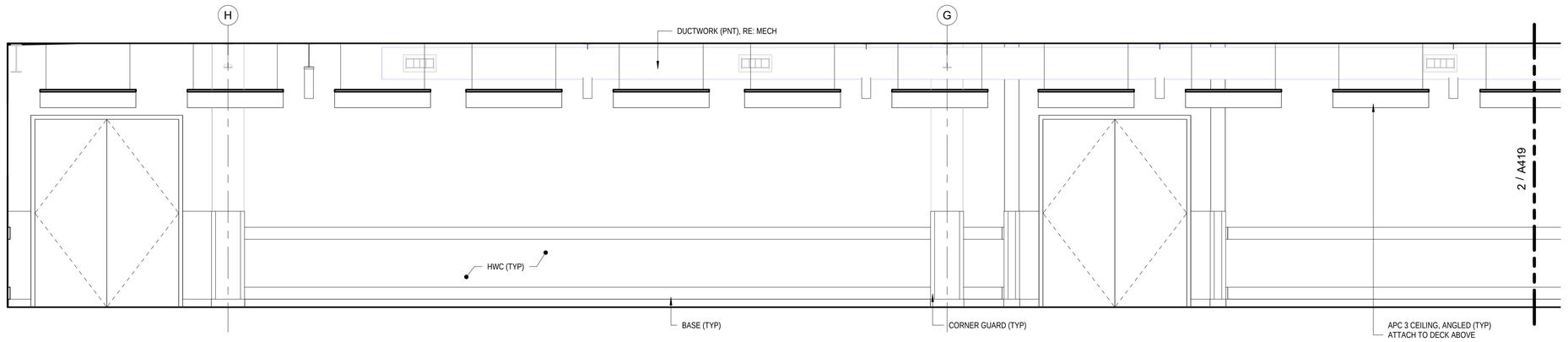
3 / A419 SERVICE CORRIDOR 101 - SOUTH IE - EAST

0' 2' 4'



2 / A419 SERVICE CORRIDOR 101 - SOUTH IE - CENTER

0' 2' 4'



1 / A419 SERVICE CORRIDOR 101 - SOUTH IE - WEST

0' 2' 4'

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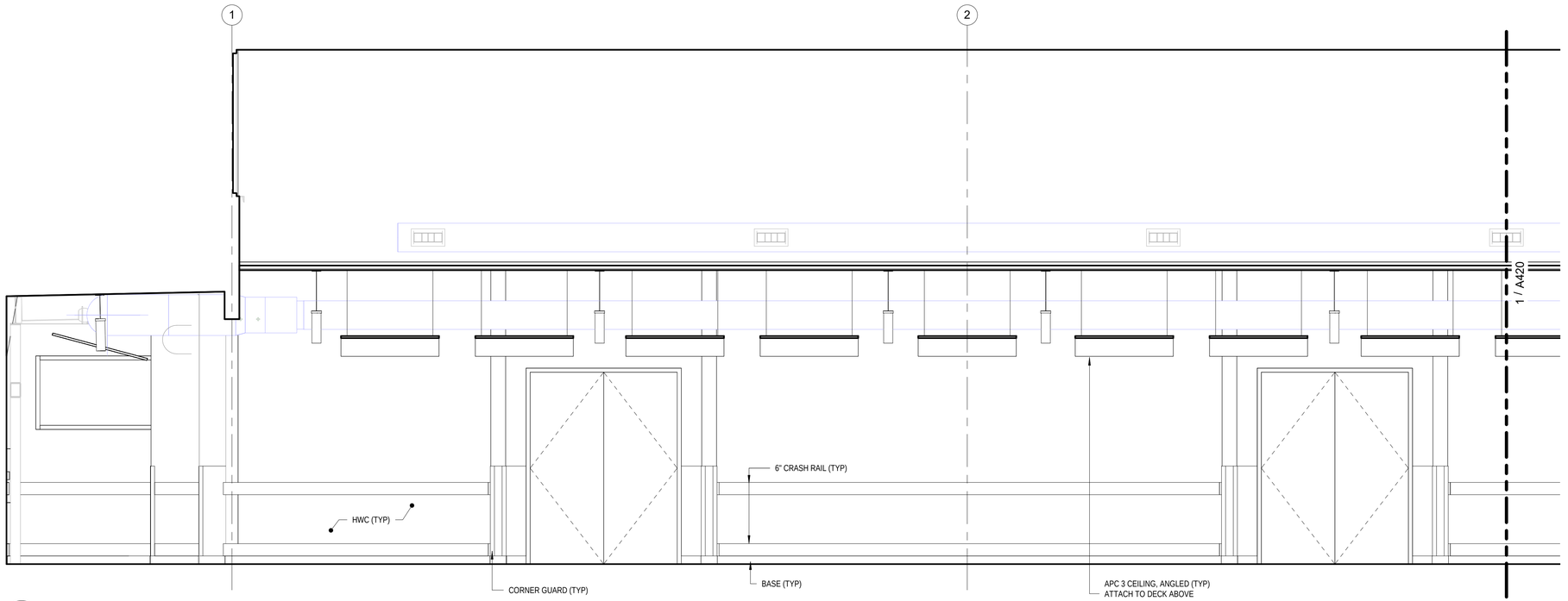
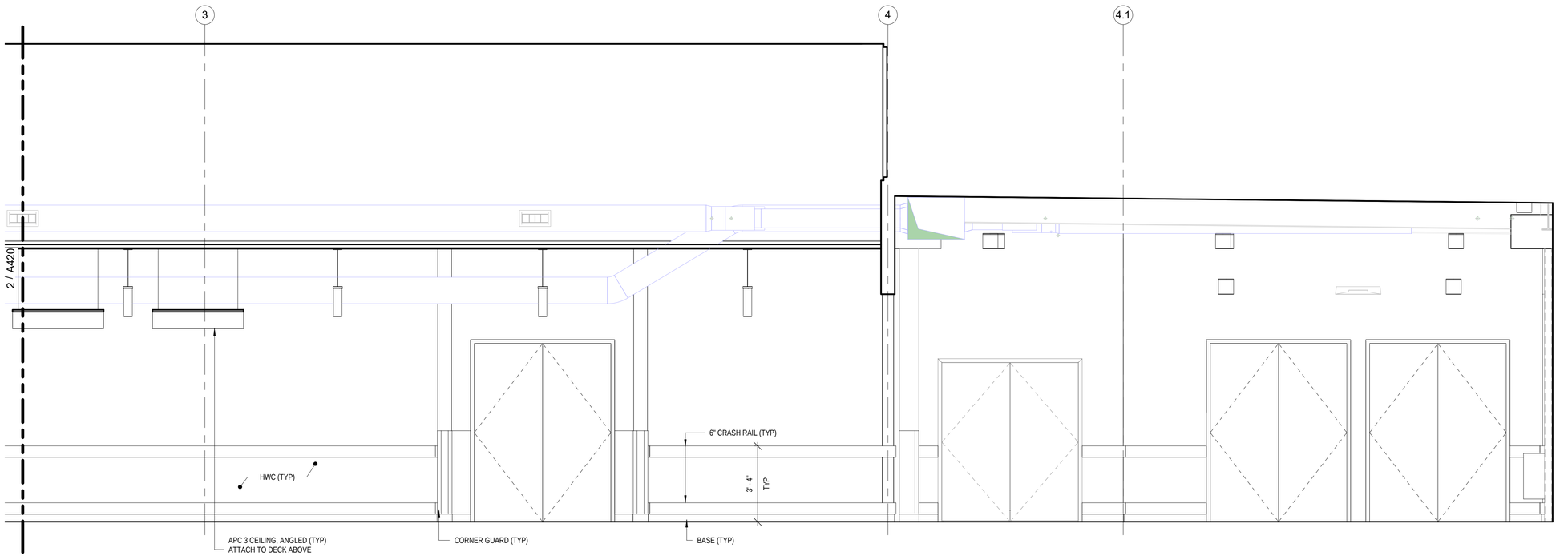


