



Purchasing Division

Invitation for Bid

IFB-4326-17-DH
2017 Sewer Line Replacement Project Phase A

Responses Due:

February 16, 2017 prior to 11:00am

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

Invitation for Bids

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1. Instructions to Bidders

- 1.1. **Purpose:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required for the installation of replacement sanitary sewer and restoration of the roadway and sidewalks as described within this document and that accompanied plans for the construction of the 2017 Sewer Line Replacement Project. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

IFB Questions:

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

- 1.2. **Mandatory Pre-Bid Meeting:** **Prospective bidders are required to attend a mandatory pre-bid meeting on February 7, 2017 at 10:00am.** Meeting location shall be in the City Hall Auditorium, located at 250 N. 5th Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).
- 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. **Submission:** **Each bid 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/BidOpenings.aspx> 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**)
- 1.5. **Modification and Withdrawal of Bids Before Opening.** Bids may be modified or withdrawn by an appropriate document stating such, duly executed and submitted to the place where Bids are to be submitted at any time prior to Bid Opening.
- 1.6. **Printed Form for Price Bid:** All Price Bids must be made upon the Price Bid Schedule attached, and should give the amounts both in words and in figures, and must be signed and acknowledged by the bidder.

The Offeror shall specify a unit price in figures for each pay item for which a quantity is given and shall provide the products (in numbers) of the respective unit prices and quantities in the Extended Amount column. The total Bid price shall be equal to the sum of all extended amount prices. When an item in the Price Bid Schedule provides a choice to be made by the Offeror, Offeror's choice shall be indicated in accordance with the specifications for that particular item and thereafter no further choice shall be permitted.

Where the unit of a pay item is lump sum, the lump sum amount shall be shown in the "extended amount" column and included in the summation of the total Bid.

All blank spaces in the Price Bid Schedule must be properly filled out.

Bids by corporations must be executed in the corporate name by the president or vice president or other corporate office accompanied by evidence of authority to sign. The corporate address and state of incorporation shall be shown below the signature.

Bids by partnerships must be executed in the partnership name and signed by a partner whose title must appear under the signature and the official address of the partnership must be shown below the signature.

All names must be typed or printed below the signature.

The Offeror's Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Contractor's Bid Form.

The contact information to which communications regarding the Bid are to be directed must be shown.

- 1.7. **Exclusions:** No oral, telephonic, emailed, or facsimile bid will be considered
- 1.8. **Contract Documents:** The complete IFB and bidder's response compose the Contract Documents. Copies of bid documents can be obtained from the City Purchasing website, <http://www.gjcity.org/BidOpenings.aspx>.
- 1.9. **Additional Documents:** The July 2010 edition of the "City Standard Contract Documents for Capital Improvements Construction", Plans, Specifications and other Bid Documents are available for review or download on the Public Works & Planning/Engineering page at www.gjcity.org. Electronic copies may be obtained on a CD format at the Department of Public Works and Planning at City Hall.
- 1.10. **Definitions and Terms:** See Article I, Section 3 of the General Contract Conditions in the *Standard Contract Documents for Capital Improvements Construction*.
- 1.11. **Examination of Specifications:** Bidders shall thoroughly examine and be familiar with the project Statement of Work. The failure or omission of any Offeror to receive or examine any form, addendum, or other document shall in no way relieve any Offeror from any obligation with respect to his bid. The submission of a bid shall be taken as evidence of compliance with this section. Prior to submitting a bid, each Offeror shall, at a minimum:
 - a. Examine the *Contract Documents* thoroughly;
 - b. Visit the site to familiarize themselves with local conditions that may in any manner affect cost, progress, or performance of the Work;

- c. Become familiar with federal, state, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress or performance of the Work;
- d. Study and carefully correlate Bidder's observations with the *Contract Documents*, and;
- e. Notify the Engineer of all conflicts, errors, ambiguities or discrepancies in or among the *Contract Documents*

On request, the Owner will provide each Offeror access to the site to conduct such investigations and tests as each Bidder deems necessary for submission of a Bid. It shall be the Offeror's responsibility to make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (including without limitation, surface, subsurface and underground utilities) at or contiguous to the site or otherwise which may affect cost, progress or performance of the work and which the Offeror deems necessary to determine its Bid for performing the work in accordance with the time, price and other terms and conditions of the Contract Documents. Location of any excavation or boring made by Offeror shall be subject to prior approval of Owner and applicable agencies. Offeror shall fill all holes, restore all pavements to match the existing structural section and shall clean up and restore the site to its former condition upon completion of such exploration. The Owner reserves the right to require the Offeror to execute an access agreement with the Owner prior to accessing the site.

The lands upon which the Work is to be performed, rights of way, and access thereto, and other lands designated for use by Contractor in performing the Work, are identified on the Drawings.

Information and data reflected in the *Contract Documents* with respect to underground utilities at or contiguous to the site are based upon information and data furnished to the Owner and the Engineer by the owners of such underground utilities or others, and the Owner does not assume responsibility for the accuracy or completeness thereof, unless it is expressly provided otherwise in the *Contract Documents*.

By submission of a Bid, the Offeror shall be conclusively presumed to represent that the Offeror has complied with every requirement of these Instructions to Bidders, that the *Contract Documents* are not ambiguous and are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Work.

1.12. Questions Regarding Statement of Work: Any information relative to interpretation of Scope of Work or specifications shall be requested of the Purchasing Representative, in writing, in ample time prior to the response time.

1.13. Addenda & Interpretations: If it becomes necessary to revise any part of this solicitation, a written addendum will be posted electronically on the City's website at <http://www.gjcity.org/BidOpenings.aspx>. The Owner is not bound by any oral representations, clarifications, or changes made in the written specifications by Owner,

unless such clarification or change is provided in written addendum form from the City Purchasing Representative.

- 1.14. Taxes:** The Owner is exempt from State retail and Federal tax. The bid price must be net, exclusive of taxes.
- 1.15. Sales and Use Taxes:** The Contractor and all Subcontractors are required to obtain exemption certificates from the Colorado Department of Revenue for sales and use taxes in accordance with the provisions of the General Contract Conditions. Bids shall reflect this method of accounting for sales and use taxes on materials, fixtures and equipment.
- 1.16. Offers Binding 60 Days:** Unless additional time is required by the Owner, or otherwise specified, all formal offers submitted shall be binding for sixty (60) calendar days following opening date, unless the Bidder, upon request of the Purchasing Representative, agrees to an extension.
- 1.17. Collusion Clause:** Each bidder by submitting a bid 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 bids shall be rejected if there is evidence or reason for believing that collusion exists among bidders. The Owner may, or may not, accept future bids for the same services or commodities from participants in such collusion.
- 1.18. Disqualification of Bidders:** A Bid will not be accepted from, nor shall a Contract be awarded to, any person, firm, or corporation that is in arrears to the Owner, upon debt or contract, or that has defaulted, as surety or otherwise, upon any obligation to the Owner, or that is deemed irresponsible or unreliable.

Bidders may be required to submit satisfactory evidence that they are responsible, have a practical knowledge of the project bid upon and that they have the necessary financial and other resources to complete the proposed Work.

Either of the following reasons, without limitation, shall be considered sufficient to disqualify a Bidder and Bid:

- a. More than one Bid is submitted for the same Work from an individual, firm, or corporation under the same or different name; and
 - b. Evidence of collusion among Bidders. Any participant in such collusion shall not receive recognition as a Bidder for any future work of the Owner until such participant has been reinstated as a qualified bidder.
- 1.19. Public Disclosure Record:** If the bidder has knowledge of their employee(s) or sub-contractors having an immediate family relationship with a City/County employee or elected official, the bidder 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 City/County.

2. General Contract Conditions for Construction Projects

- 2.1. The Contract:** This Invitation for Bid, submitted documents, and any negotiations, when properly accepted by the City/County, shall constitute a contract equally binding between the City/County and Contractor. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral. The contract may be amended or modified with Change Orders, Field Orders, or Addendums.
- 2.2. The Work:** The term Work includes all labor necessary to produce the construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in such construction.
- 2.3. Execution, Correlation, Intent, and Interpretations:** The Contract Documents shall be signed in not less than triplicate by the Owner (City/County) and Contractor. City/County will provide the contract. By executing the contract, the Contractor represents that he/she has visited the site, familiarized himself with the local conditions under which the Work is to be performed, and correlated his 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 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 City/County are, and shall remain, City/County property. They are not to be used on any other project, and with the exception of one contract set for each party to the contract, are to be returned to the owner on request at the completion of the work.
- 2.4. The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout the Contract Documents. The term Owner means the Owner or his authorized representative. The Owner shall, at all times, have access to the work wherever it is in preparation and progress. The Contractor shall provide facilities for such access. The Owner will make periodic visits to the site to familiarize himself generally with the progress and quality of work and to determine, in general, if the work is proceeding in accordance with the contract documents. Based on such observations and the Contractor's Application for Payment, the Owner will determine the amounts owing to the Contractor and will issue Certificates for Payment in such amounts, as provided in the contract. The Owner will have authority to reject work which does not conform to the Contract documents. Whenever, in his reasonable opinion, he considers it necessary or advisable to insure the proper implementation of the intent of the Contract Documents, he will have authority to require the Contractor to stop the work or any portion, or to require special inspection or testing of the work, whether or not such work can be then be fabricated, installed, or completed. The Owner will not be responsible for the acts or omissions of the Contractor, and sub-Contractor, or any of their agents or employees, or any other persons performing any of the work.
- 2.5. Contractor:** The Contractor is the person or organization 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.

- 2.6. Sub-Contractors:** A 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.
- 2.7. Award of Sub-Contractors & Other Contracts for Portions of the Work:** Contractor shall submit with their bid response to the Owner, in writing for acceptance, a list of the names of the sub-contractors or other persons or organizations proposed for such portions of the work as may be designated in the proposal requirements, or, if none is so designated, the names of the sub-contractors proposed for the principal portions of the work. Prior to the award of the contract, the Owner shall notify the successful Contractor in writing if, after due investigation, has reasonable objection to any person or organization on such list. If, prior to the award of the contract, the Owner has a reasonable and substantial objection to any person or organization on such list, and refuses in writing to accept such person or organization, the successful Contractor may, prior to the award, withdraw their proposal without forfeiture of proposal security. If the successful Contractor submits an acceptable substitute with an increase in the proposed price to cover the difference in cost occasioned by the substitution, the Owner may, at their discretion, accept the increased proposal or may disqualify the Contractor. If, after the award, the Owner refuses to accept any person or organization on such list, the Contractor shall submit an acceptable substitute and the contract sum shall be increased or decreased by the difference in cost occasioned by such substitution and an appropriate Change Order shall be issued. However, no increase in the contract sum shall be allowed for any such substitution unless the Contractor has acted promptly and responsively in submitting a name with respect thereto prior to the award.
- 2.8. Quantities of Work and Unit Price:** Materials or quantities stated as unit price items in the Bid are supplied only to give an indication of the general scope of the Work, and are as such, estimates only. The Owner does not expressly or by implication agree that the actual amount of Work or material will correspond therewith, and reserves the right after award to increase or decrease the quantity of any unit item of the Work without a change in the unit price except as set forth in Article VIII, Section 70 of the *General Contract Conditions*. The City also reserves the right to make changes in the Work (including the right to delete any bid item in its entirety or add additional bid items) as set forth in Article VIII, Sections 69 through 71 of the *General Contract Conditions*.
- 2.9. Substitutions:** The materials, products and equipment described in the *Solicitation Documents* shall be regarded as establishing a standard of required performance, function, dimension, appearance, or quality to be met by any proposed substitution. No substitution will be considered prior to receipt of Bids unless the Offeror submits a written request for approval to the City Purchasing Division at least ten (10) days prior to the

date for receipt of Bids. Such requests for approval shall include the name of the material or equipment for which substitution is sought and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for evaluation, including samples if requested. The Offeror shall set forth changes in other materials, equipment, or other portions of the Work including changes of the work of other contracts, which incorporation of the proposed substitution would require to be included. The Owner's decision of approval or disapproval of a proposed substitution shall be final. If the Owner approves a proposed substitution before receipt of Bids, such approval will be set forth in an Addendum. Offerors shall not rely upon approvals made in any other manner.

- 2.10. Supervision and Construction Procedures:** The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- 2.11. Warranty:** The Contractor warrants to the Owner that all materials and equipment furnished under this contract will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All work not so conforming to these standards may be considered defective. If required by Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. If within ten (10) days after written notice to the Contractor requesting such repairs or replacement, the Contractor should neglect to make or undertake with due diligence to the same, the City may make such repairs or replacements. All indirect and direct costs of such correction or removal or replacement shall be at the Contractor's expense. The Contractor will also bear the expenses of making good all work of others destroyed or damaged by the correction, removal or replacement of his defective work.
- 2.12. Permits, Fees, & Notices:** The Contractor shall secure and pay for all permits, governmental 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, he shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by approximate modification. 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, he shall assume full responsibility and shall bear all costs attributable.
- 2.13. Responsibility for Those Performing the Work:** The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all sub-contractors, their agents and employees, and all other persons performing any of the work under a contract with the Contractor.
- 2.14. 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.

2.15. Cleanup: The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of work he shall remove all his waste materials and rubbish from and about the project, as well as all his tools, construction equipment, machinery and surplus materials.

2.16. Insurance: The Contractor shall secure and maintain such insurance policies as will provide the coverage and contain other provisions specified in the General Contract Conditions, or as modified in the Special Contract Conditions.

The Contractor shall file a copy of the policies or Certificates of Insurance acceptable to the City with the Engineer within ten (10) Calendar Days after issuance of the Notice of Award. These Certificates of Insurance shall contain a provision that coverage afforded under the policies shall not be canceled unless at least thirty (30) Calendar Days prior written notice has been given to the City.

2.17. Indemnification: The Contractor 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 Contractor, or of any Contractor's agent, employee, sub-contractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Contractor shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.

2.18. Miscellaneous Conditions: Material Availability: Contractors must accept responsibility for verification of material availability, production schedules, and other pertinent data prior to submission of bid. It is the responsibility of the bidder to notify the Owner immediately if materials specified are discontinued, replaced, or not available for an extended period of time. OSHA Standards: All bidders 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.

2.19. Time: Time is of the essence with respect to the time of completion of the Project and any other milestones or deadline which are part of the Contract. It will be necessary for each Bidder to satisfy the City of its ability to complete the Work within the Contract Time set forth in the Contract Documents. The Contract Time is the period of time allotted in the Contract Documents for completion of the work. The date of commencement of the work is the date established in a Notice to Proceed. If there is no Notice to Proceed, it shall be the date of the Contract or such other date as may be established therein, or as established as entered on the Bid Form. The Date of Substantial Completion of the work or designated portions thereof is the date certified by the Owner when construction is sufficiently complete, in accordance with the Contract Documents.

- 2.20. Progress & Completion:** The Contractor shall begin work on the date of commencement as defined in the Contract, and shall carry the work forward expeditiously with adequate forces and shall complete it within the contract time.
- 2.21. 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 he 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.
- 2.22. Bid Bond:** Each Bid shall as a guaranty of good faith on the part of the Bidder be accompanied by a Bid Guaranty consisting of: a certified or cashier's check drawn on an approved national bank or trust company in the state of Colorado, and made payable without condition to the City; or a **Bid Bond** written by an approved corporate surety in favor of the City. The amount of the Bid Guaranty shall not be less than 5% of the total Bid amount. Once a Bid is accepted and a Contract is awarded, the apparent successful bidder has ten calendar days to enter into a contractor in the form prescribed and to furnish the bonds with a legally responsible and approved surety. Failure to do so will result in forfeiture of the Bid Guaranty to the City as Liquidated Damages.

Each bidder shall guaranty its total bid price for a period of sixty (60) Calendar Days from the date of the bid opening.

- 2.23. 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 signed 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.
- 2.24. 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.

2.25. Liquidated Damages for Failure to Enter Into Contract: CITY ONLY Should the Successful Bidder fail or refuse to enter into the Contract within ten Calendar Days from the issuance of the Notice of Award, the City shall be entitled to collect the amount of such Bidder's Bid Guaranty as Liquidated Damages, not as a penalty but in consideration of the mutual release by the City and the Successful Bidder of all claims arising from the City's issuance of the Notice of Award and the Successful Bidder's failure to enter into the Contract and the costs to award the Contract to any other Bidder, to readvertise, or otherwise dispose of the Work as the City may determine best serves its interest.

2.26. Liquidated Damages for Failure to Meet Project Completion Schedule: CITY ONLY 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 **\$350.00** 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.

- 2.27. 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.
- 2.28. 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, he shall restore, at his 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.
- 2.29. 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, the contract sum and the contract time being adjusted accordingly. 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. The contract sum and the contract time may be changed only by Change Order.

- 2.30. Claims for Additional Cost or Time:** If the Contractor wishes to make a claim for an increase in the contract sum or an extension in the contract time, he shall give the Owner written notice thereof within a reasonable time after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the work, except in an emergency endangering life or property in which case the Contractor shall precede in accordance with the regulations on safety. No such claim shall be valid unless so made. Any change in the contract sum or contract time resulting from such claim shall be authorized by Change Order.
- 2.31. 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.
- 2.32. Field Orders:** The Owner may issue written Field Orders which interpret the Contract Documents in accordance with the specifications, or which order minor changes in the work in accordance with the agreement, without change in the contract sum or time. The Contractor shall carry out such Field Orders promptly.
- 2.33. Uncovering & Correction of Work:** The Contractor shall promptly correct all work rejected by the Owner as defective or as failing to conform to the contract documents whether observed before or after substantial completion and whether or not fabricated installed or competed. The Contractor shall bear all costs of correcting such rejected work, including the cost of the Owner's additional services thereby made necessary. If within one (1) year after the date of completion or within such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the contract documents, any of the work found to be defective or not in accordance with the contract documents, the Contractor shall correct it promptly after receipt of a written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discover 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. The Contractor shall bear the cost of making good all work of separate Contractors destroyed or damaged by such removal or correction. If the Owner prefers to accept defective or non-conforming work, he may do so instead of requiring its removal and correction, in which case a Change Order will be issued to reflect an appropriate reduction in the payment or contract sum, or, if the amount is determined after final payment, it shall be paid by the Contractor.
- 2.30. 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 amendments to the contract shall be made in writing by the Owner.
- 2.31. Assignment:** The Contractor shall not sell, assign, transfer or convey any contract resulting from this IFB, in whole or in part, without the prior written approval from the Owner.

- 2.32. Compliance with Laws:** Bids 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.
- 2.33. 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.
- 2.34. Conflict of Interest:** No public official and/or City/County employee shall have interest in any contract resulting from this IFB.
- 2.35. 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.
- 2.36. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Contractor, by submitting a Bid, agrees to the following conditions:
- 2.36.1.** The Contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, handicap, or national origin except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Contractor. The Contractor agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
- 2.36.2.** The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, shall state that such Contractor is an Equal Opportunity Employer.
- 2.36.3.** 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.
- 2.37. Affirmative Action:** In executing a Contract with the City, the Contractor agrees to comply with Affirmative Action and Equal Employment Opportunity regulations presented in the General Contract Conditions.
- 2.38. 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).
- 2.39. Ethics:** The Contractor 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.

- 2.40. Failure to Deliver:** In the event of failure of the Contractor 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 Contractor 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.
- 2.41. 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.
- 2.42. Force Majeure:** The Contractor 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 Contractor, unless otherwise specified in the contract.
- 2.43. Independent Contractor:** The Contractor shall be legally considered an Independent Contractor and neither the Contractor 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 Contractor, its servants, or agents. The Owner shall not withhold from the contract payments to the Contractor any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Contractor. Further, the Owner shall not provide to the Contractor any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.
- 2.44. Nonconforming Terms and Conditions:** A bid that includes terms and conditions that do not conform to the terms and conditions of this Invitation for Bid is subject to rejection as non-responsive. The Owner reserves the right to permit the Contractor to withdraw nonconforming terms and conditions from its bid prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.

Items for non-responsiveness may include, but not be limited to:

- a. Submission of the Bid on forms other than those supplied by the City;
- b. Alteration, interlineation, erasure, or partial detachment of any part of the forms which are supplied herein;
- c. Inclusion of unauthorized additions conditional or alternate Bids or irregularities of any kind which may tend to make the Bid incomplete, indefinite, or ambiguous as to its meaning;
- d. Failure to acknowledge receipt of any or all issued Addenda;
- e. Failure to provide a unit price or a lump sum price, as appropriate, for each pay item listed except in the case of authorized alternative pay items;

- f. Failure to list the names of Subcontractors used in the Bid preparation as may be required in the Solicitation Documents;
- g. Submission of a Bid that, in the opinion of the Owner, is unbalanced so that each item does not reasonably carry its own proportion of cost or which contains inadequate or unreasonable prices for any item;
- h. Tying of the Bid with any other bid or contract; and
- i. Failure to calculate Bid prices as described herein.

2.45. Evaluation of Bids and Offers: The Owner reserves the right to:

- reject any and all Bids,
- waive any and all informalities,
- negotiate final terms with the Successful Bidder, and
- disregard any and all nonconforming, nonresponsive or conditional Bids.

Discrepancies between words and figures will be resolved in favor of words. Discrepancies between Unit Prices and Extended Prices will be resolved in favor of the Unit Prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. The corrected extensions and totals will be shown in the tabulation of Bids.

The Owner may consider the qualifications and experience of Subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work as to which the identity of Subcontractors and other persons and organizations must be submitted. Operating costs, maintenance considerations performance data, and guarantees of materials and equipment may also be considered by the Owner.

The Owner will conduct such investigations as deemed necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of the Offeror, proposed Subcontractors and other persons and organizations to do the Work in accordance with the *Contract Documents* to the City's satisfaction within the Contract Time.

The Offeror shall furnish the Owner all information and data requested by the Owner to determine the ability of the Offeror to perform the Work. The Owner reserves the right to reject the Bid if the evidence submitted by, or investigation of such Offeror fails to satisfy the Owner that such Offeror is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein.

By submitting a Bid, each Offeror authorizes the Owner to perform such investigation of the Offeror as the Owner deems necessary to establish the responsibility, qualifications and financial ability of the Offeror and, by its signature thereon, authorizes the Owner to obtain reference information concerning the Offeror and releases the party providing such information and the Owner from any and all liability to the Offeror as a result of such reference information so provided.

The Owner reserves the right to reject the Bid of any Offeror who does not pass any evaluation to the Owner's satisfaction.

If the Contract is to be awarded, it will be awarded to the Offeror who, by evaluation, the Owner determines will best meet the Owner's interests.

The Owner reserves the right to accept or reject the Work contained in any of the Price Bid Schedules or alternates, either in whole or in part.

2.46. Award of Contract: Unless otherwise indicated, a single award will be made for all the bid items in an individual bid schedule. In the event that the Work is contained in more than one Bid Schedule, the City may award Schedules individually or in combination. In the case of two Bid Schedules which are alternative to each other, only one of such alternative Schedules will be awarded. Within forty-five (45) Calendar Days of Bid Opening, the City will issue a Notice of Award to the Successful Bidder which will be accompanied by four (4) unsigned copies of the Contract and the Performance and Payment Bond forms. Within ten (10) Calendar Days thereafter, the Successful Bidder shall sign and deliver four (4) copies of the Contract, Performance Bond, Payment Bond and Certificates of Insurance to the City. Within ten (10) Calendar Days thereafter, the City will deliver two (2) fully executed counterparts of the Contract to the Contractor. No contract shall exist between the Successful Bidder and the City and the Successful Bidder shall have no rights at law or in equity until the Contract has been duly executed by the City.

The Successful Bidder's failure to sign and submit a Contract and other documents set forth in this Paragraph within the prescribed time shall be just cause of annulment of the award, and forfeiture of the Bid Guaranty. The award of Contract may then be made to the next qualified Bidder in the same manner as previously prescribed.

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

2.48. 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.

2.49. Patents/Copyrights: The Contractor 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 Contractor 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 IFB.

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

2.51. Venue: Any agreement as a result of responding to this IFB 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.

- 2.52. Expenses:** Expenses incurred in preparation, submission and presentation of this IFB are the responsibility of the company and cannot be charged to the Owner.
- 2.53. 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.
- 2.54. Non-Appropriation of Funds:** The contractual obligation of the Owner under this contract is contingent upon the availability of appropriated funds from this fiscal year budget as approved by the City Council or Board of County Commissioners from this fiscal year only. State of Colorado Statutes prohibit obligation of public funds beyond the fiscal year for which the budget was approved. Anticipated expenditures/obligations beyond the end of the current Owner's fiscal year budget shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- 2.55. Cooperative Purchasing:** Purchases as a result of this solicitation are primarily for the City/County. 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 Bid. The quantities furnished in this bid document are for only the City/County. It does not include quantities for any other jurisdiction. The City or County will be responsible only for the award for its 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 City/County 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.
- 2.56. 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).

2.56.1. "Public 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.

3. Statement of Work

3.1. PROJECT DESCRIPTION: The project generally consists of 3570 Lineal feet of sewer main line ranging from 6-inch to 18-inch diameter of SDR 35 PVC pipe, 21 48" ID sanitary sewer manhole 13 60" ID sanitary sewer manholes, 40 sewer connections, 950 lineal feet of 4" SDR 35 PVC service line, 150 lineal feet of 6-inch and 12-inch waterline, 110 lineal feet of 12-inch storm line 1 48 inch ID storm manhole, 1235 SY of concrete replacement for driveway and sidewalk ADA compliance, gravel and asphalt road surfaces, roadway shoulders, and landscaped areas. In addition, all of the roads within this contract will be milled and resurfaced as part of this project.

3.2. SPECIAL CONDITIONS & PROVISIONS:

3.3.1 Mandatory Pre-Bid Meeting: Prospective bidders are required to attend a mandatory pre-bid meeting on February 7, 2017 at 10:00am. Meeting location shall be in the City Hall Auditorium, located at 250 N. 5th Street, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).

3.3.2 QUESTIONS REGARDING SOLICIATION PROCESS/SCOPE OF WORK:

Duane Hoff Jr., Senior Buyer
City of Grand Junction
duaneh@gjcity.org

3.3.2 Project Manager: The Project Manager for the Project is Justin Vensel, Project Engineer, who can be reached at (970)256-4017. During Construction, all notices, letters, submittals, and other communications directed to the City shall be addressed and mailed or delivered to:

City of Grand Junction
Department of Public Works and Planning
Attn: Justin Vensel, Project Engineer
250 North Fifth Street
Grand Junction, CO 81501

3.3.3 Affirmative Action: The Contractor is not required to submit a written Affirmative Action Program for the Project.

3.3.4 Pricing: Pricing shall be all inclusive to include but not be limited to: all labor, equipment, supplies, materials, freight (F.O.B. Destination – Freight Pre-paid and Allowed to each site), travel, mobilization costs, fuel, set-up and take down costs, and full-time inspection costs, and all other costs related to the successful completion of the project.

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.

3.3.5 Freight/Shipping: All freight/shipping shall be F.O.B. Destination – Freight Pre-Paid and Allowed to the project site(s), Grand Junction, CO.

Contractor must meet all federal, state, and local rules, regulations, and requirements for providing such services.

3.3.6 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.

3.3.7 Time of Completion: The scheduled time of Completion for the Project is **100 Calendar Days** from the starting date specified in the Notice to Proceed.

Completion is achieved when site cleanup and all punch list items (resulting from the final inspection) have been completed. Completion shall have the meaning set forth in Article I, Section 3 (Definitions and Terms) of the General Contract Conditions.

3.3.8 Working Days and Hours: The working days and hours shall be as stated in the General Contract Conditions or as mutually agreed upon in the preconstruction meeting with the following exception:

All work shall be performed between the hours of 7:00 AM to 5:00 PM.

3.3.9 Licenses and Permits: Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractor's expense. See

Section 2.10. Contractor shall supply to Owner all copies of finalized permits.

3.3.10 Permits: The following permits are required for the Project and will be obtained by the City at no cost to the Contractor:

None

The following permits are required for the Project and shall be obtained and paid for by the Contractor, with the costs included in the total bid price for the Project:

None

3.3.11 City Furnished Materials: The City will furnish the following materials for the Project:

- Detectable Warnings (Cast Iron Wet Set)
- Variable message boards for upcoming construction locations

3.3.12 Project Newsletters: A newsletter for the Project will be prepared and distributed by the City. It will include general information about the Project including interruptions in utility services, street closures, parking restrictions, project schedule, and the names and telephone numbers of the contacts for the City and Contractor. The newsletter will be mailed approximately one week before the Contractor commences work.

The Contractor shall then prepare and mail a weekly newsletter until the project is completed. The Contractor's first newsletter shall be mailed one week prior to beginning work on the Project. For this project, the approximate number of newsletters to be printed and mailed by the Contractor is 20-80 per week.

Newsletters shall be printed on the Contractor's letterhead. Each newsletter shall include the following information:

1. Description of work completed during the previous week
2. Description of work scheduled for the upcoming week
3. Information about any road closures, detours, parking restrictions and other activities that may cause delay or inconvenience to the neighborhood or the general public
4. Scheduled or planned interruption changes in any utility services, trash pickup, mail delivery or other services
5. Project schedule changes or other information that may be useful or of interest

A draft of each newsletter shall be given to the Project Engineer for review at least one day before the letter is to be mailed. The Contractor shall make any corrections or additions to the final newsletter as requested by the Engineer.

3.3.13 Project Sign: Project signs, if any, will be furnished and installed by the City.

3.3.14 Authorized Representatives of the City: Those authorized to represent the

City shall include Purchasing Agent, Engineers, and Inspectors employed by the City, only.

3.3.15 Stockpiling Materials and Equipment: All stockpiling/storage shall be in accordance with General Contract Condition Section 51.

3.3.16 Traffic Control: The Contractor shall provide and maintain traffic control in accordance with the approved Traffic Control Plan and the Manual on Uniform Traffic Control Devices. A Traffic Control Plan shall be prepared by the Contractor and reviewed by the City two days prior to the pre-construction meeting.

1. The contractor shall maintain access to all properties at all times unless otherwise approved by the City per General Contract Condition 26. All trenches shall be backfilled or protected at the end of each working day and access restored to all driveways. If trenches are left open at night, they will be limited to 30 feet in length. The entire perimeter of the excavation shall be barricaded with construction equipment or temporary construction fence. At all times during the project, the contractor must ensure access is available for the U.S. Postal Service, trash trucks, emergency vehicles, etc., per the General Contract Conditions.
2. The Contractor shall adhere to all traffic control requirements when working within City right-of-way and CDOT right-of-way.
3. Roads may be closed that have a confined amount construction area for through traffic only. Local traffic shall have access at all times with the exception of construction immediately adjacent to their property access.

3.3.17 Clean-Up: The Contractor is responsible for cleaning up all loose materials that have been deposited or swept into gutters, and onto sidewalks and driveways as a result of sidewalk operations. The costs for all clean-up work shall be considered incidental and will not be paid for separately.

3.3.18 Quality Control Testing: Supplier shall perform quality control testing on the following items as specified in the General Contract Documents for Capital Improvement Projects as specified for Part time inspection:

- Backfill
- Class 6
- Concrete
- Asphalt

The City will perform/contract Quality Assurance for this project.

3.3.19 Schedule of Submittals: Contractor shall deliver these submittals at least two days prior to the pre-construction meeting:

- Traffic Control Plans
- Project Schedule

3.3.20 Uranium Mill Tailings: It is anticipated that radioactive mill tailings will not be encountered on this Project.

3.3.21 Fugitive Petroleum or Other Contamination: It is anticipated that soil contamination from fugitive petroleum or other contaminants will not be encountered with the Project.

3.3.22 Excess Material: All excess materials shall be disposed in accordance with General Contract Condition Section 50.

3.3.23 Existing Utilities and Structures: Utilities were not potholed during design of this project. The location of existing utilities and structures shown on the Plans is approximate with the information gathered during design. It is the responsibility of the Contractor to pothole/locate and protect all structures and utilities in accordance with General Contract Condition Section 37.

