THE CITY OF COLORADO SPRINGS

REQUEST FOR PROPOSAL

Consultant Services

R26-T008MZ

Date Issued: June 17, 2026

31ST ST & FONTANERO ST ROUNDABOUT CONSTRUCTION MANAGEMENT SERVICES

THE CITY OF COLORADO SPRINGS

The City of Colorado Springs requests Time and Materials (T&M) proposals, as detailed in this Request for Proposal (RFP), for 31st St & Fontanero St Roundabout Construction Management Services.

This RFP is posted to Rocky Mountain E-Purchasing BidNet Direct and the City of Colorado Springs' Procurement Services Website. It is available for all vendors free of charge, following free registration, at the Rocky Mountain E-Purchasing BidNet Direct website.

SUBMITTALS FOR THIS PROJECT WILL ONLY BE ACCEPTED ON THE ROCKY MOUNTAIN E-PURCHASING BIDNET DIRECT PLATFORM.

Please login to the following website to register (Free Registration) to submit a bid for this project. All required documents will be uploaded to the website.

https://www.bidnetdirect.com/

BIDNET Support

800-835-4603

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SECTION I – PROPOSAL INFORMATION

1.0 PROPOSAL INFORMATION

Section I provides general information to potential Offerors, such as proposal submission instructions and other similar administrative elements. This RFP is available on BidNet (www.bidnetdirect.com). All addenda or amendments shall be issued through BidNet and may not be available through any other source.

1.1 RFP SCHEDULE OF EVENTS

The upcoming schedule of events is as follows:

Event	**Date**
Issue Request for Proposal	June 17, 2026
Pre-Proposal Conference	June 23, 2026 9:00AM MDT

We will hold a pre-proposal conference via Microsoft Teams. This meeting is not mandatory. However, all Offerors are encouraged to attend. Please use the link below to attend the meeting:

Microsoft Teams meeting
Join: https://teams.microsoft.com/meet/232550322305945?p=kkBqpqWnFp8lCAri1A
Meeting ID: 232 550 322 305 945
Passcode: R77cP9Wp

Need help? | System reference
Dial in by phone
+1 720-617-3426,,457540736# United States, Denver
Find a local number
Phone conference ID: 457 540 736#

Cut Off Date for Questions	June 29, 2026 1:00PM MDT

Questions about the RFP must be submitted via email to the Contract Specialist below. A written response to any inquiry may be provided in the form of an Amendment to the solicitation. See 1.7 Amendments. Questions must be received no later than 1:00PM MDT June 29, 2026.

Requests for information or support shall be addressed to:

Contract Point of Contact Mike Zeller
Contract Email Address michael.zeller@coloradosprings.gov

DO NOT CONTACT ANY OTHER INDIVIDUAL AT THE CITY OF COLORADO SPRINGS REGARDING THIS SOLICITATION.

The only acceptable method of submitting questions is via BidNet to the Contracting Specialist named above. Faxes, email or physical mail delivery are not acceptable.

Proposal Due Date	July 15, 2026 2:00PM MDT

Interviews (if applicable)	TBD
Award of Contract	EST August 15, 2026
Notice to Proceed	EST September 14, 2026

1.2 SUBMISSION OF PROPOSALS

Proposals are to be submitted electronically on the BidNet Website (www.bidnetdirect.com). Please review the submission requirements *well in advance* of submission date and time; and allow for ample time to upload each required document.

It is recommended that Offerors begin the submission process at least one (1) day in advance of the proposal deadline.

Offerors are solely responsible for ensuring their bid documents are uploaded and submitted correctly, and that a **confirmation number** is obtained upon successful submission.

Customer Support Team for www.bidnetdirect.com can be reached 1-800-835-4603.

1.3 NUMBER OF COPIES

Offerors shall submit **one (1) electronic** copy of the proposal documents. Upon submission, all proposal documents shall become and remain the property of the City of Colorado Springs. Proposals are to be submitted electronically on the BidNet Website (www.bidnetdirect.com).

1.4 SPECIAL TERMS

Please note the following definitions of terms as used herein:

The term “City” means the City of Colorado Springs.

The term “Contractor” or “Consultant” means the Offeror whose offer is accepted and is awarded the contract to provide the products or services specified in the RFP.

The term “Offer” means the proposal.

The term “Offeror” means the person, firm, or corporation that submits a formal proposal or offer and that may or may not be successful in being awarded the contract.

The term “Project” refers to 31st St & Fontanero St Roundabout Construction Management Services.

The term “Request for Proposal” or “RFP” means this solicitation of a formal, negotiable proposal/offer. Any offer that is accepted will be the offer that is deemed by the City of Colorado Springs to be most advantageous in terms of the criteria designated in the RFP.

1.5 RFP OBJECTIVE

The objective of this RFP is to provide sufficient information to enable qualified Offerors to submit written proposals to the City of Colorado Springs. The RFP is not a contractual offer or

commitment to purchase products or services. The Offeror may present options and variables to the scope while still meeting the minimum requirements of this solicitation. Innovative proposals/solutions are encouraged and considered in the selection and/or award.

All information included in proposals must be legible. Any and all corrections and or erasures must be initialed by Offeror. Each proposal shall be accompanied by a cover letter signed by an authorized representative of the Offeror. The contents of the proposal submitted by the successful Offeror may become part of any contract awarded as a result of this solicitation.

1.6 CONFIDENTIAL OR PROPRIETARY INFORMATION

If an Offeror believes that parts of an offer are confidential, then the Offeror must so specify. The Offeror must include in bold letters the term “CONFIDENTIAL” on that part of the offer which the Offeror believes to be confidential. The Offeror must submit in writing specific detailed reasons, including any relevant legal authority, stating why the Offeror believes the material to be confidential. Vague and general claims as to confidentiality will not be accepted. The City of Colorado Springs will be the sole judge as to whether a claim is acceptable. Decisions regarding the confidentiality of information will be made when requests are made to make the information public. All offers and parts of offers, which are not marked as confidential, will automatically be considered public information after the contract is awarded. The successful offer may be considered public information even though parts are marked confidential.

1.7 AMENDMENTS

Amendments to this RFP may be issued at any time prior to the time set for receipt of proposals. Offerors are required to acknowledge receipt of any amendments issued to this RFP by returning a signed copy of each amendment issued. Signed copies of each amendment must be received on or before the time set for receipt of offers.

The City of Colorado Springs will post all amendments on the BidNet Website (www.bidnetdirect.com). It is the Offeror's responsibility to check the website for posted amendments or contact the Contracts Specialist listed to confirm the number of amendments which have been issued.

1.8 WITHDRAWAL OR MODIFICATION OF OFFERS

Any Offeror may modify or withdraw an offer in writing at any time prior to the deadline for submission of an offer.

1.9 ACCEPTANCE

Any offer received and not withdrawn shall be considered an offer, which may be accepted by the City of Colorado Springs based on initial submission without discussions or negotiations.

By submitting an offer in response to this solicitation, the Offeror agrees that any offer it submits may be accepted by the City of Colorado Springs at any time within 90 calendar days from the date of submission deadline.

The City of Colorado Springs reserves the right (a) to reject any or all offers,(b) to waive informalities and minor irregularities in offers received, and/or (c) to accept any portion of an offer if deemed in the best interest of the City of Colorado Springs. Failure of the Offeror to provide in

its offer any information requested in the RFP may result in rejection of the offer for non-responsiveness.

1.10 PROPOSAL PREPARATION COST

The cost of proposal preparation is not a reimbursable cost. Proposal preparation shall be at the Offeror's sole expense and is the Offeror's total and sole responsibility.

1.11 AWARD

The City of Colorado Springs intends to make an award using the evaluation criteria listed in this RFP to determine the best value, considering all factors and criteria in the proposals submitted. Best value means the expected outcome of an acquisition that, in the City's estimation, provides the greatest overall benefit in response to the requirements detailed in the RFP. The City of Colorado Springs reserves the right to reject any or all offers and to not make an award.

1.12 PERFORMANCE PERIOD

The performance period for the project detailed in this RFP will be established as **200 Calendar Days from Notice to Proceed.**

1.13 DEBRIEFING

Offerors not selected may request a debriefing on the selection process as well as discussion of the strengths and weaknesses of their proposal upon receipt of notification that their offer was not selected.

A debriefing may be scheduled by contacting the Contracts Specialist listed above. The Contracts Specialist must receive a written request for debriefing no later than ten (10) calendar days after issuance of a notification that the Offeror's offer was not selected.

1.14 SUBSTANTIVE PROPOSALS

By responding to this RFP, the Offeror certifies (a) that Offeror's proposal is genuine and is not made in the interest of, or on behalf of, an undisclosed person, firm, or corporation; (b) that Offeror has not directly or indirectly induced or solicited any other Offerors to put in a false or sham proposal; (c) that Offeror has not solicited or induced any other person, firm, or corporation to refrain or abstain from proposing an offer or proposal; (d) that Offeror has not sought by collusion to obtain for themselves any advantage over any other Offerors or over the City of Colorado Springs; and (e) that Offeror has not violated or caused any person to violate, and shall not violate or cause any person to violate, the City's Code of Ethics contained in Article 3, of Chapter 1 of the City Code and in the City's Procurement Rules and Regulations.

1.15 OFFEROR'S QUALIFICATIONS

Each Offeror must complete Exhibit 1 – Qualification Statement.

No contract will be awarded to any Offeror who is in arrears to the City, upon any debt or contract, or who is in default, in any capacity, upon any obligation to the City or is deemed to be irresponsible or unreliable by the City based on past performance.

1.16 NON-COLORADO ENTITIES

If Offeror is a foreign entity, Offeror shall comply with C.R.S. section 7-90-801, “Authority to transact business or conduct activities required,” and section 7-90-802, “Consequences of transacting business or conducting activities without authority.”

Before or at the time that the contract is awarded to an entity organized or operating outside the State of Colorado, such entity shall obtain authorization to do business in the State of Colorado, designate a place of business herein, and appoint an agent for service of process.

Such entity must furnish the City of Colorado Springs with a certificate from the Secretary of the State of Colorado to the effect that a certificate of authority to do business in the State of Colorado has been issued by that office and is still valid. The entity shall also provide the City with a certified copy of the designation of place of business and appointment of agent for service of process from the Colorado Secretary of State, or a letter from the Colorado Secretary of State that such designation of place of business and agent for service of process has been made.

1.17 PROCUREMENT RULES AND REGULATIONS

All projects advertised by the City of Colorado Springs are solicited in accordance with the City's Procurement Rules and Regulations. The City's Procurement Rules and Regulations can be reviewed and/or downloaded from the City website www.coloradosprings.gov. The Contracts Specialist may also provide a softcopy of the Rules and Regulations upon request. Any discrepancies regarding conflicting statements, decisions, irregularities, clauses, or specifications will be rectified utilizing the City’s Procurement Rules and Regulations, when applicable. It is the Offeror’s responsibility to advise the Contracts Specialist listed in this RFP of any perceived discrepancies prior to the date and time the offer is due.

1.18 FAIR TREATMENT OF OFFERORS

The City Procurement Services Division shall be responsible for ensuring the procurement of products, commodities, and services are in a manner that affords all responsible businesses a fair and equal opportunity to compete. If an Offeror believes that a procurement is not conducted in a fair and equitable manner, the Offeror is encouraged to inform the City Procurement Services Manager as soon as possible.

1.19 ORDER OF PRECEDENCE

Any inconsistency in this solicitation shall be resolved by giving precedence in the following order:

A. Sections I-IV of this Solicitation
B. Statement of Work
C. Other Appendices, Schedules, Exhibits, or Attachments

1.20 SALES TAX

The successful Offeror, if awarded a contract, shall apply to the Colorado Department of Revenue for a tax-exempt certificate for this project. The certificate does not apply to City of Colorado Springs Sales and Use Tax which shall be applicable and should be included in all proposals. The tax-exempt project number and the exemption certificate only apply to County, PPRTA (Pikes

Peak Rural Transportation Authority), and State taxes when purchasing construction and building materials **to be incorporated into this project**.

Furthermore, the exemption **does not** include or apply to the purchase or rental of equipment, supplies or materials that **do not become a part of the completed project or structure**. In these instances, the purchase or rental is subject to full taxation at the current taxation rate.

The Offeror and all subcontractors shall include in their Offer City of Colorado Springs Sales and Use Tax on the work covered by the offer, and all other applicable taxes.

Forms and instructions can be downloaded at https://coloradosprings.gov/sales-tax. Questions can be directed to the City Sales Tax Division at (719) 385-5903 or SalesTax@coloradosprings.gov.

Our Registration Numbers are as follows:
City of Colorado Springs
Federal I.D.: 84-6000573
Federal Excise: A-138557
State Sales Tax: 98-03479

1.21 INTERPRETATION OF PLANS AND SPECIFICATIONS

Any change to proposal forms, plans, or specifications prior to the opening of proposals will be issued by the City in the form of an Amendment. Certain individuals may be named in the RFP that have authority to provide information, clarification or interpretation to Offerors prior to opening of proposals. Information obtained from persons other than those named individuals is invalid and shall not be used for proposal purposes.

1.22 COMBINATION OR CONDITIONAL PROPOSALS

If an RFP is issued for projects in combination and separately, the Offeror may submit proposals either on the combination or on separate units of the combination. The City reserves the right to make awards on combination or separate proposals to the advantage of the City. Combination proposals will be considered, only when specified.

1.23 ANTI-COLLUSION AFFIDAVIT

The Offeror by signing their proposal submitted to the City is certifying that the Offeror has not participated in any collusion or taken any action in restraint of free competitive bidding. This statement may also be in the form of an affidavit provided by the City and signed by the Offeror. The original of the signed anti-collusion affidavit, if separately required and provided with the RFP, shall be submitted with the proposal. The proposal will be rejected if it does not contain the completed anti-collusion affidavit.

SECTION II – PROPOSAL CONTENT

2.0 PROPOSAL CONTENT

Section II provides instructions regarding the format and content required for proposals submitted in response to this solicitation.

2.1 PROPOSAL FORMAT

Offeror's written proposal should include concise, but complete, information, emphasizing why the Offeror is best or best qualified to provide the required services. The Offeror's written proposal should include the information in the format outlined below and must be limited to no more than twenty-five (25) pages. **A page shall be defined as 8-1/2" x 11"; single sided, with one inch margins, and a minimum font of Times New Roman 10**. The only exception to the 8-1/2" x 11" paper size is the proposed project schedule. It may be submitted on 11" x 17" paper. Each 11" x 17" page for the schedule shall be counted in the overall page limitations above. Each section of the proposal should be labeled to clearly follow the requirements sections identified in this section of the RFP. The following listed Exhibits must be filled out and returned with the proposal and are not counted against the page limit:

Exhibit 1 Solicitation Qualifications Document
Appendix A Hourly Rate Sheet (Submit in Envelope #2)
Acknowledged Addenda, if applicable

2.2 COVER LETTER

The cover letter shall be no more than three pages. The cover letter shall contain at least the following information.

A. RFP Number and Project Name.
B. Statement that the Offeror is qualified to perform the work.
C. Certification Statement that the information and data submitted are true and complete to the best knowledge of the individual signing the letter.
D. Name, telephone number, email address, and physical address of the individual to contact regarding the proposal.
E. The signature of an authorized principal, partner, or officer of the Offeror.

2.3 PROPOSAL CERTIFICATION

The Offeror must fill out and submit Exhibit 1 with its Proposal.

2.4 ORGANIZATIONAL BACKGROUND AND OVERVIEW

The Offeror must provide a brief history and overview of its company and its organizational structure, with special emphasis on how this project will fit within that structure. Also include principal place of business location(s), office locations, and size of firm. Financial stability information (annual public reports or private financial statements shall be included in an appendix or under separate cover; private financial information will be kept confidential by the City) may be requested during the proposal evaluation and award process.

2.5 EXPERTISE AND QUALIFICATIONS

In this section, the Offeror must demonstrate that it meets and/or exceeds all requirements regarding expertise and qualifications of personnel proposed to complete the work defined in the Statement of Work/Scope of Services of this RFP. Qualifications of personnel are considered of the essence of the services provided. Therefore, the Offeror must provide information on Key Personnel who will be the personnel performing the consulting services.

A. Relevant Experience

In the Expertise and Qualifications Area, the Offeror should provide at least three references or identify contracts demonstrating that it successfully provided services/products that are the same or similar to those required in the RFP. The proposal should adequately explain the successful outcomes of the projects. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions.

1. Does the proposal include at least three references or past performance citations?
2. Are the references or past performance citations relevant to the requirements of the Statement of Work of the RFP?
3. Does the Offeror explain how they were successful on the projects provided as past performance?
4. Does the Offeror apply the past performance to the City requirement in such a way as to demonstrate added value due to experience?

B. Key Personnel

In the Expertise and Qualifications Area, resumes must be provided for all personnel who would be performing work on the resultant Contract. Resumes do not count toward the page limit. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions. Explain how the key personnel were related to the projects cited as relevant past performance.

1. Does the Offeror provide complete resumes, including education, experience, background information, accomplishments, and other pertinent information?
2. Does the Offeror provide resumes for all key personnel, as required by the RFP?
3. Do the resumes demonstrate adequate professional, technical, and management levels to accomplish the work effectively and efficiently?
4. Do the key personnel possess all requisite certifications, licenses, experience, etc.?

2.6 PRICE AREA (NOT EVALUATED)

2.7 PROPOSAL PRESENTATION

Presentation is an important factor. Offerors should provide a highly professional product, which is complete, accurate, easily understood, and effectively presented.

2.8 EXCEPTIONS

All Offerors must complete Exhibit 1, Solicitation Qualifications Document, and return it with their proposal. Some terms and conditions are not negotiable. Exceptions may be grounds for rendering the proposal unacceptable without further discussions.

2.9 INSURANCE REQUIREMENTS

All Offerors must complete Exhibit 1, Solicitation Qualifications Document, and return with their proposal. Lack of responsiveness in this area may be grounds for rendering the proposal unacceptable without further discussions.

SECTION III – EVALUATION FACTORS

3.0 EVALUATION AND AWARD

Section III provides information regarding evaluation criteria and scoring. It also includes information regarding proposal selection and award of the resultant contract.

3.1 EVALUATION CRITERIA

3.1.1 EXPERTISE AND QUALIFICATIONS
See Section II – Item 2.5A and 2.5B

3.1.2 PRICE/COST AREA (NOT EVALUATED)
See Section II - Item 2.6

3.1.3 PROPOSAL PRESENTATION AREA
See Section II – Item 2.7

3.1.4 EXCEPTIONS AND INSURANCE
See Section II – Items 2.8 and 2.9

3.2 RANKING

A. The order of ranking or importance in the evaluation shall be as follows per grouping:

First: Expertise and Qualifications Area
Second: Proposal Presentation Area

B. Definitions for scoring are as follows and apply to each grouping:

1. <u>The following apply to the Technical and Management Areas:</u>

   Exceptional – The proposal meets all and exceeds many of the requirements of the RFP to the benefit of the City, and the information provided is of such a nature as to answer all questions without need for further inquiry. There are no corrective actions required, and no compromise of requirements is needed.

   Very Good – The proposal meets all and exceeds some of the requirements of the RFP to the benefit of the City, and the information provided is of such a nature as to answer most questions without need for further inquiry. There are no corrective actions required, and no compromise of requirements is needed.

   Satisfactory – The proposal meets the requirements of the RFP, and the information provided is of such a nature as to answer many questions without need for further inquiry. There are very few corrective actions required, and no substantive compromise of requirements is needed.

   Marginal – The proposal does not meet some of the requirements of the RFP, and the information provided is of such a nature as to require some clarification. There are some corrective actions required, and some non-substantive compromise of requirements is needed.

Unacceptable – The proposal does not meet many of the requirements of the RFP, and the information provided is of such a nature as to require much clarification. There are many corrective actions required, and substantive compromise of requirements is needed.

2. The following apply to the Proposal Presentation Area:

   Exceptional – The proposal meets all and exceeds many of the requirements of the RFP to the benefit of the City, and the information provided is of such a nature as to answer all questions without need for further inquiry. There are no corrective actions required, and no compromise of requirements is needed.

   Very Good – The proposal meets all and exceeds some of the requirements of the RFP to the benefit of the City, and the information provided is of such a nature as to answer most questions without need for further inquiry. There are no corrective actions required, and no compromise of requirements is needed.

   Satisfactory – The proposal meets the requirements of the RFP, and the information provided is of such a nature as to answer many questions without need for further inquiry. There are very few corrective actions required, and no substantive compromise of requirements is needed.

   Marginal – The proposal does not meet some of the requirements of the RFP, and the information provided is of such a nature as to require some clarification. There are some corrective actions required, and some non-substantive compromise of requirements is needed.

   Unacceptable – The proposal does not meet many of the requirements of the RFP, and the information provided is of such a nature as to require much clarification. There are many corrective actions required, and substantive compromise of requirements is needed.

C. Area Scoring

The score for each area will be determined by multiplying the sum of the criteria in each area by the area evaluation factor. The area evaluation factors are as follows:

Expertise and Qualifications Area: .90
Proposal Presentation: .10

3.3 SELECTION COMMITTEE

A selection committee will review all proposals. Through this process, the City will determine which proposals are acceptable or unacceptable. The City will notify, in writing, the Offerors whose proposals are deemed to be unacceptable. Those Offerors offering proposals deemed to be acceptable by the City will be evaluated by grouping and scored by grouping by the selection committee. This scoring will determine which Offerors are considered to be in the competitive range and may be the basis for an award decision without further steps.
If the selection committee elects not to award based upon evaluation scoring, it may engage in a forced elimination process. To inform this process, it may require oral presentations or interviews with the Offerors considered to be in the competitive range. If oral presentations or interviews are conducted, they may also be scored, or they may simply be considered as information supporting the forced elimination process. The selection committee may request revisions to the proposal from each of the Offerors at the conclusion of the interviews. The intent of the forced elimination

process is to reach consensus. The decision will be based on all relevant factors, and based upon perception of best value. The final decision may or may not exactly reflect scoring ranking.

The City also reserves the right to request best and final offers from all Offerors at any point in the proposal evaluation process.

3.4 AWARD OF CONTRACT

It is anticipated that there will be negotiations or discussions with Offerors. However, the City reserves the right to award without negotiations or discussions. The City also reserves the right to award a contract not necessarily or merely to the Offeror with the most advantageous price. The City intends to award to the Offeror that demonstrates the best value to the City and the most substantiated ability to fulfill the requirements contained in this Request for Proposal. A contract prepared by the City will be finalized and/or negotiated with the successful Offeror. In the event a contract cannot be negotiated with the top-ranked Offeror, the City may enter into negotiations with the second highest-ranked Offeror, or the City may decide to call for new proposals. Immediately after the notice of award, the successful Offeror will begin planning in conjunction with the City of Colorado Springs staff (to be designated by the City) to ensure fulfillment of all its obligations. The successful Offeror may be expected to attend regular meetings as required by the City to assist in the preparation for startup.

SECTION IV – SPECIAL CONTRACT TERMS AND CONDITIONS

4.0 SPECIAL CONTRACT TERMS AND CONDITIONS/SPECIAL SOLICITATION PROVISIONS

In addition to the special contract terms and conditions listed below, the City's sample contract provided at Exhibit 2 contains contract terms and conditions.

4.1 ADA STANDARDS

It is a requirement of the City and required by law that any new or renovated facility meet the scoping and technical requirements of the 2010 ADA Standards for newly designed and constructed or altered local government facilities, public accommodations, and facilities. The selected Design Professional shall design the project so it both conforms to the 2010 ADA Standards, as applicable and as amended, and is readily accessible to and usable by individuals with disabilities. The selected Contractor shall build the project so it both conforms to the 2010 ADA Standards, as applicable and as amended, and is readily accessible to and usable by individuals with disabilities. Facilities that are designed, constructed, and/or altered facilities that meet or exceed the IBC 2015/ANSI A117.1 2009, used by Pikes Peak Regional Building Department, will be accepted as meeting or exceeding the 2010 ADA Standards.