2 A420 SERVICE CORRIDOR 101 - EAST IE - NORTH

0' 2' 4'



1 A420 SERVICE CORRIDOR 101 - EAST IE - SOUTH

0' 2' 4'

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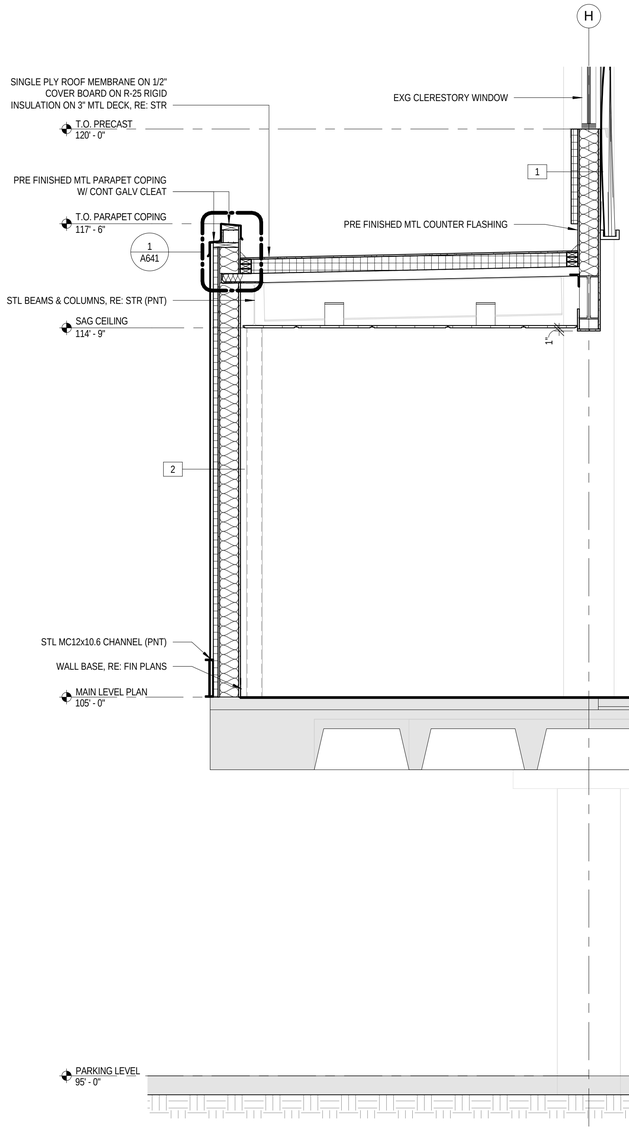
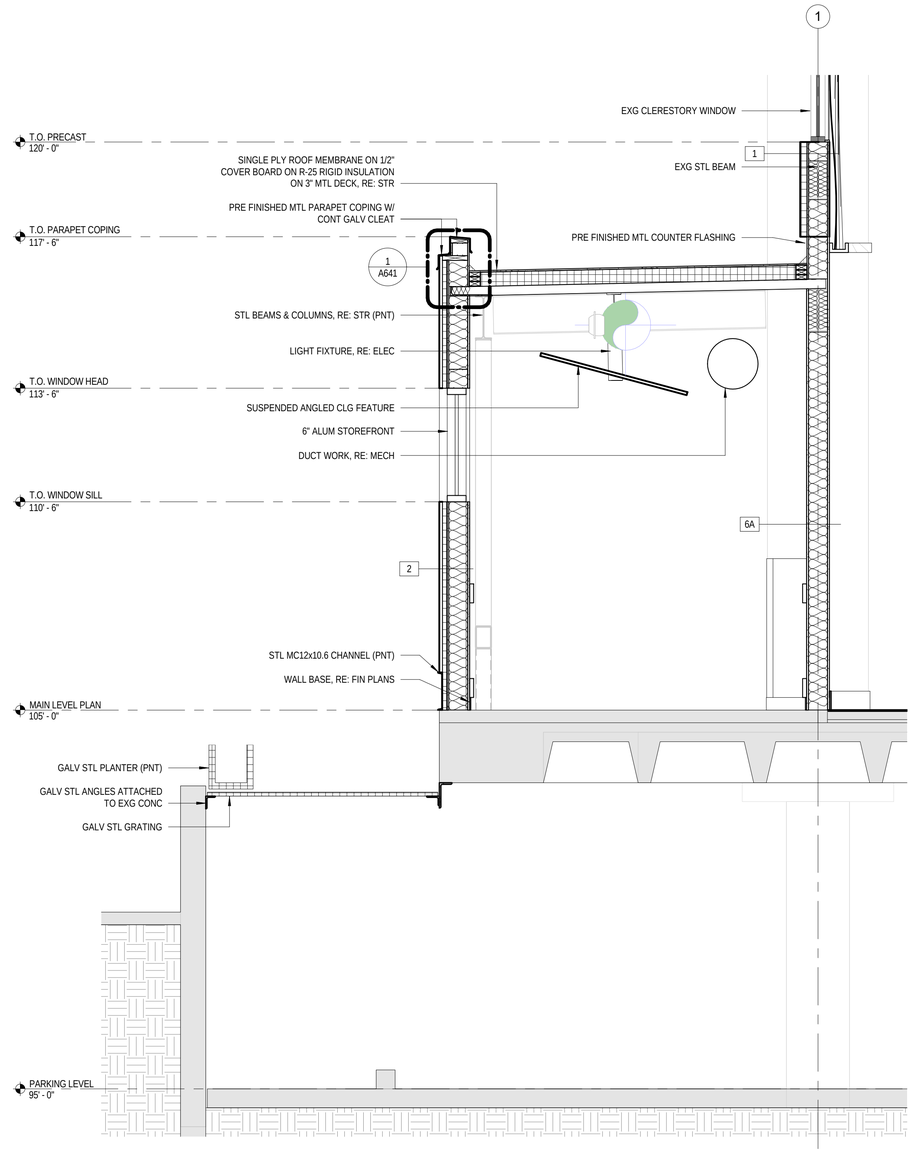