3.3.24 Interruption of utilities and services: The contractor shall notify all property owners affected by the interruption of utilities and other services caused by his operation. Such notice shall be given at least 24 hours prior to the interruption. Notice shall be given for, but not limited to the interruption of domestic water, sanitary sewer, trash pickup, mail delivery and changes in access to the property.

The Contractor will be required to notify property owners/tenants and City of Grand Junction Sanitation Division, 970-244-1570, when the alley will be blocked due to construction and direct them to move trash containers to the street for pickup. When alley construction is complete and the alley is open to traffic, the Contractor shall notify property owners/tenants to move their trash containers back to the alley for pickup. The Contractor should use door hangers and notify the property/owner tenant at least 24 hours in advance of their trash pickup to move their containers to the street. The door hanger should note the date that trash pickup will be moved to the street from the alley.

3.3.25 Sanitary Sewer Service Locations: The location of sewer services shown on the construction drawings are based on TV video of the existing sanitary sewer main. Unfortunately, due to poor condition of the existing sewer main line not all services were able to be located. The Contractor shall determine which services are active and which are inactive by using dye, tracing the line with a snake and locator, or smoking the service. The Contractor shall notify and obtain permission from the property owner prior to placing dye or smoke in the service. The Construction drawings show approximate locations of services within the ROW. Prior to cutting and removal of the asphalt or concrete the contractor shall verify the location of the service connections.

3.3.26 Incidental Items: Any item of work not specifically identified or paid for directly, but which is necessary for the satisfactory completion of any paid items of work, will be considered as incidental to those items, and will be included in the cost of those items.

3.3.27 Manholes: The selected streets are scheduled to be overlaid in early summer. For this face the contractor will not be required to have the tight tolerance for adjustment

as previously required on other projects. All Manholes will be adjust to within ½” of final asphalt surface and shall not be grouted in place.

3.3.28 Section 202 – Removal of Structures and Obstructions:

Section 202 of the Standard Specifications for Road and Bridge Construction is hereby revised for this Project as follows:

Add the following:

Removal and Disposal of Sanitary Sewer Manhole

Remove manhole ring and cover, grade rings, cone, risers, and base. Salvageable manhole ring and cover shall be returned to City Shops. Backfill excavation with backfill meeting Section 103.16, Earth Backfill Material, and compact if manhole will not be replaced with a new manhole.

Method Measurement

Add the following paragraph:

Manholes to be removed and replaced in like locations shall not be measured or paid for separately. The removal shall be considered incidental to the project.

Removal and disposal of Sanitary Sewer Manholes that are not in the same location as the existing will be measured by each manhole removed and not replaced.

Basis of Payment

<u>Pay Item</u>	<u>Pay Unit</u>
Removal of Manhole (No reinstallation)	Each

3.3.29 Section 208 – Erosion Control:

Section 208 of the Standard Specifications is hereby revised for this project as follows:

208 Method of Measurement shall include the following:

Measurement for stabilized construction entrance shall be for the areas that are required per the storm water management plan.

208 Basis of Payment shall include the following:

<u>Pay Item</u>	<u>Pay Unit</u>
Stabilized Construction Entrance	Each

Add the following to this subsection:

208.05(n) Add the Following:

Concrete Washout Structure:

Water for clean-up of equipment used in the mixing or distribution of concrete shall not be discharged to any storm water facilities, drain ways, or deposited into any open fields. The waste water used shall either be wasted on an open excavation area or in an onsite detention facility for future disposal.

Subsection 208.08 Payment for Best Management Practices.

The disposal of wash water shall be considered incidental to the concrete and will not be measured for or paid for separately.

Add the following to this subsection:

<u>Pay Item</u>	<u>Pay Unit</u>
Erosion Control (Complete In Place)	Lump Sum

The lump sum price for Erosion Control (complete in place) shall be in full compensation for the Erosion Control Supervisor and all materials, labor and equipment required to furnish, install, maintain, remove and dispose of erosion and settlement control features and Best Management Practices (BMP's) in accordance with the Stormwater Management Plan (SWMP), State and local permits, and the contract documents.

Erosion Control (Complete in Place) shall include storm drain inlet protection and the concrete washout structure.

3.3.30 Section 209 – Watering and Dust Palliatives:

Section 209 of the Standard Specifications is hereby revised for this project as follows:

209.07 Method of Measurement shall include the following:

Measurement for dust palliatives shall be based on the number of days applied. If dust control is not necessary there will be no payment for the days it is not necessary.

209.08 Basis of Payment shall include the following:

<u>Pay Item</u>	<u>Pay Unit</u>
Dust Abatement	DAY

Dust abatement required beyond the specified contract time will not be paid for unless authorized in advance by a Work Change Authorization or Change Order.

3.3.31 Section 601 – Structural Concrete:

Section 601 of the Standard Specifications is hereby revised for this project as follows:

Subsection 601.02, Classification:

CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

- 4,500 PSI Compressive at 28 Days
- 6% air \pm 1.5%
- Slump 4", Loads exceeding 4 ½" shall be rejected
- Maximum Water Cement Ratio no greater than 0.45.

Subsection 601.06, Batching:

This CDOT Specification has been added to this Project:

The Contractor shall furnish a batch ticket (delivery ticket) with each load for all concrete. Concrete delivered without a batch ticket containing complete information as specified shall be rejected. The Contractor shall collect and complete the batch ticket at the placement site and deliver all batch tickets to the Engineer or his representative at the end of each day. The Engineer or his representative shall have access to the batch tickets at any time during the placement. The following information shall be provided on each ticket:

1. Suppliers name and date
2. Truck number
3. Project name and location
4. Concrete class and designation number
5. Cubic yards batched
6. Type brand and amount of each admixture
7. Type, brand, and amount of cement and fly ash
8. Weights of fine and course aggregates
9. Moisture of fine and course aggregates
10. Gallons of batch water

The contractor shall add the following information to the batch ticket at time of placement:

1. Gallons of water added by the truck operator.
2. Number of revolutions of the drum for mixing
3. Discharge time

3.3.32 Section 608 – Curbs, Gutters, Sidewalks, and Bikeways:

Section 608 of the Standard Specifications is hereby revised for this project as follows:

608.06, Basis of Payment shall include the following:

The Contract Unit Price for the various concrete items shall be full compensation for all equipment, labor, materials, and incidentals required for the complete installation. Incidental items include clearing; excavating to subgrade, subgrade compaction, cutting and removal of asphalt in areas where concrete will be installed, disposal of excavated and removed materials; furnishing, placement and compaction of Aggregate Base Course; forming, furnishing and placement, finishing, curing and protection of the concrete; repair to any irrigations line and or sprinkler; reinforcing steel and joint filler. The minimum thickness of class 6 base shall comply with the City Standard Documents

3.3.33 By-pass Pumping:

The proposed lines scoped for this project have flows that generally a 6” pump can handle. The size of the lines on 4th Street 7th Street and 9th Street were combined storm/sewer lines prior to 2004 at which time the lines became primarily sanitary lines with a small amount of catch-basins still attached in them.

3.3.34 Section 103 – Removals, Excavation, Backfill and Restoration:

Add the following:

103.4 Bracing and Sheeting of Trenches

Add the following:

Trench wall support will be required when installing all new pipeline included in this project. The Contractor shall provide trench boxes, sheet piles and bracing, or other approved method of supporting trench walls that will limit the top width of any trench to a maximum of six (6) feet. Payment for trench bracing by the Contractors chosen method shall be included in the lineal foot pipe price for all pipe installed in this contract. Bracing required for manhole installation shall be included in the price of the manhole.

103.10 Cutoff Walls.

Add the following:

The cost of installing cutoff walls shall be incidental to the cost of pipe installation.

103.16 Earth Backfill Material (Imported Trench Backfill).

Add the following:

Material excavated on site shall not be used in the trench backfill if determined to be unsuitable by the Engineer or his representative. The excavated material shall be hauled off site to a location secured by the Contractor and approved by the Project Engineer. Imported Trench Backfill shall be pitrun or other approved material meeting the requirements of Section 103.16. During placement of imported backfill over the initial backfill material (Type A) that extends to 6 inches above the top of the pipe, the Contractor shall not place any rocks over 4 inches in diameter within the first 12 inches above the initial backfill material to protect the pipe from damage.

103.17 Restoration of Grounds.

Add the following:

The Contractor shall restore all permanent utility easement areas as noted on the *Construction Drawings* and *Contract Documents*. The Contractor shall restore all temporary construction easement areas to their pre-construction condition and as noted on the *Construction Drawings* and *Contract Documents* with the exception of items that were removed with the permission of the property owner after compensation values were established. There will be no additional payment made for restoration of sod/landscaping, gravel, concrete or asphalt driveways, irrigation/sprinkler systems, decorative borders, fences, etc. outside the permanent and/or temporary construction easements.

103.21 Site Access.

Add the following:

Site access as shown on the *Construction Drawings* is limited for conventional trench replacement construction for sections of existing sewer line to be replaced that have no open (alley) access where the fences have been set back.

In these areas under conventional trenching, the Contractor will have to remove all items noted on the *Construction Drawings* for removal including vegetation, trees, bushes, fences, storage sheds, sod, landscape gravel, landscape items, sprinkler systems, etc. to have access to both ends of the existing sewer line to be replaced.

In these areas under burst replacement, the Contractor will have to use the existing easements (alley) access and the temporary construction easements as shown on the drawings to access the existing manholes, replace the existing manholes were shown, install the new sewer line and reconnect the existing services. The Contractor will have to remove all items noted on the *Construction Drawings* for removal including vegetation, trees, bushes, fences, storage sheds, sods, landscape gravel, landscape items, sprinkler systems, etc. to have access for launching/receiving pits and service reconnections. Temporary construction fences shall be installed at locations noted on the *Construction Drawings*.

3.3.35 Section 104 – Installation of Pipe and Appurtenances:

Add the following to **104.2.b Installation of Sewer Service Lines:**

Verification of Active Taps. The Contractor shall verify the existing sewer taps that are active by smoke testing, use of dye, inserting a snake through a clean-out or roof vent and tracing to sewer main, etc. and only connect the active taps. There will be no separate measurement or payment for this work which will be considered incidental.

In the event that the sanitary service line is PVC pipe present at the main the contractor shall verify that the PVC pipe extends to the ROW. Provided PVC pipe is verified to the ROW the Contractor is instructed to install a two way cleanout at the ROW line as shown in the standard details SS-06.

Basis of Payment shall include the following:

Shall include but not limited to the following: Two-way Cleanout vertical stand pipe, connection at the cleanout, cap, and equipment, materials and all necessary labor required to complete the operation.

<u>Pay Item</u>	<u>Pay Unit</u>
Installation of Clean-out	EA

Sanitary Sewer Service lines crossing AC water lines. In the event that a sanitary service line crosses perpendicular to an AC water line and is below the water line, the contractor shall be required to fill the annular area from the top of the haunching material to the spring line of

the AC waterline with flow fill. This work is to be considered incidental and will not be paid for as a unit item.

Add the following to **104.3.a Laying Pressure Pipe:**

In areas where the existing AC water line crosses the new sewer line the contractor shall remove that section of AC water line and replace with same size C-900 PVC pipe. Connections shall be made using solid sleeve couplers 18 inches in length.

Basis of Payment shall include the following:

Shall include but not limited to the following: removal and disposal of AC pipe, new PVC pipe, and equipment, materials and all necessary labor required to complete the operation.

<u>Pay Item</u>	<u>Pay Unit</u>
6" Water Pipe (C-900 PVC)	LF
12" Water Pipe (C-900 PVC)	LF

3.3.36 Section 105 – Pipeline Testing:

Delete Section 105.2. The City of Grand Junction will not require the new sanitary sewer main to be pressure or leakage tested.

All sanitary sewer mains shall be deflection tested per section 105 and will be closed captioned inspected prior to final acceptance.

3.3.37 Geotechnical Testing SP-1:

As part of this project the contractor shall be required to supply testing for Quality Control in accordance with the minimum frequencies defined by City of Grand Junction Standard Specifications. The testing agency shall meet the minimum requirements as stated in the standard specifications section. A submittal of qualified personnel shall be turned in at the preconstruction meeting. This submittal shall include all certifications held by the tester assigned to the project.

Method of Measurement:

Testing for quality control will not be measured but will be paid for on a lump sum basis.

Basis of Payment shall include the following:

Shall include random site locations and meet the minimum frequencies set forth in the Road and Bridge section of the Standard Specifications with the following addition: Portland Concrete shall be tested using the following frequencies:

Test Required	Test Frequency
Slump	Daily
Air	Daily
Water/Cement	Per Truck
Compressive Strength	Minimum of one per area location unless otherwise directed

A report shall be generated by the testing firm that documents tests including re-tests results or nay failed tests, included in the test shall be locations and results. The test shall be presented to the Project Engineer prior to final payment or acceptance of the project.

<u>Pay Item</u>	<u>Pay Unit</u>
Quality Control Testing	Lump Sum

3.3.38 Repair Sag SP-3:

As depicted on Sheet 6 25 Road has a sag in the line that is need of repair. To allow for trench boxes at this location the Plans show to remove 26’ feet of material longitudinal to the pipe. The contractor is required to give a minimum of 48 hours’ notice prior to the work in order for City crews to schedule for camera work to ensure the sag is repaired.

<u>Pay Item</u>	<u>Pay Unit</u>
Repair Sag	Lump Sum

3.3.39 Existing Concrete Sidewalks, Pans, Fillets, Curbs and Gutters: The existing sidewalks, pans, fillets, curb and gutter are in good serviceable condition. In most instances the installation of new sidewalk and pavement will be adjacent to existing concrete. The Contractor will need to protect all concrete adjacent to construction. If the concrete is damaged during construction the Contractor will be responsible for its replacement at no cost to the City. The Contractor, the City Project Inspector, and/or the City Project Manager will walk and record any concrete that is deemed to be damaged before construction has started.

3.3.40 ACI Concrete and Flatwork Finisher and Technician: Hand finishing concrete will be permitted only when performed under the direct supervision of a craftsman holding the following certificate: ACI Concrete Flatwork Finisher and Technician (ACICFFT) or other Flatwork Finisher certification program approved by the City Engineering Manager.

3.3. SCOPE OF WORK: The plans show installation of Cast In Place Pipe (CIPP) on several sheets. This section of work will be on a separate contract and is not included in this scope of work. The pipe is shown for depths of manholes, removal of manholes no longer needed and repair to roadway surface.

3.4. IFB TENTATIVE TIME SCHEDULE:

Invitation For Bids available	January 19, 2017
Mandatory Pre-Bid Meeting	February 7, 2017
Inquiry deadline, no questions after this date	February 9, 2017
Addendum Posted	February 10, 2017
Submittal deadline for proposals	February 16, 2017
City Council or Board of Commissioners Approval	March 1, 2017
Notice of Award & Contract execution	March 2, 2017
Bonding & Insurance Cert due	February 24, 2016
Preconstruction meeting	March 3, 2017
Work begins no later than	March 6 2017
Final Completion	June 13, 2017
Holidays: Memorial Day	May 29, 2017

4. Contractor's Bid Form

Bid Date: _____

Project: IFB-4326-17-DH "2017 Sewer Line Replacement Project Phase A"

Bidding Company: _____

Name of Authorized Agent: _____

Email _____

Telephone _____ **Address** _____

City _____ **State** _____ **Zip** _____

The undersigned Bidder, in compliance with the Invitation for Bids, having examined the Instruction to Bidders, General Contract Conditions, Statement of Work, Specifications, and any and all Addenda thereto, having investigated the location of, and conditions affecting the proposed work, hereby proposes to furnish all labor, materials and supplies, and to perform all work for the Project in accordance with Contract Documents, within the time set forth and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Contractor's Bid Form is a part.

The undersigned Contractor does hereby declare and stipulate that this offer is made in good faith without collusion or connection to any person(s) providing an offer for the same work, and that it is made in pursuance of, and subject to, all terms and conditions of the Instructions to Bidders, the Specifications, and all other Solicitation Documents, all of which have been examined by the undersigned.

The Contractor also agrees that if awarded the Contract, to provide insurance certificates within ten (10) working days of the date of Notification of Award. Submittal of this offer will be taken by the Owner as a binding covenant that the Contractor will be prepared to complete the project in its entirety.

The Owner reserves the right to make the award on the basis of the offer deemed most favorable, to waive any formalities or technicalities and to reject any or all offers. It is further agreed that this offer may not be withdrawn for a period of sixty (60) calendar days after closing time. Submission of clarifications and revised offers automatically establish a new thirty day (30) period.

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 Bidder to ensure all Addenda have been received and acknowledged.

By signing below, the Undersigned agree to comply with all terms and conditions contained herein.

Company: _____

Authorized Signature: _____

Title: _____

The undersigned Bidder proposes to subcontract the following portion of Work:

<u>Name & address of Sub-Contractor</u>	<u>Description of work to be performed</u>	<u>% of Contract</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

The undersigned Bidder acknowledges the right of the City to reject any and all Bids submitted and to waive informalities and irregularities therein in the City's sole discretion.

By submission of the Bid, each Bidder certifies, and in the case of a joint Bid each party thereto certifies as to his own organization, that this Bid has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Bid Schedule: 2017 Sewer Line Replacement Phase A

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	6" Gravity Sewer Pipe (SDR-35 PVC)	100.	LF	\$ _____	\$ _____
2	108.2	8" Gravity Sewer Pipe (SDR-35 PVC)	1,865.	LF	\$ _____	\$ _____
3	108.2	12" Gravity Sewer Pipe (SDR-35 PVC)	1,335.	LF	\$ _____	\$ _____
4	108.2	15" Gravity Sewer Pipe (SDR-35 PVC)	190.	LF	\$ _____	\$ _____
5	108.2	18" Gravity Sewer Pipe (SDR-35 PVC)	72.	LF	\$ _____	\$ _____
6	108.2	4" Sanitary Sewer Pipe (SDR-35 PVC) Price to Include connections to the sewer main and existing sewer service line.	952.	LF	\$ _____	\$ _____
7	108.2	12" Storm Drain Pipe (RCP or HP Storm)	110.	LF	\$ _____	\$ _____
8	108.2	Import Trench Material	5,000.	Ton	\$ _____	\$ _____
9	108.2	Bypass Pumping	Lump sum		- - -	\$ _____
10	108.3	8" X 4" Sewer Service Tap (Full Body Wye w/ Street 45°)	35.	EA	\$ _____	\$ _____
11	108.3	12" X 4" Sewer Service Tap (Full Body Wye w/ Street 45°)	2.	EA	\$ _____	\$ _____
12	108.3	Inserta Tee(15"18" Pipe)	4.	EA	\$ _____	\$ _____
13	108.3	Sanitary Sewer Service Clean-out Ring and Cover (Castings Inc. CO8030-CI or equivalent)	40.	EA	\$ _____	\$ _____
14	108.2	6" Water Pipe (C-900 PVC)	130.	LF	\$ _____	\$ _____
15	108.2	12" Water Pipe (C-900 PVC)	20.	LF	\$ _____	\$ _____
16	108.3	6" Gate Valve	2.	EA	\$ _____	\$ _____
17	108.4	6" X 3/4" Tapping Saddle	1.	EA	\$ _____	\$ _____
18	108.3	6' X6" Tee	1.	EA	\$ _____	\$ _____
19	108.3	12" X 6" Cross	1.	EA	\$ _____	\$ _____
20	108.5	6" 45deg Elbow	4.	EA	\$ _____	\$ _____

Bid Schedule: 2017 Sewer Line Replacement Phase A

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
21	108.4	3/4" Corperation Stop	1.	EA	\$ _____	\$ _____
22	108.3	6" Fitting (Special) (Hi-Max or engineer approved equal)	2.	EA	\$ _____	\$ _____
23	108.3	12" Fitting (Special) (Hi-Max or engineer approved equal)	2.	EA	\$ _____	\$ _____
24	108.5	Storm sewer Basic Manhole (48" I.D.)	1.	EA	\$ _____	\$ _____
25	108.5	Sanitary Sewer Basic Manhole (48" I.D.)	20.	EA	\$ _____	\$ _____
26	108.5	Manhole Barrel Section (D>5')(48" I.D.)	56.	VF	\$ _____	\$ _____
27	108.5	Sanitary Sewer Basic Manhole (60" I.D.)	10.	EA	\$ _____	\$ _____
28	108.5	Manhole Barrel Section (D>5')(60" I.D.)	49.	VF	\$ _____	\$ _____
29	108.5	Sanitary Sewer Basic Drop Manhole (48" I.D.)	1.	EA	\$ _____	\$ _____
30	108.5	Drop Manhole Barrel Section (D>5')(48" I.D.)	5.6	VF	\$ _____	\$ _____
31	108.5	Sanitary Sewer Basic Drop Manhole (60" I.D.)	3.	EA	\$ _____	\$ _____
32	108.5	Drop Manhole Barrel Section (D>5')(60" I.D.)	21.	VF	\$ _____	\$ _____
33	108.5	Connect to Existing Pipe (6" VCP)	2.	EA	\$ _____	\$ _____
34	108.5	Connect to Existing Pipe (8" VCP)	5.	EA	\$ _____	\$ _____
35	108.7	Granular Stabilization Material	350.	CY	\$ _____	\$ _____
36	202	Removal of Asphalt (Cut and Remove as shown on Plans)	3,250.	SY	\$ _____	\$ _____
37	202	Removal of Concrete (Saw Cut as required and remove concrete as shown on plans)	1,081.	SY	\$ _____	\$ _____

Bid Schedule: 2017 Sewer Line Replacement Phase A

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
38	202	Remove Sod	670.	SF	\$ _____	\$ _____
39	202	Removal of Manhole (No Re-Installation) (Price to inslucе plugging existing pipes, removal of consection and backfilling with a self consolidating Material)	14.	EA	\$ _____	\$ _____
40	203	Disposal of Radioactive Material	100.	CY	\$ _____	\$ _____
41	208	Erosion Control (Complete in Place)	Lump sum		---	\$ _____
42	208	Concrete Washout	Lump sum		---	\$ _____
43	209	Dust Abatement	100.	DAY	\$ _____	\$ _____
44	212	Re-Sod Areas as Shown	670.	SF	\$ _____	\$ _____
45	304	Aggregate Base Course (Class 6) (6" thick)(BOW locations)	110.	SY	\$ _____	\$ _____
46	304	Aggregate Base Course (Class 6) (12" thick)	1,530.	SY	\$ _____	\$ _____
47	304	Aggregate Base Course (Class 6) (16" thick)	1,610.	SY	\$ _____	\$ _____
48	401	Hot Mix Asphalt (Patching)(1 " Thick) Grading SX Binder 64-22	3,140.	SY	\$ _____	\$ _____
49	401	Hot Mix Asphalt (Patching)(3" Thick) Grading SX Binder 64-22	110.	SY	\$ _____	\$ _____
50	608	Concrete Drive Over Curb and Gutter (2' Wide)	70.	LF	\$ _____	\$ _____
51	608	Monlithic Drive Over Curb Gutter and Sidewalk (Width Varies)	160.	SY	\$ _____	\$ _____
52	608	Concrete Sidewalk (4" thick)	35.	SY	\$ _____	\$ _____
53	608	Concrete Driveway Section (6" Thick)	1,040.	SY	\$ _____	\$ _____
54	620	Portable Sanitary Facility	Lump sum		---	\$ _____
55	625	Construction Surveying	Lump sum		---	\$ _____

Bid Schedule: 2017 Sewer Line Replacement Phase A

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
56	626	Mobilization		Lump sum	---	\$ _____
57	629	Survey Monument (Reference and Reset)	5.	EA	\$ _____	\$ _____
58	630	Traffic Control (Complete in Place)		Lump sum	---	\$ _____
59	630	Traffic Control Plan		Lump sum	---	\$ _____
60	630	Flagging	750.	HR	\$ _____	\$ _____
61	GCC-56	Newsletters (20-80 per distribution)(weekly)		Lump sum	---	\$ _____
62	SP1	Quality Control Testing		Lump sum	---	\$ _____
63	SP2	Installation of Clean-out (Price to Include Two way sweep, vertical extension, coupling to existing PVC Pipe and cap)	4.	EA	\$ _____	\$ _____
64	SP3	Repair sag Line Per drawing SHT 6 of plan set		Lump Sum	---	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ <u>100,000.00</u>
Bid Amount:						\$ _____

Bid Amount: _____

dollars

2017 SEWER LINE REPAIR & REPLACEMENTS PHASE A JANUARY, 2017

- 1 ——— Cover Sheet
- 2 ——— Standard Abbreviations, Legend, and Symbols
- 3 ——— Summary of Approximate Quantities
- 4 ——— Project Control Map
- 5 ——— PROJECT LOCATION MAP
- 6 ——— 25 ROAD SEWER SAG REPAIR
- 7 ——— BOOKCLIFF AVENUE SEWER
- 8-13 ——— 4TH STREET SEWER
- 14-15 ——— 7TH STREET SEWER
- 16-18 ——— 9TH STREET SEWER
- 19-26 ——— 12TH STREET SEWER
- 27 ——— 12TH STREET STORM DRAIN
- 28 ——— 12TH STREET WATER
- 29-33 ——— GUNNISON AVE SEWER
- 34-36 ——— GUNNISON AVE DRIVEWAY REPLACEMENTS

UTILITIES AND AGENCIES								
AGENCY	NAME	POSITION	ROLE	MAILING ADDRESS	STREET ADDRESS	CITY, STATE	VOICE-WK	FAX
GRAND JUNCTION, CITY OF	JUSTIN VENSEL	PROJECT ENGINEER	PROJECT ENGINEER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 256-4017	(970) 256-4022
GRAND JUNCTION, CITY OF	TRENT PRALL	ENGINEERING MANAGER	SANITARY SEWER	250 N. 5th STREET	250 N. 5th STREET	GRAND JCT., CO 81501	(970) 256-4047	(970) 256-4022
GRAND VALLEY IRRIGATION CO.	PHIL BERTRAND		IRRIGATION	688 26 ROAD	688 26 ROAD	GRAND JCT., CO 81506	(970) 242-2762	
CHARTER	JEFF VALDEZ	MANAGER	CABLE TV	2502 FORESIGHT CIRCLE	2502 FORESIGHT CIRCLE	GRAND JCT., CO 81504	(970) 245-8750	(970) 245-6803
U.S. WEST/WEST	CHRIS JOHNSON	ENGINEER	TELEPHONE	2524 BLUCHMANN AVE	2524 BLUCHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4349
UTE WATER	JUSTIN BATES	MAINTENANCE SUPERVISOR	WATER	PO BOX 460		GRAND JCT., CO 81502	(970) 256-2889	(970) 242-9189
XCEL	DAN STENKROHNER	UNIT MANAGER	GAS, ELECTRIC	2538 BLUCHMANN AVE	2538 BLUCHMANN AVE	GRAND JCT., CO 81506	(970) 244-2656	(970) 244-2661

DRAWING STATUS:

- PROGRESS
- FINAL CONSTRUCTION DRAWINGS
- ASBUILT

DESIGNED BY:

JUSTIN VENSEL, PROJECT ENGINEER 2017

REVIEWED BY:

TRENTON C. PRALL, CITY ENGINEER 2017

AUTHORIZED FOR CONSTRUCTION

TRENTON C. PRALL, CITY ENGINEER 2017

ACCEPTED AS CONSTRUCTED

JUSTIN VENSEL, PROJECT ENGINEER 2017

X:\Information\2017 SEWER LINE REPAIR\2017 SEWER LINE REPAIR\COVER.dwg, Model: 1/17/2017 7:32:13 AM

NOTE: NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

REVISION	DESCRIPTION	DATE
REVISION A	_____	_____
REVISION B	_____	_____
REVISION C	_____	_____
REVISION D	_____	_____




Public Works
Engineering Division

2017 SEWER LINE REPAIR 7 REPLACEMENTS, JANUARY, 2017, PLAN SET NO. --- 1

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BOX	BEGR. CURB RETURN
BTM	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CHORD	CORRUGATED ALUMINUM PIPE
CAP	COLORADO DEPARTMENT OF TRANSPORTATION
CDOT	CAST IRON
CI	CURB, GUTTER & SIDEWALK
C.G.& SW	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
F	FINISHED GRADE
FL	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOF	NO ONE PERSON
NRCP	NON-REINFORMATIONRCD CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORMATIONRCD CONCRETE PIPE
REQD	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VERTIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPPC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

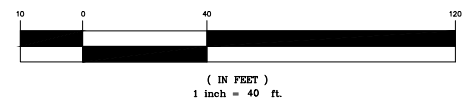
LEGEND

BSWMP	PROPOSED CONCRETE CURB AND GUTTER	
BSWMP DRAINAGE BASIN BOUNDARY	PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
BSWMP ANCHORED STRAW BALES	PROPOSED CONCRETE SIDEWALK	
BSWMP SILT FENCE	PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
BSWMP SF SF SF	8" PVC SANITARY SEWER	
BUILDING	ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
CONCRETE CURB AND GUTTER	RAIL ROAD	
CONCRETE CURB, GUTTER, & SIDEWALK	RETAINING WALL	
CONCRETE DITCH	STRIPING (CONTINUOUS WHITE)	
CONCRETE SIDEWALK	STRIPING (DASHED WHITE)	
CULVERT	STRIPING (CONTINUOUS YELLOW)	
EARTH DITCH	STRIPING (DASHED YELLOW)	
EDGE OF GRAVEL	TOP OF SLOPE	
EDGE OF PAVEMENT	CONTOUR LINES (SHOWN BETWEEN TOP & TOE)	
FENCE (BARBED WIRE)	TOE OF SLOPE	
FENCE (CHAIN LINK)	TRAFFIC DETECTOR LOOP	
FENCE (IRON)	UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)	
FENCE (PLASTIC)	UTILITY LINE (CABLE TV)	
FENCE (TEMPORARY CONSTRUCTION)	UTILITY LINE (ELECTRIC)	
FENCE (WOOD)	UTILITY LINE (FIBER OPTIC)	
FENCE (WOVEN WIRE)	UTILITY LINE (GAS)	
GUARD RAIL	UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)	
HATCHING: INDICATES ASPHALT REMOVAL	UTILITY LINE (OVERHEAD POWER)	
HATCHING: INDICATES CONCRETE REMOVAL	UTILITY LINE (OVERHEAD TELEPHONE)	
HATCHING: INDICATES STAGING AREA	UTILITY LINE (SANITARY SEWER)	
LINE (CENTER OF IMPROVEMENTS)	UTILITY LINE (SANITARY SEWER FORCE MAIN)	
LINE (CITY LIMITS)	UTILITY LINE (SANITARY SEWER SERVICE)	
LINE (CONTROL)	UTILITY LINE (STORM SEWER)	
LINE (EASEMENT)	UTILITY LINE (STORM SEWER, PERFORATED)	
LINE (MONUMENT/SECTION)	UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)	
LINE (PROPERTY)	UTILITY LINE (TELEPHONE)	
LINE (RIGHT OF WAY)	UTILITY LINE (WATER)	
MATCH LINE MATCH LINE SEE SHEET NO ?		
PIPE (IRRIGATION)		
PIPE (SIPHON)		

SYMBOLS

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (TV)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	

BAR SCALE:
GRAPHIC SCALE



NORTH ARROW



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REVISION	DESCRIPTION	DATE	DRAWN BY	HMC/JCS	DATE
REVISION Δ XXX		201X			2016
REVISION Δ XXX		201X	DESIGNED BY	HMC/JCS	DATE 2016
REVISION Δ XXX		201X	CHECKED BY	JJV	DATE 2016
REVISION Δ XXX		201X	APPROVED BY	TCP	DATE 2016