GENERAL

Contractor acknowledges the City is subject to Title II of the Americans with Disabilities Act ("ADA") and other laws that prohibit public entities from excluding from participation in, denying the benefits of, or discriminating against qualified individuals with disabilities on the basis of disability in the entity's services, programs, and activities and agrees to comply with the following requirements as applicable to the goods or services that are the subject of this Agreement.

1. Videos for public dissemination must be captioned. This non-inclusive list could include training program videos for the public, for web content or even a museum setting. If the goods or services that are the subject of this Agreement are being purchased by the City to enhance or augment a City program, service, or activity, then the materials must be captioned.
2. Digital documents must be properly formatted and accessible. Digital documents intended for public use must meet accessibility guidelines as required by the City's Administrative Regulation 2020-02, as it now exists or is amended, (examples include: doc, .docx, .xlsx, .pptx, .pdf, .jpg). Exclusions to this requirement can be found on page four (4) of Administrative Regulation 2020-02 and include:
    a. Blueprints
    b. Architectural Drawings
    c. Diagrams displaying information that is also provided in narrative text
    d. Complex and/or atypical images and diagrams
    e. Scanned historical publications
    f. Handwritten correspondence
    g. Technical drawings
    h. Site plans, development plans, and maps
    i. Complex and comprehensive tables and charts

j. Note: Information intended for the public contained in document types excluded under Administrative Regulation 2020-02 must be made available to the City by Contractor in other accessible formats upon request. The City requests that content be delivered in an accessible format regardless of exclusion if possible.
k. More information on document accessibility can be found on the City's Accessible Digital Documents Reference Page

3. Kiosks purchased for public use must adhere to the City's adopted Kiosk Accessibility Standards
4. Software Statement of Accessibility from the vendor is required for all purchases of software for programs the public will use.
    a. A certificate of WCAG 2.0 (AA) or higher minimal compliance will be requested and required. In the alternative the City can accept a certificate of 508 compliance. Typically, these are going to be "plug in play" software programs for such things as vendor payments, customer service surveys and citizen requests. Learn more about the City's Procurement of Accessible Information Technology policy.
5. The City maintains a list of technical resources for other ADA related Works:
    a. ADA/City Standards for Public Right of Way for Sidewalks, Protruding Objects and Vertical Clearance
    b. Pedestrian Accessibility in the Public Way During Construction
    c. ADA Restroom Requirements and Considerations
    d. ADA Requirements and Considerations: Dining and Work Surface Requirements
    e. ADA Requirements and Considerations: Sales and Service Counters

Documentation of Accessibility

Within 10 days of the City's written request, Contractor will provide the City with accessibility testing results and/or other written documentation as assurance and verification of the state of accessibility required. Documentation of accessibility as required by the City's Administrative Regulation 2020-02 and the City's Accessible IT Procurement policy is considered to be:

1. A current VPAT (2020), which can be found at http://www.itic.org/policy/accessibility, or
2. A completed copy of the City's Accessibility Checklist, which can be found at https://coloradosprings.gov/sites/default/files/accessible_it_procurement_002.pdf, or
3. An independent third-party evaluation from an accessibility consultant.

Resolution of Accessibility Matters

The City, in its sole discretion and at its own expense, may choose to obtain an independent assessment of Contractor's compliance with these requirements but will not be responsible for doing so. If the City so chooses to obtain an independent assessment, then upon the City's notice or request to Contractor, Contractor shall:

1. Provide a Point of Contact (including name, address, phone number, and email address) specifically to confer with the project manager on accessibility matters.
2. Promptly respond to complaints about accessibility made or received by the City related to Contractor's performance of this Agreement.

SECTION V – EXHIBITS

5.0 EXHIBITS

Exhibit 1 Solicitation Qualification Documents
Exhibit 2 Sample Contract
Exhibit 3 Scope of Work
Exhibit 4 Construction Plan Set
Exhibit 5 Evaluation Score Sheet

EXHIBIT 1 SOLICITATION QUALIFICATION DOCUMENTS

FOLLOWS THIS PAGE

SOLICITATION QUALIFICATIONS DOCUMENTS

Please complete all sections of this document including the Solicitation Certification, Representations and Certifications, Qualification Statement, Exceptions, Minimum Insurance Requirements, and Signature Page.

Please submit all completed documents with your bid/ proposal and sign the Minimum Insurance Requirements and Signature Page.

Solicitation:

Solicitation Number:

Firm Name: _____ Date: _____

Address: _____

_____

Federal Tax ID #: _____

Tax Classification:

☐ Sole Proprietorship ☐ Partnership ☐ C Corporation

☐ S Corporation ☐ LLC ☐ Nonprofit

DUNS Number: _____

OFFEROR REPRESENTATIVE

Offeror has appointed the following as the offeror's representative and contact for all questions or clarifications in regard to this offeror.

Name: _____

Telephone: _____

E-mail: _____

SOLICITATION CERTIFICATION

PLACE OF BUSINESS

Company's Principal Place of Business

Does Offeror Have an established office or facility in Colorado Springs? ☐ YES ☐ NO

If Yes, Indicate address below if different from principal place of business.

Year Facility Was Established

Percent of Work to be performed from principal place of business.

Percent of Work to be performed from Colorado Springs Facility

INSURANCE

Indicate your ability to provide a certificate of insurance evidencing the required coverage types and limits specified in Minimum Insurance Requirements Exhibit. (The certificate of insurance must reflect the City of Colorado Springs as an Additional Insured, as applicable.)

Initial Here

Indicate your Ability to Comply with the following requirements:

The City and Pikes Peak Rural Transportation Authority (PPRTA) shall be added as an Additional Insured to all liability policies

☐ YES ☐ NO

Your property and liability insurance company is licensed to do business in Colorado

☐ YES ☐ NO

Your property and liability insurance company has an AM best rating of not less than B+ and/or

☐ YES ☐ NO

Worker's Compensation Insurance is carried for all employees and covers work done in Colorado.

☐ YES ☐ NO

Provide the name of your property and liability insurance company here:

FINANCIAL STATEMENTS

☐ Current Financial Statements are not required for this solicitation.

☐ Current Financial Statements are required for this solicitation. Please include financial statements as a separate document with your proposal.

☐
Initial Here

COMPLETED PROPOSAL

Provide the completed and signed proposal. (Proposals must be identified as specified in this RFP document). All required Exhibits are attached.

☐
Initial Here

ACKNOWLEDGE ADDENDUM

Offeror hereby acknowledges receipt of the following amendments, if applicable Offeror agrees that it is bound by all Amendments identified herein.

Addendum #1	*Initial Here*	Dated:
Addendum #2	*Initial Here*	Dated:
Addendum #3	*Initial Here*	Dated:
Additional Addendum, if issued	*Initial Here*	Dated:

REPRESENTATIONS AND CERTIFICATIONS

1. INSURANCE REQUIREMENTS

Offeror shall comply with all insurance requirements and will submit the Insurance Certificates prior to performance start date. If limits are different from the stated amounts, Offeror shall explain variance. Certain endorsements and "additionally insured" statements may require further clarification and specific statements on a project specific basis and should have been described in the Offeror's proposal.

Initial Here #1

2. ETHICS VIOLATIONS

a) The Offeror shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in this clause in its own operations and direct business relationships.
b) Offeror certifies the Offeror has not violated or caused any person to violate, and shall not violate or cause any person to violate, the City's Code of Ethics contained in Article 3, of Chapter 1 of the City Code and in the City's Procurement Rules and Regulations
c) When the Offeror has reasonable grounds to believe that a violation described in this clause may have occurred, the Offeror shall promptly report the possible violation to the City Contracts Specialist in writing.
d) The Offeror must disclose with the signing of this proposal, the name of any officer, director, or agent who is also an employee of the City and any City employee who owns, directly or indirectly, an interest of ten percent (10%) or more in the Offeror's firm or any of its branches.
e) In addition, the Offeror must report any conflict or apparent conflict, current or discovered during the performance of the Contract, to the City Contracts Specialist.
f) The Offeror shall not engage in providing gifts, meals or other amenities to City employees. The right of the Offeror to proceed may be terminated by written notice issued by City Contracts Specialist if Offeror offered or gave a gratuity to an officer, official, or employee of the City and intended by the gratuity to obtain a contract or favorable treatment under a contract.
g) The Offeror shall cooperate fully with the City or any agency investigating a possible violation on behalf of the City. If any violation is determined, the Offeror will properly compensate the City.
h) The Offeror agrees to incorporate the substance of this clause (after substituting "Contractor" for "Offeror") in all subcontracts under this offer.

Initial Here #2

3. COOPERATION WITH OTHER CONTRACTORS

Other City activities/contracts may be in progress or start during the performance of this contract. The Offeror shall coordinate the work harmoniously with the other contractors or City personnel, if applicable.

☐
Initial Here #3

4. INTERNET USE

Should the Offeror require access to City Internet resources in the performance of this requirement, a “Contractor’s Internet Use Agreement” form must be separately signed by each individual having access to the City Network. The completed Contractor’s Internet Use Agreement will be maintained with this agreement. Inappropriate use of the City Network will be grounds for immediate termination of any awarded contact.

☐
Initial Here #4

5. LITIGATION

If awarded a contract, Offeror shall notify the City within five (5) calendar days after being served with a summons, complaint, or other pleading in any matter which has been filed in any federal or state court or administrative agency. The Offeror shall deliver copies of such document(s) to the City's Procurement Services Manager. The term "litigation" includes an assignment for the benefit of creditors, and filings of bankruptcy, reorganization and/or foreclosure.

☐
Initial Here #5

6. CONTRACTOR’S REGISTRATION INFORMATION

Offeror’s firm verifies and states that they are (check all that apply):

☐ Large Business (i.e. do not qualify as a small business or non-profit)

☐ Nonprofit

☐ Small Business

☐ Minority Owned Business/Small Disadvantaged Business

☐ Woman Owned Business

☐ Veteran Owned Business

☐ Service-Disabled Veteran Owned Business

☐ HUBZone Business

Note: The City accepts self-certification for these categories in accordance with Small Business Administration (SBA) standards. The SBA size standards are found on the SBA website https://www.sba.gov/content/am-i-small-business-concern.

☐

Initial Here #6

7. CONTRACTOR PERSONNEL

a) The Offeror shall appoint one of its key personnel as the "Authorized Representative" who shall have the power and authority to interface with the City and represent the Offeror in all administrative matters concerning this proposal and any awarded contract, including without limitation such administrative matters as correction of problems modifications, and reduction of costs.
b) The Authorized Representative shall be the person identified in the Offeror's proposal, unless the Offeror provides written notice to the City naming another person to serve as its Authorized Representative. Communications received by the City Contracts Specialist from the Authorized Representative shall be deemed to have been received from the Offeror.

Name: ☐

Telephone: ☐

E-mail: ☐

☐

Initial Here #7

8. OFFEROR'S CERTIFICATION

The undersigned hereby affirms that:
a) He/She is a duly authorized agent of the Offeror;
b) He/She has read and agrees to the City's standard terms and conditions attached.
c) The offer is presented in full compliance with the collusive prohibitions of the City of Colorado Springs. The Offeror certifies that no employee of its firm has discussed, or

compared the offer with any other offeror or City employee and has not colluded with any other offeror or City employee.

d) The Offeror certifies that it has checked all of its figures, and understands that the City will not be responsible for any errors or omissions on the part of the Offeror in preparing its proposal.

e) By submitting an offer the Offeror certifies that it has complied and will comply with all requirements of local, state, and federal laws, and that no legal requirements have been or will be violated in making or accepting this solicitation.

I hereby certify that I am submitting the proposal based on my company's capabilities to provide quality products and/or services on time.

☐

Initial Here #8

9. OFFEROR CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS:

1. The Offeror certifies to the best of its knowledge and belief, that (i) the Offeror and/or any of its Principals

   ☐ Are ☐ Are Not

   Presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency.

   ☐ Have ☐ Have Not

   Within a three year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, local) contract or subcontract; violation of Federal or state antitrust statutes relation to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, tax evasion, or receiving stolen property; and

   ☐ Are ☐ Are Not

   presently indicated for, or otherwise criminally or civilly charged by a governmental entity with commission of any of the offenses enumerated in any paragraphs above.

2. The Offeror shall provide immediate written notice to the City Contracts Specialist if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reasons of changed circumstances.
3. The certification in paragraph 1. above, is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the City, the

City Contracts Specialist may terminate the contract resulting from this solicitation for default. Termination for default may result in additional charges being levied for the costs incurred by the City to initiate activities to replace the awarded Contractor.

Initial Here #9

10. ACCEPTANCE OF CITY CONTRACTS SPECIALIST'S SOLE AUTHORITY FOR CHANGES

Unless otherwise specified in the Contract, the Offeror hereby agrees that any changes to the scope of work, subsequent to the original contract signing, shall be generated in writing and an approval signature shall be obtained from the City Contracts Specialist prior to additional work performance.

Initial Here #10

11. CITY CONTRACTOR SAFETY PROGRAM

The Offeror hereby agrees to adhere to a worker safety program for contractor employees on a City job site or location. By initialing below, the Offeror has reviewed the information and will abide by the City Policy which is available for review:

https://coloradosprings.gov/finance/page/procurement-regulations-and-documents

Initial Here #11

12. ACCEPTANCE OF CITY ENVIRONMENTALLY PREFERRED PURCHASING (EPP) POLICY

The City of Colorado Springs is committed to buying more environmentally preferable goods and services, as long as they meet performance needs, are available within a reasonable time and at a reasonable cost. The Offeror hereby acknowledges review of this policy by initialing below.

https://coloradosprings.gov/finance/page/procurement-regulations-and-documents

Initial Here #12

13. FRAUD, WASTE, AND ABUSE

Everyone has a duty to report any suspected unlawful act impacting the City of Colorado Springs operations and its enterprises. Anyone who becomes aware of the existence or apparent existence of fraud, waste, and abuse in City of Colorado Springs is encouraged to report such matters to the City Auditor's Office in writing or on the telephone hotline 385-2387 (ADTR). Written correspondence can be mailed to:

City Auditor

P.O. Box 2241

Colorado Springs CO 80901

Or via email FraudHotline@ColoradoSprings.gov. Any of these mechanisms allow for anonymous reporting. For more information, please go to the website https://coloradosprings.gov/cityfraud.

Initial Here #13

QUALIFICATION STATEMENT

This statement will provide information which will enable the City to evaluate the qualifications of your firm and staff with regard to the requirements of this solicitation. Please complete this form in its entirety. If a request in the Qualification Statement is contained in the proposal, indicate the section in the proposal where that information can be found.

1. **TYPE OF LICENSE(S) HELD**

2. **TYPE OF SERVICE TO BE PROVIDED FOR THIS SOLICITATION**

3. **NUMBER OF YEARS IN BUISNESS**

4. **FIRM HSITORY & STAFF QUALIFICATIONS**

   In your proposal provide a brief history of your firm, staff size, and experience. Submit a resume for the project manager and each key personnel assigned to this project.

5. **WHAT OTHER NAME(S) HAS YOUR COMPANY OPERATED UNDER**

   ☐ My Firm has not operated under any other names

6. **HAVE YOU OR YOUR FIRM EVER FAILED TO COMPELTE ANY WORK AWARDED TO YOU?**

   ☐ Yes ☐ No

   If Yes, Please Explain

7. **HAS ANY OFFICER OF PARTNER OF YOUR ORGANIZATION EVER BEEN AN OFFICER OR PARTNER OF ANOTHER ORGANIZATION THAT FIALED TO COMPLETE A CONTRACT WITHIN THE LAST FIVE (5) YEARS?**

☐ Yes ☐ No

If Yes, Please Explain

8. **HAS YOUR FIRM OR ANY PARTNERS OR OFFICERS EVER BEEN INVOVLED IN ANY BANKRUPTCY ACTION?**

☐ Yes ☐ No

If Yes, Please Explain

9. **ARE YOU PRESENTLY INVOVLED IN ANY LITIGATION WITH ANY GOVERNMENT AGENCY?**

☐ Yes ☐ No

If Yes, Please Explain Type, Kind, Plaintiff, Defendant, etc. and state the current status:

10. **BANK REFERENCE**

Bank Name:	
Address:	
Contact:	
Phone #:	
E-mail:	

11. SIMILAR PROJECTS

List Three similar projects (local or state-wide) from the last five (5) years. Include the location of the project, size of project (contract amount), contract name and information. NOTE: Detailed information on these projects may also be requested in the solicitation package

☐ Indicate here if this information is provided within your proposal and Identify where in the proposal it is located.

1. Company:

   Location of Project:

   Contract Amount:

   Contract Period of Performance:

   Company Representative:

   Representative's Title:

   Representative's Address:

   Representative's Phone #:

   Representative's E-mail:

   Brief Description of service/goods provided and how your firm was successful carrying out the scope of work of the contract.

2. Company:

   Location of Project:

   Contract Amount:

   Contract Period of Performance:

   Company Representative:

Representative's Title:

Representative's Address:

Representative's Phone #:

Representative's E-mail:

Brief Description of service/goods provided and how your firm was successful carrying out the scope of work of the contract.

3. Company:

Location of Project:

Contract Amount:

Contract Period of Performance:

Company Representative:

Representative's Title:

Representative's Address:

Representative's Phone #:

Representative's E-mail:

Brief Description of service/goods provided and how your firm was successful carrying out the scope of work of the contract.

12. SIMILAR PROJECTS CURRENTLY UNDER CONTRACT

list three projects currently under contract and in progress (local or state-wide) from the last five (5) years. Include the location of the project, size of project (contract amount), contract name and information. NOTE: Detailed information on these projects may also be requested in the solicitation package

☐ Indicate here if this information is provided within your proposal and Identify where in the proposal it is located.

1. Company:

   Location of Project:

   Contract Amount:

   Contract Period of Performance:

   Company Representative:

   Representative's Title:

   Representative's Address:

   Representative's Phone #:

   Representative's E-mail:

   Brief Description of service/goods provided.

2. Company:

   Location of Project:

   Contract Amount:

   Contract Period of Performance:

   Company Representative:

Representative's Title:

Representative's Address:

Representative's Phone #:

Representative's E-mail:

Brief Description of service/goods provided.

3. Company:

Location of Project:

Contract Amount:

Contract Period of Performance:

Company Representative:

Representative's Title:

Representative's Address:

Representative's Phone #:

Representative's E-mail:

Brief Description of service/goods provided.

13. ADDITIONAL QUALIFICATION REQUIREMENTS

☐ There are no additional qualification requirements for this solicitation.

☐ There are additional qualification requirements as follows:

EXCEPTIONS

Please Indicate below if there are any exceptions taken to any of the terms, conditions, or specifications of these proposal documents or contract.

If there are exceptions taken to any of the terms, conditions, or specifications of the proposal document or contract, they must be clearly stated on an additional document attached to this exhibit and returned with your proposal.

NOTE: All potential Offerors are hereby advised that exceptions taken may be considered during the evaluation phase which may affect the final scoring of proposals. Offerors stipulating that the City must use their contract or agreement may be determined non-responsive and their Proposal determined unacceptable.

Please indicate below:

☐ My Firm has no exceptions.

☐ My Firm does have exceptions. (Attach Exceptions to this exhibit)

MINIMUM INSURANCE REQUIREMENTS

The following listed minimum insurance requirements shall be carried by all contractors and consultants unless otherwise specified in the City's solicitation package, Special Provisions or Standard Specifications.

1. Commercial General Liability for limits not less than $2,000,000 combined single limit for bodily injury and property damage for each occurrence. Coverage shall include:
   a) Premises and Operations
   b) Personal/Advertising Injury
   c) Products/Completed Operations
   d) Liability assumed under an Insured Contract (including defense costs assumed under contact)

2. Workers' Compensation and Employers Liability as required by statute. Workers' Compensation and Employers Liability coverage is to be carried for a minimum limit of $1,000,000.

3. Automobile Liability covering any auto (including owned, hired, and non-owned autos) with a minimum of $1,000,000 each accident combined single limit.

4. Professional Liability Insurance covering any damages caused by an error, omission or any negligent acts with limits of not less than $2,000,000 per occurrence and in the aggregate.
   a) In the event that any professional liability insurance required by this Contract is written on a claims-made basis, Consultant warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained, or an extended discovery period will be exercised for a period of three (3) years beginning at the time work under this Contract is completed.
   b) Policy shall contain a waiver of subrogation against the CITY.

Except for workers' compensation and employer's liability insurance and Professional Liability, the City of Colorado Springs and Pikes Peak Rural Transportation Authority (PPRTA) must be named as an additional insured. Certificates of Insurance must be submitted before commencing the work and provide 30 days' notice prior to any cancellation, non-renewal, or material changes to policies required under the contract.

Name of Company

Signature

Date

SIGNATURE PAGE

By signing below, the Offeror certifies that no person or firm other than the Offeror or as otherwise indicated has any interest whatsoever in this offer or any Contract that may be entered into as a result of this offer and that in all respects the offer is legal and firm, submitted in good faith without collusion or fraud.

The undersigned additionally declares that it has carefully examined the Bid/Proposal information and the complete Solicitation prior to submitting a Bid / Proposal. The Offeror's signature will be considered the Offeror's acknowledgement of understanding and ability to comply with all items in the solicitation.

The undersigned acknowledges and understands the terms, conditions, Specifications and all Requirements contained and/or referenced and are legally authorized by the Offeror to make the above statements or representations.

Signature

Name (Printed)

Company Name

Title

Date

EXHIBIT 2 SAMPLE CONTRACT

CONSULTANT SERVICES CONTRACT

Contract Number:		Project Name/Title	
Vendor/Contractor			
Contact Name:		Telephone:	
Email Address:			
Address:			
Federal Tax ID #		Please check one:	☐ Corporation ☐ Individual ☐ Partnership
City Contracting Specialist		City Dept Rep	Name & Phone# & Department Name
NOT TO EXCEED Contract Amount:		City Account #	Acct Code (5) Fund (3) Dept (4) Project (7)
Contract Type:		Period of Performance	

1. INTRODUCTION

THIS *TYPE* CONTRACT ("Contract") is made and entered into this ___ day of_____, 2024 by and between the City of Colorado Springs, a Colorado municipal corporation and home rule city, in the County of El Paso, State of Colorado, (the "City"), and _____ (the "Contractor").

THE CITY AND THE CONTRACTOR HEREBY AGREE AS FOLLOWS:

The City has heretofore prepared the necessary Contract Documents for the following Activity:

The Contractor did on the ___ day of _____, 2024 submit to the City the Contractor's written offer and proposal to do the work therein described under the terms and conditions therein set forth and furnish all materials, supplies, labor, services, transportation, tools, equipment, and parts for said work in strict conformity with the accompanying Contract Documents, which are attached hereto and incorporated herein by this reference, including the following:

1. This Contract Document
2. Appendix A – Additional Terms and Conditions
3. Appendix B – Contractor's Proposal
4. Appendix C – Statement of WorK
5. Appendix D – Project Schedule
6. Appendix E – Insurance Requirements

2. COMPENSATION/CONSIDERATION

If FFP:

THIS FIRM FIXED PRICE CONTRACT is established at firm fixed amount of $xxxxxxxx.

Subject to the terms and conditions of the Contract Documents, Contractor shall provide all materials, supplies, labor, services, transportation, tools, equipment, and parts to perform XXXXXXXX services for the City of Colorado Springs in a good and workmanlike manner to the satisfaction of the City for the total contract amount designated above and in the Notice of Award, to be paid by the City to the Contractor.