2 A501 CORRIDOR WALL SECTION 3

0' 1' 2'



1 A501 CORRIDOR WALL SECTION 2

0' 1' 2'

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WALL SECTIONS

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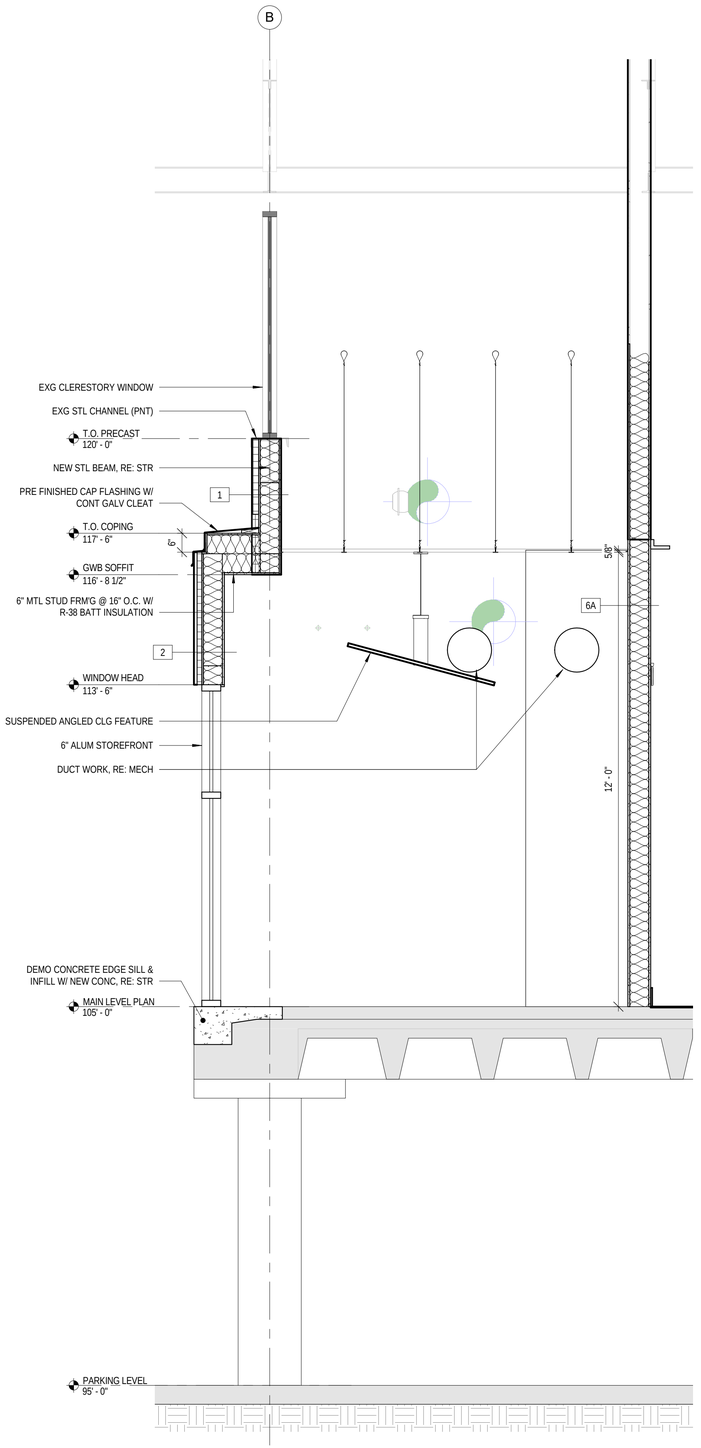
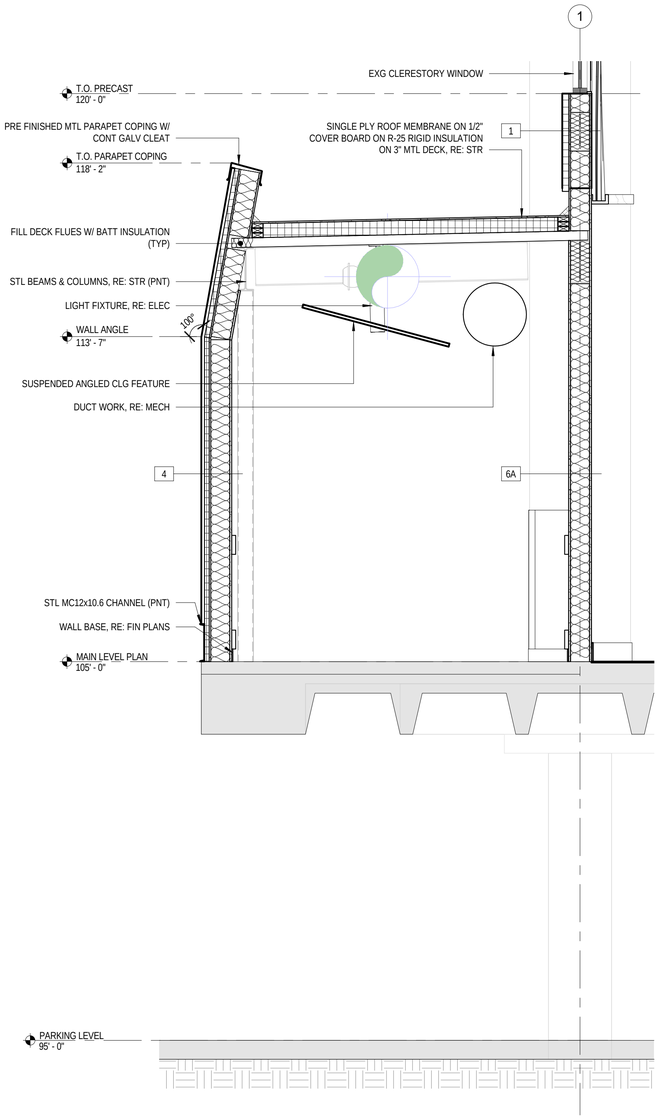