SCALES:	PLAN & PROFILE



**PUBLIC WORKS
ENGINEERING DIVISION**

**2017 SEWER LINE REPLACEMENTS
PHASE A**

Bid Schedule: 2017 Sewer Line Replacement Phase A

Company Name: _____

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	6" Gravity Sewer Pipe (SDR-35 PVC)	100.	LF	\$ _____	\$ _____
2	108.2	8" Gravity Sewer Pipe (SDR-35 PVC)	1,865.	LF	\$ _____	\$ _____
3	108.2	12" Gravity Sewer Pipe (SDR-35 PVC)	1,335.	LF	\$ _____	\$ _____
4	108.2	15" Gravity Sewer Pipe (SDR-35 PVC)	190.	LF	\$ _____	\$ _____
5	108.2	18" Gravity Sewer Pipe (SDR-35 PVC)	72.	LF	\$ _____	\$ _____
6	108.2	4" Sanitary Sewer Pipe (SDR-35 PVC) Price to include connections to the sewer main and existing sewer service line.	952.	LF	\$ _____	\$ _____
7	108.2	12" Storm Drain Pipe (RCP or HP Storm)	110.	LF	\$ _____	\$ _____
8	108.2	Import Trench Material	5,000.	Ton	\$ _____	\$ _____
9	108.2	Bypass Pumping		Lump sum	---	\$ _____
10	108.3	8" X 4" Sewer Service Tap (Full Body Wye w/ Street 45°)	35.	EA	\$ _____	\$ _____
11	108.3	12" X 4" Sewer Service Tap (Full Body Wye w/ Street 45°)	2.	EA	\$ _____	\$ _____
12	108.3	Inserta Tee(15"18" Pipe)	4.	EA	\$ _____	\$ _____
13	108.3	Sanitary Sewer Service Clean-out Ring and Cover (Castings Inc. CO8030-CI or equivalent)	40.	EA	\$ _____	\$ _____
14	108.2	6" Water Pipe (C-900 PVC)	130.	LF	\$ _____	\$ _____
15	108.2	12" Water Pipe (C-900 PVC)	20.	LF	\$ _____	\$ _____
16	108.3	6" Gate Valve	2.	EA	\$ _____	\$ _____
17	108.4	6" X 3/4" Tapping Saddle	1.	EA	\$ _____	\$ _____
18	108.3	6" X6" Tee	1.	EA	\$ _____	\$ _____
19	108.3	12" X 6" Cross	1.	EA	\$ _____	\$ _____
20	108.5	6" 45deg Elbow	4.	EA	\$ _____	\$ _____
21	108.4	3/4" Cooperation Stop	1.	EA	\$ _____	\$ _____
22	108.3	6" Fitting (Special) (Hi-Max or engineer approved equal)	2.	EA	\$ _____	\$ _____
23	108.3	12" Fitting (Special) (Hi-Max or engineer approved equal)	2.	EA	\$ _____	\$ _____
24	108.5	Storm sewer Basic Manhole (48" I.D.)	1.	EA	\$ _____	\$ _____
25	108.5	Sanitary Sewer Basic Manhole (48" I.D.)	20.	EA	\$ _____	\$ _____
26	108.5	Manhole Barrel Section (D>5")(48" I.D.)	56.	VF	\$ _____	\$ _____
27	108.5	Sanitary Sewer Basic Manhole (60" I.D.)	10.	EA	\$ _____	\$ _____
28	108.5	Manhole Barrel Section (D>5")(60" I.D.)	49.	VF	\$ _____	\$ _____
29	108.5	Sanitary Sewer Basic Drop Manhole (48" I.D.)	1.	EA	\$ _____	\$ _____

29	108.5	Sanitary Sewer Basic Drop Manhole (48" I.D.)	1.	EA	\$ _____	\$ _____
30	108.5	Drop Manhole Barrel Section (D>5")(48" I.D.)	5.6	VF	\$ _____	\$ _____
31	108.5	Sanitary Sewer Basic Drop Manhole (60" I.D.)	3.	EA	\$ _____	\$ _____
32	108.5	Drop Manhole Barrel Section (D>5")(60" I.D.)	21.	VF	\$ _____	\$ _____
33	108.5	Connect to Existing Pipe (6" VCP)	2.	EA	\$ _____	\$ _____
34	108.5	Connect to Existing Pipe (8" VCP)	5.	EA	\$ _____	\$ _____
35	108.7	Granular Stabilization Material	350.	CY	\$ _____	\$ _____
36	202	Removal of Asphalt (Cut and Remove as shown on Plans)	3,250.	SY	\$ _____	\$ _____
37	202	Removal of Concrete (Saw Cut as required and remove concrete as shown on plans)	1,081.	SY	\$ _____	\$ _____
38	202	Remove Sod	670.	SF	\$ _____	\$ _____
39	202	Removal of Manhole (No Re-Installation) (Price to inslucue plugging existing pipes, removal of conection and backfilling with a self consolidating Material)	14.	EA	\$ _____	\$ _____
40	203	Disposal of Radioactive Material	100.	CY	\$ _____	\$ _____
41	208	Erosion Control (Complete in Place)		Lump sum	---	\$ _____
42	208	Concrete Washout		Lump sum	---	\$ _____
43	209	Dust Abatement	100.	DAY	\$ _____	\$ _____
44	212	Re-Sod Areas as Shown	670.	SF	\$ _____	\$ _____
45	304	Aggregate Base Course (Class 6) (6" thick)(BOW locations)	110.	SY	\$ _____	\$ _____
46	304	Aggregate Base Course (Class 6) (12" thick)	1,530.	SY	\$ _____	\$ _____
47	304	Aggregate Base Course (Class 6) (16" thick)	1,610.	SY	\$ _____	\$ _____
48	401	Hot Mix Asphalt (Patching)(1" Thick) Grading SX Binder 64-22	3,140.	SY	\$ _____	\$ _____
49	401	Hot Mix Asphalt (Patching)(3" Thick) Grading SX Binder 64-22	110.	SY	\$ _____	\$ _____
50	608	Concrete Drive Over Curb and Gutter (2' Wide)	70.	LF	\$ _____	\$ _____
51	608	Monolithic Drive Over Curb Gutter and Sidewalk (Width Varies)	160.	SY	\$ _____	\$ _____
52	608	Concrete Sidewalk (4" thick)	35.	SY	\$ _____	\$ _____
53	608	Concrete Driveway Section (6" Thick)	1,040.	SY	\$ _____	\$ _____
54	620	Portable Sanitary Facility		Lump sum	---	\$ _____

55	625	Construction Surveying		Lump sum	---	\$ _____
56	626	Mobilization		Lump sum	---	\$ _____
57	629	Survey Monument (Reference and Reset)	5.	EA	\$ _____	\$ _____
58	630	Traffic Control (Complete in Place)		Lump sum	---	\$ _____
59	630	Traffic Control Plan		Lump sum	---	\$ _____
60	630	Flagging	750.	HR	\$ _____	\$ _____
61	GCC-56	Newsletters (20-80 per distribution)(weekly)		Lump sum	---	\$ _____
62	SP1	Quality Control Testing		Lump sum	---	\$ _____
63	SP2	Installation of Clean-out (Price to Include Two way sweep, vertical extension, coupling to existing PVC Pipe and cap)	4.	EA	\$ _____	\$ _____
64	SP3	Repair sag Line Per drawing SHT 6 of plan set		Lump Sum	---	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ 100,000.00

Bid Amount: \$ _____

Bid Amount: _____ dollars

(SEE PROJECT SPECIFICATIONS FOR SUMMARY OF APPROXIMATE QUANTITIES)

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REVISION	DESCRIPTION	DATE
REVISION A XXX		201X
REVISION B XXX		201X
REVISION C XXX		201X
REVISION D XXX		201X

DRAWN BY	HMC/JCS	DATE	2016
DESIGNED BY	HMC/JCS	DATE	2016
CHECKED BY	JJV	DATE	2016
APPROVED BY	JCP	DATE	2016

SCALES:

PLAN & PROFILE

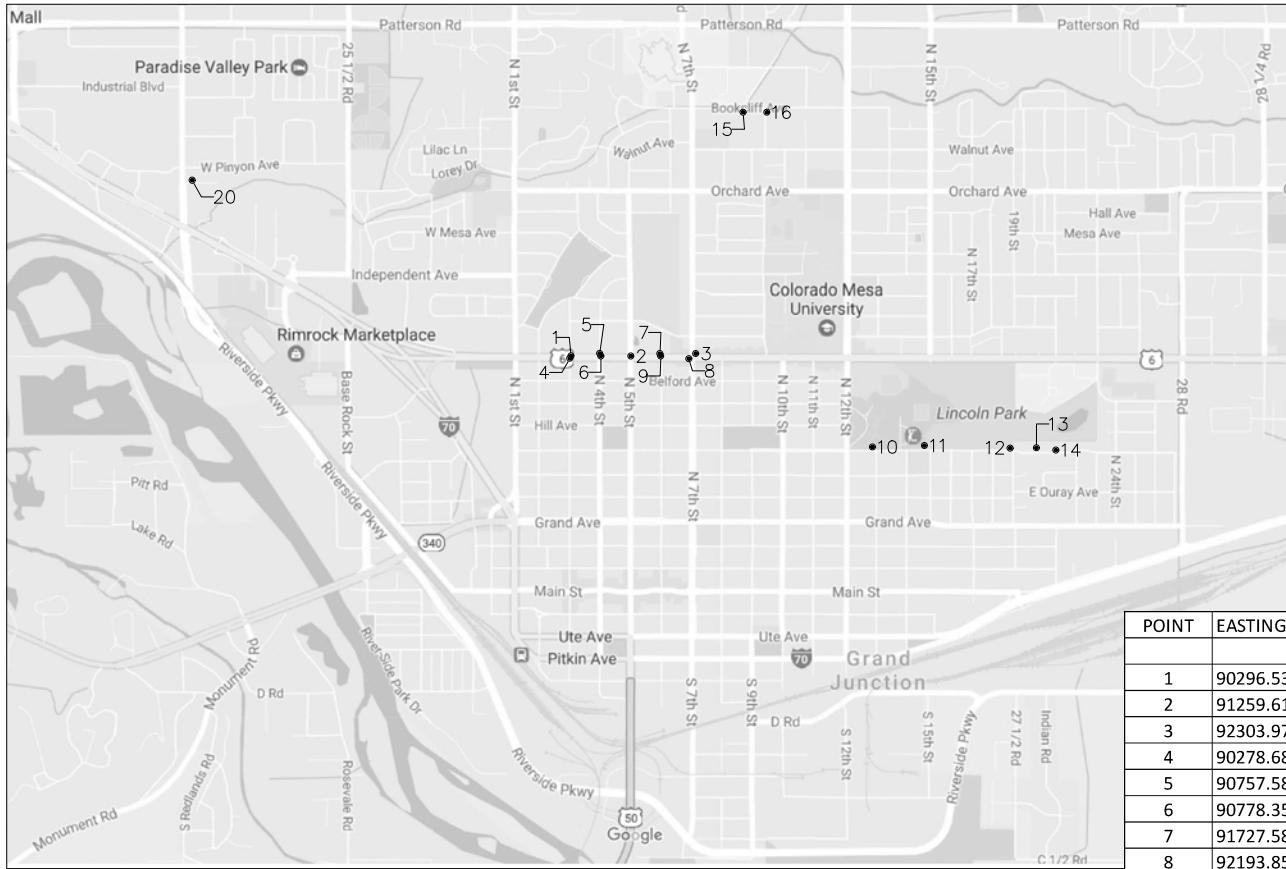
HORIZONTAL

VERTICAL



PUBLIC WORKS
ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
PHASE A



CONTROL MAP

POINT	EASTING	NORTHING	ELEVATION	DESCRIPTION
1	90296.531	39473.114	4598.323	CSM /NO5 RB 3RD-NORTH/
2	91259.613	39470.743	4603.937	CSM /NO5 RB 5TH-NORTH/
3	92303.973	39510.884	4609.939	BM /3"BC USGS STA GJ.3/
4	90278.686	39432.504	4598.453	CP /PK DANS/
5	90757.589	39512.579	4600.697	CP /PK TROPICAL/
6	90778.355	39471.998	4600.754	CSM /PIN-WASH 4TH-NORTH/
7	91727.583	39509.623	4606.153	CP /PK MARTIN/
8	92193.853	39428.204	4609.323	CP /PK VERIZON/
9	91741.097	39469.597	4606.255	CSM /6TH&NO/
10	95146.046	38007.246	4608.503	CP /PK 13TH/
11	95982.386	38028.951	4609.963	CP /PK 15TH/
12	97361.486	37988.755	4611.205	CP /PK 19/
13	97782.103	37994.255	4609.817	CP /PK 2012/
14	98095.855	37955.754	4607.927	CP /PK 2113/
15	93068.191	43391.33	4642.932	CP /PK L BOOK/
16	98572.398	38010.652	4605.551	CP /PK/
16	93447.121	43390.111	4645.245	CP /PK 9TH/
20	84204.27	42298.761	4563.771	CP /PK EATON/

REVISION	DESCRIPTION	DATE	DRAWN BY	HMC/JCS	DATE	2016
REVISION Δ XXX		-	201X	DESIGNED BY	HMC/JCS	DATE 2016
REVISION Δ XXX		-	201X	CHECKED BY	JJV	DATE 2016
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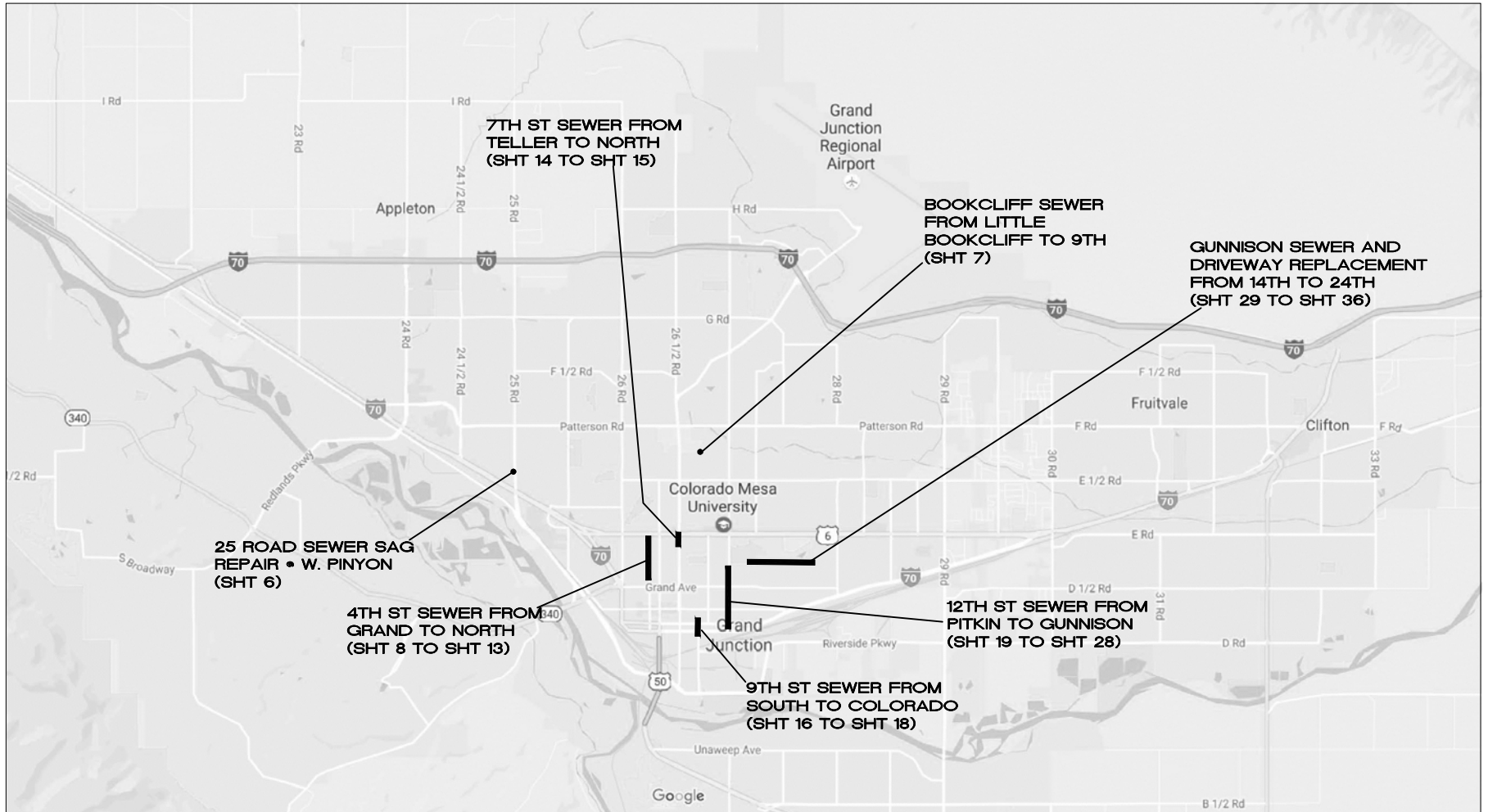
SCALES:
 PLAN & PROFILE
 HORIZONTAL 1"=100'
 VERTICAL 1"=20'



PUBLIC WORKS
ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
PHASE A

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LOCATION MAP

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REVISION Δ XXX		-	201X	DESIGNED BY	HMC/JCS	DATE 2016
REVISION Δ XXX		-	201X	CHECKED BY	JJV	DATE 2016
REVISION Δ XXX		-	201X	APPROVED BY	ICP	DATE 2016

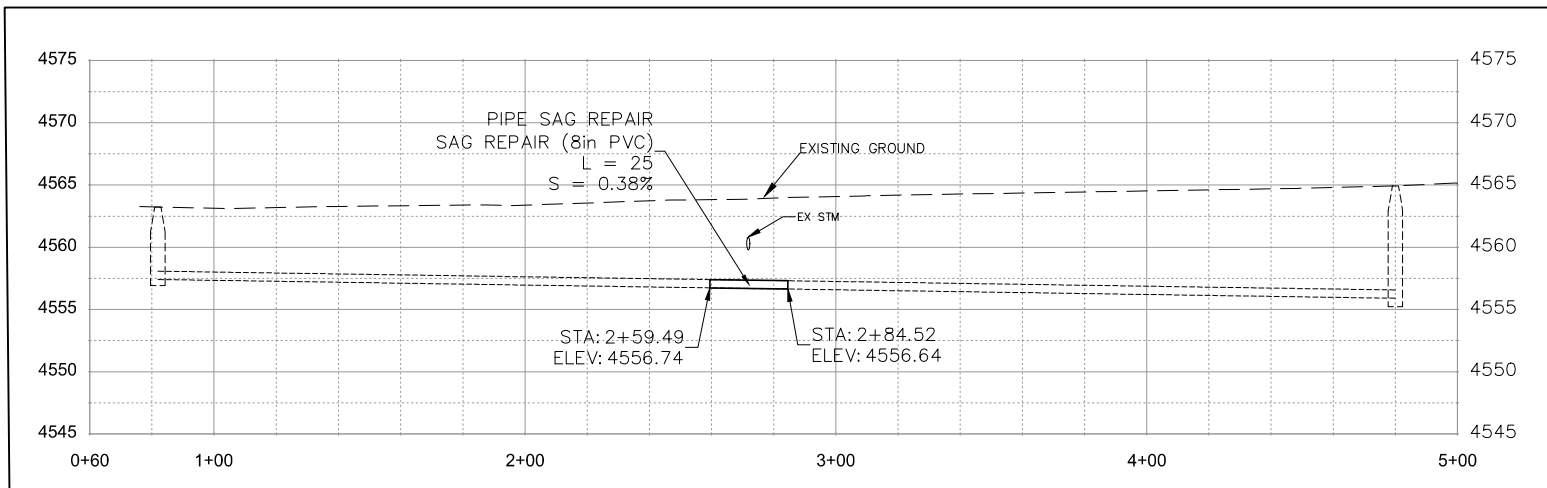
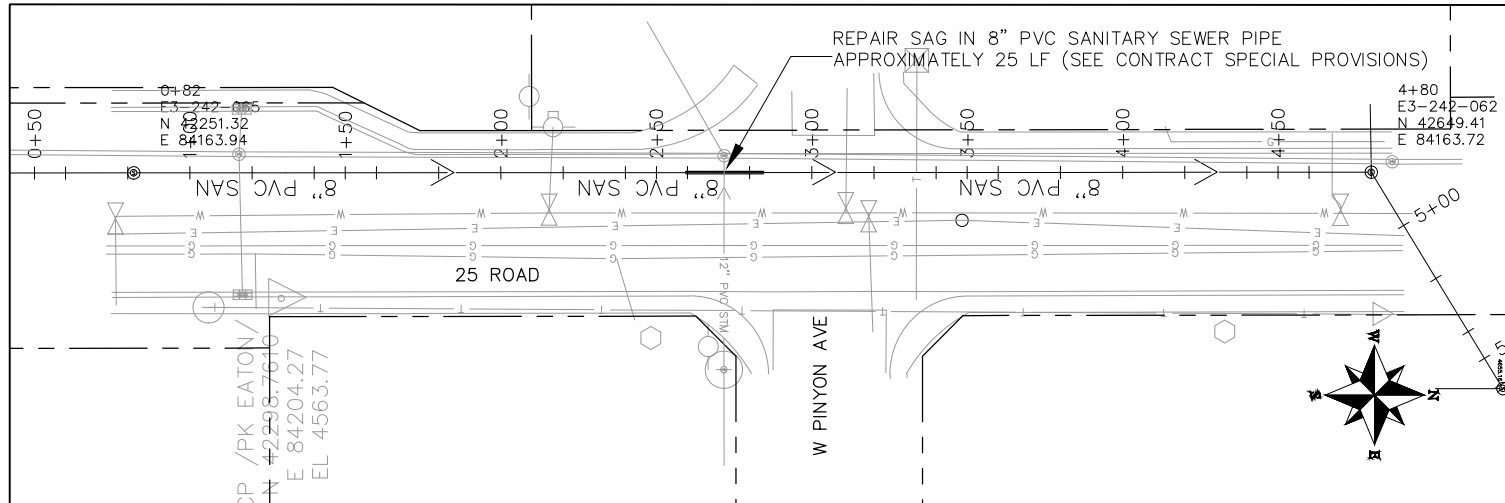
SCALES:
PLAN & PROFILE
HORIZONTAL
1" = 400'
VERTICAL
1" = 10'



PUBLIC WORKS
ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
PHASE A

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REVISION Δ XXX		-	HMC/JCS	2016
REVISION Δ XXX		-	JJV	2016
REVISION Δ XXX		-	ICP	2016

SCALES:

PLAN & PROFILE

HORIZONTAL

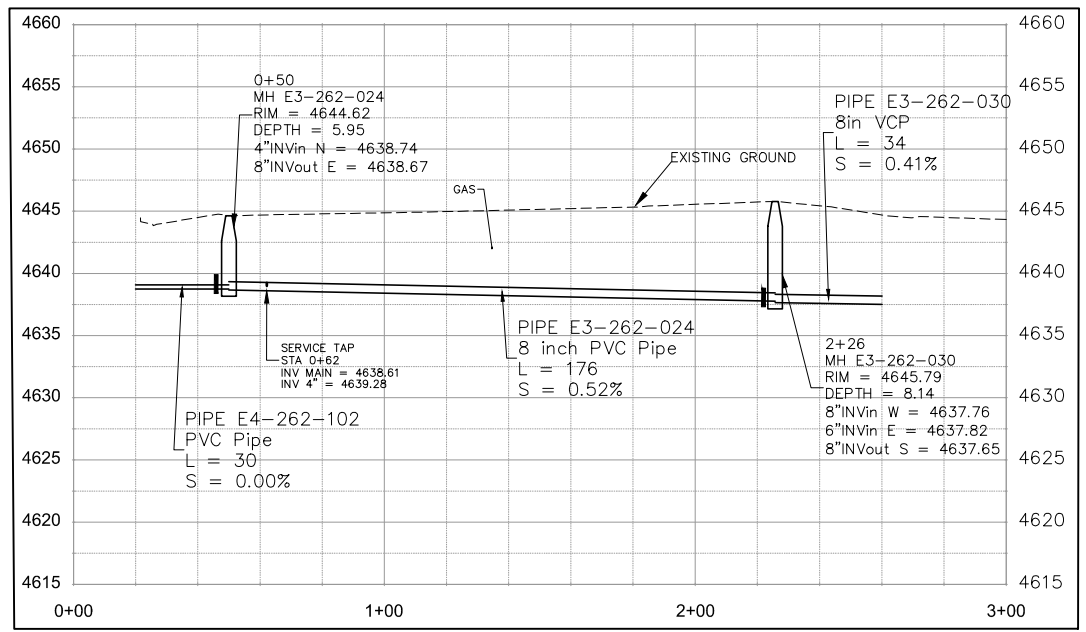
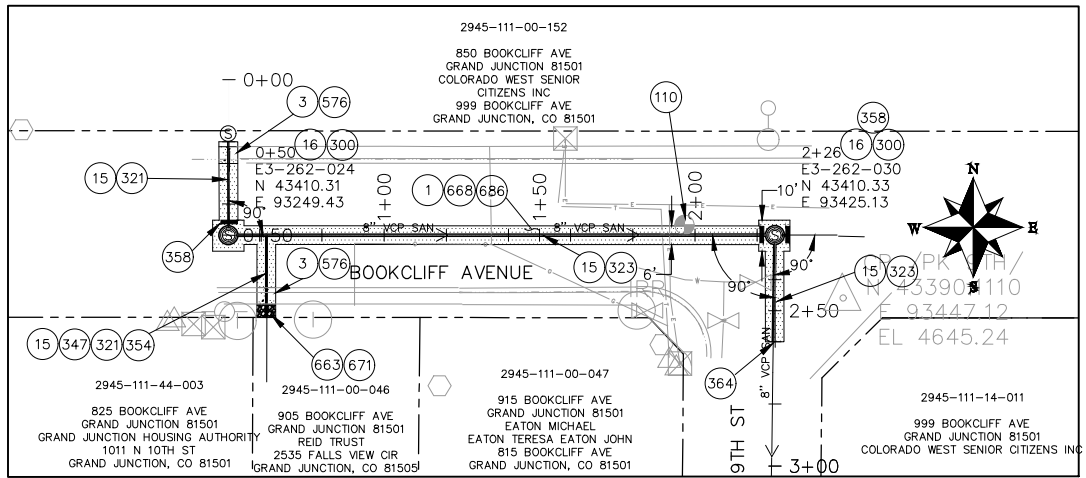
VERTICAL



PUBLIC WORKS
ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
PHASE A

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CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 110 629 - REFERENCE AND RESET SURVEY MONUMENT. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR'S SURVEYOR MUST SUBMIT FIELD NOTES DETAILING THE PERMANENT REFERENCES PLACED FOR EACH MONUMENT IN DANGER OF LOSS DUE TO CONSTRUCTION.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PRICE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE.
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 668 304 - AGGREGATE BASE COURSE (CLASS 6) (12" THICK)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)

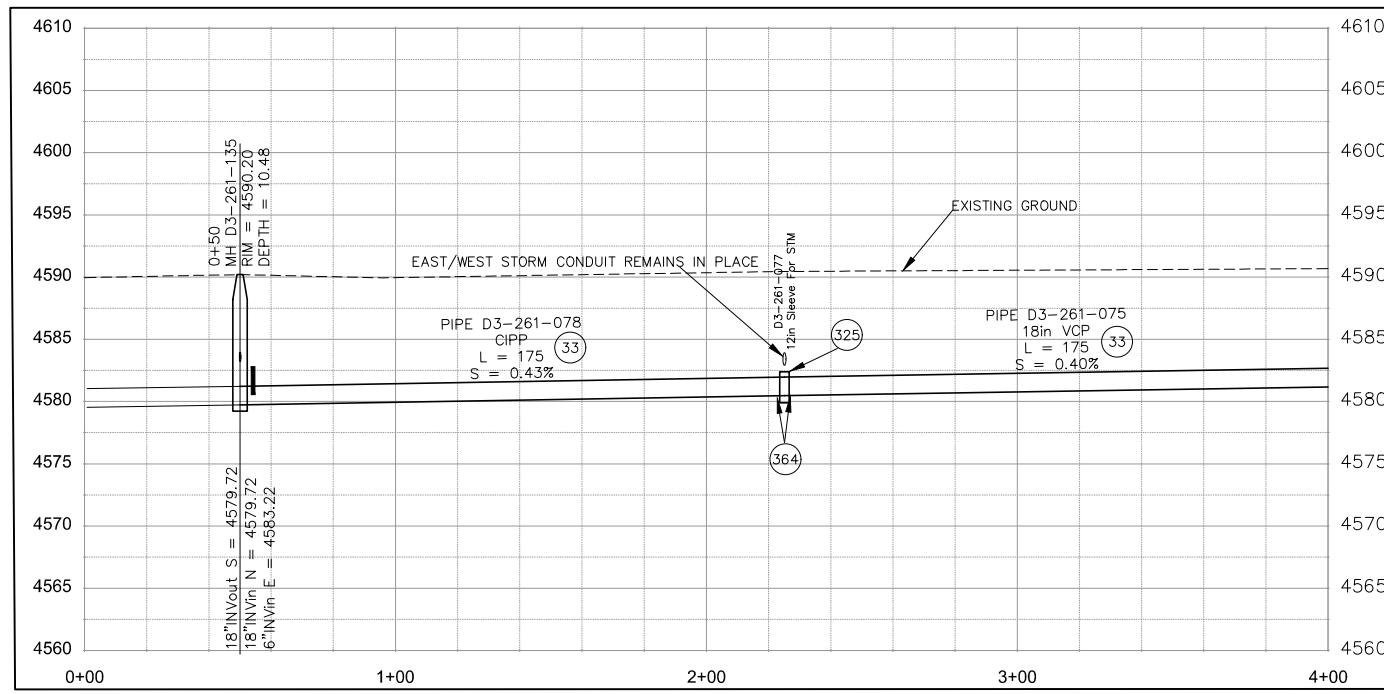
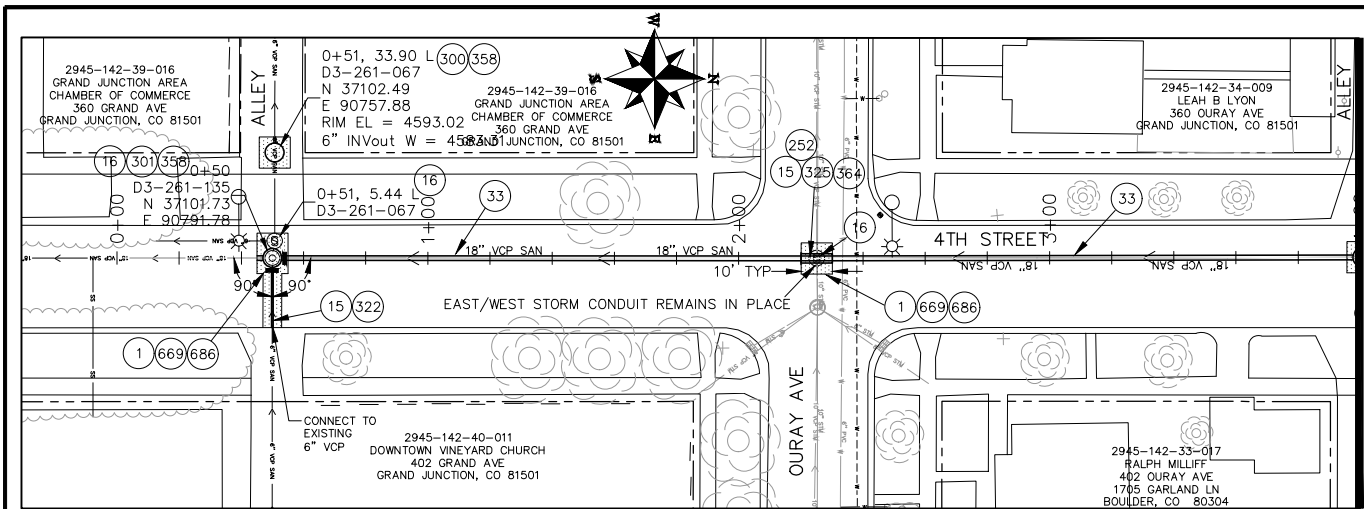
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REVISION Δ XXX		201X	HMC/JCS	2016	HMC/JCS	2016	HORIZONTAL
REVISION Δ XXX		201X	JJV	2016	JJV	2016	VERTICAL
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**PUBLIC WORKS
ENGINEERING DIVISION**