If T&M

Subject to the terms and conditions of the Contract Documents, Contractor shall provide all materials, supplies, labor, services, transportation, tools, equipment, and parts to perform _____ services for the City of Colorado Springs in a good and workmanlike manner to the satisfaction of the City for the estimated price of _____ , not to exceed $_____ ("Not to Exceed estimate"). If the performance of this Contract involves the services of others or the furnishing of equipment, supplies, or materials, the Contractor agrees to pay for the same in full. At the time of payment by the City, the Contractor shall certify in writing that said payments have been so made.

This is a Time and Material (T&M) type contract. The Not to Exceed estimate is in accordance with the Contractor's T&M proposal and rates, as included in the attached proposal, dated XXXXXX. All labor charges shall be in accordance with the T&M rates provided therein. Invoiced hours shall be subject to City review and approval before payable.

The parties estimate that performance of this Contract will not exceed the Not to Exceed estimate. The Contractor shall notify the City Contracts Specialist in writing whenever it has reason to believe that the costs the Contractor expects to incur under this Contract in the following 60 days, when added to all costs previously incurred, will exceed 75 percent of the estimated cost specified herein; or the total cost for the performance of this Contract will be either greater or substantially less than had been previously estimated. As part of the notification, the Contractor shall provide the Contracts Specialist a revised estimate of the total cost of performing this Contract.

The City is not liable for any costs above the Not to Exceed estimate, and the Contractor is not obligated to continue performance under this Contract (including actions under the Termination clause of this Contract) or otherwise incur costs in excess of the Not to Exceed estimate specified herein, until the City Contracts Specialist

Notifies the Contractor in writing that the estimated cost has been increased and provides a revised estimated total not to exceed price of performing this Contract.

3. TERM OF CONTRACT

It is further agreed that the Contractor will start work promptly and continue to work diligently until completed. The Contract Period of Performance shall be as follows:

Performance Period	Dates	Price
Base Year:		
Option Year One:		
Option Year Two:		

Option Year Three:
Option Year Four:

Option years may be exercised unilaterally by the City at the City's sole discretion. Pricing for option years shall be as indicated above. The City may elect not to exercise an option at any time before start of an option at no additional cost to the City. Further, the City shall have the unilateral option of extending services beyond the term of the Contract, including all options, for a period not to exceed a total of six (6) months if additional time is necessary to solicit and award a new Contract. Options to extend services shall be exercised upon written notification (mailed or otherwise furnished) to the Contractor at least fifteen (15) days prior to the expiration date of the Contract, or to extend Contract for up to four additional one year option periods at the City's sole discretion.

The total value of this Contract for all years shall not exceed $XXXXXXX. The value and current funding is $XXXXXXXX for the base year.

OR

Contractor will start work promptly after the Notice to Proceed and continue to work diligently until completed. The Contractor shall complete all work on an as ordered basis throughout the Contract period which is _____ Calendar Days after the Notice-to-Proceed ("Period of Performance") as per the specifications and drawings.

The Contractor shall provide a two-year guarantee on all work performed under this Contract after the job has been completed and accepted.

4. INSURANCE

The Contractor shall provide and maintain acceptable Insurance Policy(s) consistent with the Minimum Insurance Requirements attached as Appendix E, which includes Property, Liability and Professional Errors and Omissions coverage, and as otherwise listed in Appendix E. The City of Colorado Springs shall be reflected as an additional insured on the Property and Liability policy(s).

Further, Contractor understands and agrees that Contractor shall have no right of coverage under any existing or future City comprehensive, self, or personal injury policies. Contractor shall provide insurance coverage for and on behalf of Contract that will sufficiently protect Contractor, or Contractor's agents, employees, servants or other personnel, in connection with the services which are to be provided by Contractor pursuant to this Contract, including protection from claims for bodily injury, death, property damage, and lost income. Contractor shall provide worker's compensation insurance coverage for Contractor and all Contractor personnel. Contractor shall file applicable insurance certificates with the City and shall also provide additional insurance as indicated in this Contract. ***A CURRENT CERTIFICATE OF INSURANCE IS REQUIRED PRIOR TO COMMENCEMENT OF SERVICES LISTING THE CITY AS ADDITIONALLY INSURED.***

5. RESPONSIBILITY OF THE CONTRACTOR

A. Contractor shall satisfactorily perform the professional services for all phases of the Project as indicated in Statement of Work, which is attached hereto and made a part hereof by reference.

B. Upon completion of any phase or sub-phase, Contractor shall not proceed with work on the next phase or sub-phase, if any, until authorized in writing by City to proceed therewith.

C. Such services shall include all usual and customary professional engineering services and the furnishing (directly or through its professional consultants) of customary and usual civil, structural, mechanical, electrical engineering, environmental, architectural and planning services. Unless expressly excepted, in Appendix A - Statement of Work hereto, Contractor shall also provide any other environmental, geotechnical, architectural, landscape architectural and surveying services incidental to its work on the Project. If architectural services are rendered, Contractor shall provide an attested statement on each drawing sheet that certifies the design complies with all applicable provisions of the Americans with Disabilities Act. In performing the professional services, Contractor shall complete the work items described generally in Statement of Work and the items identified in this Section 5 of this Contract which are applicable to each phase for which Contractor is to render professional services.

D. Professional engineering services (whether furnished directly or through a professional consultant subcontract) shall be performed under the direction and supervision of a registered Professional Engineer in good standing and duly licensed to practice in the State of Colorado. Reproductions of final drawings for construction produced under this Contract shall be the same as at least one record set which shall be furnished to City and which shall be signed by and bear the seal of such registered Professional Engineer.

E. Surveying work included within or reasonably contemplated by this Contract shall be performed under the direction and supervision of a registered Professional Land Surveyor in good standing and duly licensed to practice in the State of Colorado. All plats and surveys produced under this Contract shall be signed by and bear the seal of said Professional Land Surveyor.

F. Any architectural services provided under this Contract shall be performed under the direction and supervision of an architect duly licensed and authorized.

G. All drawings and specifications furnished by the Contractor under this Contract (“Drawings” and “Specifications”) shall comply with all applicable building codes and requirements of regulatory agencies having any approval authority. Final design, including Drawings and Specifications, shall also comply with the 2010 ADA Standards for Accessible Design now existing and as may be amended, supplemented, or superseded from time to time (“ADA Standards”). Contractor shall include an attest statement on each record drawing sheet of final plan drawings that certifies that the design is compliant with the ADA Standards.

H. The Contractor shall be responsible for the professional quality, technical accuracy, timely completion and the coordination of all designs, drawings, specifications, and other Statement of Work services furnished by the Contractor under this Contract, including that performed by Contractor’s consultants, and including designs, Drawings, Specifications, reports and other services, irrespective of City’s approval or acquiescence in same. The Contractor shall, without additional compensation, correct or revise any errors or deficiencies in services provided under this Contract to the satisfaction of the City.

I. Contractor shall be responsible, in accordance with applicable law, to City for all loss or damage to City caused by Contractor's negligent act or omission; except that Contractor hereby irrevocably waives and excuses City and its attorneys from compliance with any requirement to obtain a certificate of review as a condition precedent to commencement of an

action, including any such requirements set forth in Section 13-20-602, C.R.S. or similar statute.

J. Contractor's professional responsibility shall comply with the standard of care applicable to the type of engineering and architectural services provided, commensurate with the size, scope and nature of the Project.

K. Contractor shall be completely responsible for the safety of Contractor's employees in the execution of work under this Contract, shall provide all necessary safety equipment for said employees, and shall hold harmless and indemnify and defend City from any and all claims, suits, losses or injuries to Contractor's employees.

L. Contractor acknowledges that, due to the nature of engineering and related professional services and the impact of same on the Project, City has a substantial interest in the personnel and consultants to whom Contractor assigns principal responsibility for services performed under this Contract. Consequently, Contractor represents that Contractor has selected and intends to employ or assign the key personnel and consultants identified in Appendix ___ - "Identification of Personnel, Subcontractors and Task Responsibility", attached hereto for the Project assignments and areas of responsibility stated therein. Within 10 days of execution of this Contract, City shall have the right to object in writing to employment on the Project of any such key person, consultant or assignment of principal responsibility, in which case Contractor will employ alternate personnel for such function or reassign such responsibility to another to whom City has no reasonable objection. Thereafter, Contractor shall not assign or reassign Project work to any person to whom City has reasonable objection.

   The key personnel listed in Appendix ___ - "Identification of Personnel, Subcontractors and Task Responsibility" will be the individuals used in the performance of the work unless objected to by the City as provided in the immediately preceding paragraph. If any of the listed key personnel leave employment or are otherwise not utilized in the performance of the work, approval to substitute must be obtained by the Contractor from the City's delegated Project Manager. Any substitute shall have the same or a higher standard of qualifications that the key personnel possessed at the time of Contract award.

   Within 5 days of execution of this Contract, Contractor shall designate in writing a Project representative who shall have complete authority to bind Contractor, and to whom City should address communications.

M. Promptly after execution of this Contract and upon receipt of authorization from City to proceed, Contractor shall submit to City for approval a schedule showing the order in which Contractor proposes to accomplish its work, with dates on which it will commence and complete each major work item. The schedule shall provide for performance of the work in a timely manner so as to not delay City's time table for achievement of interim tasks and final completion of Project work, provided however, the Contractor will not be responsible for delays beyond its control.

N. Before undertaking any work which Contractor considers beyond or in addition to the scope of work and services which Contractor has contractually agreed to perform under the terms of this Contract, Contractor shall advise City in writing (i) that Contractor considers the work beyond the scope of this Contract, (ii) the reasons the Contractor believes the out of scope or additional work should be performed, and (iii) a reasonable estimate of the cost of such work. Contractor shall not proceed with such out of scope or additional work until authorized in

writing by City. The compensation for such authorized work shall be negotiated, but in the event the Parties fail to negotiate or are unable to agree as to compensation, then Contractor shall be compensated for his direct costs and professional time at the rates set forth in Appendix ___ - "Fee Schedule".

O. Design within Funding Limitation: The Contractor shall accomplish the design services required under this Contract so as to permit the award of a construction contract at a price that does not exceed the estimated construction contract price plus ten percent (10%) as set forth below.

1. When lowest responsive and responsible bids or proposals for the construction contract are received that exceed the estimated price, the Contractor shall perform such redesign and other services as are necessary to permit contract award within the funding limitation. These additional services shall be performed at no increase in the price of this Contract. However, the Contractor shall not be required to perform such additional services without additional compensation if the unfavorable bids or proposals are the result of conditions beyond its reasonable control i.e. City directed scope changes, unknown design problems are encountered, or a volatile construction market at the time of bid as compared to the construction market at the date this Contract is executed.

2. The Contractor must promptly advise the Project Manager if it finds that the Project being designed will exceed or is likely to exceed the funding limitations and it is unable to design the Project within the funding limitation.

3. The estimated construction contract price for the Project described in this Contract is $XXXXXXXX (plus 10%).

P. The City's review, approval of, acceptance of, or payment for the services required under this Contract shall not be construed to operate as a waiver of any rights under this Contract or of any cause of action arising out of the performance of this Contract, and the Contractor shall be and remain liable to the City for any and all damages to the City caused by the Contractor's negligent performance of any of the services furnished under this Contract.

Q. The rights and remedies of the City provided for under this Contract are in addition to any other rights and remedies provided by law.

R. If the Contractor is comprised of more than one legal entity, each such entity shall be jointly and severally liable hereunder.

S. The Contractor shall be obligated to provide services as an expert witness in connection with any public hearings or legal "proceedings" for a period of five (5) years following the completion of the Project. The Contractor shall be reimbursed for such service unless the basic issue of such hearing or "proceeding" concerns sufficiency of the Contractor services as outlined in this Contract. The Contractor hereby agrees to relieve the City from all claims and liability due to the Contractor's negligence.

T. The design of architectural, structural, mechanical, electrical, civil, or other engineering features of the work to be performed under this Contract shall be accomplished or reviewed and approved by architects or engineers registered in the state of Colorado to practice in the professional field involved.

6. WORK OVERSIGHT

A. The extent and character of the work to be done by the Contractor shall be subject to the general approval of the City's delegated Project Manager.

B. If any of the work or services being performed does not conform with Contract requirements, the City may require the Contractor to perform the work or services again in conformity with Contract requirements, at no increase in Contract amount. When defects in work or services cannot be corrected by re-performance, the City may (1) require the Contractor to take necessary action to ensure that future performance conforms to Contract requirements and (2) reduce the Contract price to reflect the reduced value of the work or services performed.

C. If the Contractor fails to promptly perform the defective work or services again or to take the necessary action to ensure future performance is in conformity with Contract requirements, the City may (1) by Contract or otherwise, perform the services and charge to the Contractor any cost incurred by the City that is directly related to the performance of such work or service or (2) terminate the Contract for breach of contract.

7. SUBCONTRACTORS, ASSOCIATES, AND OTHER CONTRACTORS

A. Any subcontractor, outside associates, or other contractors used by the Contractor in connection with Contractor's work under this Contract shall be limited to individuals or firms that are specifically identified by the Contractor in the Contractor's proposal and agreed to by the City. The Contractor shall obtain the City's Project Manager's written consent before making any substitution of these subcontractors, associates, or other contractors.

B. The Contractor shall include a flow down clause in all of its subcontracts, agreements with outside associates, and agreements with other contractors. The flow down clause shall cause all of the terms and conditions of this Contract, including all of the applicable parts of the Contract Documents, to be incorporated into all subcontracts, agreements with outside associates, and agreements with other contractors. The flow down clause shall provide clearly that there is no privity of contract between the City and the Contractor's subcontractors, outside associates, and other contractors.

8. KEY PERSONNEL

The key personnel listed in the proposal and/or below will be the individuals used in the performance of the work. If any of the listed key personnel leave employment or are otherwise not utilized in the performance of the work, approval to substitute must be obtained by the Contractor from the City's Project Manager. Any substitute shall have the same or a higher standard of qualifications that the key personnel possessed at the time of Contract award.

9. START AND CONTINUANCE OF WORK

It is further agreed that the Contractor will start work promptly and continue to work diligently until this Contract is completed.

10. APPROPRIATION OF FUNDS

This Contract is expressly made subject to the limitations of the Colorado Constitution and Section 7-60 of the Charter of the City of Colorado Springs. Nothing herein shall constitute, nor be deemed

to constitute, the creation of a debt or multi-year fiscal obligation or an obligation of future appropriations by the City Council of Colorado Springs, contrary to Article X, § 20, Colo. Const., or any other constitutional, statutory, or charter debt limitation. Notwithstanding any other provision of this Contract, with respect to any financial obligation of the City which may arise under this Agreement in any fiscal year after the year of execution, in the event the budget or other means of appropriation for any such year fails to provide funds in sufficient amounts to discharge such obligation, such failure (i) shall act to terminate this Contract at such time as the then-existing and available appropriations are depleted, and (ii) neither such failure nor termination shall constitute a default or breach of this Contract, including any sub-agreement, attachment, schedule, or exhibit thereto, by the City. As used herein, the term “appropriation” shall mean and include the due adoption of an appropriation ordinance and budget and the approval of a Budget Detail Report (Resource Allocations) which contains an allocation of sufficient funds for the performance of fiscal obligations arising under this Contract.

11. CHANGES

The Contractor and the City agree and acknowledge as a part of this Contract that no change order or other form or order or directive may be issued by the City which requires additional compensable work to be performed, which work causes the aggregate amount payable under the Contract to exceed the amount appropriated for this Contract as listed above, unless the Contractor has been given a written assurance by the City that lawful appropriations to cover the costs of the additional work have been made or unless such work is covered under a remedy-granting provision of this Contract. The Contractor and the City further agree and acknowledge as a part of this Contract that no change order or other form or order or directive which requires additional compensable work to be performed under this Contract shall be issued by the City unless funds are available to pay such additional costs, and, regardless of any remedy-granting provision included within this Contract, the Contractor shall not be entitled to any additional compensation for any change which increases or decreases the Contract completion date, or for any additional compensable work performed under this Contract, and expressly waives any rights to additional compensation, whether by law or equity, unless, prior to commencing the additional work, the Contractor is given a written change order describing the change in Contract completion date or the additional compensable work to be performed, and setting forth the amount of compensation to be paid, and such change order is signed by the authorized City representative, as defined below. The amount of compensation to be paid, if any, shall be deemed to cover any and all additional, direct, indirect or other cost or expense or profit of the Contractor whatsoever. It is the Contractor's sole responsibility to know, determine, and ascertain the authority of the City representative signing any change order under this Contract.

No change, amendment, or modification to this Contract shall be valid unless duly approved and issued in writing by the City of Colorado Springs Procurement Services Division. The City shall not be liable for any costs incurred by the Contractor resulting from work performed for changes not issued in writing by the City of Colorado Springs Procurement Services Division.

The following personnel are authorized to sign changes, amendments, or modifications to this Contract.

The Department Manager: up to $149,999.99
The City of Colorado Springs Deputy Chief of Staff: $150,000.00 to $499,999.99
The City of Colorado Springs Chief of Staff: $500,000.00 to $1,999,999.99
The Mayor of Colorado Springs: Unlimited

12. ASSIGNMENT

No assignment or transfer by the Contractor of this Contract or any part thereof or of the funds to be received thereunder by the Contractor will be recognized unless such assignment has had the prior written approval of the City and the surety has been given due notice of such assignment. Such written approval by the City shall not relieve the Contractor of the obligations under the terms of this Contract. In addition to the usual recitals in assignment contracts, the following language must be included in the assignment:

It is agreed that the funds to be paid to the assignee under this assignment are subject to a prior lien for services rendered or materials supplied for the performance of the work called for in said contract in favor of all persons, firms, or corporations rendering such services or supplying such materials.

13. CHOICE OF LAW

This Contract is subject to and shall be interpreted under the law of the State of Colorado, and the Charter, City Code, Ordinances, Rules and Regulations of the City of Colorado Springs, Colorado, a Colorado home rule city. Court venue and jurisdiction shall be exclusively in the Colorado District Court for El Paso County, Colorado. The Parties agree that the place of performance for this Contract is deemed to be in the City of Colorado Springs, El Paso County, State of Colorado. The Contractor shall ensure that the Contractor and the Contractor's employees, agents, officers and subcontractors are familiar with, and comply with, applicable Federal, State, and Local laws and regulations as now written or hereafter amended.

14. WORKERS' COMPENSATION INSURANCE

Contractor shall take out and maintain during the Period of Performance, Colorado Worker's Compensation Insurance for the Contractor and all employees of the Contractor. If any service is sublet by the Contractor, the Contractor shall require the subcontractor to provide the same coverage for the subcontractor and subcontractor's employees. Workers' Compensation Insurance shall include occupational disease provisions covering any obligations of the Contractor in accord with the provisions of the Workers' Compensation Act of Colorado.

15. INDEMNIFICATION

Contractor agrees that the Contractor shall indemnify, defend and hold harmless the City, its officers, employees and agents, from and against any and all loss, damage, injuries, claims, cause or causes of action, or any liability whatsoever resulting from, or arising out of, or in connection with the Contractor's obligations or actions under this Contract caused by any willful or negligent error, omission or act or a failure to observe any applicable standard of care by the Contractor or any person employed by it or anyone for whose acts the Contractor is legally liable. In consideration of the award of this Contract, to the extent damages are covered by insurance, the Contractor agrees to waive all rights of subrogation against the City, its subsidiary, parent, associated and/or affiliated entities, successors, or assigns, its elected officials, trustees, employees, agents, and volunteers for losses arising from the work performed by the Contractor for the City. The indemnification obligation shall survive the expiration or termination of this Contract.

16. INDEPENDENT CONTRACTOR

In the performance of the Contractor's obligations under this Contract, it is understood, acknowledged and agreed between the parties that the Contractor is at all times acting and performing as an independent contractor, and the City shall neither have nor exercise any control or direction over the manner and means by which the Contractor performs the Contractor's obligations under this Contract, except as otherwise stated within the Contract terms. The City shall not provide any direction to the Contractor on the work necessary to complete the project. Contractor understands that it is an independent contractor responsible for knowing how to perform all work or tasks necessary to complete project. The Contractor understands and agrees that the Contractor and the Contractor's employees, agents, servants, or other personnel are not City employees. The Contractor shall be solely responsible for payment of salaries, wages, payroll taxes, unemployment benefits or any other form of compensation or benefit to the Contractor or any of the Contractor's employees, agents, servants or other personnel performing services or work under this Contract, whether it is of a direct or indirect nature. Further in that regard, it is expressly understood and agreed that for such purposes neither the Contractor nor the Contractor's employees, agents, servants or other personnel shall be entitled to any City payroll, insurance, unemployment, worker's compensation, retirement or any other benefits whatsoever.

17. APPLICABLE LAW AND LICENSES

In the conduct of the services or work contemplated in this Contract, the Contractor shall ensure that the Contractor and all subcontractors comply with all applicable state, federal and City and local law, rules and regulations, technical standards or specifications. The Contractor shall qualify for and obtain any required licenses prior to commencement of work.

18. PRIOR AGREEMENTS

This is a completely integrated Contract and contains the entire agreement between the parties. Any prior written or oral agreements or representations regarding this Contract shall be of no effect and shall not be binding on the City. This Contract may only be amended in writing, and executed by duly authorized representatives of the parties hereto.

19. INTELLECTUAL PROPERTY

The Parties hereby agree, and acknowledge, that all products, items writings, designs, models, examples, or other work product of the Contractor produced pursuant to this Contract are works made for hire, and that the City owns, has, and possesses any and all ownership rights and interests to any work products of the Contractor made under this Contract, including any and all copyright, trademark, or patent rights, and that compensation to the Contractor for Agreement and acknowledgment of this intellectual property right section of this Contract is included in any compensation or price whatsoever paid to the Contractor under this Contract. It is the intent of the parties that the City shall have full ownership and control of the Contractor's work products produced pursuant to this Contract, and the Contractor specifically waives and assigns to the City all rights which Contractor may have under the 1990 Visual Artists Rights Act, federal, and state law, as now written or later amended or provided. In the event any products, items writings, designs, models, examples, or other work product produced pursuant to this Contract is deemed by a court of competent jurisdiction not to be a work for hire under federal copyright laws, this intellectual property rights provision shall act as an irrevocable assignment to the City by the Contractor of any and all copyrights, trademark rights, or patent rights in the Contractor's products, items writings, designs, models, examples, or other work product produced pursuant to this Contract, including all rights in perpetuity. Under this irrevocable assignment, the Contractor hereby assigns to the City the sole and exclusive right, title, and interest in and to the Contractor's

products, items writings, designs, models, examples, or other work product produced pursuant to this Contract, without further consideration, and agrees to assist the City in registering and from time to time enforcing all copyrights and other rights and protections relating to the Contractor's products, items writings, designs, models, examples, or other work product in any and all countries. It is the Contractor's specific intent to assign all right, title, and interest whatsoever in any and all copyright rights in the Contractor's products, items writings, designs, models, examples, or other work product produced pursuant to this Contract, in any media and for any purpose, including all rights of renewal and extension, to the City. To that end, the Contractor agrees to execute and deliver all necessary documents requested by the City in connection therewith and appoints the City as Contractor's agent and attorney-in-fact to act for and in Contractor's behalf and stead to execute, register, and file any such applications, and to do all other lawfully permitted acts to further the registration, prosecution, issuance, renewals, and extensions of copyrights or other protections with the same legal force and effect as if executed by the Contractor; further, the parties expressly agree that the provisions of this intellectual property rights section shall be binding upon the parties and their heirs, legal representatives, successors, and assigns.

20. WAIVERS

No waiver of default by the City of any of the terms, covenants, and conditions hereof to be performed, kept, and observed by the Contractor shall be construed, or shall operate, as a waiver of any subsequent default of any of the terms, covenants, or conditions herein contained to be performed, kept, and observed by the Contractor.