2 A502 CORRIDOR WALL SECTION 1

0' 1' 2'



1 A502 CORRIDOR WALL SECTION 4

0' 1' 2'

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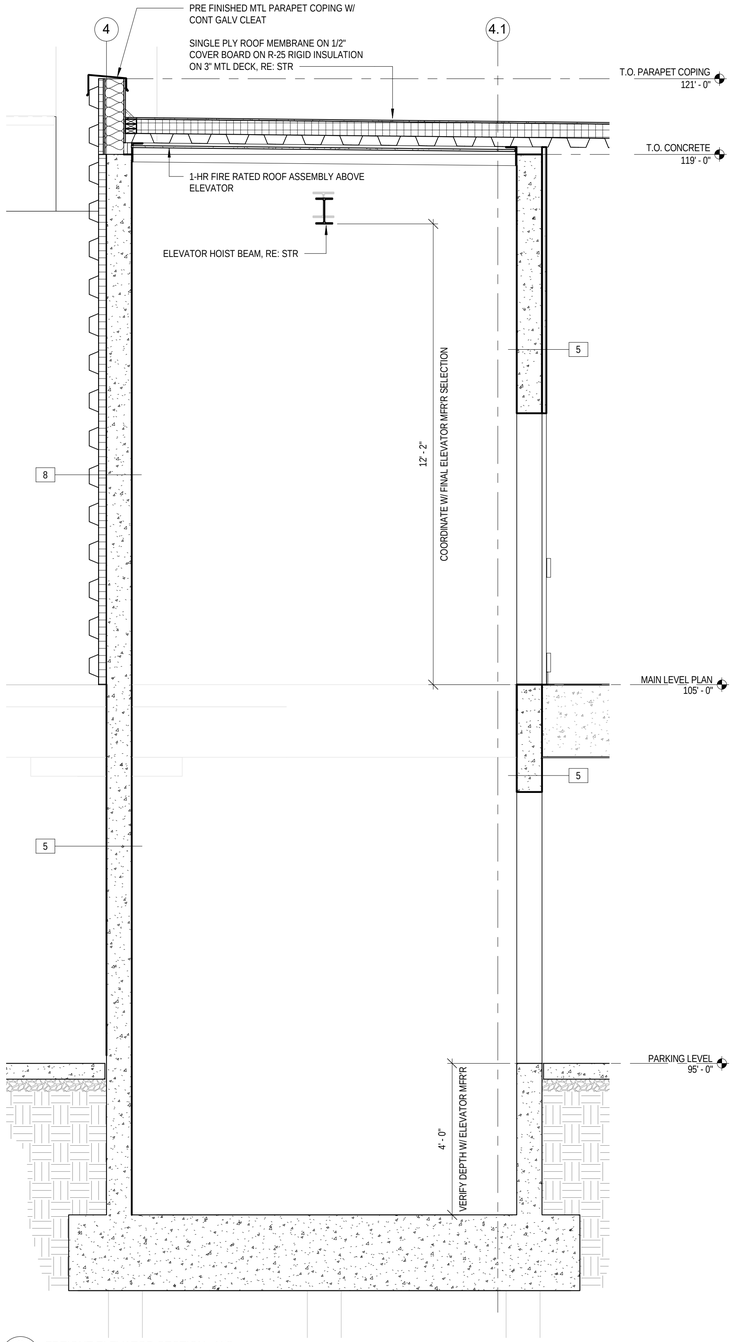
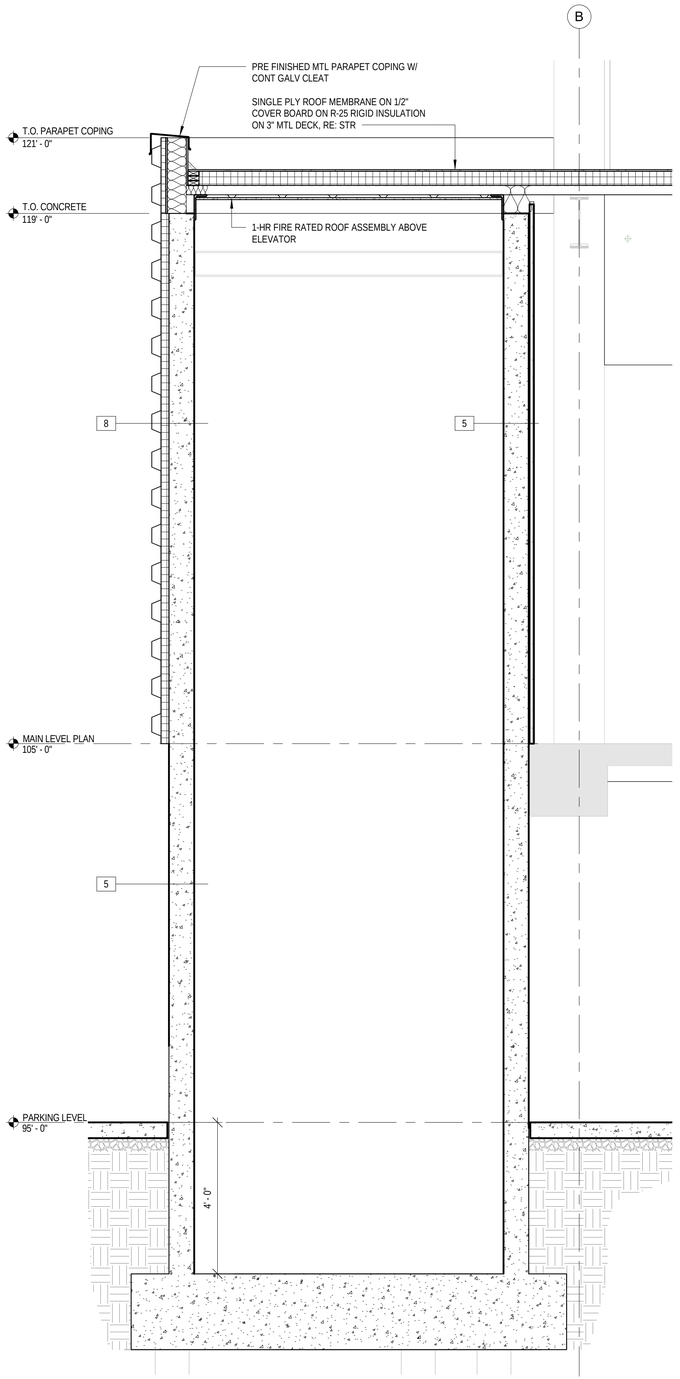


