



**NOTICE OF AWARD**

Date: August 17, 2017  
Company: M.A. Concrete Construction, Inc.  
Project: 28 1/2 Road Sewer and Water Line Replacement and Overlay IFB-4399-17-DH

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You have been awarded the City of Grand Junction 28 1/2 Road Sewer and Water Line Replacement and Overlay IFB-4399-17-DH for a total price of **\$615,409.29**.

Please notify Jerod Timothy, City of Grand Junction Project Engineer 970-244-1565 for project scheduling and return to the City Purchasing Division an acknowledged copy of this Notice of Award, signed Contract, Payment & Performance Bonds, and Certificate of Insurance.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:  
*Duane Hoff*  
9F788E7D69F448C...  
Duane Hoff Jr., Senior Buyer

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**SUPPLIER ACKNOWLEDGEMENT**

Receipt of this Notice to Award is hereby acknowledged:

Company: DocuSigned by:  
*Martin Azcarraga - President*  
D8D24E7358A3474...

By: Martin Azcarraga - President

Title: President

Date: 8/22/2017 | 09:42 MDT



CITY OF GRAND JUNCTION, COLORADO

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**CONTRACT**

This CONTRACT made and entered into this 17<sup>th</sup> day of August, 2017 by and between the City of Grand Junction, Colorado, a government entity in the County of Mesa, State of Colorado, hereinafter in the Contract Documents referred to as the "Owner" and M.A. Concrete Construction, Inc. hereinafter in the Contract Documents referred to as the "Contractor."

WITNESSETH:

WHEREAS, the Owner advertised that sealed Bids would be received for furnishing all labor, tools, supplies, equipment, materials, and everything necessary and required for the Project described by the Contract Documents and known as 28 1/2 Road Sewer and Water Line Replacement and Overlay IFB-4399-17-DH.

WHEREAS, the Contract has been awarded to the above named Contractor by the Owner, and said Contractor is now ready, willing and able to perform the Work specified in the Notice of Award, in accordance with the Contract Documents;

NOW, THEREFORE, in consideration of the compensation to be paid the Contractor, the mutual covenants hereinafter set forth and subject to the terms hereinafter stated, it is mutually covenanted and agreed as follows:

**ARTICLE 1**

Contract Documents: It is agreed by the parties hereto that the following list of instruments, drawings, and documents which are attached hereto, bound herewith, or incorporated herein by reference constitute and shall be referred to either as the "Contract Documents" or the "Contract", and all of said instruments, drawings, and documents taken together as a whole constitute the Contract between the parties hereto, and they are fully a part of this agreement as if they were set out verbatim and in full herein:

The order of contract document governance shall be as follows:

- a. The body of this contract agreement
- b. Solicitation Documents for the Project; **28 1/2 Road Sewer and Water Line Replacement and Overlay;**
- c. Notice of Award
- d. Contractors Response to the Solicitation
- e. Work Change Requests (directing that changed work be performed);
- f. Field Orders
- g. Change Orders.

**ARTICLE 2**

Definitions: The clauses provided in the Solicitation apply to the terms used in the Contract and all the Contract Documents.

### ARTICLE 3

Contract Work: The Contractor agrees to furnish all labor, tools, supplies, equipment, materials, and all that is necessary and required to complete the tasks associated with the Work described, set forth, shown, and included in the Contract Documents as indicated in the Solicitation Document.

### ARTICLE 4

Contract Time and Liquidated Damages: Time is of the essence with respect to this Contract. The Contractor hereby agrees to commence Work under the Contract on or before the date specified in the Solicitation from the Owner, and to achieve Substantial Completion and Final Completion of the Work within the time or times specified in the Solicitation. In the event the Work is not completed in the times set forth and as agreed upon, the Contractor further agrees to pay Liquidated Damages to the Owner as set forth in the Solicitation. The Contractor acknowledges and recognizes the delays, expenses and difficulties involved in proving in a legal proceeding the actual losses suffered by the Owner if the work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and the Contractor agree that as Liquidated Damages for delay, but not as a penalty, the Contractor shall pay to the Owner the amounts specified in the Solicitation.

### ARTICLE 5

Contract Price and Payment Procedures: The Contractor shall accept as full and complete compensation for the performance and completion of all of the Work specified in the Contract Documents, the sum of **Six Hundred Fifteen Thousand Four Hundred Nine and 00/100 Dollars (\$615,409.29)**. If this Contract contains unit price pay items, the Contract Price shall be adjusted in accordance with the actual quantities of items completed and accepted by the Owner at the unit prices quoted in the Solicitation Response. The amount of the Contract Price is and has heretofore been appropriated by the Grand Junction City Council for the use and benefit of this Project. The Contract Price shall not be modified except by Change Order or other written directive of the Owner. The Owner shall not issue a Change Order or other written directive which requires additional work to be performed, which work causes the aggregate amount payable under this Contract to exceed the amount appropriated for this Project, unless and until the Owner provides Contractor written assurance that lawful appropriations to cover the costs of the additional work have been made.

Unless otherwise provided in the Solicitation, monthly partial payments shall be made as the Work progresses. Applications for partial and Final Payment shall be prepared by the Contractor and approved by the Owner in accordance with the Solicitation.

Upon Final Completion of the Work under the Contract and before the Contractor shall receive final payment, the Owner shall publish at least twice in a newspaper of general circulation published in the County a notice that: 1. the Owner has accepted such Work as completed according to the Contract Documents; 2. the Contractor is entitled to final payment therefore; 3. thirty days after the first publication, specifying the exact date, the

Owner shall pay the full balance due under the Contract; and 4. persons having claims for labor, materials, team hire, sustenance, provisions, provender, or other supplies used or consumed by the Contractor or a subcontractor shall file a verified statement of the amount due and unpaid on account of such claim prior to the date specified for such payment. Nothing herein shall be construed as relieving the Contractor and the Sureties on the Contractor's Bonds from any claim or claims for work or labor done or materials or supplies furnished in the execution of the Contract.

ARTICLE 6

**Bonds:** The Contractor shall furnish currently herewith the Bonds required by the Contract Documents, such Bonds being attached hereto. The Performance Bond shall be in an amount not less than one hundred percent (100%) of the Contract Price set forth in Article 5. The Payment Bond shall be in an amount not less than one hundred (100%) of the Contract Price set forth in Article 5.

ARTICLE 7

**Contract Binding:** The Owner and the Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents. The Contract Documents constitute the entire agreement between the Owner and Contractor and may only be altered, amended or repealed by a duly executed written instrument. Neither the Owner nor the Contractor shall, without the prior written consent of the other, assign or sublet in whole or in part its interest under any of the Contract Documents and specifically, the Contractor shall not assign any moneys due or to become due without the prior written consent of the Owner.

ARTICLE 8

**Severability:** If any part, portion or provision of the Contract shall be found or declared null, void or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having the authority thereover, only such part, portion or provision shall be effected thereby and all other parts, portions and provisions of the Contract shall remain in full force and effect.

IN WITNESS WHEREOF, City of Grand Junction, Colorado, has caused this Contract to be subscribed and sealed and attested in its behalf; and the Contractor has signed this Contract the day and the year first mentioned herein.

The Contract is executed in two counterparts.

**CITY OF GRAND JUNCTION, COLORADO**

DocuSigned by:  
*Duane Hoff*  
By: \_\_\_\_\_  
9F789E7D60F148C...  
Duane Hoff Jr., Senior Buyer

8/22/2017 | 16:57 MDT  
\_\_\_\_\_  
Date

**M.A. Concrete Construction, Inc.**

DocuSigned by:  
*Martin Azcarraga - President*  
By: \_\_\_\_\_  
D8D24E735BA2471...  
Martin Azcarraga - President president

8/22/2017 | 09:41 MDT  
\_\_\_\_\_  
Date



Purchasing Division

## Invitation for Bid

IFB-4399-17-DH  
28 ½ Road Sewer and Water Line  
Replacement and Overlay

### **Responses Due:**

July 27, 2017 prior to 3:30pm

**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](mailto: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**

## **Table of Contents**

Section 1	Instruction to Bidders
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	Price Proposal/Bid Schedule Form
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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 to perform the work associated with the 28 ½ Road Sewer and Water Line Replacement and Overlay Project. The project generally consists of the installation of 70 lf of 6" waterline, 1800 lf of 8" waterline, 535 lf of 4" sanitary sewer service line, 1200 lf of 8" sanitary sewer mainline, 950 lf of 10" sanitary sewer mainline, 165 lf 8" storm drain pipe, 110 lf ¾" water service line, 8 sanitary sewer manholes, 2 storm drain inlets: approximately 3,250 sy yards of asphalt milling (edge mill), 2,785 sy of asphalt removal (Trench line), approximately 850 ton class 6 aggregate base course, and approximately 1,000 ton hot mix asphalt. 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](mailto:duaneh@gjcity.org)

- 1.2. Mandatory Pre-Bid Meeting:** **Prospective bidders are required to attend a mandatory pre-bid meeting on July 18, 2017 at 10:00am.** Meeting location shall be in the City Hall Auditorium, located at 250 N. 5<sup>th</sup> 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.rockymountainbidssystem.com/default.asp>).** *This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our "Electronic Vendor Registration Guide" at <http://www.gjcity.org/business-and-economic-development/bids/> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)
- 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/business-and-economic-development/bids/> .
- 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](http://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/business-and-economic-development/bids/> . 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 **\$750.00** 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 its 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. GENERAL:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required to perform the 28 ½ Road Sewer and Water Line Replacement and Overlay Project. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

NOTE: The descriptions of the pay items listed in the Price Bid Schedule for this Project may not agree with those listed in the Standard Specifications. Payment for all Work performed, as required in the Contract Documents, will be in accordance with the items and units listed in the Price Bid Schedule.

The performance of the Work for this Project shall conform to the General Contract conditions presented in the City of Grand Junction's Standard Contract Documents for Capital Improvements Construction, revised July 2010, except as specifically modified or supplemented herein or on the Construction Drawings.



**3.2. PROJECT DESCRIPTION:** The project generally consists of the installation of 70 lf of 6" waterline, 1,800 lf of 8" waterline, 535 lf of 4" sanitary sewer service line, 1200 lf of 8" sanitary sewer mainline, 950 lf of 10" sanitary sewer mainline, 165 lf 8" storm drain pipe, 110 lf ¾" water service line, 8 sanitary sewer manholes, 2 storm drain inlets: approximately 3,250 sy yards of asphalt milling (edge mill), 2,785 sy of asphalt removal (Trench line), approximately 850 ton class 6 aggregate base course, and approximately 1,000 ton hot mix asphalt.

**3.3. SPECIAL CONDITIONS & PROVISIONS:**

**3.3.1 Mandatory Pre-Bid Meeting:** Prospective bidders are required to attend a mandatory pre-bid meeting on July 18, 2017 at 10:00am. Meeting location shall be in the City Hall Auditorium, located at 250 N. 5<sup>th</sup> 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](mailto:duaneh@gjcity.org)

**3.3.3 Project Manager:** The Project Manager for the Project is Jerod Timothy, who can be reached at (970)244-1565. 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: Jerod Timothy, Project Manager  
250 North Fifth Street  
Grand Junction, CO 81501

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

**3.3.5 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.

**3.3.6 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.

**3.3.7 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.

**3.3.8 Time of Completion:** The scheduled time of Completion for the Project is 68 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.

**3.3.9 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 Monday – Friday, between the hours of 7:00 AM to 5:00 PM.

**3.3.10 Licenses and Permits:** Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractor's expense. See Section 2.12. Contractor shall supply to Owner all copies of finalized permits.

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

CDOT – Special Use Permit

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

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

None

**3.3.13 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 will be responsible for notifying all businesses and / or residents located adjacent to the work. Door hanger notifications shall be distributed at least two (2) working days prior to the day the work is scheduled to begin.

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

**3.3.15 Authorized Representatives of the City:** Those authorized to represent the City shall include Purchasing Agent, Engineers, and Inspectors employed by the City, only.

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

**3.3.17 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.

Section 630 of the Standard Specifications are hereby revised for this project as follows:

Subsection 630.14, Method of Measurement, shall include the following:  
Distribution of door-hanger notices to all businesses and / or residents located adjacent to the overlay work will not be paid for separately but shall be included in the pay item for Traffic Control (Complete in Place). The City will provide the door hangers for distribution.

**3.3.18 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.

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

- Traffic Control Plans
- Project Schedule
- Asphalt Mix Design

- Concrete Mix Design
- Class 6 Base Course Gradation, Proctor Curve
- ACI Flatwork Finisher Technician Certification
- Pipe and Appurtenances
- Hourly rate tables for Labor and Equipment to be used on this project
- Asphalt Mix Design for SX mix.

**3.3.20 Uranium Mill Tailings:** It is anticipated that radioactive mill tailings will 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. **All millings** generated from this project shall be delivered to City Shops, Riverside Yard, and become the property of the City of Grand Junction. Cost for delivery of the millings shall be include in the price for milling. The contractor may coordinate with the City Streets division for consolidating of the millings pile or may provide equipment and an operator for consolidation.

**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 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.

**3.3.25 Work to be Performed by the City (Prior to Construction):**  
N/A

**3.3.26 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.

**3.3.27 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.

**3.3.28 Quality Control Testing:** Supplier shall perform quality control testing on the Asphalt. The Contractor shall provide quality control throughout the Contract, with the use of his/her own Quality Control Technicians or the use of a certified laboratory. In accordance with Section 401.06.3 of the City of Grand Junction Standard Specifications for Road and Bridge Construction, results of all quality control tests shall be submitted to the City's Quality Assurance Technician within 4 hours of the time of sampling. Failure to do so may require that paving be suspended until all sampling results have been received, reviewed, and approved. The Contractor shall supply a QC Lab personnel for night work for comparison of test data. If lab personnel is not supplied paving operations will be suspended until one is available. QC Field personnel shall remain on site during the duration of the paving operation or until in-place density are met.

**3.3.29 Special Equipment:** The paver shall be equipped with a 40' ski on any street segment longer than 600 lineal feet of continuous pavement. Unless otherwise approved by the Engineer or his representative. Auger extensions shall be used when the screed is extended to a width greater than two feet beyond the auger. The auger extensions shall be installed to ensure a constant head of material.

**Asphalt Material Transfer Vehicle:** The contractor shall use a materials transfer vehicle in conjunction with belly dump to reduce irregularities in the paving.

**3.3.30 Asphalt Paper Joints:** The Contractor shall install asphalt paper joints at all locations where milling the roadway creates a vertical edge greater than 1" in height in the direction of travel. The paper joints shall be installed immediately following milling operations. The asphalt used in the paper joint shall be removed prior to placing the overlay. The cost of the paper joints shall be included in the unit price for the asphalt items and will not be measured or paid for separately.

**3.3.31 Tack Coat:** Tack Coat will be required between the existing asphalt and the leveling asphalt, existing asphalt and new overlay, and between leveling asphalt and new overlay asphalt. The tack coat shall meet the requirements of Section 407 of the *Standard Specifications for Road and Bridge Construction*. The cost of the tack coat will be considered incidental to the work and will not be paid for separately.

**3.3.32 Painted Lane Lines:** The Contractor shall be responsible for recording the location of all existing striping, and shall place longitudinal paving joints on or immediately adjacent to said striping.

**3.3.33 Temporary Pavement Marking Tape:** The Contractor shall be responsible for

furnishing and placing temporary pavement marking tape in the event that existing stripes were removed during milling operation. The Contractor shall be responsible for furnishing and placing temporary pavement marking tape prior to the final roller pass. Pavement marking tape shall be placed on the seams of the new asphalt as determined by the record of existing striping. The cost of the marking tape and labor to install will be considered incidental to the work and will not be paid for separately.

**3.3.34 Transverse Milling:** Butt joints (Transverse Milling) shall be placed in all locations where new asphalt will be joined to existing pavement. The location and width of all butt joints will be designated by the Project Engineer or his representative.

**3.3.35 Pavement Cross Slope:** Each paving machine shall be equipped with a 4' carpenter's level. On those occasions when the paving foreman determines that an existing street has little or no cross slope, the Contractor shall advise the Engineer of his observations rather than overlaying the street as is. The Engineer or his representative will then determine how best to correct the inadequate cross slope.

**3.3.36 Payment for Hot Mix Asphalt:** The Contractor is reminded that Section 401.07.1 of the City of Grand Junction Standard Specifications for Road and Bridge Construction will be used to determine Pay Factors for calculating the basis of payment for Hot Bituminous Pavement.

**3.3.37 Manholes and Water Valves:** It shall be the contractors' responsibility to accurately record and adjust all manholes, valve boxes and survey monuments final grade.

In the event that a utility is paved over it shall be the contractors' responsibility to expose and adjust to final grade within 2 days. In all other cases utilities shall be raised to final grade within 7 days after completion of paving street segment, and shall be the contractors' responsibility to expose the affected utility during the event of an emergency.

**3.3.38 Reset Structure:** Section 210 of the Standard Specifications is hereby revised for this project as follows:

Section 210.10, Adjust Structure, shall include the following:

(1) The following shall apply to adjusting manhole rings in traveled through lanes:

(a) Manholes shall be paved over during the overlay. Sand or paper will be used to prevent the asphalt from adhering to the manhole cover. After paving, the manhole ring shall be adjusted to grade by the use of concrete grade rings. The cut area around the manhole shall then be patched with Grading-SX, Hot mix Asphalt to the same thickness as the

adjacent pavement. When adjusting the manhole ring to match the cross slope of the street, the Contractor shall fill the space between the concrete grade ring and the cast iron ring with Rapid Road Repair or Engineer approved equal. In the event that grade rings are removed and or replaced as part of the adjustment the contractor shall fill the annular area below the uppermost grade ring with a self-consolidating media such as 3/4" washed rock or completely fill the area with Rapid Road Repair or Engineer approved equal.

- (b) Manhole adjustment tolerance: all manholes adjusted as part of this project shall meet the following criteria: level with the adjacent asphalt or (-)1/8". Manholes set outside of this tolerance will be rejected.
- (2) Valve boxes can be adjusted by the use of cast iron valve box extensions or by digging the valve box out after paving and raising the existing box. After adjusting the height of the valve box, the area around the valve box shall be filled with Grading-SX, Hot Mix Asphalt to the same thickness as the adjacent pavement. Water valve tolerance will be the same as section 1 b with the exception of (-) 1/4"

### **3.3.39 Pavement Marking:**

Section 627 of the Standard Specifications are hereby revised for this project as follows:

The City of Grand Junction will apply all of the long line striping pavement markings for this project with the exception of the preformed thermoplastic pavement markings. The contractor shall meet with the City of Grand Junction's Transportation Engineering Division for approval of layout prior to placement of any pavement markings. See appendix for tabulation quantities in concrete areas.

### **3.3.40 Materials:** In the event that excavation of the manholes grade rings are disturbed or removed and replaced due to damage the Contractor is instructed to follow these guidelines:

The annular area beneath the bottom of the uppermost grade ring shall either be filled with a self-consolidating material, i.e. 3/4" screened rock or engineer approved equal or shall be completely filled with Quikrete's Rapid Road Repair or Engineer approved equal. No other means will be considered.

### **3.3.41 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.

**3.3.42 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.

**3.3.43 By-Pass Pumping:** The proposed lines scoped for this project have flows that generally a 6" pump can handle. By-pass pumping shall be considered incidental and included in the cost of new sewer installation.

### **3.4. SCOPE OF WORK:**

#### **STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION:**

The *City of Grand Junction Standard Specifications for Road and Bridge Construction* are hereby modified or supplemented for this Project by the following modifications to *The Standard Specifications for Road and Bridge Construction*, State Department of Highways, Division of Highways, State of Colorado:

#### **SP- 1 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.

**SP – 2 SECTION 104 – INSTALLATION OF PIPE AND APPUTENNCES:**

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

### **SP-3 SECTION 208 – EROSION CONTROL**

For inlet protection along Major Arterial or Collector Street sections the only approved inlet protections shall be a filter sock.

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

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

### **SP- 4 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

## **SP-5 SECTION 608 – CURBS, GUTTERS, SIDEWALKS, AND TRAILS**

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

Subsections 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 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; reinforcing steel and joint filler.

## **SP - 6 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	Each

### **3.5. Attachments:**

Appendix A: Project Submittal Form  
Appendix B: Construction Drawings

**3.6. Contractor Bid Documents:** For Contractor's convenience, the following is a list of forms/items to be submitted with the Contractor's bid response. However, should a form/item not be listed in this section, but required in the solicitation documents, it is the Contractor's responsibility to ensure all forms/items are submitted.

- **Contractor's Bid Form**
- **Price Bid Schedule**
- **Sub-Contractors Form**

### **3.7. IFB TENTATIVE TIME SCHEDULE:**

Invitation For Bids available	July 7, 2017
Mandatory Pre-Bid Meeting	July 18, 2017
Inquiry deadline, no questions after this date	July 21, 2017
Addendum Posted	July 24, 2017
Submittal deadline for proposals	July 27, 2017
City Council Approval	August 16, 2017

Notice of Award & Contract execution  
Bonding & Insurance Cert due  
Preconstruction meeting  
Work begins no later than  
Final Completion  
Holidays:

August 17, 2017  
August 23, 2017  
August 23, 2017  
August 28, 2017  
November 3, 2017  
September 4, 2017

## 4. Contractor's Bid Form

**Bid Date:** \_\_\_\_\_

**Project:** IFB-4399-17-DH "28 ½ Road Sewer and Water Line Replacement and Overlay"

**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.

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

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

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 &amp; 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: 28 1/2 Road Sewer and Water Line Replacements and Overlay

Contractor: \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.4	Cap top half of sewer in concrete per std detail GU-04	16.	EA	\$ _____	\$ _____
2	108.2	Water Main (6") (C-900 PVC, DR-18) (Includes cost of connection to existing pipe)	70.	LF	\$ _____	\$ _____
3	108.2	Water Main (8") (C-900 PVC, DR-18) (Includes cost of connection to existing pipe)	1,800.	LF	\$ _____	\$ _____
4	108.2	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.	535.	LF	\$ _____	\$ _____
5	108.2	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.	1,200.	LF	\$ _____	\$ _____
6	108.2	102.9/108.2 - 10" 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.	950.	LF	\$ _____	\$ _____
7	108.2	8" Storm Drain Pipe (PVC)	165.	LF	\$ _____	\$ _____
8	108.3	Gate Valve (6")	4.	EA	\$ _____	\$ _____
9	108.3	Gate Valve (8")	5.	EA	\$ _____	\$ _____
10	108.3	Tee (8" x 6")	4.	EA	\$ _____	\$ _____
11	108.3	Tee (8" x 8")	3.	EA	\$ _____	\$ _____
12	108.3	Elbow (6" x 45deg)	3.	EA	\$ _____	\$ _____
13	108.3	Elbow (8" x 45deg)	5.	EA	\$ _____	\$ _____
14	108.3	End Cap/Plug	5.	EA	\$ _____	\$ _____
15	108.3	Reducer (8" x 6")	4.	EA	\$ _____	\$ _____
16	108.3	Fire Hydrant	3.	EA	\$ _____	\$ _____
17	108.3	4" Sewer Service Tap (Full Body Wye w/ Street 45°)	30.	EA	\$ _____	\$ _____
18	108.4	3/4" Tapping Saddle	22.	EA	\$ _____	\$ _____
19	108.4	3/4" Corporation Stop	22.	EA	\$ _____	\$ _____



20	108.4	3/4" Water Service Line (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	110.	LF	\$ _____	\$ _____
21	108.4	1" Tapping Saddle	1.	EA	\$ _____	\$ _____
22	108.4	1" Corporation Stop	1.	EA	\$ _____	\$ _____
23	108.4	1" Water Service Line (Type KCopper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	10.	LF	\$ _____	\$ _____
24	108.5	48" Sanitary Sewer MH (Drop)	1.	EA	\$ _____	\$ _____
25	108.5	48" Sanitary Sewer MH	7.	EA	\$ _____	\$ _____
26	108.5	48" Sanitary Sewer MH Barrel Section	20.	LF	\$ _____	\$ _____
27	108.5	Connect to Existing Manhole (storm)	1.	EA	\$ _____	\$ _____
28	108.6	Single Storm Drain Inlet (large area Inlet)	2.	EA	\$ _____	\$ _____
29	202	Uranium Mill Tailings Removal	130.	CY	\$ _____	\$ _____
30	202	Removal of Asphalt Mat (Edge Mill) (1" to 2")	600.	SY	\$ _____	\$ _____
31	202	Removal of Asphalt Mat (Edge Mill) (0" to 2")	850.	SY	\$ _____	\$ _____
32	202	Removal of Asphalt Mat (Edge Mill) (0" to 1")	1,800.	SY	\$ _____	\$ _____
33	202	Removal of Asphalt Mat (Full Depth)	2,785.	SY	\$ _____	\$ _____
34	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-pans curb ramps, intersection corners, aprons, and underlying street concrete)	20.	SY	\$ _____	\$ _____
35	202	Removal of Water Valve	2.	EA	\$ _____	\$ _____
36	202	Abandon Water Valve	5.	EA	\$ _____	\$ _____
37	202	Removal of Pipe (12" and smaller)	2,770.	LF	\$ _____	\$ _____
38	202	Removal of Manhole	8.	EA	\$ _____	\$ _____
39	203	Potholing	40.	HR	\$ _____	\$ _____

40	213	WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.	7.	CY	\$ _____	\$ _____
41	304	Subgrade Stabilization (Class 3 Aggregate Base Course	152.	Tons	\$ _____	\$ _____
42	304	Aggregate Base Course (Class 6)(8" thick )(Water Trench (663))	320.	SY	\$ _____	\$ _____
43	304	Aggregate Base Course (Class 6)(8" thick )(San Sew Trench (663))	1,520.	SY	\$ _____	\$ _____
44	304	Engineer Approved Temporary Patch Cost shall be incidental to the cost of the water/sewer line. Contractor shall maintain patch during water/sewer line installation. During paving operations trench will be paved over as part of the overlay operations.	1,060.	SY	\$ _____	\$ _____
45	401	Hot Mix Asphalt (2" Thick) (Grading SX-75)(Binder 64-22)(Overlay entire width 28.5 Road)	900.	Tons	\$ _____	\$ _____
46	401	Hot Mix Asphalt (1" Thick) (Grading SX-75)(Binder 64-22)(Bottom mat in widening areas only to include subgrade prep.)	50.	Tons	\$ _____	\$ _____
47	401	Hot Mix Asphalt (3" Thick) (Grading SX-75)(Water Trench (681))	330.	SY	\$ _____	\$ _____
48	401	Hot Mix Asphalt (3" Thick) (Grading SX-75)(San Sew Trench (681))	1,515.	SY	\$ _____	\$ _____
49	608	Concrete Drainage Pan	6.	LF	\$ _____	\$ _____
50	608	Monolithic Curb Gutter and Sidewalk (6' Wide)	12.	SY	\$ _____	\$ _____
51	608	Concrete Driveway (8" Thick)	4.	SY	\$ _____	\$ _____
52	620	Sanitary Facility	1.	lump	\$ _____	\$ _____
53	625	Construction Surveying Complete in Place	1.	lump	\$ _____	\$ _____
54	626	Mobilization	1.	lump	\$ _____	\$ _____
55	629	Reference and Reset Survey Monuments	1.	EA	\$ _____	\$ _____
56	630	Traffic Control Plan	1.	lump	\$ _____	\$ _____
57	630	Traffic Control (Complete In Place)	1.	lump	\$ _____	\$ _____
58	SP - 1	Striping (Per Plan)	1.	lump	\$ _____	\$ _____

MCR

Minor Contract Revisions

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\$ 37,000.00

**Bid  
Amount:**

\$ \_\_\_\_\_

**Bid Amount:**

\_\_\_\_\_ dollars

**APPENDIX A**

**PROJECT SUBMITTAL FORM**

## PROJECT SUBMITTAL FORM

PROJECT: **28 ½ Road Sewer and Water Line Replacement**

CONTRACTOR: \_\_\_\_\_

PROJECT MANAGER: **Jerod Timothy, Project Manager**

Description	Date Received	Resubmittal Requested	Resubmittal Received	Date Accepted
-------------	---------------	-----------------------	----------------------	---------------

### SEWER CONSTRUCTION

4", 8", and 10"				
Sewer Service Tap (Full Body Wye)				
48" Sanitary Sewer MH				
48" Sanitary Sewer MH (Drop)				

### WATER CONSTRUCTION

6" and 8"				
¾" and 1" Type K				
Gate valve, tee, elbow and reducer.				
Tapping saddle and corp stop				

### STORM CONSTRUCTION

8" PVC				
Single Storm Drain Inlet				

### STREET CONSTRUCTION

Description	Date Received	Resubmittal Requested	Resubmittal Received	Date Accepted
Subgrade Stabilization (Class 3)				
Subgrade Stabilization (Class 6)				
HMA				
Concrete Mix Design, Class D				

**EROSION CONTROL / STORMWATER MANAGEMENT**

Best Management Plan (Inlet Protection & Concrete Washout Facility)				
---	--	--	--	--

**PERMITS, PLANS, OTHER**

Traffic Control Plans				
PWWTP Discharge Permits Appendix E				
Bypass Pumping Plan				
Construction Schedule				
ACI Flatwork Finisher and Technician				

# 28 1/2 ROAD - SEWER LINE REPLACEMENT WATER LINE REPLACEMENT AND PAVING PLAN June, 2017

- 1 Cover Sheet
- 2 Standard Abbreviations, Legend, And Symbols
- 3 Project Control Plan
- 4-9 Sanitary Sewer Plan and Profile
- 10-15 Water Line Plan and Profile
- 16 Storm Drain Plan and Profile
- 17-19 Typical Cross Sections
- 20-22 Roadway Milling Plan
- 23-27 Roadway Paving Plan and Profile
- 28-38 Roadway Cross Sections
- 39-41 Roadway Striping
- 42 Storm Water Management Plan

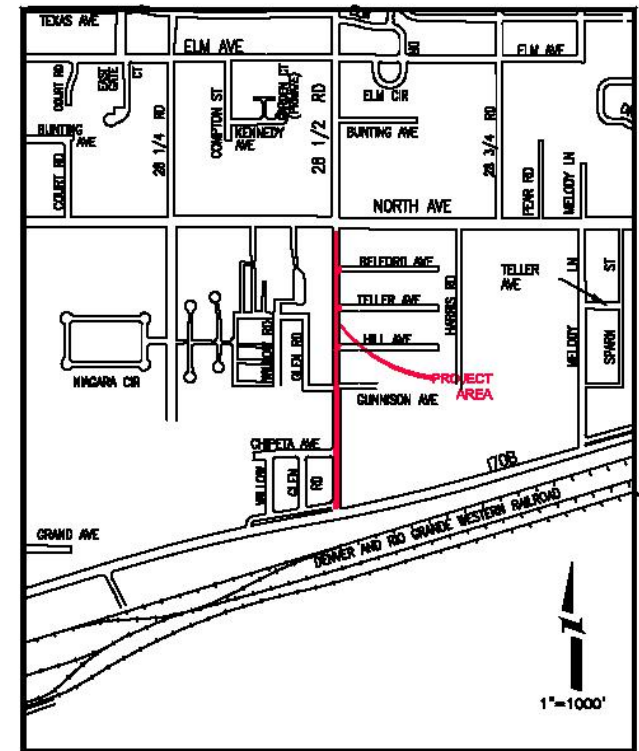


Know what's below.  
Call before you dig.

NOTICE: NOISEY 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.

### 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	230 N. 9th STREET	230 N. 9th STREET	GRAND JCT., CO 81501	(970) 241-1308	(970) 240-4082
GRAND JUNCTION, CITY OF	LEE COOPER	PROJECT ENGINEER	SAWITARY ENGINEER	230 N. 9th STREET	230 N. 9th STREET	GRAND JCT., CO 81501	(970) 236-4180	(970) 236-4282
GRAND VALLEY IRRIGATION CO.	PHIL BOITRANO		IRRIGATION	888 24 ROAD	888 24 ROAD	GRAND JCT., CO 81504	(970) 242-2782	
CHARTER	JOEY VALDEZ	MANAGER	CABLE TV	3002 FOREMONT CIRCLE	3002 FOREMONT CIRCLE	GRAND JCT., CO 81504	(970) 240-8700	(970) 240-8803
U.S. NEWS/OWENS	DAVID JOHNSON	ENGINEER	TELEPHONE	2024 BLUCHMANN AVE	2024 BLUCHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4348
LIFE WATER	JUSTIN BATER	SUPERVISOR	WATER	PO BOX 400		GRAND JCT., CO 81502	(970) 242-7401	(970) 242-8100
NEEL	BOE SERRANO	UNIT MANAGER	Gas, Electric	2330 BLUCHMANN AVE	2330 BLUCHMANN AVE	GRAND JCT., CO 81508	(970) 244-2308	(970) 244-2341



VICINITY MAP

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REVISION B		2017		
REVISION C		2017		
REVISION D		2017		

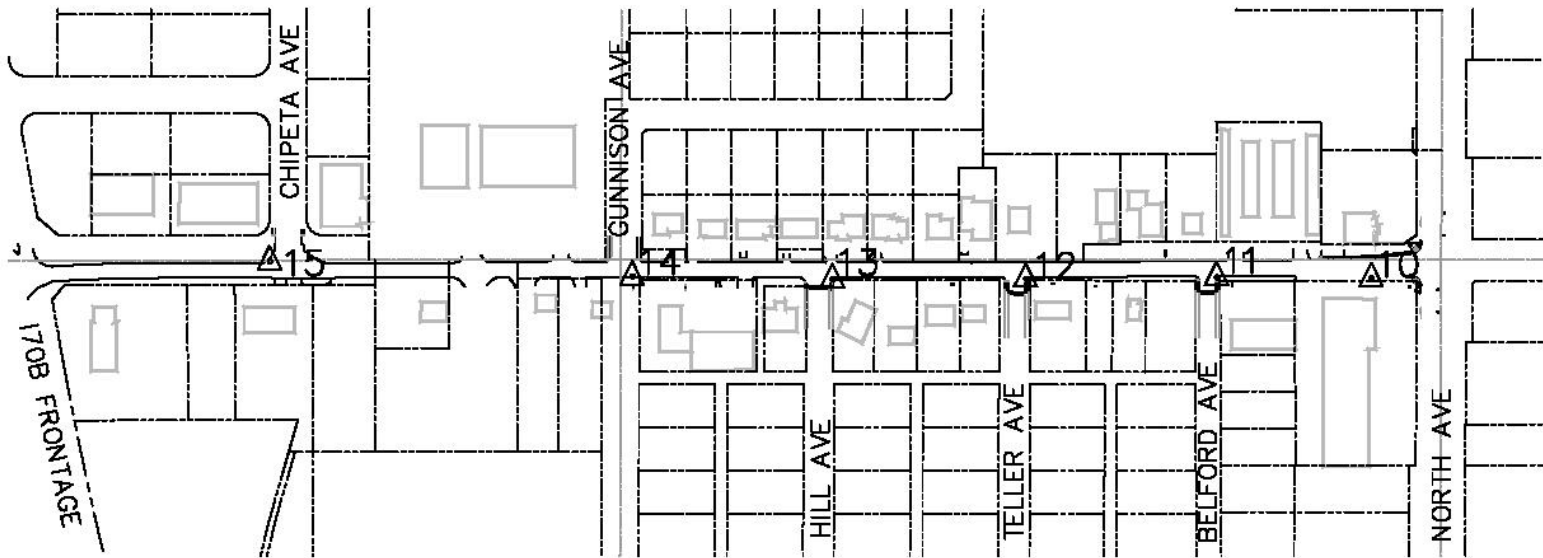


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ENGINEERING DIVISION

COVER SHEET







### CONTROL POINT DATA

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11	39088.756	102659.231	4625.971	SET PK NAIL
12	38781.758	102661.782	4623.145	SET PK NAIL
13	38471.073	102662.477	4621.364	SET PK NAIL
14	38148.669	102657.933	4620.775	SET PK NAIL
15	37565.533	102633.761	4615.653	SET PK NAIL

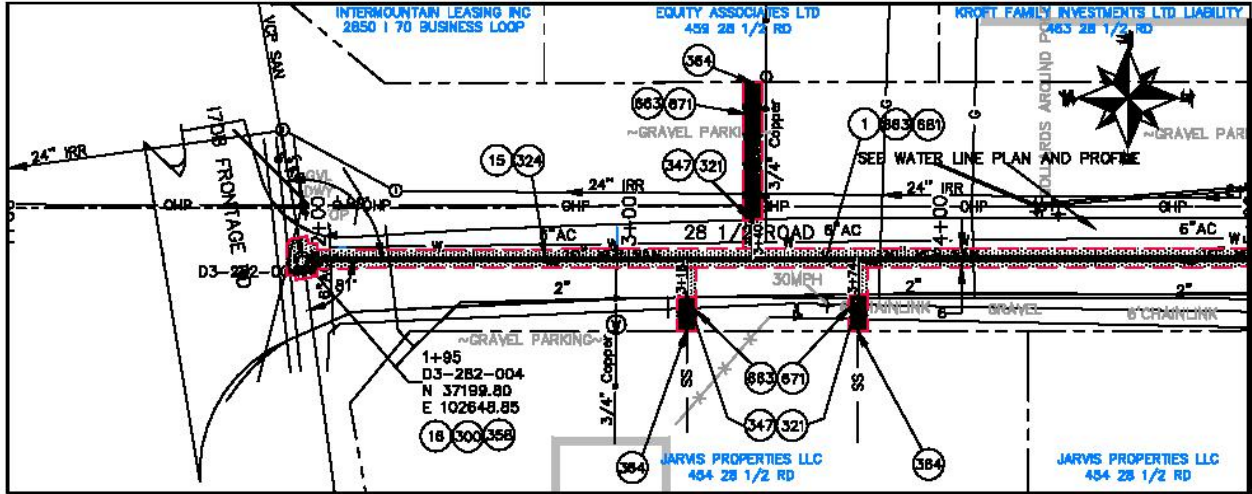
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REVISION C	2017	APPROVED BY	2017



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ENGINEERING DIVISION**

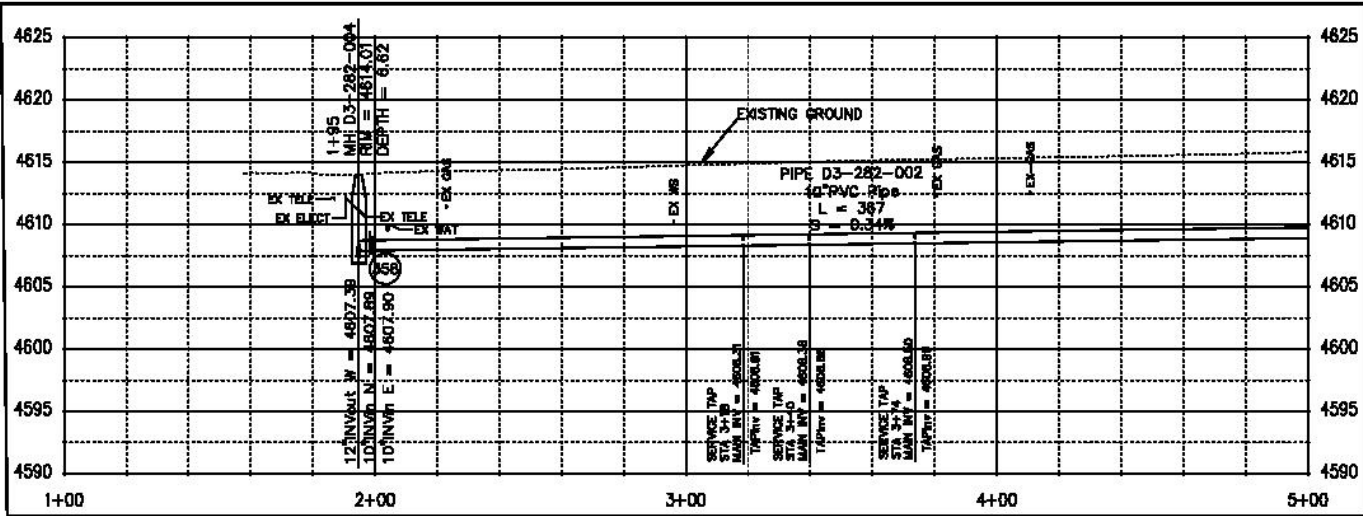
**28 1/2 Road  
Control Plan**



**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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" LD.). 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 103.18 EARTH BACKFILL MATERIAL.
- 324 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-08).
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

MATCH LINE STA 5+00



SEE PAVING PLANS FOR PAVING DATA



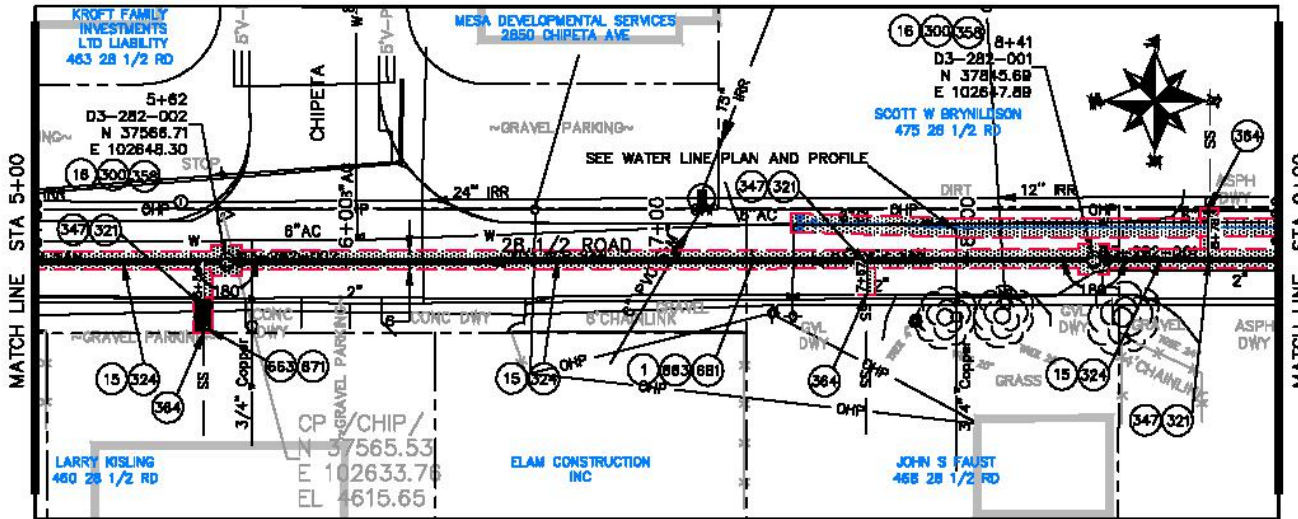
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REVISION C	ISSUE	2017	JES	JES	2017
REVISION D	ISSUE	2017	JES	JES	2017



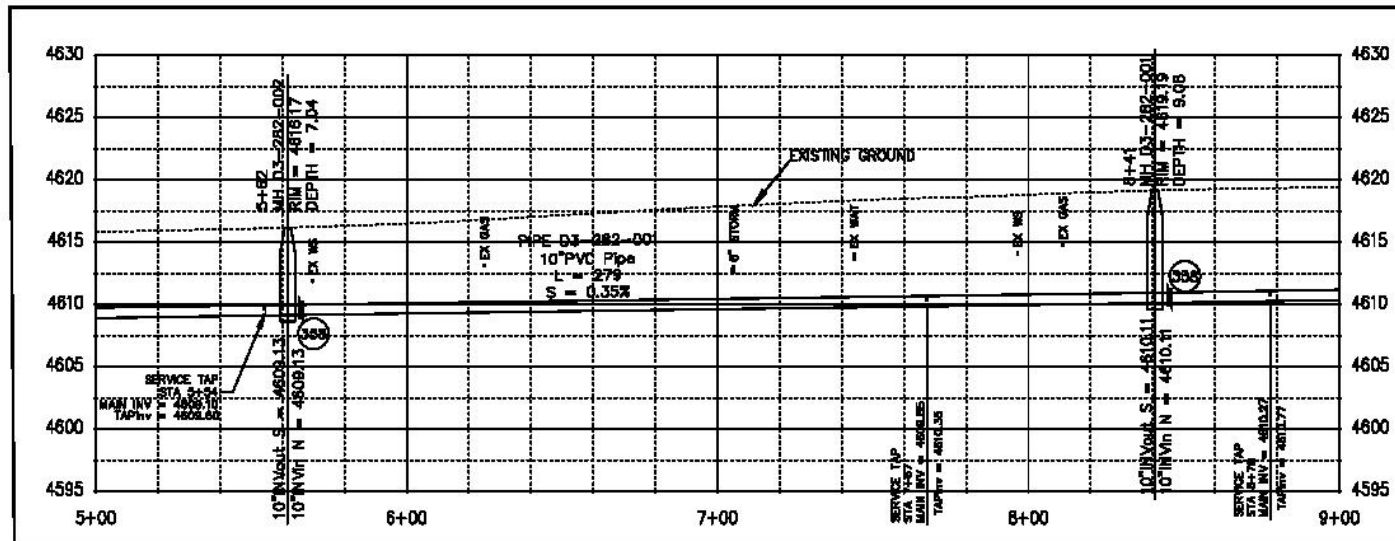
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**28 1/2 Road Sanitary Sewer  
from I70B to North Ave**

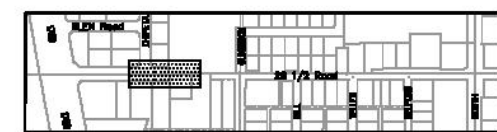


**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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 - 10" 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 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-08).
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS B) (8" THICK)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 881 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)