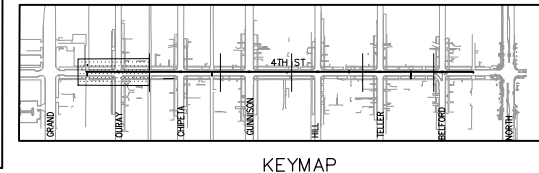
**2017 SEWER LINE REPLACEMENTS
PHASE A**

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CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. (SEPARATE CONTRACT.)
- 252 MANHOLE SHALL BE REMOVED, NEW PIPE INSTALLED, AND CONNECTIONS BACK TO EXISTING PIPE COMPLETED PRIOR TO CIPP OPERATIONS FOR THIS RUN. CIPP "THROUGH" OLD MANHOLE LOCATION.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 322 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 325 102.9/108.2 - 18" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC/JCS	DATE	2016
REVISION Δ XXX		201X	DESIGNED BY	HMC/JCS	DATE	2016
REVISION Δ XXX		201X	CHECKED BY	JJV	DATE	2016
REVISION Δ XXX		201X	APPROVED BY	ICP	DATE	2016

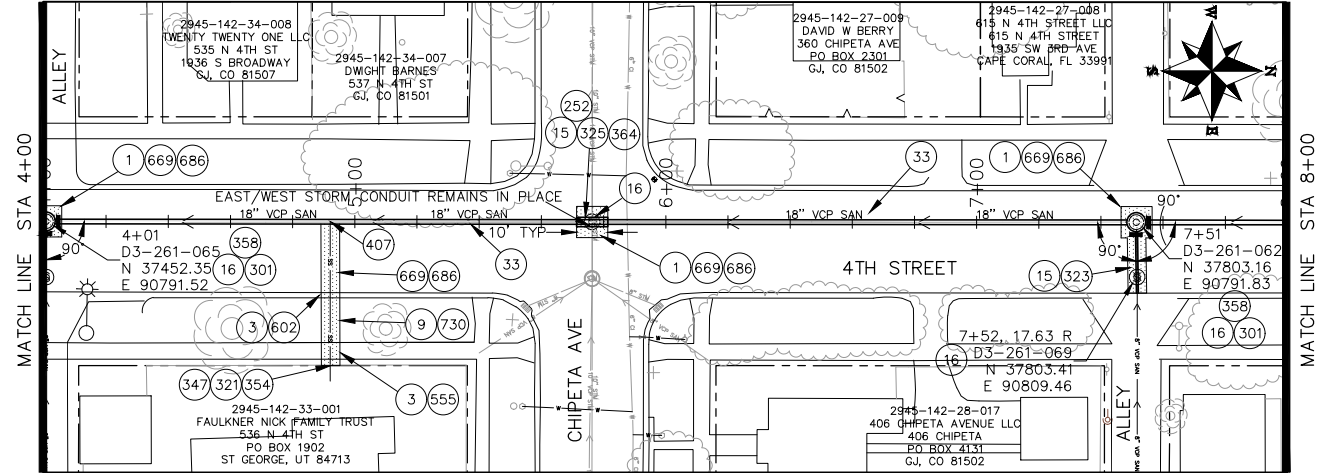
SCALES:	
PLAN & PROFILE	1" = 40'
HORIZONTAL	1" = 40'
VERTICAL	1" = 4'



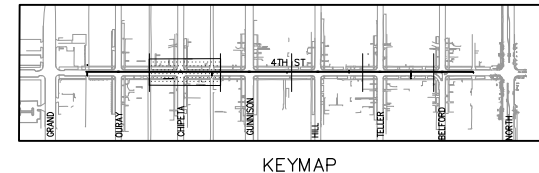
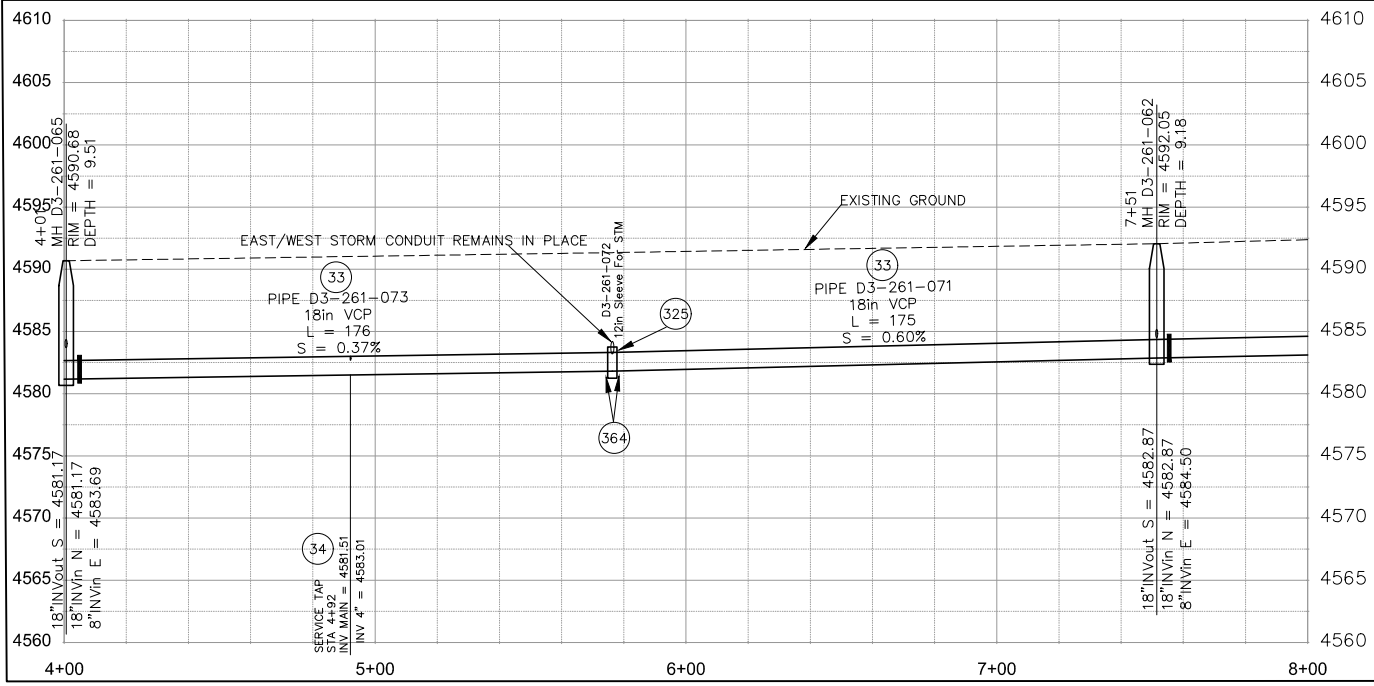
PUBLIC WORKS ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS PHASE A

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- CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMP, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
 - 9 202 - REMOVAL OF SOD.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. (SEPARATE CONTRACT.)
 - 34 REMOVE CIPP COUPON AT SERVICE LOCATION (INCIDENTAL TO CIPP) (SEPARATE CONTRACT.)
 - 252 MANHOLE SHALL BE REMOVED, NEW PIPE INSTALLED, AND CONNECTIONS BACK TO EXISTING PIPE COMPLETED PRIOR TO CIPP OPERATIONS FOR THIS RUN. CIPP "THROUGH" OLD MANHOLE LOCATION.
 - 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 325 102.9/108.2 - 18" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
 - 407 102.8/108.3 - TEE (SIZE AS SHOWN).
 - 555 608.06 - CONCRETE SIDEWALK (4" THICK)
 - 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE)
 - 669 304 - AGGREGATE BASECOURSE (CLASS 6) (16" THICK)
 - 686 401.08 - HOTBITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)
 - 730 212 - RESOD AREA AS SHOWN



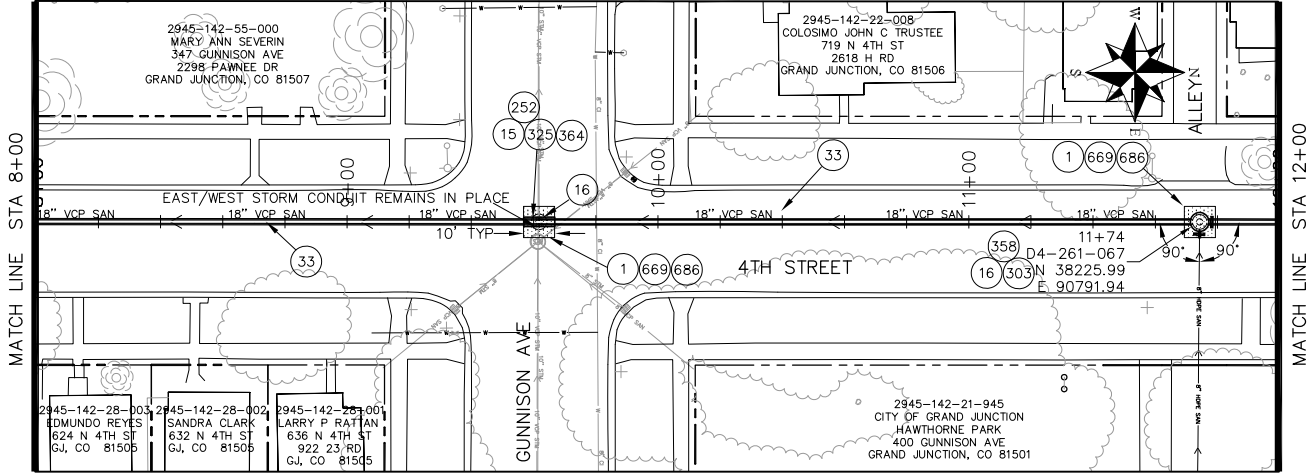
REVISION	DESCRIPTION	DATE	DRAWN BY	HMC/JCS	DATE	2016
REVISION A XXX						
REVISION B XXX						
REVISION C XXX						
REVISION D XXX						
REVISION E XXX						

SCALE:	PLAN & PROFILE
1" = 40'	1" = 20'
1" = 80'	1" = 40'



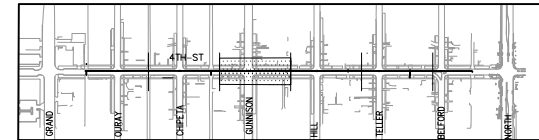
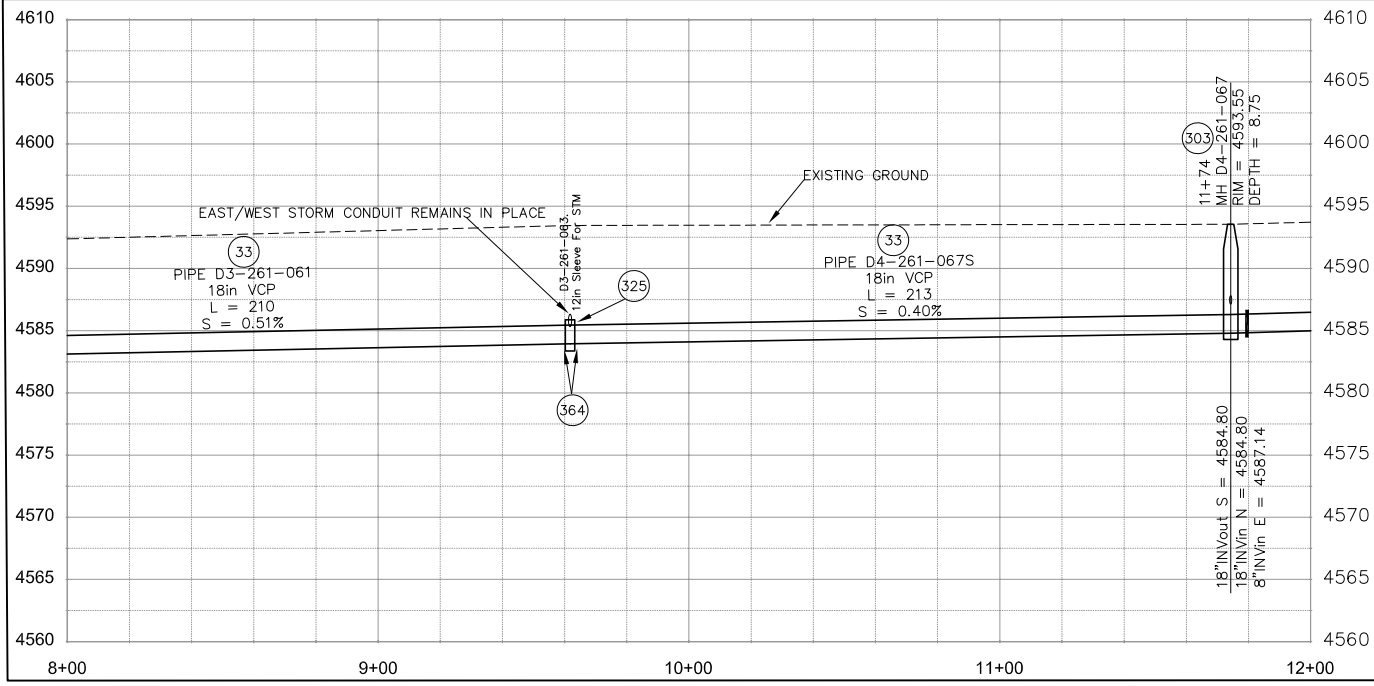
PUBLIC WORKS
ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
PHASE A



CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. (SEPARATE CONTRACT.)
- 252 MANHOLE SHALL BE REMOVED, NEW PIPE INSTALLED, AND CONNECTIONS BACK TO EXISTING PIPE COMPLETED PRIOR TO CIPP OPERATIONS FOR THIS RUN. CIPP "THROUGH" OLD MANHOLE LOCATION.
- 303 102.11/108.5 - SANITARY SEWER BASIC DROP MANHOLE (60" I.D.). INCLUDES MANHOLE COATING AS PER 102.11. (SEE STD. DETAIL SS-04).
- 325 102.9/108.2 - 18" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	HMC/JCS	DATE	2016
REVISION A XXX		201X	DESIGNED BY	HMC/JCS	DATE	2016
REVISION B XXX		201X	CHECKED BY	JJV	DATE	2016
REVISION C XXX		201X	APPROVED BY	ICP	DATE	2016

SCALES:

PLAN & PROFILE

HORIZONTAL 1" = 40'

VERTICAL 1" = 10'



PUBLIC WORKS ENGINEERING DIVISION

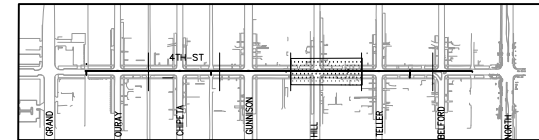
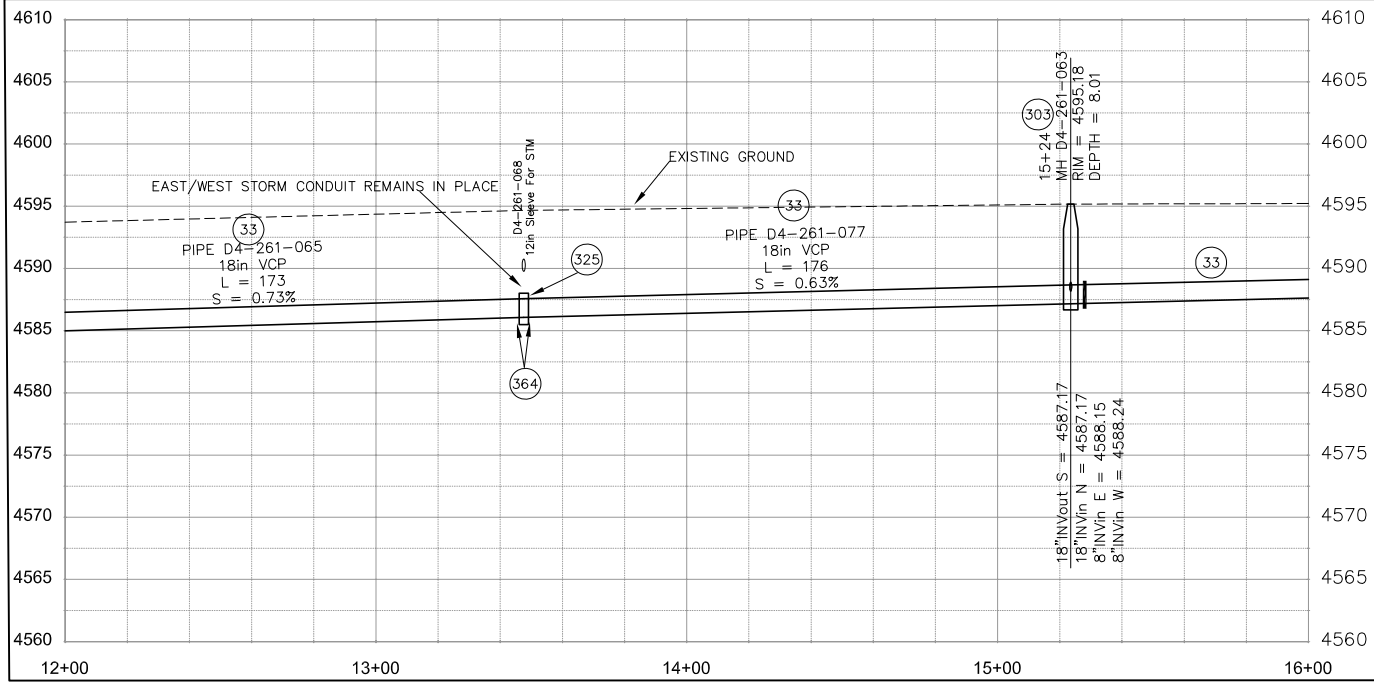
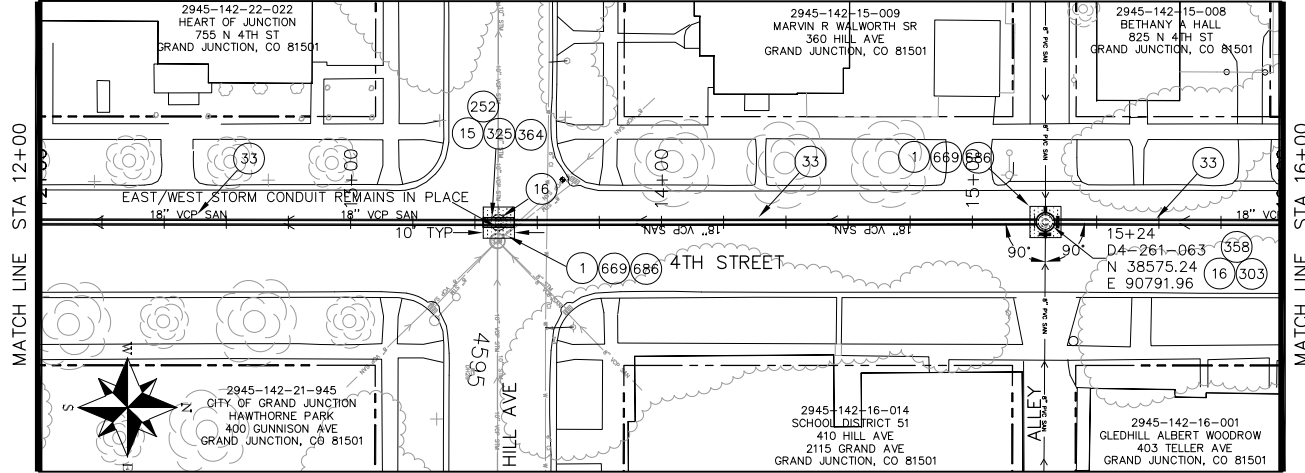
2017 SEWER LINE REPLACEMENTS PHASE A

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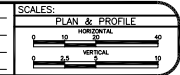
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. (SEPARATE CONTRACT.)
- 252 MANHOLE SHALL BE REMOVED, NEW PIPE INSTALLED, AND CONNECTIONS BACK TO EXISTING PIPE COMPLETED PRIOR TO CIPP OPERATIONS FOR THIS RUN. CIPP "THROUGH" OLD MANHOLE LOCATION.
- 303 102.11/108.5 - SANITARY SEWER BASIC DROP MANHOLE (60" I.D.). INCLUDES MANHOLE COATING AS PER 102.11. (SEE STD. DETAIL SS-04).
- 325 102.9/108.2 - 18" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 669 304 - AGGREGATE BASECOURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOTBITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



REVISION	DESCRIPTION	DATE
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REVISION B XXX		201X
REVISION C XXX		201X
REVISION D XXX		201X

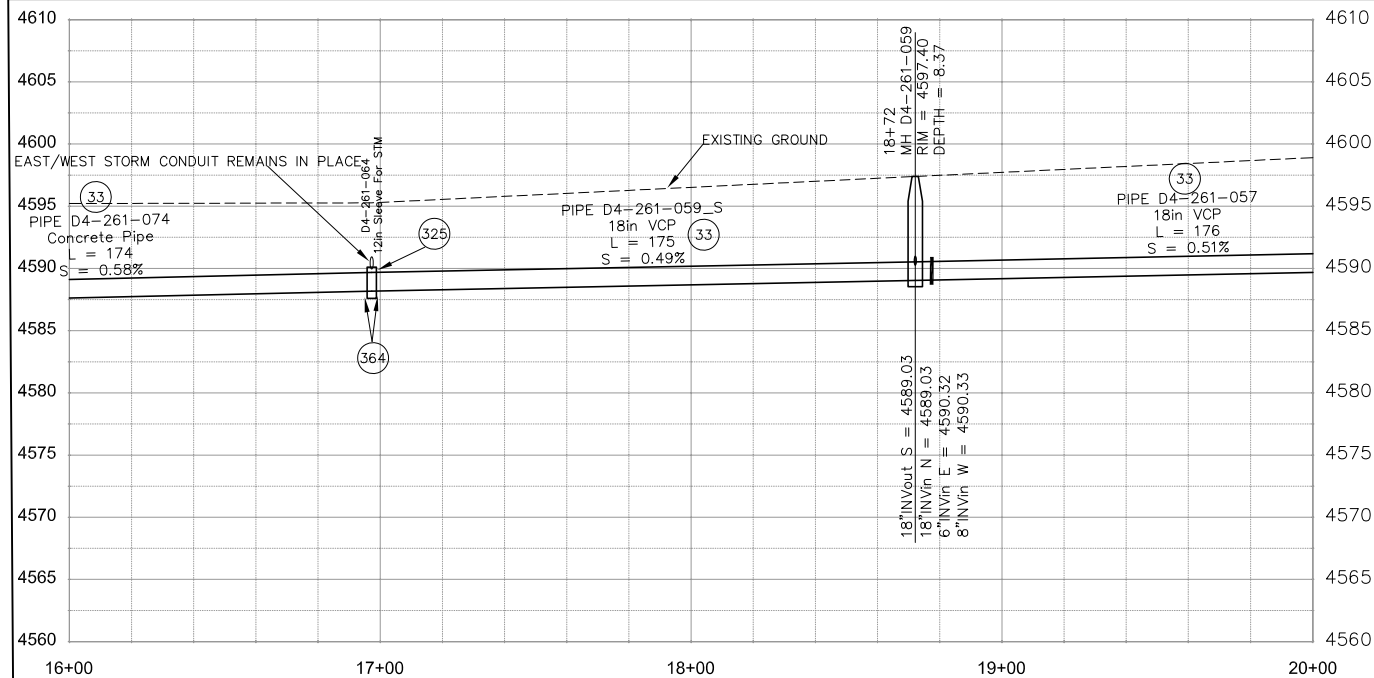
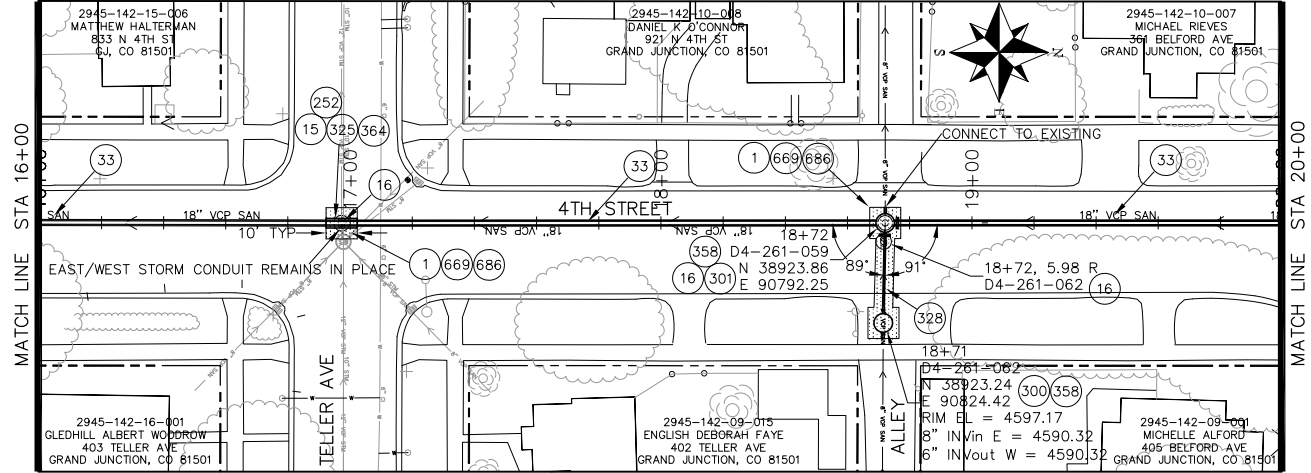
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APPROVED BY	ICP	DATE	2016



PUBLIC WORKS
ENGINEERING DIVISION

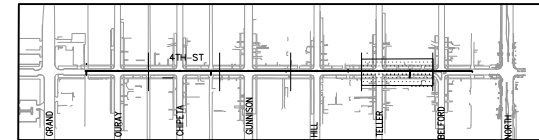
2017 SEWER LINE REPLACEMENTS
PHASE A

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CONSTRUCTION NOTES

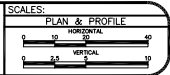
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. (SEPARATE CONTRACT.)
- 252 MANHOLE SHALL BE REMOVED, NEW PIPE INSTALLED, AND CONNECTIONS BACK TO EXISTING PIPE COMPLETED PRIOR TO CIPP OPERATIONS FOR THIS RUN. CIPP "THROUGH" OLD MANHOLE LOCATION.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 325 102.9/108.2 - 18" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 328 102.9/108.2 - 6" GRAVITY SEWER PIPE (OTHER THAN SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 669 304 - AGGREGATE BASECOURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOTBITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A XXX		201X	HMC/JCS	2016
REVISION B XXX		201X	HMC/JCS	2016
REVISION C XXX		201X	JJV	2016
REVISION D XXX		201X	ICP	2016

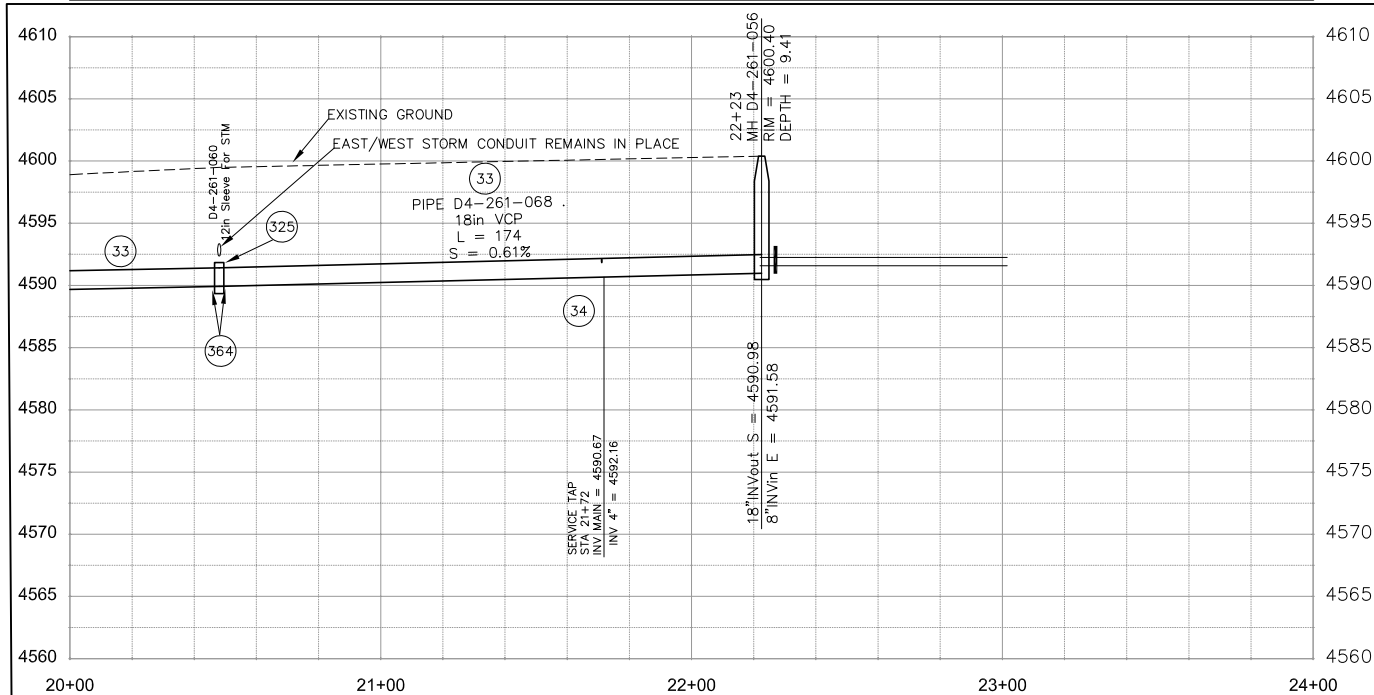
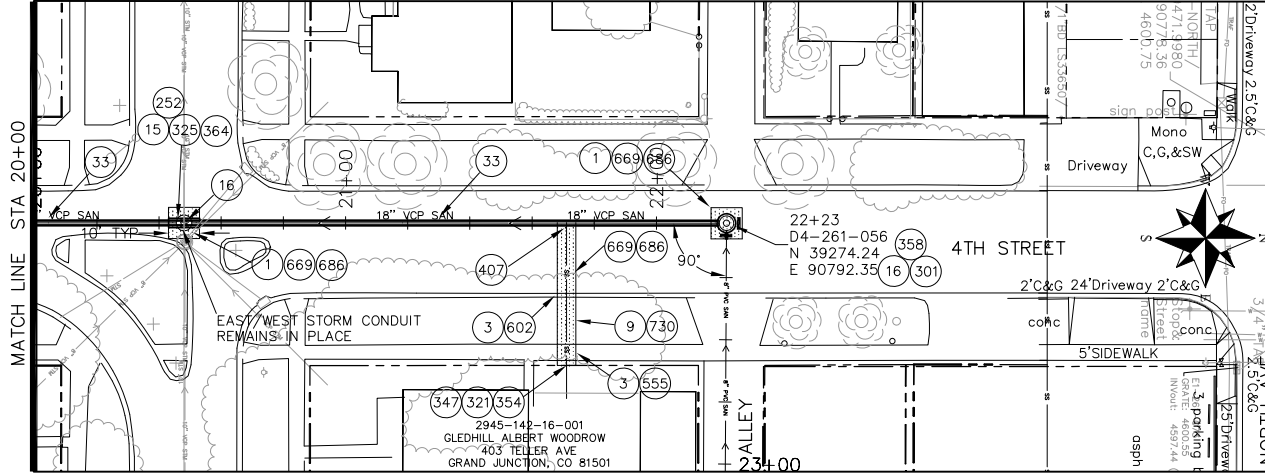
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HMC/JCS	2016	ICP	2016