21. THIRD PARTIES

It is expressly understood and agreed that enforcement of the terms and conditions of this Contract, and all rights of action relating to such enforcement, shall be strictly reserved to the Parties hereto, and nothing contained in this Contract shall give or allow any such claim or right of action by any other or third person or entity on such Contract. It is the express intention of the Parties hereto that any person or entity, other than the Parties to this Contract, receiving services or benefits under this Contract shall be deemed to be incidental beneficiaries only.

22. TERMINATION

A. Termination for Convenience.
   By signing this Contract, Contractor represents that it is a sophisticated business and enters into the Contract voluntarily, has calculated all business risks associated with this Contract, and understands and assumes all risks of being terminated for convenience, whether such risks are known or not known. Contractor agrees that the City may terminate this Contract at any time for convenience of the City, upon written notice to the Contractor. Contractor expressly agrees to and assumes the risk that the City shall not be liable for any costs or fees of whatsoever kind and nature if termination for convenience occurs before Contractor begins any work or portion of the work. Contractor further expressly agrees and assumes the risks that the City shall not be liable for any unperformed work, anticipated profits, overhead, mobilizations costs, set-up, demobilization costs, relocation costs of employees, layoffs or severance costs, administrative costs, productivity costs, losses on disposal of equipment or materials, cost associated with the termination of subcontractors, costs associated with purchase orders or purchases, or any other costs or fees of any kind and nature, if Contractor has started or performed portions of the Contract prior to receiving notice from the City. The City shall be liable only for the portions of work Contractor actually satisfactorily completed up

to the point of the issuance of the Notice of Termination for convenience. Upon receipt of this notice the Contractor shall immediately: discontinue all services affected (unless the notice directs otherwise), and deliver to the City all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this Contract, whether completed or in process.

B. Termination for Cause: The occurrence of any one or more of the following events ("Event of Default") will justify termination for cause:
   i. Contractor's failure to perform the work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule as adjusted from time to time.
   ii. Contractor's disregard of the laws or regulations of any public body having jurisdiction.
   iii. Contractor's disregard of the authority of Project Manager.
   iv. Contractor's violation in any material provision of the Contract Documents.
   v. Contractor's failure to make prompt payments to its subcontractors, and suppliers of any tier, or laborers or any person working on the work by, through, or under the Contractor or any of them, any all of their employees, officers, servants, members, and agents.
   vi. Contractor files a petition commencing a voluntary case under the U.S. Bankruptcy Code, or for liquidation, reorganization, or an arrangement pursuant to any other U.S. or state bankruptcy Laws, or shall be adjudicated a debtor or be declared bankrupt or insolvent under the U.S. Bankruptcy Code, or any other federal or state laws relating to bankruptcy, insolvency, winding-up, or adjustment of debts, or makes a general assignment for the benefit of creditors, or admits in writing its inability to pay its debts generally as they become due, or if a petition commencing an involuntary case under the U.S. Bankruptcy Code or an answer proposing the adjudication of Contractor as a debtor or bankrupt or proposing its liquidation or reorganization pursuant to the Bankruptcy Code or any other U.S. federal or state bankruptcy laws is filed in any court and Contractor consents to or acquiesces in the filing of that pleading or the petition or answer is not discharged or denied within sixty (60) Calendar Days after it is filed.
   vii. A custodian, receiver, trustee or liquidator of Contractor, all or substantially all of the assets or business of Contractor, or of Contractor's interest in the Work or the Contract, is appointed in any proceeding brought against Contractor and not discharged within sixty (60) Calendar Days after that appointment, or if Contractor shall consent to or acquiesces in that appointment.
   viii. Contractor fails to commence correction of defective work or fails to correct defective work within a reasonable period of time after written notice.

If one or more of the events identified in Paragraphs i-viii above occur, City may give Contractor written notice of the event and direct the event be cured. Any such Notice to Cure will provide Contractor a minimum of ten (10) calendar days to prepare and submit to the Project Manager a plan to correct the Event of Default. If such plan to correct the Event of Default is not submitted to the Project Manager within ten (10) days after the date of the written notice or such plan is unacceptable to the City, the City may, give Contractor (and the Surety, if any) written notice that Contractor's services are being terminated for cause. Upon delivery of the termination notice, City may terminate the services of Contractor in whole or in part, exclude Contractor from the site, and take possession of the work and of all Contractor's tools, appliances, equipment, and machinery at the project site, and use the same to the full extent they could be used by Contractor (without liability to Contractor for trespass or conversion), incorporate in the work all materials and equipment stored at the site or for which City has paid Contractor but which are stored elsewhere, and finish the work as City may deem expedient. In such case, Contractor shall not be entitled to receive any further payment until Certificate of Completion of the work. In the event City

terminates this Contract for Cause and the cost of completing the work exceeds the unpaid balance of the Contract price, Contractor shall pay City for any costs of completion which exceed the Contract price when combined with all amounts previously paid to Contractor. When exercising any rights or remedies under this paragraph City shall not be required to obtain the lowest price for the work performed. Should the cost of such completion, including all proper charges, be less than the original Contract price, the amount so saved shall accrue to the City. Neither the City nor any officer, agent or employee of the City shall be in any way liable or accountable to the Contractor or the Surety for the method by which the completion of the said work, or any portion thereof, may be accomplished or for the price paid.

Where Contractor's services have been so terminated by City, the termination will not affect any rights or remedies of City against Contractor or Surety then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by City will not release Contractor from liability.

C. Termination Notice. Upon receipt of a termination notice, whether for convenience or cause, the Contractor shall immediately: discontinue all services affected (unless the notice directs otherwise), and deliver to the City all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this Contract, whether completed or in process.

D. Removal of Equipment. Except as provided above, in the case of termination of this Contract before completion from any cause whatever, the Contractor, if notified to do so by the City, shall promptly remove any part or all of Contractor's equipment and supplies from the property of the City, failing which the City shall have the right to remove such equipment and supplies at the expense of the Contractor.

23. BOOKS OF ACCOUNT AND AUDITING

The Contractor shall make available to the City if requested, true and complete records, which support billing statements, reports, performance indices, and all other related documentation. The City's authorized representatives shall have access during reasonable hours to all records, which are deemed appropriate to auditing billing statements, reports, performance indices, and all other related documentation. The Contractor agrees that it will keep and preserve for at least seven years all documents related to the Contract which are routinely prepared, collected or compiled by the Contractor during the performance of this Contract.

The City's Auditor and the Auditor's authorized representatives shall have the right at any time to audit all of the related documentation. The Contractor shall make all documentation available for examination at the Auditor's request at either the Auditor's or Contractor's offices, and without expense to the City.

24. COMPLIANCE WITH IMMIGRATION REFORM AND CONTROL ACT OF 1986

Contractor certifies that Contractor has complied with the United States Immigration Reform and Control Act of 1986. All persons employed by Contractor for performance of this Contract have completed and signed Form I-9 verifying their identities and authorization for employment.

25. LABOR

The Contractor shall employ only competent and skilled workmen and foremen in the conduct of work on this Contract. The Contractor shall at all times enforce strict discipline and good order among Contractor's employees. The Project Manager shall have the authority to order the removal from the work of any person, including Contractor's or any subcontractor's employees, who refuses or neglects to observe any of the provisions of these Plans or Specifications, or who is incompetent, abusive, threatening, or disorderly in conduct and any such person shall not again be employed on the Project.

In no event shall the City be responsible for overtime pay.

26. GRATUITIES

A. This Contract may be terminated if the Mayor, the Mayor's designee, and/or the Procurement Services Manager determine, in their sole discretion, that the Contractor or any officer, employee, agent, or other representative whatsoever, of the Contractor offered or gave a gift or hospitality to a City officer, employee, agent or Contractor for the purpose of influencing any decision to grant a City contract or to obtain favorable treatment under any City contract.

B. The terms "hospitality" and "gift" include, but are not limited to, any payment, subscription, advance, forbearance, acceptance, rendering or deposit of money, services, or anything of value given or offered, including but not limited to food, lodging, transportation, recreation or entertainment, token or award.

C. Contract termination under this provision shall constitute a breach of contract by the Contractor, and the Contractor shall be liable to the City for all costs of reletting the contract or completion of the project. Further, if the Contractor is terminated under this provision, or violates this provision but is not terminated, the Contractor shall be subject to debarment under the City's Procurement Regulations. The rights and remedies of the City provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Contract.

27. NON-DISCRIMINATION

A. In accord with section 24-34-402, C.R.S., Title VII of the Civil Rights Act of 1964, Americans with Disabilities Act of 1990 as amended, all applicable federal and state laws, the Contractor will not discriminate against any employee or applicant for employment because of disability, race, creed, color, sex, sexual orientation, gender identity, gender expression, religion, age, national origin, or ancestry.

B. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

C. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to disability, race, creed, color, sex, sexual orientation, gender identity, gender expression, religion, age, national origin, or ancestry.

28. ORDER OF PRECEDENCE

Any inconsistency in this Contract shall be resolved by giving precedence in the following order:

A. This Contract document with its terms and conditions
B. The Statement of Work
C. Other Appendices, Attachments, Exhibits, or Schedules

29. TECHNOLOGY ACCESSIBILITY

Contractor hereby certifies and guarantees that the products and services, including but not limited to any software-as-a-service or online platform, being purchased by City are compliant with: (i) the accessibility standards established by the chief information officer of the State of Colorado in accord with Section 24-85-103, C.R.S., as may be amended, including WCAG 2.1 "Level A" and "Level AA," or other applicable accessibility standards required by the State of Colorado pertaining to those with disabilities, and (ii) any federally adopted law or regulation pertaining to technology accessibility for those with disabilities, including but not limited to the final rule published by the Department of Justice in the Federal Register on April 24, 2024, updating regulations for Title II of the Americans with Disabilities Act (ADA), "Nondiscrimination on the Basis of Disability; Accessibility of Web Information and Services of State and Local Government Entities," 28 CFR Part 35, [CRT Docket No. 144; AG Order No. 5919-2024], RIN 1190-AA79, as such laws may be amended (together the "Accessibility Laws"). Contractor shall provide the City with a completed Voluntary Product Accessibility Template ("VPAT"), WCAG Edition, attached hereto as Exhibit __ and incorporated herein, that demonstrates compliance with applicable WCAG standards and the Accessibility Laws. Contractor shall immediately, or within the timeframe designated by City, resolve and remediate all accessibility issues discovered in Contractor's products and services. All of Contractor's ongoing maintenance, updates, upgrades, fixes, and other changes to the products or services shall conform to these requirements and comply with the Accessibility Laws. During all periods where Contractor's products and services do not conform to the Accessibility Laws or otherwise have accessibility issues, Contractor shall provide all reasonable accommodations for users of the products and services as directed by the City and at no additional charge.

Failure to comply with the Accessibility Laws and accessibility standards or to provide the necessary documentation may result in the City, in its sole discretion, terminating the Agreement, Statement of Work, Order Form, or other agreement for material breach, without Contractor recourse. In the event of such termination by City, Contractor shall refund all amounts paid to Contractor under the Agreement or other terminated document. Contractor shall indemnify, defend, and hold harmless City and its representatives for any failure, or allegation of failure, of the products or services to conform with the applicable accessibility standards and Accessibility Laws, including but not limited to any civil claim or suit filed by a person with a disability pursuant to Section 24-34-802, C.R.S., as may be amended.

30. HEADINGS

The section headings contained in this Contract are for reference purposes only and shall not affect the meaning or interpretation of this Contract.

31. DISPUTES

A. All administrative and contractual disputes arising from or related to this Contract shall be addressed in the following manner:
   i. If either Party disputes or disagrees with a Contract term or the other Party's interpretation of a Contract term or has any other administrative or contractual dispute not addressed in

the Unanticipated Circumstances provisions, such Party shall promptly give the other Party written notice of said dispute.

ii. The Parties shall hold a meeting as soon as reasonably possible, but in no event later than thirty (30) calendar days from the initial written notice of the dispute, attended by persons with decision-making authority regarding the dispute, to attempt in good faith to negotiate a resolution of the dispute; provided, however, that no such meeting shall be deemed to vitiate or reduce the obligations and liabilities of the Parties or be deemed a waiver by a Party of any remedies to which such Party would otherwise be entitled unless otherwise agreed to by the Parties in writing.

iii. If, within thirty (30) calendar days after such meeting, the Parties have not succeeded in negotiating a resolution of the dispute, they agree to submit the dispute to non-binding mediation and to bear equally the costs of the mediation.

iv. The Parties will jointly appoint a mutually acceptable mediator. If they fail to do so within twenty (20) calendar days from the conclusion of the negotiation period, they shall each select a mediator. The two mediators will then appoint a third mediator who shall conduct mediation for the Parties as the sole mediator.

v. The Parties agree to participate in good faith in the mediation and negotiations for a period of thirty (30) calendar days. The substantive and procedural law of the State of Colorado shall apply to the proceedings. If the Parties are not successful in resolving the dispute through mediation, then the Parties shall be free to pursue any other remedy afforded by the laws of the State of Colorado.

vi. Until final resolution of any dispute hereunder, the Contractor shall diligently proceed with the performance of this Contract as directed by the City. For purposes of this Contract, termination for convenience shall not be deemed a dispute. The City of Colorado Springs and the Contractor agree to notify each other in a timely manner of any claim, dispute, or cause of action arising from or related to this Contract, and to negotiate in good faith to resolve any such claim, dispute, or cause of action. To the extent that such negotiations fail, the City of Colorado Springs and the Contractor agree that any lawsuit or cause of action that arises from or is related to this Contract shall be filed with and litigated only by the Colorado District Court for El Paso County, CO.

32. DELIVERY

The City may cancel this Contract or any portion thereof if delivery is not made when and as specified, time being of the essence in this Contract. Contractor shall pay the City for any loss or damage sustained by the City because of failure to perform in accordance with this Contract.

33. PAYMENTS

All invoices shall be sent to the Project Manager identified in this Contract.

The City will pay the Contractor, upon submission of proper invoices, the prices stipulated in the Contract for services rendered and accepted, less any deductions provided in this Contract within 30 days (Net 30). The City will not pay late fees or interest. Any discount payment terms offered on the invoice may be taken by the City.

Each invoice must contain at least the following information:

Contract number, issued purchase order number, invoice number, invoice date, timeframe covered by invoice, type and amount of labor and materials used for that time period, dollar amount in unit price, extended price, and total value of invoice.

If T&M

The City will make payments for services on a monthly basis for services performed during the previous month in accordance with this Contract. All labor Invoices shall include labor categories, rates, hours worked, and total amounts per category. All labor categories and rates charged must be included in this Contract. No other categories or rates will be allowed or payable. All labor invoices are subject to City approval.

Materials will be payable on a reimbursable basis with no additional profit, fee, overhead, handling, or General and Administrative (G&A) costs. All costs for materials shall be approved by the City Contracts Specialist before the costs are incurred and payable.

The City will pay the Contractor, upon submission of proper invoices, the prices stipulated in the Contract for services rendered and accepted, less any deductions provided in this Contract within 30 days (Net 30). The City will not pay late fees or interest. Any discount payment terms offered on the invoice may be taken by the City.

34. INSPECTION OF SERVICES

The Contractor is responsible for performing or having performed all inspections and tests necessary to substantiate that the services furnished under this Contract conform to Contract requirements, including any applicable technical requirements for specified manufacturers' parts. This clause takes precedence over any City inspection and testing required in the Contract's specifications, except for specialized inspections or tests specified to be performed solely by the City.

A. Definition of "services", as used in this clause, includes services performed, workmanship, and material furnished or utilized in the performance of services.

B. The Contractor shall provide and maintain an inspection system acceptable to the City covering the services under this Contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the City during Contract performance and for as long afterwards as the Contract requires.

C. The City has the right to inspect and test all services called for by the Contract, to the extent practicable at all times and places during the term of the Contract. The City will perform inspections and tests in a manner that will not unduly delay the work.

D. If the City performs inspections or test on the premises of the Contractor or a subcontractor, the Contractor shall furnish, and shall require subcontractors to furnish, at no increase in Contract price, all reasonable facilities and assistance for the safe and convenient performance of these duties.

35. SECURITY

The City maintains security requirements regarding access to City buildings and other City workplaces and worksites on City property. All Contractor personnel accessing City buildings, workplaces, or worksites, may be required to produce a valid, Government issued picture identification. Contractor personnel lacking such identification may not be allowed access to such

sites. No costs incurred by the Contractor due to City security requirements shall be allowable or payable under this Contract.

36. TIME IS OF THE ESSENCE

In as much as the Contract concerns a needed or required service, the terms, conditions, and provisions of the Contract relating to the time of performance and completion of work are of the essence of this Contract. The Contractor shall begin work on the day specified and shall prosecute the work diligently so as to assure completion of the work within the number of calendar days or date specified, or the date to which the time for completion may have been extended.

37. EMPLOYMENT OF LABOR

The Contractor shall comply with, and defend and hold the City harmless from any violation of all laws and lawful rules and regulations, both of the State of Colorado and of the United States, relating to Workmen's Compensation, unemployment compensation, Social Security, payment for overtime, and all other expenses and conditions of employment under this Contract.

38. SALES TAX

The Contractor must have a tax-exemption certificate from the Colorado Department of Revenue for this project. The certificate does not apply to City of Colorado Springs Sales and Use Tax which shall be applicable. The tax-exempt project number and the exemption certificate only applies to County, PPRTA (Pikes Peak Rural Transportation Authority), and State taxes when purchasing construction and building materials **to be incorporated into this project**.

Furthermore, the exemption **does not** include or apply to the purchase or rental of equipment, supplies or materials that **do not become a part of the completed project or structure**. Such purchases and rentals are subject to full applicable taxation.

All contracts with subcontractors must include the City of Colorado Springs Sales and Use Tax on the work covered by the Contract, and other taxes as applicable.

Note: For all equipment, materials and supplies incorporated into the work purchased from vendors or suppliers not licensed to collect City Sales Tax (i.e. out of state suppliers, etc.), City Use Tax is due and payable to the City. The Contractor shall execute and deliver, and shall cause the Contractor's subcontractors to execute and deliver to the City Sales Tax Office, the appropriate ST forms as designated by the City Sales Tax Office. These forms shall list all said equipment, materials and supplies and the corresponding use tax due, along with payment for said taxes. Any outstanding taxes due may be withheld from the final payment due the Contractor and may result in suspension of Contractor from bidding on City projects.

Forms and instructions can be downloaded at https://coloradosprings.gov/sales-tax. Questions can be directed to the City Sales Tax Division at (719) 385-5903 or SalesTax@coloradosprings.gov.
Our Registration Numbers are as follows:
City of Colorado Springs
Federal I.D.: 84-6000573
Federal Excise: A-138557
State Sales Tax: 98-03479

The Contractor's payment or exemption of State of Colorado, El Paso County and City Sales and Use Taxes shall be as specified herein.

39. SEVERABILITY

If any terms, conditions, or provisions of this Contract shall be held unconstitutional, illegal, or void, such finding shall not affect any other terms, conditions, or provisions of this Contract.

40. LIABILITY OF CITY EMPLOYEES

All authorized representatives of the City are acting solely as agents and representatives of the City when carrying out and exercising the power or authority granted to them under the Contract. There shall not be any liability on them either personally or as employees of the City.

41. USE OF CITY NAME OR LOGO

Except as otherwise provided in this Contract, the Contractor shall not refer to this Contract or the City of Colorado Springs in any advertising or promotions in such a manner as to state or imply that the product or service provided is endorsed or preferred by the City of Colorado Springs, its employees, or its Departments, or is considered by these entities to be superior to other products or services. Any use of the name or logo of the City of Colorado Springs in advertising or promotions must be approved in writing by the City of Colorado Springs Contracts Specialist assigned to the Contract prior to such use.

42. TRAVEL

If travel expenses are included as a line item in this Contract, all travel expenses incurred and billable by the Contractor are subject to City approval. Air travel shall be limited to the round trip "economy coach" fare. Travel from the Colorado Springs Airport is encouraged. Unless there are extenuating circumstances, the Contract should take advantage of lower airfares by purchasing tickets more than 14 days in advance of travel. In-state travel by air must be more economical than travel by private vehicle. Use of a private vehicle may be reimbursed per mile at the current rate published by the IRS annually. Short-term parking, long-term parking or cab fare associated with airport departure and arrival may be allowable expenses. Valet parking will not be allowed unless it is the least expensive or only option. Car rental rates may be reimbursed for car rentals no greater than the intermediate or standard classification. The City will not reimburse any other travel methods or expenses. The City will pay for lodging, meals, and miscellaneous expenses on a per diem basis only, in accordance with the current per diem rates published by the IRS annually. The City will not pay for Contractor expenses exceeding the per diem rates. Receipts for all reimbursable expenses must be provided with the Contractor’s invoice.

43. ELECTRONIC SIGNATURES

This Agreement and all other documents contemplated hereunder may be executed using electronic signatures with delivery via facsimile transmission, by scanning and transmission of electronic files in Portable Document Format (PDF) or other readily available file format, or by copy transmitted via email, or by other electronic means and in one or more counterparts, each of which shall be (i) an original, and all of which taken together shall constitute one and the same agreement, (ii) a valid and binding agreement and fully admissible under state and federal rules of evidence and (iii) enforceable in accordance with its terms.

44. APPENDICES

The following Appendices are made a part of this Agreement:

1. Appendix A – Additional Terms and Conditions
2. Appendix B – Contractor's Proposal,
3. Appendix C – Statement of Work.
4. Appendix D – Project Schedule
5. Appendix E – Insurance Requirements

CONTRACT SIGNATURE PAGE

IN WITNESS WHEREOF, the parties have caused these presents to be executed on the day and the year first above written.

This Contract is executed in one (1) original copy.

THE CITY OF COLORADO SPRINGS, COLORADO:

SECOND PARTY: SAMPLE CONTRACT ONLY
Corporate Name
Signature Date
Title

EXHIBIT 3 – SCOPE OF WORK

3.1 SCOPE OF WORK

Construction Management, Inspection, and Materials Testing for the 31st Street and Fontanero Street Roundabout Project (Project').

3.2 PROJECT BUDGET

The construction estimate is $5,000,000.00. The Project construction budget consists of funds from multiple sources including a grant from the CDOT and funding from the PPRTA.

3.3 GENERAL DESCRIPTION AND SCOPE

The general description and scope of this Project is as follows:

A. GENERAL DESCRIPTION

The Project is located at the intersection of 31st Street and Fontanero Street. This intersection is a 4 way stop located over Camp Creek.

B. PROJECT GENERAL SCOPE

The selected Consultant will provide qualified construction management, inspection, and materials testing personnel to ensure the construction contractor's conformance and compliance with the contract documents and other applicable standards and specifications. The design engineer, Wilson & Co., is retained under a separate agreement to answer questions and to review Shop Drawing Submittals. The selected Consultant will collect all Shop Drawing submittals from the Contractor, forward each submittal to Wilson, collect each submittal from Wilson and transmit each submittal back to the Contractor. The selected Consultant will maintain a Project Shop Drawing Submittal Log and electronic copies on site at all time during construction.

The construction phase of the Project is estimated to take 200 Calendar Days from Notice to Proceed. The Project consists of but, is not limited to the following elements;

1. Demo of the existing 3 metal culverts in Camp Creek.
2. Installation of cast-in-places concrete box culvert with entrance and exit channel protection.
3. Installation of a Roundabout over the cast-in-place concrete box culvert
4. Water line relocation
5. Sewer line relocations
6. Drainage pipe and structures
7. Trail (sidewalk) installation
8. Temporary Erosion Control Measures
9. Permanent Erosion Control Measures
10. Traffic Signing and Traffic Striping
11. Streetlights
12. Coordinate relocation of various utilities
13. Asphalt paving

Notable project construction specific items and details

1. Method of Handling Traffic (MHT)
2. Construction Phasing
3. Roundabout details
4. Concrete Curb and Gutter, Concrete Curb Ramps
5. Property Restoration, Landscaping and Irrigation
6. Limited area of disturbance.