SEE PAVING PLANS FOR PAVING DATA



KEYMAP

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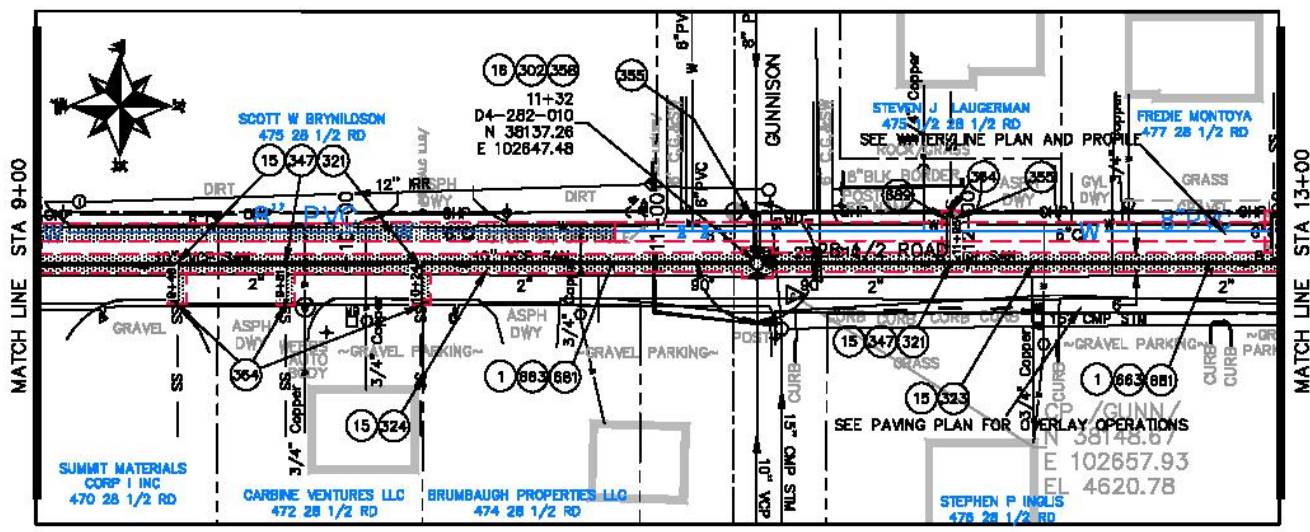
**Grand Junction**  
 COLORADO

**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**28 1/2 Road Sanitary Sewer**  
**from I70B to North Ave**

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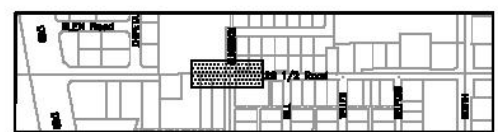
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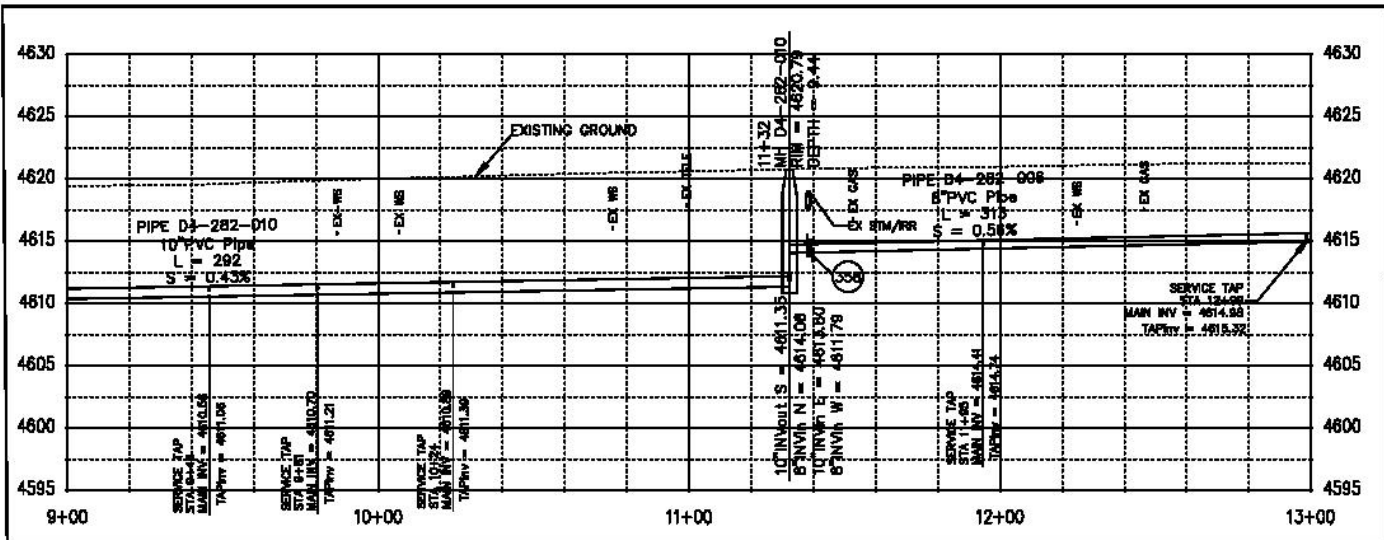
**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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).
- 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.
- 324 102.9/108.2 - 10" 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 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)

SEE PAVING PLANS FOR PAVING DATA



KEYMAP

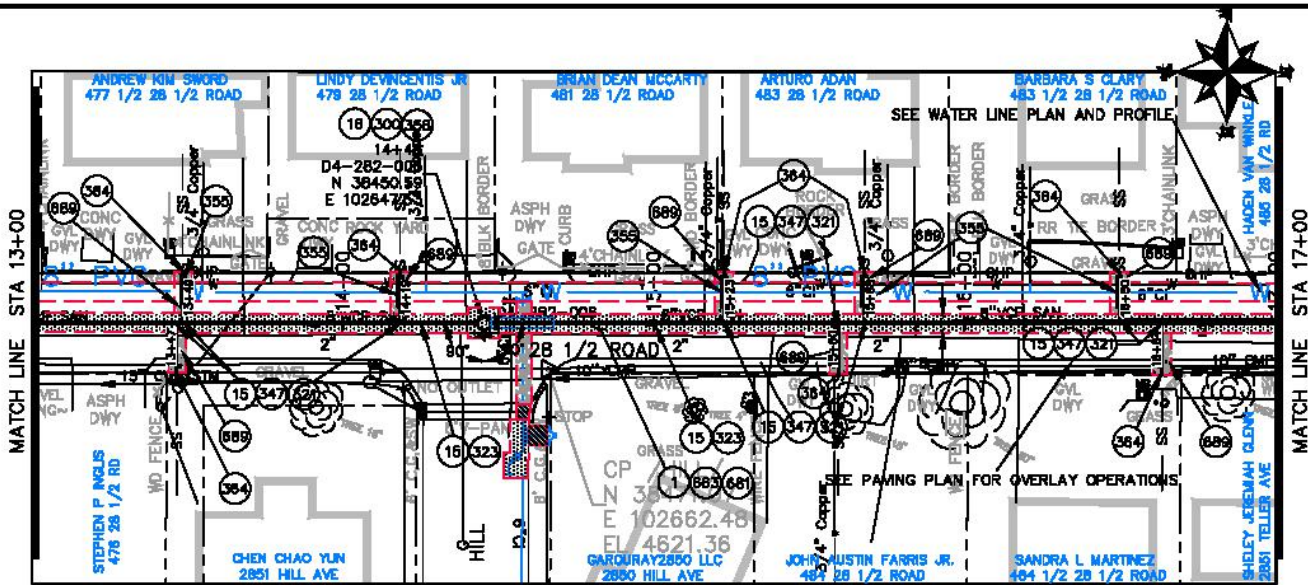


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**PUBLIC WORKS  
ENGINEERING DIVISION**

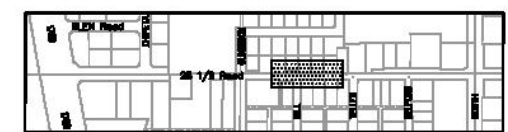
**28 1/2 Road Sanitary Sewer  
from I70B to North Ave**



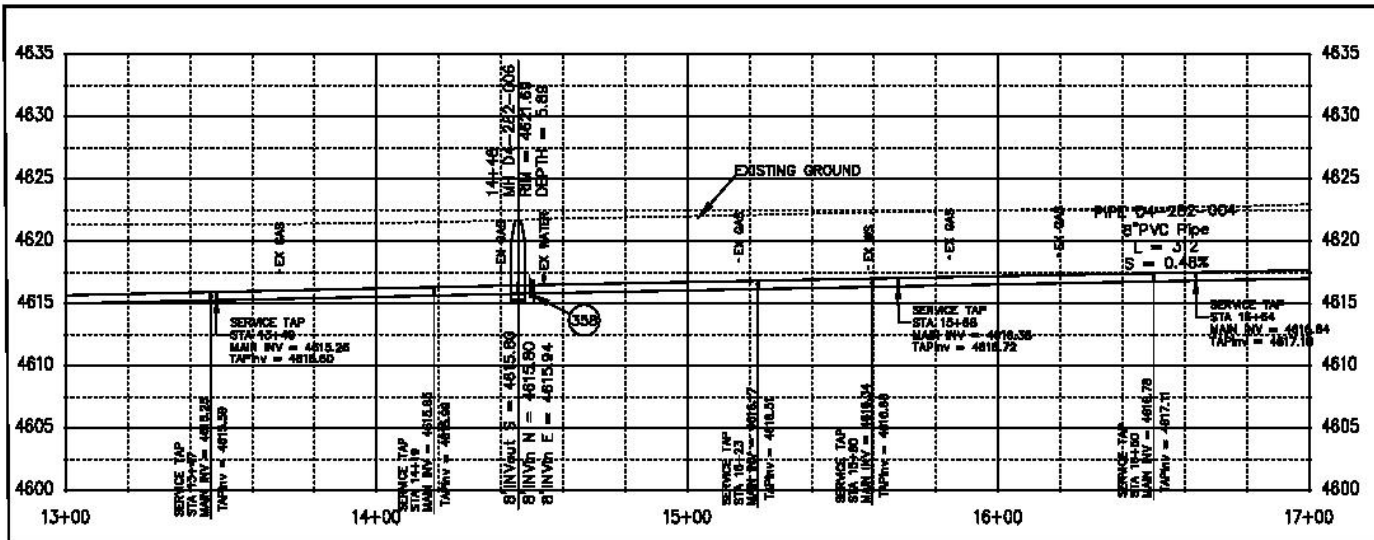
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- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
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- 323 102.9/108.2 - 8" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 680 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)

SEE PAVING PLANS FOR PAVING DATA



KEYMAP



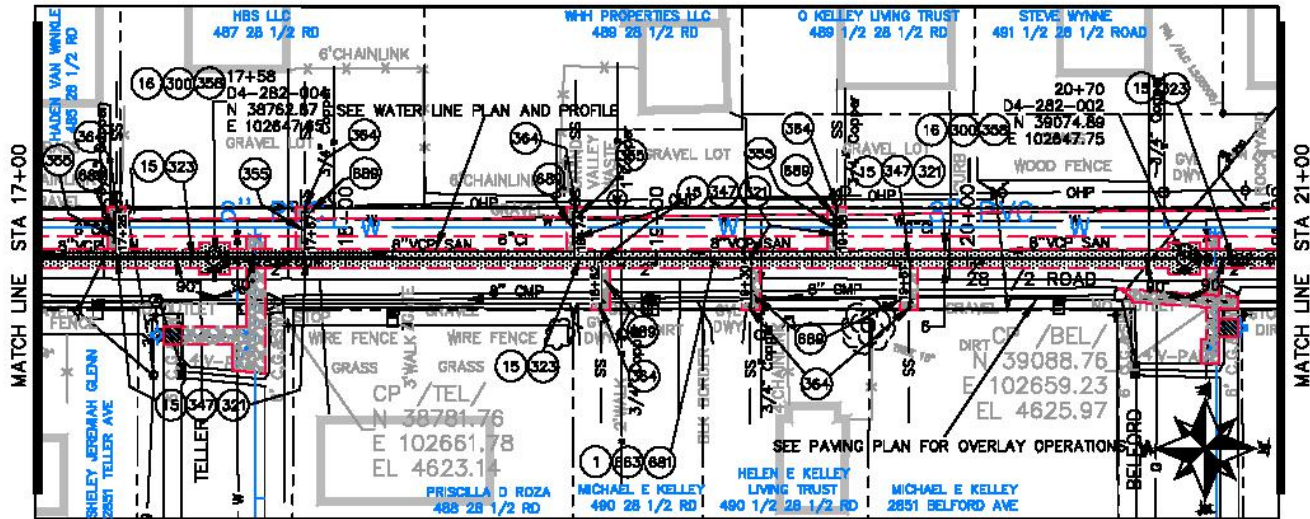
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**Grand Junction**
  
 COLORADO

**PUBLIC WORKS**
  
**ENGINEERING DIVISION**

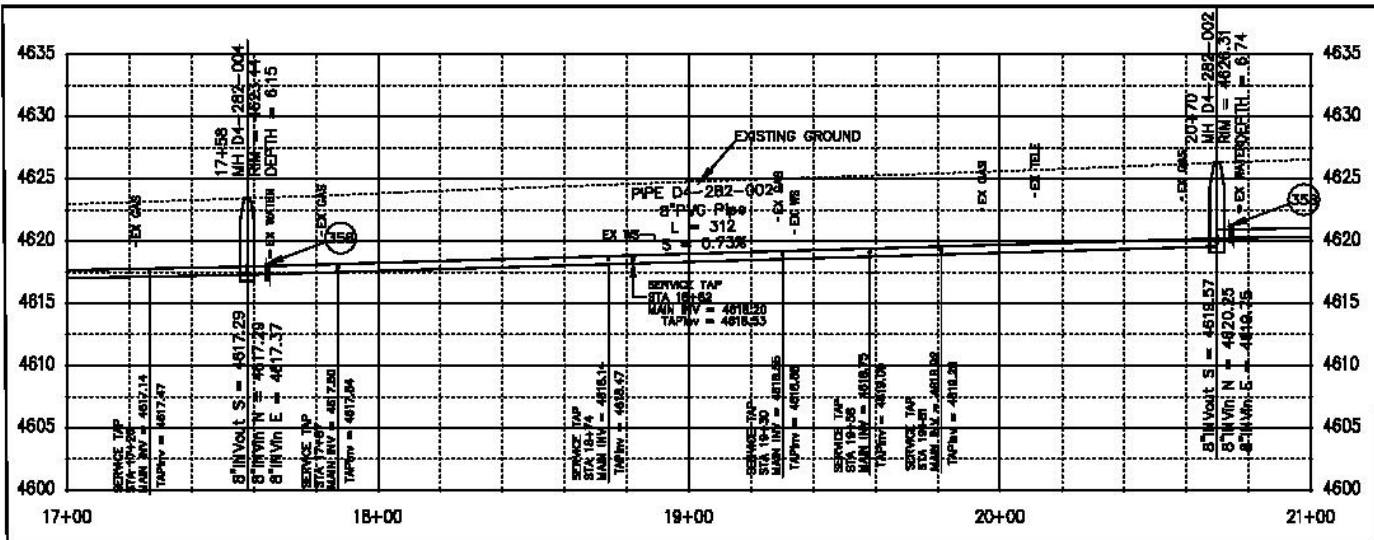
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**from I70B to North Ave**

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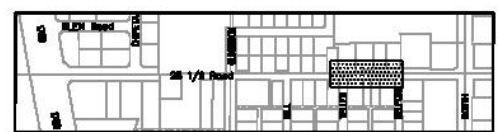


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- 323 102.9/108.2 - 6" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 384 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 661 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 669 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)



SEE PAVING PLANS FOR PAVING DATA



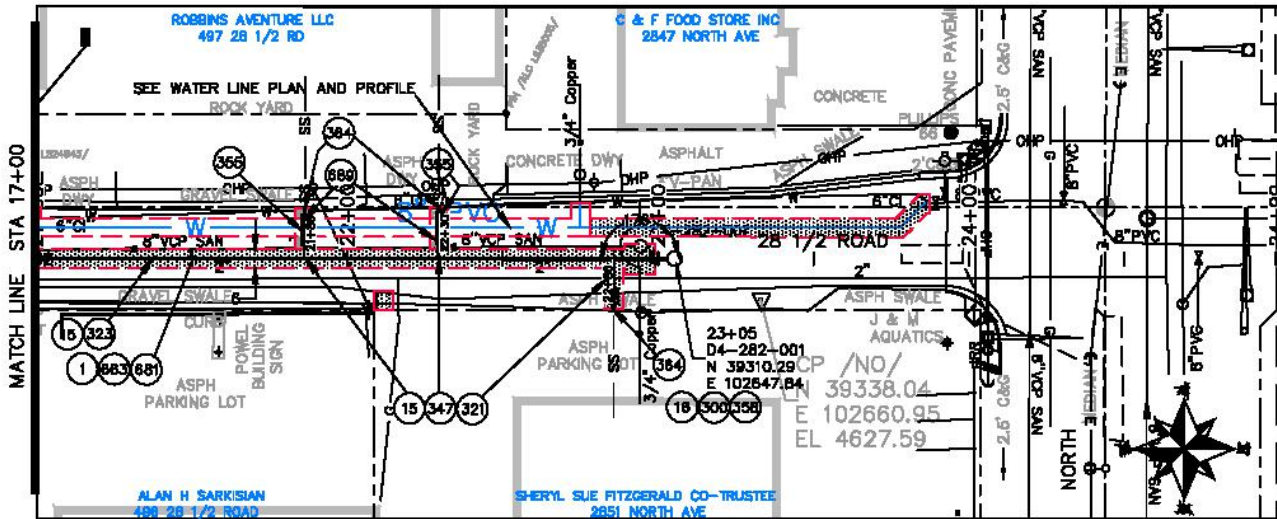
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**PUBLIC WORKS  
ENGINEERING DIVISION**

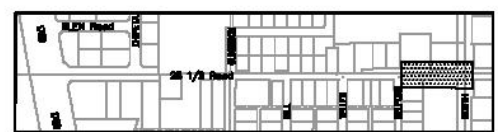
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from 170B to North Ave**



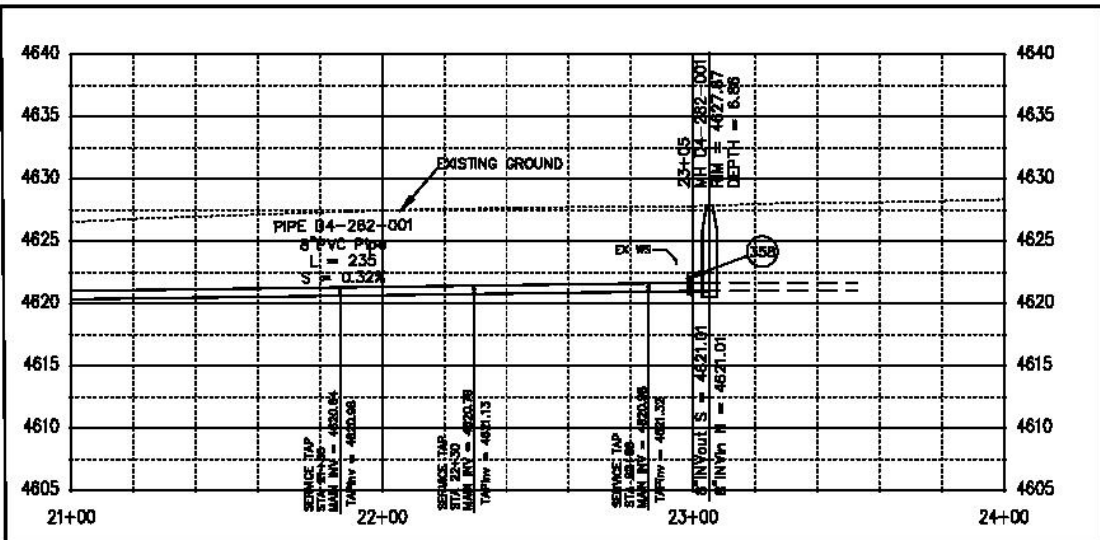
**CONSTRUCTION NOTES**

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- 15 202 - REMOVAL OF PIPE AS SHOWN. (SIZE AND TYPE AS SHOWN ON PLAN)
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- 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 103.18 EARTH BACKFILL MATERIAL.
- 323 102.9/108.2 - 5" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 84-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)

SEE PAVING PLANS FOR PAVING DATA



KEYMAP

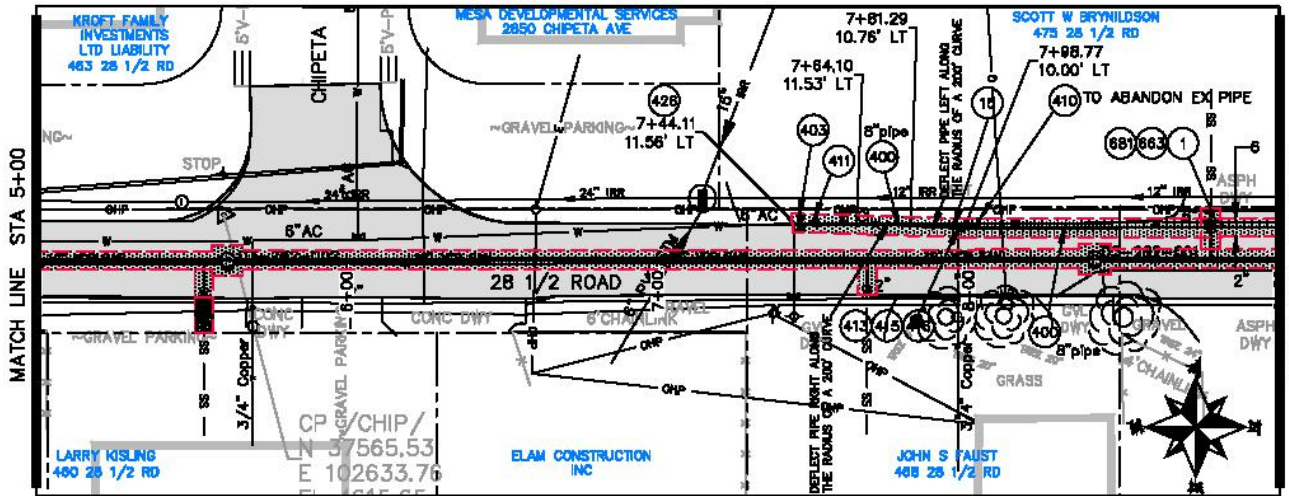


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REVISION C	ISSUE	2017	JES	JES	2017
REVISION D	ISSUE	2017	JES	JES	2017



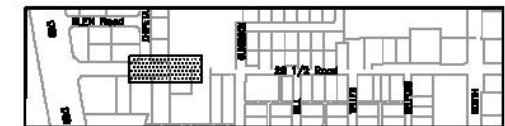
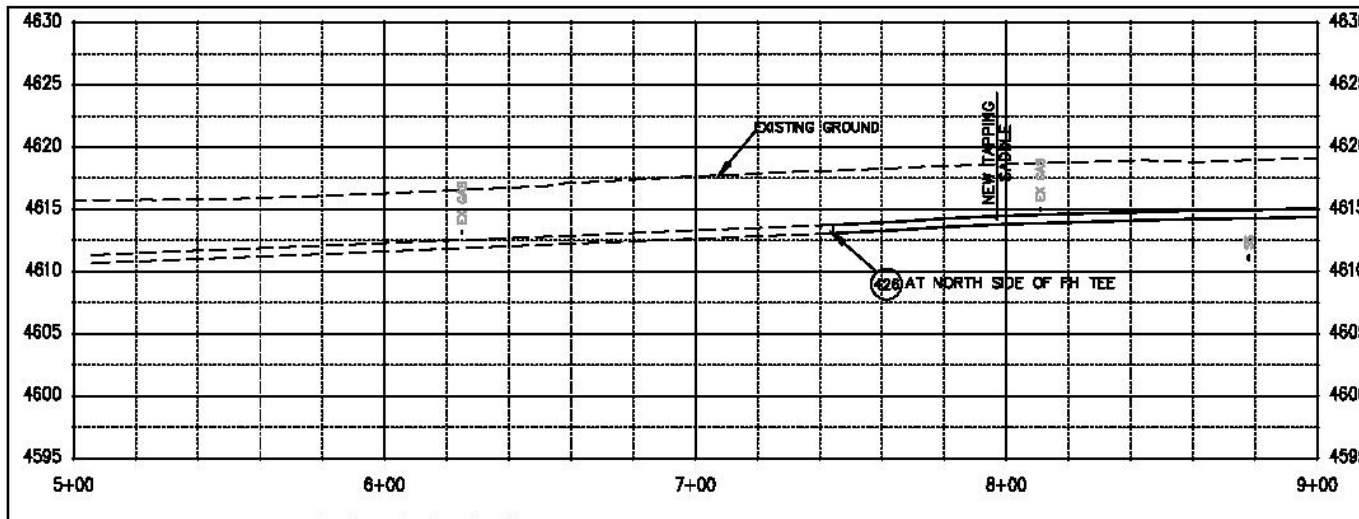
**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Sanitary Sewer  
from I70B to North Ave**



**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)
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
- 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 103.18 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 410 END CAP/PLUG (SIZE AS SHOWN)
- 411 102.8/108.3 - REDUCER (SIZE AS SHOWN)
- 412 102.8a/108.3 - FIRE HYDRANT
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 428 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 663 304 - AGGREGATE BASE COURSE (CLASS B) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)



KEYMAP

REVISION	DESCRIPTION	DATE	BY	CHECKED BY	DATE
REVISION A	ISSUE	2017	JES	JES	2017
REVISION B	ISSUE	2017	JES	JES	2017
REVISION C	ISSUE	2017	JES	JES	2017
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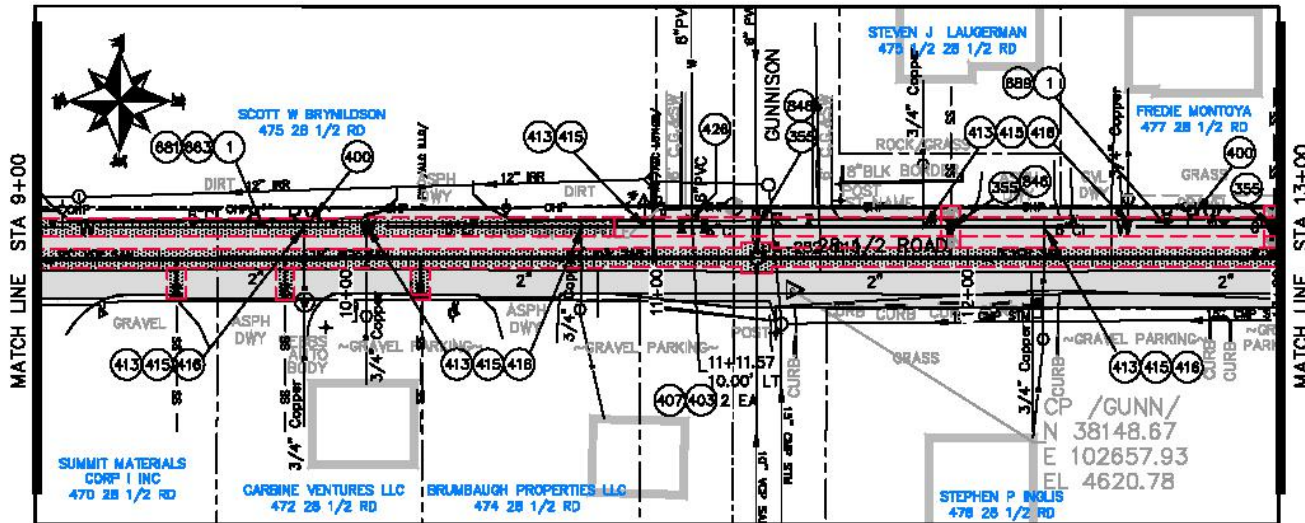
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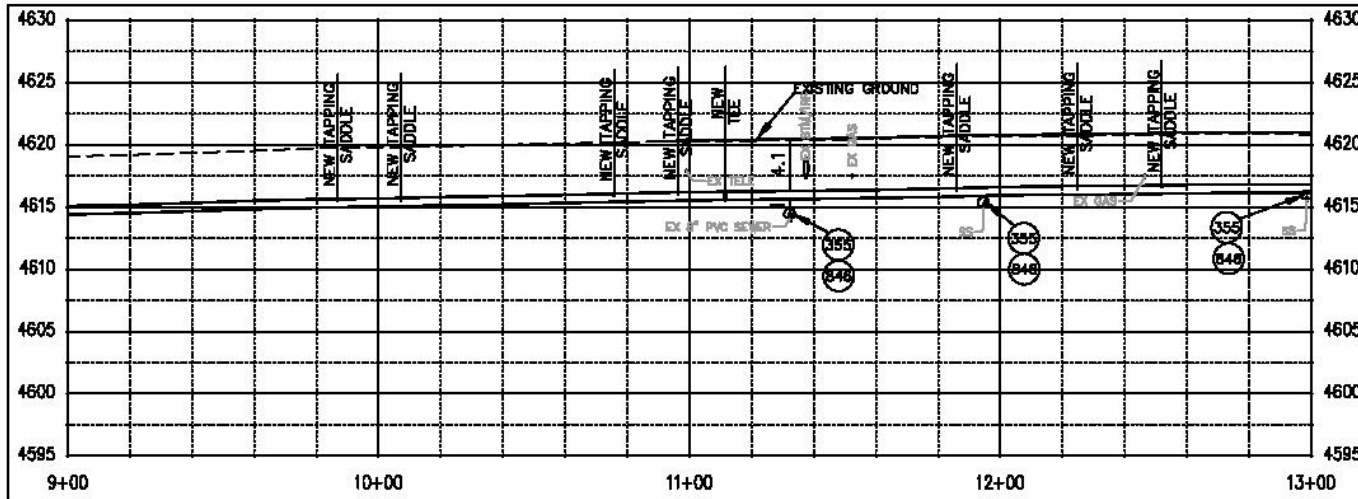
**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Water Line Plan  
from 170B to North and Hill, Teller, & Belford West**

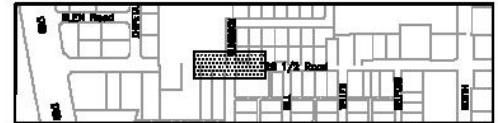




- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL CU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
  - 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). 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)
  - 407 102.8/108.3 - TEE (SIZE AS SHOWN)
  - 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
  - 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
  - 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
  - 428 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
  - 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 84-22) (TWO 1 1/2" LIFTS)
  - 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
  - 646 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.



SEE PAVING PLANS FOR PAVING DATA

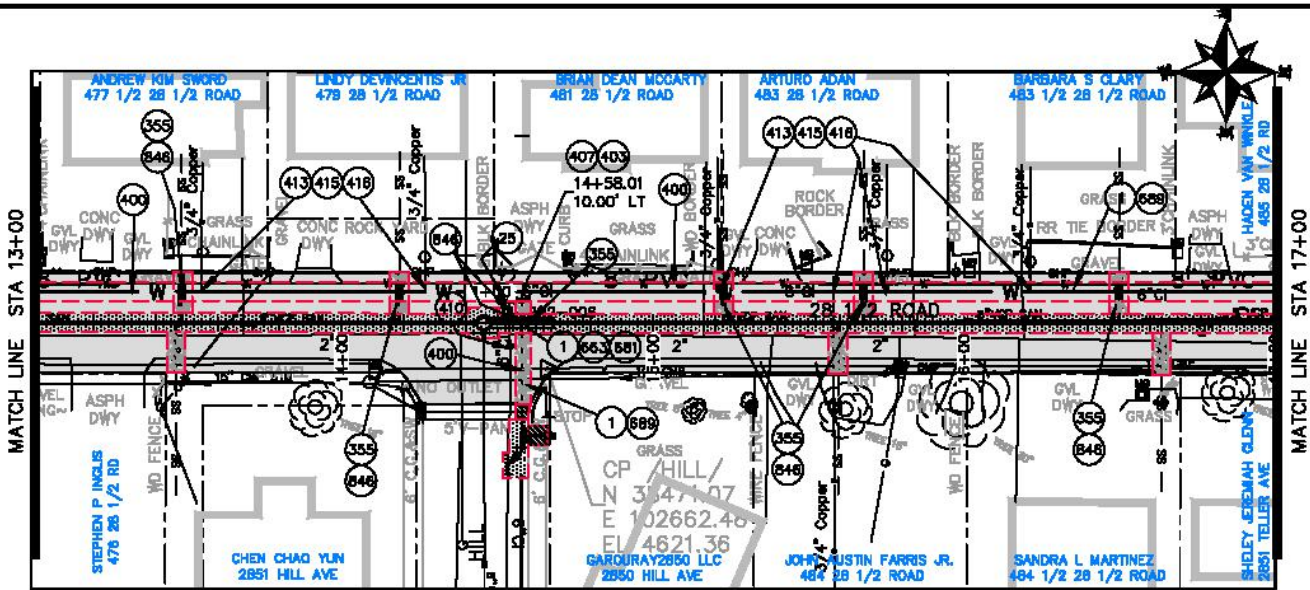


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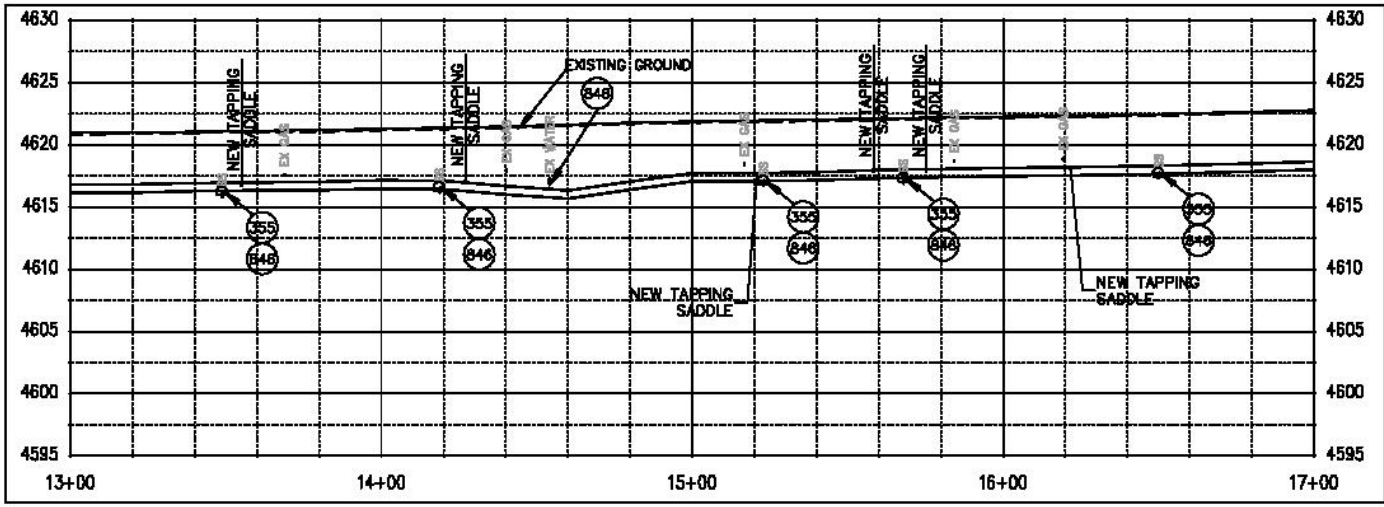
**PUBLIC WORKS ENGINEERING DIVISION**

**28 1/2 Road Water Line Plan from 170B to North and Hill, Teller, & Belford West**

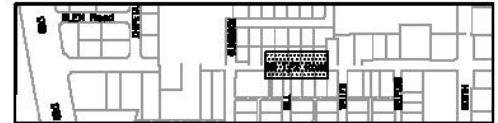


**CONSTRUCTION NOTES**

- 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)
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 400 102.7/108.2 - WATER MAIN PIPE (C-800 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 410 END CAP/PLUG (SIZE AS SHOWN)
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 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.



SEE PAVING PLANS FOR PAVING DATA



KEYMAP

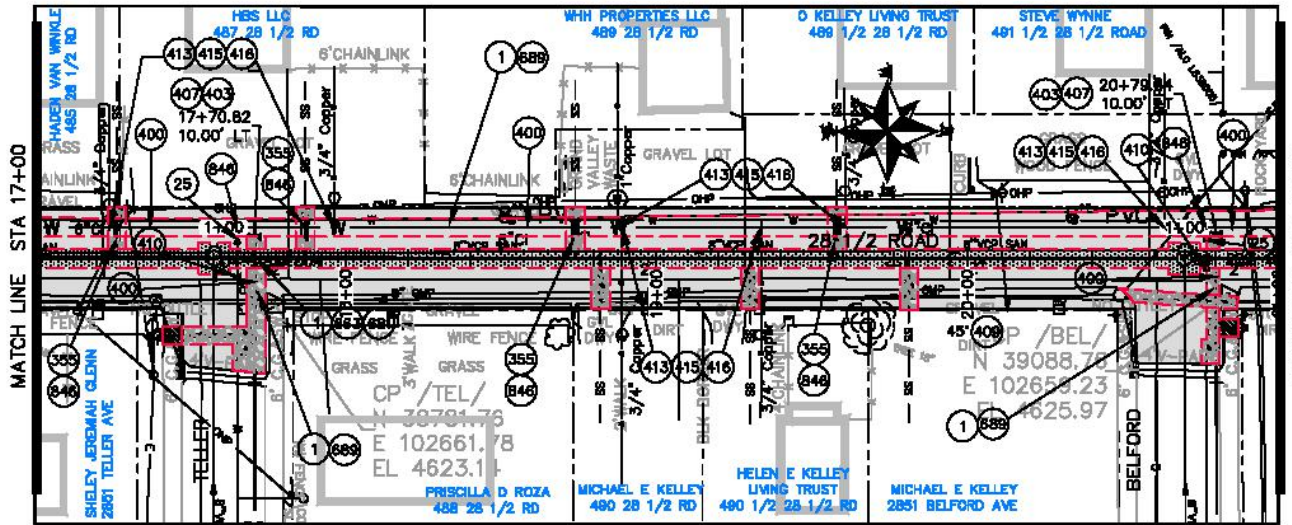
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PUBLIC WORKS

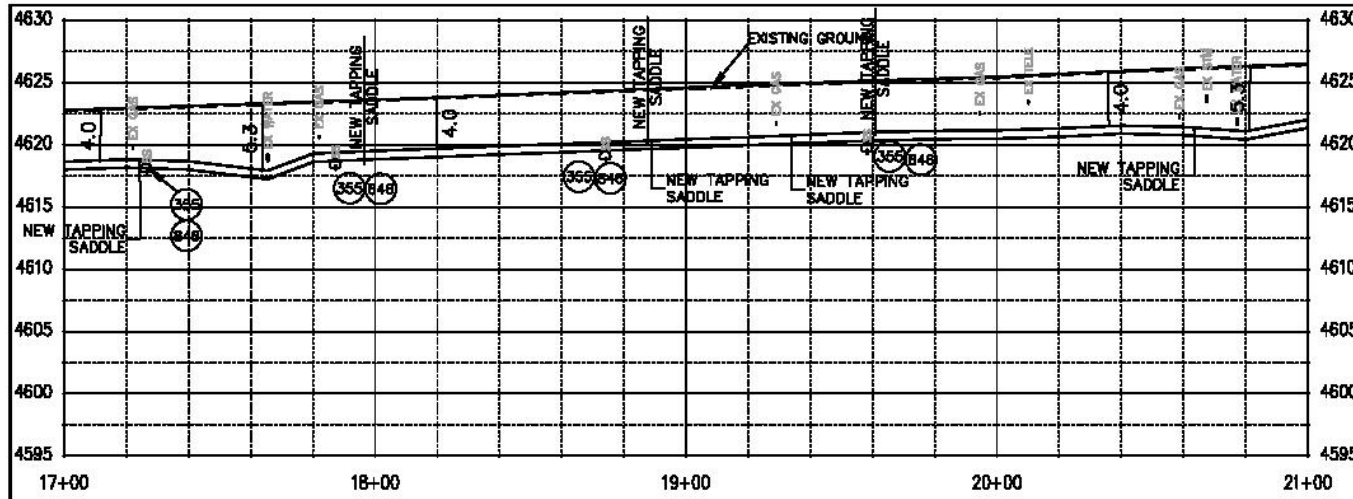
PUBLIC WORKS
   
 ENGINEERING DIVISION

28 1/2 Road Water Line Plan
   
 from 170B to North and Hill, Teller, & Belford West

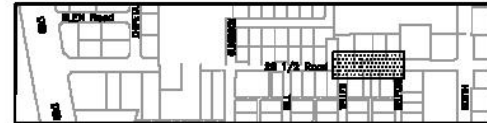
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- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL
  - 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18\"/>



SEE PAVING PLANS FOR PAVING DATA



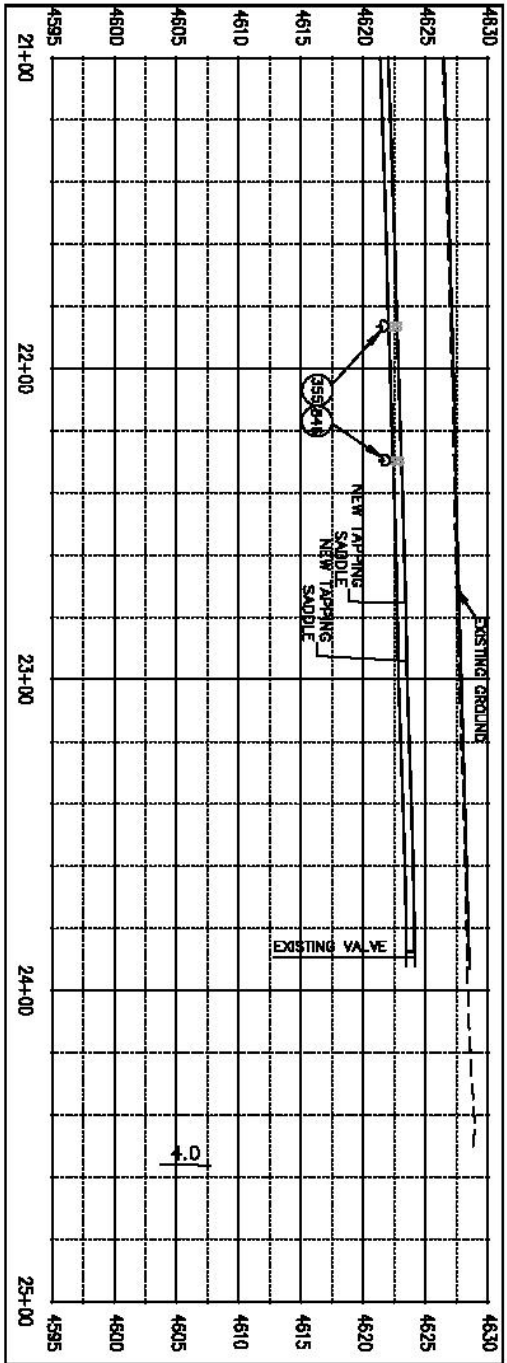
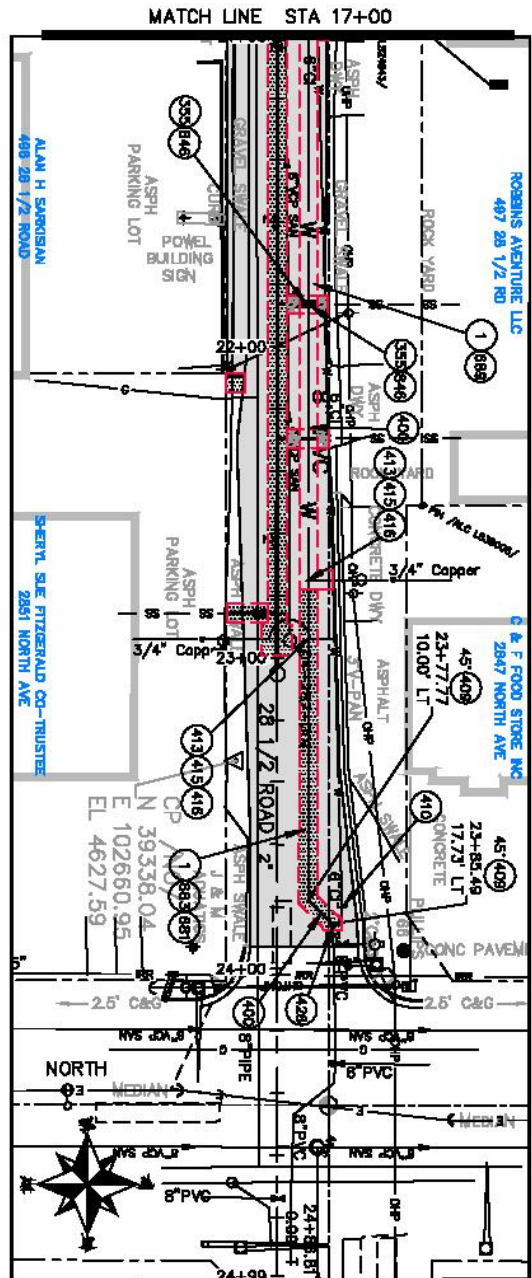
KEYMAP

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REVISION B		2017	JES	2017	JES	2017		
REVISION C		2017	JES	2017	JES	2017		
REVISION D		2017	JES	2017	JES	2017		



**PUBLIC WORKS ENGINEERING DIVISION**

**28 1/2 Road Water Line Plan**  
from 170B to North and Hill, Teller, & Belford West



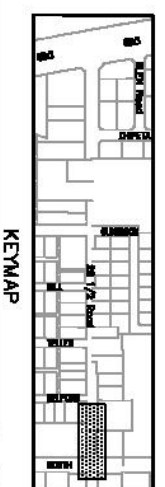
- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN, (INDICATED BY DOT HATCH PATTERN)
  - 355 104-40 - CAP TOP HALF OF SOWER IN CONCRETE PER DETAIL 81-04 (WATER LINE LESS THAN 18" ABOVE SOWER LINE)
  - 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN), INCLUDES THE A BEDDING AND HAUNCHING MATERIAL, AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
  - 408 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
  - 410 END CAP/PLUG (SIZE AS SHOWN)
  - 413 102.76/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
  - 415 102.8K/108.4 - TAPPING SADDLE (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
  - 846 304 - AGGREGATE BASE COURSE (CLASS 8) (6" THICK)
  - 881 401.0B - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SK BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
  - 699 ENGINEER APPROVED TEMPORARY PATCH (FOOT SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
  - 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.