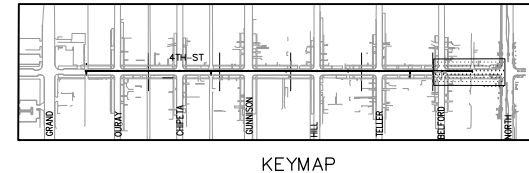
PUBLIC WORKS ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS PHASE A

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- CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
 - 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
 - 9 202 - REMOVAL OF SOD.
 - 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
 - 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
 - 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. (SEPARATE CONTRACT.)
 - 34 REMOVE CIPP COUPON AT SERVICE LOCATION (INCIDENTAL TO CIPP) (SEPARATE CONTRACT.)
 - 252 MANHOLE SHALL BE REMOVED, NEW PIPE INSTALLED, AND CONNECTIONS BACK TO EXISTING PIPE COMPLETED PRIOR TO CIPP OPERATIONS FOR THIS RUN. CIPP "THROUGH" OLD MANHOLE LOCATION.
 - 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
 - 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 325 102.9/108.2 - 18" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
 - 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
 - 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
 - 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
 - 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
 - 407 102.8/108.3 - TEE (SIZE AS SHOWN).
 - 555 608.06 - CONCRETE SIDEWALK (4" THICK)
 - 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE)
 - 669 304 - AGGREGATE BASECOURSE (CLASS 6) (16" THICK)
 - 686 401.08 - HOTBITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)
 - 730 212 - RESOD AREA AS SHOWN



REVISION	DESCRIPTION	DATE	DRAWN BY	HMC/JCS	DATE	2016
REVISION A XXX		201X	DESIGNED BY	HMC/JCS	DATE	2016
REVISION B XXX		201X	CHECKED BY	JJV	DATE	2016
REVISION C XXX		201X	APPROVED BY	ICP	DATE	2016

SCALES:

PLAN & PROFILE

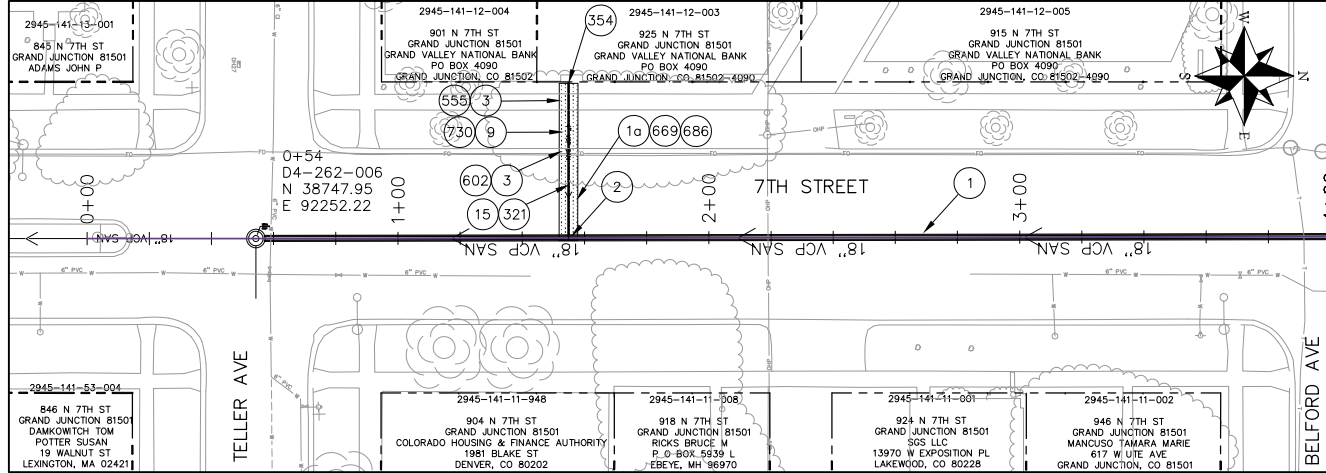
HORIZONTAL 1" = 40'

VERTICAL 1" = 4'

PUBLIC WORKS
ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
PHASE A

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MATCH LINE STA 4+00

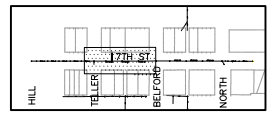
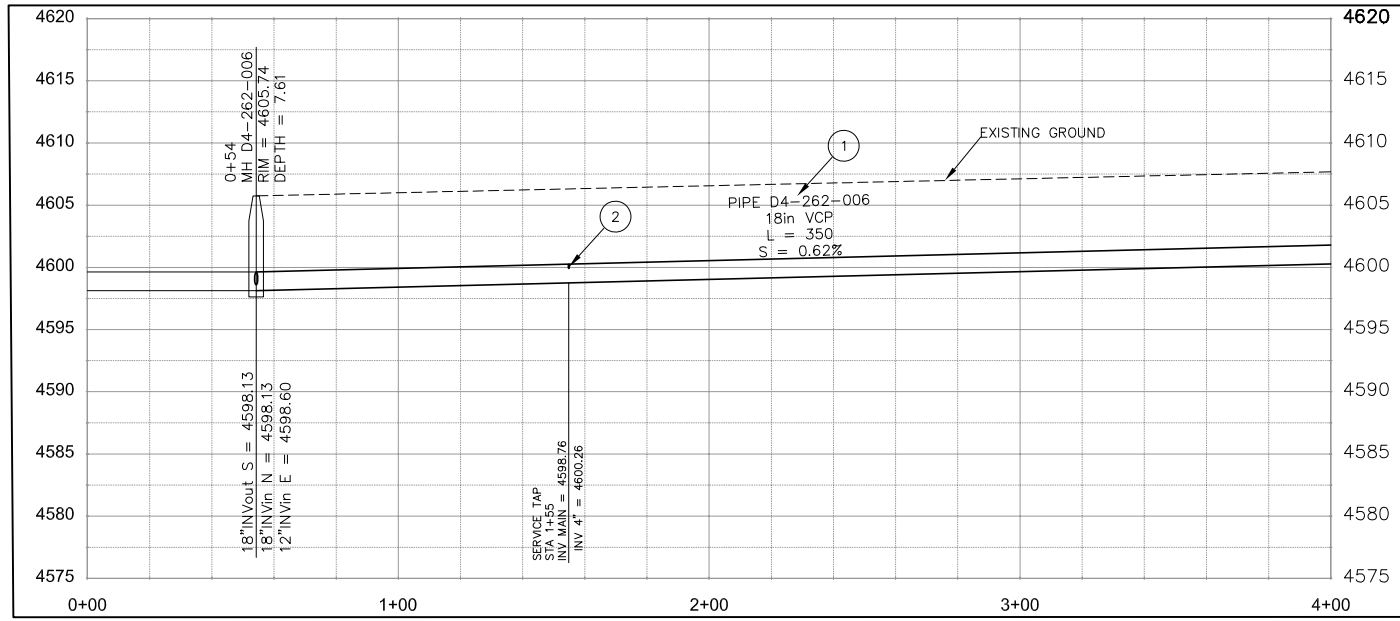
CONSTRUCTION NOTES

SEPARATE CONTRACT

- 1 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 2 REMOVE CIPP COUPON AT SERVICE LOCATION (INCIDENTAL TO CIPP)

THIS CONTRACT

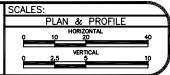
- 1A 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 9 202 - REMOVAL OF SOD.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 555 608.06 CONCRETE SIDEWALK SECTION (4" THICK)
- 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)
- 730 212 - RESOD AREA AS SHOWN



KEYMAP

REVISION	DESCRIPTION	DATE
REVISION A XXX		201X
REVISION B XXX		201X
REVISION C XXX		201X
REVISION D XXX		201X

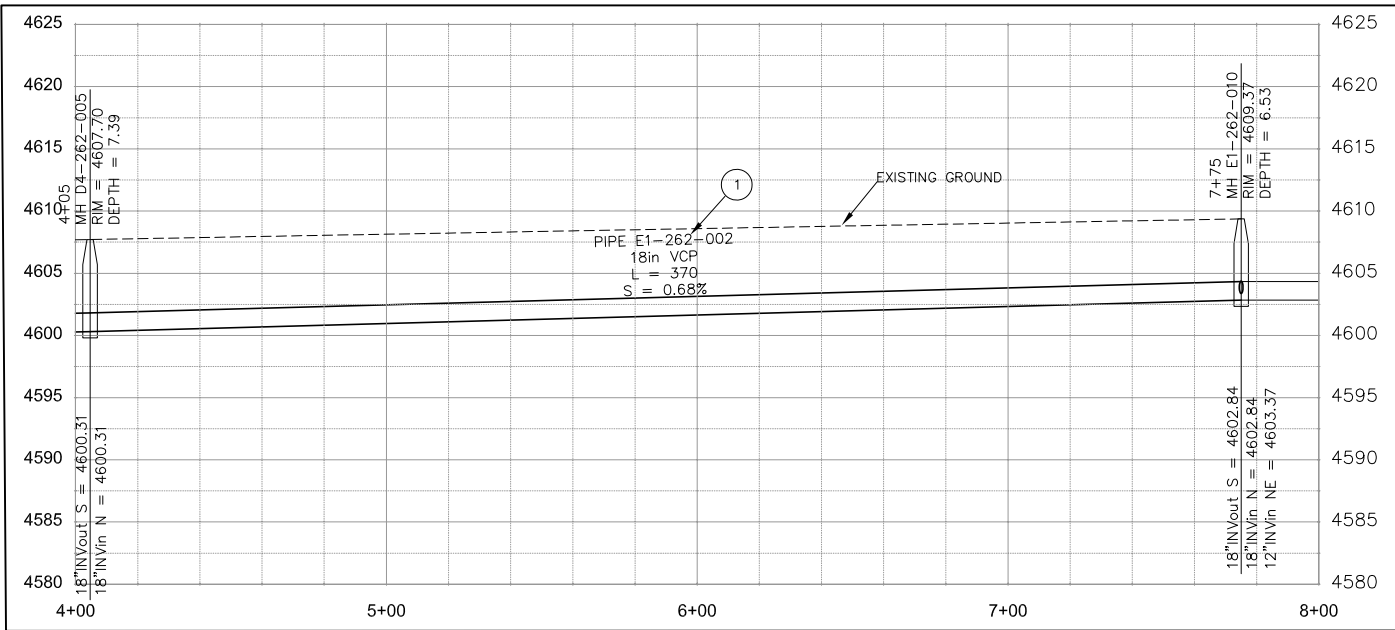
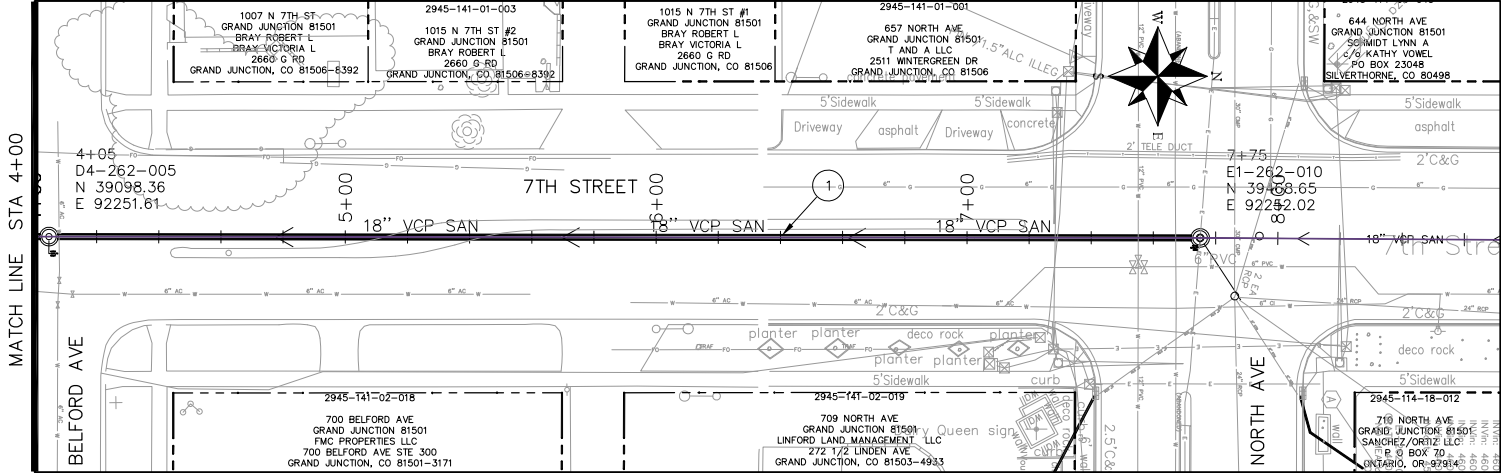
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**PUBLIC WORKS
 ENGINEERING DIVISION**

**2017 SEWER LINE REPLACEMENTS
 PHASE A**

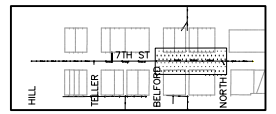
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CONSTRUCTION NOTES

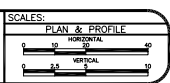
SEPARATE CONTRACT

- 1 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.



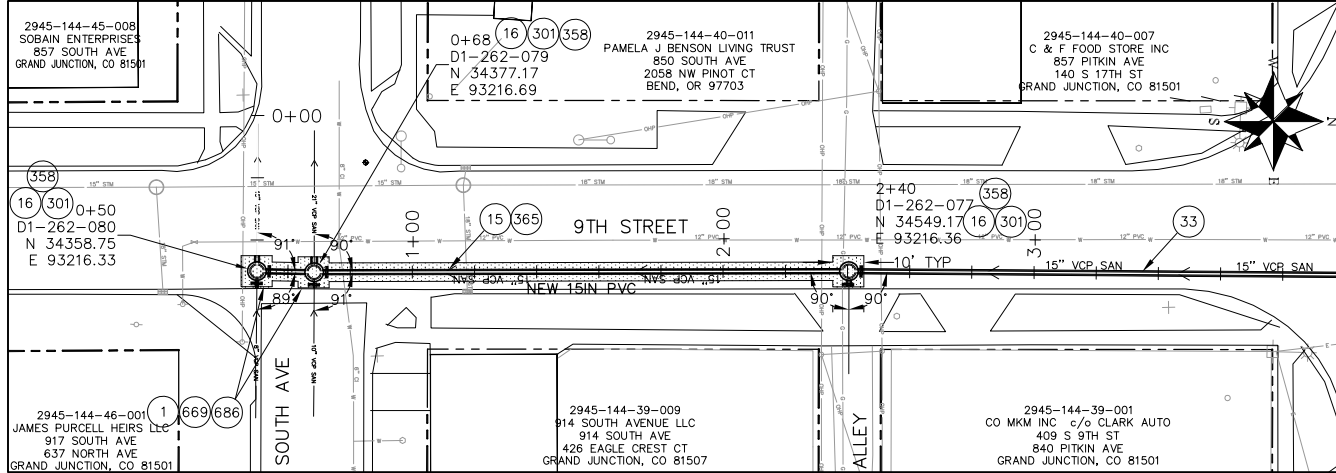
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REVISION C XXX		201X
REVISION D XXX		201X

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**PUBLIC WORKS
ENGINEERING DIVISION**

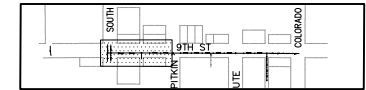
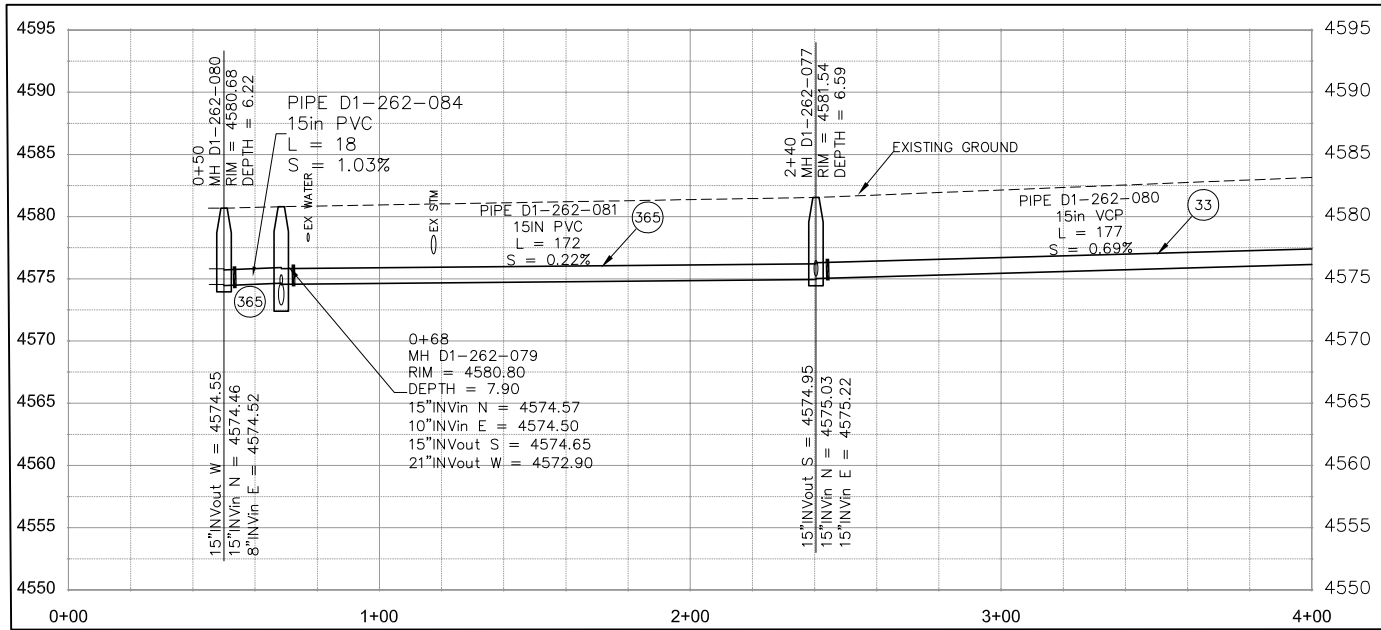
**2017 SEWER LINE REPLACEMENTS
PHASE A**



MATCH LINE STA 4+00

CONSTRUCTION NOTES

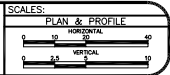
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 365 102.9/108.2 - 15" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



KEYMAP

REVISION	DESCRIPTION	DATE
REVISION Δ XXX		201X
REVISION Δ XXX		201X
REVISION Δ XXX		201X
REVISION Δ XXX		201X

DRAWN BY	HMC/JCS	DATE	2016
DESIGNED BY	HMC/JCS	DATE	2016
CHECKED BY	JJV	DATE	2016
APPROVED BY	ICP	DATE	2016

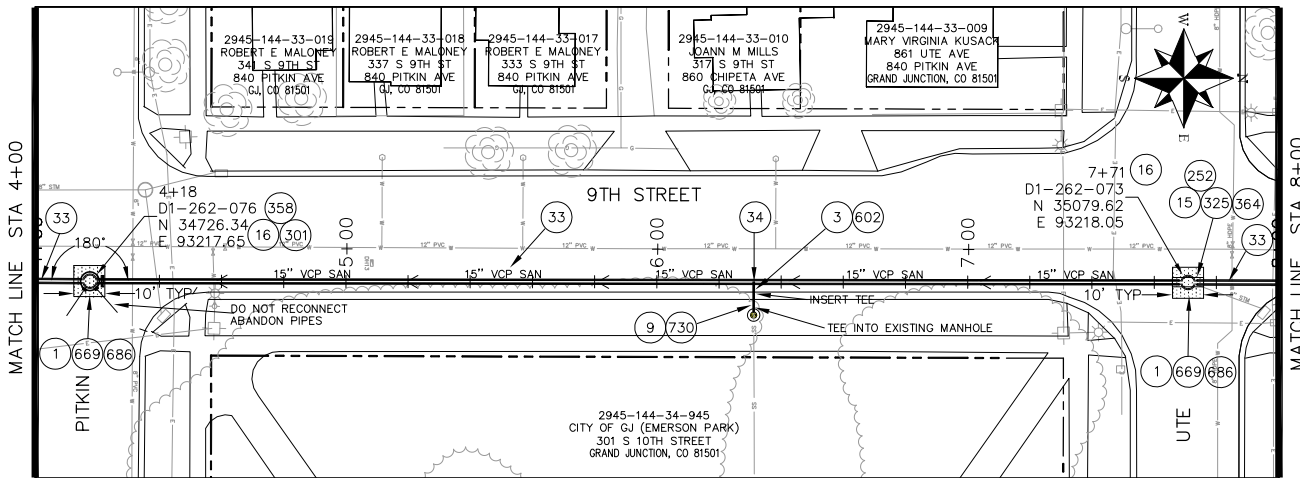


**PUBLIC WORKS
ENGINEERING DIVISION**

**2017 SEWER LINE REPLACEMENTS
PHASE A**

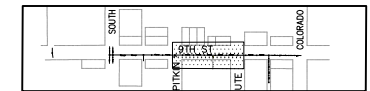
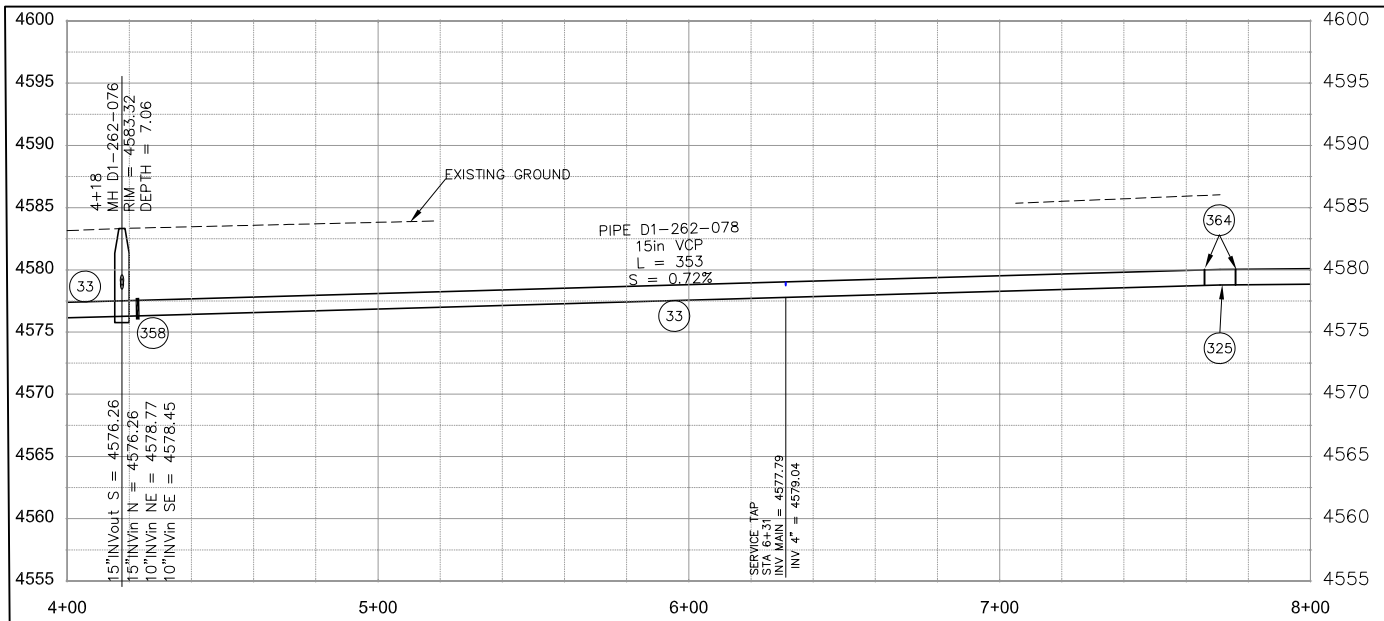
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CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 9 202 - REMOVAL OF SOD
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 34 REMOVE CIPP COUPON AT SERVICE LOCATION (INCIDENTAL TO CIPP)
- 252 MANHOLE SHALL BE REMOVED, NEW PIPE INSTALLED, AND CONNECTIONS BACK TO EXISTING PIPE COMPLETED PRIOR TO CIPP OPERATIONS FOR THIS RUN. CIPP "THROUGH" OLD MANHOLE LOCATION.
- 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 325 102.9/108.2 - 18" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)
- 730 212 - RESOD AREA AS SHOWN



KEYMAP

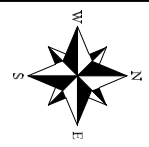
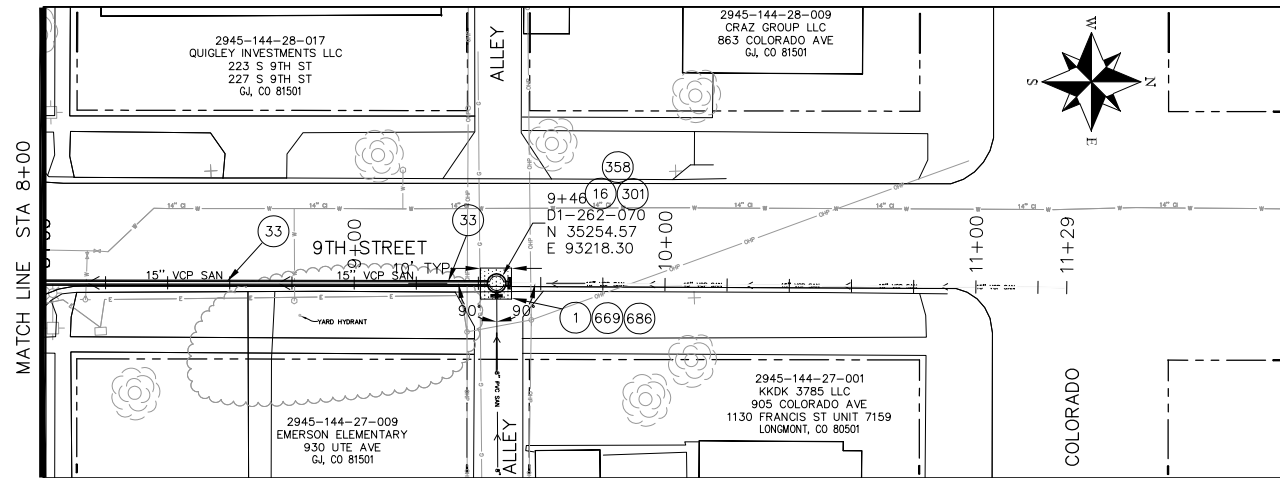
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REVISION B	XXX	-								
REVISION C	XXX	-								
REVISION D	XXX	-								

SCALES:
 PLAN & PROFILE
 HORIZONTAL
 1" = 40'
 VERTICAL
 1" = 4'

PUBLIC WORKS
 ENGINEERING DIVISION

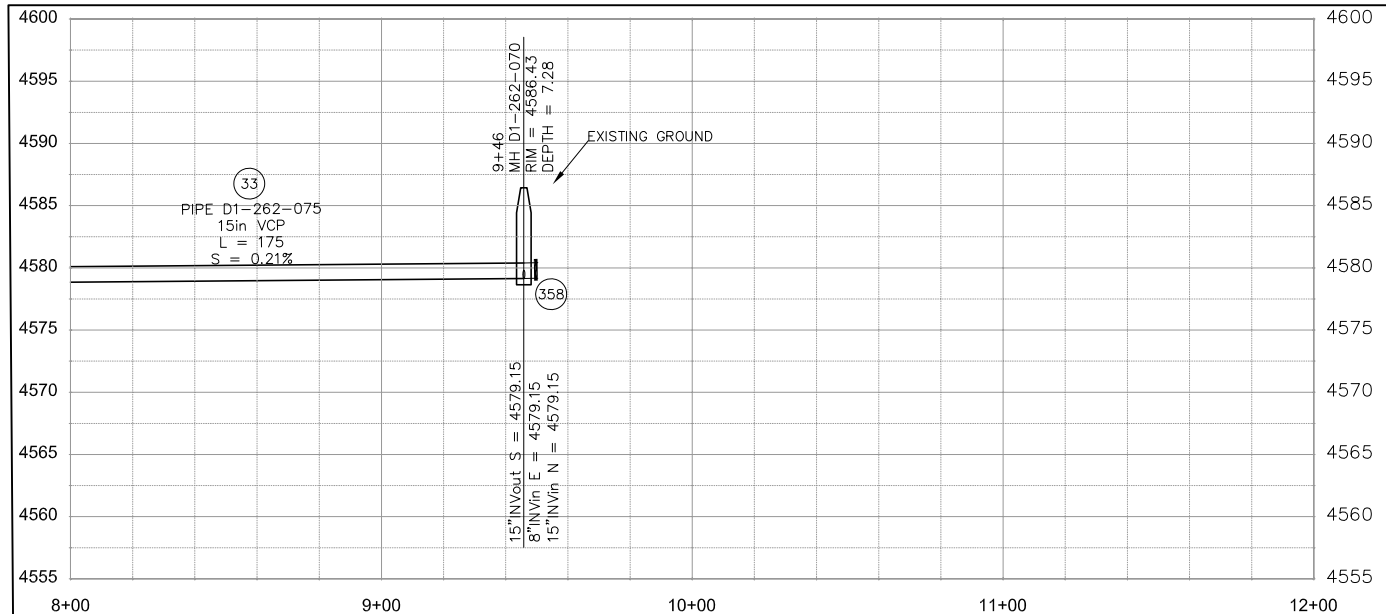
2017 SEWER LINE REPLACEMENTS
 PHASE A

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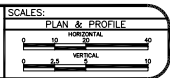
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



KEYMAP

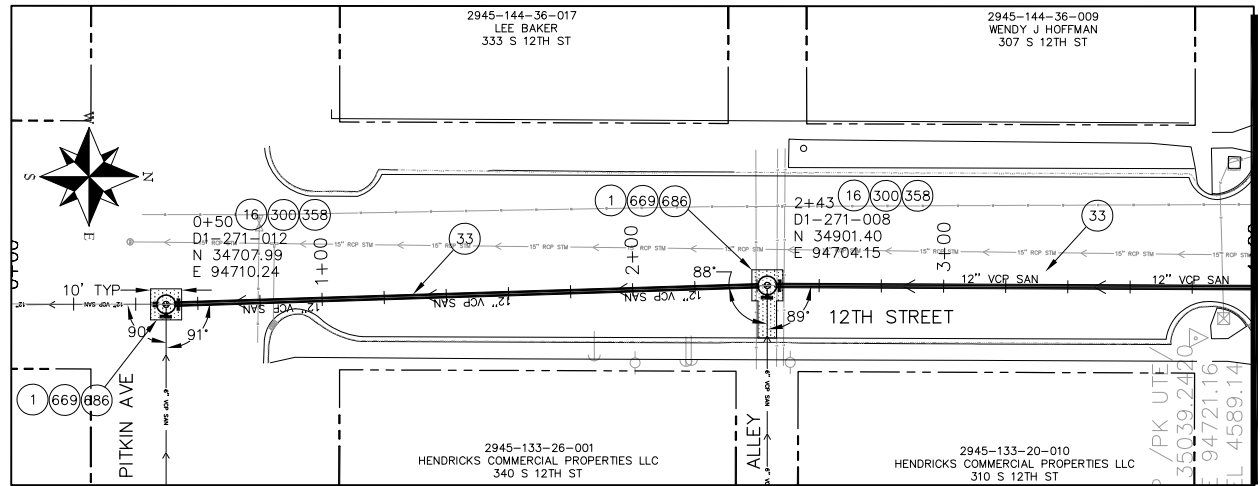
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REVISION B XXX		201X	CHECKED BY	JJV	DATE	2016
REVISION C XXX		201X	APPROVED BY	ICP	DATE	2016