2 A503 FREIGHT ELEVATOR SECTION - N/S

0' 1' 2'



1 A503 FREIGHT ELEVATOR SECTION - E/W

0' 1' 2'

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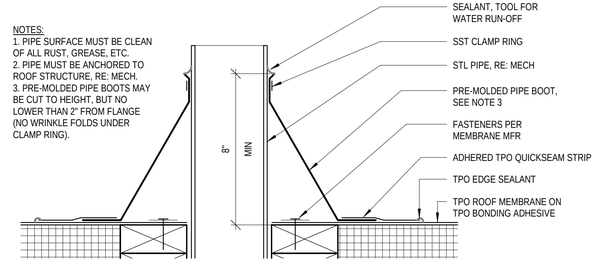
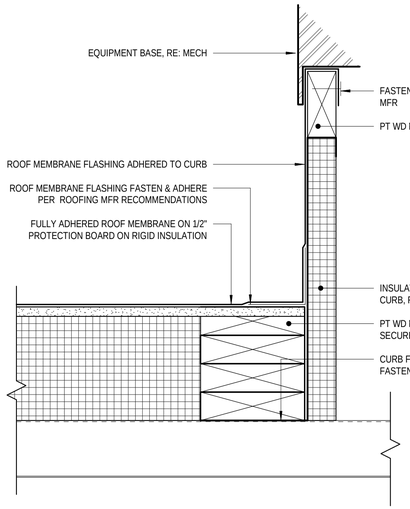


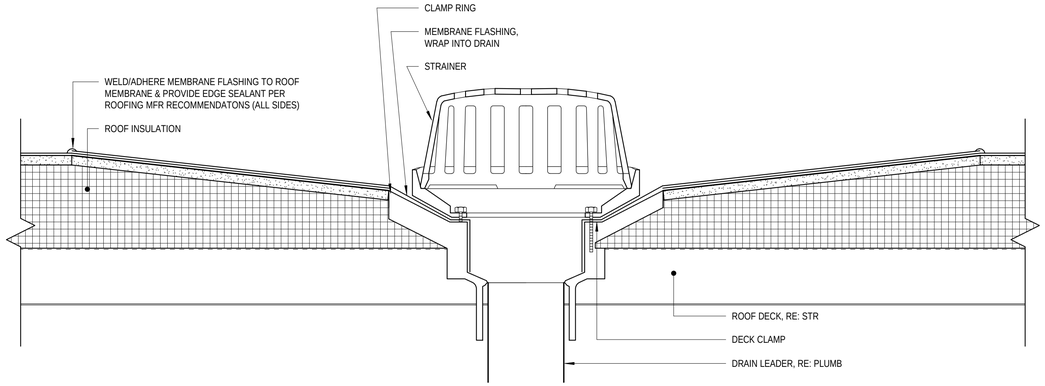
4 A641 TYP ROOF PENETRATION DETAIL

0' 3" 6"



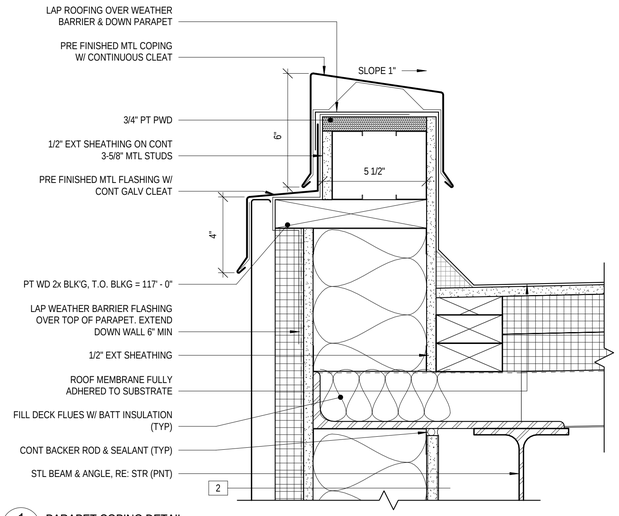
3 A641 MECHANICAL UNIT CURB DETAIL

0' 3" 6"



2 A641 TYP ROOF DRAIN DETAIL

0' 3" 6"



1 A641 PARAPET COPING DETAIL

0' 3" 6"