DESIGNED BY	DATE	REVISION	DATE
CHECKED BY	DATE	APPROVED BY	DATE
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REVISION B	06/23/2017		
REVISION C	06/23/2017		

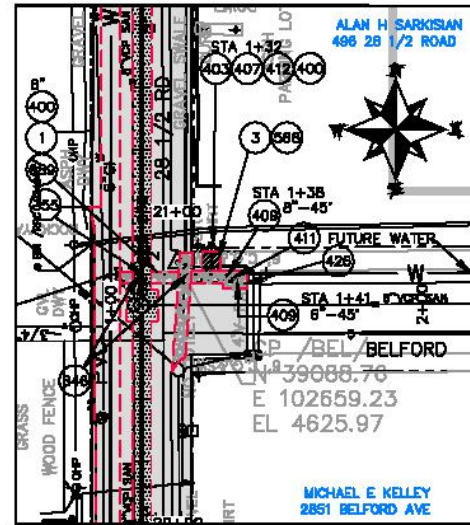
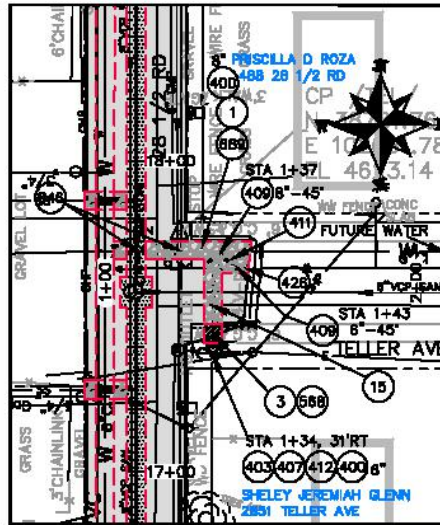
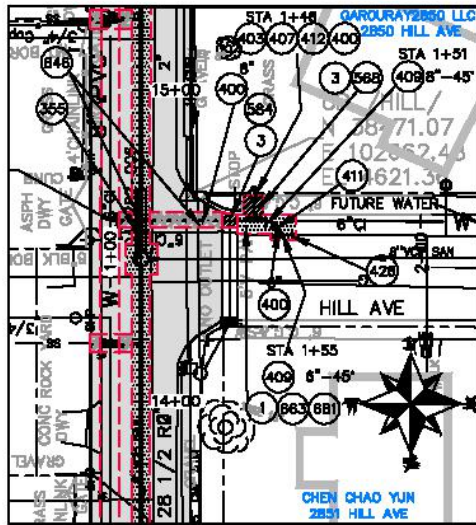


**PUBLIC WORKS**  
ENGINEERING DIVISION

28 1/2 Road Walker Line Plan  
from T09 to North and Hill, Teller, & Bedford West

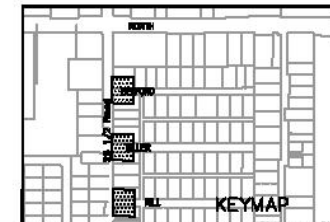
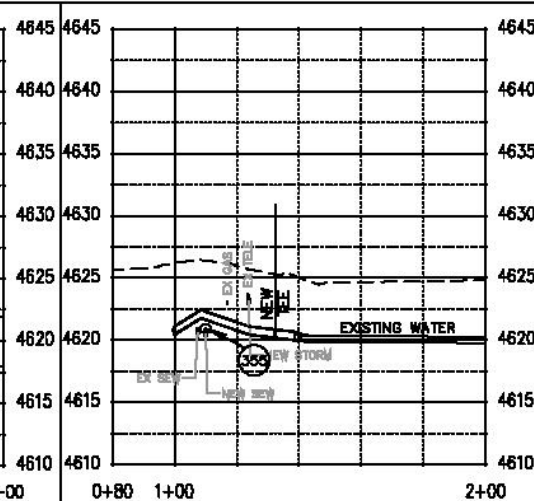
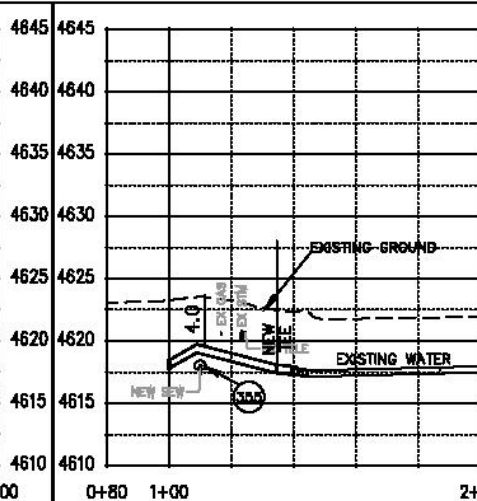
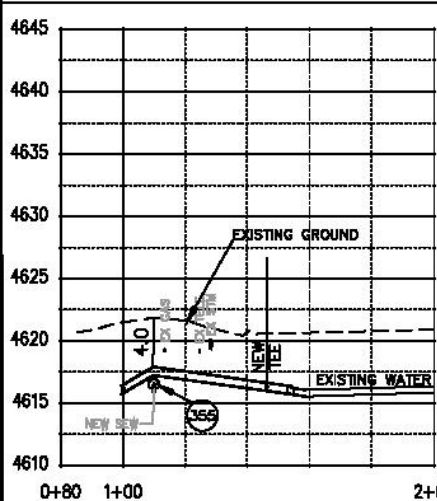


SEE PAVING PLANS  
FOR PAVING DATA



**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)
- 353 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 400 102.8/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 411 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- 412 102.8b/108.3 - FIRE HYDRANT
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 588 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (8' WIDE)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 584 608.06 - CONCRETE DRAINAGE PAN (5' WIDE)
- 683 304 - AGGREGATE BASE COURSE (CLASS 8) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 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.



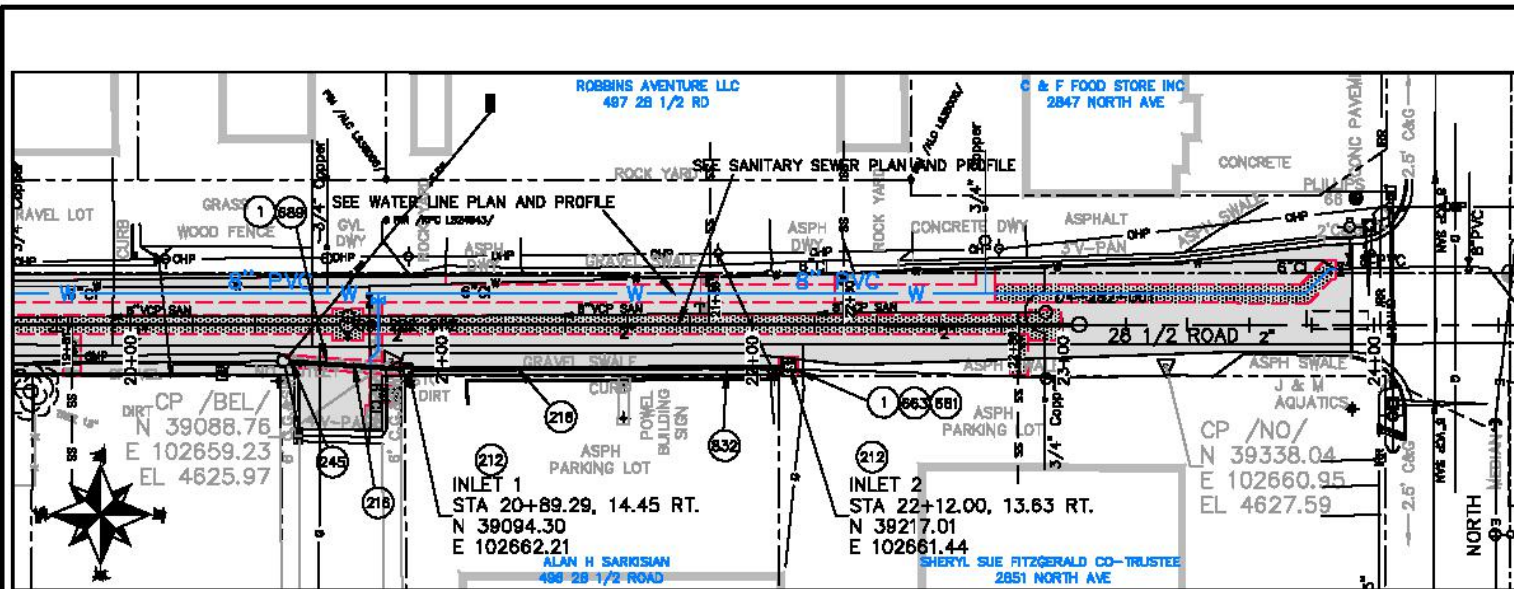
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**PUBLIC WORKS  
ENGINEERING DIVISION**

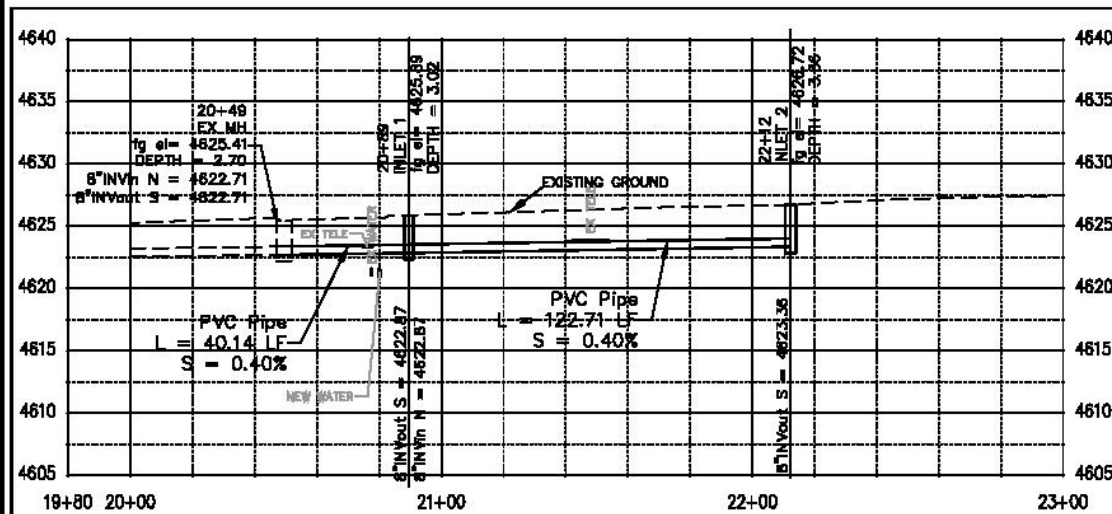
**28 1/2 Road Water Line Plan  
from 170B to North and Hill, Teller, & Belford West**

N:\landproj\2017 28.5 ROAD\DWG\STORM DRAIN PLAN AND PROFILE.dwg, 5/27/2017 6:53:15 AM



**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. INDICATED BY DOT HATCH PATTERN)
- 212 102.13/108.6 - LARGE AREA INLET (SEE CITY OF GRAND JUNCTION STANDARD DETAIL D-10).
- 218 102.10/108.2 - 8" STORM DRAIN PIPE (PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL.
- 245 102.13/108.6 - CONNECT TO EXISTING STORM DRAIN INLET OR MANHOLE ( 8" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08).
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 832 RESET TELEPHONE LINE (BY OTHERS).



SEE PAVING PLANS FOR PAVING DATA



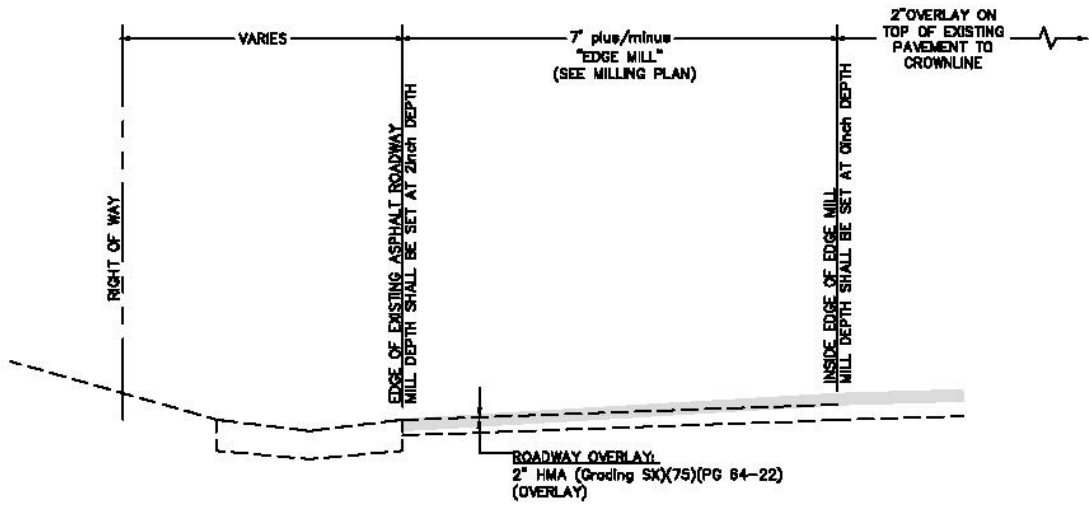
KEYMAP

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REVISION B	ISSUE	2017	JES	JES	2017
REVISION C	ISSUE	2017	JES	JES	2017
REVISION D	ISSUE	2017	JES	JES	2017



**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Storm Drain  
from I70B to North Ave**



STATION RANGES LEFT:  
 10+87 TO 11+02  
 20+96 TO 24+00

STATION RANGES RIGHT:  
 10+86 TO 10+89  
 22+10 TO 24+00

**28 1/2 ROAD**  
**TYPICAL SECTION FOR OVERLAY TO EXISTING EDGE OF PAVEMENT**  
 (right side same as left)

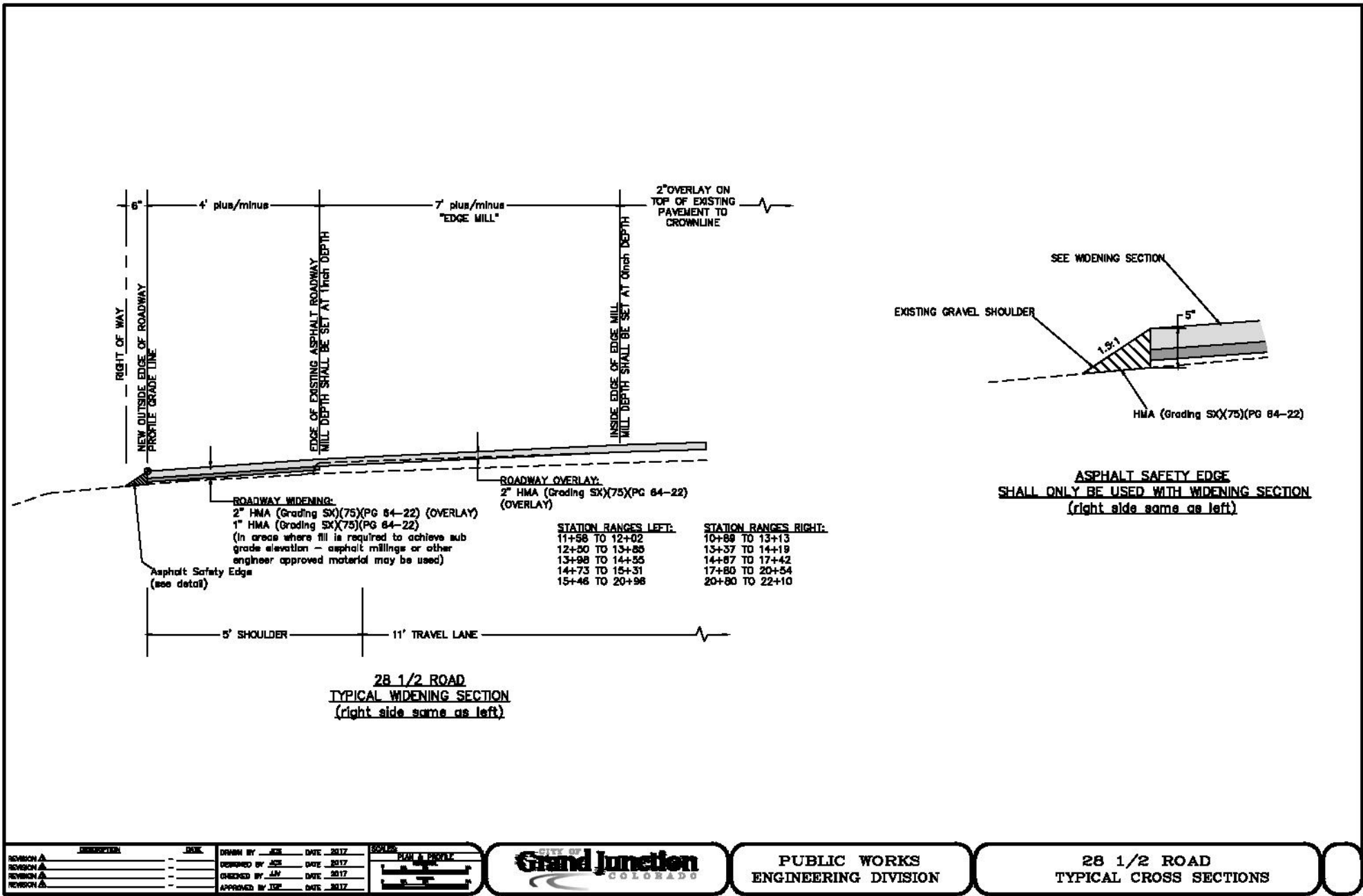
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DRAWN BY	DATE	2017
CHECKED BY	DATE	2017
APPROVED BY	DATE	2017



**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**28 1/2 ROAD**  
**TYPICAL CROSS SECTIONS**

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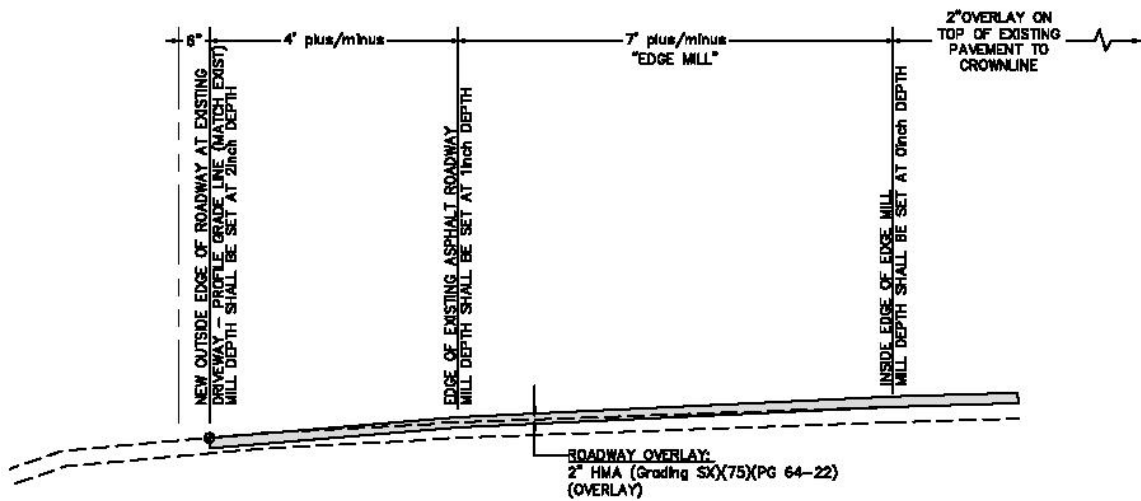
REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
REVISION A								
REVISION B								
REVISION C								
REVISION D								



**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 ROAD  
TYPICAL CROSS SECTIONS**





<b>STATION RANGES LEFT:</b>	<b>STATION RANGES RIGHT:</b>
11+02 TO 11+58	13+13 TO 13+37
12+02 TO 12+50	14+19 TO 14+67
13+84 TO 13+98	17+42 TO 17+80
14+55 TO 14+73	20+54 TO 20+80
15+31 TO 15+48	



**28 1/2 ROAD**  
**TYPICAL SECTION AT EXISTING DRIVEWAY OR INTERSECTION**  
 (right side same as left)

REVISION Δ	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION Δ			DESIGNED BY	DATE	
REVISION Δ			CHECKED BY	DATE	
REVISION Δ			APPROVED BY	DATE	






**PUBLIC WORKS**  
**ENGINEERING DIVISION**

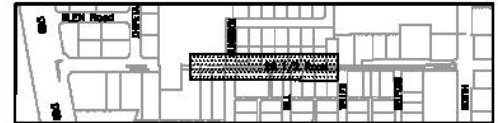
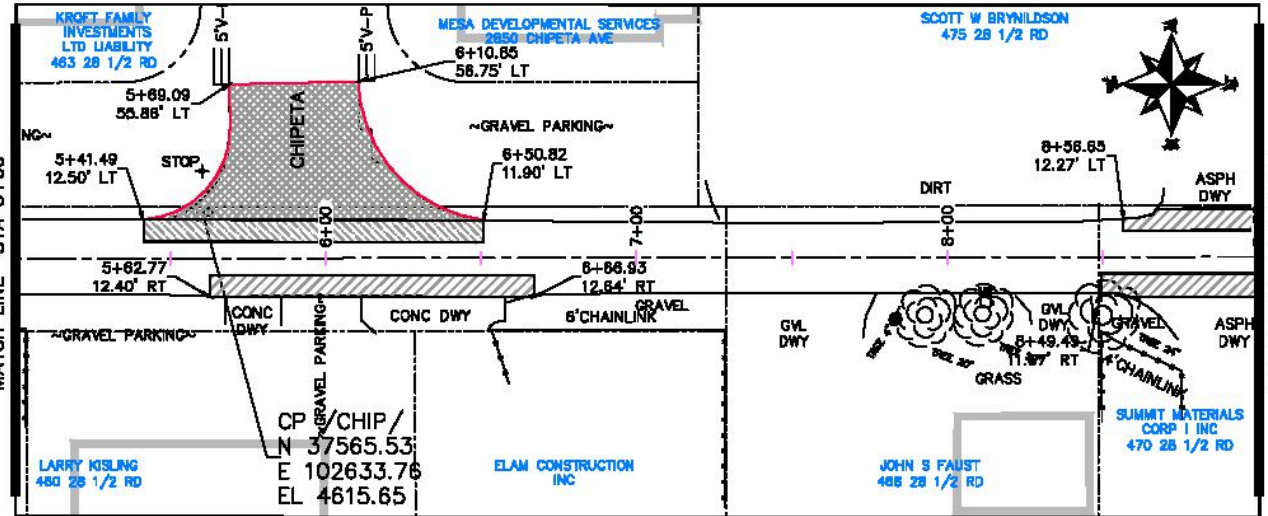
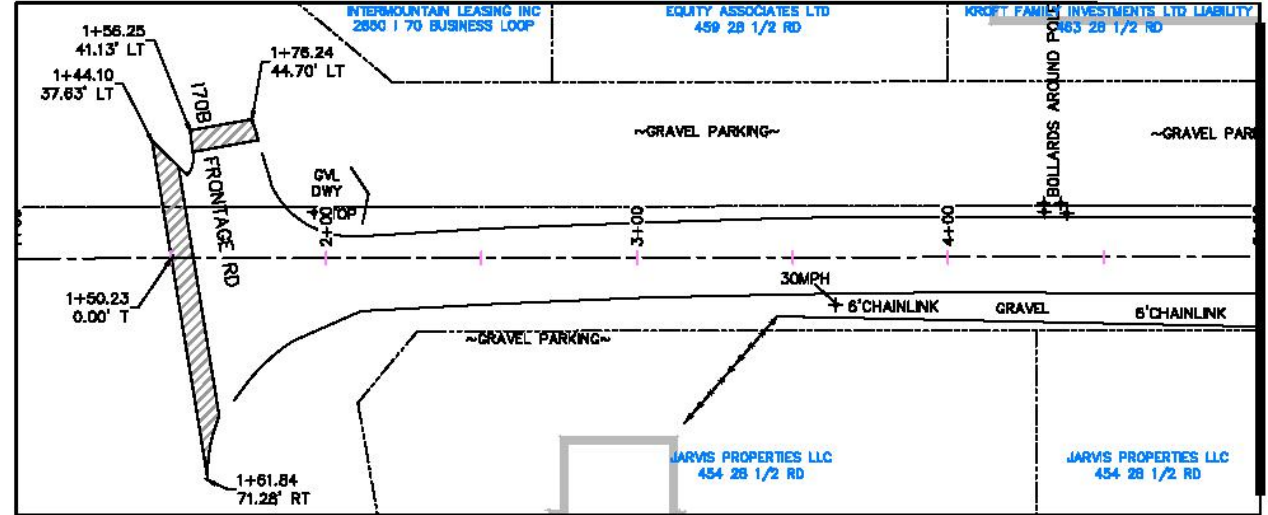
**28 1/2 ROAD**  
**TYPICAL CROSS SECTIONS**

**CONSTRUCTION NOTES**

- 1 202 - MILLING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

-  VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2" TO INSIDE AT 1" (SEE TYPICAL SECTIONS)
-  VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 1" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)
-  VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)



KEYMAP

REVISION	DATE	DESCRIPTION	BY	CHECKED BY	DATE
REVISION A	2017				
REVISION B	2017				
REVISION C	2017				
REVISION D	2017				

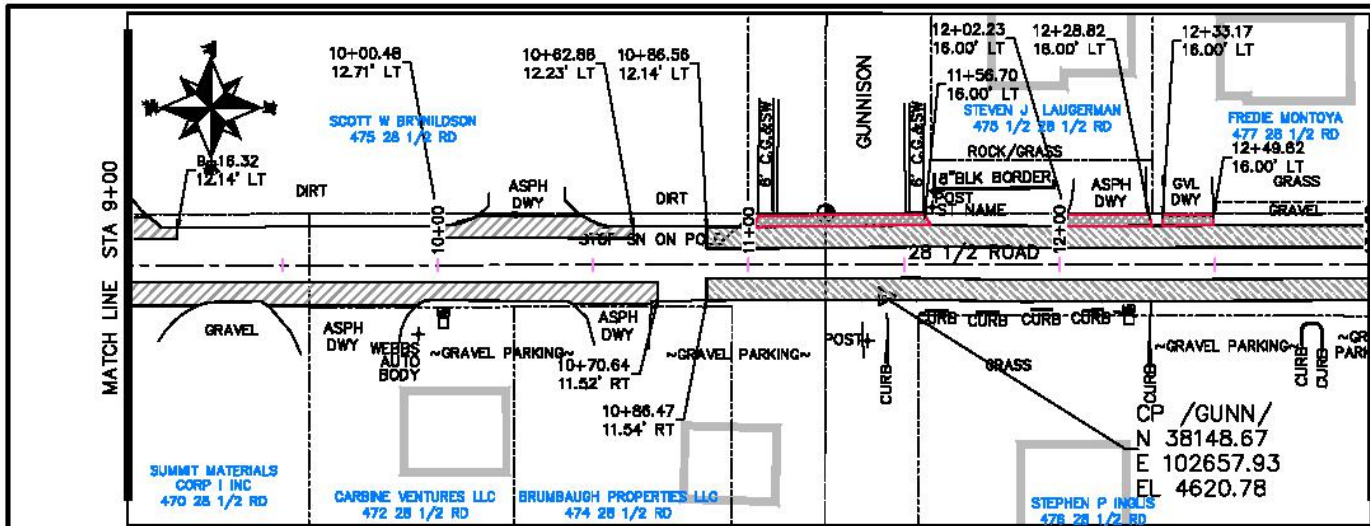
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2017	JSE	DESIGNED
2017	JSE	CHECKED
2017	JAV	CHECKED
2017	JSE	APPROVED



**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Milling Plan  
from I70B to North Ave**

N:\land\proj\2017 28.5 ROAD\DWG\ROADWAY MILLING PLAN.dwg, 6/27/2017 7:00:55 AM

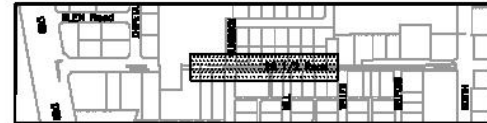
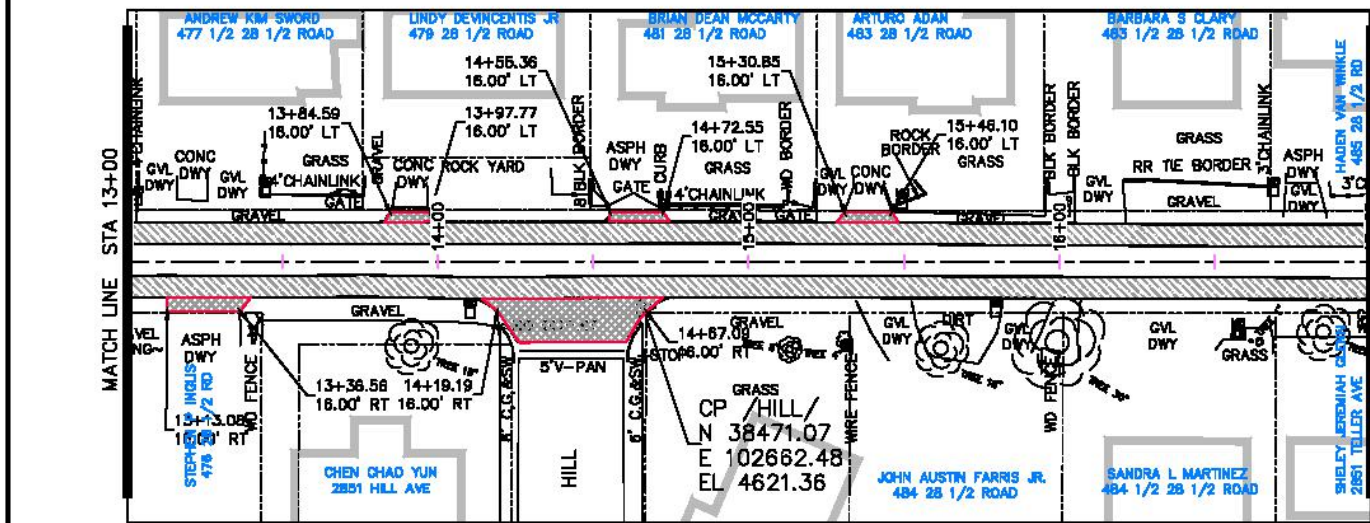


**CONSTRUCTION NOTES**

- 1 202 - MILLING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

- VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2" TO INSIDE AT 1" (SEE TYPICAL SECTIONS)
- VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 1" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)
- VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)



KEYMAP

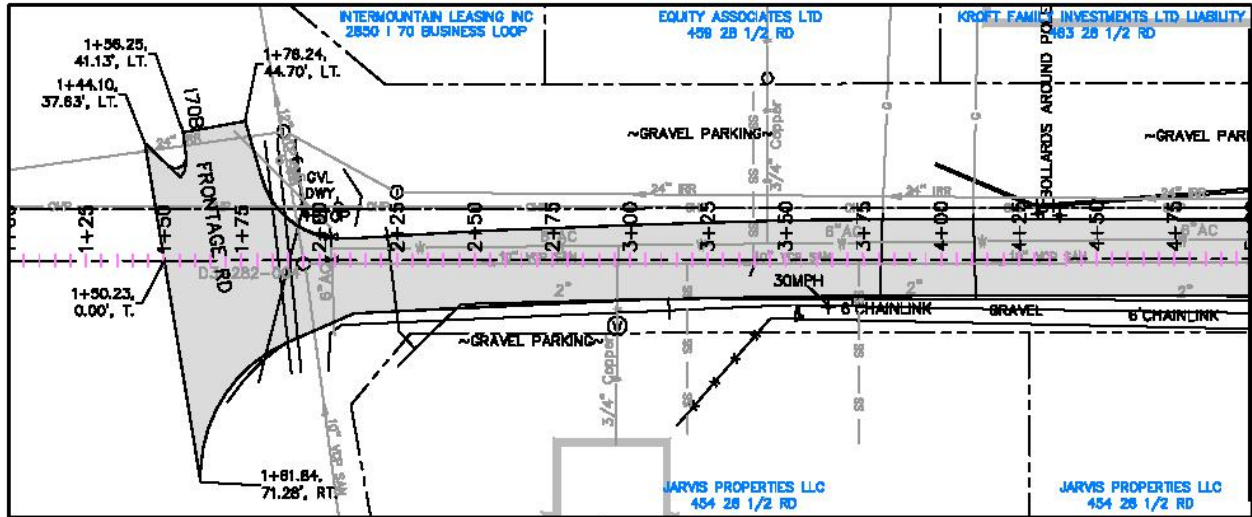
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REVISION A.002	REVISED	2017	JES	JES	2017
REVISION A.003	CHECKED	2017	JAY	JAY	2017
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**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Milling Plan  
from I70B to North Ave**




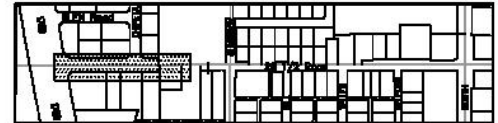
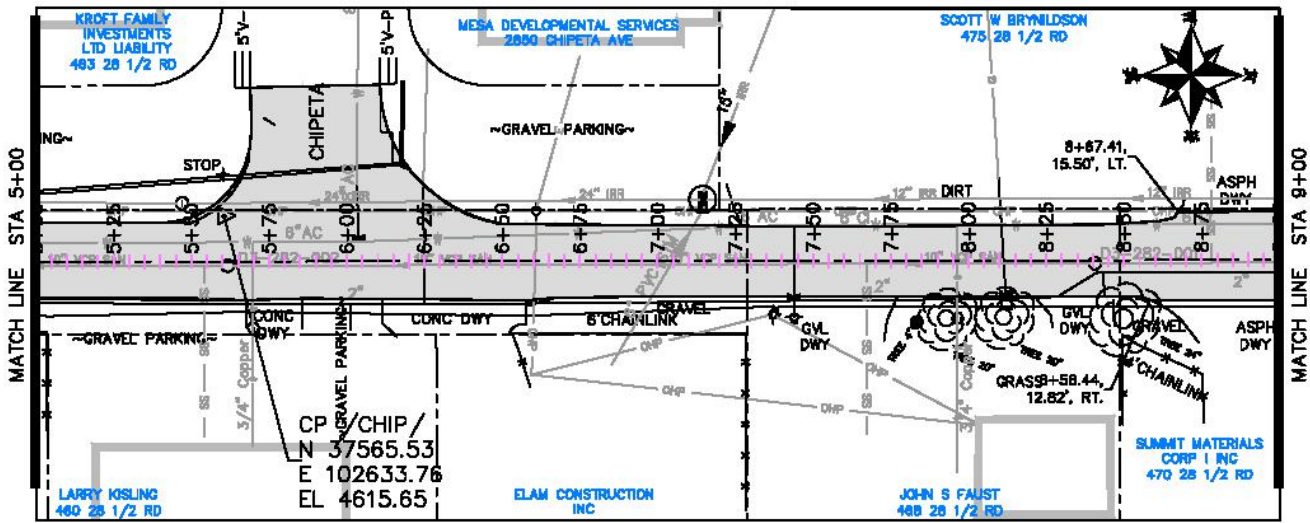


**CONSTRUCTION NOTES**

- 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

 HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)



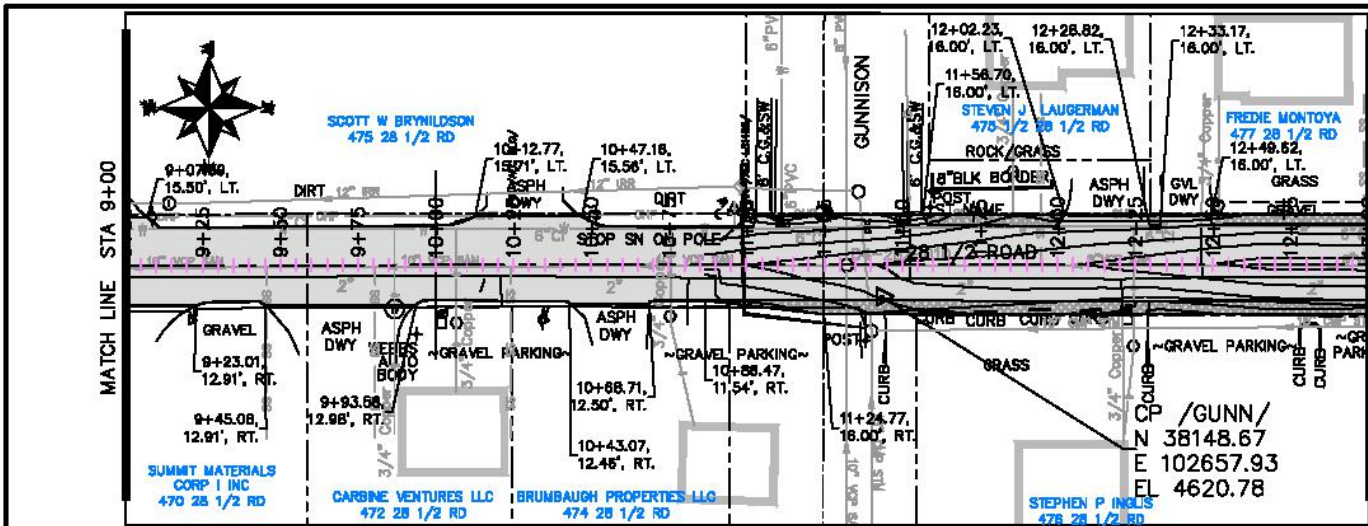
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REVISION B	REVISED	2017	JES	2017	JES
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**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Paving Plan  
from I70B to North Ave**

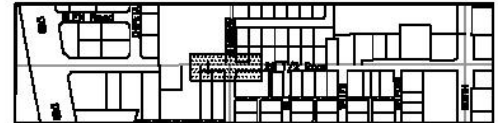
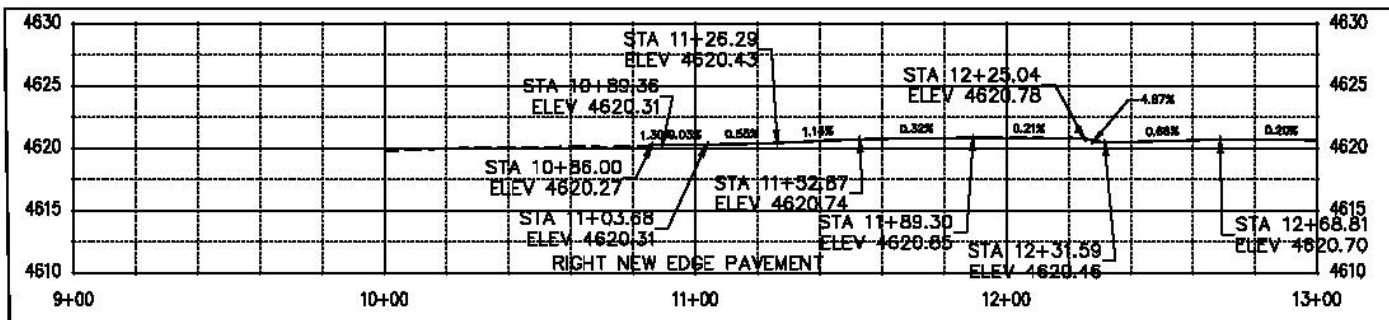
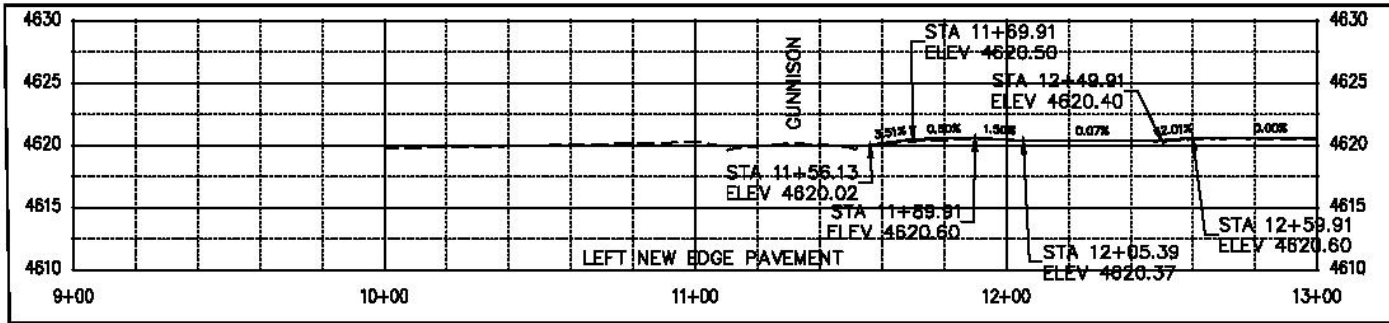


**CONSTRUCTION NOTES**

- 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

- HOT MIX ASPHALT WIDENING (SEE TYPICAL SECTIONS)
- HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)



KEYMAP

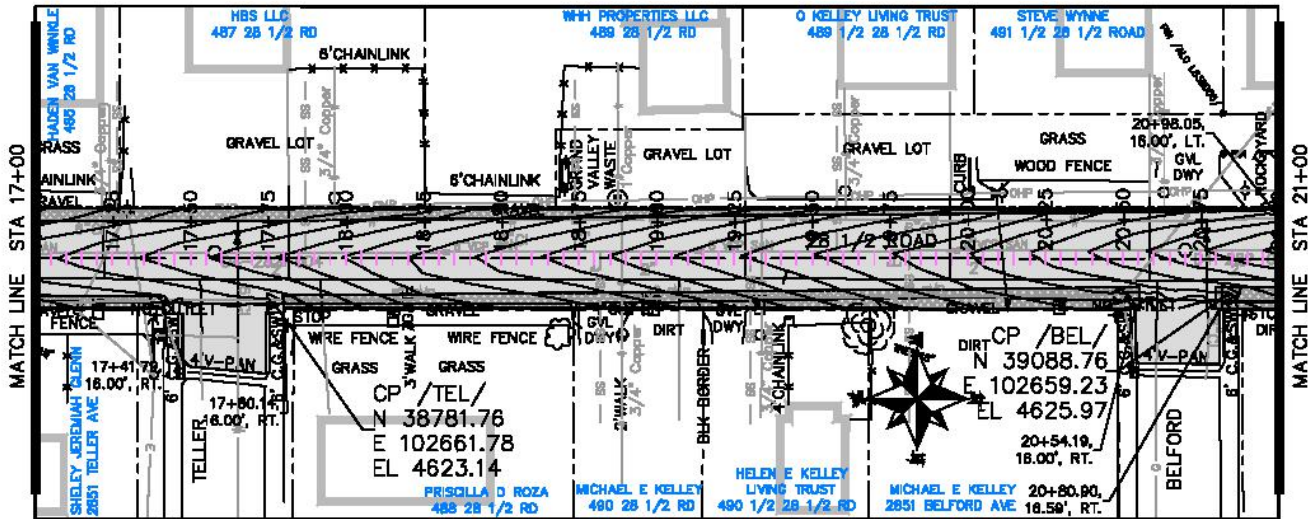
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**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Paving Plan  
from I70B to North Ave**





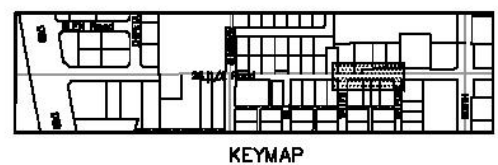
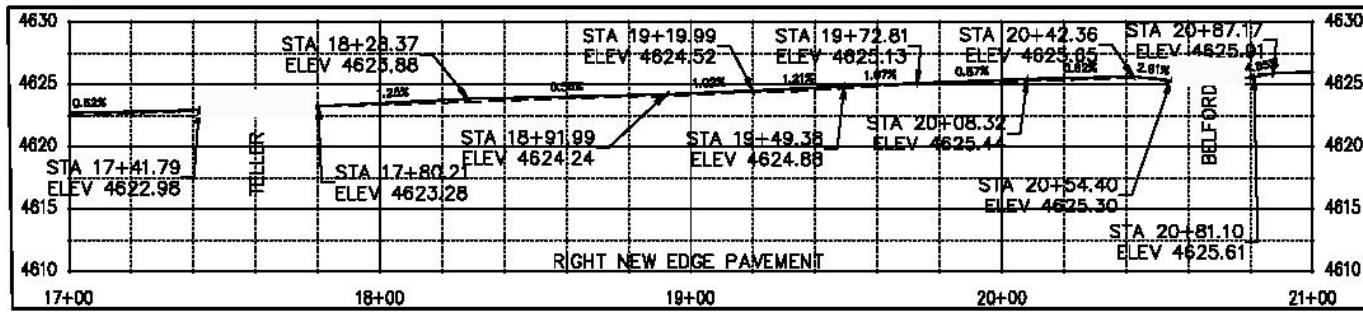
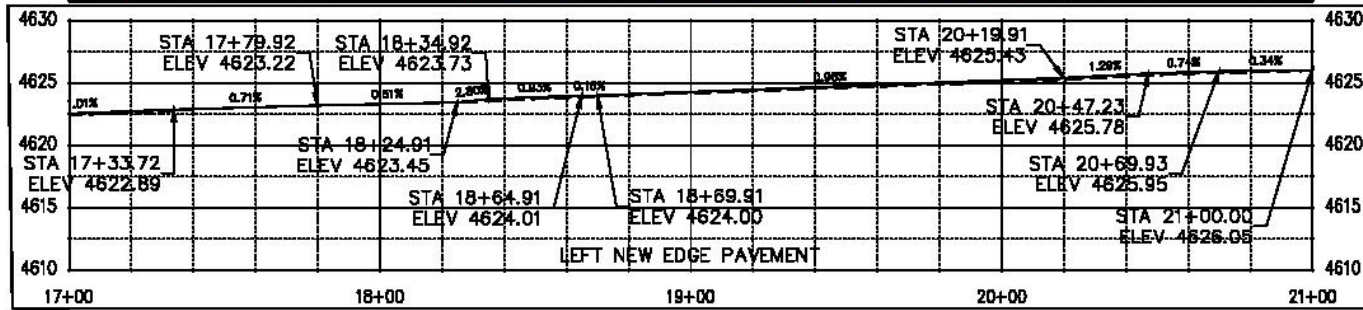
**CONSTRUCTION NOTES**

1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

HOT MIX ASPHALT WIDENING (SEE TYPICAL SECTIONS)

HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)



REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE
REVISION A	ISSUE	2017	JES	JES	2017
REVISION B	ISSUE	2017	JES	JES	2017
REVISION C	ISSUE	2017	JAY	JAY	2017
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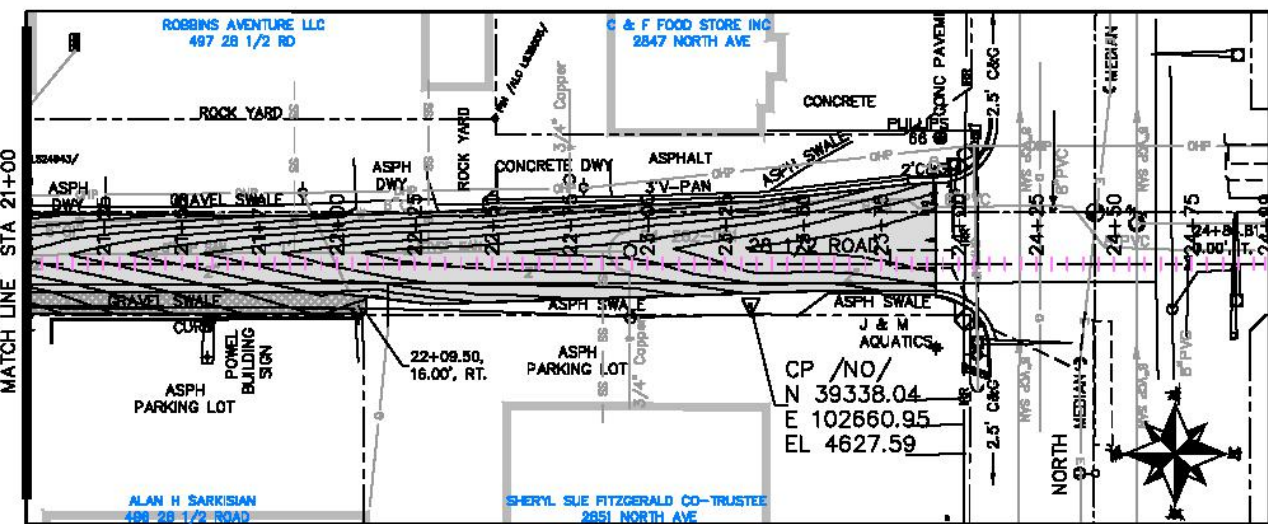
PUBLIC WORKS

ENGINEERING DIVISION

28 1/2 Road Paving Plan  
 from I70B to North Ave





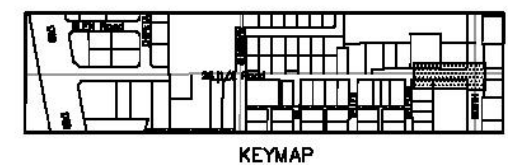
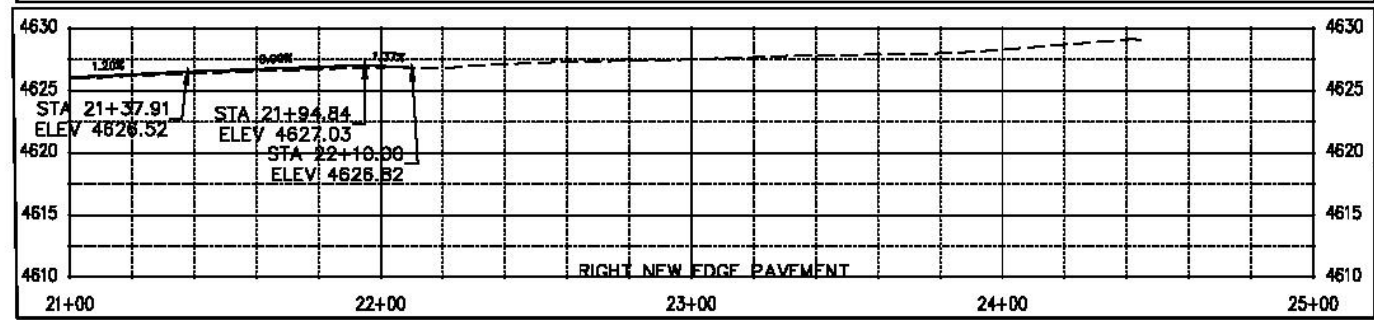
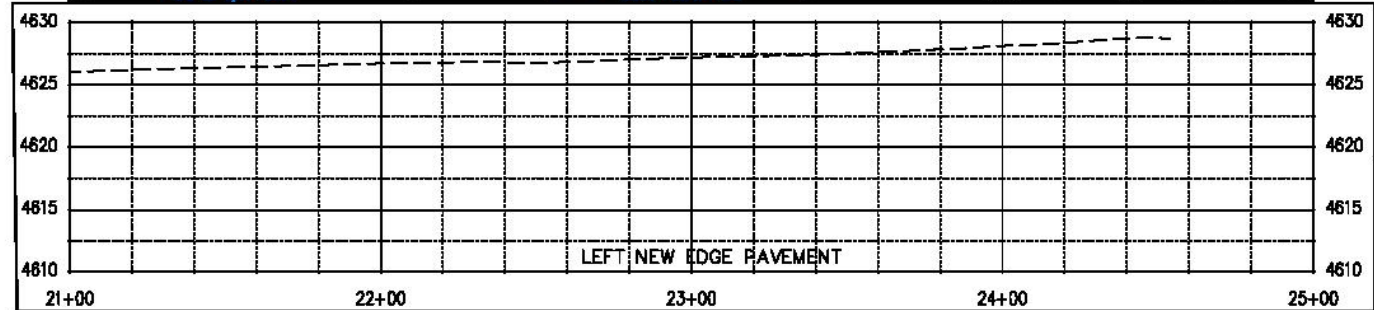
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**CONSTRUCTION NOTES**  
 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

-  HOT MIX ASPHALT WIDENING (SEE TYPICAL SECTIONS)
-  HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)

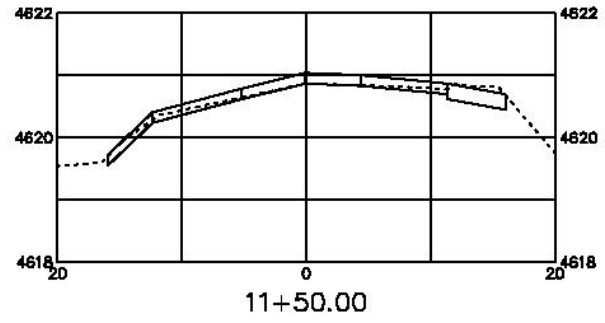
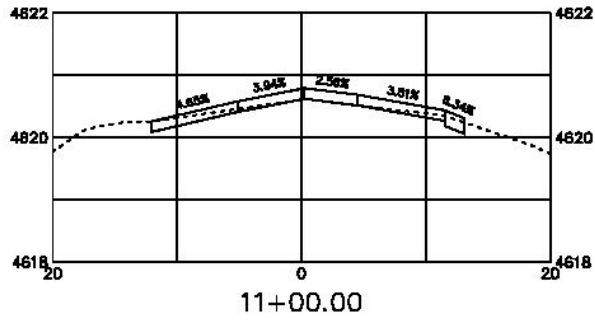
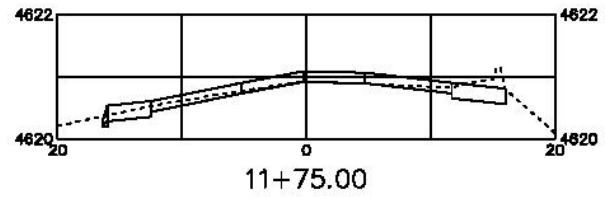
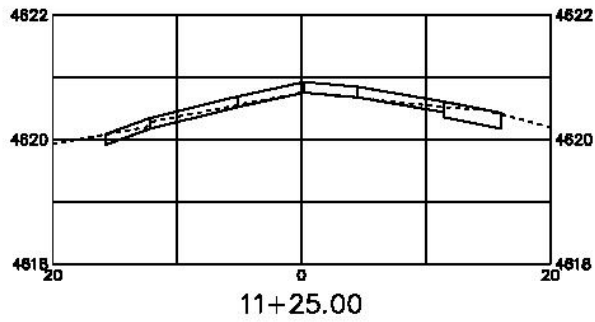


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REVISION B	ISSUE	2017	JES	JES	2017
REVISION C	ISSUE	2017	JAY	JAY	2017
REVISION D	ISSUE	2017	JES	JES	2017


  
 PLAN & PROFILE

**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**28 1/2 Road Paving Plan**  
**from I70B to North Ave**

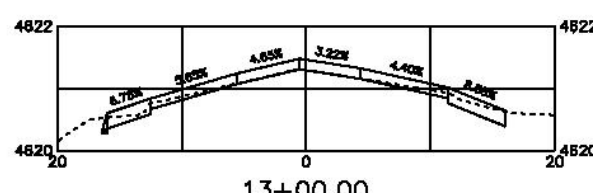
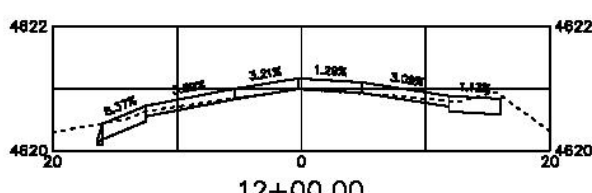
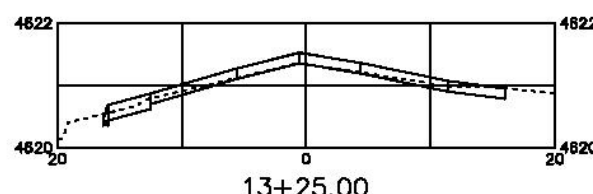
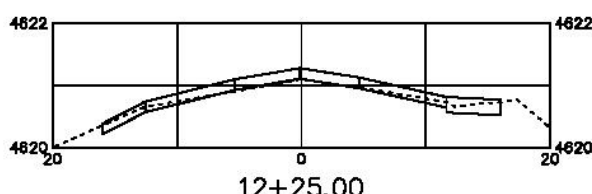
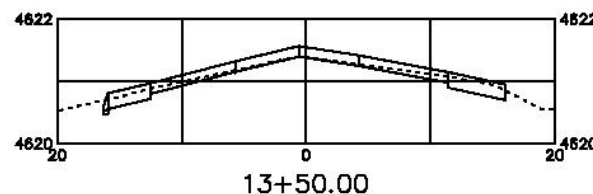
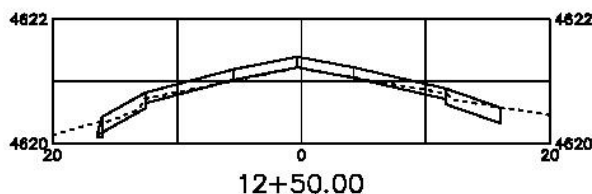
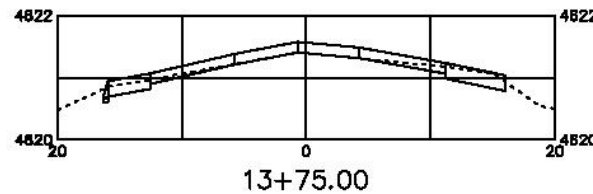
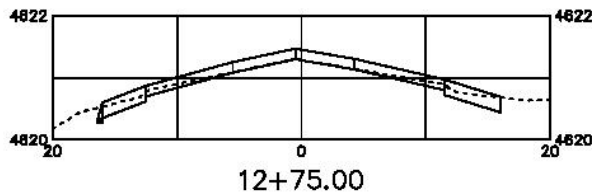


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REVISION								
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PUBLIC WORKS  
ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS



REVISION	DESCRIPTION	DATE	BY

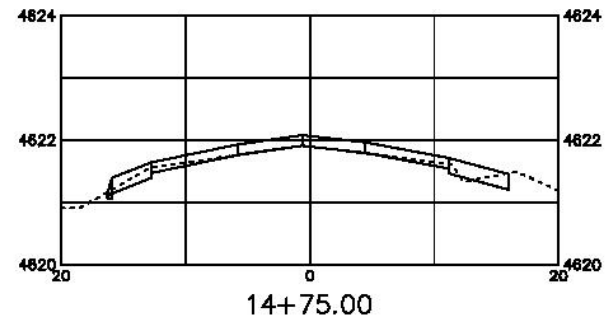
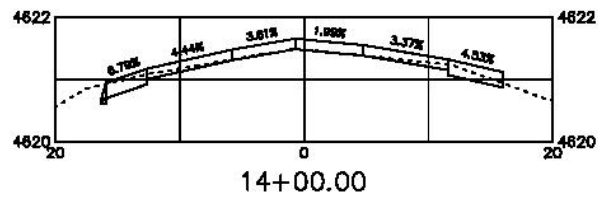
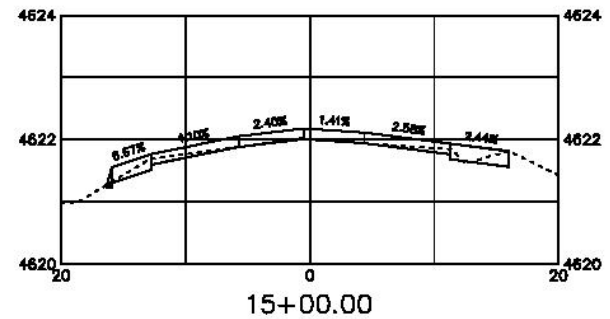
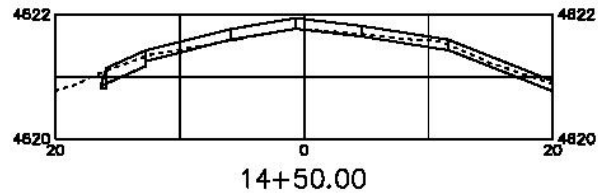
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PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 ROAD  
 CROSS SECTIONS

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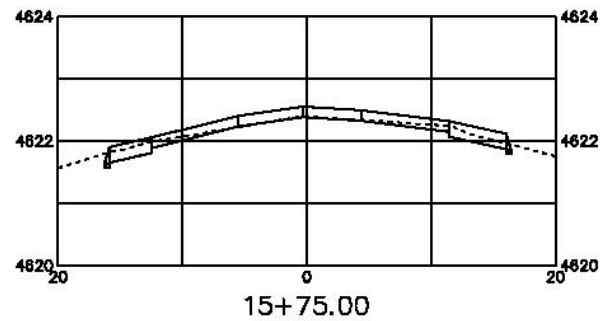
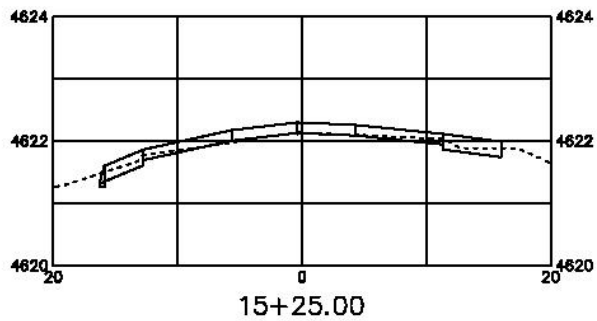
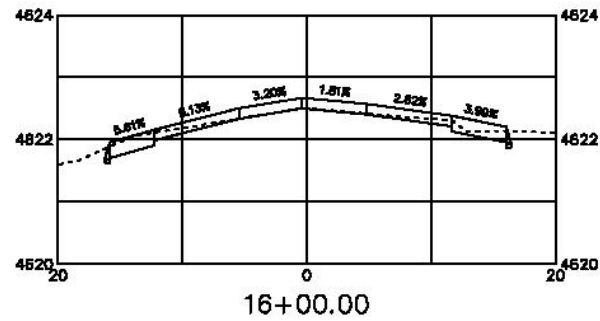
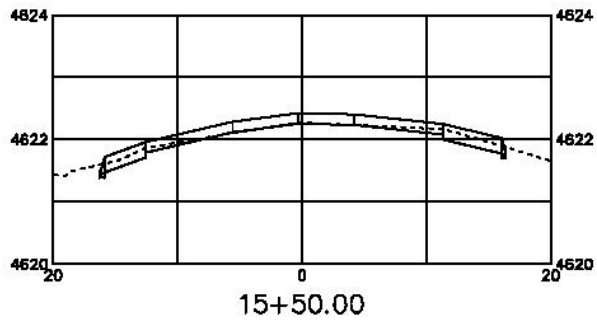
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PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 ROAD  
 CROSS SECTIONS



REVISION	DESCRIPTION	DATE	BY
REVISION			
REVISION			
REVISION			

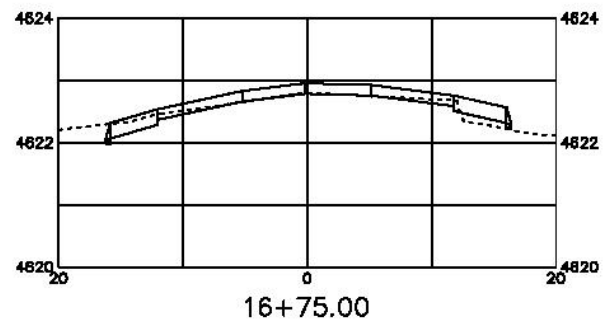
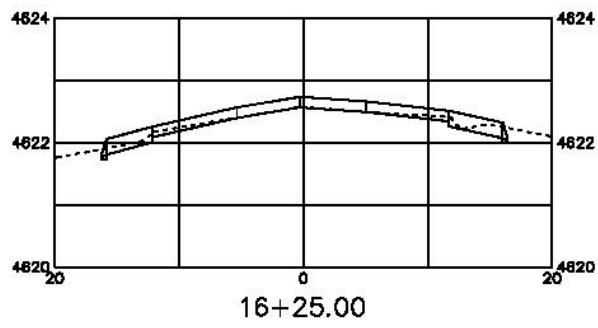
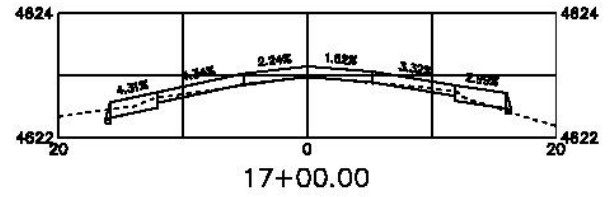
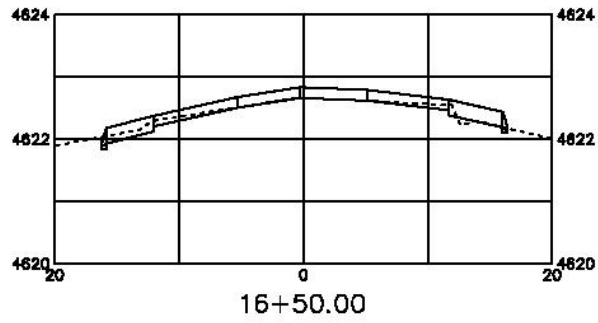
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PUBLIC WORKS  
ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS

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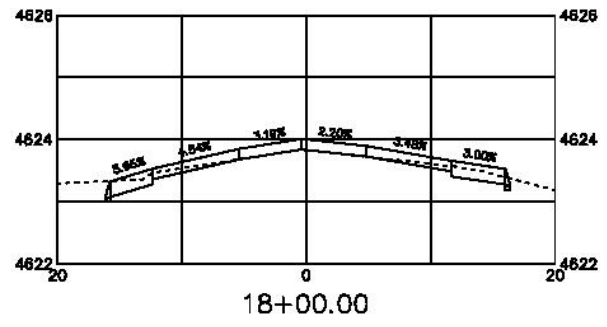
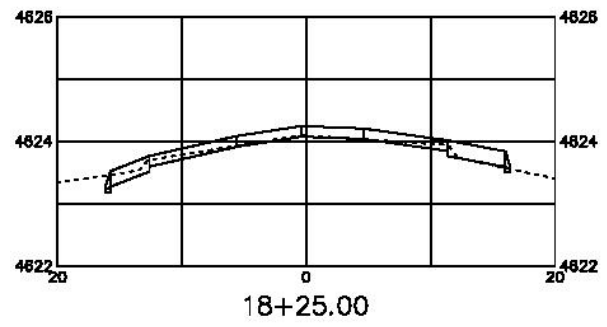
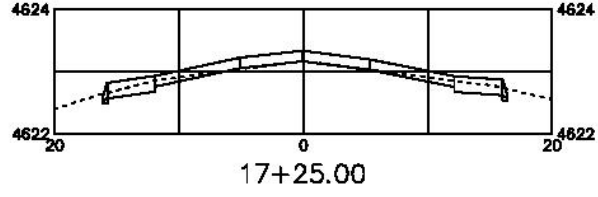
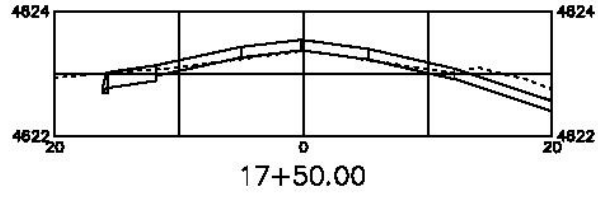
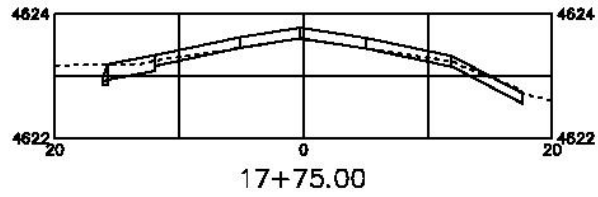
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**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 ROAD  
CROSS SECTIONS**



REVISION	DATE	BY	DATE	2017	DATE	2017
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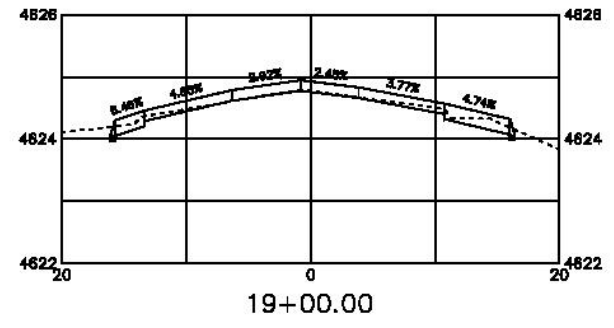
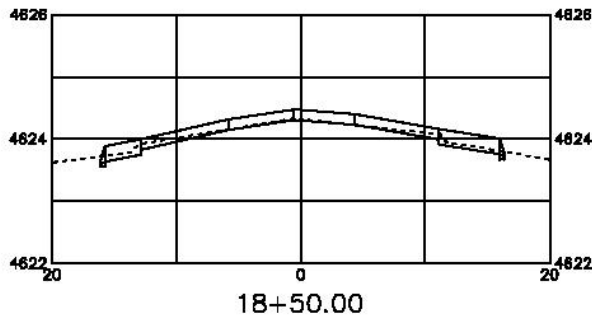
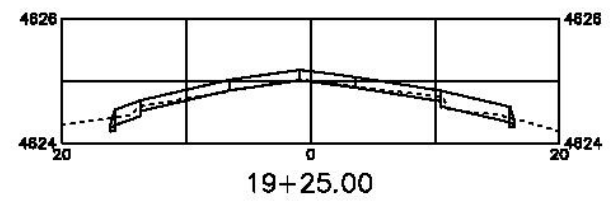
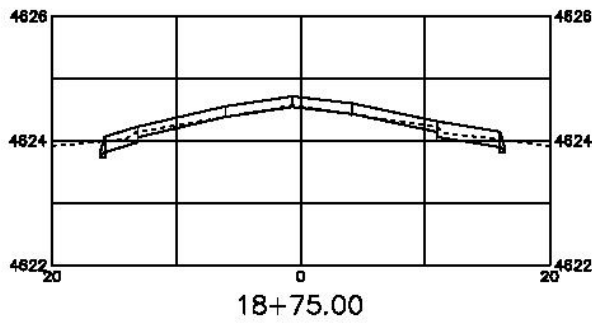


PUBLIC WORKS  
ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS

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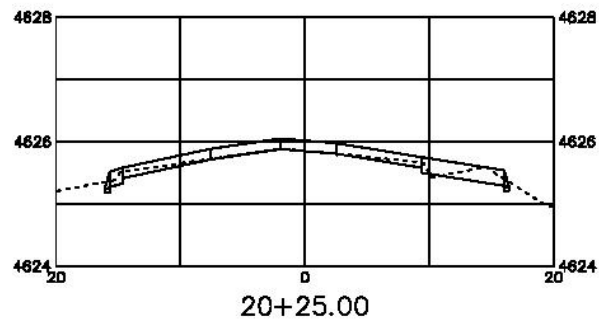
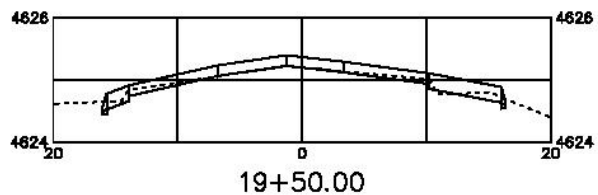
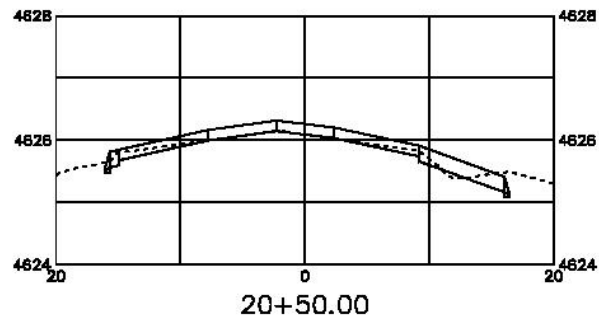
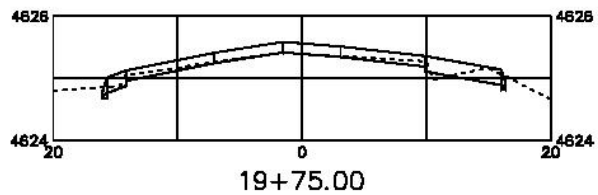
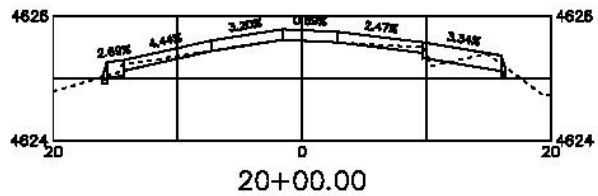


REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE

**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**28 1/2 ROAD**  
**CROSS SECTIONS**





REVISION	DESCRIPTION	DATE	BY	DATE	BY
REVISION					
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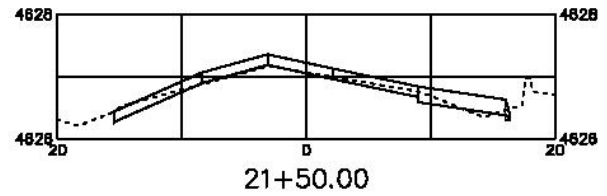
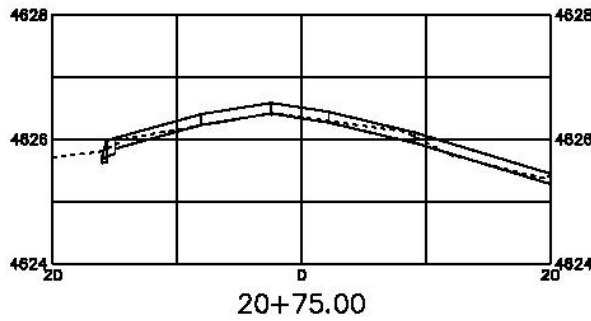
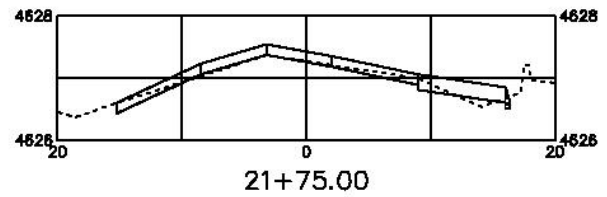
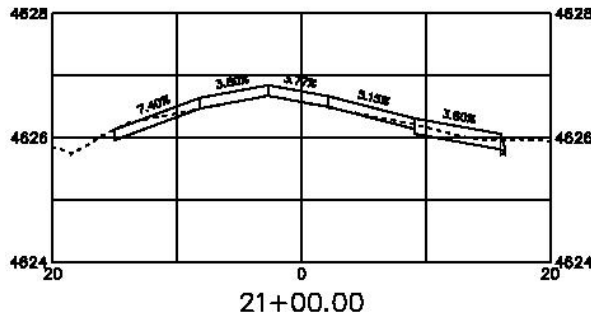
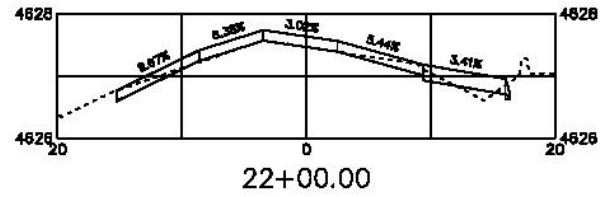
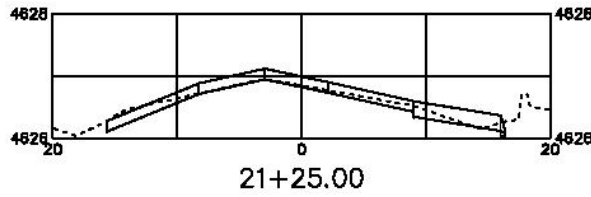
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PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 ROAD  
 CROSS SECTIONS

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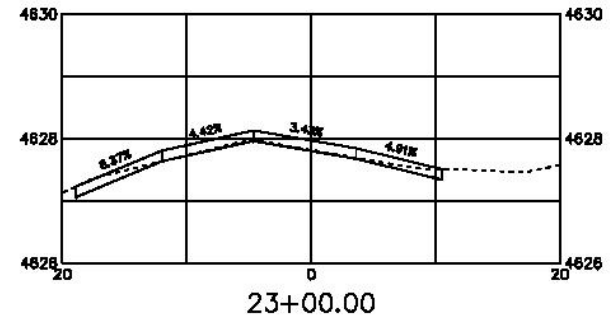
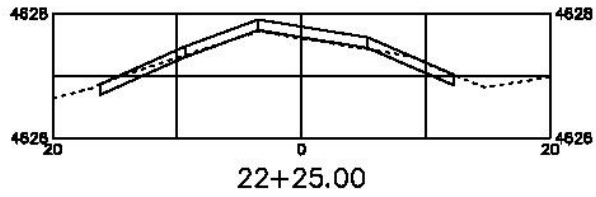
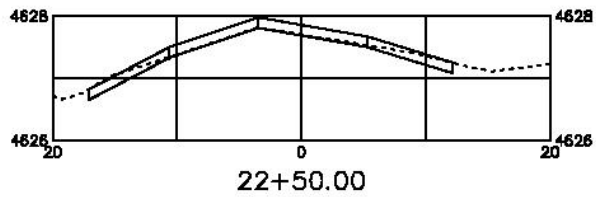
REVISION	DESCRIPTION	DATE	BY

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PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 ROAD  
 CROSS SECTIONS



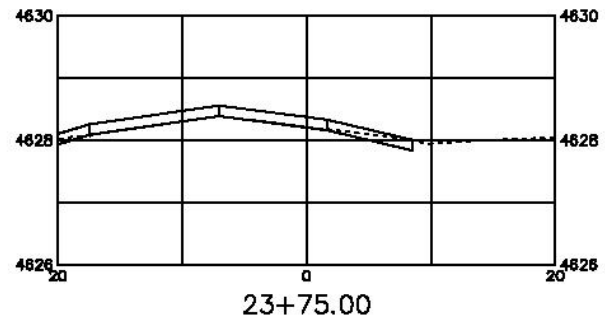
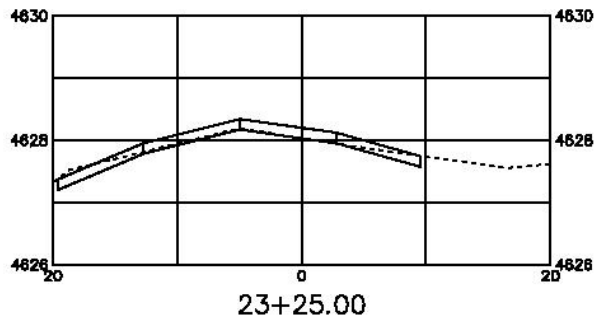
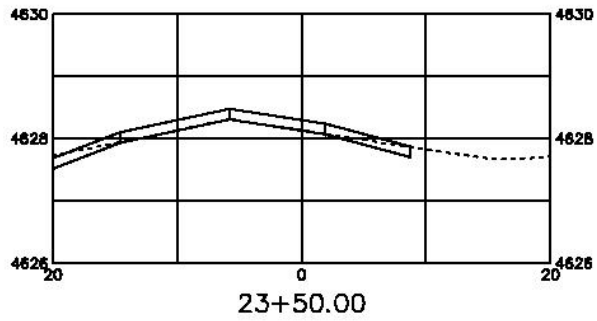
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REVISION			JAV	2017	
REVISION			TIP	2017	



PUBLIC WORKS  
ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS

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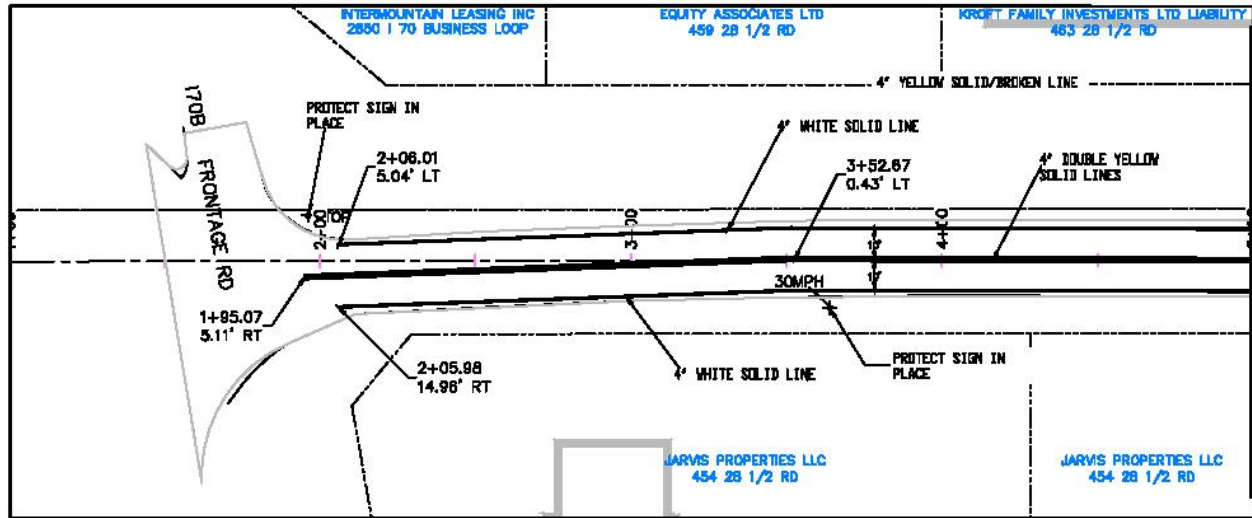
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REVISION			CHECKED BY	DATE	
REVISION			APPROVED BY	DATE	

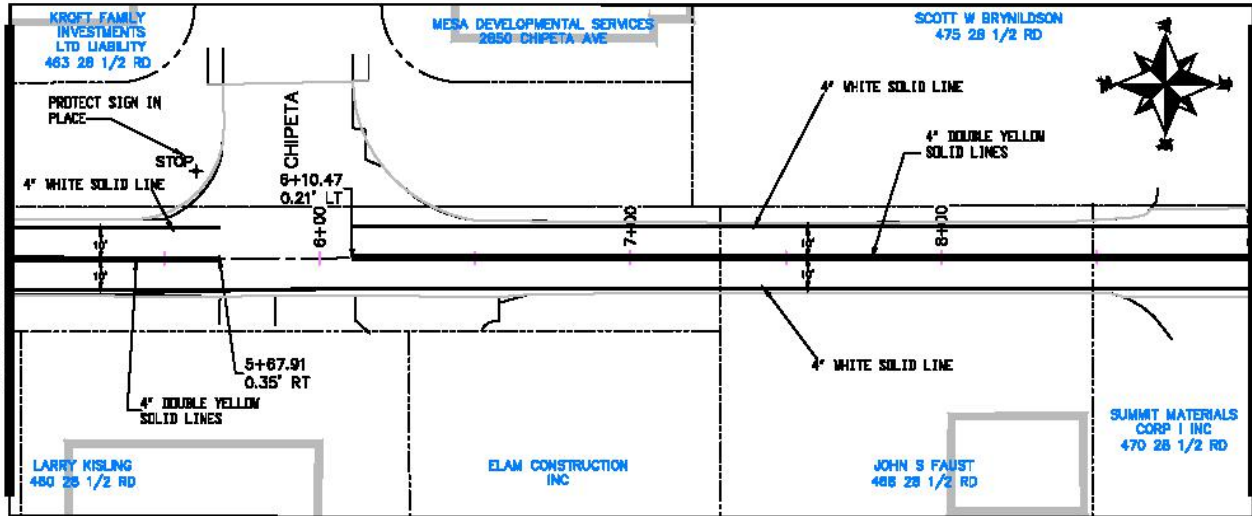


**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 ROAD  
CROSS SECTIONS**

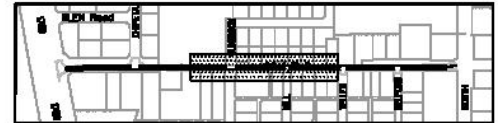


MATCH LINE STA 5+00



MATCH LINE STA 5+00

MATCH LINE STA 9+00



KEYMAP

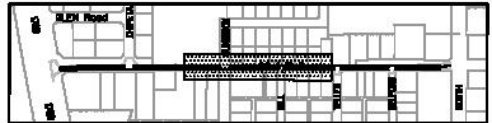
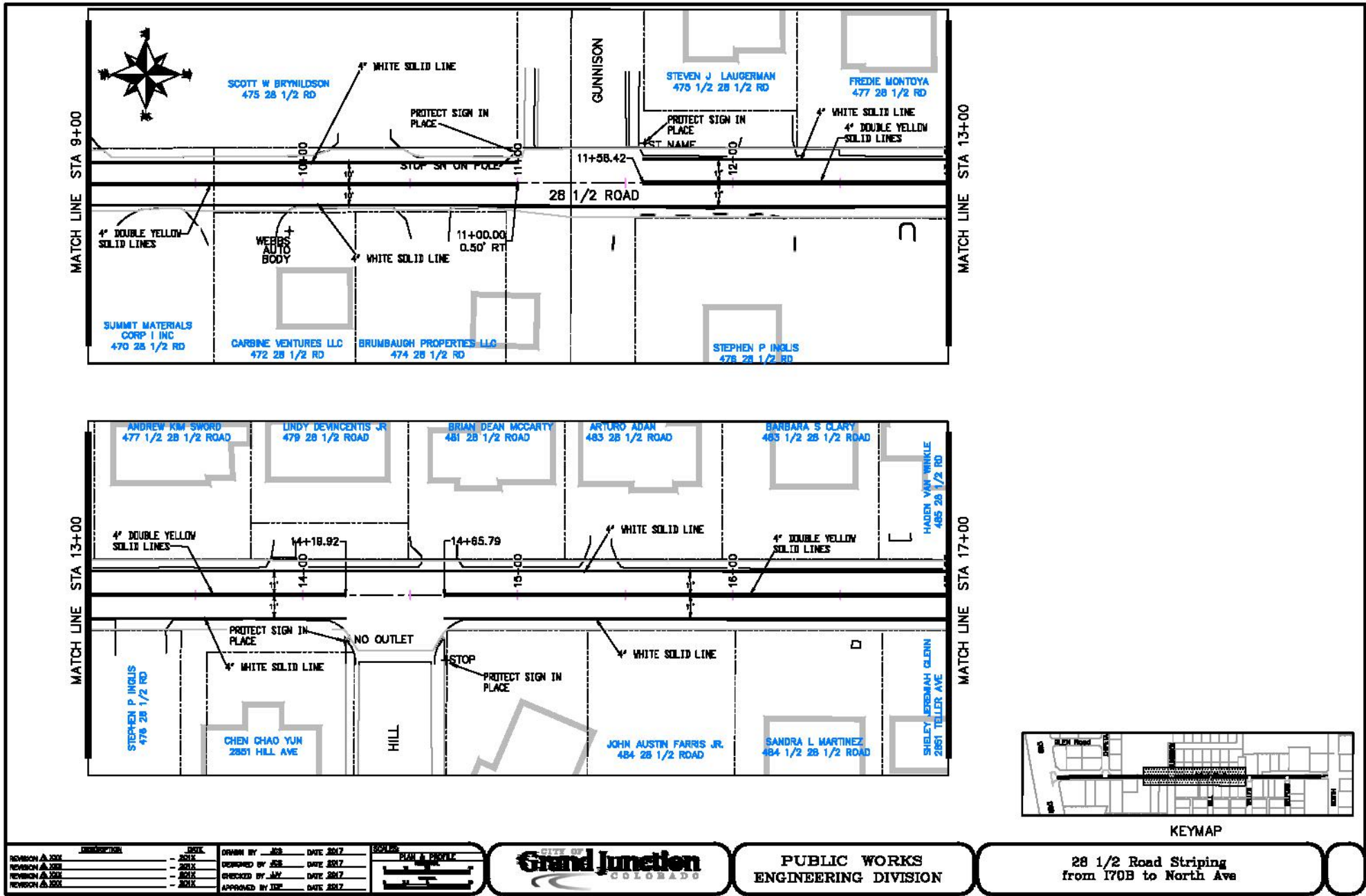
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REVISION B	2017	CHECKED BY JAV	JAV	2017	JSE
REVISION C	2017	APPROVED BY JSE	JSE	2017	JSE

CITY OF  
**Grand Junction**  
 COLORADO

PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 Road Striping  
 from I70B to North Ave

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KEYMAP

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REVISION A.2017	DATE 2017	APPROVED BY JES	DATE 2017

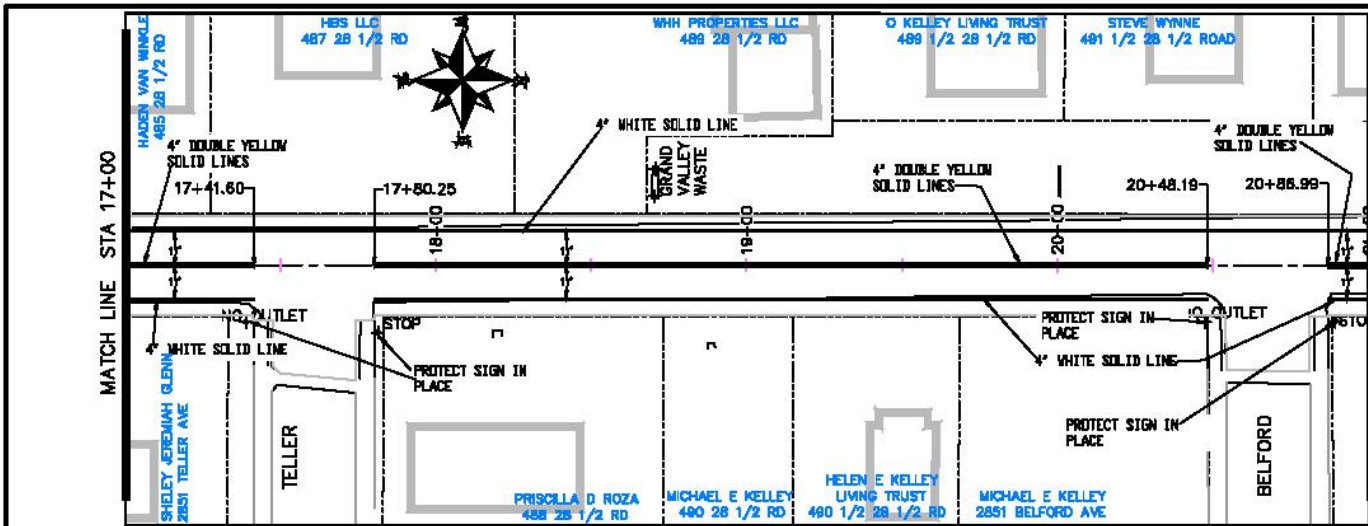
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**PUBLIC WORKS**  
**ENGINEERING DIVISION**

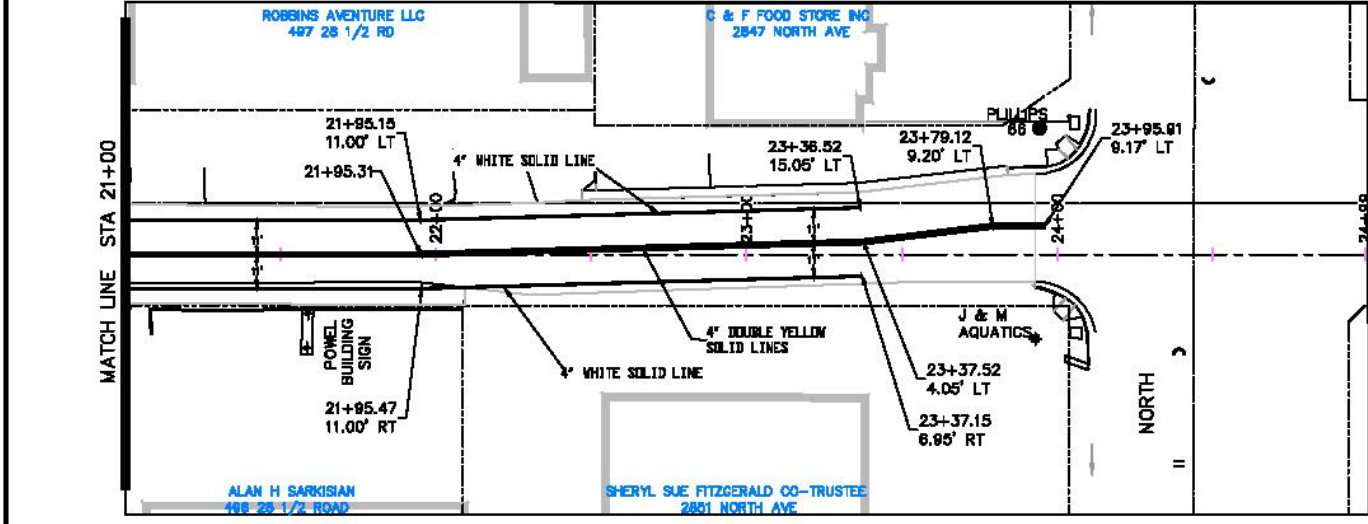
**28 1/2 Road Striping**  
**from I70B to North Ave**

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MATCH LINE STA 17+00

MATCH LINE STA 21+00



MATCH LINE STA 21+00

MATCH LINE STA 24+00



KEYMAP

REVISION	DATE	BY	DATE	DESCRIPTION
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REVISION B	2017	CHECKED BY JLV	DATE 2017	
REVISION C	2017	APPROVED BY JES	DATE 2017	



**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Striping  
from I70B to North Ave**







Purchasing Division

## **ADDENDUM NO. 1**

**DATE:** July 18, 2017  
**FROM:** City of Grand Junction Purchasing Division  
**TO:** All Offerors  
**RE:** 28 ½ Road Sewer and Water Line Replacement and Overlay IFB-4399-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. Are there any CDOT qualification requirements for this project?
  - A. No.
2. **Prebid Meeting Attendance List and Agenda-** See attached.
3. **Updated Construction Plan Set-** See Attached.
4. **Updated Bid Schedule to Include:**
  - a. **Line Item No. 44** – Deleted and Replaced with Aggregate Base Course (Class 6) (10" Thick). Note call out #689 in Plan Set shall be replaced with Class 6 ABC (10" Thick).
  - b. **Line Item No. 58-** Flagging
  - c. **Line Item No. 60** – Geotechnical Testing. Refer to Standard Contract
  - d. Documents for Capital Improvements Construction for further information.
5. **Section 3.3.29 of the Bid Documents has been revised, delete the following:**
  - a. Asphalt Material Transfer Vehicle. The Contractor shall use a materials transfer vehicle in conjunction with belly dump to reduce irregularities in the paving.
6. **Delete Section 3.3.39 of the Bid Documents.**
  - a. Note all striping and appurtenances associated with the project shall be performed by the Contractor. See striping plan in Construction Plan Set for details.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written in a cursive style.