**PUBLIC WORKS
ENGINEERING DIVISION**

**2017 SEWER LINE REPLACEMENTS
PHASE A**

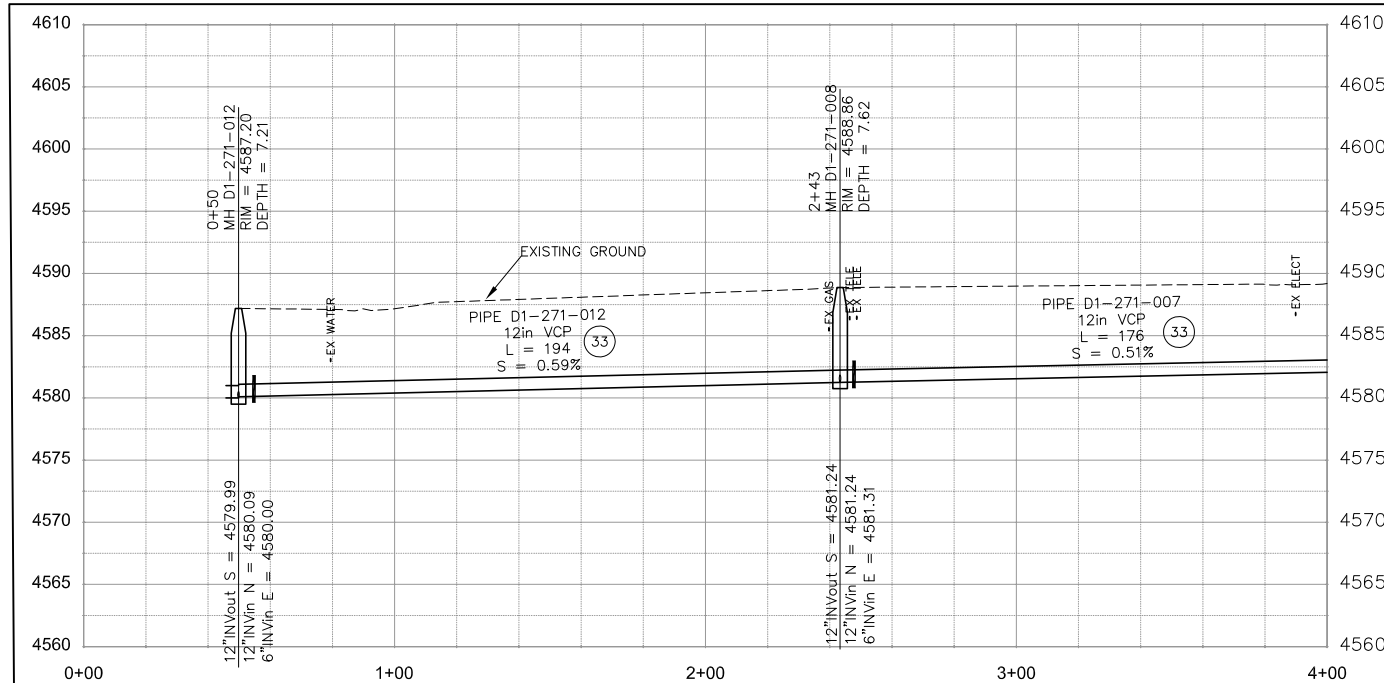
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CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. (SEPARATE CONTRACT)
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)

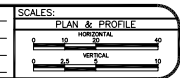
MATCH LINE STA 4+00



KEYMAP

REVISION	DESCRIPTION	DATE
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REVISION B XXX		201X
REVISION C XXX		201X
REVISION D XXX		201X

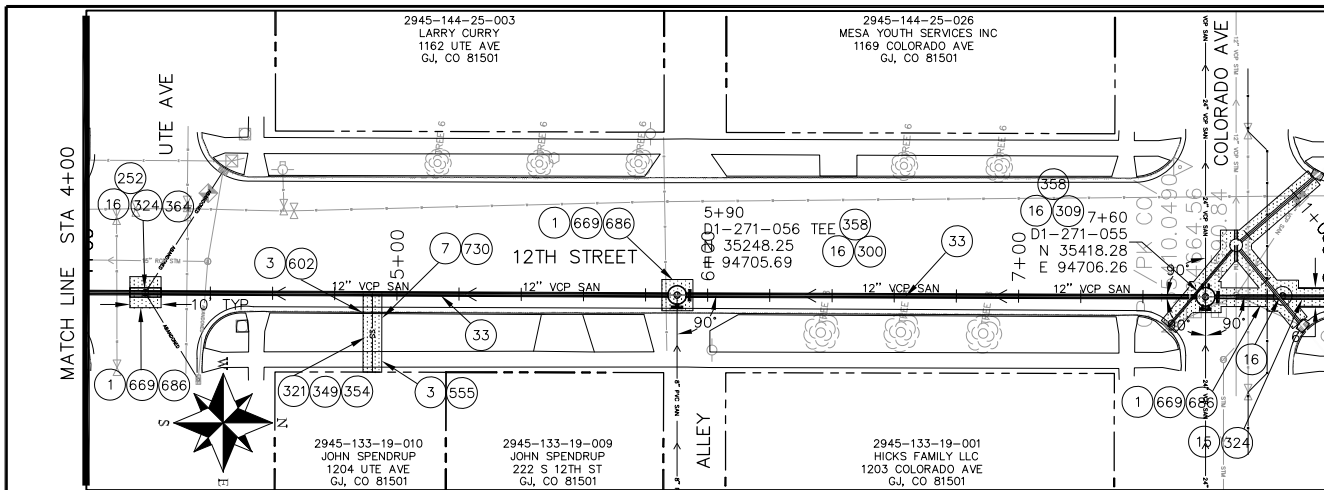
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**PUBLIC WORKS
ENGINEERING DIVISION**

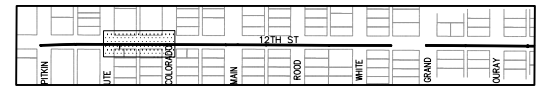
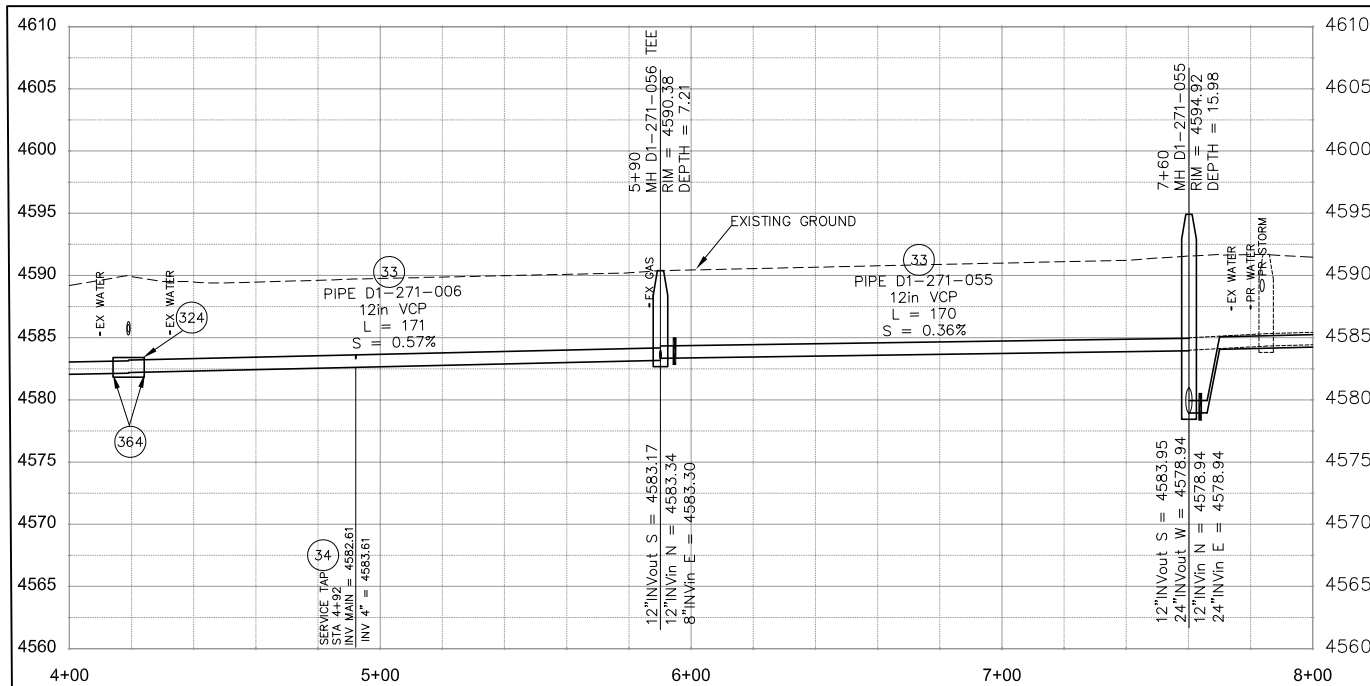
**2017 SEWER LINE REPLACEMENTS
PHASE A**

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CONSTRUCTION NOTES

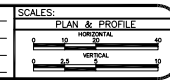
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 7 202 - REMOVAL OF SHRUB
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. SEPARATE CONTRACT.
- 252 MANHOLE SHALL BE REMOVED, NEW PIPE INSTALLED, AND CONNECTIONS BACK TO EXISTING PIPE COMPLETED PRIOR TO CIPP OPERATIONS FOR THIS RUN. CIPP "THROUGH" OLD MANHOLE LOCATION.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 309 102.11/108.5 - DROP MANHOLE BARREL SECTION (D>5") (60" I.D.)
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 349 102.9/108.3 - 12" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 364 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 555 608.06 - CONCRETE SIDEWALK (4" THICK)
- 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE)
- 669 304 - AGGREGATE BASECOURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOTBITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)
- 730 212 - RESOD AREA AS SHOWN



KEYMAP

REVISION	DESCRIPTION	DATE
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REVISION B XXX		201X
REVISION C XXX		201X
REVISION D XXX		201X

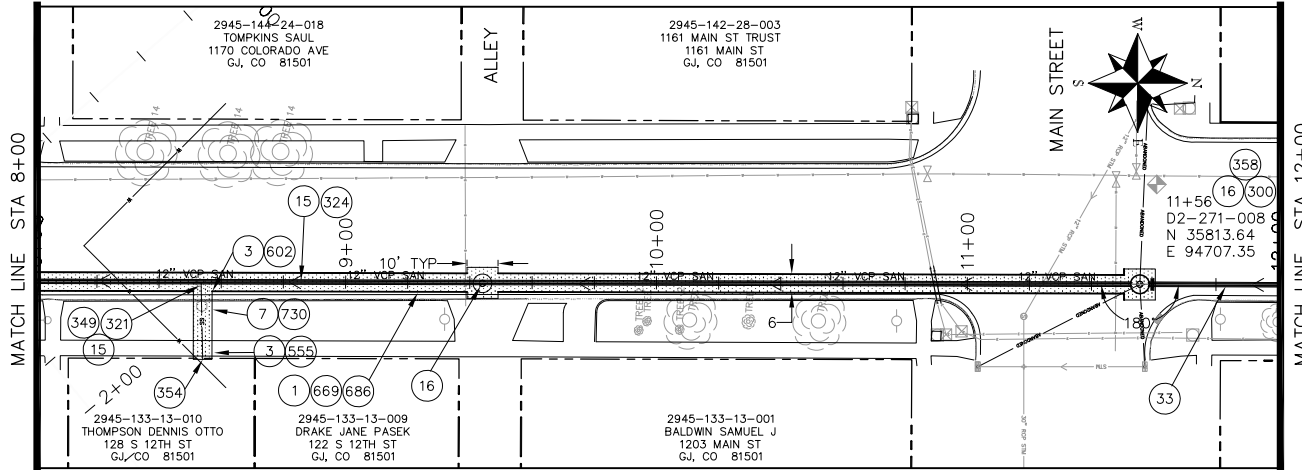
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PUBLIC WORKS
ENGINEERING DIVISION

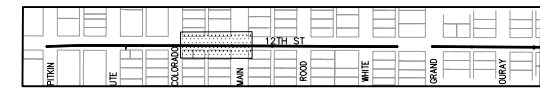
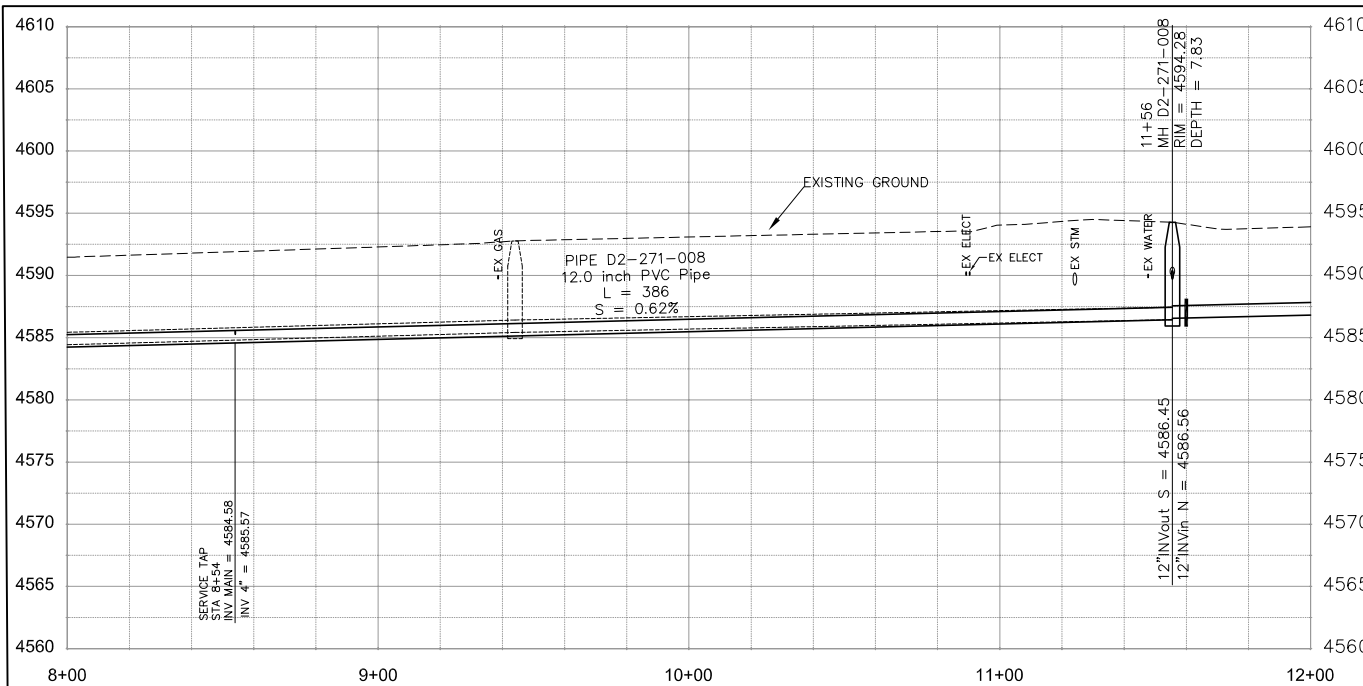
2017 SEWER LINE REPLACEMENTS
PHASE A

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CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 7 202 - REMOVAL OF SHRUB
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 349 102.9/108.3 - 12" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 555 608.06 - CONCRETE SIDEWALK (4" THICK)
- 602 608.06 - CONCRETE CURB AND GUTTER (2" WIDE)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)
- 730 212 - RESOD AREA AS SHOWN



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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REVISION Δ XXX		201X	HMC/JCS	2016
REVISION Δ XXX		201X	JJV	2016
REVISION Δ XXX		201X	ICP	2016

SCALES: PLAN & PROFILE

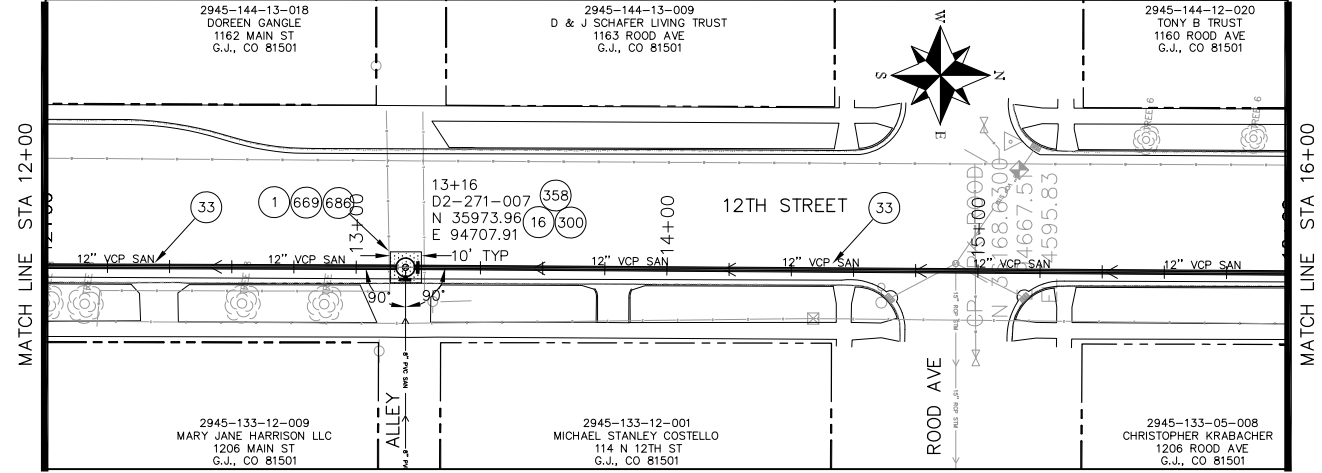
HORIZONTAL 1" = 30'

VERTICAL 1" = 3'

PUBLIC WORKS ENGINEERING DIVISION

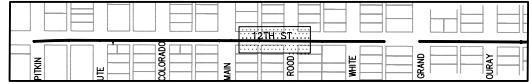
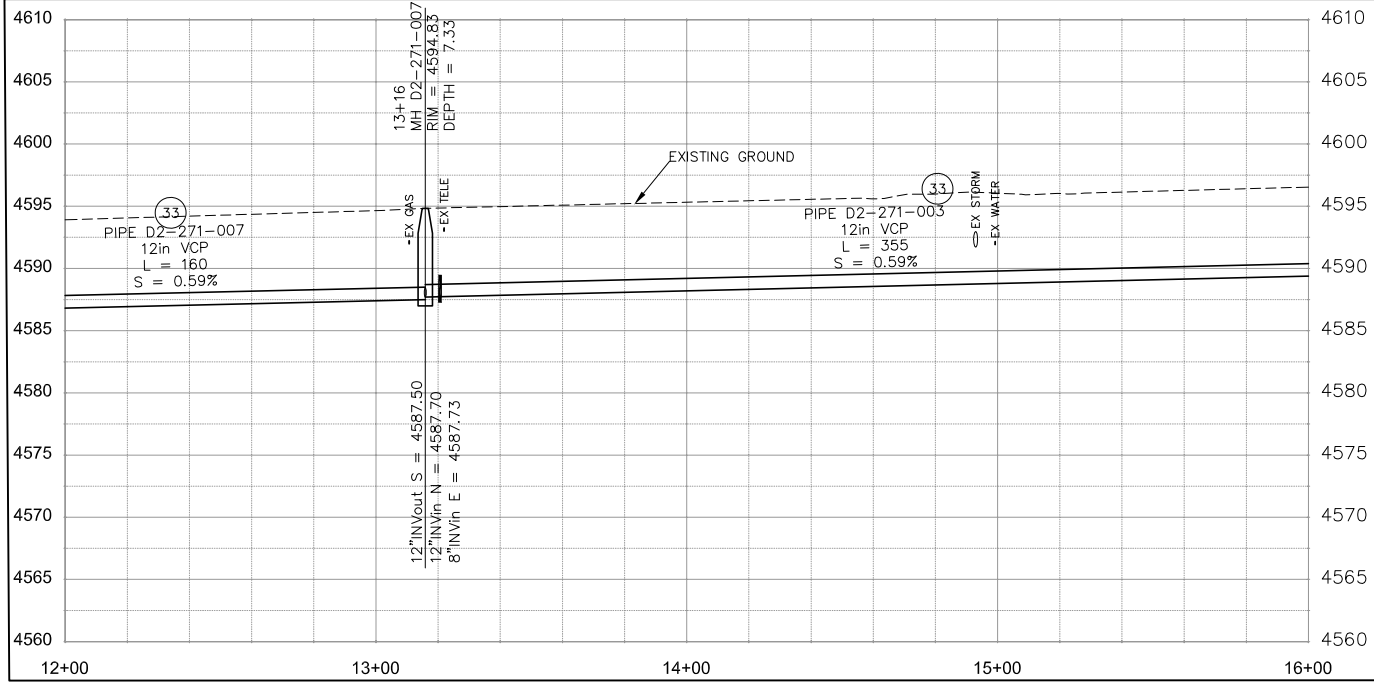
2017 SEWER LINE REPLACEMENTS PHASE A

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CONSTRUCTION NOTES

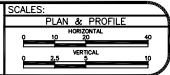
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. SEPARATE CONTRACT.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A XXX		201X	HMC/JCS	2016
REVISION B XXX		201X	HMC/JCS	2016
REVISION C XXX		201X	JJV	2016
REVISION D XXX		201X	ICP	2016

DESCRIPTION	DATE
DESIGNED BY HMC/JCS	DATE 2016
CHECKED BY JJV	DATE 2016
APPROVED BY ICP	DATE 2016



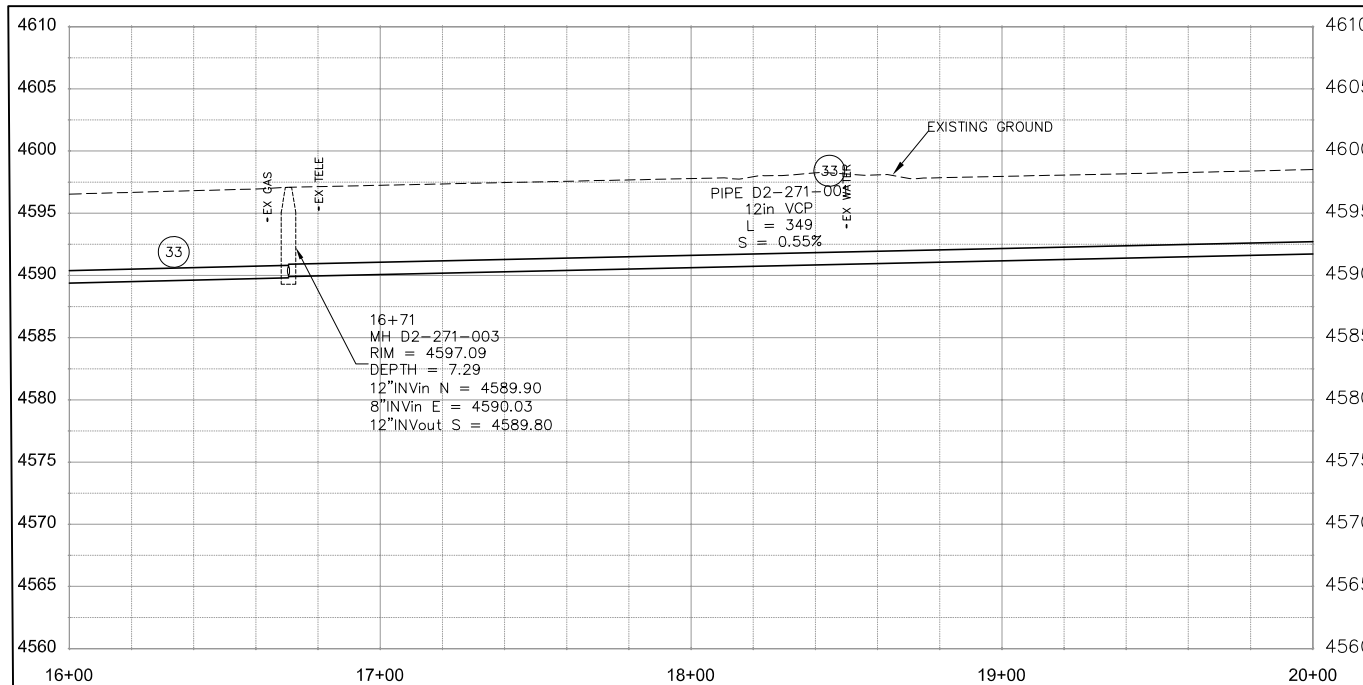
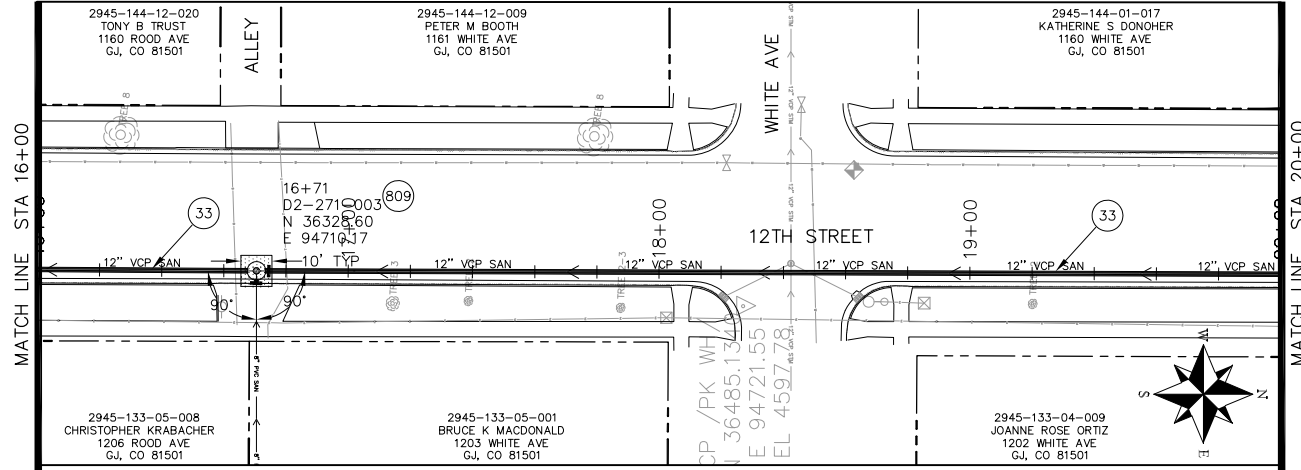
**PUBLIC WORKS
ENGINEERING DIVISION**

**2017 SEWER LINE REPLACEMENTS
PHASE A**

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CONSTRUCTION NOTES

- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC. SEPARATE CONTRACT.
- 809 PROTECT MANHOLE



KEYMAP

REVISION	DESCRIPTION	DATE
REVISION A XXX		201X
REVISION B XXX		201X
REVISION C XXX		201X
REVISION D XXX		201X

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DESIGNED BY	HMC/JCS	DATE	2016
CHECKED BY	JJV	DATE	2016
APPROVED BY	ICP	DATE	2016

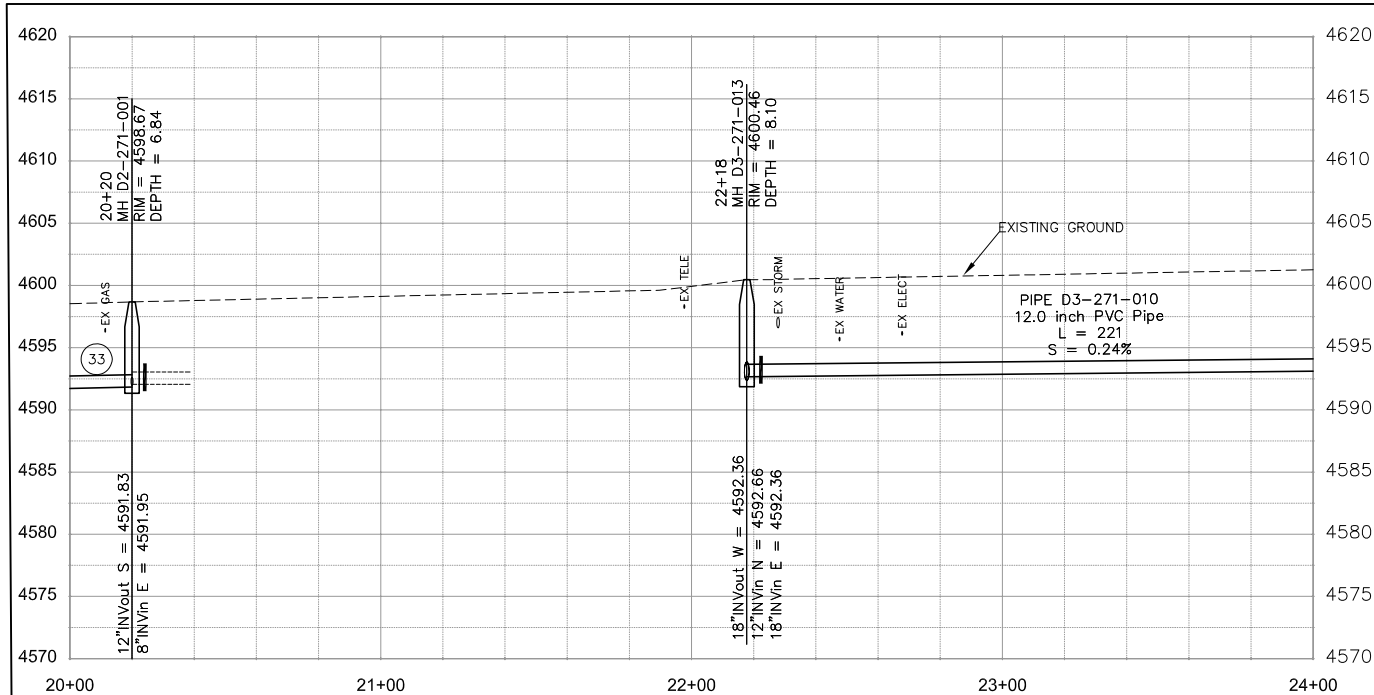
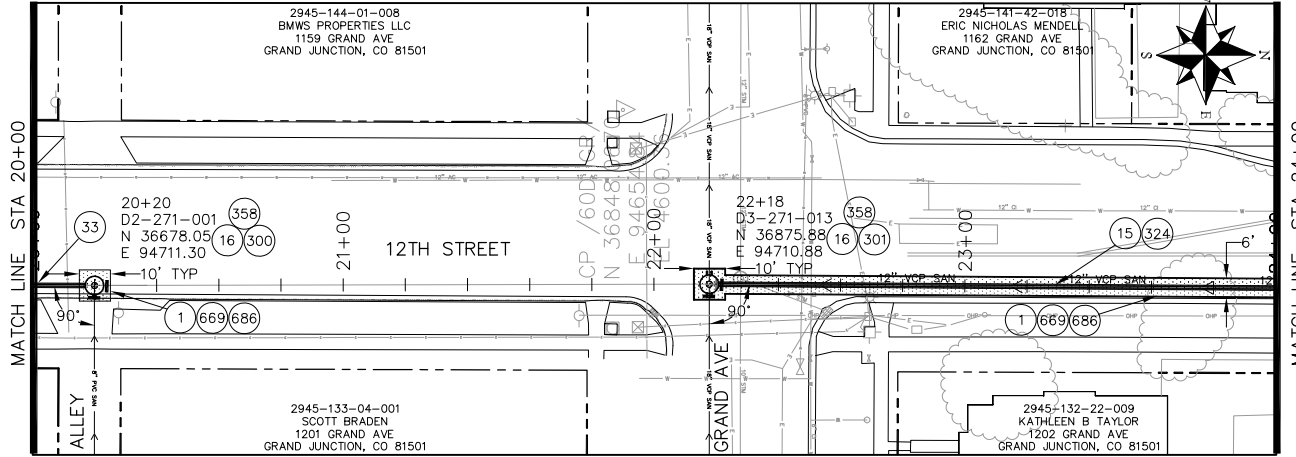
SCALES:	
PLAN & PROFILE	1" = 40'
HORIZONTAL	1" = 40'
VERTICAL	1" = 4'