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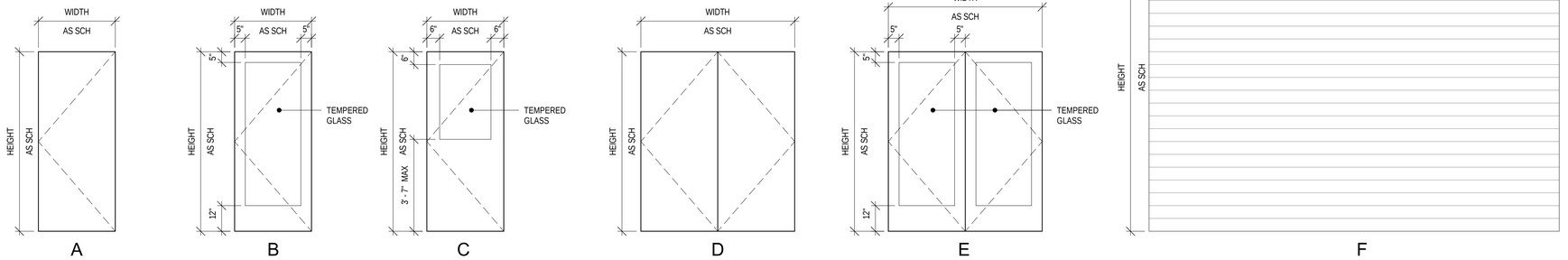
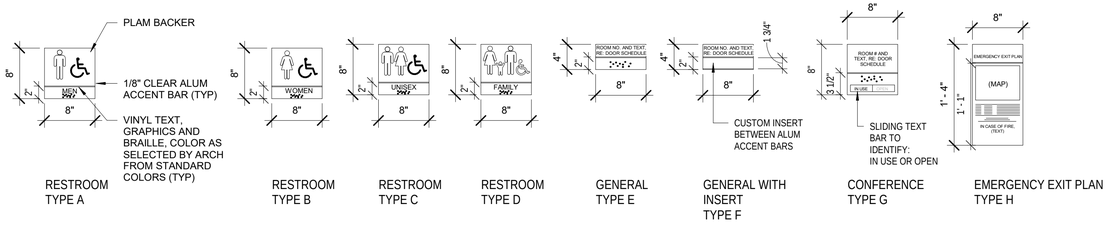
DOOR SCHEDULE

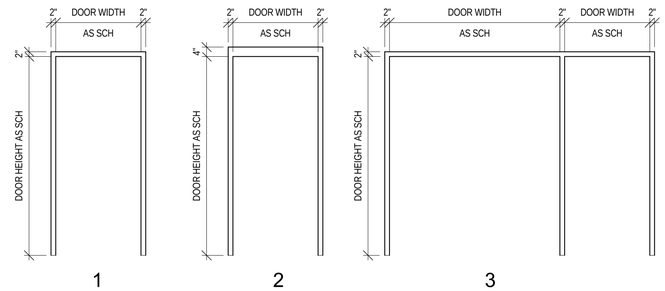
DOOR NO.	DOOR W	DOOR H	DOOR T	DOOR MATERIAL	DOOR TYPE	DOOR FIRE RATING	FRAME MATERIAL	FRAME TYPE	FRAME DETAIL JAMB	FRAME DETAIL HEAD	FRAME DETAIL SILL	HDWR SET	NOTES	SIGNAGE SIGN TYPE	SIGNAGE TEXT
002A	3' - 0"	7' - 0"	1 3/4"	HM	A	-	HM	2					STOREROOM		
002B	12' - 0"	8' - 0"	2"	HM	A	-	HM	2					STOREROOM		
005	4' - 6"	7' - 0"	0"			45 MIN							BY ELEVATOR MFR'R		
101A	3' - 0"	7' - 0"	1 3/4"	HM	A	-	HM	3					EGRESS		
101B	6' - 0"	7' - 0"	1 3/4"	HM	D	-	HM	3					EGRESS		
101C	6' - 0"	8' - 4"	1 3/4"	ALUM	E	-	ALUM	1					EGRESS		
101D	6' - 0"	8' - 4"	1 3/4"	ALUM	E	-	ALUM	1					EGRESS		
102A	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102B	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102C	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102D	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102E	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102F	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102G	6' - 0"	7' - 10"	1 3/4"	WD	D	-	HM	1					ENTRY		
102H	6' - 0"	7' - 10"	1 3/4"	WD	A	-	HM	1					ENTRY		
103A	6' - 0"	7' - 10"	1 3/4"	WD	C	-	HM	1					EGRESS		
103B	6' - 0"	7' - 10"	1 3/4"	WD	C	-	HM	1					EGRESS		
106	16' - 0"	12' - 0"	2"	STL	F	-	STL	-					AUTOMATIC KEY TURN		
109	3' - 0"	7' - 10"	1 3/4"	WD	A	-	HM	1					OFFICE		
109	16' - 0"	12' - 0"	2"	STL	F	-	STL	-					AUTOMATIC KEY TURN		
110	3' - 0"	7' - 0"	1 3/4"	WD	A	-	HM	1					OFFICE		
116	3' - 0"	7' - 0"	1 3/4"	WD	C	-	HM	1					OFFICE		
130	4' - 6"	7' - 0"	0"			45 MIN							BY ELEVATOR MFR'R		
E101	6' - 0 1/4"	8' - 0 1/8"	1 3/4"												
E102	3' - 0 1/4"	7' - 0 1/8"	1 3/4"												
E102I	6' - 0"	7' - 10"	1 3/4"												
E102J	6' - 0"	7' - 10"	1 3/4"												
E102K	6' - 0"	7' - 10"	1 3/4"												
E102L	6' - 0"	7' - 10"	1 3/4"												
E111	3' - 1 3/8"	7' - 10 1/8"	1 3/4"												
E112	7' - 4"	7' - 8"	0"												
E120A	3' - 0"	7' - 0"	1 3/4"												
E120B	3' - 0"	7' - 0"	1 3/4"												
E120C	12' - 0"	6' - 8"	1 3/4"												
E125	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E126A	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E126B	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E127A	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E127B	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		
E128	3' - 0"	7' - 0"	1 3/4"	EXG	EXG	EXG	EXG	EXG					EXG		