Duane Hoff Jr., Senior Buyer  
City of Grand Junction, Colorado

Solicitation Name:	28 1/2 Road Sewer and Water Line Replacement and Overlay
Solicitation #:	IFB-4399-17-DH
Date:	7/18/2017
Time:	10:00am

# SIGN-IN SHEET



Company Name	Representative Name	Phone	Email
1 Traffic Control Specialists	Maria Slane	970 985 9486	maria.s@flagsandcoyres.com
2 MA CONCRETE CONST	JEFF NIMON	243-3221	MACONCRETE.NIMON@BRESWAN.NAT
3 K+L Construction, Inc	D'Ann Hopkins	970-986-1779	KEVIN@KdCONSTRUCTIONINC.COM
4 GRAND Jct. PIPE	MILK HARRIS	243-4604	MILK.HARRIS@GJPIPE.COM
5 Huddleston-Berry	Jason Collard	970-255-8005	jcollard@huddlestonberry.com
6 HD Supply	Joe Vescio	970-688-7104	Joe.Vescio@HDSupply.com
7 RAIN For RINT	DOUG ROGERS	970-930-0378	DROGERS@RAINFORRINT.COM
8 Grand Junction Winwater	Cathy Kenney	970 596 6139	cbkenney@winwaterworks.com
9 CW construction	Chanz Weaver	970 640-0922	chanz@cwconst.com
10 SORTER	William R. Ogle	970-242-1436	bill@sorterdigs.com
11 Elam Construction	Eric Schmit	970 712 6140	Eric.Schmit@Elamconstruction.com
12 Skyline Contracting	John Chutka	970 434-9121	schutka@skycontract.com
13 United Companies	Miles Downs	970-243-4900	miles.downs@oldcastlematerials.com
14 Western Gravel Constructors	Kameron DeVincentis	970-275-1418	Kameron.devincentis@westerngravel.com

## **Pre-Bid Meeting Agenda**

Date: July 18, 2017  
Project: 28 ½ Road Sewer and Water Line Replacement and Overlay Project  
Location: City Hall Auditorium  
Conducted by: Jerod Timothy, Project Manager

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1. **Introduction, attendance list.**
2. **Pre-Bid Meeting** – Attendance at this pre-bid meeting is mandatory for Contractor's submitting bids to become the general contractor.
3. **Project description** - The project generally consists of the installation of 1,870 lineal feet of waterline, 120 lineal feet of water service line, 2,150 lineal feet of sanitary sewer mainline, 535 lineal feet of sanitary sewer service line, 165 lineal feet storm drain pipe, 8 sanitary sewer manholes, 2 storm drain inlets; approximately 3,250 square yards of asphalt milling (edge mill), approximately 1,150 tons class 6 aggregate base course, and approximately 1,250 tons hot mix asphalt.
4. **Project documents**
  - a. City of Grand Junction Standard Contract Documents, July, 2010 Edition
  - b. Project Bid Documents
  - c. Project Plan Set
  - d. CDOT Standard Specifications for Road and Bridge Construction.

Plans and Bid Documents are available for review or download on the City's Public Works Engineering web page.

5. **Bid submittal procedures**
  - a. Contractor's Bid Form
  - b. Price Bid Schedule
  - c. Attendance at bid opening is optional
  - d. Accepting Electronic Responses **Only** submitted through the Rocky Mountain E-Purchasing System (RMEPS).

**6. Insurance and bonding requirements**

- a. 5% bid bond
- b. Performance and payment bonds (100%)
- c. Insurance in General Conditions

**7. Addenda**

Addendum No. 1 will be issued following this meeting and shall include the following:

- Pre-Bid meeting agenda and attendance list along with all notes and questions that are addressed during meeting.
- Updated **Construction Plan Set** to include plan sheet numbers.
- Updated **Bid Schedule** to include:
  - **Line Item No. 44** – Deleted and Replaced with Aggregate Base Course (Class 6) (10" Thick). Note call out #689 in Plan Set shall be replaced with 10" of Class 6 ABC.
  - **Line Item No. 59** - Geotechnical Testing. Refer to the Standard Contract Documents for Capital Improvements Construction for further information.
- **Section 3.3.29 of the Bid Documents has been revised**, delete the following:
  - **Asphalt Material Transfer Vehicle**: The Contractor shall use a materials transfer vehicle in conjunction with belly dump to reduce irregularities in the paving.

It's the bidder's responsibility to make sure they have acknowledged all addendums issued for this project. The bidder can find addendums on the City of Grand Junction Engineering website.

**8. Project specific issues**

- a. **Hours of Operations**: The hours of operations for this Project are as follows:  
Monday – Friday, 7:00 a.m. to 5:00 p.m.
- b. **Project Start Date**: The project is scheduled begin on Monday, August 28, 2017
- c. **Time of Completion**: The scheduled time of completion for the project is 68 Calendar days from the starting date specified on the Notice to Proceed.

- d. **Special Equipment:** The paver shall be equipped with a 40' ski on any street segment longer than 600 lineal feet of continuous pavement. Auger extensions shall be used when the screed is extended to a width greater than two feet beyond the auger. The auger extensions shall be installed to ensure a constant head of material.
  - e. **Uranium Mill Tailings:** It is anticipated that radioactive mill tailings will be encountered on this Project. The Contractor shall deliver material to City Shops and place in designated clarifier.
  - f. **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 incidental to those items, and will be included in the cost of those items.
9. **Site Visit** - Suggested to all prospective bidders to visit the locations to see what obstacles they may encounter.

**10. Questions and Answers:**

In the Bid Schedule there is no line item for flagging, is that to be considered incidental or was it missed? A line item for striping is to be adding to the Bid Schedule for flagging.

# Bid Schedule: 28 1/2 Road Sewer and Water Line Replacement and Overlay

## Addendum No. 1

**Contractor:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.4	Cap top half of sewer in concrete per std detail GU-04	16.	EA	\$ _____	\$ _____
2	108.2	Water Main (6") (C-900 PVC, DR-18) (Includes cost of connection to existing pipe)	70.	LF	\$ _____	\$ _____
3	108.2	Water Main (8") (C-900 PVC, DR-18) (Includes cost of connection to existing pipe)	1,800.	LF	\$ _____	\$ _____
4	108.2	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.	535.	LF	\$ _____	\$ _____
5	108.2	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.	1,200.	LF	\$ _____	\$ _____
6	108.2	102.9/108.2 - 10" 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.	950.	LF	\$ _____	\$ _____
7	108.2	8" Storm Drain Pipe (PVC)	165.	LF	\$ _____	\$ _____
8	108.3	Gate Valve (6")	4.	EA	\$ _____	\$ _____
9	108.3	Gate Valve (8")	5.	EA	\$ _____	\$ _____
10	108.3	Tee (8" x 6")	4.	EA	\$ _____	\$ _____
11	108.3	Tee (8" x 8")	3.	EA	\$ _____	\$ _____
12	108.3	Elbow (6" x 45deg)	3.	EA	\$ _____	\$ _____
13	108.3	Elbow (8" x 45deg)	5.	EA	\$ _____	\$ _____
14	108.3	End Cap/Plug	5.	EA	\$ _____	\$ _____
15	108.3	Reducer (8" x 6")	4.	EA	\$ _____	\$ _____
16	108.3	Fire Hydrant	3.	EA	\$ _____	\$ _____
17	108.3	4" Sewer Service Tap ( Full Body Wye w/ Street 45°)	30.	EA	\$ _____	\$ _____
18	108.4	3/4" Tapping Saddle	22.	EA	\$ _____	\$ _____
19	108.4	3/4" Corporation Stop	22.	EA	\$ _____	\$ _____

# Bid Schedule: 28 1/2 Road Sewer and Water Line Replacement and Overlay

## Addendum No. 1

**Contractor:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
20	108.4	3/4" Water Service Line (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	110.	LF	\$ _____	\$ _____
21	108.4	1" Tapping Saddle	1.	EA	\$ _____	\$ _____
22	108.4	1" Corporation Stop	1.	EA	\$ _____	\$ _____
23	108.4	1" Water Service Line (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	10.	LF	\$ _____	\$ _____
24	108.5	48" Sanitary Sewer MH (Drop)	1.	EA	\$ _____	\$ _____
25	108.5	48" Sanitary Sewer MH	7.	EA	\$ _____	\$ _____
26	108.5	48" Sanitary Sewer MH Barrel Section	20.	LF	\$ _____	\$ _____
27	108.5	Connect to Existing Manhole (storm)	1.	EA	\$ _____	\$ _____
28	108.6	Single Storm Drain Inlet (large area Inlet)	2.	EA	\$ _____	\$ _____
29	202	Uranium Mill Tailings Removal	130.	CY	\$ _____	\$ _____
30	202	Removal of Asphalt Mat (Edge Mill) (1" to 2")	600.	SY	\$ _____	\$ _____
31	202	Removal of Asphalt Mat (Edge Mill) (0" to 2")	850.	SY	\$ _____	\$ _____
32	202	Removal of Asphalt Mat (Edge Mill) (0" to 1")	1,800.	SY	\$ _____	\$ _____
33	202	Removal of Asphalt Mat (Full Depth)	2,785.	SY	\$ _____	\$ _____
34	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-pans curb ramps, intersection corners, aprons, and underlying street concrete)	20.	SY	\$ _____	\$ _____
35	202	Removal of Water Valve	2.	EA	\$ _____	\$ _____
36	202	Abandon Water Valve	5.	EA	\$ _____	\$ _____
37	202	Removal of Pipe (12" and smaller)	2,770.	LF	\$ _____	\$ _____
38	202	Removal of Manhole	8.	EA	\$ _____	\$ _____
39	203	Potholing	40.	HR	\$ _____	\$ _____
40	213	Washed Rock Surface Course for Gravel Driveways. Match Existing Type. Thickness is 2" min. and 3" max.	7.	CY	\$ _____	\$ _____
41	304	Subgrade Stabilization (Class 3 Aggregate Base Course) BF-2 (2 of 3)	152.	Tons	\$ _____	\$ _____



# Bid Schedule: 28 1/2 Road Sewer and Water Line Replacement and Overlay

## Addendum No. 1

**Contractor:** \_\_\_\_\_

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
42	304	Aggregate Base Course (Class 6)(8" thick) )(Water Trench (663))	320.	SY	\$ _____	\$ _____
43	304	Aggregate Base Course (Class 6)(8" thick) )(San Sew Trench (663))	1,520.	SY	\$ _____	\$ _____
44	304	Aggregate Base Course (Class 6)(10" thick) (689)	1,060.	SY	\$ _____	\$ _____
45	401	Hot Mix Asphalt (2" Thick) (Grading SX-75)(Binder 64-22)(Overlay entire width 28.5 Road)	900.	Tons	\$ _____	\$ _____
46	401	Hot Mix Asphalt (1" Thick) (Grading SX-75)(Binder 64-22)(Bottom mat in widening areas only to include subgrade prep.))	50.	Tons	\$ _____	\$ _____
47	401	Hot Mix Asphalt (3" Thick) (Grading SX-75)(Water Trench (681))	330.	SY	\$ _____	\$ _____
48	401	Hot Mix Asphalt (3" Thick) (Grading SX-75)(San Sew Trench (681))	1,515.	SY	\$ _____	\$ _____
49	608	Concrete Drainage Pan	6.	LF	\$ _____	\$ _____
50	608	Monolithic Curb Gutter and Sidewalk (6' Wide)	12.	SY	\$ _____	\$ _____
51	608	Concrete Driveway (8" Thick)	4.	SY	\$ _____	\$ _____
52	620	Sanitary Facility	1.	lump	\$ _____	\$ _____
53	625	Construction Surveying Complete in Place	1.	lump	\$ _____	\$ _____
54	626	Mobilization	1.	lump	\$ _____	\$ _____
55	629	Reference and Reset Survey	1.	EA	\$ _____	\$ _____
56	630	Traffic Control Plan	1.	lump	\$ _____	\$ _____
57	630	Traffic Control (Complete In Place)	1.	lump	\$ _____	\$ _____
58	630	Flagging	160.	Hour	\$ _____	\$ _____
59	SP - 1	Striping (Per Plan)	1.	lump	\$ _____	\$ _____
60	SP-2	Geotechnical Testing - Refer to STANDARD CONTRACT DOCUMENTS FOR CAPITAL IMPROVEMENTS, PAGES RB 1 THROUGH 4.	1.	lump	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ 37,000.00

**Bid Amount:** \$ \_\_\_\_\_

**Bid Amount:** \_\_\_\_\_ **dollars**

# 28 1/2 ROAD - SEWER LINE REPLACEMENT WATER LINE REPLACEMENT AND PAVING PLAN June, 2017

- 1 Cover Sheet
- 2 Standard Abbreviations, Legend, And Symbols
- 3 Project Control Plan
- 4-9 Sanitary Sewer Plan and Profile
- 10-15 Water Line Plan and Profile
- 16 Storm Drain Plan and Profile
- 17-19 Typical Cross Sections
- 20-22 Roadway Milling Plan
- 23-27 Roadway Paving Plan and Profile
- 28-38 Roadway Cross Sections
- 39-41 Roadway Striping
- 42 Storm Water Management Plan

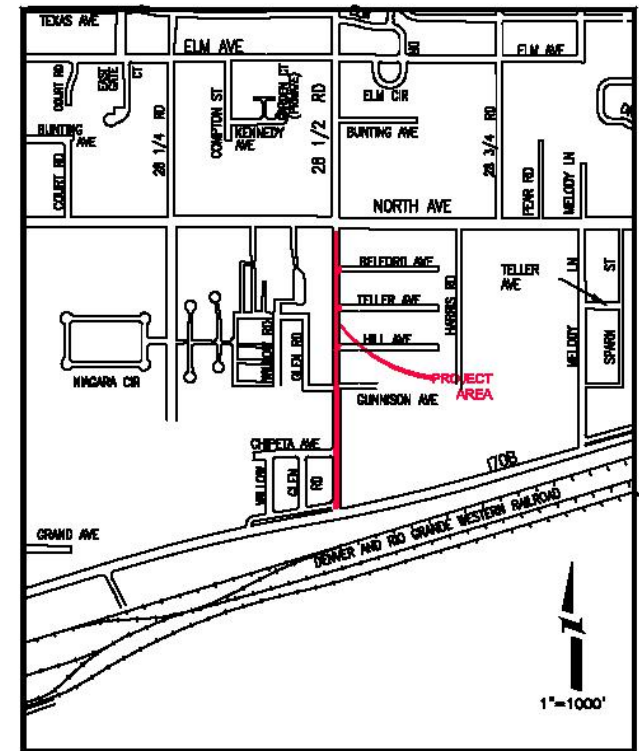


Know what's below.  
Call before you dig.

NOTICE: NOISEY AFFECTED UTILITY VENDOR 48 HOURS  
BEFORE TO EXAMINATIONS THAT WILL EXPOSE UTILITY  
LINES. THE COVER SHEET WILL HAVE A LISTING OF  
UTILITY VENDORS AND TELEPHONE NUMBERS.

#### 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	230 N. 9th STREET	230 N. 9th STREET	GRAND JCT., CO 81501	(970) 241-1308	(970) 240-1082
GRAND JUNCTION, CITY OF	LEE COOPER	PROJECT ENGINEER	SAWITARY ENGINEER	230 N. 9th STREET	230 N. 9th STREET	GRAND JCT., CO 81501	(970) 236-4180	(970) 236-4282
GRAND VALLEY IRRIGATION CO.	PHIL BOITRANO		IRRIGATION	888 24 ROAD	888 24 ROAD	GRAND JCT., CO 81508	(970) 242-2782	
CHARTER	JOEY VALDEZ	MANAGER	CABLE TV	3002 FOREMONT CIRCLE	3002 FOREMONT CIRCLE	GRAND JCT., CO 81504	(970) 240-8700	(970) 240-8803
U.S. NEWS/STREAM	DAVID JOHNSON	ENGINEER	TELEPHONE	2024 BLUCHMANN AVE	2024 BLUCHMANN AVE	GRAND JCT., CO 81504	(970) 244-4311	(970) 240-4348
LIFE WATER	JUSTIN BATER	SUPERVISOR	WATER	PO BOX 400		GRAND JCT., CO 81502	(970) 242-7401	(970) 242-8100
WEL	BOE SERRANO	UNIT MANAGER	Gas, Electric	2330 BLUCHMANN AVE	2330 BLUCHMANN AVE	GRAND JCT., CO 81508	(970) 244-2308	(970) 244-2341



VICINITY MAP

REVISION	DESCRIPTION	DATE	BY	CHECKED
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REVISION B		2017	JES	JES
REVISION C		2017	JES	JES
REVISION D		2017	JES	JES

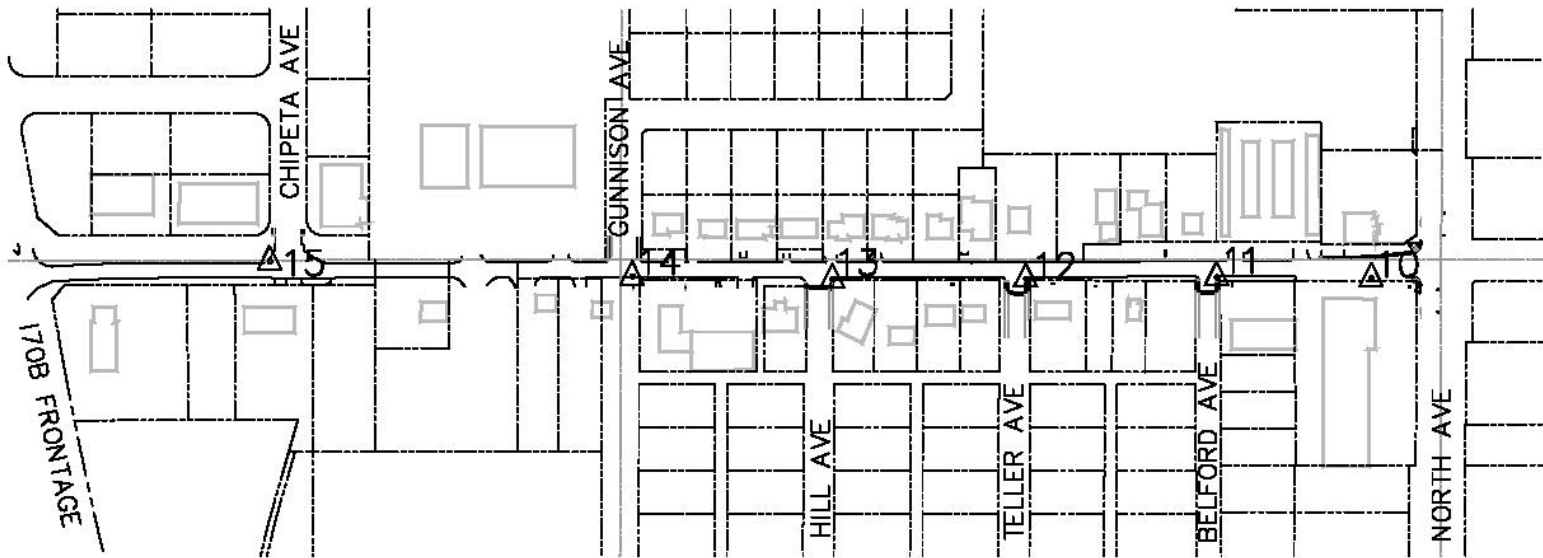


PUBLIC WORKS  
ENGINEERING DIVISION

COVER SHEET

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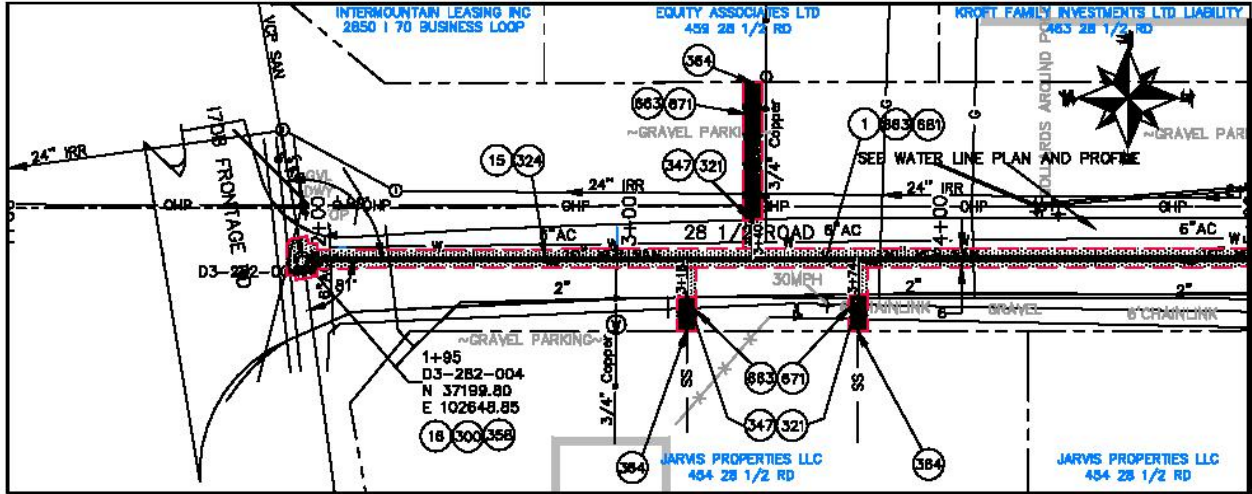
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**PUBLIC WORKS  
ENGINEERING DIVISION**

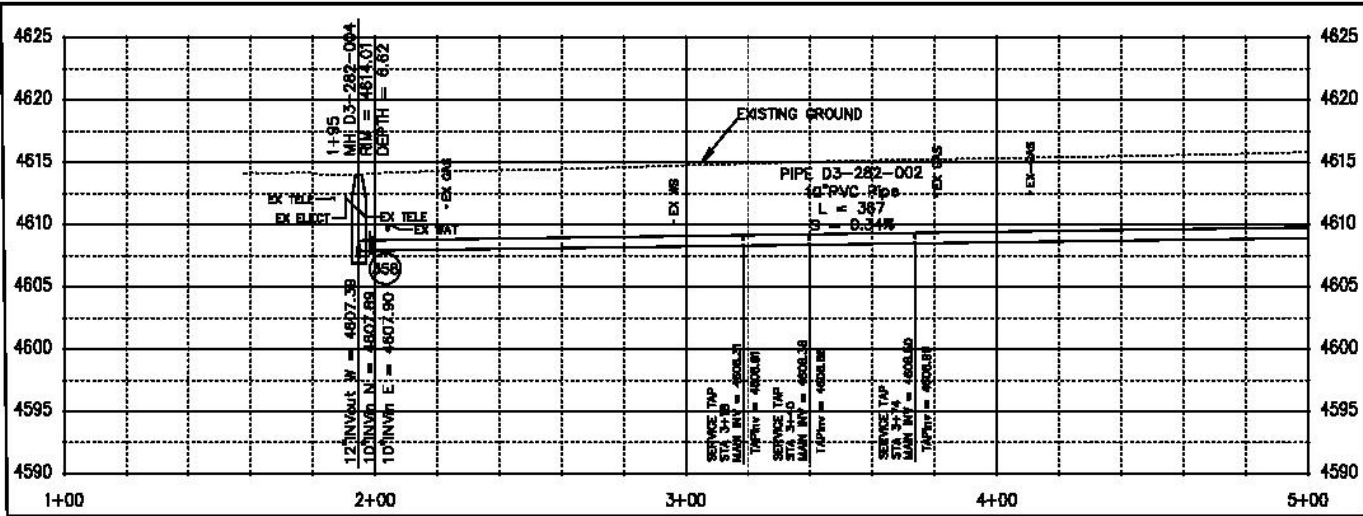
**28 1/2 Road  
Control Plan**



**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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" LD.). 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 103.18 EARTH BACKFILL MATERIAL.
- 324 102.9/108.2 - 10" GRAVITY SEWER PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-08).
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)

MATCH LINE STA 5+00



SEE PAVING PLANS FOR PAVING DATA



KEYMAP

REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE
REVISION A	ISSUE	2017	JES	JES	2017
REVISION B	ISSUE	2017	JES	JES	2017
REVISION C	ISSUE	2017	JES	JES	2017
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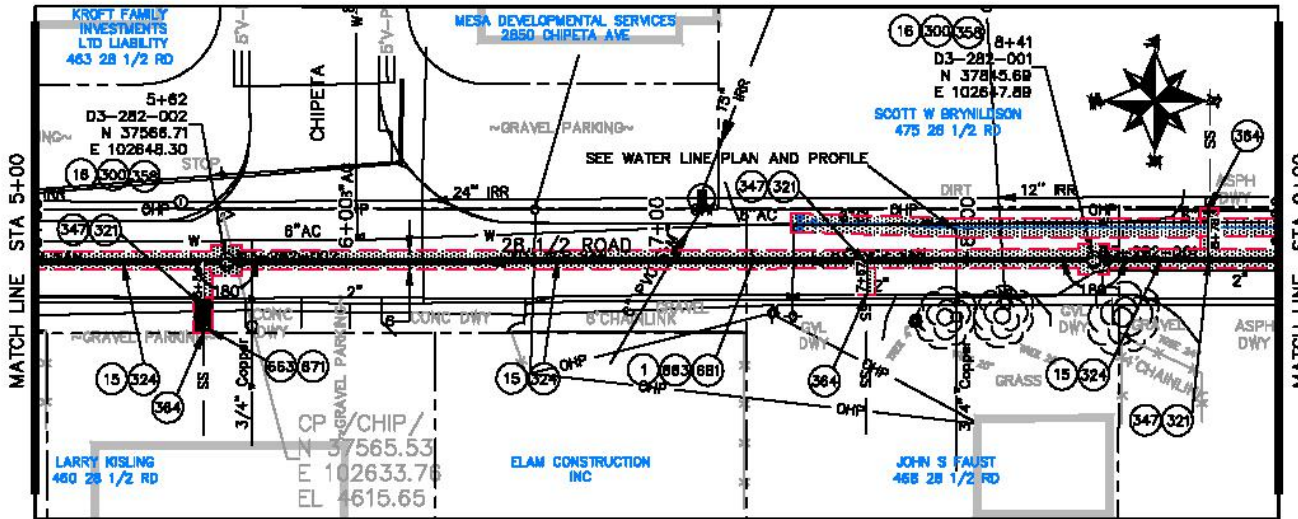


**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Sanitary Sewer  
from 170B to North Ave**

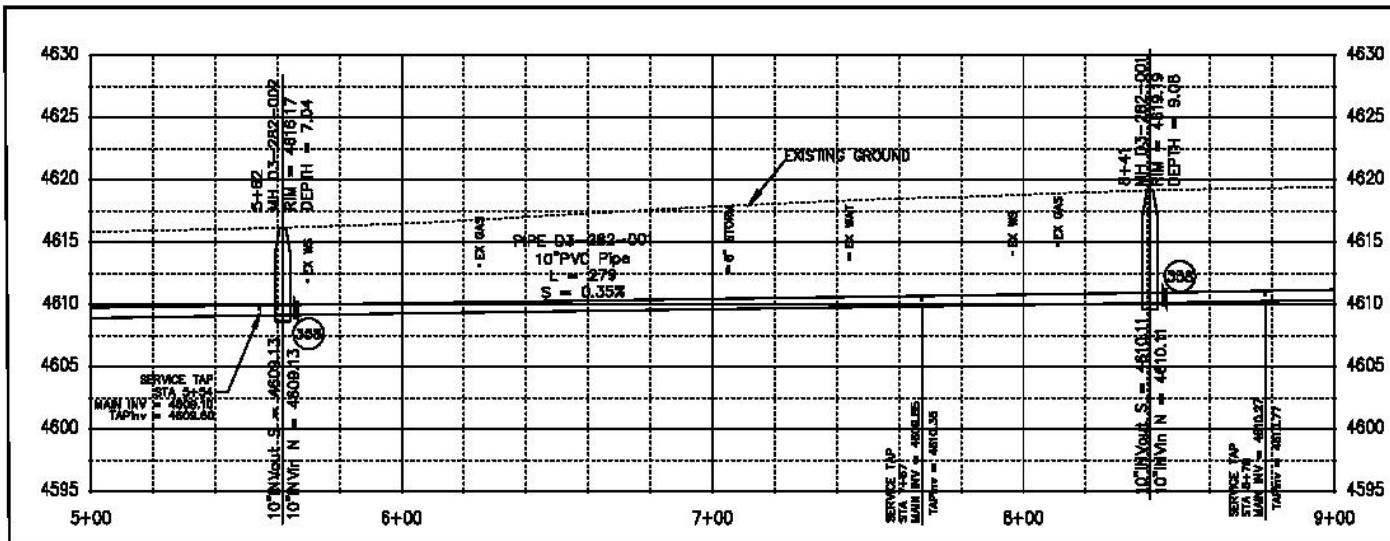
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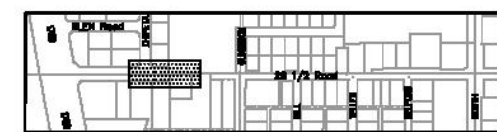


**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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 - 10" 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 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-08).
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS B) (8" THICK)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 881 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)



SEE PAVING PLANS FOR PAVING DATA



KEYMAP

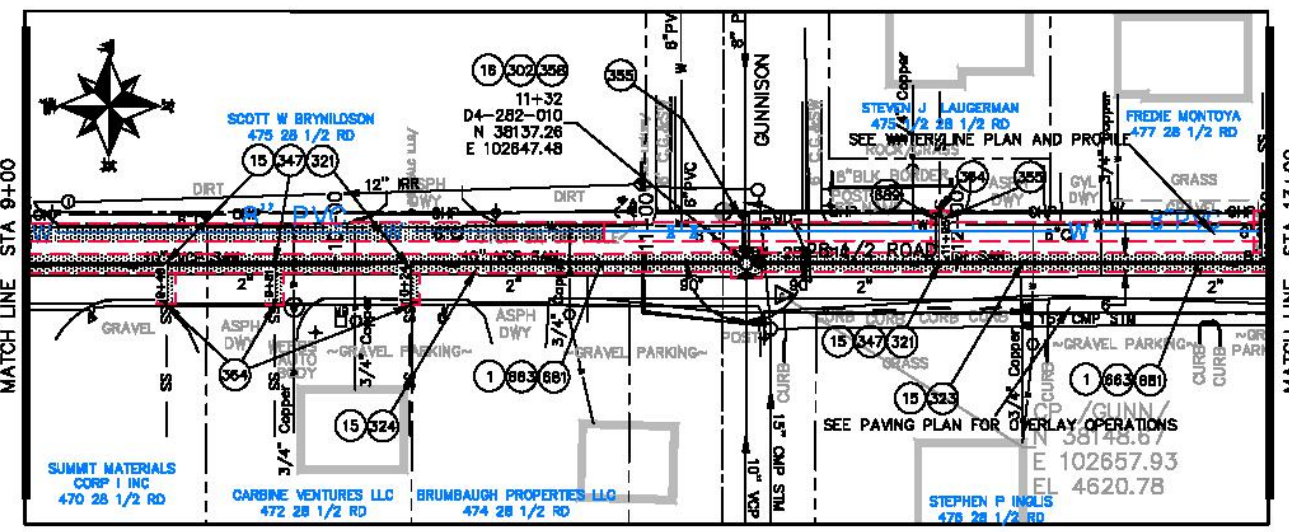
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REVISION C	ISSUE	2017	JES	JES	2017
REVISION D	ISSUE	2017	JES	JES	2017



**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Sanitary Sewer  
from I70B to North Ave**

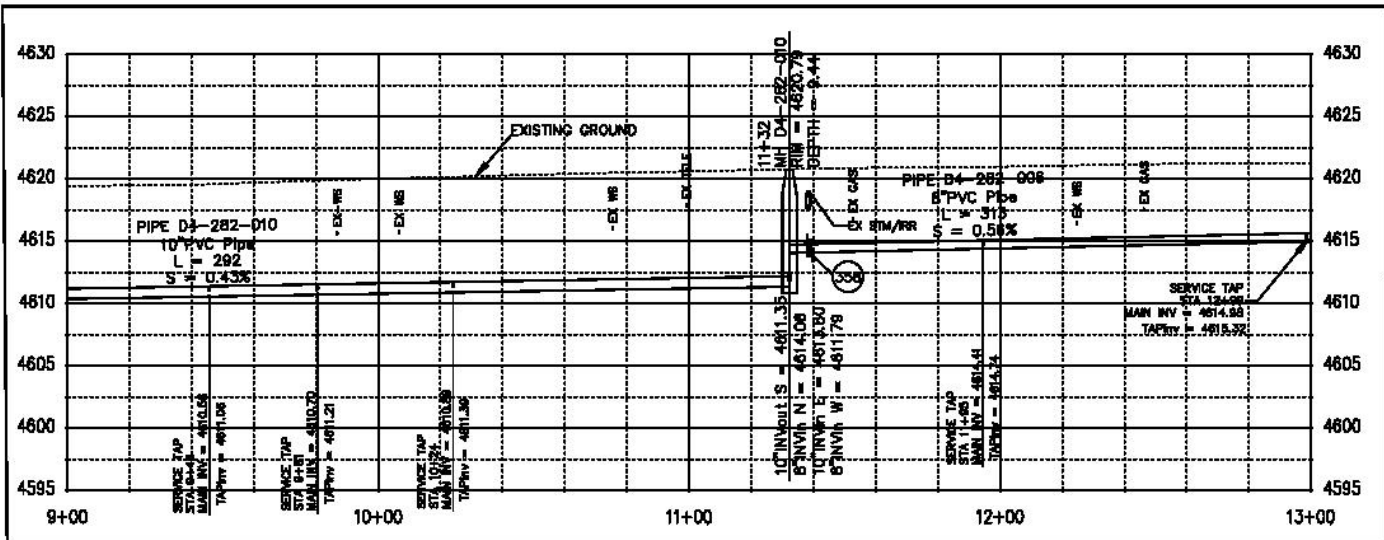
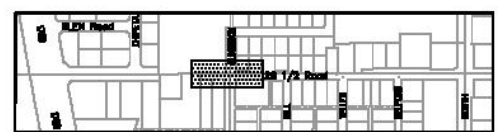
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**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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).
- 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.
- 324 102.9/108.2 - 10" 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 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 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
- 683 304 - AGGREGATE BASE COURSE (CLASS 8) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)

SEE PAVING PLANS FOR PAVING DATA



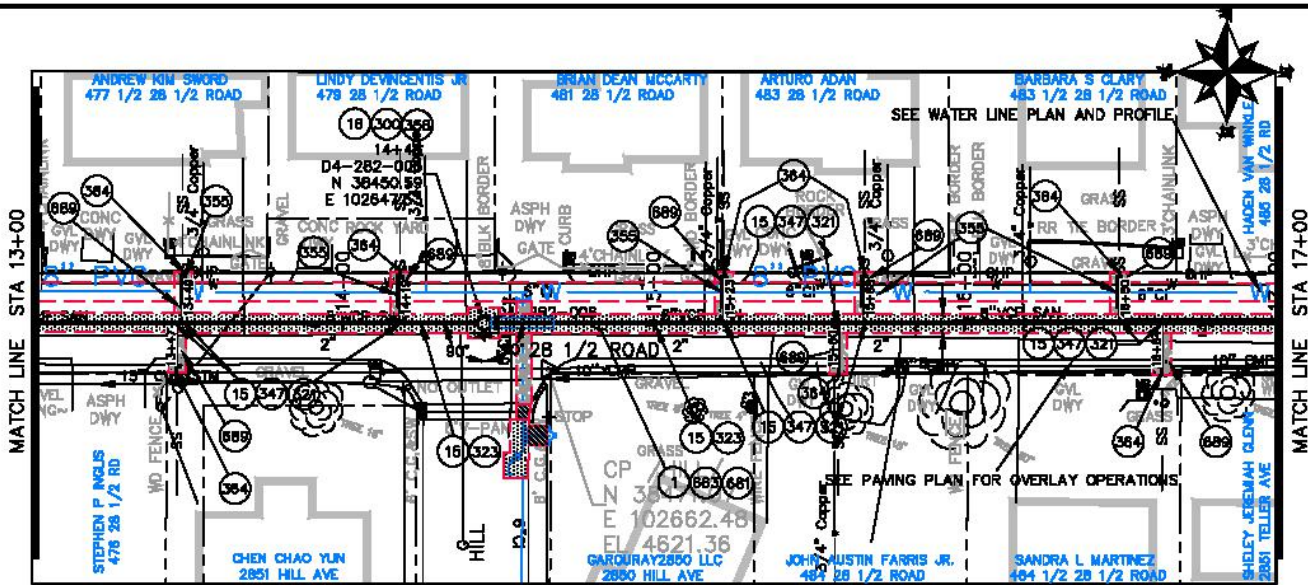
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**PUBLIC WORKS  
ENGINEERING DIVISION**

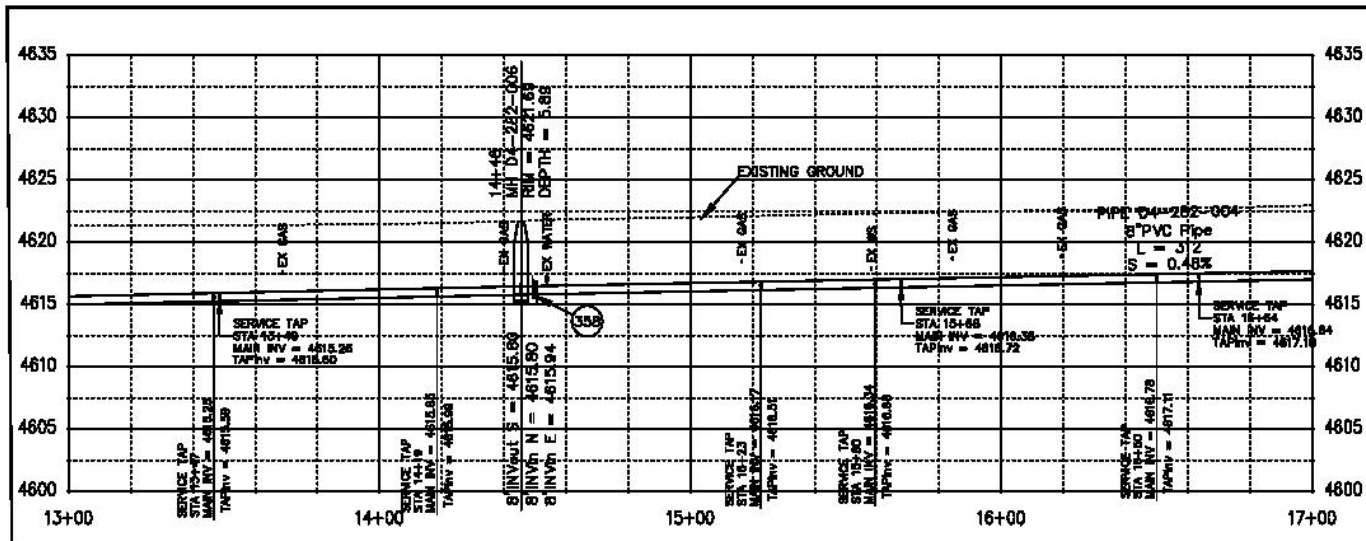
**28 1/2 Road Sanitary Sewer  
from I70B to North Ave**

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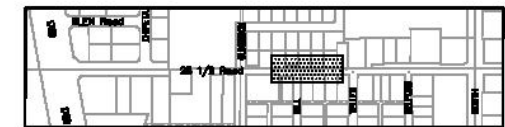


**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 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.
- 323 102.9/108.3 - 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 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 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
- 683 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 680 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)



SEE PAVING PLANS FOR PAVING DATA



KEYMAP

REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE
REVISION A	ISSUE	2017	JES	JES	2017
REVISION B	ISSUE	2017	JES	JES	2017
REVISION C	ISSUE	2017	JAY	JAY	2017
REVISION D	ISSUE	2017	JES	JES	2017

**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**28 1/2 Road Sanitary Sewer**  
**from I70B to North Ave**



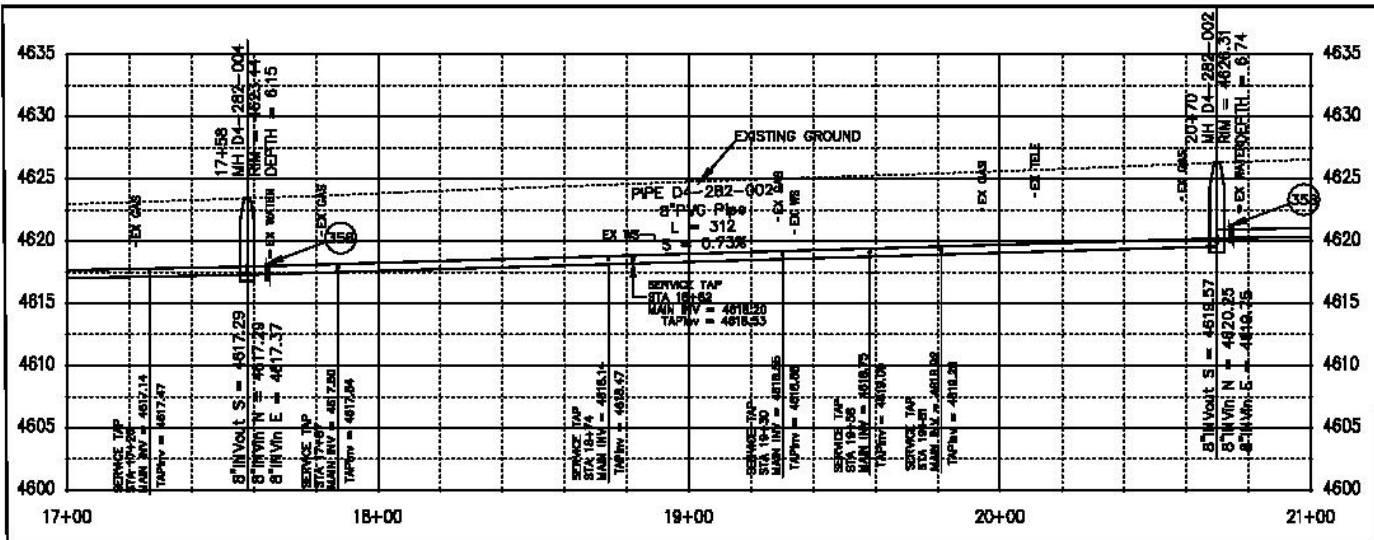
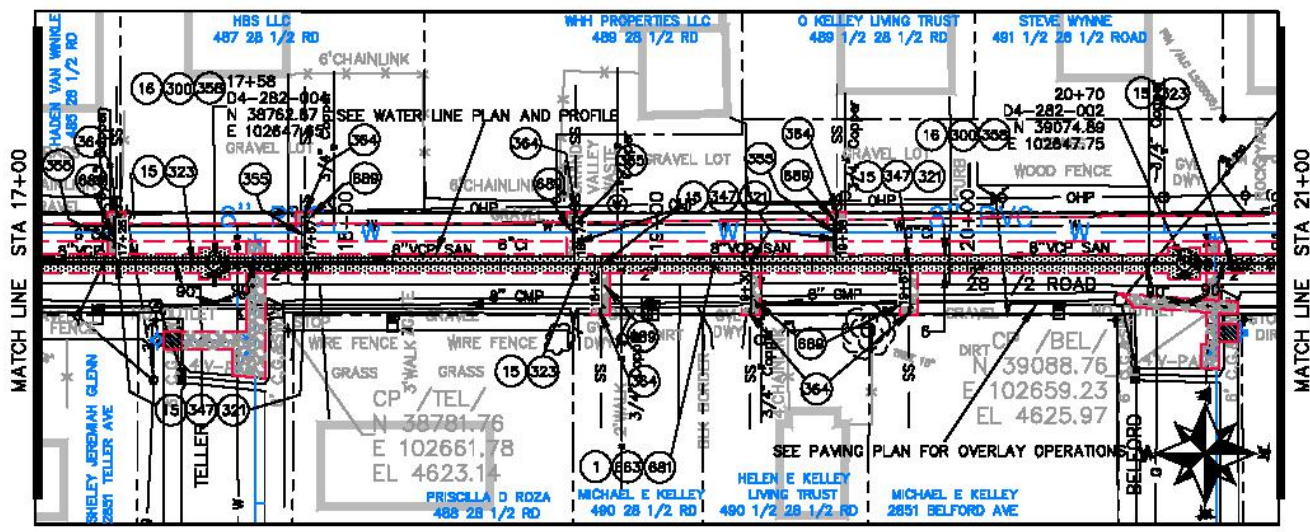
**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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 - 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.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 358 103 - CLAY CUT-OFF WALL (INCIDENTAL TO SEWER INSTALLATION PAY ITEM)
- 384 CONNECT TO EXISTING SEWER PIPE. THE CONTRACT PRICE FOR SEWER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 661 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 669 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)