C. COORDINATION REQUIREMENTS

Primary coordination for all activities will be through the City's Project Manager. The Consultant shall also coordinate with the City's design consultant (Wilson & Co.) and the selected contractor. Coordination with affected government agencies, City departments, utility companies, and adjoining property owners and businesses will be required by the selected Consultant throughout this project.

D. CDOT DOCUMENTATION EXPERIENCE

The acceptance of Federal aid in the Project requires that the City comply with terms and conditions of an Intergovernmental Agreement with CDOT. The requirements and procedures are detailed in the CDOT Local Agency Manual (Manual) and the numerous manuals that are referenced throughout. The Consultant shall be familiar with the requirements and procedures and with the extensive documentation and organization required by the Manual.

E. PEDESTRIAN ACCESSIBILITY REQUIREMENTS

The Project plans include installation of regional trail, connector trail, sidewalk, and curb ramps. The City has recently revised its specifications and details for pedestrian accessibility improvements. The City requires intensive inspection and documentation for these facilities. The Consultant shall be familiar with the City's specifications, details and inspection processes and shall assist the City in ensuring that these features are appropriately installed by the construction contractor.

F. CONSTRUCTION STORMWATER PERMIT AND CITY MS4 PERMIT REQUIREMENTS

The Project will disturb less than one acre. It is important that the Area of Disturbance remains less than one acre. The construction contractor will be required to obtain a Grading and Erosion Control Permit from the City. In addition, the construction contractor and the City will be required to obtain a Construction Stormwater Permit from the Colorado Department of Health and Environment (CDPHE) jointly. The Consultant shall be familiar with these.

G. ADDITIONAL AREAS OF CONCERN

The project plans require critical work that is either temporary in the project, paid as lump sum or not paid for separately, but included in the basis of payment of other items. The Consultant shall assist the City in ensuring that these features are appropriately implemented by the construction contractor. The following is notable:

1. Safety Critical Work: Shoring, falsework, work near OHE, etc.
2. Water Control: Maintaining base flows and stormflows through the site.
3. Construction dewatering: Utility relocations, caissons, channel linings, etc.
4. Settlement Instrumentation and Monitoring:

5. Aesthetic Features, e.g. precast and/or cast-in-place decorative panels, truck aprons, landscaping, property restoration, etc.

3.4 CONSTRUCTION MANAGEMENT AND INSPECTION

The 31st Street and Fontanero Street Roundabout Project include Federal-Aid funds and shall be administered in accordance with Federal and State regulations. Administration requirements are outlined in the CDOT Local Agency Manual which requires specific and extensive: forms, meetings, inspections, materials testing, documentation, and procedures. The project will be managed and constructed in accordance with the Local Agency Contract, the CDOT Local Agency Manual, the CDOT Road and Bridge Standard Specifications (latest edition), the CDOT Bridge Fabrication Manual the, CDOT Field Materials Manual (latest edition) and CDOT Construction Manual (latest edition).

A Field Office will not be provided for the consultants or city use.

The Consultant should review the project design documents to understand the full extent of the construction on the project and the resulting inspection requirements for the project. The consultant shall require that all personnel working on the project be familiar with the contract documents and applicable City/CDOT standards and procedures. The Consultant shall be required to use the Masterworks Software System for electronic documentation.

3.5 CONSULTANT PROPOSAL REQUIREMENTS

The consultants proposal shall consider the following scope of work:

3.5.1 Provide and coordinate all construction management services required to fulfill the project needs.

A. Coordinate communications between the Contractor, City, CDOT, and all other stakeholders associated with the project.

B. Maintain a record of all written communications among the Contractor, City, and consultant in electronic form on the City's Masterworks software system.

C. Perform all field coordination between the Contractor, the City's Project Manager, and all affected Utility Departments, agencies and property owners.

D. Conduct conferences: pre-construction, concrete pre-pours, and/or others that may apply such as construction phasing transitions, night work, etc.

1. Organize meeting space and invitations; coordinate submittal of forms, letters, schedules, mix designs, drawings, etc. for review prior to the meeting; prepare conference agendas, and facilitate the meeting.
2. Complete agendas and prepare and distribute meeting minutes.

E. Conduct weekly progress meetings and review updated two-week schedule submitted by the Contractor.

F. Supervise construction

1. Provide competent, experienced staff.

2. Inspect and document the Contractor's work. Perform routine inspections and observations of daily and critical path construction activities to include photo documentation.
3. Maintain diaries.
4. Maintain time counts.
5. Review Contractors Project Safety Management Plan and assure company policy compliances.
6. Assist the City Stormwater Inspector in ensuring compliance with the CDPHE Stormwater Construction Permit. Owner documentation will be completed by the City Stormwater Inspector, not Consultant inspection personnel. However, the consultant will assist in bringing any issues to their attention by performing more frequent observations of the construction BMPs.
7. Maintain As-Built set on plans during construction.

G. Assist City in reviewing and approving submittals, shop drawings and mix designs utilizing the City's Masterworks software system.

H. Review monthly Critical Path Schedule and Method Statements.

I. Assist City in reviewing and responding to all Requests for Information (RFIs) utilizing the City's Masterworks software system

J. Coordinate review and approval of MHTs by City staff and Traffic Engineering Division. Perform routine traffic control inspections ensuring compliance with the approved MHTs

K. Prepare interim and final Contractor pay estimates for approval by City staff. Perform field measurements and verification of contractor pay application quantities.

L. Prepare change orders for authorization. Maintain a change order log.

M. Monitor and maintain the project's financial budget.

N. Prepare and submit monthly progress reports

O. Assist City PM in resolving Contractor claims and disputes

3.5.2 Provide and coordinate all construction civil rights and labor compliance services required to fulfill the project needs.

A. Fulfill project bulletin board and preconstruction packet requirements.

B. Process CDOT Form 205 – Sublet Permit Applications
C. Conduct EEO and labor compliance verification employee interviews

D. Conduct interview with on-the-job (OJT) trainees.

E. Check certified payroll.

F. Coordinate submittal FHWA Form 1391 – FHWA Construction Contractor's Annual EEO Report.

3.5.3 Provide and coordinate all final construction documentation services required to fulfill the project needs.

A. Conduct final project inspection.

B. Write final project acceptance letter.

C. Prepare and distribute an electronic final As-Built plans set.

D. Prepare EEO certification and collect EEO forms.

E. Check final quantities, plan, and pay estimate; check project documentation; and submit final certifications.

3.6 MATERIAL TESTING DURING CONSTRUCTION

The 31st Street and Fontanero Street Roundabout Project include Federal-Aid funds and shall be administered in accordance with Federal and State regulations. Administration requirements are outlined in the CDOT Local Agency Manual which requires specific and extensive: forms, meetings, inspections, materials testing, documentation, and procedures. The project will be managed and constructed in accordance with the Local Agency Contract, the CDOT Local Agency Manual, the CDOT Road and Bridge Standard Specifications (latest edition), the CDOT Bridge Fabrication Manual the, CDOT Field Materials Manual (latest edition) and CDOT Construction Manual (latest edition).

The Consultant should review the project design documents to understand the full extent of the construction on the project and the resulting materials testing requirements for the project. The consultant shall require that all personnel working on the project be familiar with the contract documents and applicable City/CDOT standards and procedures. The Consultant shall be required to use the Masterworks Software System for electronic documentation of all material testing reports.

The Consultant shall provide qualified engineers/geologists and certified engineering technicians to sample, test, and document all materials generated and produced on the project. The Consultant shall provide all Quality Assurance testing for all materials that require testing for incorporation into the Project. The minimum number of samples and tests has not been determined at this time but may be estimated from the plan quantities using the CDOT Frequency Guide Schedule for Minimum Materials Sampling, Testing, and Inspection. The City may require additional testing or other services for adequate Quality Assurance if deemed necessary.

A. Provide and coordinate all materials testing services required to fulfill the project needs.
    1. Perform project acceptance samples and tests
    2. Perform laboratory verification tests
    3. Accept manufactured products
    4. Approve of source materials
    5. Incorporate Independent Assurance Testing (as required)
    6. Approve the mix designs
    7. Check final materials documentation
    8. Complete and distribute documents of final materials.

EXHIBIT 4 – CONSTRUCTION PLAN SET

FOLLOWS THIS PAGE

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS
BEFORE YOU DIG
CALL 811
(or 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
www.uncc.org

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

CONTRACTOR _____

ENGINEER _____
(Project or Resident)

PROJECT STARTED _____

PROJECT COMPLETED _____

AS CONSTRUCTED PLANS
REVIEWED _____

_____ TITLE _____ DATE

COLORADO SPRINGS

OLYMPIC CITY **USA**

CITY OF COLORADO SPRINGS
EL PASO COUNTY, STATE OF COLORADO

31ST STREET / FONTANERO STREET
PROJECT NO. STU-M240-203
STRUCTURE NO. CSG-E.00-10.57A
BID NO. _____
CONSTRUCTION BID PLANS
NOVEMBER 2025

REVIEWED BY:

BY: Gayle Sturdivant Digitally signed by Gayle Sturdivant Date: 2026.05.04 09:16:10 -06'00' DATE: _____
CITY ENGINEER

BY: Todd Frisbie Digitally signed by Todd Frisbie DN: CN=Todd Frisbie, O=City of Colorado Springs, OU=Public Works, OU=Traffic Engineering, CN=Todd Frisbie Date: 2026.04.23 09:13:50 -06'00' DATE: 04/23/26
CITY TRAFFIC ENGINEER

BY: Corey Farkas DATE: _____
CITY OPERATIONS & MAINTENANCE DIVISION MANAGER

BY: Steve Smith Digitally signed by Steve Smith DATE: _____
COLORADO SPRINGS FIRE DEPARTMENT

BY: Signed by: 4/10/26 DATE: _____
CITY PARKS & RECREATION DEPARTMENT

BY: Jacob Matsen DATE: 4/28/2026
MOUNTAIN METROPOLITAN TRANSIT

COLORADO SPRINGS UTILITIES

BY: tendres Digitally signed by tendres DN: E=tendres@csu.org, CN=tendres, OU=USER, OU=Person, DC=csu, DC=org Date: 2026.02.18 15:13:31 -07'00' DATE: _____
WATER/WASTE WATER

BY: tiwilliams Digitally signed by tiwilliams DN: E=tiwilliams@csu.org, CN=tiwilliams, OU=USER, OU=Person, DC=csu, DC=org Date: 2026.02.23 11:02:17 -07'00' DATE: _____
COLORADO SPRINGS GAS

BY: _____ DATE: 02/27/2026
ELECTRIC-DISTRIBUTION

BY: Dan Gallagher DATE: 3/3/26
FIBER OPTIC

OTHER UTILITIES

BY: N/A DATE: _____
CENTURYLINK (PHONE)

BY: John Etter DATE: 2/17/2026
COMCAST (CATV)

BY: N/A DATE: _____
LUMEN (LOCAL)

BY: N/A DATE: _____
MIC (FIBER OPTIC)

BY: N/A DATE: _____
UNDERLINE (FIBER OPTIC)

BY: N/A DATE: _____
ZAYO (FIBER OPTIC)

COLORADO LICENSED
DAVID J. PILLING
25781
1-22-26
PROFESSIONAL ENGINEER

WILSON & COMPANY
The scope of my authority, with respect to these plans, is limited to the following disciplines(s) and or page numbers as appropriate:
General Sheets: 1-24
Removal Sheets: 39-41
Roadway Sheets: 42-57, 71
Grading Sheets: 58-70
Utility Impact Sheet: 105

COLORADO LICENSED
ROBERT E BORDEN
20932
1-16-26
PROFESSIONAL ENGINEER

WILSON & COMPANY
The scope of my authority, with respect to these plans, is limited to the following disciplines(s) and or page numbers as appropriate:
Structures
Sheets: 25-38

COLORADO LICENSED
ERIC LUNDBERG
42733
1-16-26
PROFESSIONAL ENGINEER

WILSON & COMPANY
The scope of my authority, with respect to these plans, is limited to the following disciplines(s) and or page numbers as appropriate:
Signing/Striping/Traffic Control
Sheets: 78-90

COLORADO LICENSED
MARC T. HESS
59522
1-16-26
PROFESSIONAL ENGINEER

WILSON & COMPANY
The scope of my authority, with respect to these plans, is limited to the following disciplines(s) and or page numbers as appropriate:
Lighting/Electrical
Sheets: 91-96

Print Date: 1/22/2026	Sheet Revisions	WILSON & COMPANY	No Revisions:
File Name: 23916GN_01-01_CoverSht.dgn	Date: Comments: Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	Revised:
Horiz. Scale: 1:1 Vert. Scale:			Void:
Unit Information Unit Leader			

31ST ST & FONTANERO ST
COVER SHEET

Designer:	ETP	Structure Numbers	
Detailer:	BKM		
Sheet Subset:	GN	Subset Sheets: 1 of 1	

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number 1

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FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
CALL 811
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UTILITY NOTIFICATION CENTER OF COLORADO (UNCC)
www.uncc.org

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

CITY OF COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO

31ST STREET / FONTANERO STREET

PROJECT NO. STU-M240-203

BID NO. _____

100% PLANS

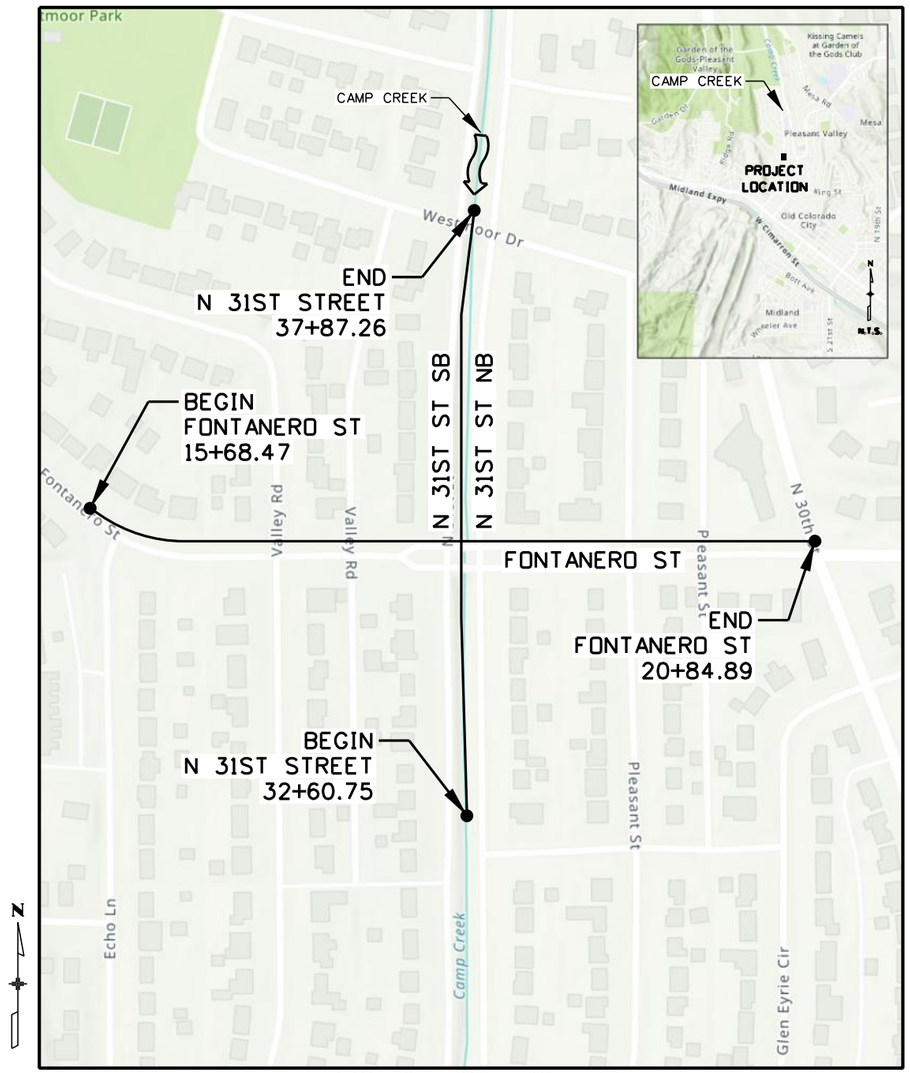
NOVEMBER 2025

TABULATION OF LENGTH & DESIGN DATA

STATION	FEET ROADWAY
31ST STREET SOUTH OF THE CULVERT	
BEGIN = STA. 32+60.75 END = STA. 34+63.36	202.61
BRIDGE OVER 31ST AND FONTANERO STREET	
BEGIN = STA. 34+63.36 END = STA. 36+51.17	187.81
31ST STREET NORTH OF THE CULVERT	
BEGIN = STA. 36+51.17 END = STA. 37+87.26	136.09
FONTANERO STREET	
BEGIN = STA. 15+68.47 END = STA. 20+84.89	516.42

SUMMARY OF PROJECT LENGTH	FEET	MILES
ROADWAY (NET LENGTH)	1042.93	0.20

DESIGN DATA	31ST ST/FONTANERO ST
MINIMUM S.S.D. HORIZONTAL	MATCH EXISTING
MINIMUM S.S.D. VERTICAL	MATCH EXISTING
MAXIMUM DESIGN SPEED	25 MPH



PROJECT LOCATION MAP

0' 200' 400' 800'

SHEET NO.	INDEX OF SHEETS
1	COVER SHEET
2	TITLE SHEET
3-5	GENERAL NOTES
6-8	SUMMARY OF APPROXIMATE QUANTITIES
9-10	TABULATION OF ROADWAY
11-18	GEOMETRIC LAYOUT
19-24	TYPICAL SECTIONS
25-38	STRUCTURE PLANS AND DETAILS
39-41	ROADWAY REMOVALS
42-45	ROADWAY PLAN
46-48	SIDEWALK & DRIVE PLAN
49-57	CURB RAMP DETAILS
58-70	GRADING PLANS AND POINT TABLES
71-77	STANDARD DETAILS
78-79	SIGNING & STRIPING TABULATIONS
80-85	SIGNING & STRIPING PLANS
86	SIGN LAYOUTS
87	TRAFFIC CONTROL TABULATIONS
88-90	TRAFFIC CONTROL PLANS
91	LIGHTING NOTES & LEGEND
92-94	LIGHTING TABULATIONS & SCHEDULES
95	LINE DIAGRAM
96	LIGHTING PLAN
97-104	LANDSCAPING
105	UTILITY IMPACT
1-10	PROPOSED WATERLINE PLANS
1-6	PROPOSED SANITARY SEWER PLANS
1-2	SURVEY CONTROL DIAGRAM
1-43	EROSION CONTROL PLAN & LANDSCAPING
1-27	DRAINAGE PLAN
1-3	SUE
1-6	CROSS SECTIONS

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Print Date: 1/16/2026
File Name: 23916GN_01-02_TitleSht.dgn
Horiz. Scale: 1:1 Vert. Scale:
Unit Information Unit Leader
ALL SEALS FOR THIS SET OF DRAWINGS ARE APPLIED TO THE COVER PAGE.

Sheet Revisions

Date:	Comments	Init.

COLORADO SPRINGS
OLYMPIC CITY USA

WILSON & COMPANY
5755 Mark Dabling Blvd.
Suite 100
Colorado Springs, CO 80919
Phone: 719-520-5800
FAX: 719-520-0108

No Revisions:
Revised:
Void:

31ST ST & FONTANERO ST
TITLE SHEET

Designer: JDM
Detailer: BKM
Sheet Subset: GN
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 1

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

Know what's below. Call before you dig.

GENERAL NOTES:

1. THE PROJECT WILL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF COLORADO SPRINGS GENERAL PROVISIONS AND STANDARD SPECIFICATIONS AND THE COLORADO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2025), EXCEPT WHERE OTHERWISE NOTED ON THE PROJECT PLANS AND THE PROJECT SPECIAL PROVISIONS.

2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER OR APPLICABLE ENTITY.

3. THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS ON SITE FOR THE DURATION OF THIS PROJECT.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL LOCAL ORDINANCES.

5. CITY OF COLORADO SPRINGS MAINTENANCE SHALL BE ALLOWED ACCESS THROUGHOUT THE PROJECT AT ALL TIMES. ACCESS THROUGH A PARTICULAR SECTION UNDER CONSTRUCTION SHALL BE COORDINATED WITH THE ENGINEER.

6. THE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

7. ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.

8. ALL STATIONS ARE ALONG THE PROJECT CONTROL LINES, UNLESS OTHERWISE NOTED.

9. STATIONS AND OFFSETS SHOWN ARE TO THE ROADWAY ALIGNMENT AND ELEVATIONS SHOWN ARE TO THE FINISHED GRADE OF PAVEMENT, UNLESS OTHERWISE NOTED.

10. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES, IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES, SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.

11. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN THE CLEAR ZONE. STOCKPILES WITHIN THE CLEAR ZONE SHALL BE PROTECTED BY BARRIER WITH CRASH CUSHIONS AS NECESSARY.

12. THE CONSTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE ENGINEER. STOCKPILING AND STAGING AREA LOCATIONS SHALL BE SUBMITTED AT LEAST 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. WORK SHALL NOT BEGIN UNTIL THE LOCATIONS ARE ACCEPTED IN WRITING BY THE ENGINEER.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SITE-SPECIFIC STAGING PLAN FOR ACCESS TO THE WORK AREAS AND FIELD FACILITIES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION. EARTHWORK, DRAINAGE, AND OTHER ITEMS RELATED TO THE ACCESS SHALL BE SUBSIDIARY TO THE WORK INCLUDING EROSION CONTROL MEASURE FOR RESTORATION OF THE SITE TO ORIGINAL CONDITIONS.

14. PROJECT SUPERINTENDENT SHALL BE AVAILABLE ON A 24 HOURS/7 DAYS PERIOD AND CREW WILL RESPOND WITHIN 4 HOURS OF CONTACT.

15. THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN OR AS DIRECTED BY THE ENGINEER. ANY REWORK OF MATERIAL DUE TO LACK OF THIS MAINTENANCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. MAINTAINING DRAINAGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

16. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.

17. THE CONTRACTOR SHALL SUBMIT A PAVING SEQUENCE SCHEDULE TO THE ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO THE PRE-PAVING CONFERENCE. PAVING SHALL NOT BEGIN UNTIL THE SCHEDULE HAS BEEN ACCEPTED IN WRITING BY THE ENGINEER.

18. THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS LAYER. THIS EQUIPMENT SHALL BE USED ON ALL PASSES AND LIFTS OF BITUMINOUS PAVEMENT PLACED.
    a. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH
    b. SHORT SKI OR SHORT SHOE
    c. AT LEAST 1500 FEET OF CONTROL LINE AND STAKES

19. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.

20. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE EXISTING PAVEMENT SURFACE BY MEANS OF A POWER BROOM VACUUM SYSTEM (PICK-UP BROOM) OR OTHER APPROVED METHOD. CLEANING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.

21. A TACK COAT OF EMULSIFIED ASPHALT (SLOW-SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE THE BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.

22. FOR PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
    EMULSIFIED ASPHALT (SLOW-SETTING).....@ 0.1 GALS./SQ. YD. (DILUTED)
    AGGREGATE BASE COURSE (CLASS 6).....@ 133 LBS./CU. FT.
    HOT MIX ASPHALT.....@145 LBS/CU.FT.
    CEMENT .....@ 4% (BY WEIGHT) OF SOIL WITH A SOIL UNIT WEIGHT OF 120 LBS./CU. FT.
    PAVEMENT MARKING PAINT (HIGH BUILD) .....@ 68 SQ. FT./GAL

23. ALL QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY TO COMPLETE THE CONSTRUCTION SHOWN IN THESE PLANS.

24. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN.