2 A701 DOOR TYPES



3 A701 SIGN TYPES



1 A701 FRAME TYPES

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DOOR TYPES & SCHEDULE

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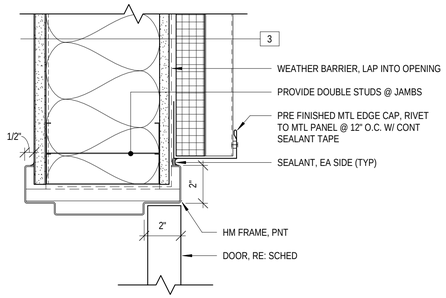
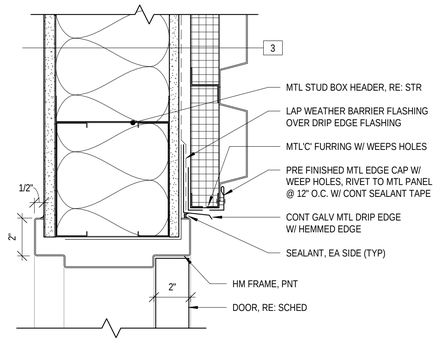
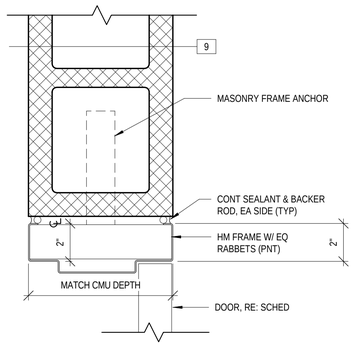


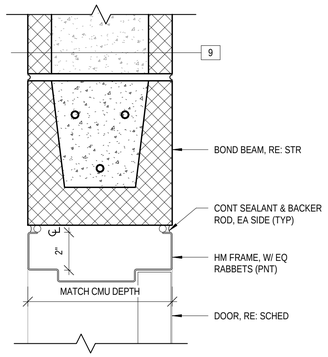
10 A702 EXT DOOR JAMB @ MTL SIDING



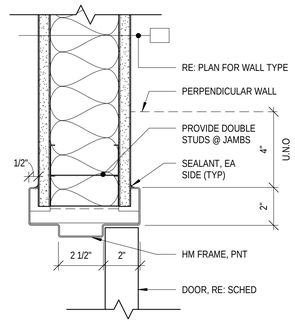
9 A702 EXT DOOR HEAD @ MTL SIDING



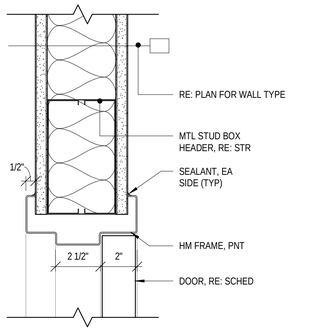
8 A702 HM DOOR JAMB @ CMU



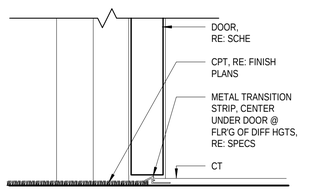
7 A702 HM DOOR HEAD @ CMU



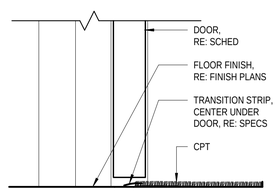
4 A702 INT DOOR JAMB



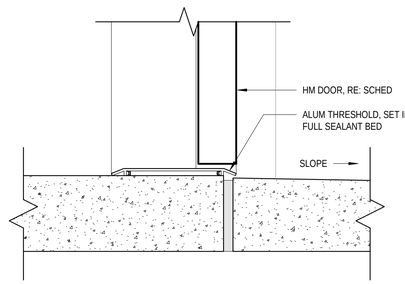
3 A702 INT DOOR HEAD



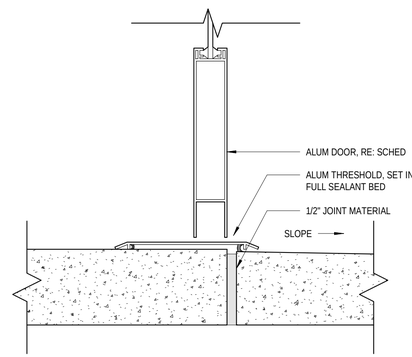
6 A702 DOOR THRESHOLD @ CT TO CPT



5 A702 DOOR THRESHOLD @ CPT TO CONC



2 A702 HM DOOR THRESHOLD DETAIL



1 A702 ALUMINUM STOREFRONT THRESHOLD DETAIL

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TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

DOOR DETAILS

NO:	ISSUED FOR:	DATE:

PROJECT STATUS: 50%
CD

DRAWN BY: PH CHECKED BY: DG

DATE: **11/13/2018** SHEET NO:

PROJECT NO: **1727** **A702**

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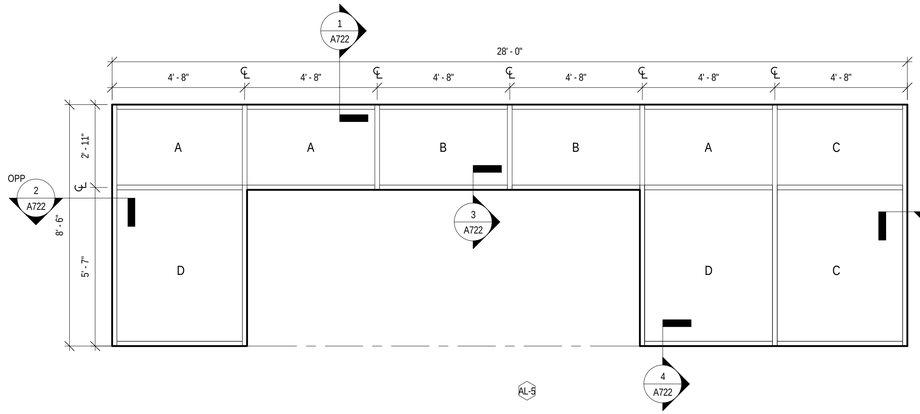
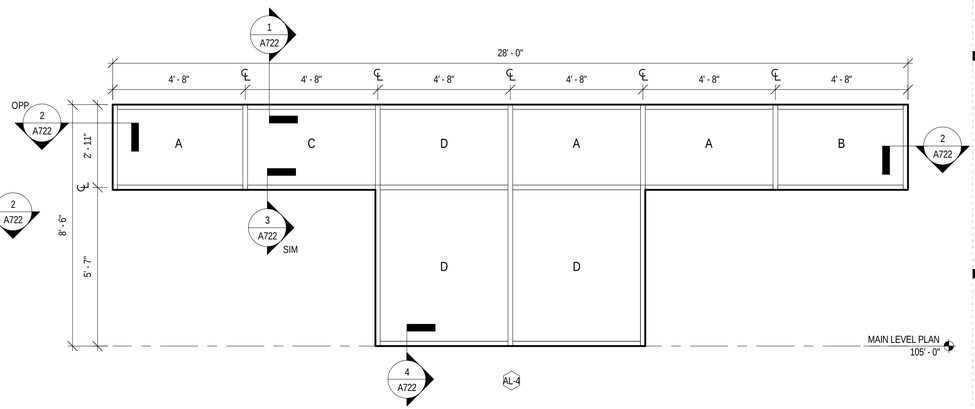
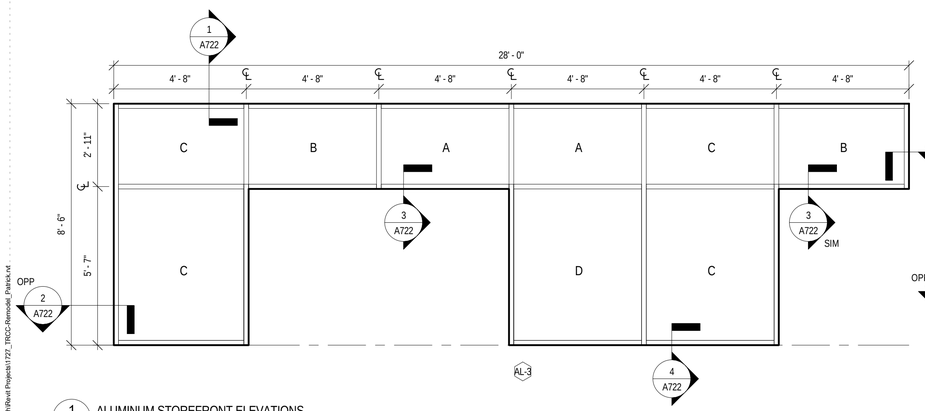
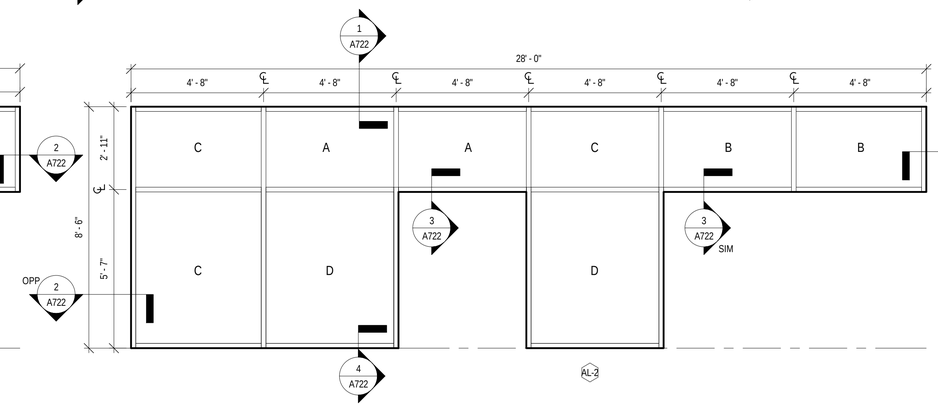
GLAZING LEGEND

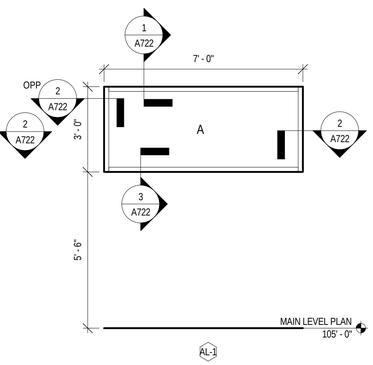
A	CLEAR
B	COLORED
C	MIRRORED
D	SPANDREL











1 A721 ALUMINUM STOREFRONT ELEVATIONS

0' 2' 4'

TWO RIVERS CONVENTION CENTER

GRAND JUNCTION, COLORADO

WINDOW TYPES

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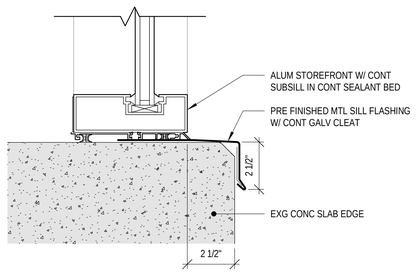
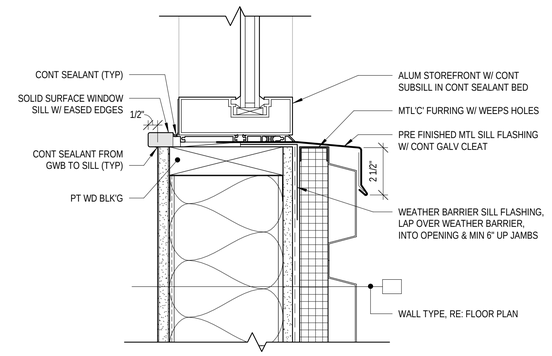
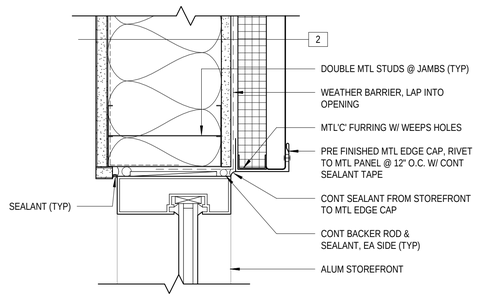


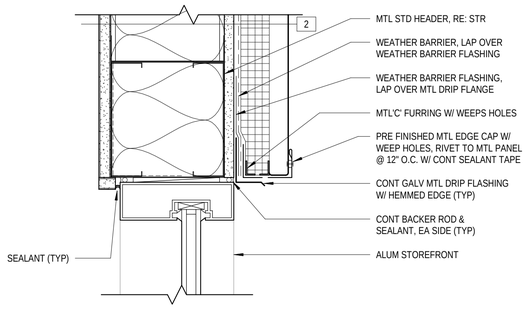
4 A722 ALUM STOREFRONT SILL @ CONC



3 A722 ALUM STOREFRONT SILL @ SIDING



2 A722 ALUM STOREFRONT JAMB



1 A722 ALUM STOREFRONT HEAD

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