SEE PAVING PLANS FOR PAVING DATA



KEYMAP



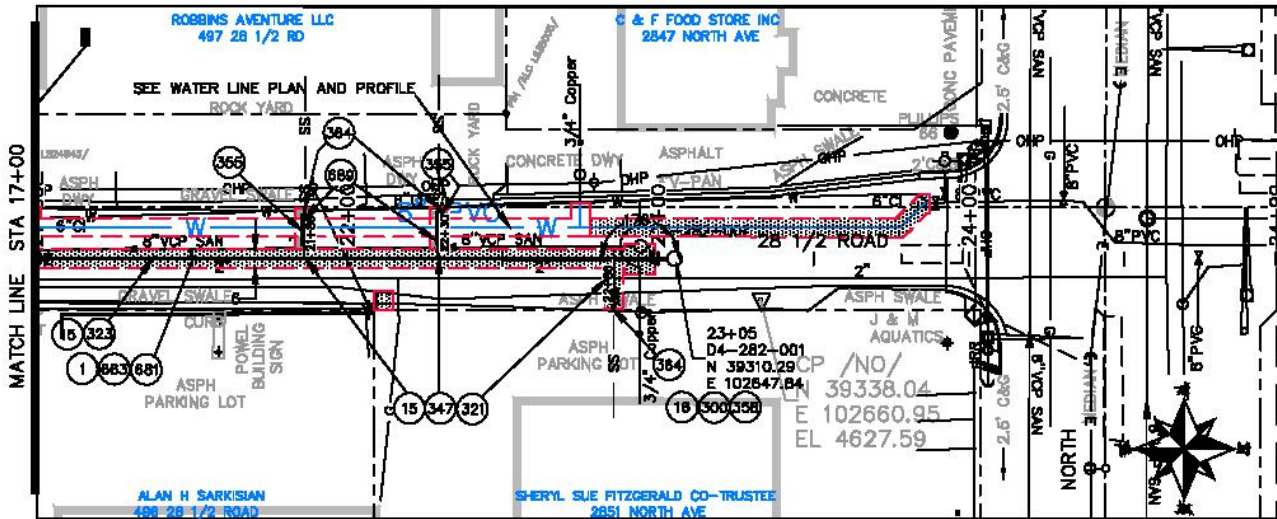
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REVISION A.002		2017	JES	JES	2017
REVISION A.003		2017	JV	JV	2017
REVISION A.004		2017	JV	JV	2017



**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Sanitary Sewer  
from 170B to North Ave**

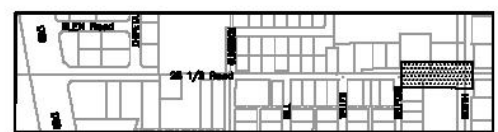
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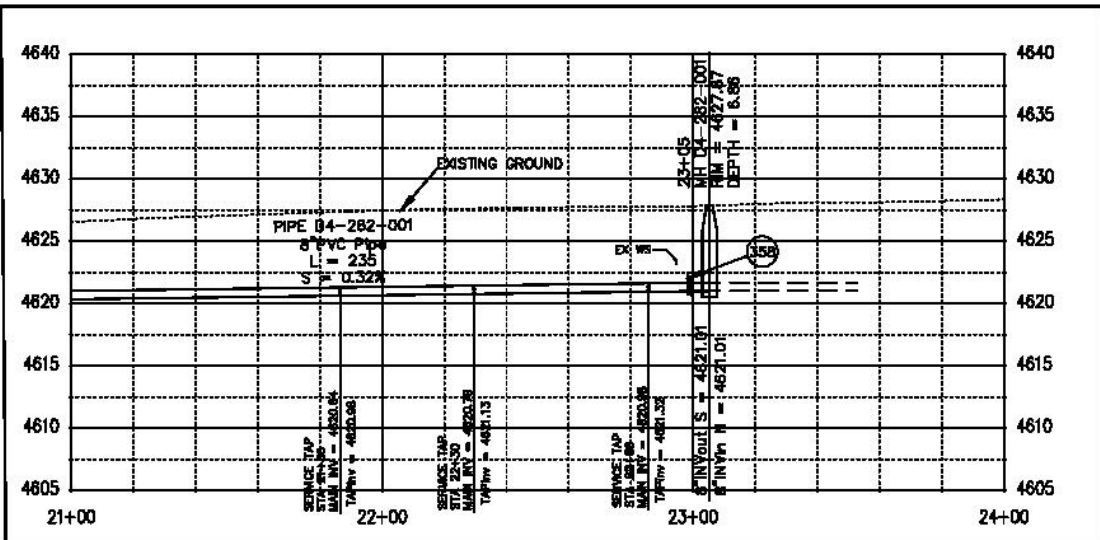
**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN.
- 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 103.18 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 103.18 EARTH BACKFILL MATERIAL.
- 347 102.9/108.3 - 4" SEWER SERVICE TAP. (MAIN SIZE AS SHOWN) FULL BODY WYE (SEE STD. DETAIL S-06).
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 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
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 84-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)

SEE PAVING PLANS FOR PAVING DATA



KEYMAP



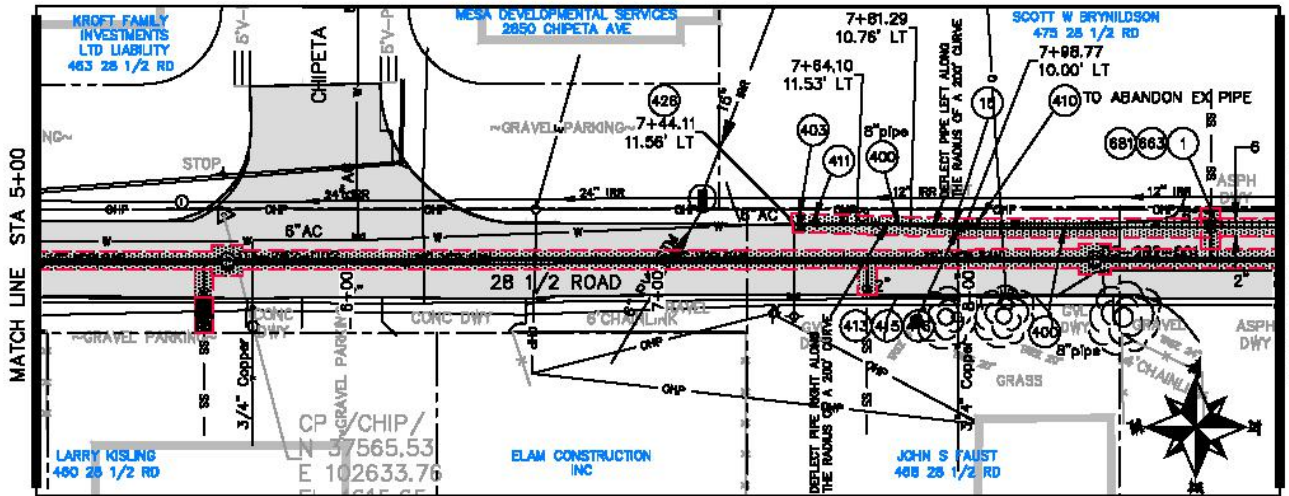
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**PUBLIC WORKS  
ENGINEERING DIVISION**

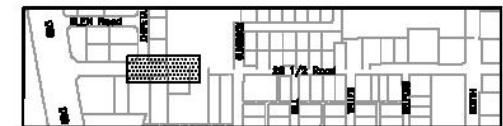
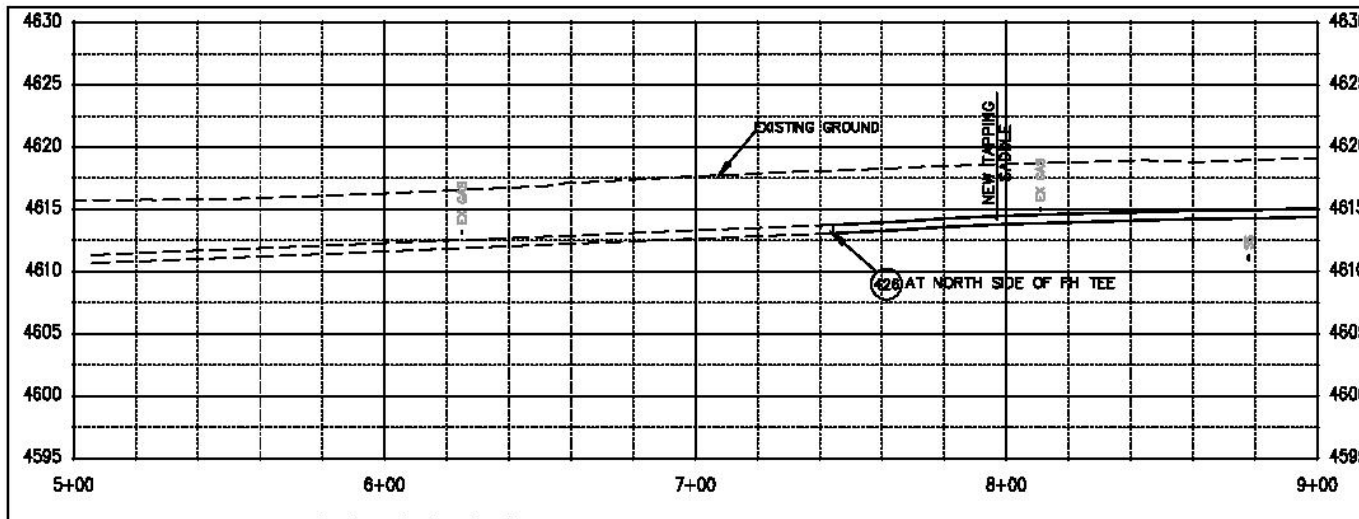
**28 1/2 Road Sanitary Sewer  
from I70B to North Ave**

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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)
- 22 202 - REMOVE EXISTING FIRE HYDRANT AND RETURN TO CITY SHOPS.
- 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 103.18 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 410 END CAP/PLUG (SIZE AS SHOWN)
- 411 102.8/108.3 - REDUCER (SIZE AS SHOWN)
- 412 102.8a/108.3 - FIRE HYDRANT
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 428 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 663 304 - AGGREGATE BASE COURSE (CLASS B) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)



KEYMAP

REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE
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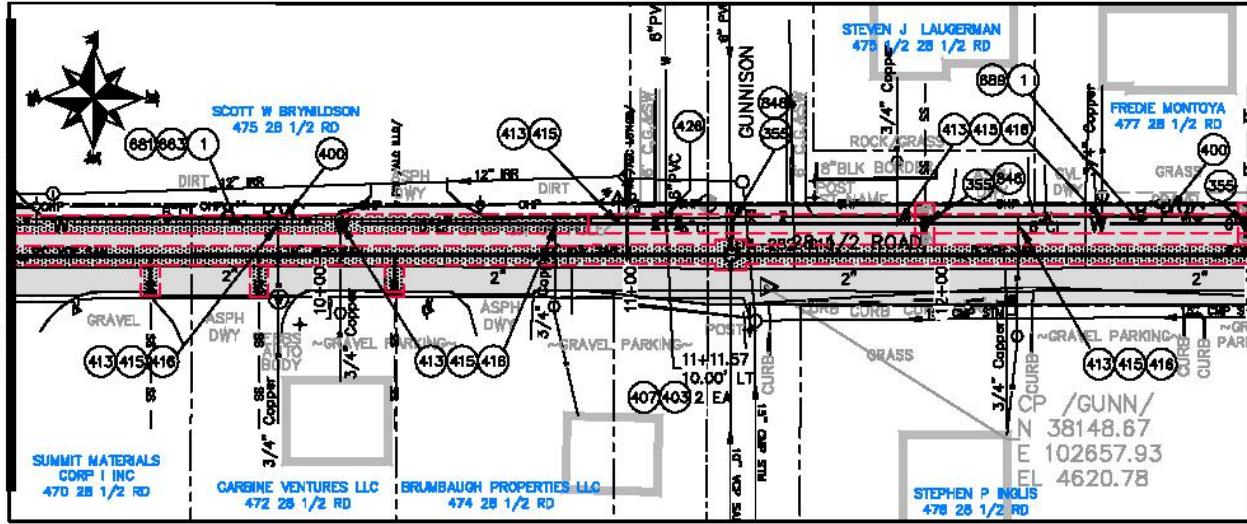
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PLAN & PROFILE	2017



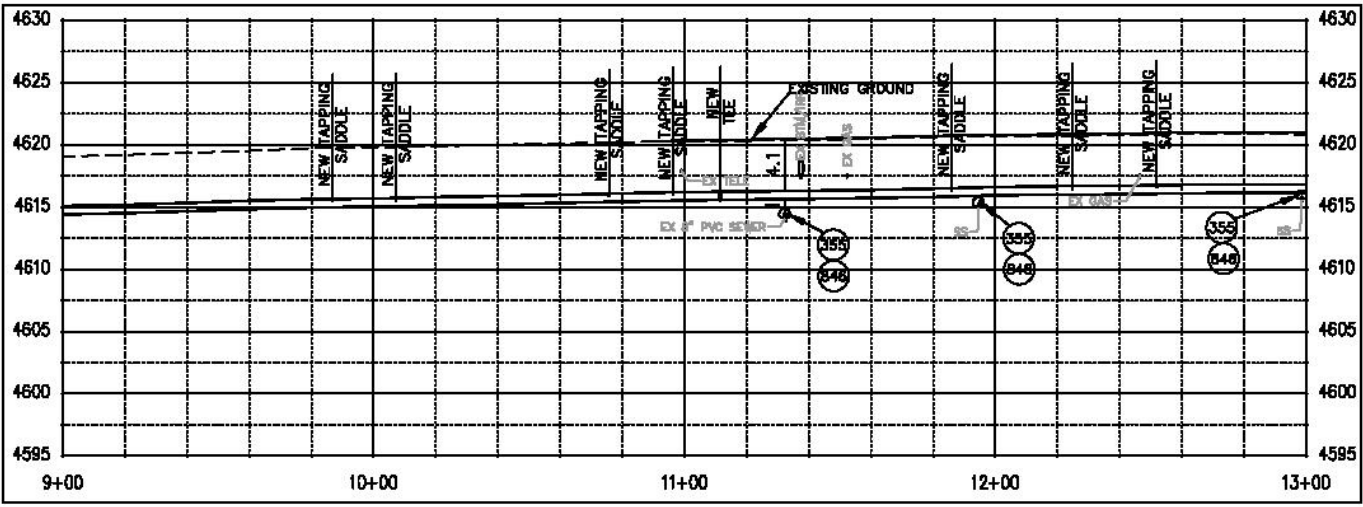
**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Water Line Plan  
from 170B to North and Hill, Teller, & Belford West**

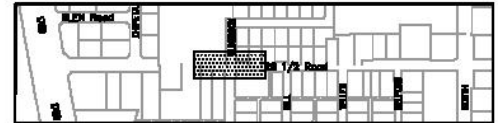
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- CONSTRUCTION NOTES
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER STD. DETAIL CU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
  - 400 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL.
  - 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
  - 407 102.8/108.3 - TEE (SIZE AS SHOWN)
  - 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
  - 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
  - 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
  - 428 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
  - 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
  - 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 84-22) (TWO 1 1/2" LIFTS)
  - 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
  - 646 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.



SEE PAVING PLANS FOR PAVING DATA



KEYMAP

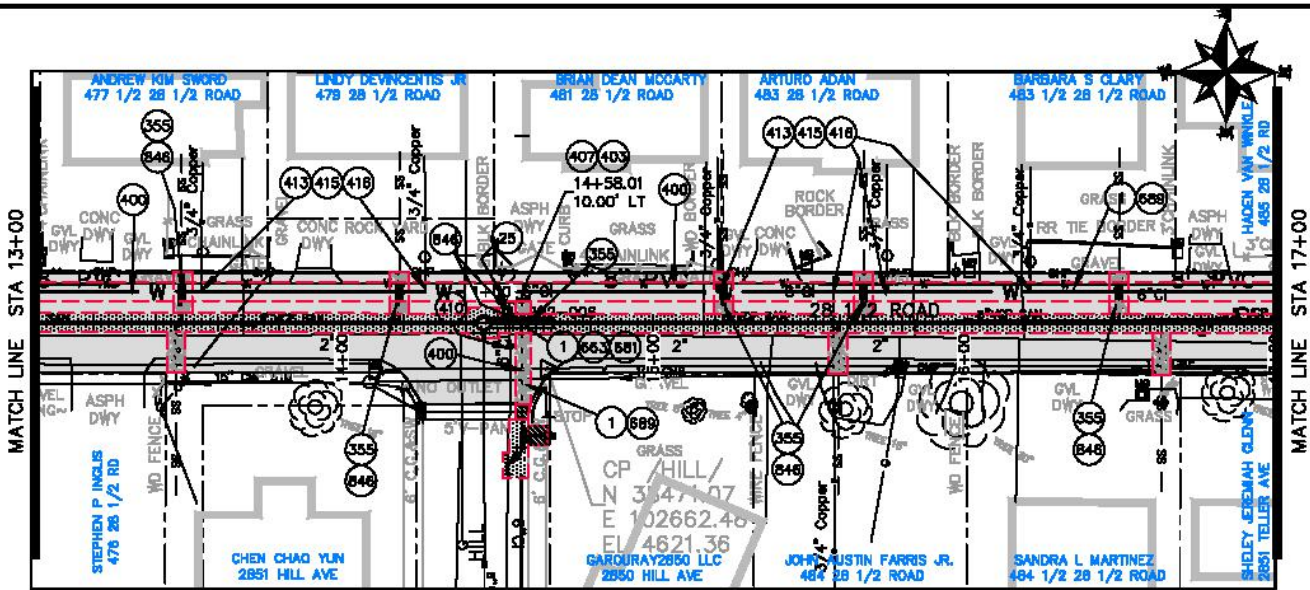
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PUBLIC WORKS  
ENGINEERING DIVISION

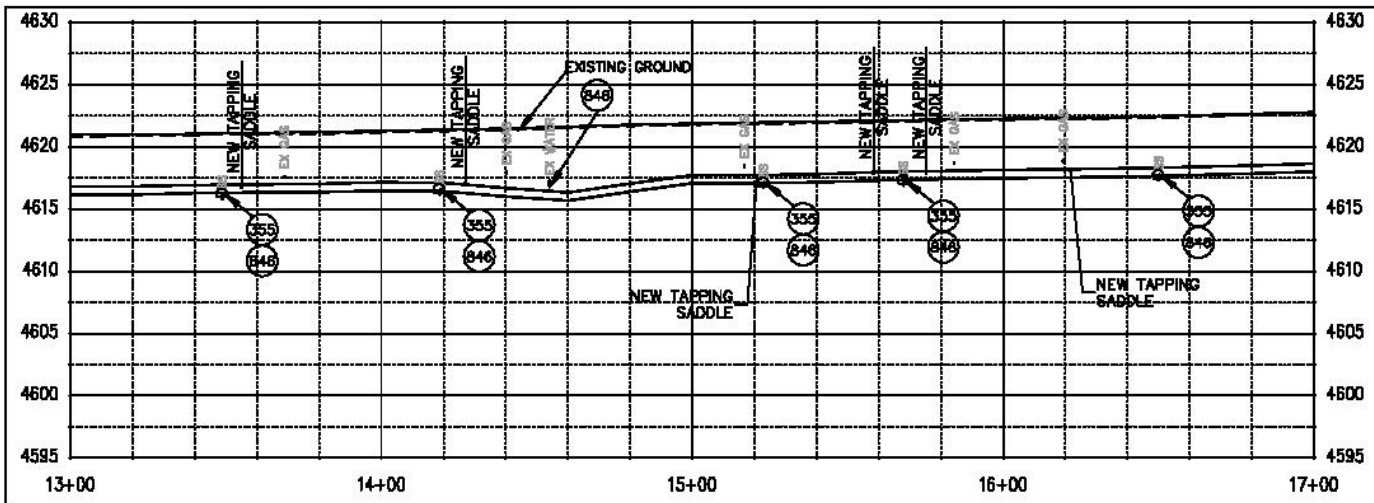
28 1/2 Road Water Line Plan  
from I70B to North and Hill, Teller, & Belford West

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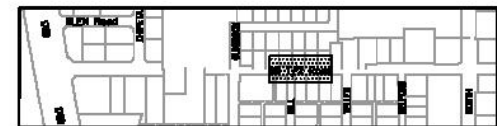


**CONSTRUCTION NOTES**

- 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)
- 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL.
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 400 102.7/108.2 - WATER MAIN PIPE (C-800 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL.
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 410 END CAP/PLUG (SIZE AS SHOWN)
- 413 102.7c/108.4 - WATER SERVICE LINE (TYPE K COPPER) (SIZE AS SHOWN ON PLAN)
- 415 102.8k/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8j/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 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.



SEE PAVING PLANS FOR PAVING DATA



KEYMAP

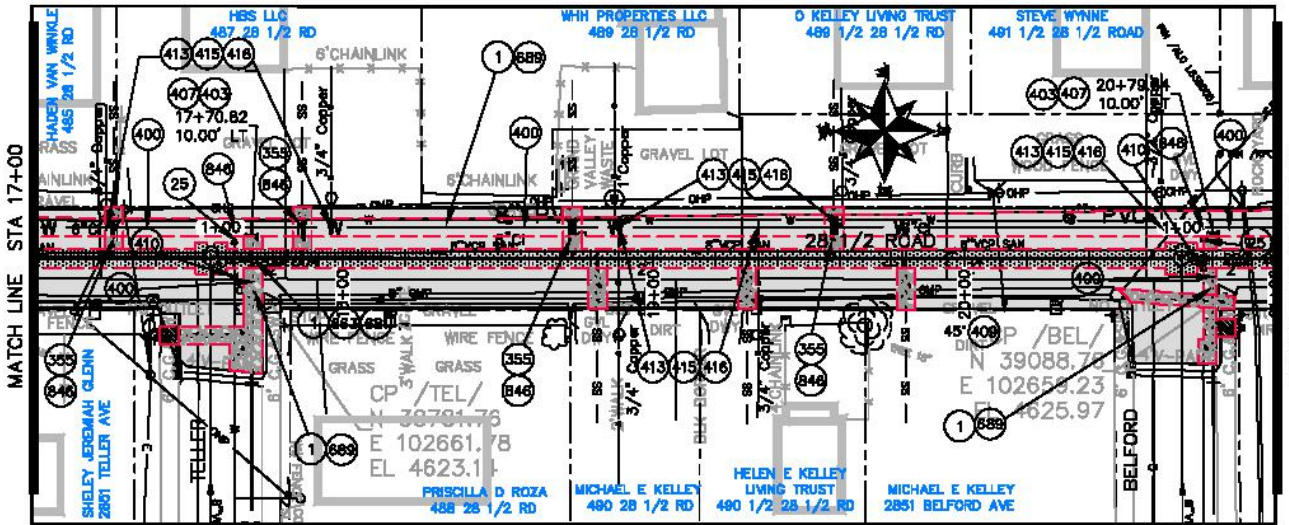
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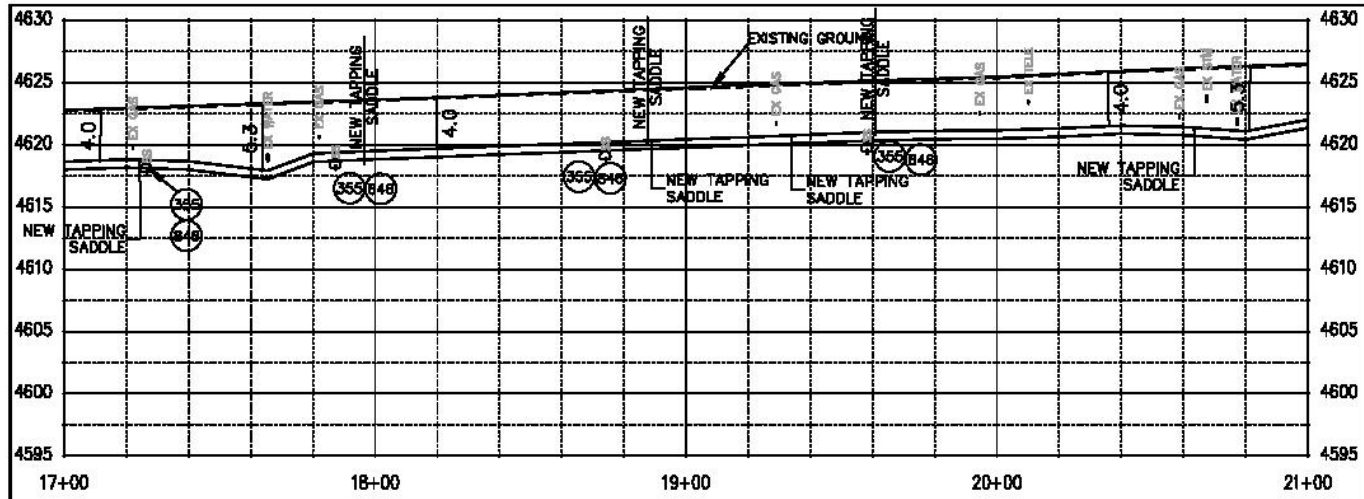
**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Water Line Plan  
from I70B to North and Hill, Teller, & Belford West**

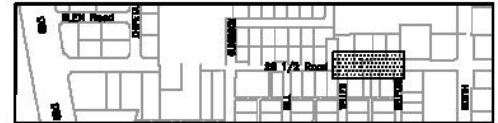
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- CONSTRUCTION NOTES**
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
  - 25 202 - ABANDON EXISTING WATER VALVE. CLOSE VALVE, REMOVE TOP HALF OF EXISTING VALVE BOX, FILL CAVITY TO FINISHED SUBGRADE WITH FLOW FILL MATERIAL
  - 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18\"/>



SEE PAVING PLANS FOR PAVING DATA



KEYMAP

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A		2017		2017
REVISION B		2017		2017
REVISION C		2017		2017
REVISION D		2017		2017

REVISION	DESCRIPTION	DATE
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REVISION C		2017
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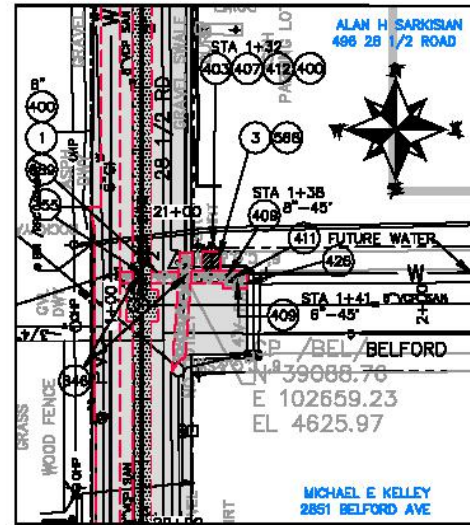
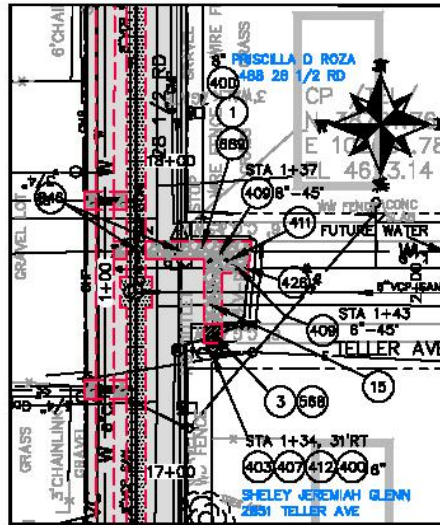
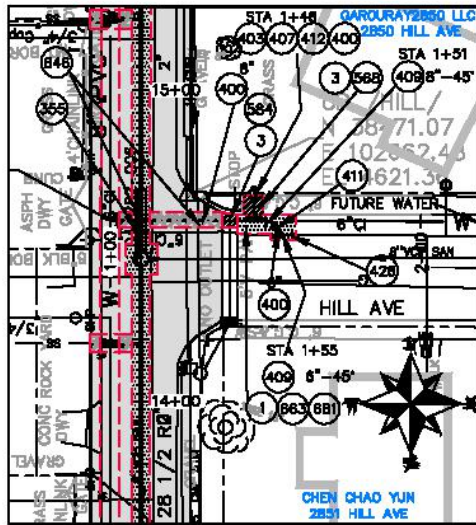


**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Water Line Plan  
from 1700 to North and Hill, Teller, & Belford West**

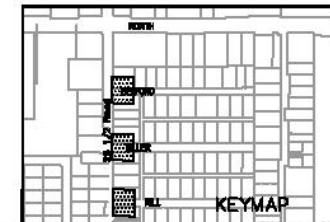
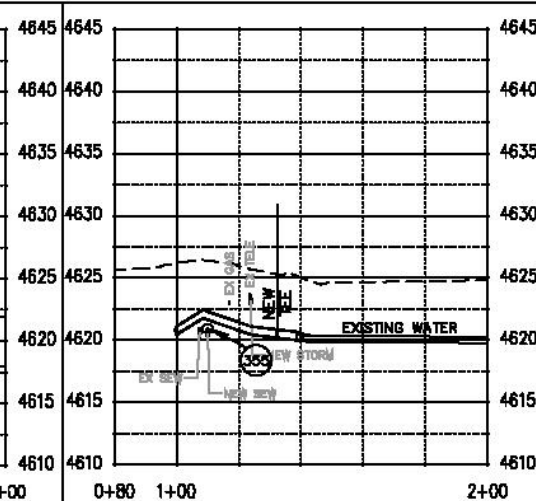
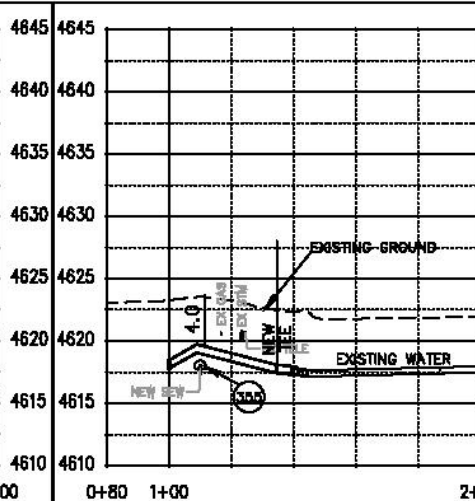
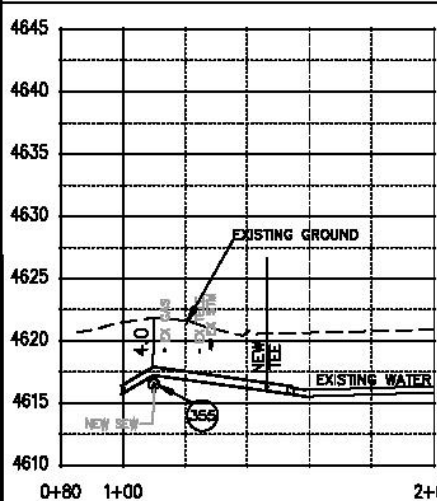
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**CONSTRUCTION NOTES**

- 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)
- 355 104.40 - CAP TOP HALF OF SEWER IN CONCRETE PER DETAIL GU-04. (WATER LINE LESS THAN 18" ABOVE SEWER LINE)
- 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 103.18 EARTH BACKFILL MATERIAL
- 403 102.8b/108.3 - GATE VALVE. (SIZE AS SHOWN)
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 411 102.8/108.3 - REDUCER (SIZE AS SHOWN).
- 412 102.8b/108.3 - FIRE HYDRANT
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 588 608.06 - MONOLITHIC VERTICAL CURB, GUTTER AND SIDEWALK (8' WIDE)
- 576 608.06 - CONCRETE DRIVEWAY SECTION (6" THICK) (RESIDENTIAL)
- 584 608.06 - CONCRETE DRAINAGE PAN (5' WIDE)
- 683 304 - AGGREGATE BASE COURSE (CLASS 8) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 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.



REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE
REVISION A	ISSUE	2017	DRIVEN BY	DATE	2017
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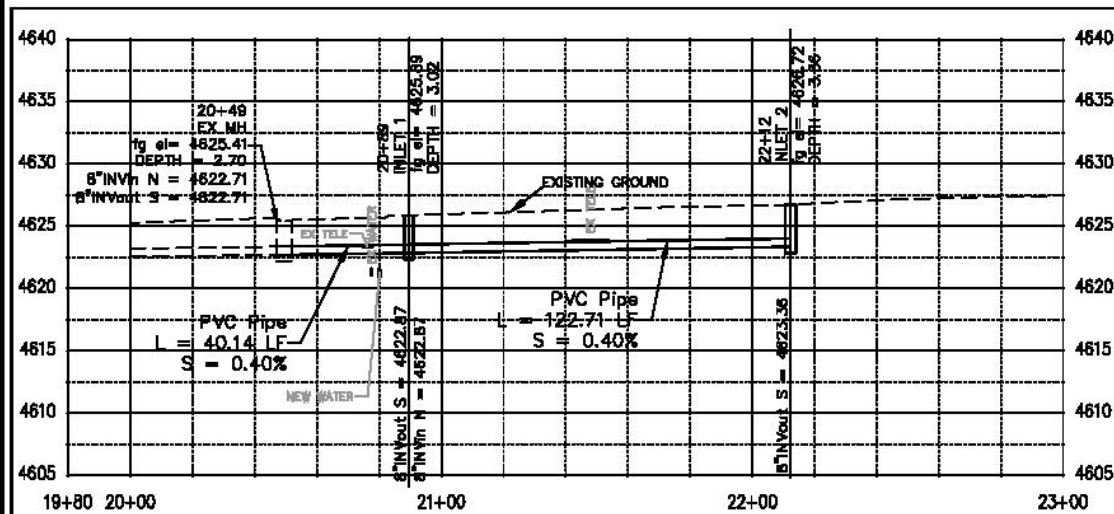
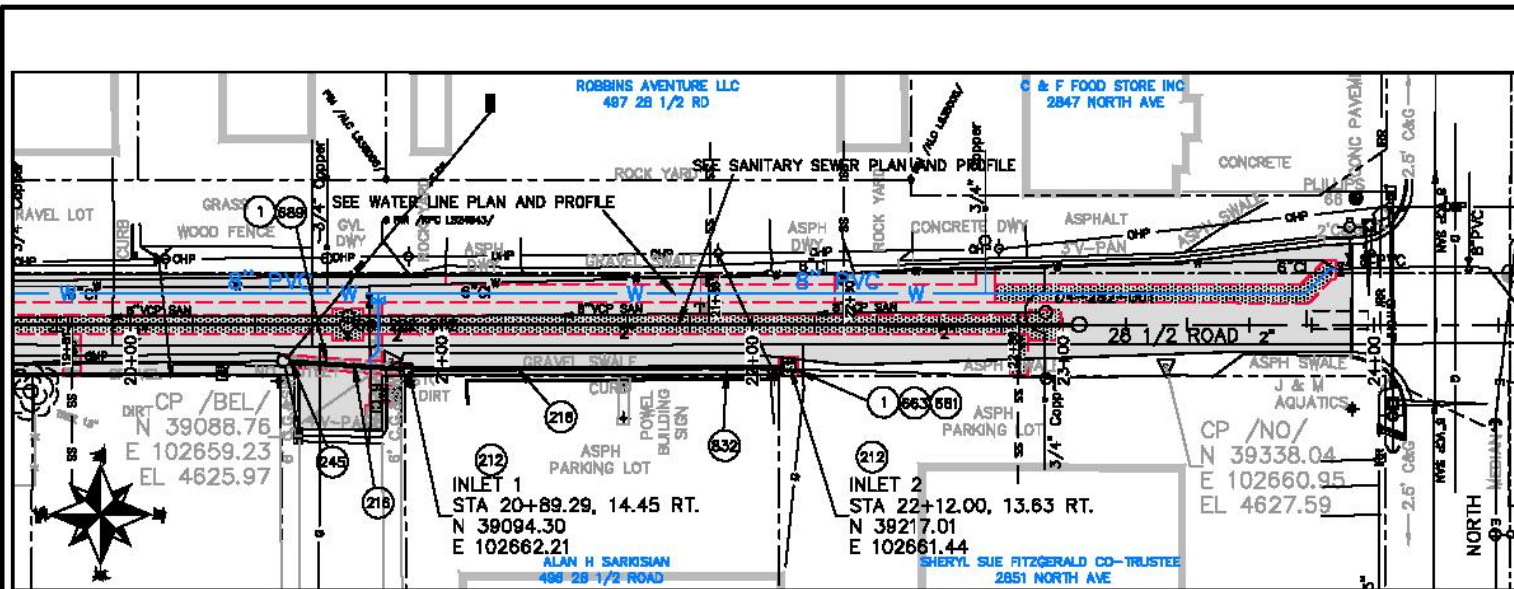
**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Water Line Plan  
from 170B to North and Hill, Teller, & Belford West**

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N:\landproj\2017 28.5 ROAD\DWG\STORM DRAIN PLAN AND PROFILE.dwg, 5/27/2017 6:53:15 AM



**CONSTRUCTION NOTES**

- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. INDICATED BY DOT HATCH PATTERN)
- 212 102.13/108.6 - LARGE AREA INLET (SEE CITY OF GRAND JUNCTION STANDARD DETAIL D-10).
- 218 102.10/108.2 - 8" STORM DRAIN PIPE (PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.18 EARTH BACKFILL MATERIAL.
- 245 102.13/108.6 - CONNECT TO EXISTING STORM DRAIN INLET OR MANHOLE ( 8" PIPE). (SEE CITY OF GRAND JUNCTION STANDARD DETAIL SS-08).
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (8" THICK)
- 681 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (3" THICK) (GRADING SX, BINDER GRADE PG 64-22) (TWO 1 1/2" LIFTS)
- 689 ENGINEER APPROVED TEMPORARY PATCH (COST SHALL BE INCIDENTAL TO THE COST OF THE WATER LINE) (CONTRACTOR SHALL MAINTAIN PATCH DURING WATER LINE INSTALLATION) (DURING PAVING OPERATIONS TRENCH WILL BE PAVED OVER AS A PART OF OVERLAY OPERATIONS)
- 832 RESET TELEPHONE LINE (BY OTHERS).

SEE PAVING PLANS FOR PAVING DATA



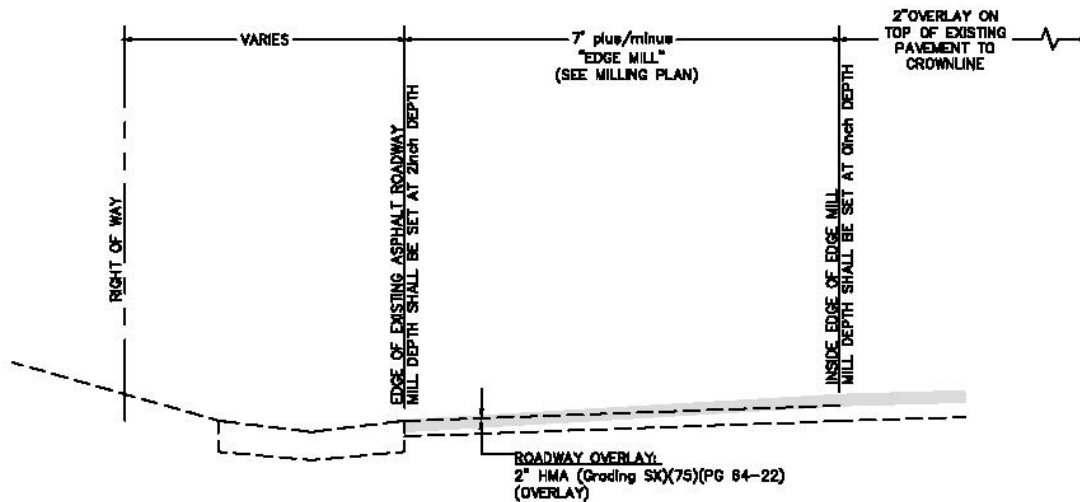
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REVISION C	ISSUE	2017	DR	DR	2017
REVISION D	ISSUE	2017	DR	DR	2017



**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Storm Drain  
from I70B to North Ave**



STATION RANGES LEFT: 10+87 TO 11+02  
20+96 TO 24+00

STATION RANGES RIGHT: 10+86 TO 10+89  
22+10 TO 24+00

**28 1/2 ROAD**  
**TYPICAL SECTION FOR OVERLAY TO EXISTING EDGE OF PAVEMENT**  
 (right side same as left)

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REVISION $\Delta$			
REVISION $\Delta$			
REVISION $\Delta$			

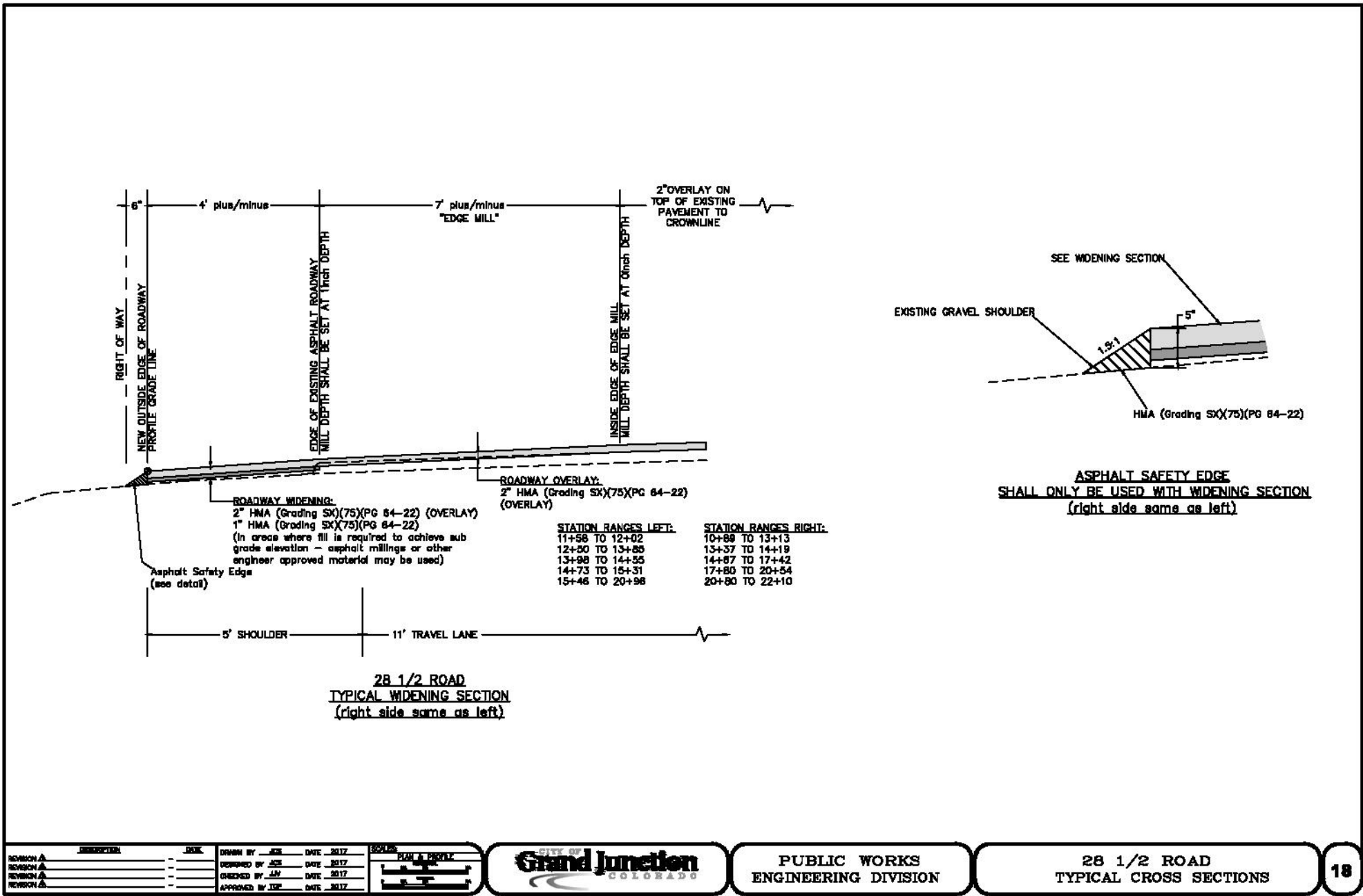
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APPROVED BY	DATE

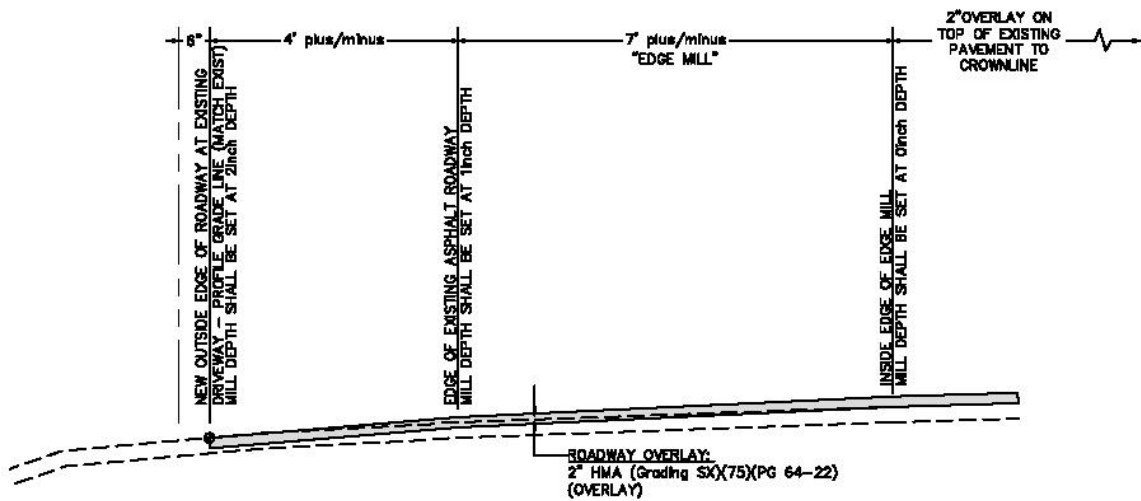


**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**28 1/2 ROAD**  
**TYPICAL CROSS SECTIONS**

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STATION RANGES LEFT:	STATION RANGES RIGHT:
11+02 TO 11+58	13+13 TO 13+37
12+02 TO 12+50	14+19 TO 14+67
13+84 TO 13+98	17+42 TO 17+80
14+55 TO 14+73	20+54 TO 20+80
15+31 TO 15+48	



**28 1/2 ROAD**  
**TYPICAL SECTION AT EXISTING DRIVEWAY OR INTERSECTION**  
 (right side same as left)

REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE
REVISION					
REVISION					
REVISION					

DESIGNED BY: **KEVIN A. BEVILACCA**  
 DRAWN BY: **KEVIN A. BEVILACCA**  
 CHECKED BY: **KEVIN A. BEVILACCA**  
 APPROVED BY: **KEVIN A. BEVILACCA**