**PUBLIC WORKS
ENGINEERING DIVISION**

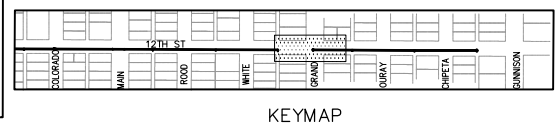
**2017 SEWER LINE REPLACEMENTS
PHASE A**

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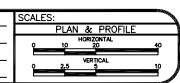
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 33 SP - CURED IN PLACE SANITARY SEWER PIPE PER PROJECT SPECIFICATIONS. DESIGNED, SUBMITTED, AND STAMPED BY P.E. FIELD VERIFY SIZE/MATERIAL BEFORE ORDERING LINER. DURING NEW PIPE INSTALLATION IT WILL BE NECESSARY TO BYPASS PUMP SEWAGE AROUND WORK TO A DOWNSTREAM MANHOLE. IF NECESSARY PROVIDE TRAFFIC CONTROL IN WORK AREA AND BYPASS AREA. MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AND TWO WAY TRAFFIC.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 301 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (60" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



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REVISION C XXX		201X
REVISION D XXX		201X

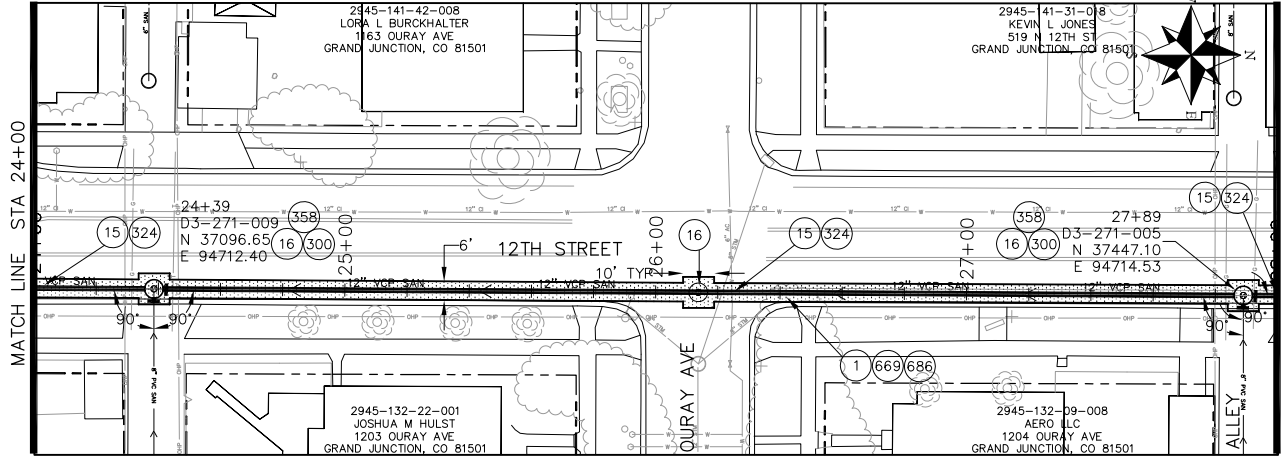
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**PUBLIC WORKS
ENGINEERING DIVISION**

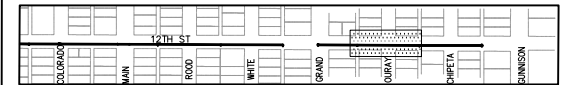
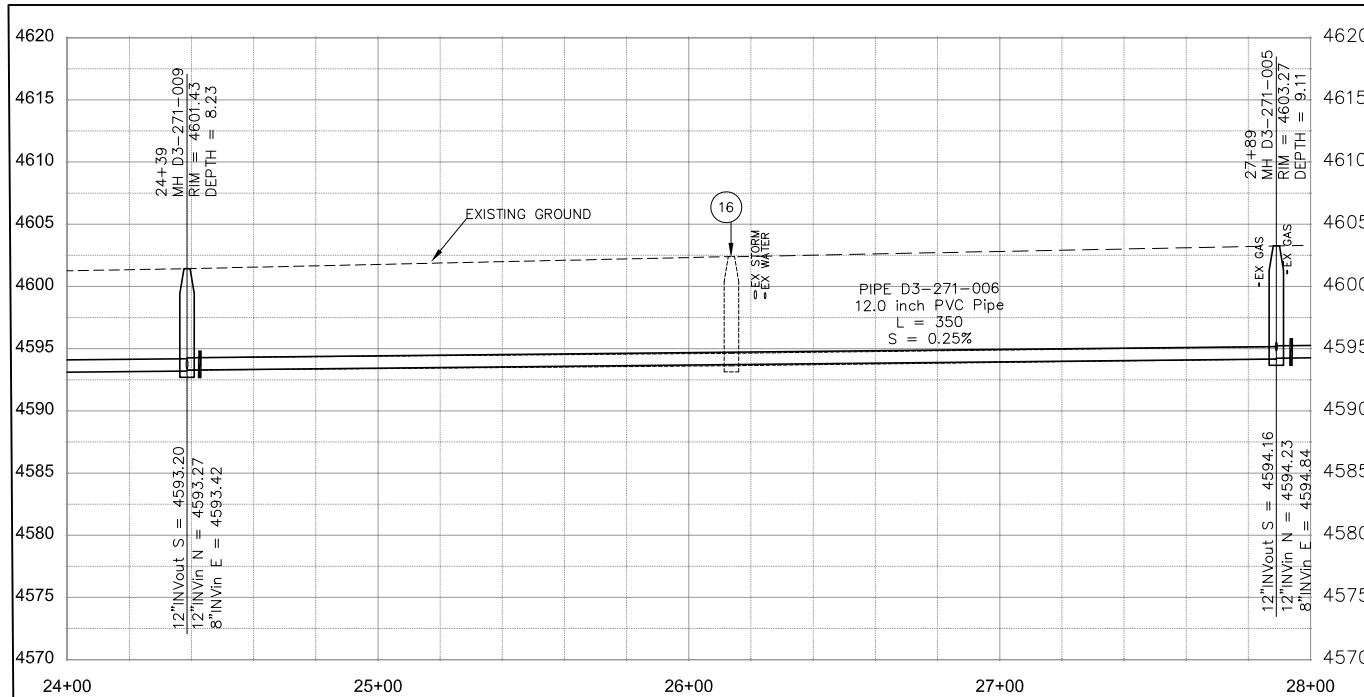
**2017 SEWER LINE REPLACEMENTS
PHASE A**

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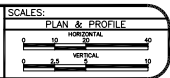
CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



KEYMAP

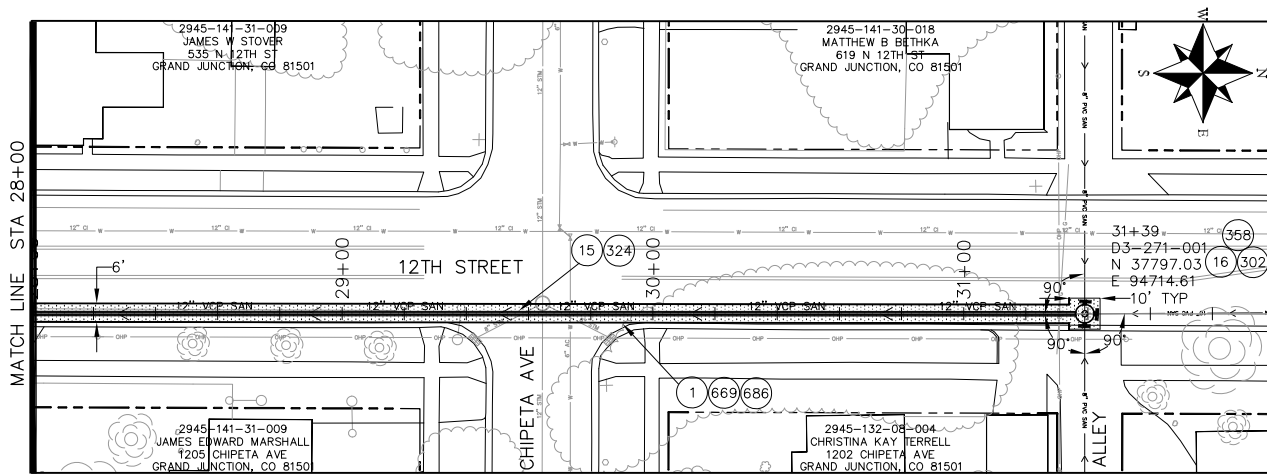
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PUBLIC WORKS
ENGINEERING DIVISION

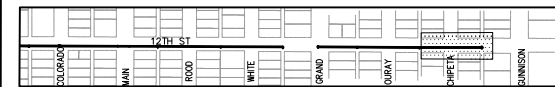
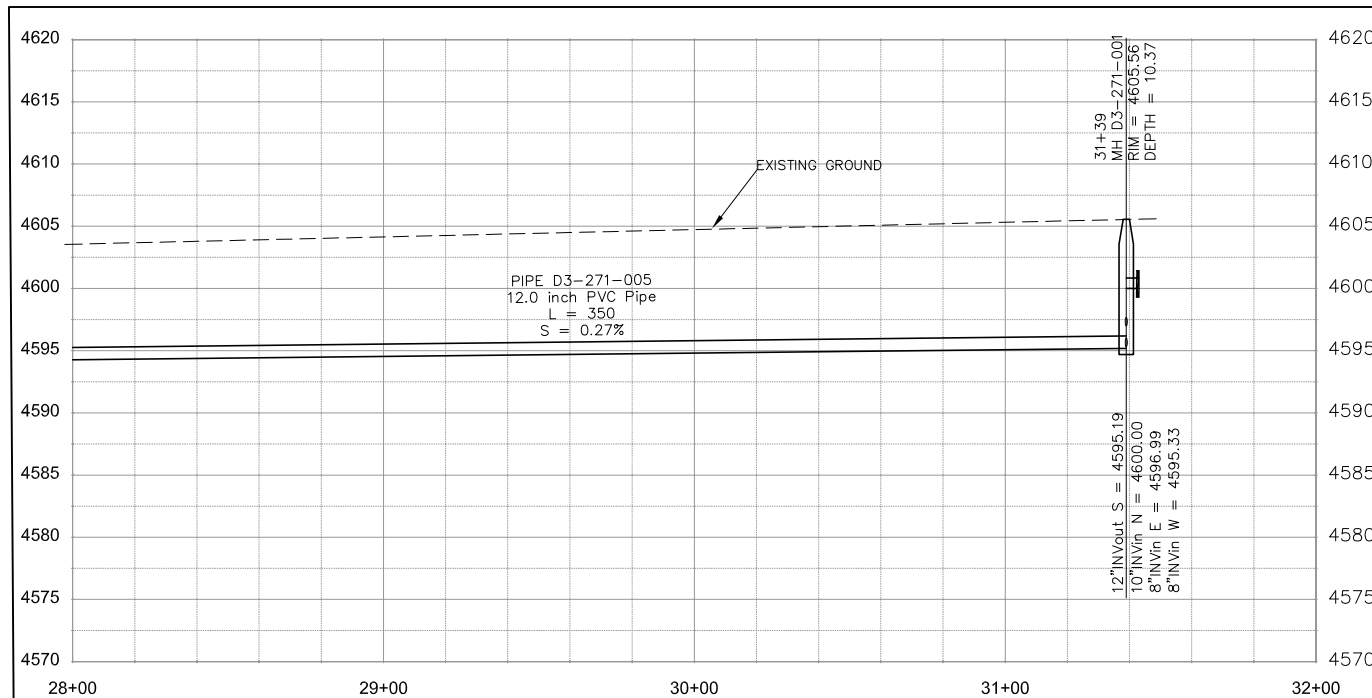
2017 SEWER LINE REPLACEMENTS
PHASE A

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CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 302 102.11/108.5 - SANITARY SEWER BASIC DROP MANHOLE (48" I.D.). INCLUDES MANHOLE COATING AS PER 102.11. (SEE STD. DETAIL SS-04).
- 324 102.9/108.2 - 12" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



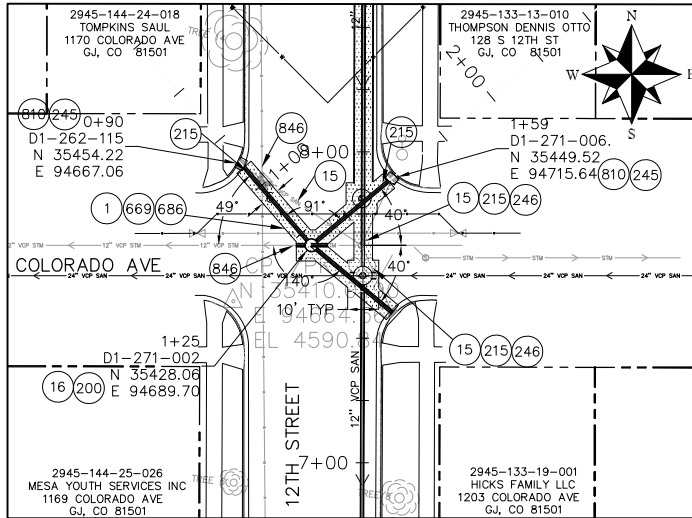
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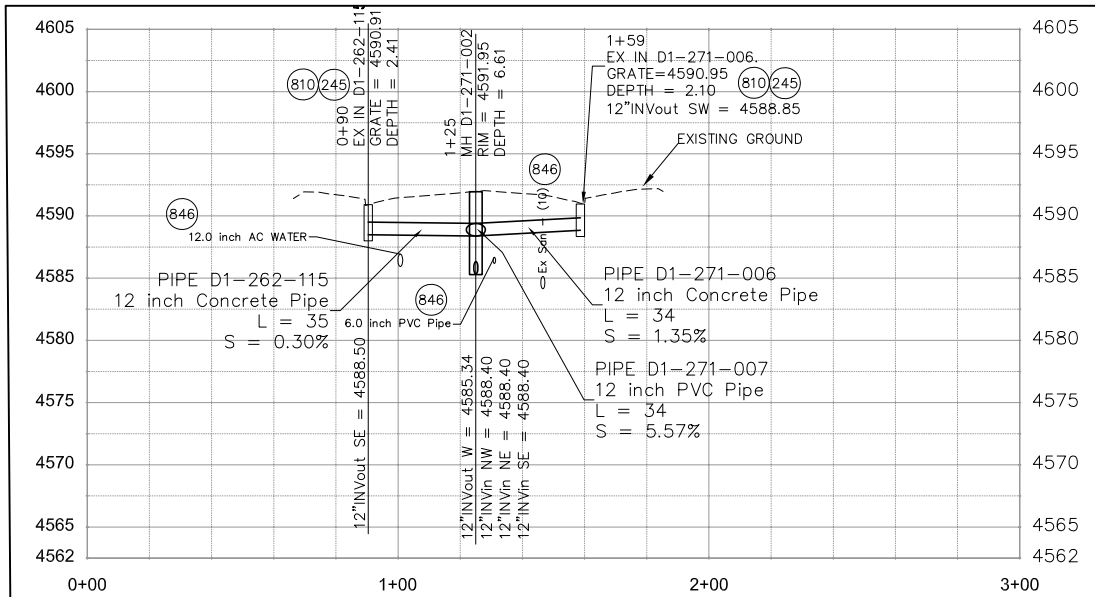
PUBLIC WORKS
ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
PHASE A



CONSTRUCTION NOTES

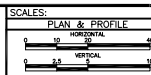
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 200 102.11/108.5 - STORM SEWER BASIC MANHOLE (48" I.D.) INCLUDES CONNECTION OF ADJACENT STORM SEWER LINES, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL D-03).
- 215 102.10/108.2 - 12" STORM DRAIN PIPE (RCP). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 245 102.13/108.6 - CONNECT TO EXISTING STORM DRAIN INLET (12" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08).
- 246 CONNECT TO EXISTING STORM DRAIN PIPE. THE CONTRACT PRICE FOR STORM DRAIN PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)
- 810 PROTECT STORM DRAIN INLET.
- 846 POT HOLE EXISTING UTILITY AHEAD OF CONSTRUCTION. TRANSITION WATER PIPE AS NEEDED TO MAINTAIN 18" CLEARANCE MINIMUM ABOVE SEWER PIPES AND 6" CLEARANCE MINIMUM ABOVE OR BELOW OTHER UTILITY LINES.



KEYMAP

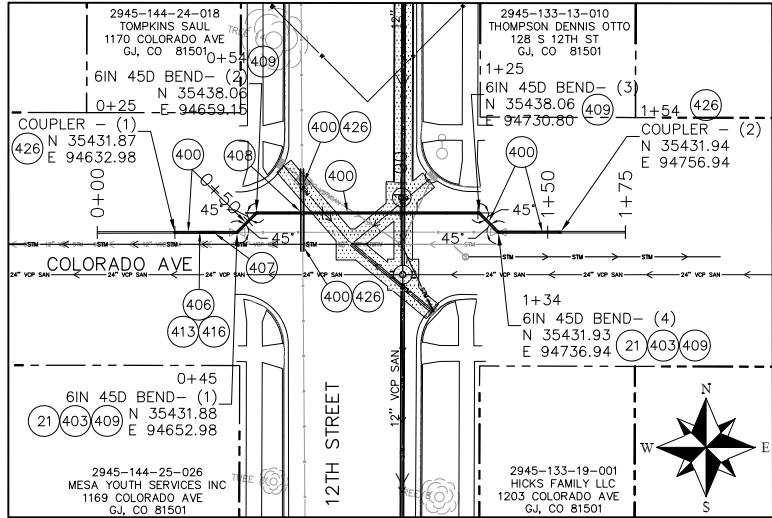
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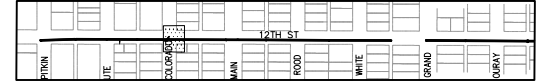
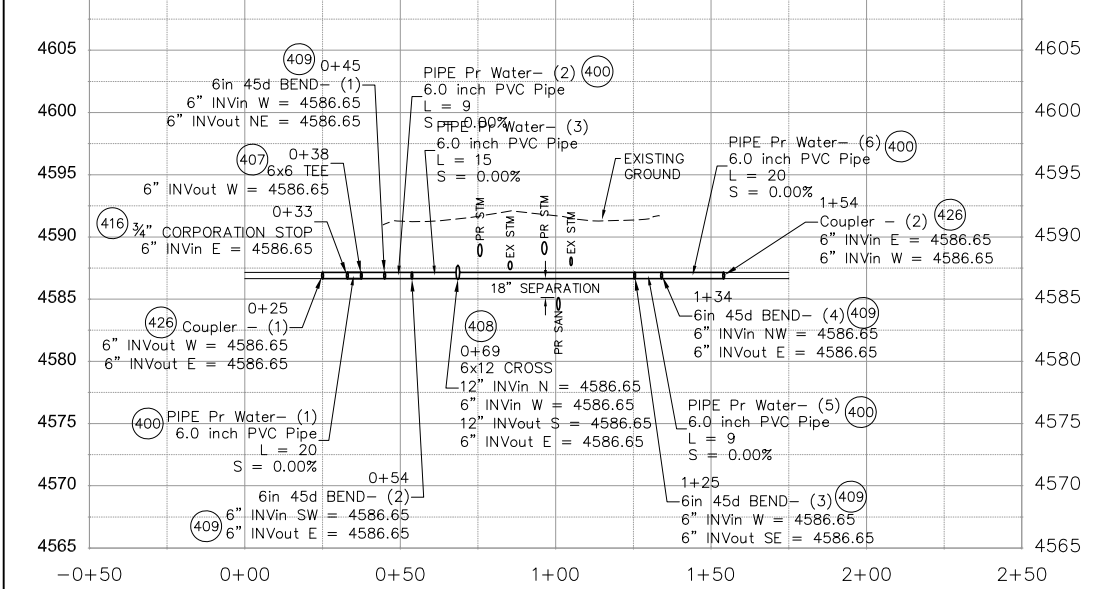
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ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
PHASE A



CONSTRUCTION NOTES

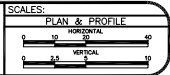
- 21 202 - REMOVE EXISTING WATER VALVE.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 406 102.8d/108.3 - TAPPING SLEEVE and VALVE (SIZE AS SHOWN).
- 407 102.8/108.3 - TEE (SIZE AS SHOWN).
- 408 102.8/108.3 - CROSS (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE (HIMAX COUPLER)



KEYMAP

REVISION	DESCRIPTION	DATE
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REVISION B XXX		
REVISION C XXX		
REVISION D XXX		

DRAWN BY HMC/JCS DATE 2016
 DESIGNED BY HMC/JCS DATE 2016
 CHECKED BY JJV DATE 2016
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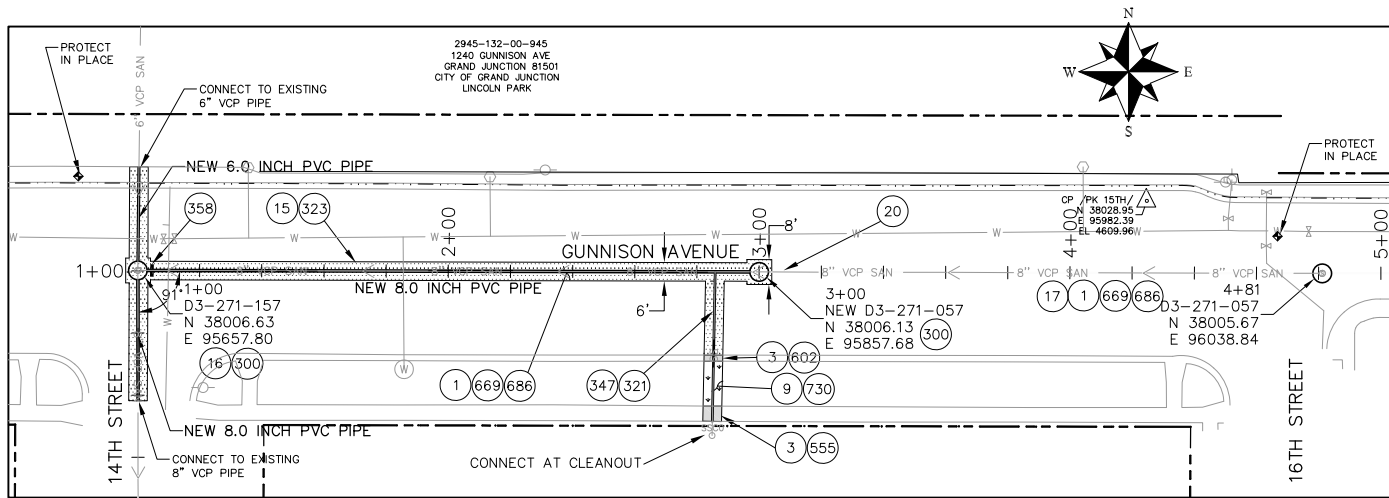


PUBLIC WORKS
 ENGINEERING DIVISION

2017 SEWER LINE REPLACEMENTS
 PHASE A

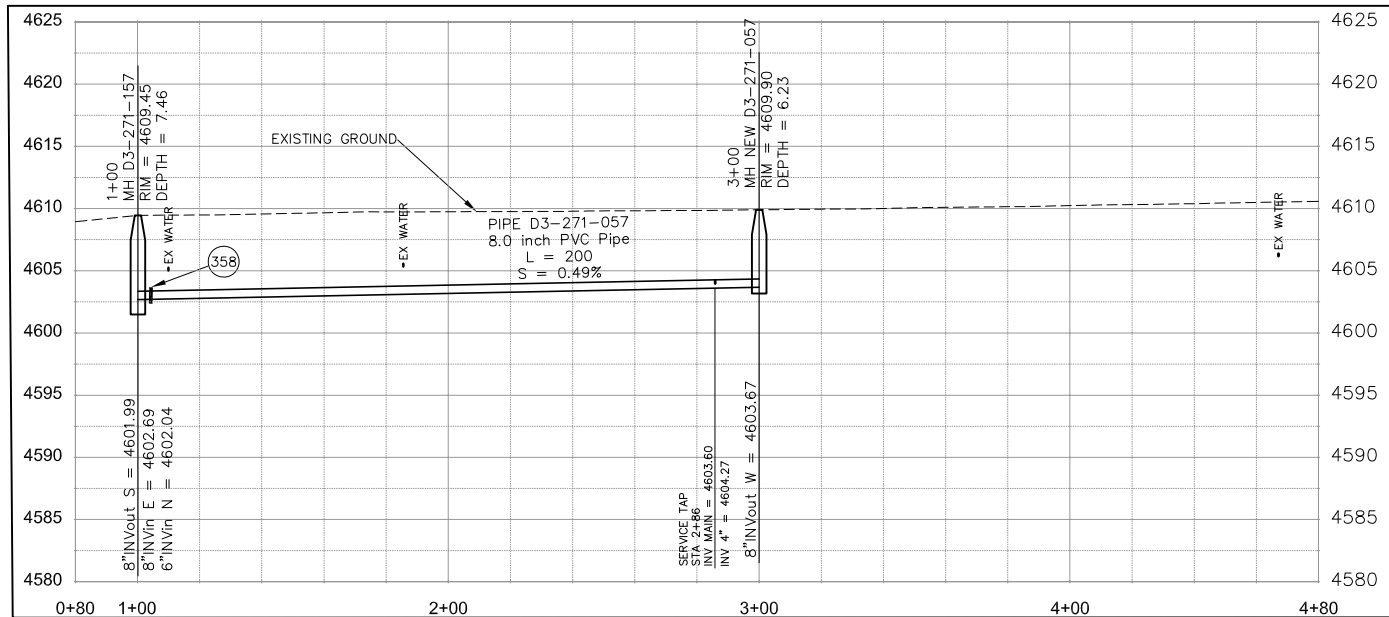
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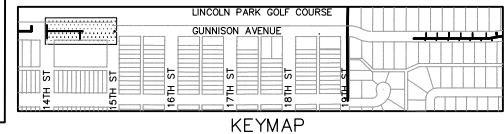


CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 9 202 - REMOVAL OF SOD.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 17 202 - REMOVE MANHOLE CONE SECTION, RING, AND COVER. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS. CONTRACTOR SHALL FILL REMAINING BARREL SECTIONS WITH FLOW FILL MATERIAL.
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 602 608.06 - CONCRETE CURB AND GUTTER (2' WIDE)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)
- 730 212 - RESOD AREA AS SHOWN

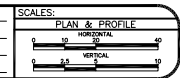


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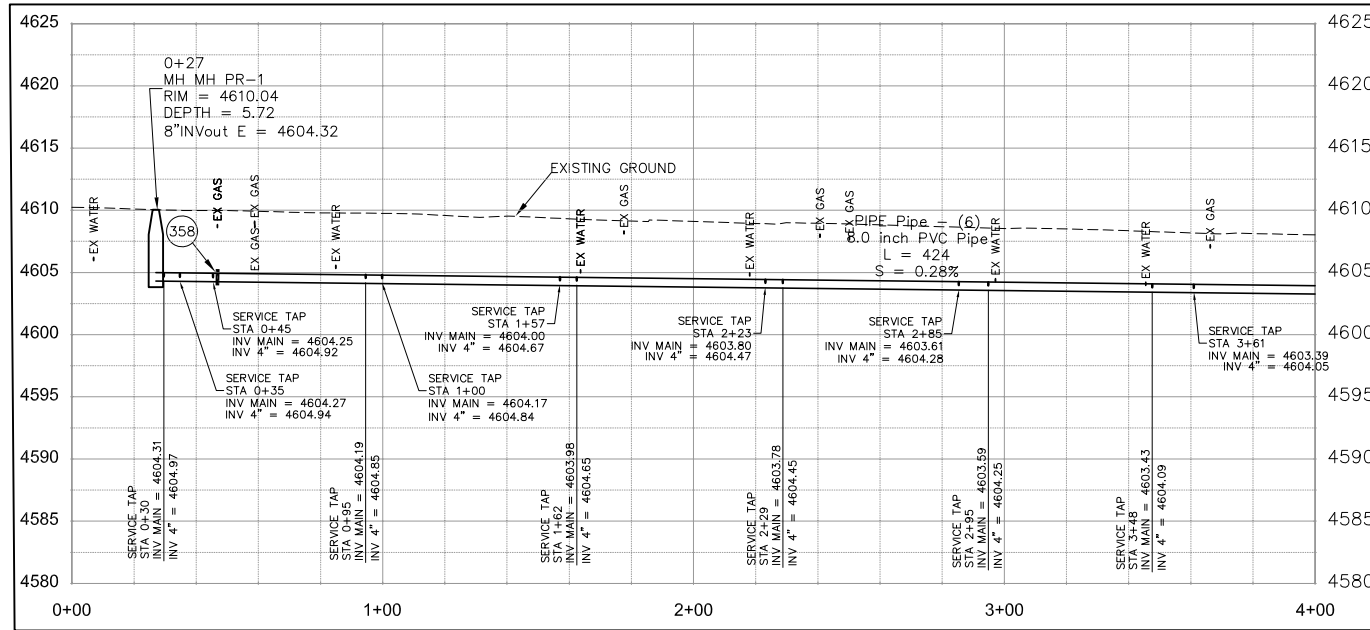
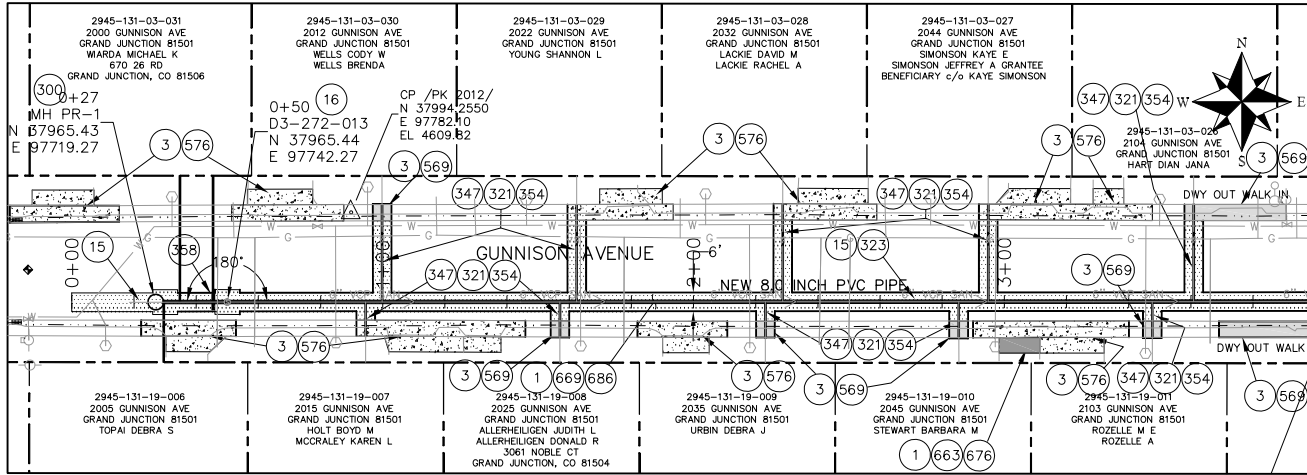
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2017 SEWER LINE REPLACEMENTS PHASE A

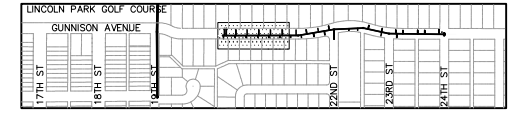
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CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02)
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 569 608.06 - MONOLITHIC CURB, GUTTER AND SIDEWALK (DRIVE OVER) (5' WIDE)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 676 401.08 - HOT BITUMINOUS PAVEMENT (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)