25. REMOVAL OF ASPHALT MAT SHALL BE SAWCUT TO A CLEAN, VERTICAL EDGE WHERE SHOWN, USING A CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER.

26. THE CONTRACTOR MAY USE AN EXPOSED LONGITUDINAL JOINT FOR A MAXIMUM OF ONE DAY. THE JOINT SHALL CONSIST OF A VERTICAL FACE 1 INCH DEEP AND AT THE BOTTOM OF THE VERTICAL FACE, A 3:1 SLOPE TO THE EXISTING PAVEMENT (OR SUBGRADE). THE MAXIMUM DEPTH OF THE 3:1 SHALL BE 2 INCHES. AT THE END OF ONE DAY, LONGITUDINAL JOINTS SHALL BE ON LANE LINES AND OUT OF WHEEL PATHS.

27. STRUCTURAL CONCRETE SHALL BE CONCRETE CLASS D.

28. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL AFFECTED PROPERTY OWNERS AT ALL TIMES DURING CONSTRUCTION.

29. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE. ANY UTILITY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE PROJECT.

30. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.

31. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
    a. BASES OF CUTS AND FILLS ~ 6 INCH DEPTH.
    b. FULL DEPTH OF EMBANKMENTS FOR ROADWAYS.

32. TYPE OF COMPACTION FOR THIS PROJECT WILL BE AASHTO T-99.

33. UNLESS OTHERWISE SPECIFIED, MATERIALS TO BE REMOVED OR OBLITERATED WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A DISPOSAL SITE AND REQUIRED PERMITS FOR THE UNUSABLE MATERIALS.

34. REFER TO ADDITIONAL NOTES ON THE DRAINAGE PLANS, STORMWATER MANAGEMENT PLANS, SIGNING & PAVEMENT MARKING PLANS, STRUCTURE PLANS, LIGHTING PLANS, AND TRAFFIC CONTROL/PHASING PLANS.

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35. SIDEWALKS WIDER THAN 6 FEET SHALL HAVE A MINIMUM CONCRETE THICKNESS OF 6''. ADDITIONAL CONCRETE FOR WIDER AREAS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

36. IT IS INTENDED THAT PROPOSED SIDEWALK, CURB AND GUTTER, AND ASPHALT PAVING SHALL TIE TO EXISTING INFRASTRUCTURE WHERE PROPOSED WORK TERMINATES. TIE IN WORK SHALL ENSURE POSITIVE DRAINAGE.

37. ALL SIDEWALK, CURB AND GUTTER, AND ANY OTHER CONCRETE REMOVAL SHALL BE SAWCUT TO THE NEAREST EXISTING JOINT.

38. THE CONTRACTOR IS REQUIRED TO SUBMIT FOR PERMITS THROUGH THE CITY OF COLORADO SPRINGS ON-LINE PERMITTING SYSTEM.
39. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A CDSP PERMIT.

SURVEY NOTES:

40. RIGHT-OF-WAY ACQUISITION BY THE CONTRACTOR WILL NOT BE NEEDED FOR THIS PROJECT. ALL WORK SHALL BE COMPLETED ENTIRELY WITHIN THE EXISTING RIGHT-OF-WAY.

41. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EASEMENTS AND RIGHT-OF-WAYS PRIOR TO CONSTRUCTION.

42. ALL RANGE POINTS, TIES, BENCHMARKS, OR OTHER SURVEY CONTROL POINTS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION MUST BE PRESERVED.

43. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS DESIGNATED TO REMAIN FROM ANY DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE RESET AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR AND ENGINEER SHALL NOTE THOSE MONUMENTS DESIGNATED TO REMAIN IN THE FIELD PRIOR TO CONSTRUCTION.

TRAFFIC CONTROL NOTES:

44. TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION THE CITY OF COLORADO SPRINGS TRAFFIC MANUAL, AND CDOT M&S STANDARDS, LATEST EDITION.

45. THE CONTRACTOR SHALL MAINTAIN FULL COMPLIANCE PAVEMENT MARKINGS ON THE ROADWAYS OPEN TO TRAFFIC DURING ALL PHASES OF THE CONSTRUCTION PERIOD.

46. CONSTRUCTION ACTIVITY SHALL BE SCHEDULED WITH MINIMUM IMPACT TO PEDESTRIAN, BICYCLE, AND VEHICULAR TRAFFIC. ALLOWABLE WORK HOURS SHALL BE AS SPECIFIED IN THE PROJECT SPECIAL PROVISIONS.

47. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION IN CONFORMANCE WITH THE TEMPORARY CONSTRUCTION PHASING PLANS.

48. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, WRITTEN METHOD STATEMENTS FOR ALL PAVEMENT MARKING WORK PERFORMED. NO WORK SHALL BE PERFORMED WITHOUT PRIOR APPROVAL FROM THE PROJECT ENGINEER.

49. ENTRANCE/EXIT/AUXILIARY/TURN RAMP & LANE MARKINGS SHALL NOT BE CONSIDERED CORRECT IN THEIR EXISTING CONDITION. THE CONTRACTOR SHALL EVALUATE EACH LOCATION, AND IF NECESSARY, REMOVE AND REPLACE OBSOLETE OR INCORRECT MARKINGS TO COMPLIANCE WITH THE PROJECT SPECIFICATIONS. THE EVALUATION PROCESS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

50. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, REMOVAL AND MAINTENANCE OF ALL NEW, EXISTING, AND TEMPORARY TRAFFIC CONTROL DEVICES LOCATED WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT, PER THE PROJECT PLANS AND AS DIRECTED BY THE ENGINEER. THE DURATION OF THE PROJECT BEGINS FROM THE ISSUANCE OF THE NOTICE TO PROCEED UNTIL FINAL ACCEPTANCE OF THE PROJECT.

51. TEMPORARY OR PERMANENT STRIPING THAT DOES NOT MEET THE CONTRACT REQUIREMENTS OR PLACED WITH OVER SPRAY SHALL BE REMOVED AND REPLACED BY SANDBLASTING OR WATER BLASTING AT NO COST TO THE PROJECT. PAYMENT WILL NOT BE MADE FOR INFERIOR OR OVER SPRAYED STRIPING. PAVEMENT MARKING PLACEMENT WILL BE STOPPED UNTIL CONFLICTING LINES AND OVER SPRAY ARE CORRECTED.

52. ALL STRIPING (TEMPORARY AND PERMANENT) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REMOVAL OF TEMPORARY PAVEMENT MARKING WILL BE MEASURED AND PAID FOR AS REMOVAL OF PAVEMENT MARKING.

53. A METHOD OF HANDLING TRAFFIC (MHT) WILL BE REQUIRED FOR ALL CONSTRUCTION WORK WITHIN THE RIGHT OF-WAY. THE CONTRACTOR SHALL IMPLEMENT A SEPARATE MHT FOR EACH CONSTRUCTION PHASE. CONSTRUCTION WORK SHALL NOT BEGIN UNTIL THE MHT HAS BEEN ACCEPTED BY CITY TRAFFIC.

SIGNING NOTES:

54. GROUND MOUNTED SIGNS SHALL BE INSTALLED PER THE CITY OF COLORADO SPRINGS STANDARDS.

55. THE CONTRACTOR SHALL INVENTORY ALL EXISTING SIGNS PRIOR TO CONSTRUCTION ACTIVITIES AND PROVIDE LIST TO THE ENGINEER.

56. SIGN LOCATIONS ARE TO BE APPROVED BY THE ENGINEER BEFORE BEING PLACED.

57. THE CONTRACTOR SHALL REPAIR OR REPLACE AT THEIR EXPENSE ANY EXISTING SIGN THAT IS DAMAGED DURING CONSTRUCTION ACTIVITIES NOT SCHEDULED TO BE REMOVED.

58. ALL REMOVED SIGNS SHALL BECOME THE PROPERTY OF THE CITY OF COLORADO SPRINGS.

UTILITY NOTES:

59. UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE AND SHALL BE RESPONSIBLE FOR ANY DAMAGES THERETO. THERE MAY BE OTHER STRUCTURES, PIPELINES, UTILITIES, ETC., NOT SHOWN ON THE DRAWINGS.

60. THE WORK LISTED BELOW SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND IS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL KEEP THE UTILITY COMPANY(S) ADVISED OF ANY WORK BEING DONE TO THEIR FACILITY SO THAT THE UTILITY COMPANY(S) CAN COORDINATE THEIR INSPECTIONS FOR FINAL ACCEPTANCE OF THE WORK WITH THE ENGINEER:
    a. MINOR ADJUSTMENTS OF MANHOLES AND HANDHOLES.
    b. RELOCATION AND INSTALLATION OF WATERLINES, SANITARY LINES, GAS LINES AND POWER POLE.
    c. REROUTE UNDERGROUND UTILITIES.
    d. REMOVAL OF LIGHT POLE.

61. COOPERATION AMONG CONTRACTORS WILL BE REQUIRED. THE CONSTRACTOR SHALL GIVE UTILITY COMPANIES AT LEAST THREE WEEKS ADVANCE NOTICE BEFORE CONSTRUCTION COMMENCES.

62. THE FOLLOWING IS A LIST OF KNOWN UTILITIES AND CONTACTS WITHIN THE PROJECT:

COLORADO SPRINGS UTILITIES (WATER): TYLER J. ENDRES	O (719) 668-2494 | M (719) 2734
COLORADO SPRINGS UTILITIES (GAS) LOW PRESSURE: AARON CASSIO	(719) 668-5573
COLORADO SPRINGS UTILITIES (GAS) HIGH PRESSURE: AARON CASSIO	(719) 668-5573
COLORADO SPRINGS UTILITIES (ELECTRIC): KYLE LEIBHART	(719) 313-1504
COMCAST: LEO COATS	(719)-675-4657
LUMEN (CENTURY LINK/LEVEL 3/QUEST): ROBERT MCLEOD	(303)-949-2187
MCI/VERIZON: JARED WILLIAMS	(719)-821-5430
ZAYO: JAMES BLACK	(719)-216-8508

ENVIRONMENTAL NOTES:

63. IN ORDER TO AVOID VIOLATING THE MIGRATORY BIRD TREATY ACT OF 1918, IF ANY TREES OR SHRUBS ARE TO BE REMOVED OR WORK ON/UNDER BRIDGES IS TO BE COMPLETED BETWEEN APRIL 1 AND AUGUST 31, A SURVEY MUST BE COMPLETED FOR ACTIVE NESTS. IF AN ACTIVE NEST(S) IS FOUND NO WORK MAY BE DONE WITHIN 50 FEET OF THE NEST(S) UNTIL THE NEST(S) BECOMES INACTIVE. TO AVOID THE SURVEY REQUIREMENT, IT IS RECOMMENDED THAT ALL VEGETATION THAT NEEDS TO BE REMOVED, BE REMOVED AFTER AUGUST 31 AND BEFORE APRIL 1. SEE CDOT SPEC 240 FOR DETAILS.

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64. WORK ACTIVITIES INCLUDING THE MOVEMENT AND PLACEMENT OF VEHICLES AND EQUIPMENT SHALL NOT DISTURB WETLANDS, THREATENED AND ENDANGERED SPECIES (OR THEIR HABITAT), OR BLACK-TAILED PRAIRIE DOG COLONIES. IF ANY SUCH SITES ARE ENCOUNTERED, CDOT REGION 2 ENVIRONMENTAL SHALL BE NOTIFIED SO THAT ALL APPLICABLE CLEARANCES AND PERMITS MAY BE OBTAINED. PLEASE CONTACT GABRIEL COSYLEON, REGION 2 ENVIRONMENTAL UNIT MANAGER AT 719-227-3244.

65. WETLAND AREAS HAVE NOT BEEN IDENTIFIED WITHIN THE PROJECT LIMITS AND NO IMPACTS TO WETLAND AREAS ARE INTICIPATED.

66. RESTORATION OF THE PROJECT AREA WILL INCLUDE REMOVAL OF ALL DEBRIS, LITTER, EXCAVATION SPOILS, AND WASTE MATERIALS GENERATED BY CONSTRUCTION.

67. TEMPORARY STAGING AREAS FOR CONSTRUCTION EQUIPMENT AND MATERIALS WILL UTILIZE PREVIOUSLY DISTURBED AREAS SUCH AS AGRICULTURAL FIELDS, ROADS, GRAVELED PARKING AREAS, AND SHOULDER PULL OUTS. MAJOR REPAIRS TO CONSTRUCTION EQUIPMENT WILL BE PERFORMED OFFSITE, WHERE PRACTICAL. EQUIPMENT OPERATION OFF THE HIGHWAY PRISM SHALL BE MINIMIZED TO THE EXTENT POSSIBLE TO PREVENT POSSIBLE IMPACTS TO BIOLOGICAL RESOURCES.

68. THE CONTRACTOR SHALL REMOVE ON A DAILY BASIS ALL SEDIMENT AND CONSTRUCTION DEBRIS FROM THE FLOW LINES TO AVOID POLLUTANTS FROM DISCHARGING INTO WATERWAYS. THE COST OF REMOVAL SHALL BE INCLUDED IN THE WORK.

69. BMPS SHALL BE IMPLEMENTED TO CONTROL SEDIMENTATION AND WIND OR WATER EROSION AND DEPOSITION. THESE MEASURES INCLUDE: CONTROLLING SURFACE WATER RUNOFF IN RELATION TO SLOPES AND OTHER GRADED AREAS, PLACING BMPS ALONG THE TOES OF GRADED SLOPES, RE-VEGETATING AREAS AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING AND USING BIODEGRADABLE EROSION CONTROL BLANKETING WHERE NEEDED, PLACING SILT CURTAINS AROUND CONSTRUCTION AREAS TO REDUCE EROSION OF DISTURBED SOILS AND SILTATION OF NATURAL DRAINAGE CHANNELS, AND APPLYING WATER TO GRADED AREAS AND TEMPORARY (HAUL) ROADS DURING CONSTRUCTION TO CONTROL FUGITIVE DUST. FILL SLOPES SHALL BE VERTICAL TRACKED TO MINIMIZE EROSION AS SOON AS POSSIBLE FOLLOWING FINAL GRADE.

70. WHERE EXCAVATION IS REQUIRED, ONLY THE MINIMAL AMOUNT OF AREA SHALL BE CLEARED OR GRADED IN ORDER TO MAINTAIN VEGETATIVE GROUND COVER FOR EROSION PROTECTION.

71. NATIVE VEGETATION COVER SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE.

72. FUELING AND ROUTINE MAINTENANCE OF CONSTRUCTION EQUIPMENT SHALL ONLY OCCUR AT DESIGNATED AREAS, AT LEAST 75 FEET FROM WETLAND AND AQUATIC HABITATS AND AWAY FROM DRAINAGE OR DITCHES TO PRECLUDE ADVERSE WATER QUALITY IMPACTS TO EXISTING DRAINAGES AND WETLAND HABITATS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT ADVERSE IMPACTS TO WATER QUALITY. MAJOR REPAIRS TO EQUIPMENT WILL BE MADE OFFSITE.

73. CONSTRUCTION EQUIPMENT SHALL BE CHECKED FREQUENTLY FOR LEAKS. ANY LEAKS OR SPILLS WILL BE CLEANED UP IMMEDIATELY TO PREVENT THE CONTAMINATION OF SOLID OR RESIDUE ON PAVED SURFACES. SPILL AREAS WILL NOT BE "HOSED DOWN", DRY CLEANUP METHODS WILL BE USED.

74. WOOD WASTES SUCH AS SAWDUST OR CHIPS WILL NOT BE BURIED ONSITE.

75. EXPOSED AGGREGATE WASH-WATER WILL BE INTERCEPTED AND PREVENTED FROM REACHING AMBIENT WATERS AND STORMWATER DRAINS USING BMPS AND/OR TEMPORARY SUMPS ALLOWING IT TO PERCOLATE INTO PERMEABLE SOILS.

76. CONSTRUCTION WILL BE PHASED SO THAT THE ACREAGE OF EXPOSED SOILS AT ANY GIVEN TIME IS MINIMIZED UNTIL TEMPORARY INTERIM BMPS CAN BE IMPLEMENTED (VEHICLE TRACKING, SURFACE ROUGHENING, MULCHING).

77. SOILS WILL BE STABILIZED THROUGH IMMEDIATE PLANTINGS OF SEED, FOLLOWED BY MULCH AND TACKIFIER ONCE AN AREA HAS BEEN FINISH GRADED.

78. PUMPING AND DISCHARGE OF WATER FROM DEWATERING OPERATIONS SHALL REQUIRE A DISCHARGE PERMIT FROM THE CDPHE WATER QUALITY CONTROL DIVISION. DISCHARGE PERMITS OR ALTERNATE ARRANGEMENTS FOR WATER MANAGEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (SEE CDOT STANDARD SPECIFICATION 107.25(B) 6). APPLICABLE CONDITIONS FOR THE DISCHARGE INCLUDING MONITORING AND REPORTING SHALL BE INCLUDED IN THE COST OF THE WORK AND SHALL NOT BE COMPENSATED SEPARATELY.

79. GIVEN THE PROJECT'S SCOPE OF WORK, THE PROXIMITY OF ASBESTOS ABATEMENT PROJECTS, AND THE AGE OF THE NEIGHBORHOOD, IT IS POSSIBLE THAT ASBESTOS-CONTAINING MATERIALS (ACM) COULD BE ENCOUNTERED IN BURIED UTILITIES. SHOULD ACM BE ENCOUNTERED, WORKERS MUST FOLLOW CDOT SPECIFICATION 250.07 – ASBESTOS CONTAINING MATERIAL MANAGEMENT AND CDOT ASBESTOS CONTAMINATED SOIL STANDARD OPERATING PROCEDURE. ADDITIONALLY, DEPENDING ON THE TYPE OF ACM, THIS MATERIAL MUST ALSO BE ABATED IN ACCORDANCE WITH EITHER SECTION 5.5 OF THE SOLID WASTE REGULATIONS, OR REGULATION NO. 8 OF THE AIR QUALITY CONTROL COMMISSION REGULATIONS.

80. THIS PROJECT WILL UTILIZE THE CLEAN WATER ACT SECTIION 404, NATIONWIDE PERMIT #14 SHALL BE USED FOR PLANNED WORK AFFECTING CAMP CREEK AND SURROUNDING AQUATIC RESOURCES. THE CONTRACTOR SHALL ENSURE THAT A COPY OF THE PERMIT AND AQUATIC RESOURCES REPORT IS AVAILABLE THROUGHOUT THE DURATION OF CONSTRUCTION.

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BID ITEM NUMBER	AGENCY SPEC	ITEM CODE	ITEM DESCRIPTION	UNITS	SCHEDULE A		SCHEDULE B (WATER)		SCHEDULE C (SANITARY)		PROJECT TOTALS	
					PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST
			CONSTRUCTION ITEMS									
1	CDOT	100-00000	MOBILIZATION	LS	1						1	
2	COS	100-10000	CLEARING AND GRUBBING	LS	1						1	
3	COS	100-30000	EROSION CONTROL	LS	1						1	
4	COS	100-30010	EROSION CONTROL SUPERVISOR	LS	1						1	
5	COS	100-40000	LANDSCAPING/AESTHETICS	LS	1						1	
6	COS	202-00000	UNCLASSIFIED EXCAVATION	CY	2,848						2,848	
7	COS	202-00100	STRUCTURE EXCAVATION	CY	3,776						3,776	
8	COS	202-01100	REMOVAL OF GUARDRAIL	LF	217						217	
9	COS	202-05004	SAWING CONCRETE (4 INCH)	LF	106						106	
10	CDOT	203-00100	STRUCTURE BACKFILL (CLASS 1)	CY	1,091						1,091	
11	CDOT	203-01597	POTHOLING	HOUR	80						80	
12	CDOT	207-00704	SUBGRADE SOIL PREPARATION	SY	3,170						3,170	
13	COS	212-00100	TREE RETENTION AND PROTECTION	LS	1						1	
14	CDOT	214-00220	DECIDUOUS TREE (2 INCH CALIPER)	EACH	23						23	
15	CDOT	214-00260	DECIDUOUS TREE (6 FOOT)	EACH	21						21	
16	CDOT	214-00910	PERENNIAL (#1 CONTAINER)	EACH	247						247	
17	COS	220-00002	REMOVAL OF STRUCTURE (DRAINAGE)	LS	1						1	
18	COS	220-00010	REMOVAL OF TREE	EACH	3						3	
19	COS	220-00018	REMOVAL OF MANHOLE	EACH	1						1	
20	COS	220-00019	REMOVAL OF DRAINAGE INLET	EACH	5						5	
21	COS	220-00026	REMOVAL OF CONCRETE SLOPE PAVEMENT	SY	1,438						1,438	
22	COS	220-00090	REMOVAL OF DELINEATOR	EACH	4						4	
23	COS	220-00200	REMOVAL OF SIDEWALK	SY	549						549	
24	COS	220-00203	REMOVAL OF CURB AND GUTTER	LF	2,408						2,408	
25	COS	220-00210	REMOVAL OF CONCRETE PAVEMENT	SY	204						204	
26	COS	220-00220	REMOVAL OF ASPHALT MAT	SY	4,625						4,625	
27	COS	220-00230	REMOVAL OF ASPHALT MAT (MILLING)	SY	899						899	
28	COS	220-00250	REMOVAL OF PAVEMENT MARKINGS	SF	6,600						6,600	
29	COS	220-00700	REMOVAL OF LIGHT POLE	EACH	2						2	
30	COS	220-00810	REMOVAL OF SIGN POST	EACH	22						22	
31	COS	220-00821	REMOVAL OF SIGN PANEL	EACH	1						1	
32	COS	220-01300	REMOVAL OF END ANCHORAGE	EACH	4						4	
33	COS	220-04010	REMOVAL OF STORM DRAIN (10 INCH)	LF	77						77	
34	COS	220-04012	REMOVAL OF STORM DRAIN (12 INCH)	LF	10						10	
35	COS	220-04018	REMOVAL OF STORM DRAIN (18 INCH)	LF	133						133	
36	COS	220-04042	REMOVAL OF STORM DRAIN (42 INCH)	LF	174						174	
37	COS	220-04045	REMOVAL OF STORM DRAIN (29x45 INCH)	LF	50						50	
38	COS	220-08000	SAWCUT ASPHALT	LF	790						790	
39	CDOT	240-00000	WILDLIFE BIOLOGIST	HOUR	8						8	
40	CDOT	240-00810	RESET SIGN POST	EACH	2						2	
41	CDOT	240-00821	RESET SIGN PANEL	EACH	3						3	
42	CDOT	250-00010	ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT	LS	1						1	
43	CDOT	250-00110	HEALTH AND SAFETY OFFICER	HOUR	40						40	
44	COS	304-06007	AGGREGATE BASE COURSE (CLASS 6)	CY	1,860						1,860	
45	COS	400-50500	ASPHALT PAVING MATERIAL (GRADING S) (5 INCH)	SY	3,020						3,020	
46	COS	400-60200	ASPHALT PAVING MATERIAL (GRADING SX) (2 INCH)	SY	3,950						3,950	
47	COS	400-70001	ASPHALT PAVING MATERIAL (PATCHING)	SY	10						10	
48	COS	410-00000	EMULSIFIED ASPHALT (SLOW SETTING)	GAL	3,720						3,720	
49	COS	412-01001	CONCRETE PAVEMENT (10 INCH) (SPECIAL)	SY	520						520	

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31ST ST & FONTANERO ST
SUMMARY OF
APPROXIMATE QUANITIES

Designer: JDM
Detailer: BKM
Sheet Subset: SOAQ
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 3

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number 6

Know what's below. Call before you dig.