**PUBLIC WORKS**  
**ENGINEERING DIVISION**




**28 1/2 ROAD**  
**TYPICAL CROSS SECTIONS**

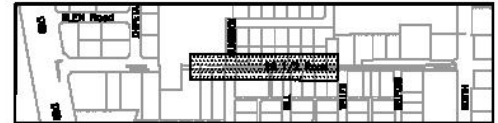
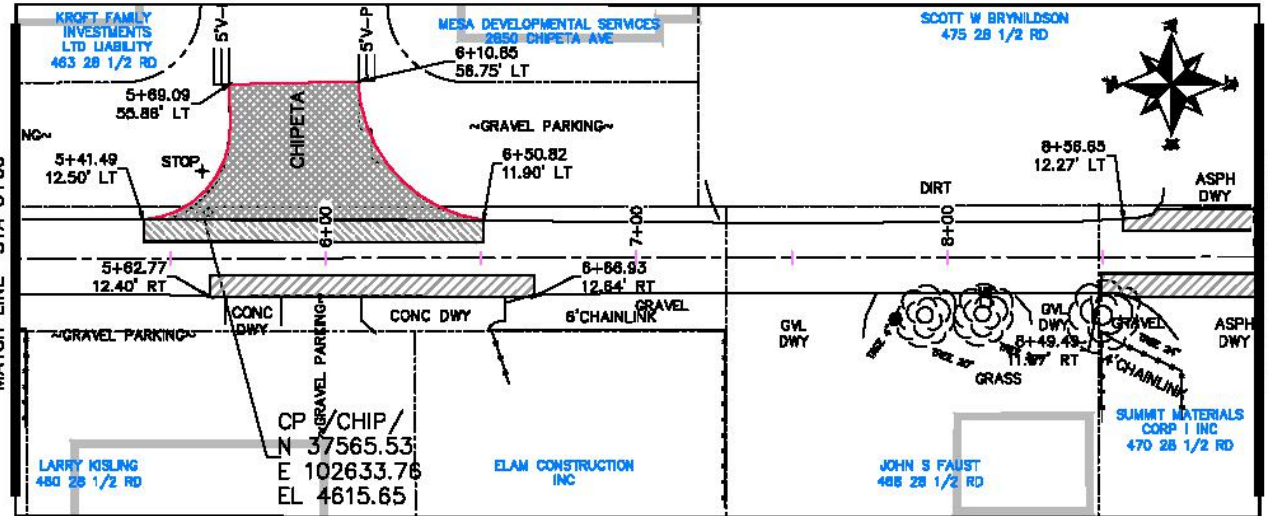
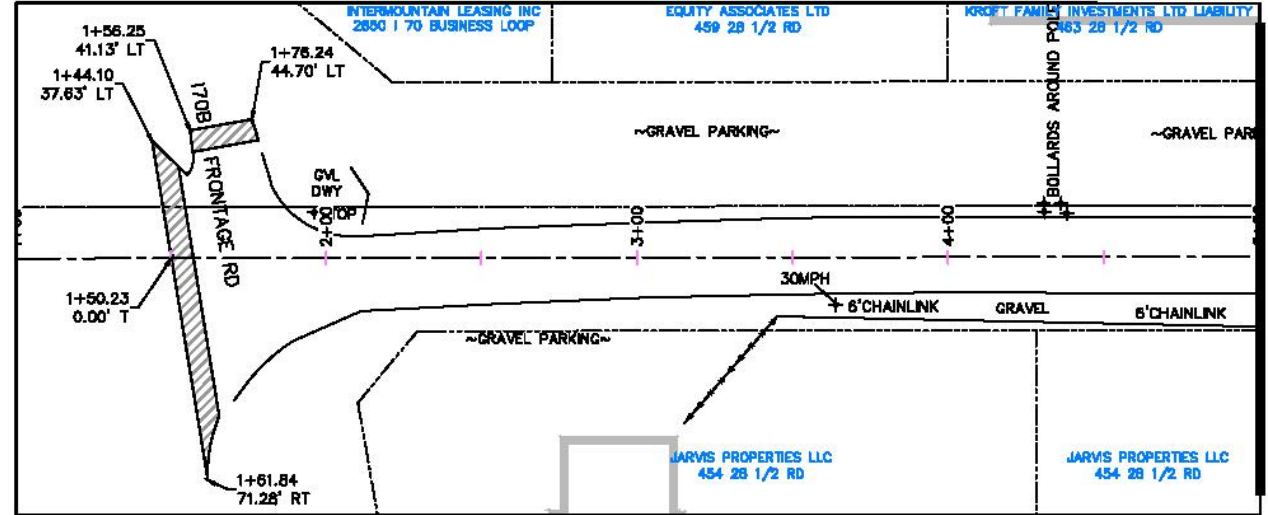
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**CONSTRUCTION NOTES**

- 1 202 - MILLING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

-  VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2" TO INSIDE AT 1" (SEE TYPICAL SECTIONS)
-  VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 1" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)
-  VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)



KEYMAP

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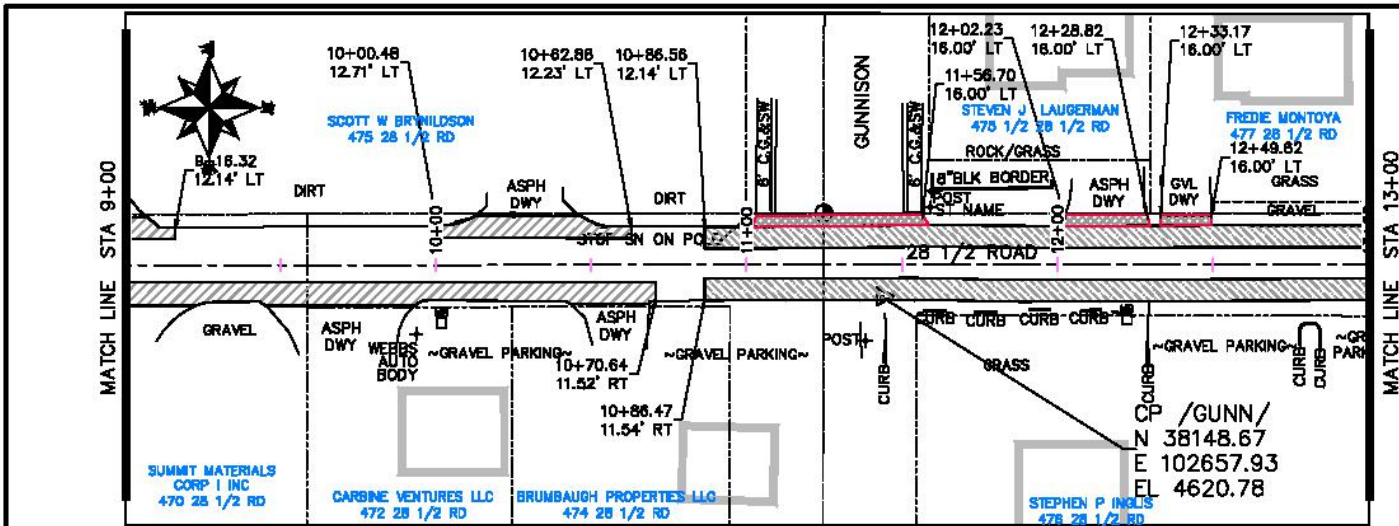


**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Milling Plan  
from I70B to North Ave**

N:\land\proj\2017 28.5 ROAD\DWG\ROADWAY MILLING PLAN.dwg, 6/27/2017 7:00:06 AM

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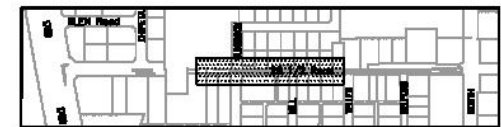
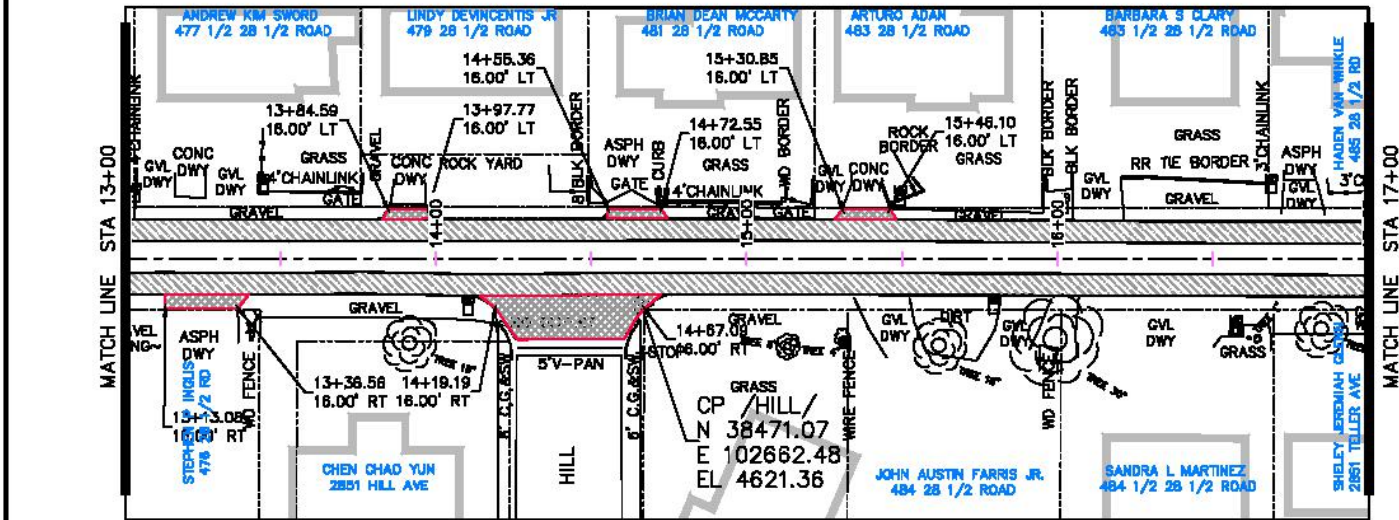


**CONSTRUCTION NOTES**

- 1 202 - MILLING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

- VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2" TO INSIDE AT 1" (SEE TYPICAL SECTIONS)
- VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 1" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)
- VARIABLE DEPTH MILLING FROM OUT SIDE EDGE AT 2" TO INSIDE AT 0" (SEE TYPICAL SECTIONS)



KEYMAP

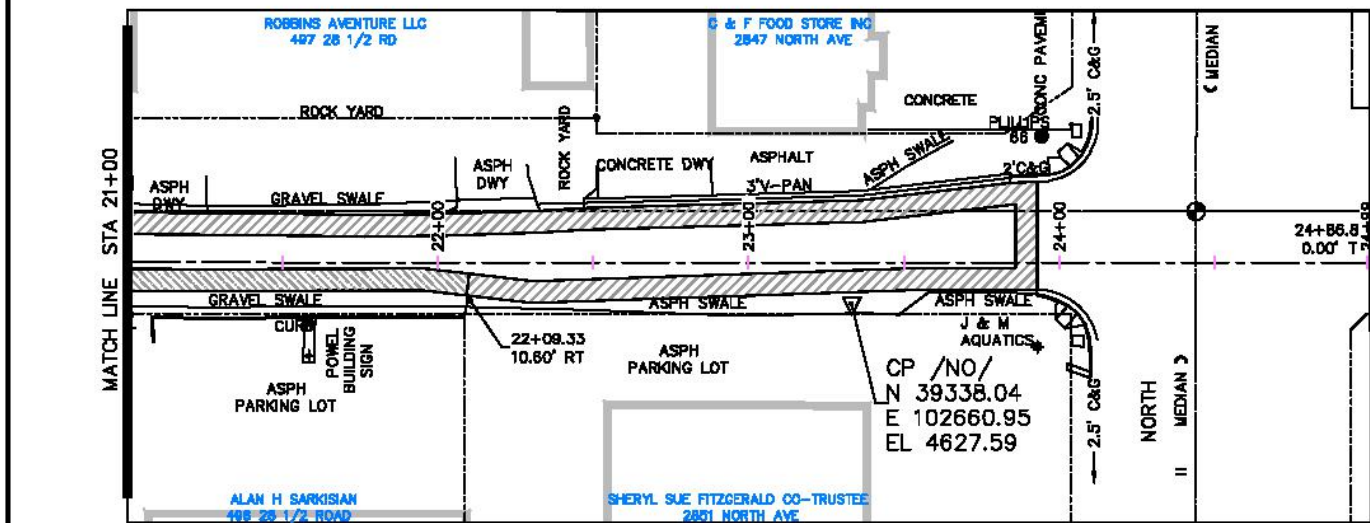
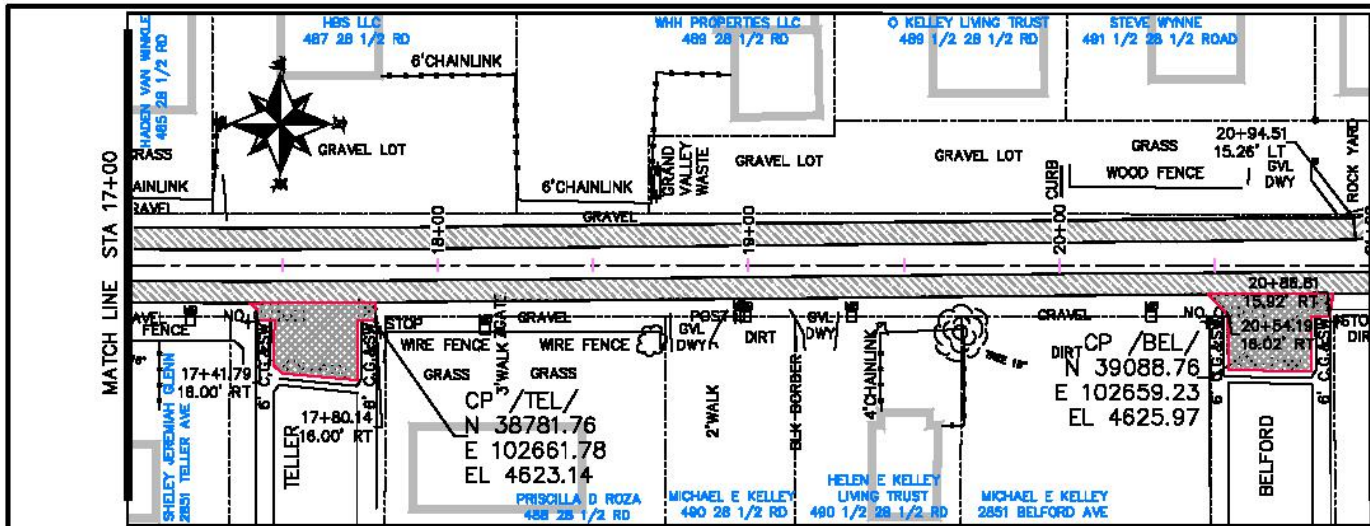
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REVISION A.202	2017	APPROVED BY JES	JES	DATE 2017	JES



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ENGINEERING DIVISION**

**28 1/2 Road Milling Plan  
from I70B to North Ave**

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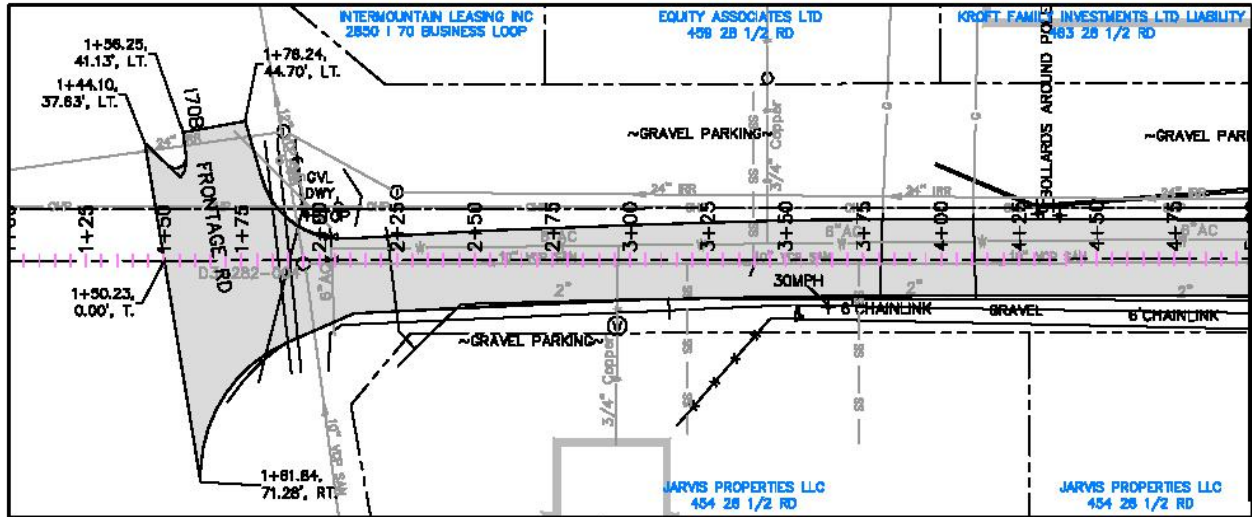


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REVISION C	2017				
REVISION D	2017				



**PUBLIC WORKS  
ENGINEERING DIVISION**

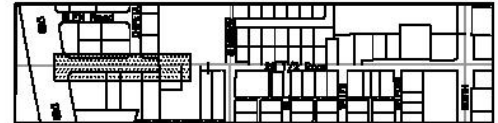
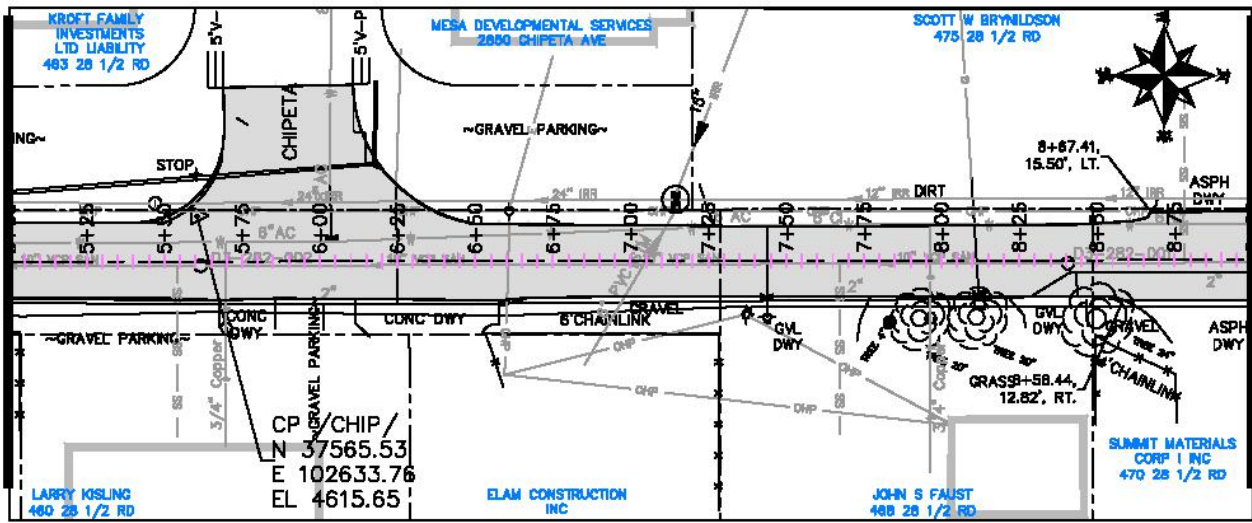
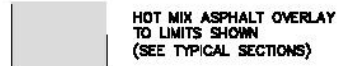
**28 1/2 Road Milling Plan  
from I70B to North Ave**



**CONSTRUCTION NOTES**

- 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**



KEYMAP

REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE
REVISION A	ISSUE	2017	JES	JES	2017
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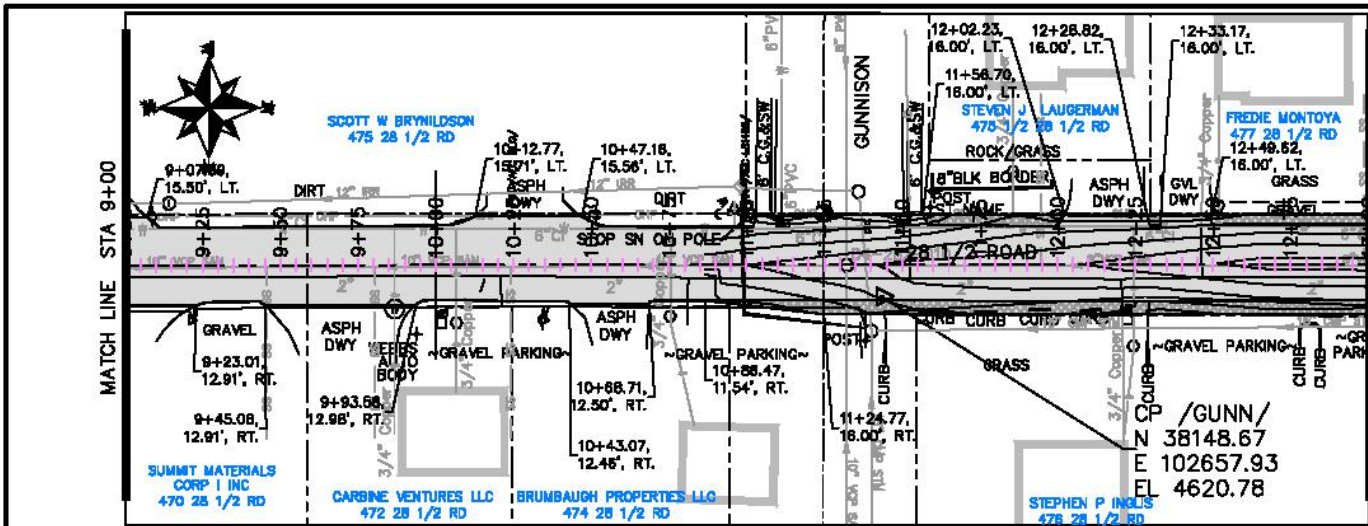


**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Paving Plan  
from I70B to North Ave**

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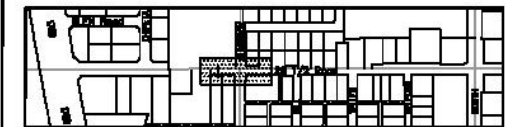
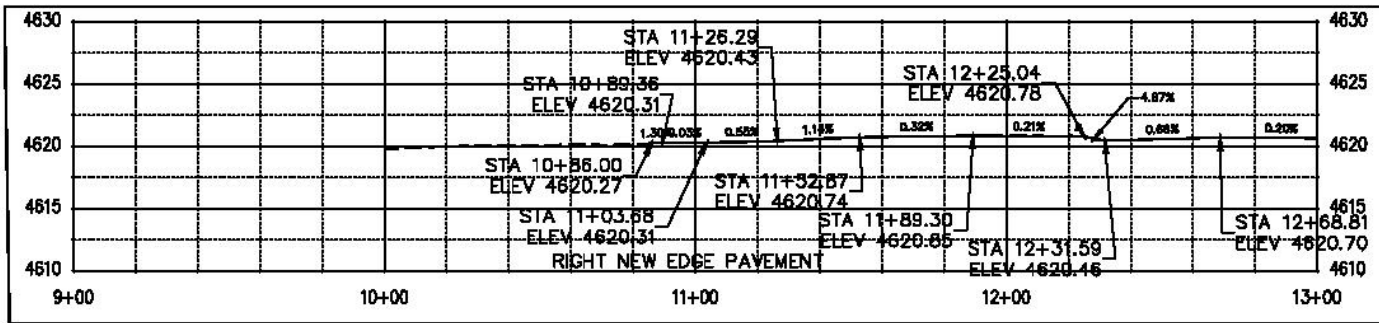
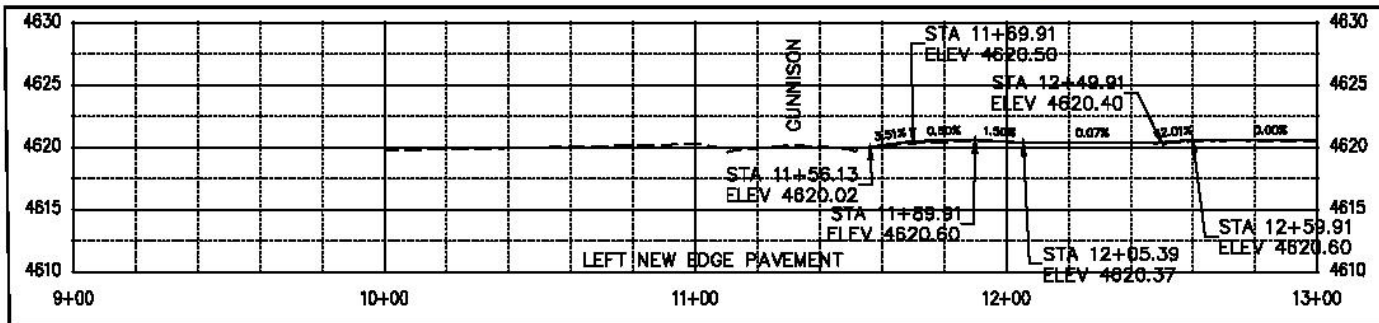


**CONSTRUCTION NOTES**

- 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

- HOT MIX ASPHALT WIDENING (SEE TYPICAL SECTIONS)
- HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)



KEYMAP

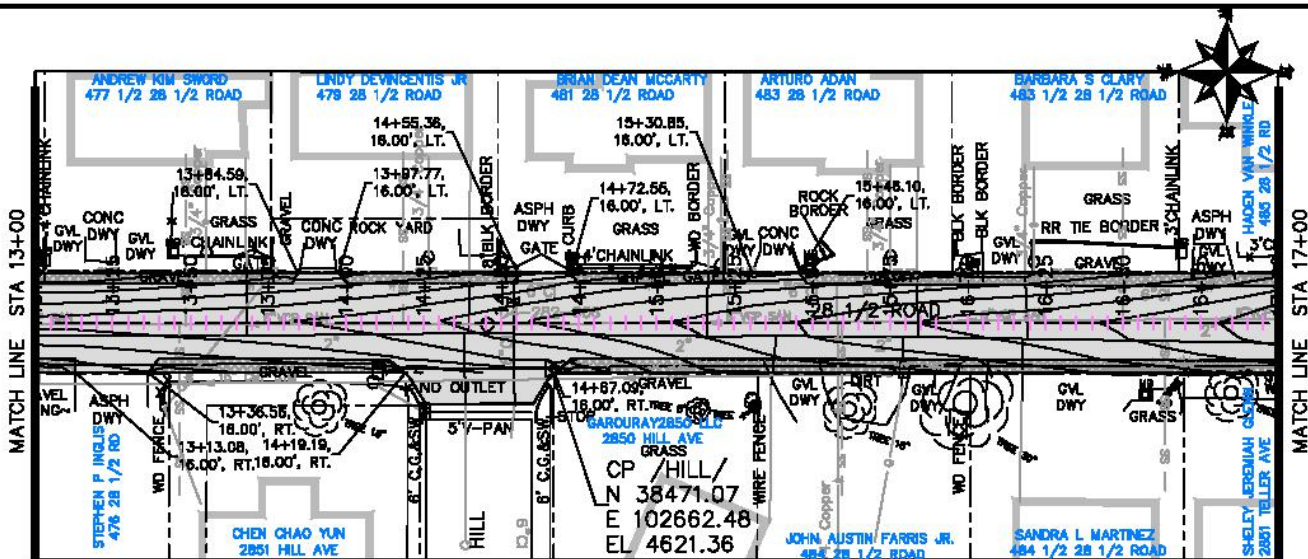
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ENGINEERING DIVISION**

**28 1/2 Road Paving Plan  
from I70B to North Ave**

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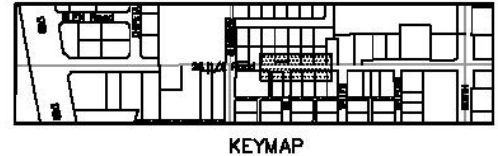
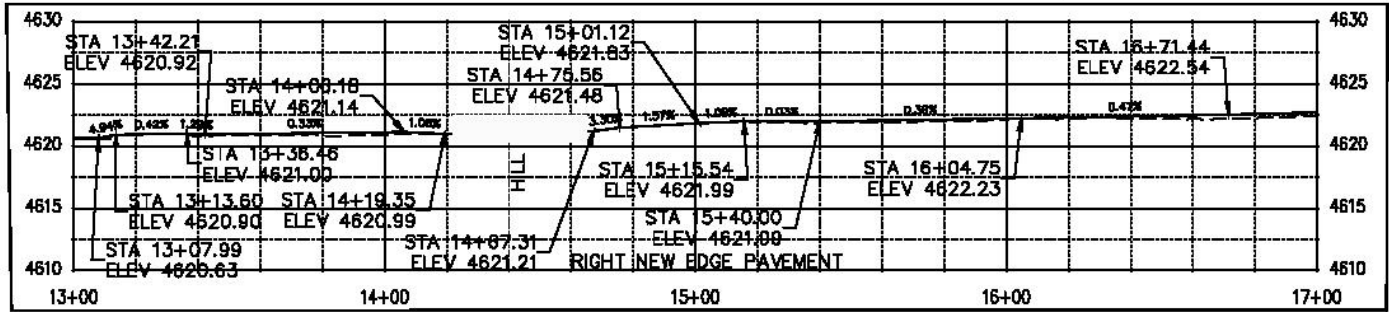
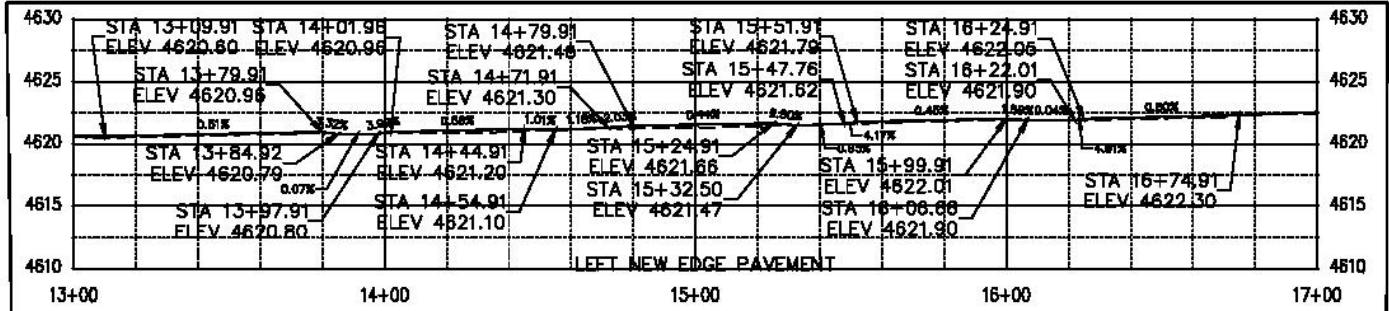
**CONSTRUCTION NOTES**

1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

HOT MIX ASPHALT WIDENING (SEE TYPICAL SECTIONS)

HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)



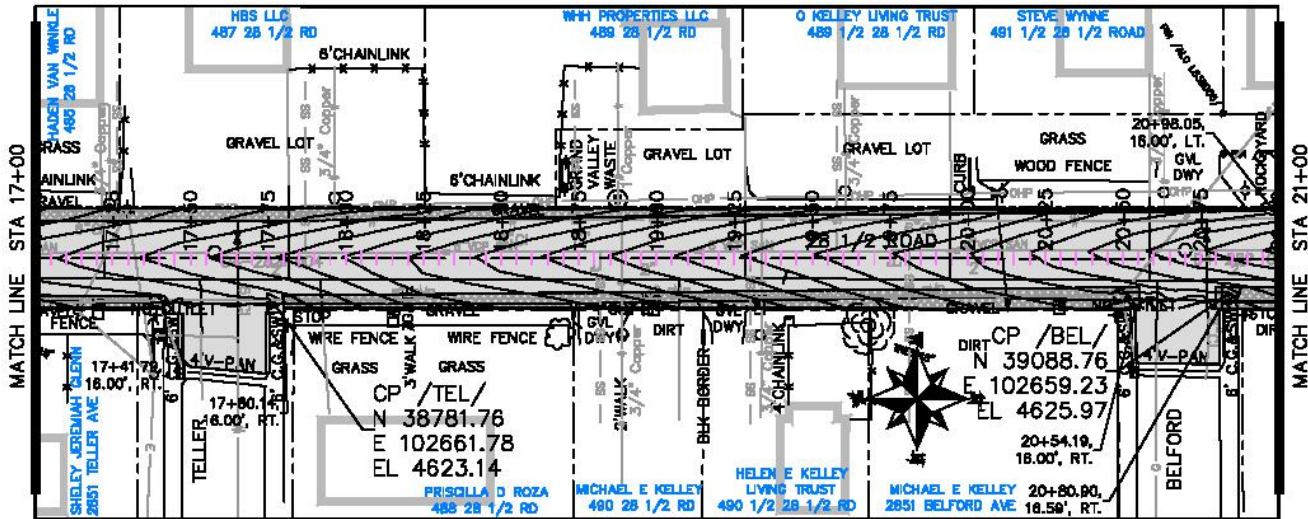
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REVISION C	2017	APPROVED BY	2017

**CITY OF**  
  
**Grand Junction**  
 COLORADO

**PUBLIC WORKS**  
**ENGINEERING DIVISION**

**28 1/2 Road Paving Plan**  
**from I70B to North Ave**

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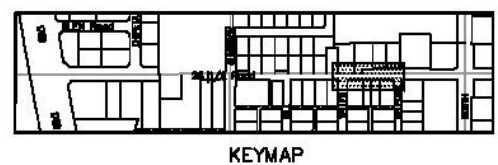
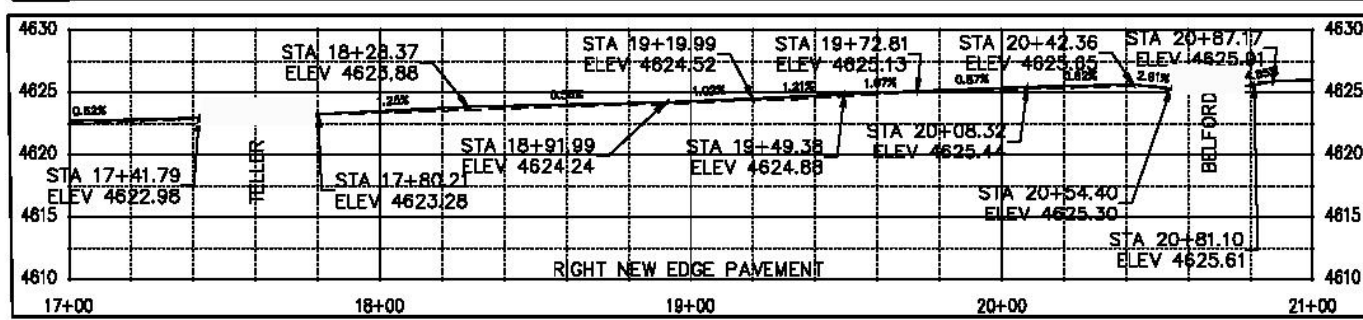
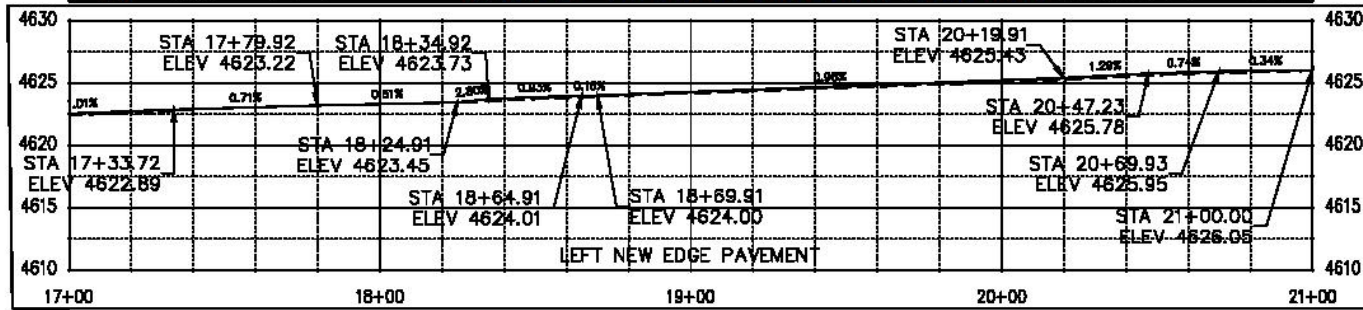
**CONSTRUCTION NOTES**

1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

HOT MIX ASPHALT WIDENING (SEE TYPICAL SECTIONS)

HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)



REVISION	DESCRIPTION	DATE	BY	CHECKED	DATE
REVISION A	ISSUE	2017	JES	JES	2017
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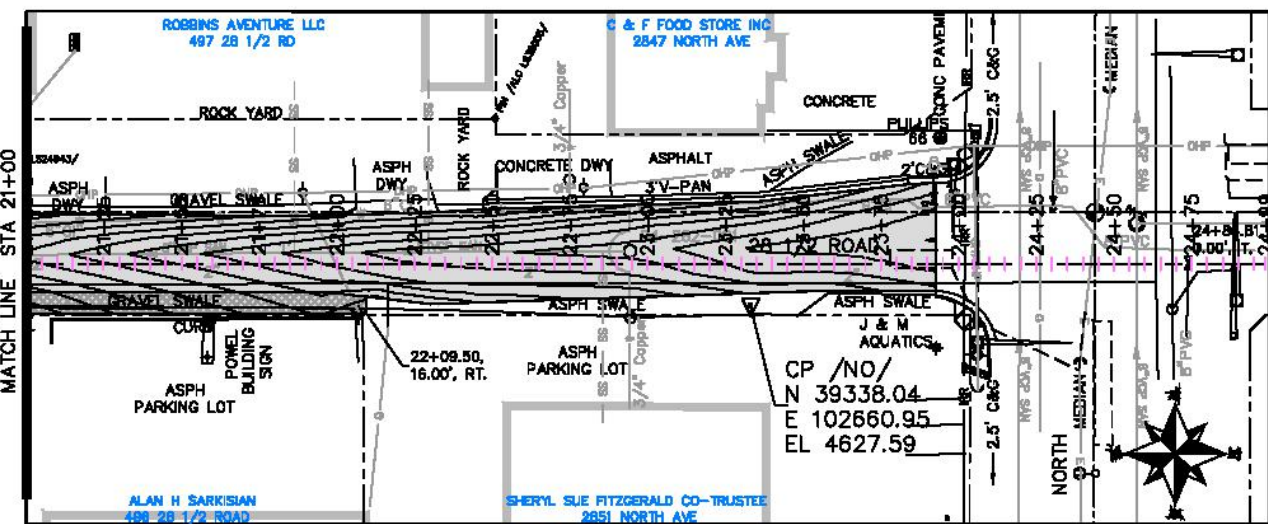
PUBLIC WORKS

ENGINEERING DIVISION

28 1/2 Road Paving Plan  
 from I70B to North Ave



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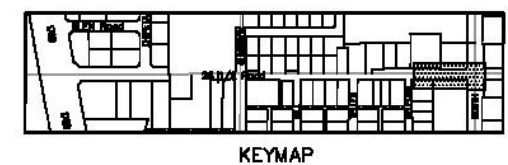
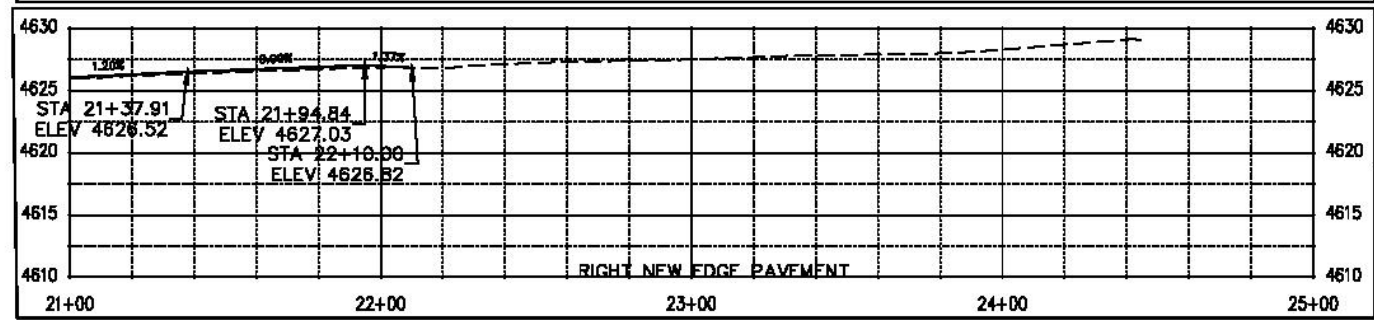
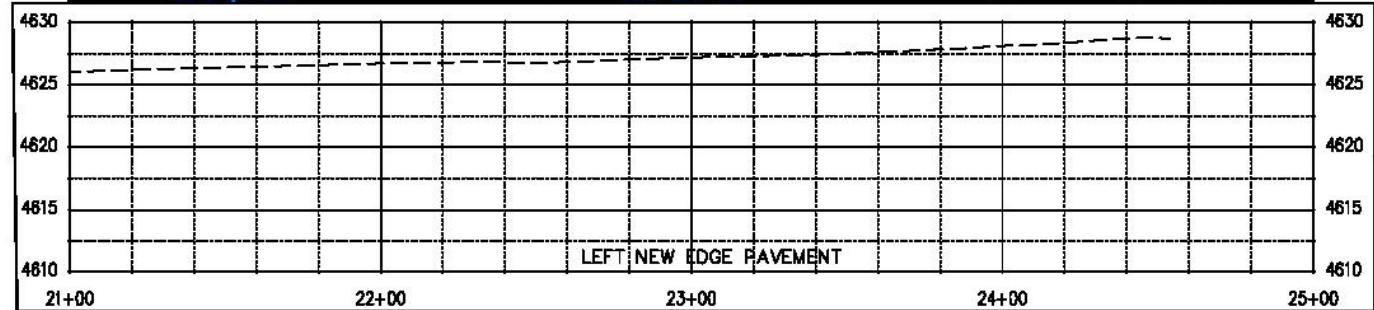
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**CONSTRUCTION NOTES**  
 1 401 - PAVING PER PLAN TO LIMITS AS SHOWN. (SEE LEGEND FOR ADDITIONAL INFORMATION)

**LEGEND**

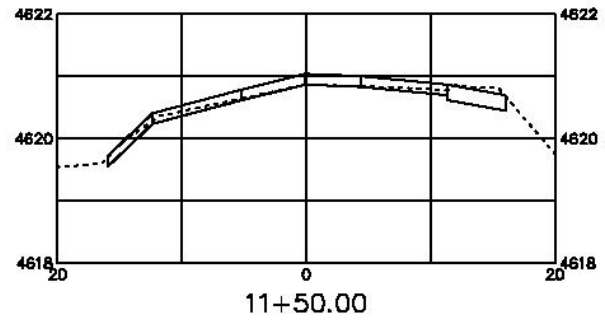
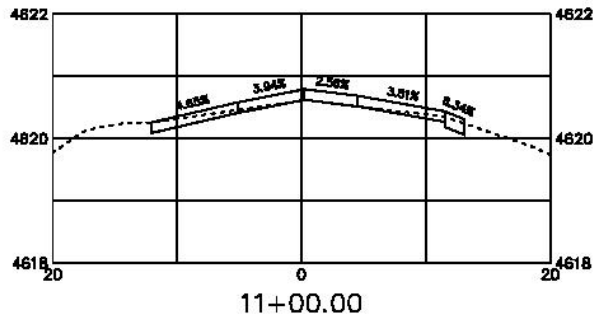
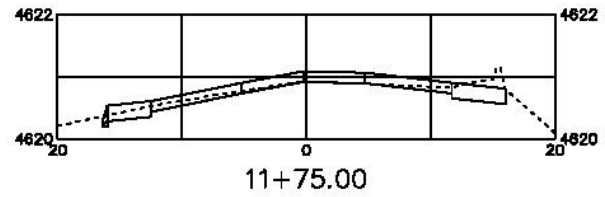
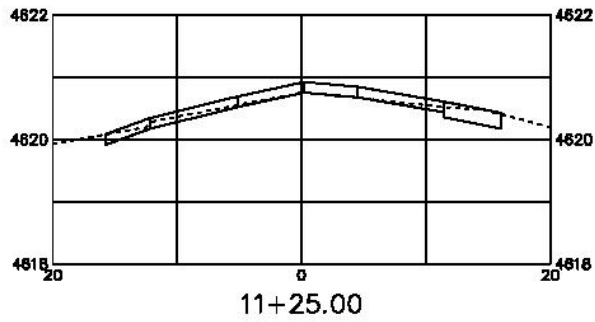
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-  HOT MIX ASPHALT OVERLAY TO LIMITS SHOWN (SEE TYPICAL SECTIONS)



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REVISION A	ISSUE	2017	JES	JES	2017
REVISION B	ISSUE	2017	JES	JES	2017
REVISION C	ISSUE	2017	JES	JES	2017
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 PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 Road Paving Plan  
 from I70B to North Ave