SEE PAVING PLANS FOR PAVING DATA



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DRAWN BY HMC/JCS	DATE 2016
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SCALES: PLAN & PROFILE

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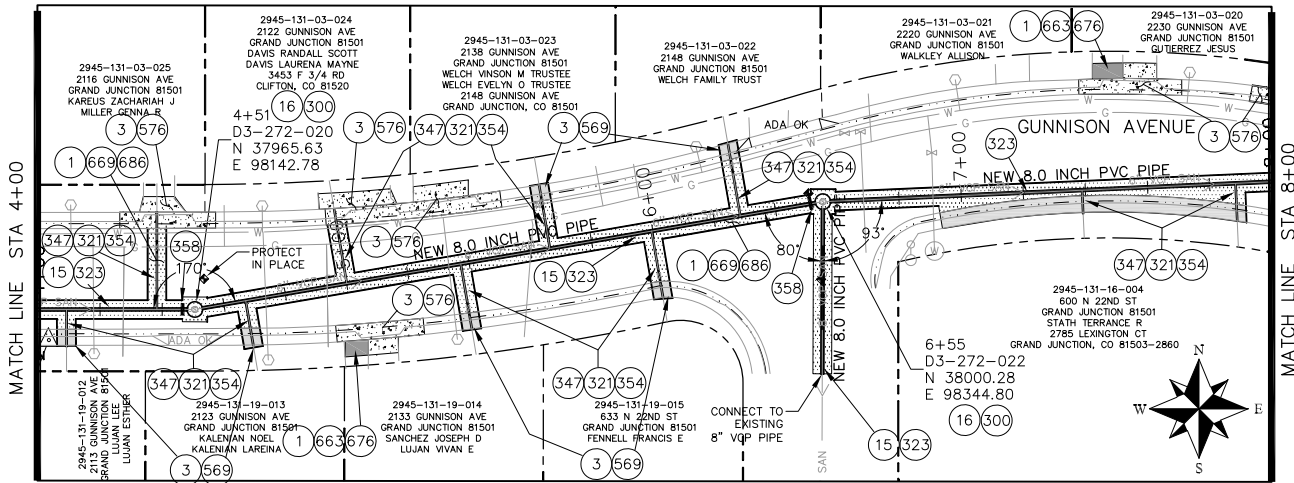
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ENGINEERING DIVISION

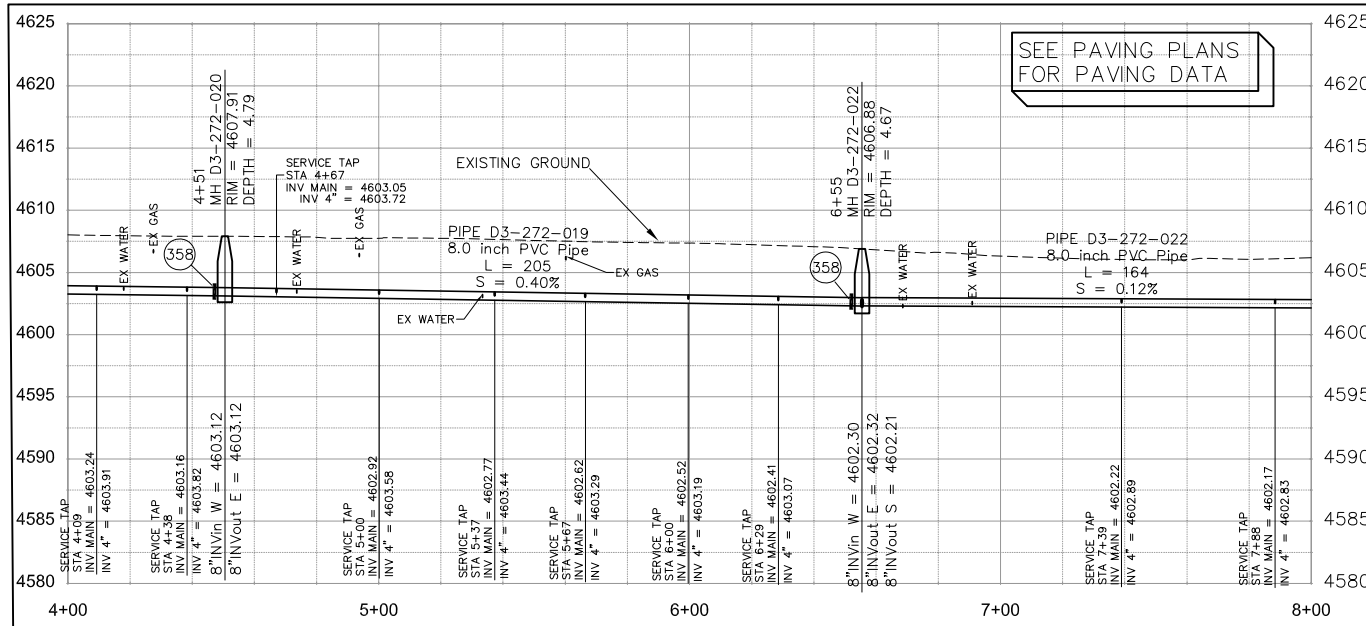
2017 SEWER LINE REPLACEMENTS
PHASE A

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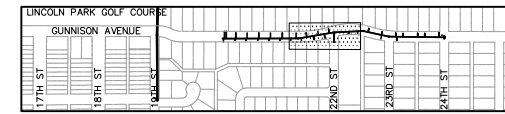


CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
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- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 110 629 - REFERENCE AND RESET SURVEY MONUMENT. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR'S SURVEYOR MUST SUBMIT FIELD NOTES DETAILING THE PERMANENT REFERENCES PLACED FOR EACH MONUMENT IN DANGER OF LOSS DUE TO CONSTRUCTION.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
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- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
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- 676 401.08 - HOT BITUMINOUS PAVEMENT (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)

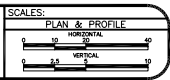


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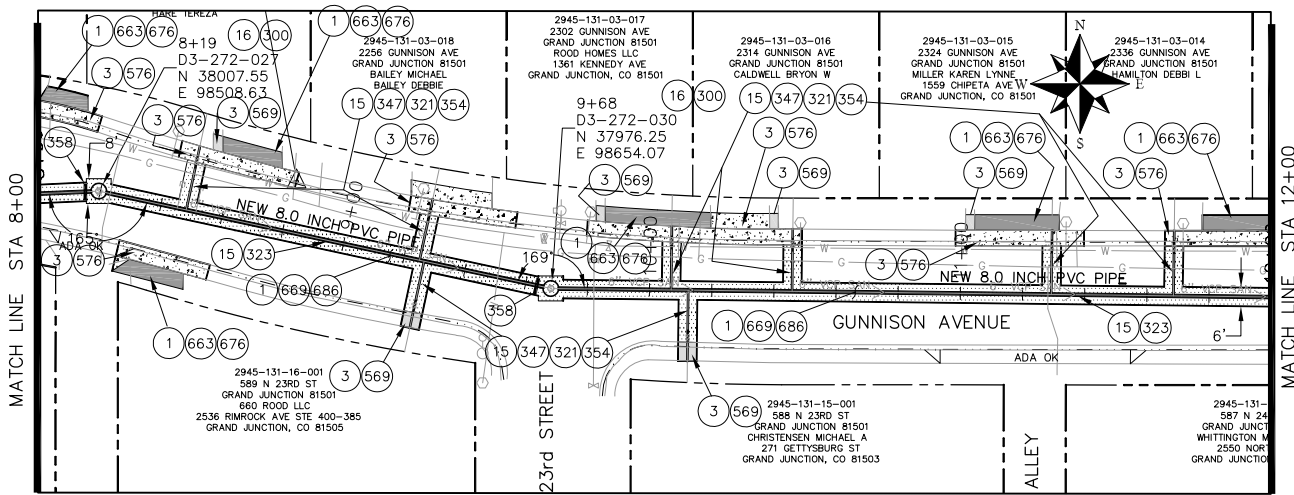
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PUBLIC WORKS
ENGINEERING DIVISION

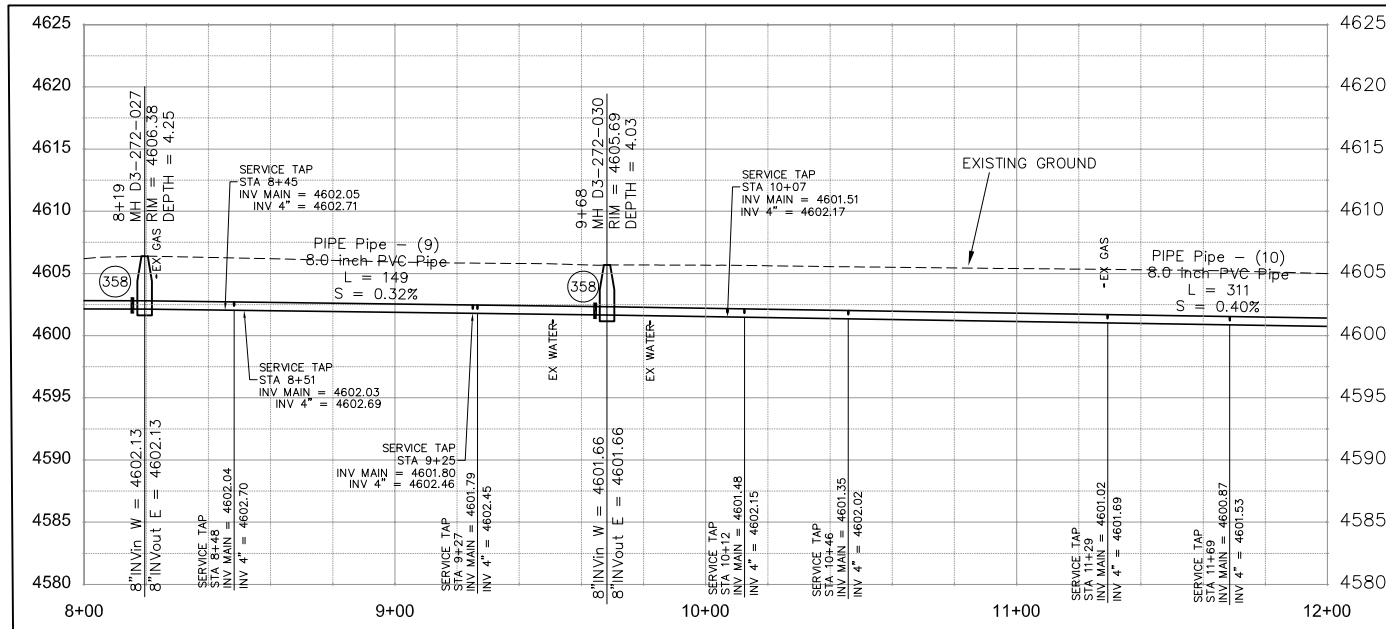
2017 SEWER LINE REPLACEMENTS
PHASE A

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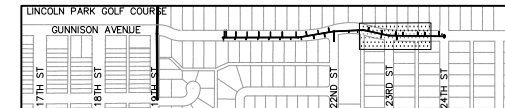


CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
- 16 202 - REMOVAL OF MANHOLE. CONTRACTOR SHALL SALVAGE RING AND COVER AND DELIVER TO CITY SHOPS.
- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06).
- 354 104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 569 608.06 - MONOLITHIC CURB, GUTTER AND SIDEWALK (DRIVE OVER) (5' WIDE)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 676 401.08 - HOT BITUMINOUS PAVEMENT (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)

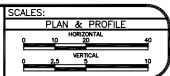


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REVISION D XXX		201X

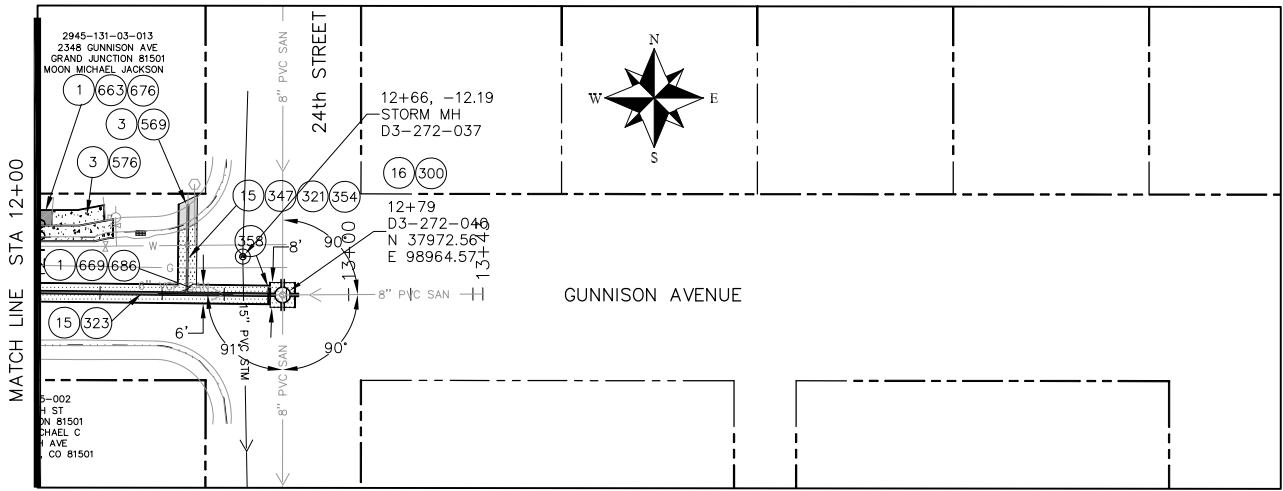
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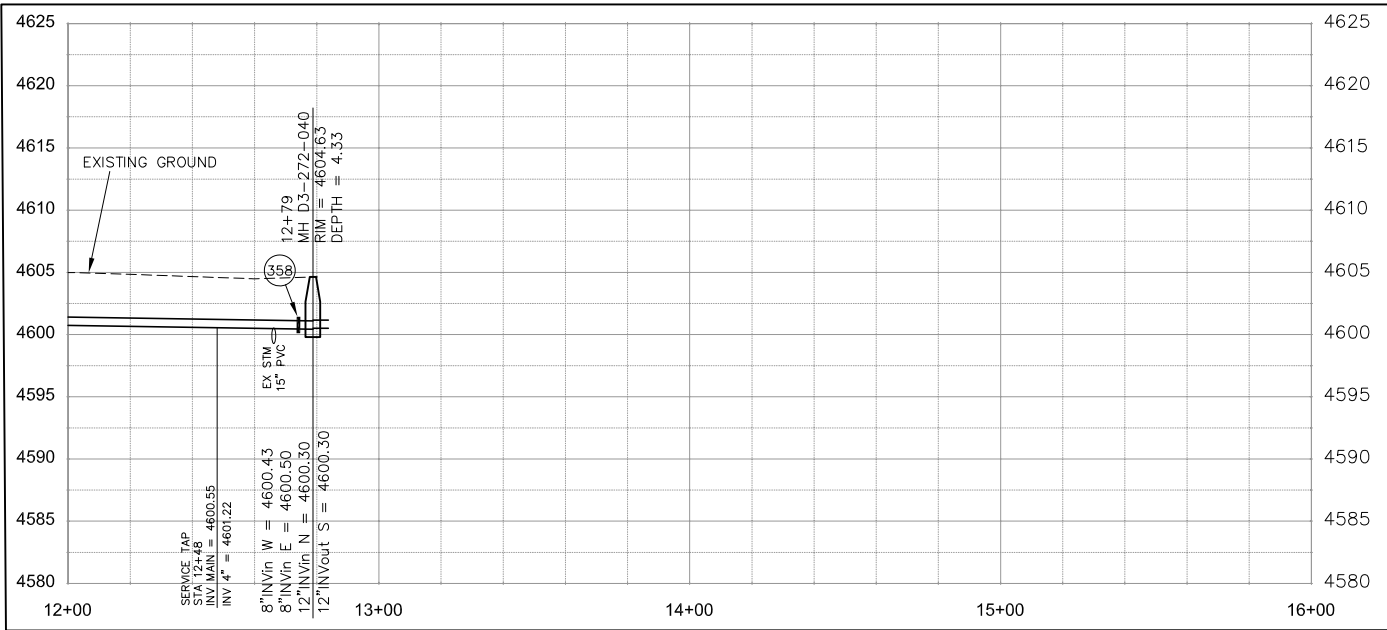
**2017 SEWER LINE REPLACEMENTS
PHASE A**

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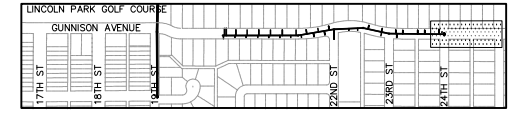


CONSTRUCTION NOTES

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
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- 300 102.11/108.5 - SANITARY SEWER BASIC MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS AND ADJUSTING TO FINAL GRADE. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-02).
- 321 102.9/108.2 - 4" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 8" x 4" SEWER SERVICE TAP. FULL BODY WYE (SEE STD. DETAIL SS-06). 354104.20 - INSTALL 2-WAY SANITARY SEWER SERVICE CLEANOUT (STD. DETAIL SS-07). INCLUDES CLEANOUT RING AND COVER AND CONCRETE COLLAR IN UNPAVED AREAS (SEE STD. DETAIL SS-07).
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 569 608.06 - MONOLITHIC CURB, GUTTER AND SIDEWALK (DRIVE OVER) (5' WIDE)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 669 304 - AGGREGATE BASE COURSE (CLASS 6) (16" THICK)
- 676 401.08 - HOT BITUMINOUS PAVEMENT (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 686 401.08 - HOT BITUMINOUS PAVEMENT (1" THICK) (GRADING SX, BINDER GRADE PG 64-22)



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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES:
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REVISION B XXX		201X	HMC/JCS	2016	HORIZONTAL
REVISION C XXX		201X	JJV	2016	VERTICAL
REVISION D XXX		201X	ICP	2016	



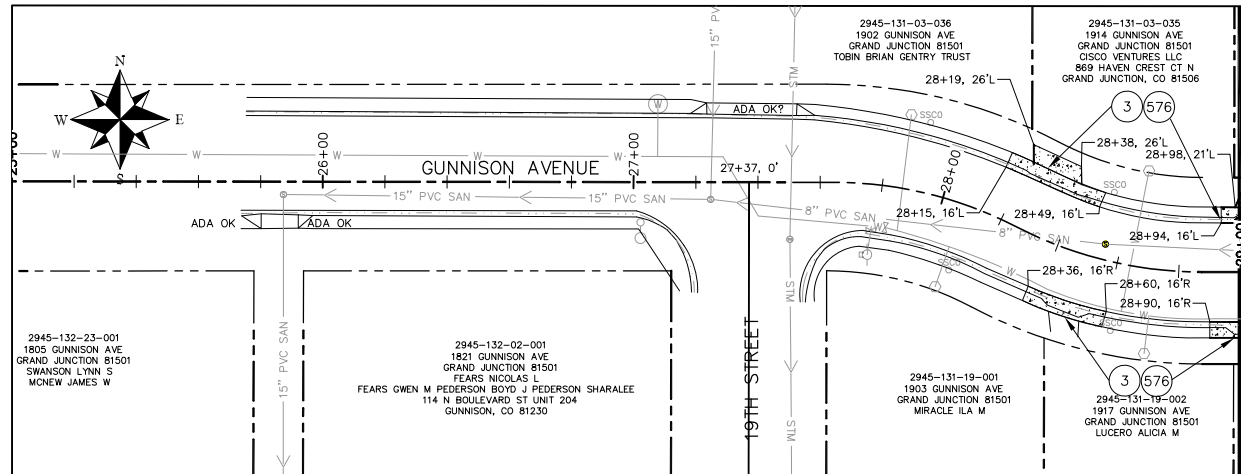
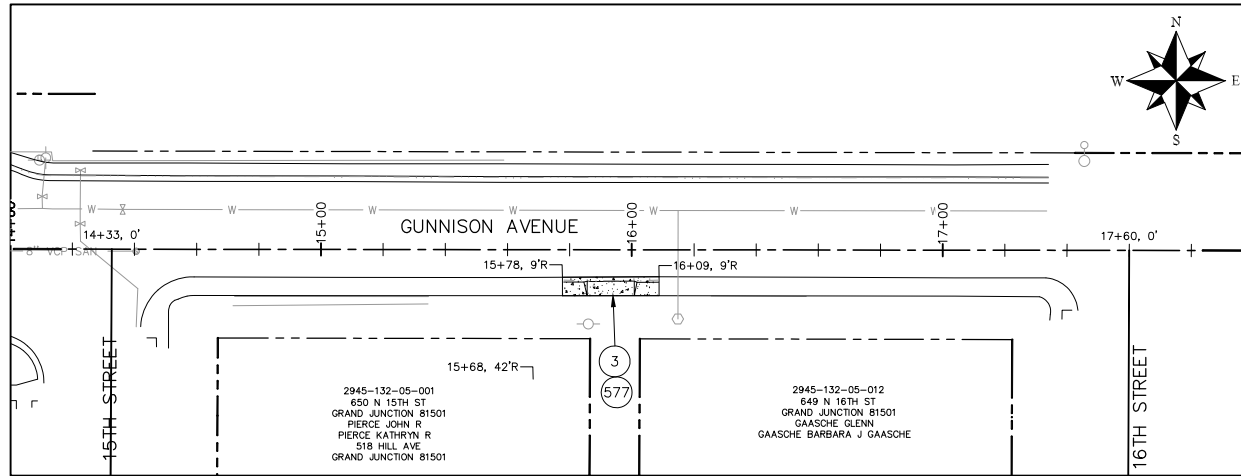
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2017 SEWER LINE REPLACEMENTS PHASE A

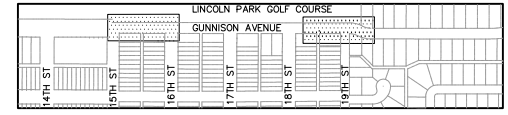
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CONSTRUCTION NOTES

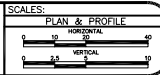
- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 577 608.06 - CONCRETE DRIVEWAY SECTION (8" THICK) (COMMERCIAL)



SEE SEWER PLANS FOR PAVING DATA RELATED TO SEWER



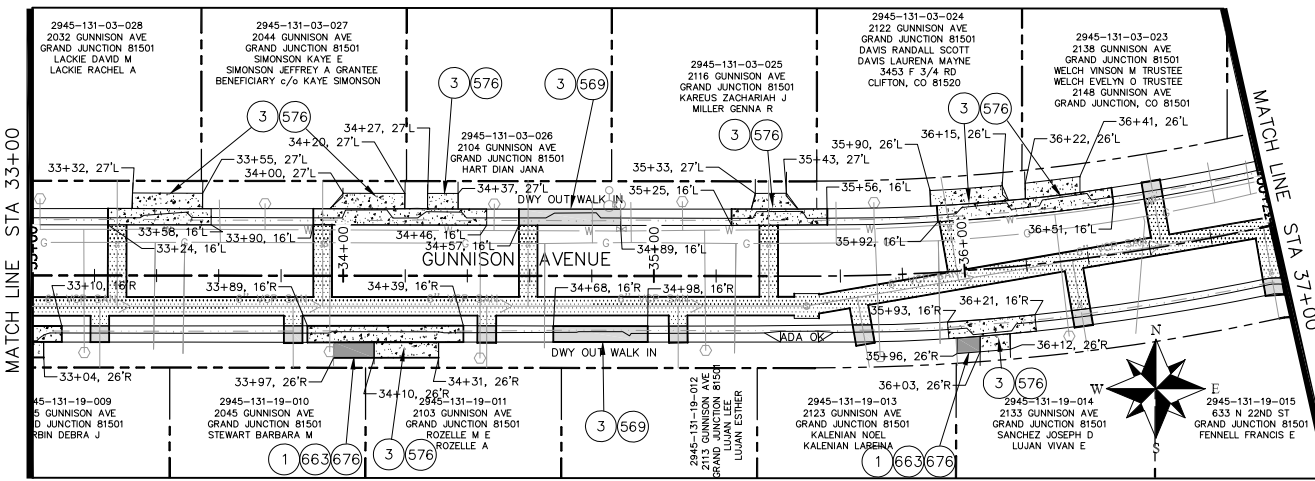
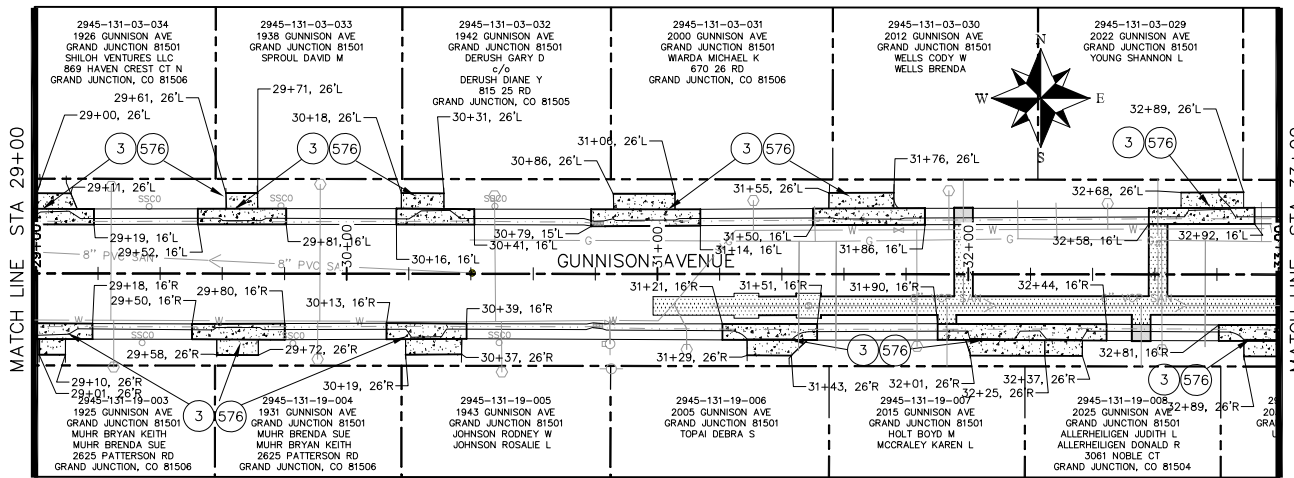
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REVISION A XXX																		
REVISION B XXX																		
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REVISION D XXX																		



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**2017 SEWER LINE REPLACEMENTS
PHASE A**

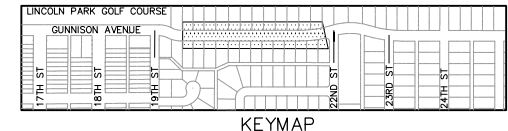
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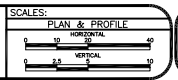
CONSTRUCTION NOTES

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- 569 608.06 - MONOLITHIC CURB, GUTTER AND SIDEWALK (DRIVE OVER) (5' WIDE)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 676 401.08 - HOT BITUMINOUS PAVEMENT (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

SEE SEWER PLANS FOR PAVING DATA RELATED TO SEWER



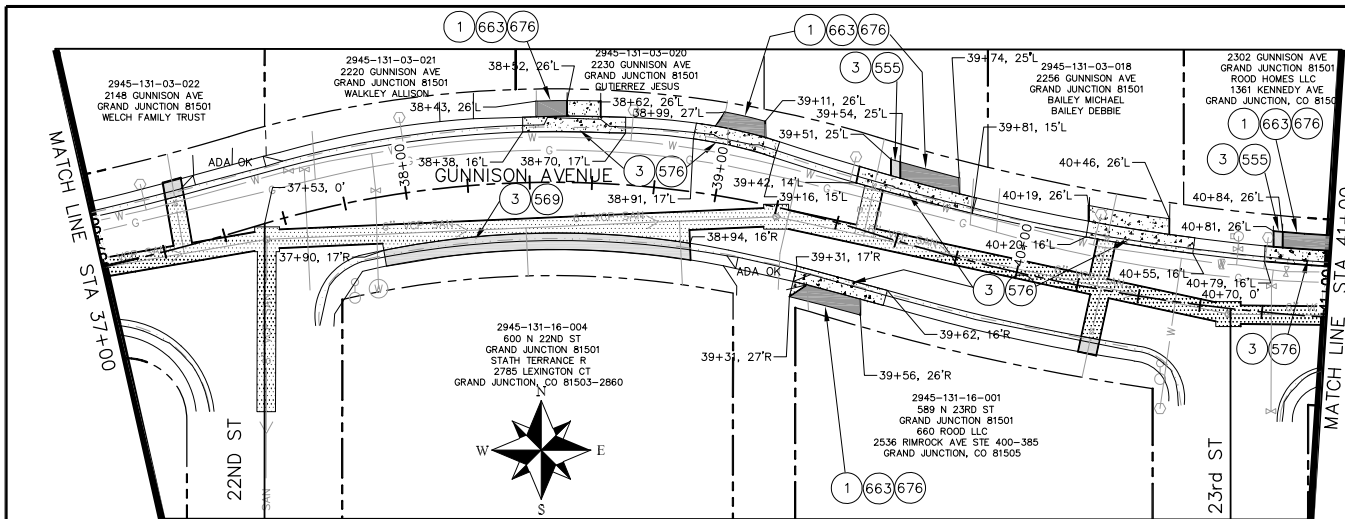
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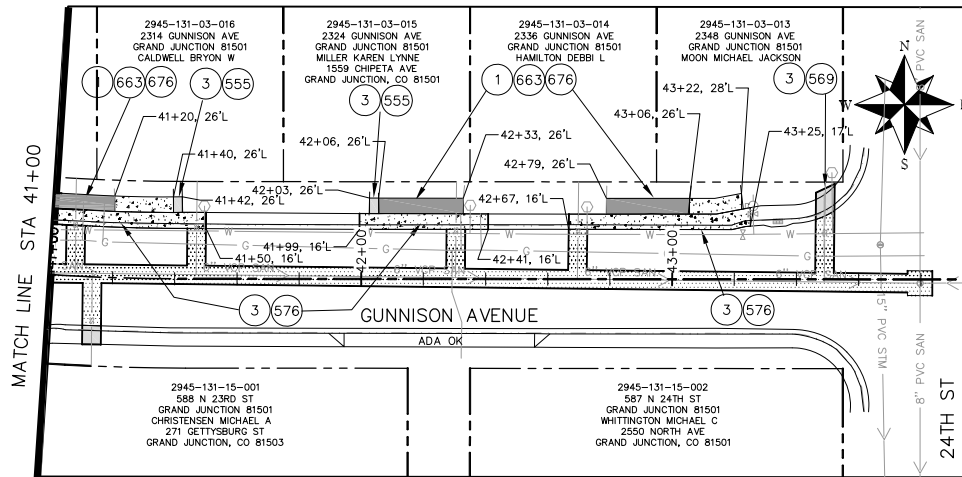
2017 SEWER LINE REPLACEMENTS
PHASE A

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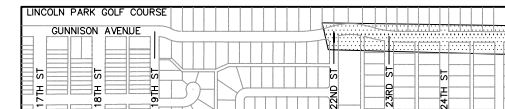


CONSTRUCTION NOTES

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- 3 202 - REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.
- 555 608.06 - CONCRETE SIDEWALK (4" THICK)
- 569 608.06 - MONOLITHIC CURB, GUTTER AND SIDEWALK (DRIVE OVER) (5' WIDE)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 676 401.08 - HOT BITUMINOUS PAVEMENT (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

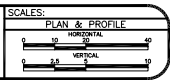


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REVISION	DESCRIPTION	DATE
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REVISION B XXX		201X
REVISION C XXX		201X
REVISION D XXX		201X

DESCRIPTION	DATE	DRAWN BY	HMC/JCS	DATE	2016
DESIGNED BY	HMC/JCS	DATE	2016		
CHECKED BY	JJV	DATE	2016		
APPROVED BY	ICP	DATE	2016		



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2017 SEWER LINE REPLACEMENTS
PHASE A