BID ITEM NUMBER	AGENCY SPEC	ITEM CODE	ITEM DESCRIPTION	UNITS	SCHEDULE A		SCHEDULE B (WATER)		SCHEDULE C (SANITARY)		PROJECT TOTALS	
					PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST
		CONSTRUCTION ITEMS										
50	COS	430-00600	CONCRETE PAVEMENT (6 INCH)	SY	840						840	
51	COS	500-00500	CONCRETE CURB RAMP (6-INCHES)	SF	1,560						1,560	
52	COS	500-01080	CONCRETE SIDEWALK/DRIVEWAY (8-INCH REINFORCED)	SF	2,850						2,850	
53	COS	500-02005	NO. 57 STONE AGGREGATE (COMPLETE IN PLACE)	CY	693						693	
54	COS	500-51000	CURB AND GUTTER TYPE 1 (CATCH)	LF	1,790						1,790	
55	COS	500-51001	CURB AND GUTTER TYPE 1 (SPILL)	LF	140						140	
56	COS	500-53000	CURB AND GUTTER TYPE 3 (SPILL)	LF	600						600	
57	COS	500-53003	ROUNDABOUT APRON	LF	290						290	
58	COS	520-00301	TYPE 3 GUARDRAIL	LF	180						180	
59	COS	520-02340	END ANCHORAGE TYPE 3D	EACH	2						2	
60	COS	520-02410	END ANCHORAGE TYPE 3K	EACH	2						2	
61	CDOT	530-11525	FENCE PLASTIC	LF	3,372						3,372	
62	CDOT	540-00204	SAFETY RAILING	LF	347						347	
63	CDOT	550-00120	WATERPROOFING MEMBRANE	SY	625						625	
64	CDOT	600-00020	REINFORCING STEEL (EPOXY COATED)	LB	224,928						224,928	
65	CDOT	600-03001	CONCRETE CLASS D (SPECIAL)	EACH	3						3	
66	CDOT	600-03030	CONCRETE CLASS D (BOX CULVERT)	CY	526						526	
67	CDOT	600-03050	CONCRETE CLASS D (WALL)	CY	353						353	
68	CSU	603-83008	PIPE, PVC, SDR 26, SLIP JOINT, 8"	FT					222		222	
69	CSU	604-30000	48" CONCRETE MANHOLE	EA					3		3	
70	CDOT	605-00060	6-INCH PERFORATED UNDERDRAIN PIPE	LF	585						585	
71	CSU	608-00060	STONE, STEPPING, 4"X18"X18"	EA			4				4	
72	CSU	619-06070	CLAMP, MJ, RSTNT, 6" PVC	EA			6				6	
73	CSU	619-06071	KIT, MJ, GLAND ACCESSORY PACK, 6"	EA			2				2	
74	CSU	619-06090	TEE, ANCHORING, 8"X6", MJXMJXSW	EA			2				2	
75	CSU	619-06091	BEND, MJ, 8"X45°, CLASS 350, C153, DUCTILE IRON SSB	EA			9				9	
76	CSU	619-06092	BEND, MJ, 8"X22-1/2°, CLASS 350, C153, DUCTILE IRON SSB	EA			2				2	
77	CSU	619-06093	BEND, MJ, 8"X11-1/4°, CLASS 350, C153, DUCTILE IRON SSB	EA			2				2	
78	CSU	619-06094	REDUCER, PIPE, MJ, 8"X6", SEB, CLASS 350, C153, DUCTILE IRON, W/O ACCESSORIES	EA			4				4	
79	CSU	619-06095	CLAMP, MJ, RESTRAINT, 8 INCH PVC, 200 PSI RATED, W/ACCESSORIES KIT	EA			55				55	
80	CSU	619-06096	CLAMP, MJ, RESTRAINT, 6 INCH PVC, 200 PSI RATED, W/ACCESSORIES KIT	EA			6				6	
81	CSU	619-06097	COUPLING, SOLID SLEEVE, 8", MJ, LONG 8", FOR 8" PIPE, CLASS 350	EA			4				4	
82	CSU	619-10127	12 INCH STEEL SLEEVE	FT					34		34	
83	CSU	619-40060	PIPE, TUBING, COPPER, 3/4", TYPE K, SOFT (100')	FT			357				357	
84	CSU	619-50480	PIPE, PVC, SLIP JOINT, 6"	FT			26				26	
85	CSU	619-50641	PIPE, PVC, SLIP JOINT, 8"	FT			779				779	
86	CSU	619-75048	VALVE, MJ, GATE, OR, 250#, 6"	EA			2				2	
87	CSU	619-75064	VALVE, MJ, GATE, OR, 250#, 8"	EA			6				6	
88	CSU	619-77300	CORPORATION STOP, 3/4"	EA			3				3	
89	CSU	619-78042	HYDRANT, FIRE, 5-1/4" x 6' BURY, 250 PSI	EA			2				2	
90	CSU	619-80000	ANODE, 9#	EA			25				25	
91	CSU	619-80001	ANODE, 17#	EA			6				6	
92	CSU	623-04006	COUPLING, UNION, 3/4" FLR X FLR	EA			3				3	
93	CDOT	625-06060	CONCRETE SLOPE PAVEMENT (REINFORCED) (6")	CY			35				35	
94	CDOT	625-06080	CONCRETE SLOPE PAVEMENT (REINFORCED) (8")	CY			42				42	
95	COS	630-50006	6 INCH PLASTIC PIPE (COMPLETE IN PLACE)	LF			42				42	
96	COS	630-50018	18" PLASTIC PIPE (HP-STORM)	LF	221						221	

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31ST ST & FONTANERO ST
SUMMARY OF
APPROXIMATE QUANITIES

Designer: JDM
Detailer: BKM
Sheet Subset: SOAQ
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 2 of 3

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number 7

Know what's below. Call before you dig.

BID ITEM NUMBER	AGENCY SPEC	ITEM CODE	ITEM DESCRIPTION	UNITS	SCHEDULE A		SCHEDULE B (WATER)		SCHEDULE C (SANITARY)		PROJECT TOTALS	
					PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST
		CONSTRUCTION ITEMS										
97	COS	630-50024	24" PLASTIC PIPE (HP-STORM)	LF	130						130	
98	COS	630-50036	36" PLASTIC PIPE (HP-STORM)	LF	43						43	
99	COS	630-50042	42" PLASTIC PIPE (HP-STORM)	LF	132						132	
100	COS	636-01050	INLET TYPE 1 (L=5')	EACH	3						3	
101	COS	636-02100	INLET TYPE 2 (L=10')	EACH	3						3	
102	COS	636-02300	MODIFIED INLET TYPE 3 DOUBLE	EACH	4						4	
103	COS	636-32005	MANHOLE TYPE 2 (60" DIA)	EACH	1						1	
104	COS	636-32006	MANHOLE TYPE 2 (72" DIA)	EACH	2						2	
105	CDOT	812-00039	DELINEATOR (FLEXIBLE) (SURFACE MOUNTED)	EACH	6						6	
106	CSU	813-00214	1-1/4 INCH ELECTRICAL CONDUIT (LIGHTING)	LF	800						800	
107	CSU	813-40010	LIGHT STANDARD FOUNDATION	EACH	8						8	
108	COS	814-00010	SIGN PANEL (CLASS I)	SF	345						345	
109	COS	814-10200	STEEL SIGN POST (2 INCH, TUBULAR)	LF	610						610	
110	CDOT	814-80003	RECTANGULAR RAPID FLASHING BEACON	EACH	3						3	
111	COS	825-00000	CONSTRUCTION SURVEYING	LS	1						1	
112	CDOT	827-32000	EPOXY PAVEMENT MARKING	SF	65						65	
113	CDOT	827-34050	PREFORMED THERMOPLASTIC PAVEMENT MARKING	SF	691						691	
114	CDOT	827-34055	PREFORMED THERMOPLASTIC PAVEMENT MARKING (INLAID)	SF	450						450	
115	COS	830-10000	TRAFFIC CONTROL	LS	1						1	
116	COS	901-00003	ROCK SOCKS	LF	432						432	
117	COS	901-00020	SILT FENCE	LF	2,148						2,148	
118	COS	901-00045	CONCRETE WASHOUT STRUCTURE	EACH	2						2	
119	COS	901-00046	CHECK DAM	EACH	2						2	
120	COS	901-00050	STORM DRAIN INLET PROTECTION	EACH	6						6	
121	CDOT	901-00070	STABILIZED CONSTRUCTION ENTRANCE	EACH	2						2	
122	CDOT	901-01622	SWEEPING (PICKUP BROOM)	HOUR	200						200	
123	CDOT	902-00019	DECIDOUS SHRUB (5 GAL.)	EACH	107						107	
124	CDOT	902-00020	EVERGREEN SHRUB (5 GAL.)	EACH	217						217	
125	CDOT	902-00021	PERENNIAL (4" POTS)	EACH	2,873						2,873	
126	CDOT	902-00024	ORNAMENTAL GRASS (1 GAL.)	EACH	433						433	
127	COS	912-00049	SOIL PREPARATION	LS	1						1	
128	CDOT	940-00000	LANDSCAPE MAINTENANCE	LS	1						1	
129	COS	990-70010	F/A MINOR CONTRACT REVISIONS	FA	1						1	
130	COS/CDOT	990-70030	DEWATERING	FA	1						1	
131	CDOT	990-70040	ON THE JOB TRAINING	FA	1						1	

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31ST ST & FONTANERO ST
SUMMARY OF
APPROXIMATE QUANITIES

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Detailer: BKM
Sheet Subset: SOAQ
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 3 of 3

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number 8

Know what's below. Call before you dig.

TABULATION OF REMOVALS

	CDOT ITEM NUMBERS											
	201-00000	220-01100	202-05004	202-00010	202-00200	202-00203	202-00210	220-00220	N/A			
	COLORADO SPRINGS ITEM NUMBERS											
LOCATION	100-10000	202-01100	N/A	220-00010	220-00200	220-00203	220-00210	220-00220	220-00230	220-01300	220-08000	
	CLEARING AND GRUBBING	REMOVAL OF GUARDRAIL	SAWING CONCRETE (4 INCH)	REMOVAL OF TREE	REMOVAL OF SIDEWALK	REMOVAL OF CURB AND GUTTER	REMOVAL OF CONCRETE PAVEMENT	REMOVAL OF ASPHALT MAT	REMOVAL OF ASPHALT MAT (MILLING)	REMOVAL OF END ANCHORAGE	SAWCUT ASPHALT	
	LS	LF	LF	EACH	SY	LF	SY	SY	SY	EACH	LF	
	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	
SHEET 1												
10+00 TO 34+50	1	0	30	0	68	464	52	554	172	0	101	
SHEET 2												
34+50 TO 36+50		217	39	3	384	1426	109	3380	683	4	637	
SHEET 3												
36+50 TO 39+20		0	37	0	97	518	43	691	44	0	52	
PROJECT TOTALS	**1**	**217**	**106**	**3**	**549**	**2408**	**204**	**4625**	**899**	**4**	**790**	

TABULATION OF ROADWAY ITEMS

	CDOT ITEM NUMBERS																
	207-00704	304-06007	N/A	N/A	403-00721	411-10255	412-00600	412-01001	600-03001	608-00010	N/A	N/A	N/A	609-40120	N/A	606-01340	606-01340	606-01390
	COLORADO SPRINGS ITEM NUMBERS																	
	N/A	N/A	400-50500	400-60200	400-70001	410-00000	430-00600	N/A	N/A	500-00500	500-01080	500-51000	500-51001	500-53000	500-53003	520-00301	520-02340	520-02410
LOCATION	SUBGRADE SOIL PREPARATION	AGGREGATE BASE COURSE (CLASS 6)	ASPHALT PAVING MATERIAL (GRADING S) (5 INCH) 2 LIFTS AT 2.5"	ASPHALT PAVING MATERIAL (GRADING SX) (2 INCH)	ASPHALT PAVING MATERIAL (PATCHING)	EMULSIFIED ASPHALT (SLOW SETTING)	CONCRETE PAVEMENT (6 INCH)	CONCRETE PAVEMENT (10 INCH) (SPECIAL)	CONCRETE CLASS D (SPECIAL)	CONCRETE CURB RAMP (6-INCHES)	CONCRETE SIDEWALK/DRIVE WAY (8-INCH REINFORCED)	CURB AND GUTTER TYPE 1 (CATCH)	CURB AND GUTTER TYPE 1 (SPILL)	CURB AND GUTTER TYPE 3 (SPILL)	ROUNDABOUT APRON	TYPE 3 GUARDRAIL	END ANCHORAGE TYPE 3D	END ANCHORAGE TYPE 3K
	SY	CY	SY	SY	SY	GAL	SY	SY	EACH	SF	SF	LF	LF	LF	LF	LF	EACH	EACH
	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL	PLAN FINAL
SHEET 1																		
10+00 TO 34+50	411	203	411	588	0	100	131	0	0	0	812	385	0	0	0	30	1	1
SHEET 2																		
34+50 TO 36+50	2019	1292	2019	2725	8	2926	563	520	0	1557	1278	1002	73	598	286	112	0	0
SHEET 3																		
36+50 TO 39+20	589	269	589	631	0	690	140	0	3	0	755	402	62	0	0	35	1	1
PROJECT TOTALS	**3019**	**1764**	**3019**	**3944**	**8**	**3716**	**834**	**520**	**3**	**1557**	**2845**	**1789**	**135**	**598**	**286**	**177**	**2**	**2**
USE	**3170**	**1860**	**3020**	**3950**	**10**	**3720**	**840**	**520**	**3**	**1560**	**2850**	**1790**	**140**	**600**	**290**	**180**	**2**	**2**

NOTES: 13" OF ABC CLASS 6 UNDER 7" OF HMA
6" THICKNESS FOR THE PROPOSED CONCRETE SIDEWALK WITH 6" ABC UNDER IT
6" ABC UNDER THE CONCRETE CURB RAMP, ROUNDABOUT APRON AND CONCRETE COVER MATERIAL
THE ROUNDABOUT APRON IS QUANTIFIED UNDER CONCRETE PAVEMENT (10 INCH)
DRIVEWAYS ARE QUANTIFIED UNDER CONCRTE SIDEWALK/DRIVEWAY (8-INCH REINFORCED)
THE SUBGRADE SOIL PREPARATION CONSISTS OF 6"
THE TOP 2" OF MILLING IS FACTORED INTO THE ASPHALT PAVING MATERIAL (GRADING SX)(2 INCH)

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31ST ST & FONTANERO ST TABULATIONS

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Subset Sheets: 1 of 2

Project No./Code
Project #STU-M240-203
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TABULATION OF MISCELLANEOUS ITEMS

	CDOT ITEM NUMBERS																					
	202-00700		203-01597		240-00000		250-00010		250-00110		626-00000		603-50006		625-00000							
	COLORADO SPRINGS ITEM NUMBERS																					
LOCATION	220-00700		N/A		N/A		N/A		N/A		100-00000		630-50006		825-00000		830-10000		990-70010		990-70030		990-70040	
	REMOVAL OF LIGHT POLE		POTHOLING		WILDLIFE BIOLOGIST		ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT		HEALTH AND SAFETY OFFICER		MOBILIZATION		6 INCH PLASTIC PIPE (COMPLETE IN PLACE)		CONSTRUCTION SURVEYING		TRAFFIC CONTROL		F/A MINOR CONTRACT REVISIONS		DEWATERING		ON THE JOB TRAINING	
	EACH		HOUR		HOUR		LS		HOUR		LS		LF		LS		LS		FA		FA		FA	
	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
PROJECT WIDE	2		80		8		1		40		1		42		1		1		1		1		1	
PROJECT TOTALS	2		80		8		1		40		1		42		1		1		1		1		1	

TABULATION OF EARTHWORK

ITEM	CUBIC YARDS PLAN	FINAL
202-00000 UNCLASSIFIED EXCAVATION	**2,848**	
203-00000 EMBANKMENT MATERIAL TOTAL	**463**	
-- FOR INFORMATION ONLY --		
EARTHWORK BALANCE		
Unclassified Excavation (CIP)	2,848	
Muck Excavation[2]		
Embankment Material (CIP)	463	
EMBANKMENT X FACTOR		
Embankment Material (Net) (X 1.1)	**510**	
Total Import Embankment	-2,338	

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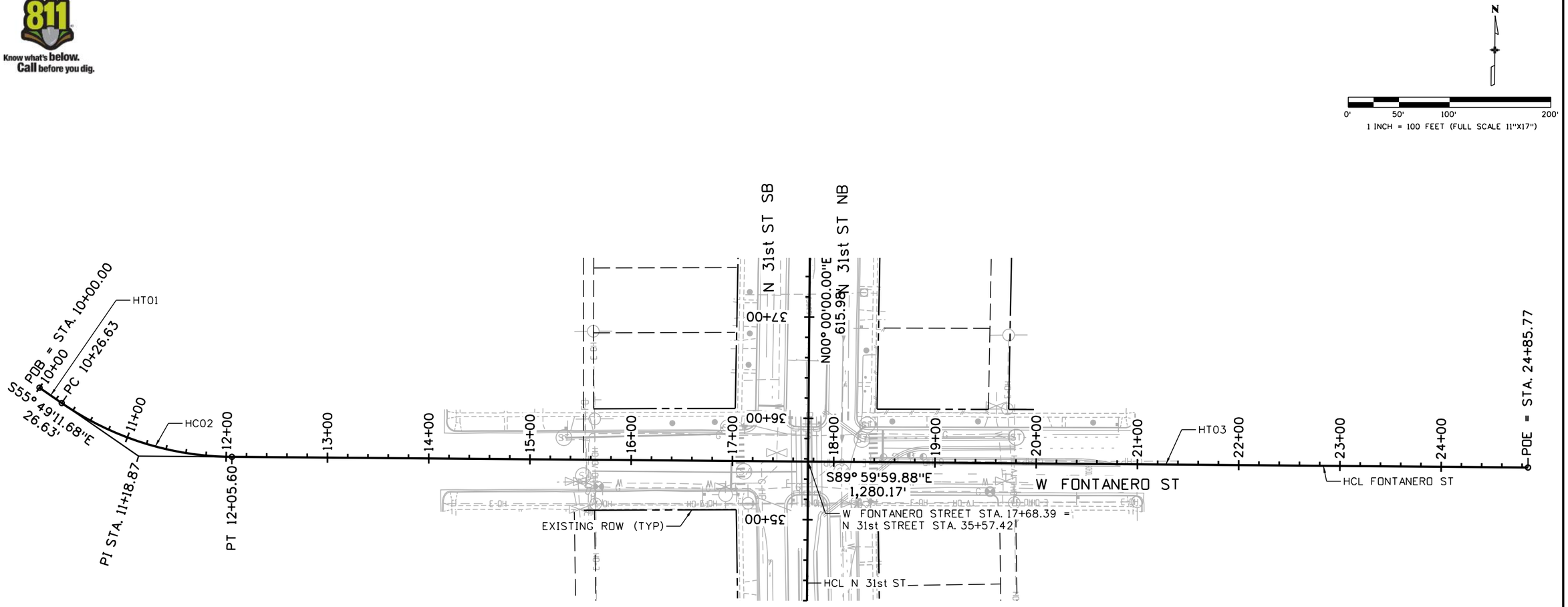
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W FONTANERO ST ALIGNMENT								
ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT01	POB	10+00.00	1374917.01	3179174.97	S55°49'11.67"E		26.63'	
	PC	10+26.63	1374902.05	3179197.00				
HC02	PC	10+26.63	1374902.05	3179197.00		700'	178.97	34°10'48.20" Left
	PI	11+18.87	1374850.23	3179273.30				
	PT	12+05.60	1374850.23	3179365.54				
HT03	PT	12+05.60	1374850.23	3179365.54	S89°59'59.88"E		1280.17'	
	POE	24+85.77	1374850.23	3180645.71				

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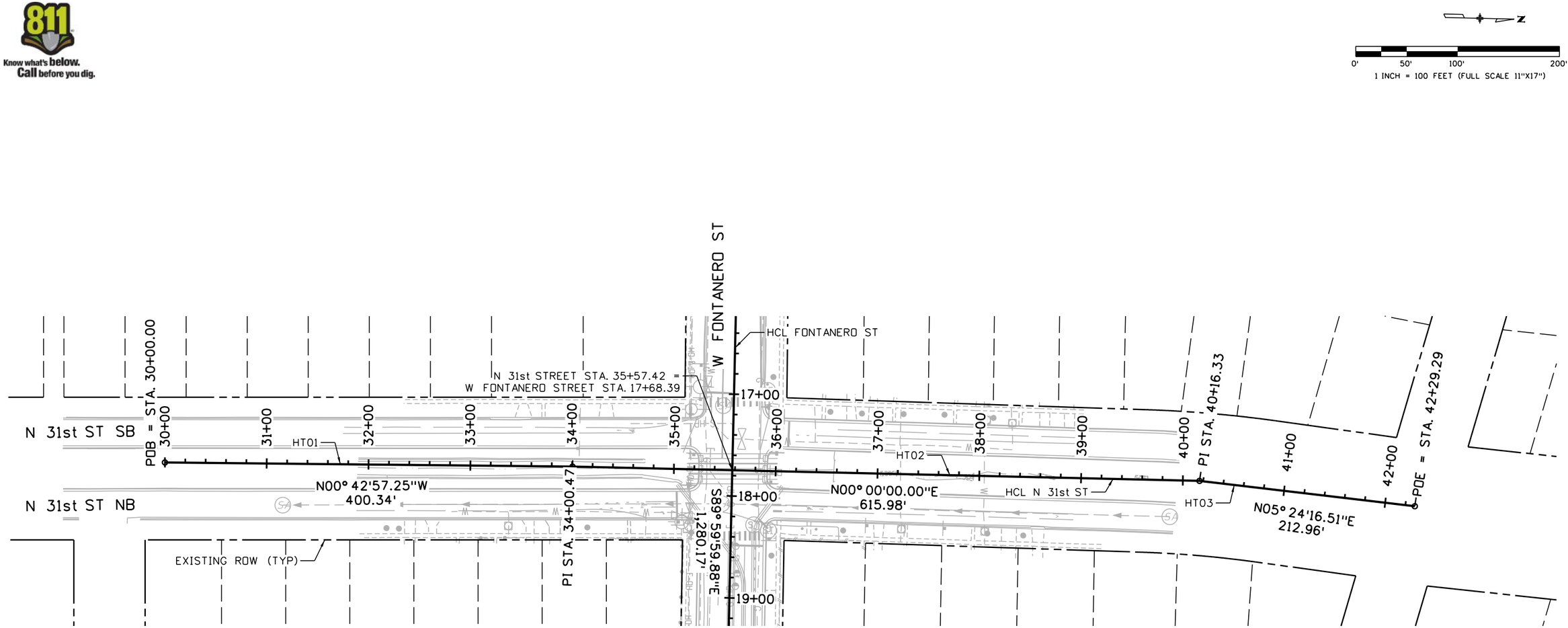
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GEOMETRIC LAYOUT
N FONTANERO ST

Designer: JDM
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Sheet Subset: GEOM
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 8

Project No./Code
Project #STU-M240-203
Bid #__-__
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31ST STREET ALIGNMENT								
ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT01	POB	30+00.00	1374292.97	3179939.64	N00°42'57.25"W		400.34'	
	PI	34+00.34	1374693.29	3179934.64				
HT02	PI	34+00.34	1374693.29	3179934.64	N00°00'00.00"E		615.98	
	PI	40+16.33	1375309.27	3179934.64				
HT03	PI	40+16.33	1375309.27	3179934.64	N05°24'16.51"E		212.96'	
	POE	42+29.29	1375521.28	3179954.69				