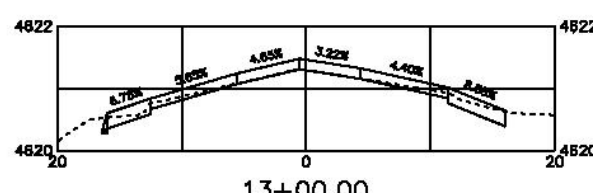
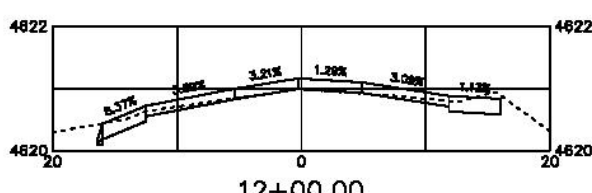
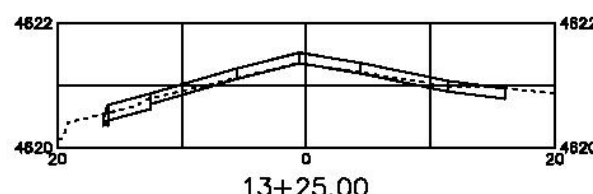
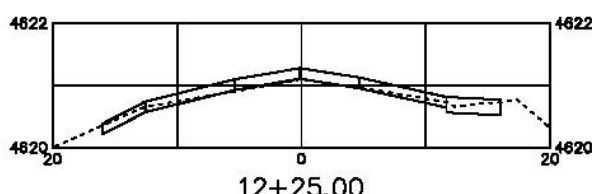
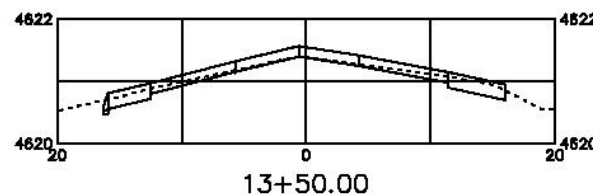
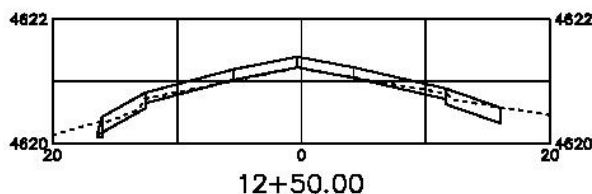
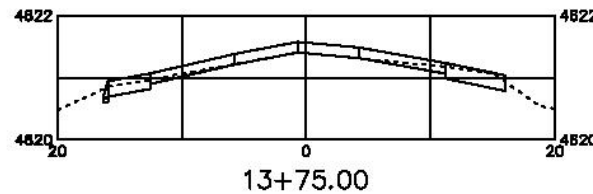
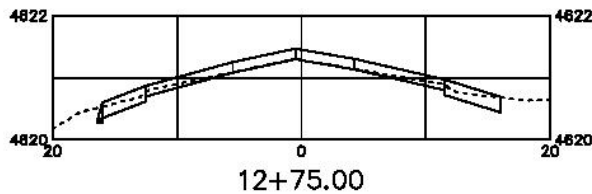
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PUBLIC WORKS  
ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS

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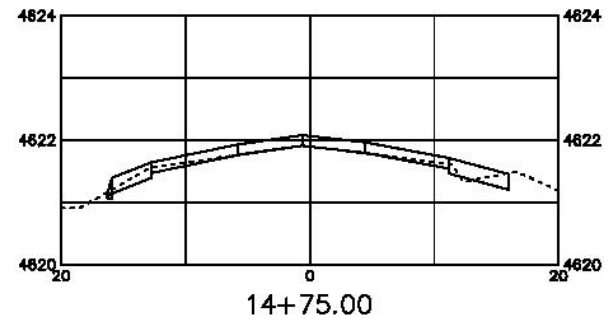
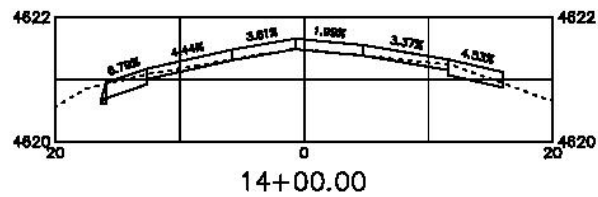
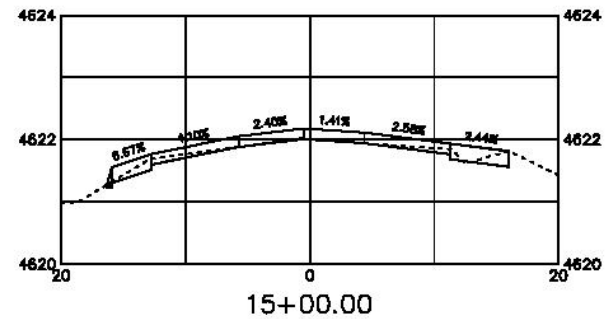
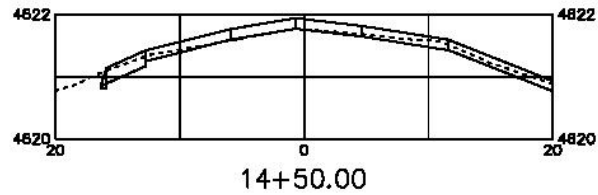
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PUBLIC WORKS  
ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS

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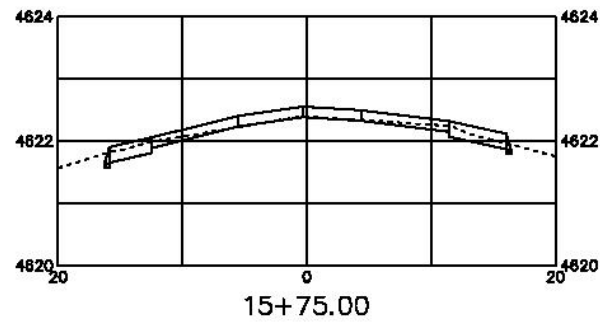
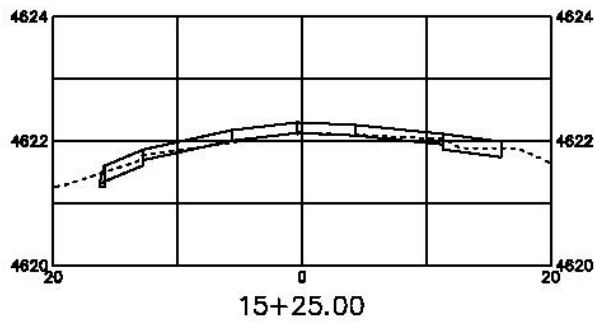
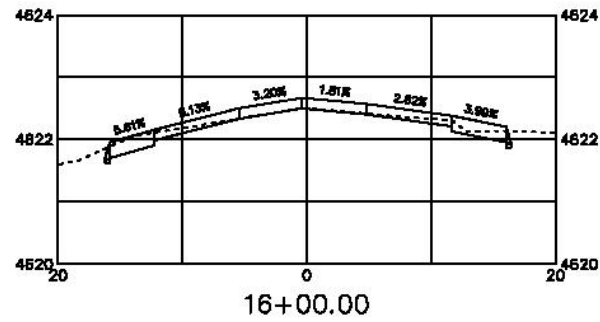
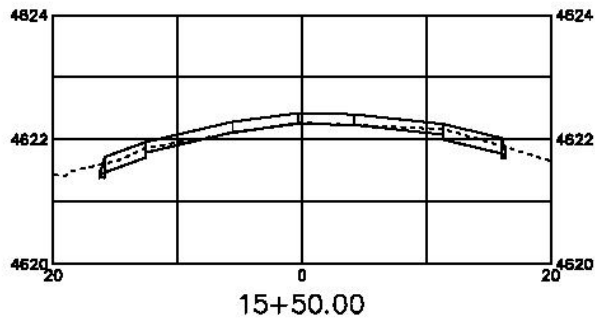
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**ENGINEERING DIVISION**

**28 1/2 ROAD**  
**CROSS SECTIONS**

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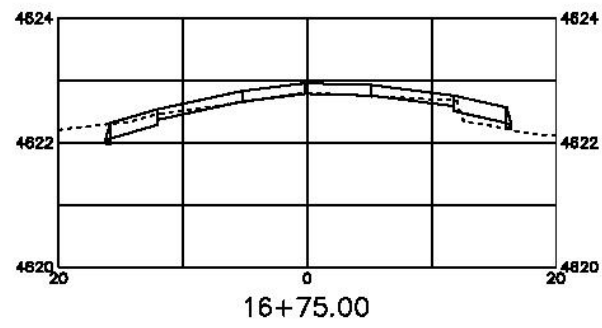
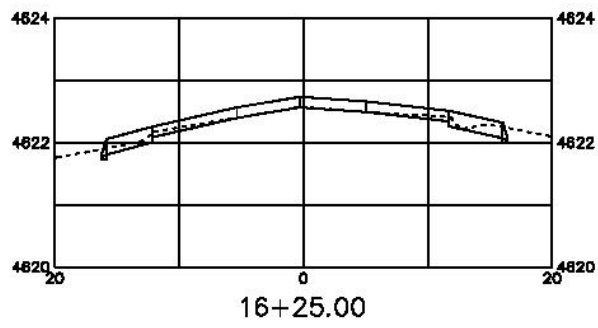
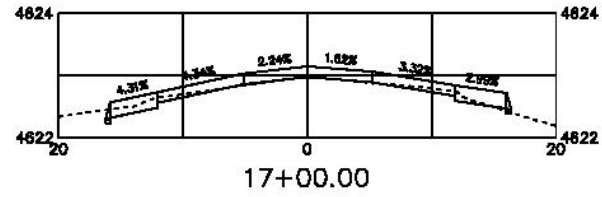
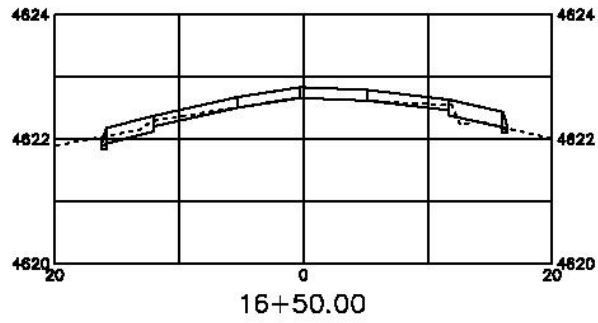


PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 ROAD  
 CROSS SECTIONS



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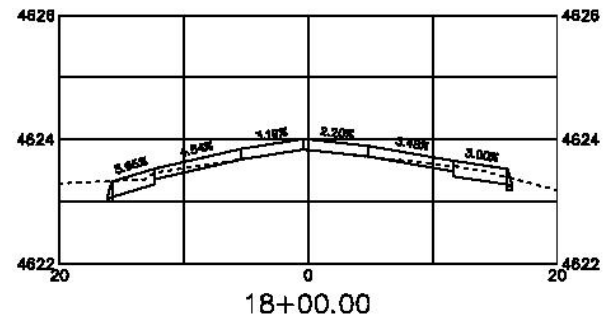
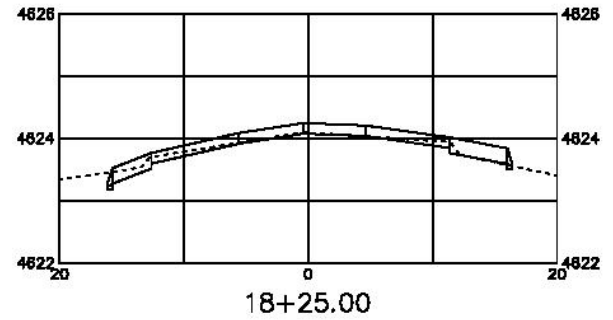
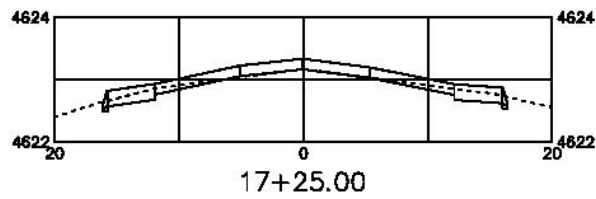
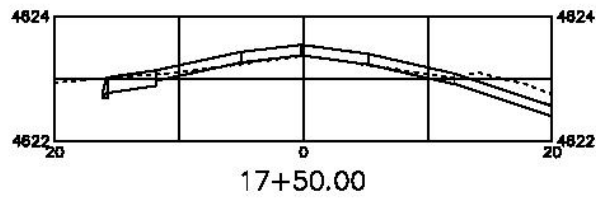
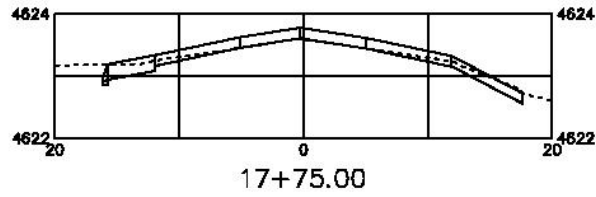
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SCALE: PLAN & PROFILE



PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 ROAD  
 CROSS SECTIONS



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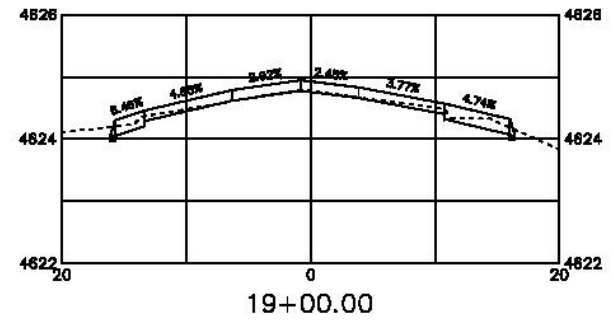
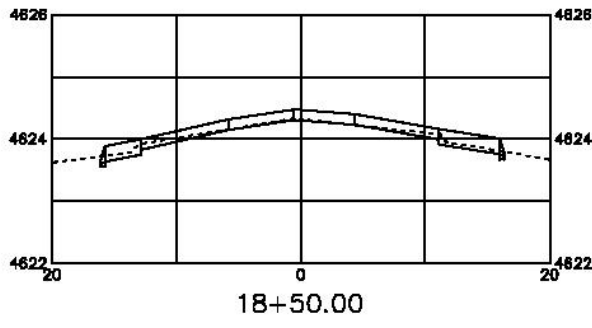
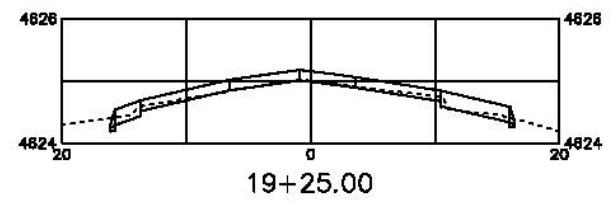
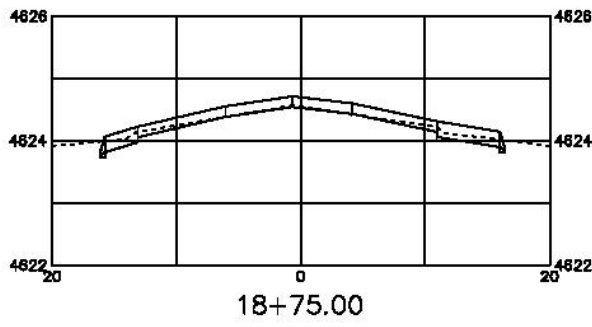


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ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS

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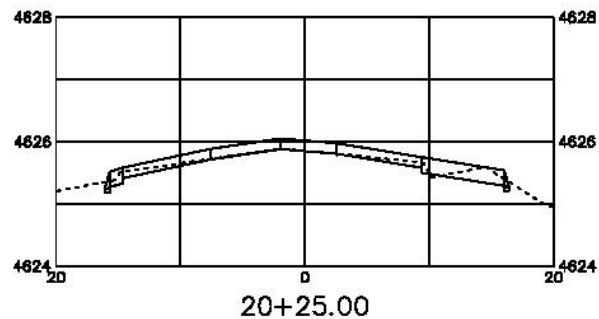
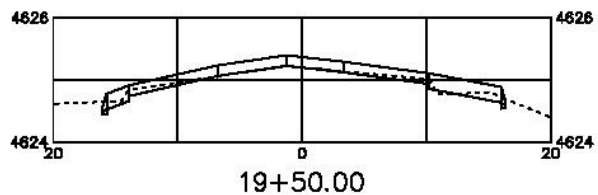
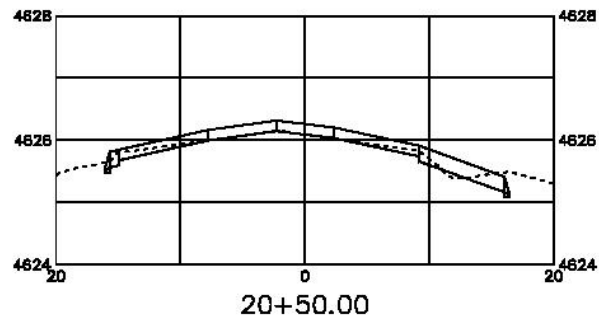
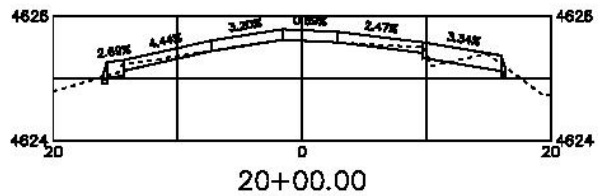
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PUBLIC WORKS  
 ENGINEERING DIVISION

28 1/2 ROAD  
 CROSS SECTIONS



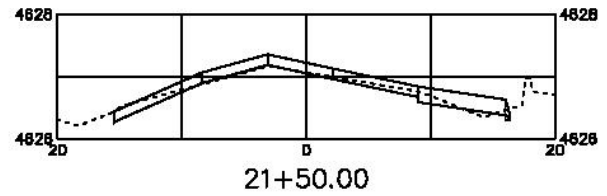
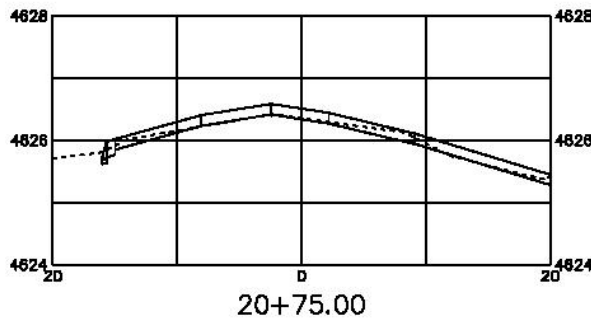
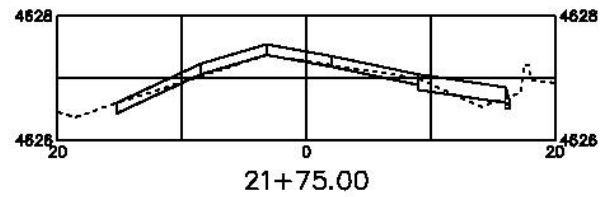
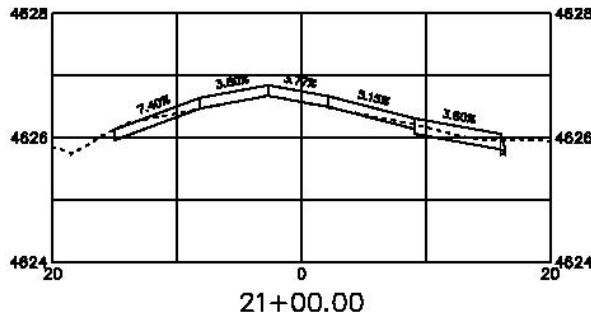
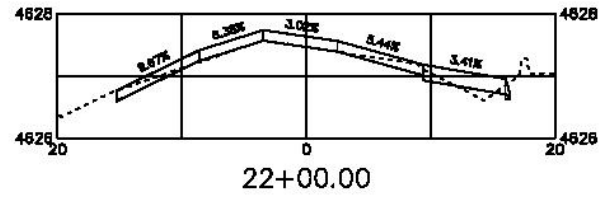
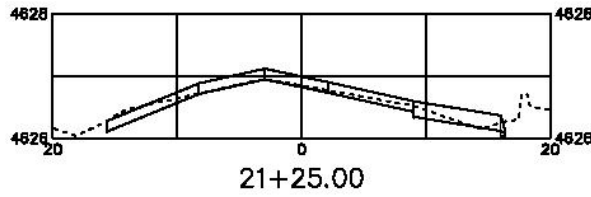
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**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 ROAD  
CROSS SECTIONS**



REVISION	DESCRIPTION	DATE	BY

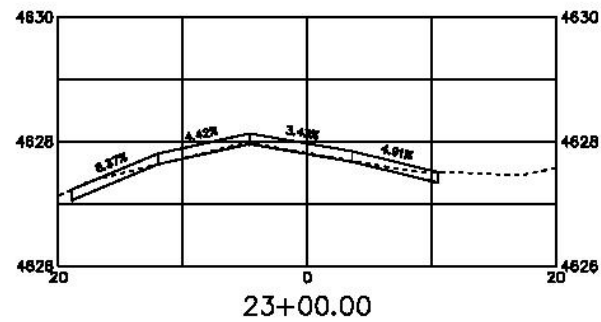
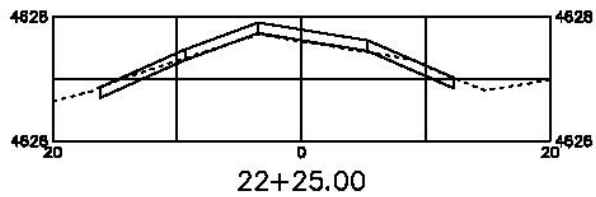
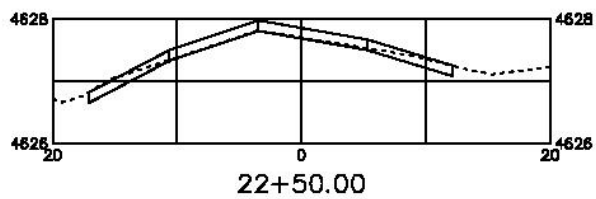
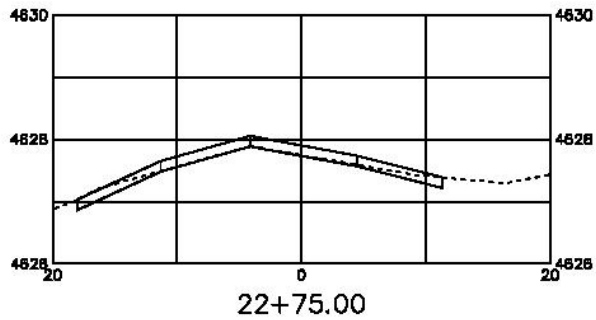
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PUBLIC WORKS  
ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS

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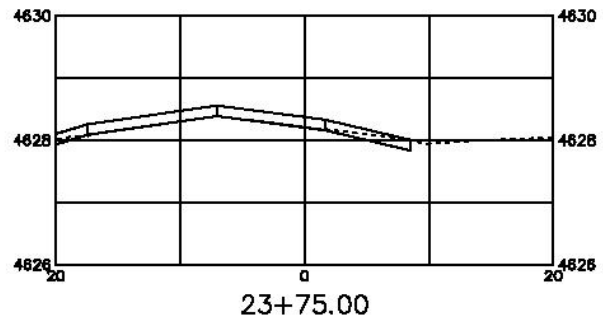
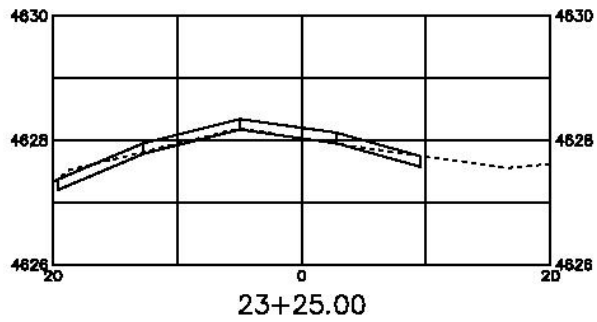
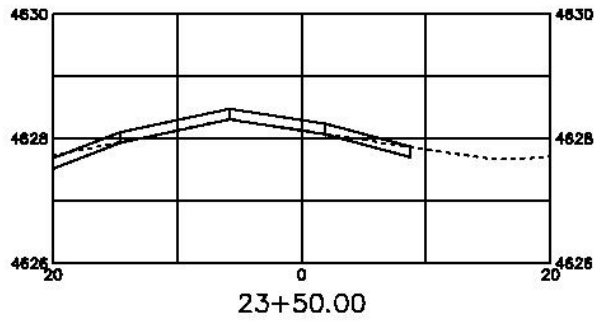


PUBLIC WORKS  
ENGINEERING DIVISION

28 1/2 ROAD  
CROSS SECTIONS

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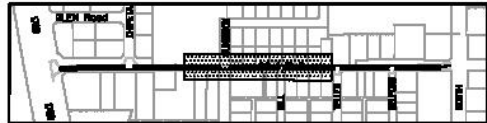
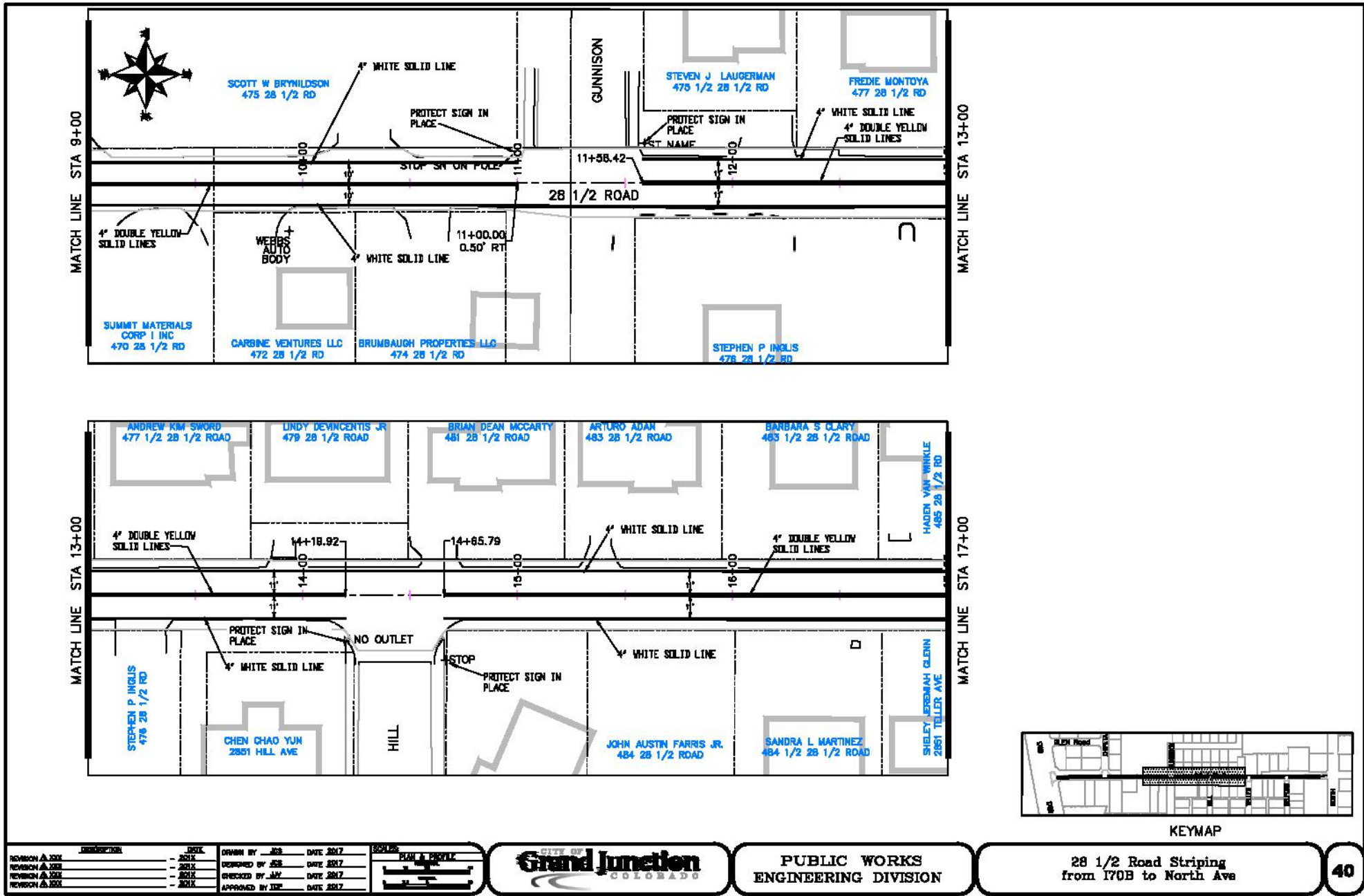
**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 ROAD  
CROSS SECTIONS**





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REVISION A.2017	2017	DESIGNED BY JES	DATE 2017
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SCALE	PLAN & PROFILE
1" = 40'	



**PUBLIC WORKS  
ENGINEERING DIVISION**

**28 1/2 Road Striping  
from I70B to North Ave**







Purchasing Division

## **ADDENDUM NO. 2**

**DATE:** July 18, 2017  
**FROM:** City of Grand Junction Purchasing Division  
**TO:** All Offerors  
**RE:** 28 ½ Road Sewer and Water Line Replacement and Overlay IFB-4399-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. Item #2- 6" DR18. Does this pipe include the piping for the fire hydrants?  
A. Correct.
2. Q. Item #17- 4" Sewer service taps. I count 29 on the plans and profile...schedule says 30.  
A. There are 29 Sewer Service Taps identified per the Plan Set. In lieu of supplying a revised bid schedule, the most current Bid Schedule (Addendum No. 1) shall be used for bidding the project.
3. Q. Item #10(only qty 1 tee, 6" line connection) and #11- Assuming the tees are FlgxFlg, should we add the MJxFLG adapters in this item? Or are you going to add another line item? Or should MJxFLG tees be quoted where possible?  
A. MJxFLG Tee's to be quoted where possible.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written over a white background.

Duane Hoff Jr., Senior Buyer  
City of Grand Junction, Colorado

## 4. Contractor's Bid Form

Bid Date: 7-27-17

Project: IFB-4399-17-DH "28 1/2 Road Sewer and Water Line Replacement and Overlay"

Bidding Company: MA CONCRETE CONST INC

Name of Authorized Agent: JEFF NIMON

Email MACONCRETE@NIMONCORPORATION.NET

Telephone 243-3221 Address PO 1968

City GJ State CO Zip 81507

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.

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

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

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

State number of Addenda received: 2

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: MA CONCRETE CONST INC

Authorized Signature: Matt Johnson

Title: ARRS

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

<u>Name &amp; address of Sub-Contractor</u>	<u>Description of work to be performed</u>	<u>% of Contract</u>
<u>REISS, MARTIN LOUST</u>	<u>ASPHALT PAVING</u>	<u>20%</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </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: 28 1/2 Road Sewer and Water Line Replacement and Overlay

## Addendum No. 1

**Contractor:** MA CONCRETE CONST INC

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	104.4	Cap top half of sewer in concrete per std detail GU-04	16.	EA	\$ <u>1,000<sup>00</sup></u>	\$ <u>16,000<sup>00</sup></u>
2	108.2	Water Main (6") (C-900 PVC, DR-18) (Includes cost of connection to existing pipe)	70.	LF	\$ <u>120<sup>00</sup></u>	\$ <u>8400<sup>00</sup></u>
3	108.2	Water Main (8") (C-900 PVC, DR-18) (Includes cost of connection to existing pipe)	1,800.	LF	\$ <u>31<sup>05</sup></u>	\$ <u>55,890<sup>00</sup></u>
4	108.2	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.	535.	LF	\$ <u>53<sup>98</sup></u>	\$ <u>28,879<sup>30</sup></u>
5	108.2	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.	1,200.	LF	\$ <u>30<sup>84</sup></u>	\$ <u>37,008<sup>00</sup></u>
6	108.2	102.9/108.2 - 10" 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.	950.	LF	\$ <u>35<sup>35</sup></u>	\$ <u>33,582<sup>50</sup></u>
7	108.2	8" Storm Drain Pipe (PVC)	165.	LF	\$ <u>31<sup>01</sup></u>	\$ <u>5,116<sup>65</sup></u>
8	108.3	Gate Valve (6")	4.	EA	\$ <u>957<sup>84</sup></u>	\$ <u>3,831<sup>36</sup></u>
9	108.3	Gate Valve (8")	5.	EA	\$ <u>1,373<sup>84</sup></u>	\$ <u>6,869<sup>20</sup></u>
10	108.3	Tee (8" x 6")	4.	EA	\$ <u>489<sup>84</sup></u>	\$ <u>1,959<sup>36</sup></u>
11	108.3	Tee (8" x 8")	3.	EA	\$ <u>541<sup>84</sup></u>	\$ <u>1,625<sup>52</sup></u>
12	108.3	Elbow (6" x 45deg)	3.	EA	\$ <u>375<sup>44</sup></u>	\$ <u>1,126<sup>32</sup></u>
13	108.3	Elbow (8" x 45deg)	5.	EA	\$ <u>437<sup>84</sup></u>	\$ <u>2,189<sup>20</sup></u>
14	108.3	End Cap/Plug	5.	EA	\$ <u>261<sup>04</sup></u>	\$ <u>1,305<sup>20</sup></u>
15	108.3	Reducer (8" x 6")	4.	EA	\$ <u>385<sup>84</sup></u>	\$ <u>1,543<sup>36</sup></u>
16	108.3	Fire Hydrant	3.	EA	\$ <u>4,153<sup>76</sup></u>	\$ <u>12,461<sup>28</sup></u>
17	108.3	4" Sewer Service Tap ( Full Body Wye w/ Street 45°)	30.	EA	\$ <u>110<sup>24</sup></u>	\$ <u>3,307<sup>20</sup></u>
18	108.4	3/4" Tapping Saddle	22.	EA	\$ <u>177<sup>84</sup></u>	\$ <u>3,912<sup>48</sup></u>
19	108.4	3/4" Corporation Stop	22.	EA	\$ <u>99<sup>84</sup></u>	\$ <u>2,196<sup>48</sup></u>

# Bid Schedule: 28 1/2 Road Sewer and Water Line Replacement and Overlay

## Addendum No. 1

**Contractor:** MA CONCRETE CONST

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
20	108.4	3/4" Water Service Line (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	110.	LF	\$ <u>120<sup>00</sup></u>	\$ <u>13,200<sup>00</sup></u>
21	108.4	1" Tapping Saddle	1.	EA	\$ <u>203<sup>84</sup></u>	\$ <u>203<sup>84</sup></u>
22	108.4	1" Corporation Stop	1.	EA	\$ <u>125<sup>84</sup></u>	\$ <u>125<sup>84</sup></u>
23	108.4	1" Water Service Line (Type K Copper) (If Lead or Poly service line is encountered, water service shall be replaced to meter) (Includes cost of connection to existing pipe)	10.	LF	\$ <u>167.30</u>	\$ <u>1,677.30</u>
24	108.5	48" Sanitary Sewer MH (Drop)	1.	EA	\$ <u>9815<sup>52</sup></u>	\$ <u>9815<sup>52</sup></u>
25	108.5	48" Sanitary Sewer MH	7.	EA	\$ <u>3113<sup>76</sup></u>	\$ <u>21,796<sup>32</sup></u>
26	108.5	48" Sanitary Sewer MH Barrel Section	20.	LF	\$ <u>97<sup>97</sup></u>	\$ <u>1,959<sup>40</sup></u>
27	108.5	Connect to Existing Manhole (storm)	1.	EA	\$ <u>305<sup>76</sup></u>	\$ <u>305<sup>76</sup></u>
28	108.6	Single Storm Drain Inlet (large area Inlet)	2.	EA	\$ <u>3217<sup>76</sup></u>	\$ <u>6,435<sup>52</sup></u>
29	202	Uranium Mill Tailings Removal	130.	CY	\$ <u>13<sup>90</sup></u>	\$ <u>1,807<sup>00</sup></u>
30	202	Removal of Asphalt Mat (Edge Mill) (1" to 2")	600.	SY	\$ <u>4<sup>23</sup></u>	\$ <u>2,538<sup>00</sup></u>
31	202	Removal of Asphalt Mat (Edge Mill) (0" to 2")	850.	SY	\$ <u>3<sup>42</sup></u>	\$ <u>2,907<sup>00</sup></u>
32	202	Removal of Asphalt Mat (Edge Mill) (0" to 1")	1,800.	SY	\$ <u>3<sup>72</sup></u>	\$ <u>6,696<sup>00</sup></u>
33	202	Removal of Asphalt Mat (Full Depth)	2,785.	SY	\$ <u>339</u>	\$ <u>944,115</u>
34	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-pans curb ramps, intersection corners, aprons, and underlying street concrete)	20.	SY	\$ <u>14<sup>27</sup></u>	\$ <u>295<sup>40</sup></u>
35	202	Removal of Water Valve	2.	EA	\$ <u>550<sup>00</sup></u>	\$ <u>1,100<sup>00</sup></u>
36	202	Abandon Water Valve	5.	EA	\$ <u>131<sup>04</sup></u>	\$ <u>655<sup>20</sup></u>
37	202	Removal of Pipe (12" and smaller)	2,770.	LF	\$ <u>3<sup>00</sup></u>	\$ <u>8,310<sup>00</sup></u>
38	202	Removal of Manhole	8.	EA	\$ <u>409<sup>76</sup></u>	\$ <u>3,278<sup>08</sup></u>
39	203	Potholing	40.	HR	\$ <u>132<sup>08</sup></u>	\$ <u>5,283<sup>20</sup></u>
40	213	Washed Rock Surface Course for Gravel Driveways. Match Existing Type. Thickness is 2" min. and 3" max.	7.	CY	\$ <u>88<sup>85</sup></u>	\$ <u>621<sup>95</sup></u>
41	304	Subgrade Stabilization (Class 3 Aggregate Base Course)	152.	Tons	\$ <u>18<sup>86</sup></u>	\$ <u>2,866<sup>72</sup></u>



# Bid Schedule: 28 1/2 Road Sewer and Water Line Replacement and Overlay

## Addendum No. 1

**Contractor:** MA CONCRETE CONST

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
42	304	Aggregate Base Course (Class 6)(8" thick )(Water Trench (663))	320.	SY	\$ <u>1126</u>	\$ <u>3603<sup>20</sup></u>
43	304	Aggregate Base Course (Class 6)(8" thick )(San Sew Trench (663))	1,520.	SY	\$ <u>1054</u>	\$ <u>16,020<sup>80</sup></u>
44	304	Aggregate Base Course (Class 6)(10" thick) (689)	1,060.	SY	\$ <u>1375</u>	\$ <u>14,575<sup>00</sup></u>
45	401	Hot Mix Asphalt (2" Thick) (Grading SX-75)(Binder 64-22)(Overlay entire width 28.5 Road)	900.	Tons	\$ <u>93<sup>60</sup></u>	\$ <u>84,240<sup>00</sup></u>
46	401	Hot Mix Asphalt (1" Thick) (Grading SX-75)(Binder 64-22)(Bottom mat in widening areas only to include subgrade prep.)	50.	Tons	\$ <u>130<sup>00</sup></u>	\$ <u>6500<sup>00</sup></u>
47	401	Hot Mix Asphalt (3" Thick) (Grading SX-75)(Water Trench (681))	330.	SY	\$ <u>22<sup>88</sup></u>	\$ <u>7550<sup>40</sup></u>
48	401	Hot Mix Asphalt (3" Thick) (Grading SX-75)(San Sew Trench (681))	1,515.	SY	\$ <u>22<sup>88</sup></u>	\$ <u>34,663<sup>20</sup></u>
49	608	Concrete Drainage Pan	6.	LF	\$ <u>124.80</u>	\$ <u>748<sup>80</sup></u>
50	608	Monolithic Curb Gutter and Sidewalk (6' Wide)	12.	SY	\$ <u>104<sup>00</sup></u>	\$ <u>1248<sup>00</sup></u>
51	608	Concrete Driveway (8" Thick)	4.	SY	\$ <u>138<sup>32</sup></u>	\$ <u>553<sup>28</sup></u>
52	620	Sanitary Facility	1.	lump	\$ <u>520<sup>00</sup></u>	\$ <u>520<sup>00</sup></u>
53	625	Construction Surveying Complete in Place	1.	lump	\$ <u>7280<sup>00</sup></u>	\$ <u>7280<sup>00</sup></u>
54	626	Mobilization	1.	lump	\$ <u>32,240<sup>00</sup></u>	\$ <u>32,240<sup>00</sup></u>
55	629	Reference and Reset Survey	1.	EA	\$ <u>416<sup>00</sup></u>	\$ <u>416<sup>00</sup></u>
56	630	Traffic Control Plan	1.	lump	\$ <u>208<sup>00</sup></u>	\$ <u>208<sup>00</sup></u>
57	630	Traffic Control (Complete In Place)	1.	lump	\$ <u>22,880<sup>00</sup></u>	\$ <u>22,880<sup>00</sup></u>
58	630	Flagging	160.	Hour	\$ <u>26<sup>00</sup></u>	\$ <u>4160<sup>00</sup></u>
59	SP - 1	Striping (Per Plan)	1.	lump	\$ <u>3120<sup>00</sup></u>	\$ <u>3120<sup>00</sup></u>
60	SP-2	Geotechnical Testing - Refer to STANDARD CONTRACT DOCUMENTS FOR CAPITAL IMPROVEMENTS, PAGES RB 1 THROUGH 4.	1.	lump	\$ <u>9360<sup>00</sup></u>	\$ <u>9360<sup>00</sup></u>
MCR		Minor Contract Revisions	---	---	---	\$ <u>37,000.00</u>

**Bid Amount:**

\$ 615,409<sup>29</sup>

**Bid Amount:** SIX HUNDRED FIFTEEN THOUSAND  
FOUR HUNDRED NINETY <sup>29</sup>/<sub>100</sub>

dollars

## BID BOND

KNOW ALL MEN BY THESE PRESENTS,

that we, M.A. Concrete Construction, Inc. (\_\_\_\_ an individual,  
\_\_\_\_ a partnership, X a corporation incorporated in the State of CO) as Principal,  
and Western Surety Company (incorporated in the  
State of SD) as Surety, are held and firmly bound unto the City of Grand  
Junction, Colorado, (hereinafter called "City") in the penal sum of Five Percent of Amount Bid  
\_\_\_\_ dollars (\$ 5%), lawful money of the United States, for the  
payment of which sum we bind ourselves, our heirs, executors, administrators, successors, and  
assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that WHEREAS the Principal has  
submitted the accompanying Bid dated July 27, 2017 for construction of 28 1/2  
Road Sewer and Water Line Replacement and Overlay - IFB-4399-17-DH  
\_\_\_\_ (the Project) for the City and

WHEREAS, the City has required as a condition for receiving said Bid that the Principal deposit  
with the City either a cashier's check or a certified check equivalent to not less than five percent of  
the amount of said Bid or in lieu thereof furnish a Bid Bond for said amount conditioned that in  
event of a failure to execute the proposed Contract for such construction and to provide the required  
Performance and Payment Bonds and Insurance Certificates if the Contract be awarded to the  
Bidder, that said sum be paid immediately to the City as Liquidated Damages and not as a penalty  
for the Principal's failure to perform.

NOW, THEREFORE, if the Principal shall, within the period specified therefore, on the attached  
prescribed forms presented to the Bidder for signature, enter into a written Contract with the City in  
accordance with said Bid as accepted, and give Performance and Payment Bonds with good and  
sufficient Surety, or Sureties, as may be required upon the forms prescribed by the City, for the  
faithful performance and the proper fulfillment of said Contract, provide Certificates of Insurance  
as required by said Contract, and provide all other information and documentation required by the  
Contract Documents, then this obligation shall be void and of no effect, otherwise to remain in full  
force and effect. In the event suit is brought upon this bond by the City and the City prevails, the  
principal and surety shall pay all costs incurred by the City in such suit, including reasonable  
attorneys' fees and costs to be fixed by the Court.

IN WITNESS WHEREOF, the above bound parties have executed this instrument under their several seals the name and corporate seal of each corporate party being hereto affixed and duly signed by its undersigned representative pursuant to authority of its governing board.

Dated this 27th day of July, 2017.

Principal: M.A. Concrete Construction, Inc.

Address: 2323 River Road

Grand Junction, CO 81505

Signed: By: Mat Lounsbury

Title: President

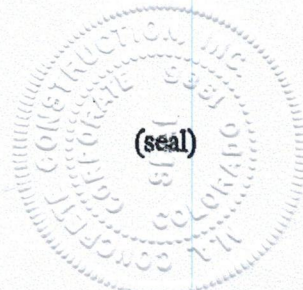
Surety: Western Surety Company

Address: 333 S. Wabash Ave.

Chicago, IL 60604

Signed: By: Tina Marie Post

Title: Tina Marie Post Attorney-in-Fact



#### INSTRUCTIONS FOR COMPLETING BID BOND

1. The full legal name and residence of each individual executing this Bond as Principal must be inserted in the first paragraph.
2. If the Principal is a partnership, the full name of the partnership and all individuals must be inserted in the first paragraph which must recite that individuals are partners composing the partnership, and all partners must execute the Bond as individuals.
3. The State of incorporation of each corporate Principal or Surety to the Bond must be inserted in the first paragraph and the Bond must be executed under the corporate seal of said party attested by its secretary or other appropriate officer.
4. Attach a copy of the power-of-attorney for the Surety's agent.

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Jody L Anderson, Evan E Moody, Karen A Feggstad, Tina Marie Post, Bradley J Moody, David Dondlinger, Individually**

of Denver, CO, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

**- In Unlimited Amounts -**

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 8th day of June, 2017.



WESTERN SURETY COMPANY

Paul T. Bruflat  
Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 8th day of June, 2017, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument, that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal, that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires  
June 23, 2021



J. Mohr  
J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 27th day of July, 2017.



WESTERN SURETY COMPANY

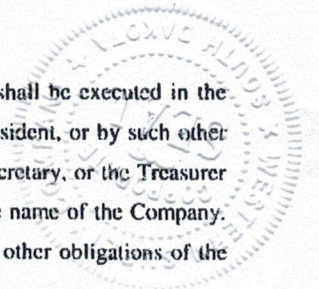
L. Nelson  
L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/13/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Moody-Valley Insurance Agency 760 Horizon Drive, Suite 302  Grand Junction CO 81506		<b>CONTACT NAME:</b> Tina Post <b>PHONE (A/C, No, Ext):</b> (970) 248-8300 <b>FAX (A/C, No):</b> (970) 242-1894 <b>E-MAIL ADDRESS:</b> tina.post@moodyins.com	
<b>INSURED</b> M. A. Concrete Construction, Inc. P. O. Box 1968  Grand Junction CO 81502		<b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A:</b> BITCO Insurance Companies <b>INSURER B:</b> Continental Insurance Company <b>INSURER C:</b> Pinnacol Assurance <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>	
		<b>NAIC #</b> 35289 41190	

**COVERAGES**      **CERTIFICATE NUMBER:** 16/17 Client portal      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			CLP3646434	12/1/2016	12/1/2017	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			CAP3646432	12/1/2016	12/1/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Medical payments \$ 5,000
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CUP2810945	12/1/2016	12/1/2017	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$
B				FFX6045636010- XS OVER UMB	12/1/2016	12/1/2017	EACH OCCURRENCE \$ 3,000,000
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	4195192	9/1/2016	9/1/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Bid Bond: 28 1/2 Road Sewer and Water Line Replacement and Overlay - IFB-4399-17-DH

**CERTIFICATE HOLDER**

City of Grand Junction  
 250 N 5th Street  
 Grand Junction, CO 81501

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Tina Post/TINPOS

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