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File Name: 23916GN_05-02_GEOM.dgn
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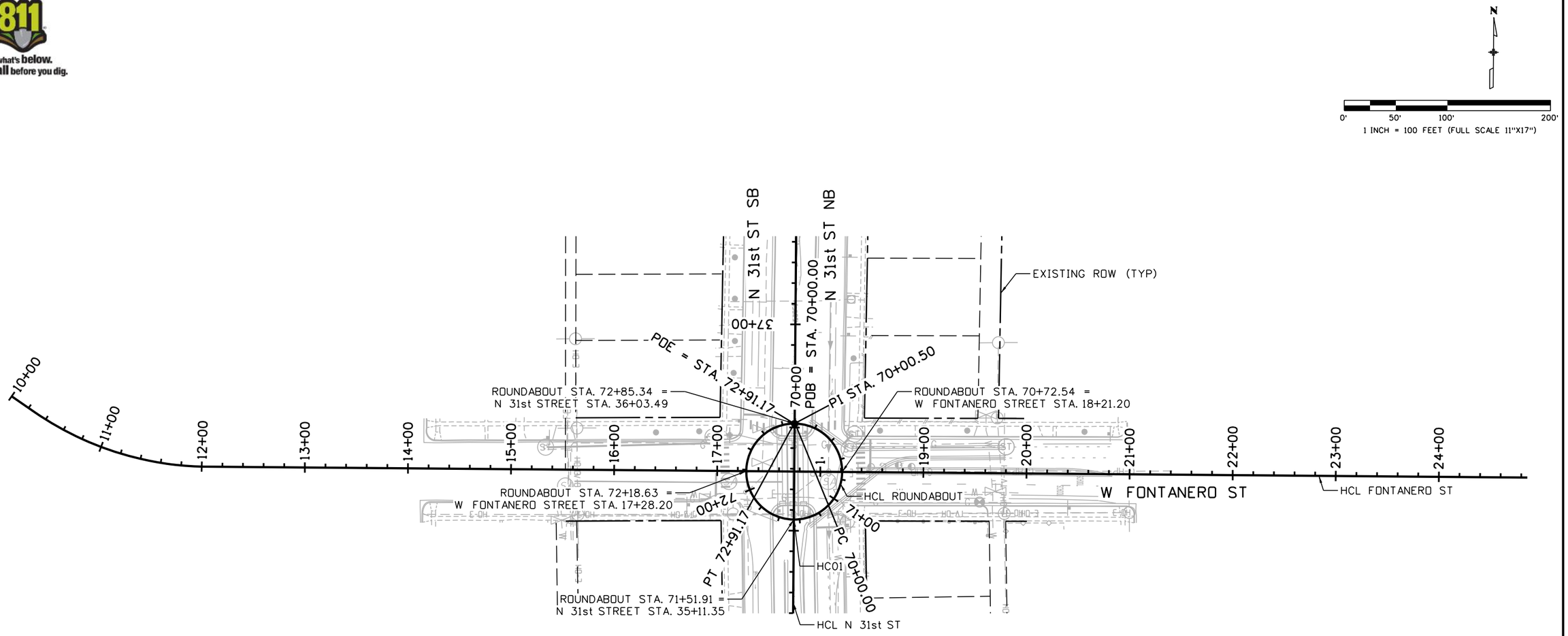
31ST ST & FONTANERO ST
GEOMETRIC LAYOUT
N 31st ST

Designer: JDM
Detailer: BKM
Sheet Subset: GEOM
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 2 of 8

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

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ICD ALIGNMENT								
ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HC01	POB	70+00.00	1374896.73	3179935.14		46.5'	291.17'	358°46'04.10" Right
	POE	72+91.17	1374850.23	3179934.64				

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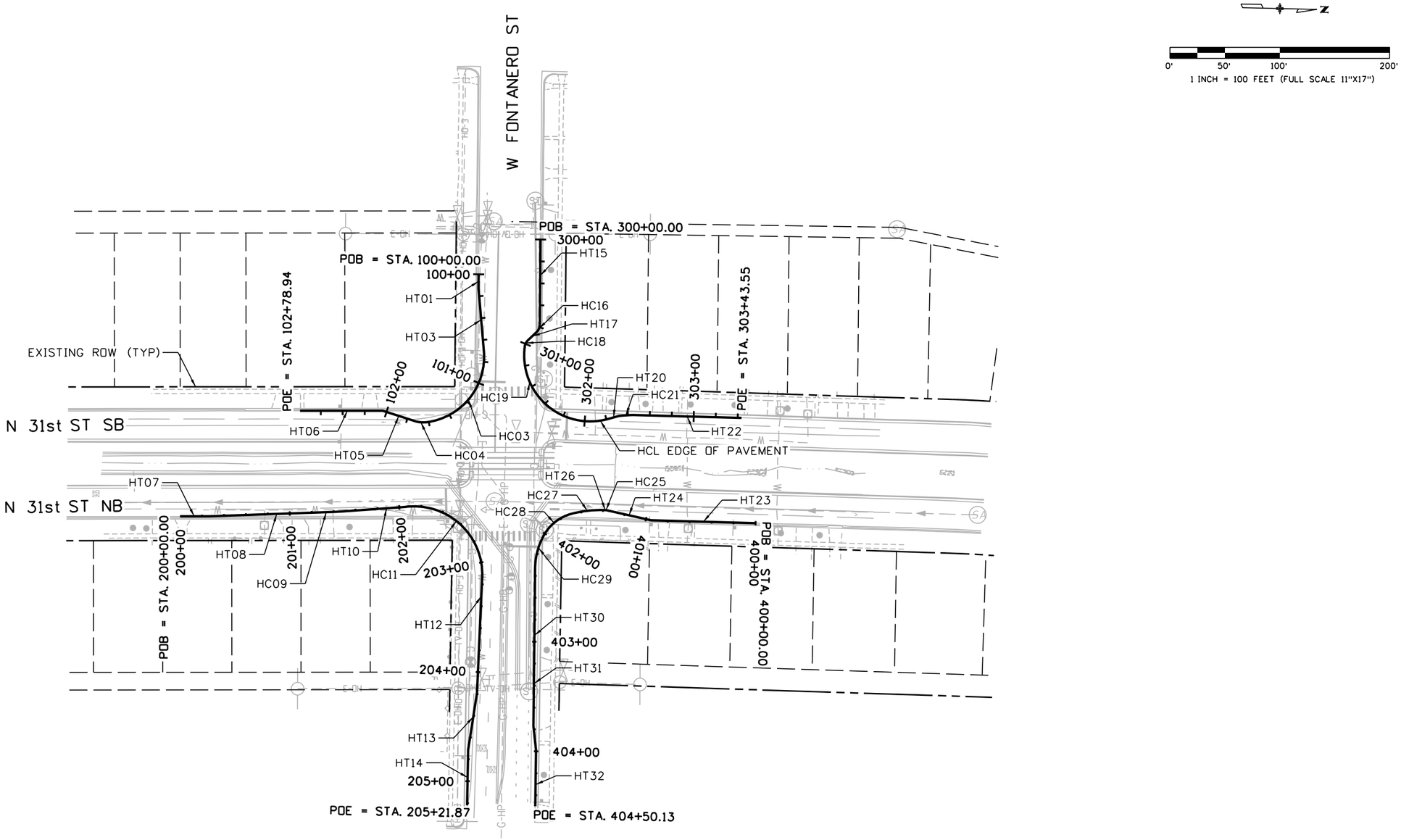
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31ST ST & FONTANERO ST
GEOMETRIC LAYOUT
ROUNDABOUT

Designer: JDM
Detailer: BKM
Sheet Subset: GEOM
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 3 of 8

Project No./Code
Project #STU-M240-203
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31ST ST & FONTANERO ST GEOMETRIC LAYOUT EDGE OF PAVEMENT				Project No./Code
Designer: JDM	Structure Numbers	CSG-E.00-10.57A		Project #STU-M240-203
Detailer: BKM				Bid #__-__
Sheet Subset: GEOM	Subset Sheets: 4 of 8			Sheet Number

Know what's below. Call before you dig.

EASTBOUND TO SOUTHBOUND EDGE OF PAVEMENT ALIGNMENT

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT01	POB	100+00.00	1374821.69	3179761.34	N89°21'47.57"E		12.92'	
	PT	100+12.92	1374821.84	3179774.25				
HT02	PT	100+12.92	1374821.84	3179774.25	N83°45'35.20"E		57.25'	
	PC	100+70.17	1374828.06	3179831.17				
HC03	PC	100+70.17	1374828.06	3179831.17		60'	91.68'	87°32'40.79" Right
	PI	101+27.65	1374834.31	3179888.31				
	PC	101+61.85	1374777.49	3179897.00				
HC04	PC	101+61.85	1374777.49	3179897.00		25'	11.04'	25°17'21.98" Right
	PI	101+67.46	1374771.94	3179897.85				
	PT	101+72.88	1374766.57	3179896.25				
HT05	PT	101+72.88	1374766.57	3179896.25	S16°35'37.23"W		30.71'	
	PT	102+03.59	1374737.14	3179887.48				
HT06	PT	102+03.59	1374737.14	3179887.48	S01°18'18.66"E		75.35'	
	POE	102+78.94	1374661.81	3179889.19				

NORTHBOUND TO EASTBOUND EDGE OF PAVEMENT ALIGNMENT

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT07	POB	200+00.00	1374554.63	3179987.63	N01°11'22.24"W		25.89'	
	PT	200+25.89	1374580.51	3179987.09				
HT08	PT	200+25.89	1374580.51	3179987.09	N03°15'14.95"W		110.97'	
	PC	201+36.86	1374691.30	3179980.79				
HC09	PC	201+36.86	1374691.30	3179980.79		312'	11.10'	02°02'19.97" Left
	PI	201+42.41	1374696.85	3179980.48				
	PT	201+47.96	1374702.37	3179979.96				
HT10	PT	201+47.96	1374702.37	3179979.96	N05°17'34.92"W		56.56'	
	PC	202+04.53	1374758.70	3179974.75				
HC11	PC	202+04.53	1374758.70	3179974.75		62'	109.19'	100°54'30.54" Right
	PI	202+79.62	1374832.74	3179962.24				
	PT	203+13.72	1374831.01	3180037.31				
HT12	PT	203+13.72	1374831.01	3180037.31	S88°40'56.659"E		105.172'	
	PT	204+18.89	1374828.59	3180142.45				
HT13	PT	204+18.89	1374828.59	3180142.45	S82°19'42.44"E		52.59'	
	PT	204+71.48	1374821.57	3180194.57				
HT14	PT	204+71.48	1374821.57	3180194.57	N89°44'04.24"E		50.39'	
	POE	205+21.87	1374821.80	3180244.96				

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31ST ST & FONTANERO ST
GEOMETRIC LAYOUT TABLES
EDGE OF PAVEMENT

Designer: JDM
Detailer: BKM
Sheet Subset: GEOM
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 5 of 8

Project No./Code
Project #STU-M240-203
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SOUTHBOUND TO EASTBOUND EDGE OF PAVEMENT ALIGNMENT								
ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT15	POB	300+00.00	1374877.36	3179728.44	N89°12'30.61"E		77.37'	
	PC	300+77.37	1374878.43	3179805.80				
HC16	PC	300+77.37	1374878.43	3179805.80		10'	8.07'	46°14'41.89" Right
	PI	300+81.64	1374878.49	3179810.07				
	PT	300+85.44	1374875.45	3179813.07				
HT17	PT	300+85.44	1374875.45	3179813.07	S44°33'33.02"E		10.32'	
	PC	300+95.76	1374868.09	3179820.31				
HC18	PC	300+95.76	1374868.09	3179820.31		10'	6.80'	38°55'51.40" Left
	PI	300+99.30	1374865.57	3179822.79				
	PC	301+02.56	1374865.17	3179826.30				
HC19	PC	301+02.56	1374865.17	3179826.30		60'	118.90'	113°32'35.68" Left
	PI	301+94.15	1374854.79	3179917.30				
	PT	302+21.46	1374942.36	3179890.47				
HT20	PT	302+21.46	1374942.36	3179890.47	N16°20'49.12"W		10.42'	
	PC	302+31.88	1374952.35	3179887.54				
HC21	PC	302+31.88	1374952.35	3179887.54		138'	12.65'	05°15'06.37" Right
	PI	302+38.21	1374958.63	3179886.68				
	PC	302+44.53	1374964.95	3179886.41				
HT22	PC	302+44.53	1374964.95	3179886.41	N00°17'31.10"E		99.03'	
	POE	303+43.56	1375063.98	3179886.91				

EASTBOUND TO NORTHBOUND EDGE OF PAVEMENT ALIGNMENT								
ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT23	POB	400+00.00	1375078.84	3179982.44	S00°17'58.28"W		95.10'	
	PT	400+95.10	1374983.74	3179981.95				
HT24	PT	400+95.10	1374983.74	3179981.95	S11°31'58.13"W		41.19'	
	PC	401+36.29	1374943.39	3179973.71				
HC25	PC	401+36.29	1374943.39	3179973.71		5'	0.90'	10°20'07.02" Left
	PI	401+36.74	1374942.94	3179973.62				
	PT	401+37.19	1374942.49	3179973.62				
HT26	PT	401+37.19	1374942.49	3179973.62	S00°55'59.04"W		1.63'	
	PC	401+38.82	1374940.86	3179973.59				
HC27	PC	401+38.82	1374940.86	3179973.59		100'	31.04	17°47'12.51" Left
	PI	401+54.47	1374925.21	3179973.33				
	PC	401+69.86	1374910.24	3179977.87				
HC28	PC	401+69.86	1374910.24	3179977.87		40'	31.19'	44°40'43.05" Left
	PI	401+86.30	1374894.51	3179982.64				
	PC	402+01.06	1374886.67	3179997.09				
HC29	PC	402+01.06	1374886.67	3179997.09		64'	32.56'	29°08'58.69" Left
	PI	402+17.70	1374878.74	3180011.72				
	PT	402+33.62	1374878.94	3180028.36				
HT30	PT	402+33.62	1374878.94	3180028.36	N89°19'04.80"E		143.36'	
	PT	403+76.97	1374880.64	3180171.70				
HT31	PT	403+76.97	1374880.64	3180171.70	N82°32'13.035"E		21.966'	
	PT	403+98.94	1374883.50	3180193.48				
HT32	PT	403+98.94	1374883.50	3180193.48	N89°39'38.99"E		51.19'	
	POE	404+50.13	1374883.80	3180244.67				

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31ST ST & FONTANERO ST
GEOMETRIC LAYOUT TABLES
EDGE OF PAVEMENT

Designer: JDM
Detailer: BKM
Sheet Subset: GEOM
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 6 of 8

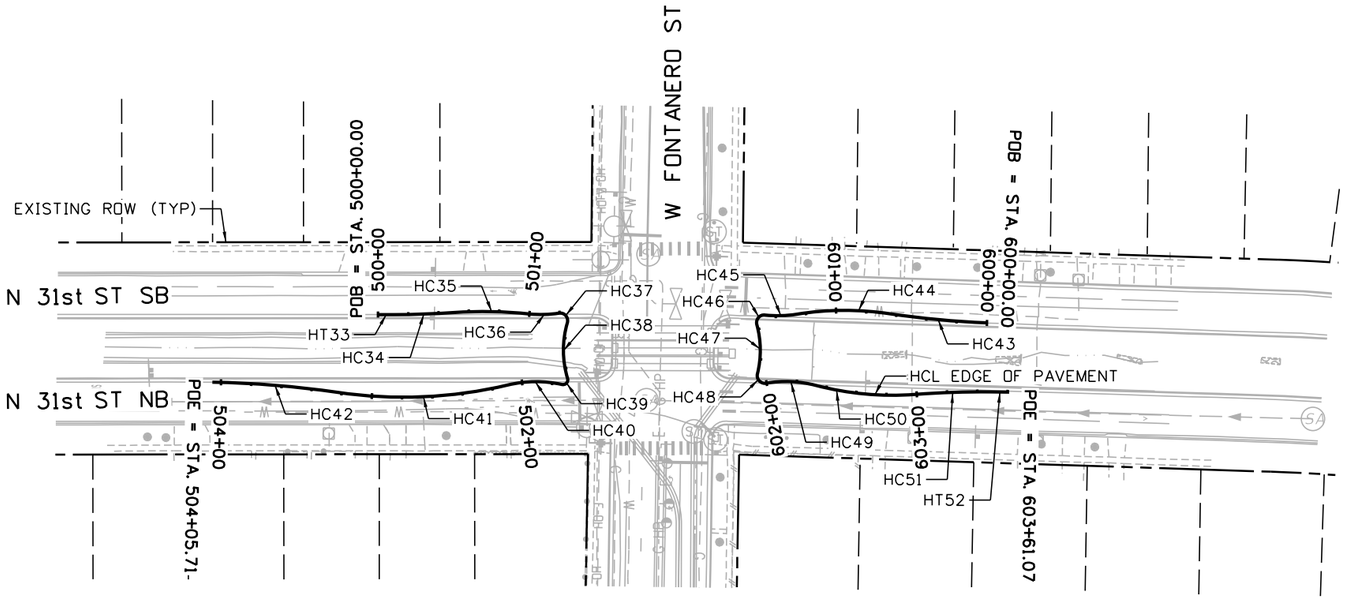
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0' 50' 100' 200'

1 INCH = 100 FEET (FULL SCALE 11"X17")



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File Name: 23916GN_05-07_GEOM.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108		Project #STU-M240-203
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SOUTH CHANNEL EDGE OF PAVEMENT ALIGNMENT

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT33	POB	500+00.00	1374662.40	3179915.10	N01°18'11.20"W		10.69'	
	PC	500+10.69	1374673.09	3179914.86				
HC34	PC	500+10.69	1374673.09	3179914.86		600'	39.28'	03°45'02.69" Left
	PI	500+30.34	1374692.73	3179914.41				
	PC	500+49.97	1374712.30	3179912.68				
HC35	PC	500+49.97	1374712.30	3179912.68		300'	50.24'	09°35'41.69" Right
	PI	500+75.15	1374737.38	3179910.46				
	PC	501+00.21	1374762.48	3179912.45				
HC36	PC	501+00.21	1374762.48	3179912.45		75'	19.36'	14°47'15.18" Left
	PI	501+09.94	1374772.18	3179913.23				
	PC	501+19.56	1374781.76	3179911.49				
HC37	PC	501+19.56	1374781.76	3179911.49		5'	10.07'	115°20'03.94" Right
	PI	501+27.46	1374789.53	3179910.09				
	PC	501+29.63	1374787.47	3179917.72				
HC38	PC	501+29.63	1374787.47	3179917.72		65'	37.49'	33°02'36.76" Left
	PI	501+48.91	1374782.46	3179936.33				
	PC	501+67.12	1374788.40	3179954.67				
HC39	PC	501+67.12	1374788.40	3179954.67		3'	6.24'	119°09'48.20" Right
	PI	501+72.22	1374789.97	3179959.53				
	PC	501+73.35	1374784.96	3179958.54				
HC40	PC	501+73.35	1374784.96	3179958.54		80'	36.04'	25°48'47.68" Left
	PI	501+91.69	1374766.98	3179954.98				
	PC	502+09.40	1374749.24	3179959.60				
HC41	PC	502+09.40	1374749.24	3179959.60		300'	113.49'	21°40'32.50" Right
	PI	502+66.83	1374693.66	3179974.08				
	PC	503+22.89	1374636.67	3179967.01				
HC42	PC	503+22.89	1374636.67	3179967.01		650'	82.82'	07°18'02.12" Left
	PI	503+64.36	1374595.51	3179961.91				
	PC	504+05.71	1374554.05	3179962.08				

NORTH CHANNEL EDGE OF PAVEMENT ALIGNMENT

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HC43	POB	600+00.00	1375064.36	3179911.83		600'	64.32'	17°41'56.40" Left
	PI	600+32.19	1375032.17	3179911.20				
	PC	600+64.32	1375000.24	3179907.13				
HC44	PC	600+64.32	1375000.24	3179907.13		200'	61.78'	17°41'56.40" Left
	PI	600+95.46	1374969.35	3179903.19				
	PC	601+26.10	1374938.73	3179908.83				
HC45	PC	601+26.10	1374938.73	3179908.83		77'	21.01'	15°37'55.65" Right
	PI	601+36.67	1374928.33	3179910.74				
	PC	601+47.11	1374917.81	3179909.79				
HC46	PC	601+47.11	1374917.81	3179909.79		5'	9.75'	111°41'17.43" Left
	PI	601+54.48	1374910.47	3179909.12				
	PC	601+56.86	1374912.56	3179916.19				
HC47	PC	601+56.86	1374912.56	3179916.19		65'	32.94'	29°02'01.13" Right
	PI	601+73.69	1374917.34	3179932.32				
	PC	601+89.80	1374913.68	3179948.75				
HC48	PC	601+89.80	1374913.68	3179948.75		5'	9.89'	113°21'40.86" Left
	PI	601+97.40	1374912.03	3179956.18				
	PC	601+99.69	1374919.50	3179954.75				
HC49	PC	601+99.69	1374919.50	3179954.75		78'	33.02'	24°15'20.38" Right
	PI	602+16.45	1374935.96	3179951.60				
	PC	602+32.71	1374952.27	3179955.50				
HC50	PC	602+32.71	1374952.27	3179955.50		200'	66.17'	18°57'25.89" Left
	PI	602+66.10	1374984.74	3179963.26				
	PC	602+98.88	1375017.98	3179960.05				
HC51	PC	602+98.88	1375017.98	3179960.05		600'	49.92'	04°46'00.26" Right
	PI	603+23.86	1375042.84	3179957.65				
	PC	603+48.80	1375067.81	3179957.32				
HT52	PC	603+48.80	1375067.81	3179957.32	N00°45'06.42"W		12.27'	
	POE	603+61.07	1375080.08	3179957.16				

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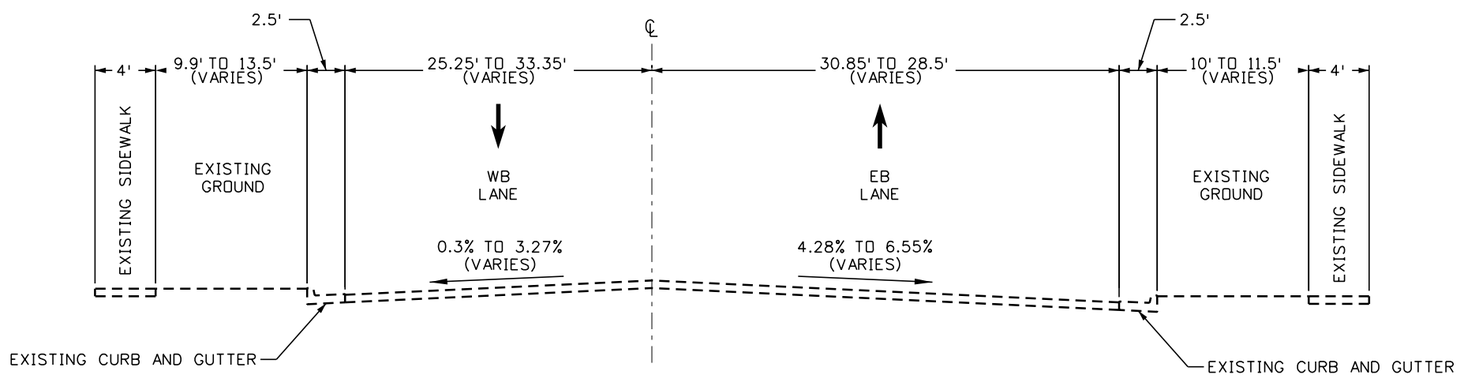
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31ST ST & FONTANERO ST
GEOMETRIC LAYOUT TABLES
EDGE OF PAVEMENT

Designer: JDM
Detailer: BKM
Sheet Subset: GEOM
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 8 of 8

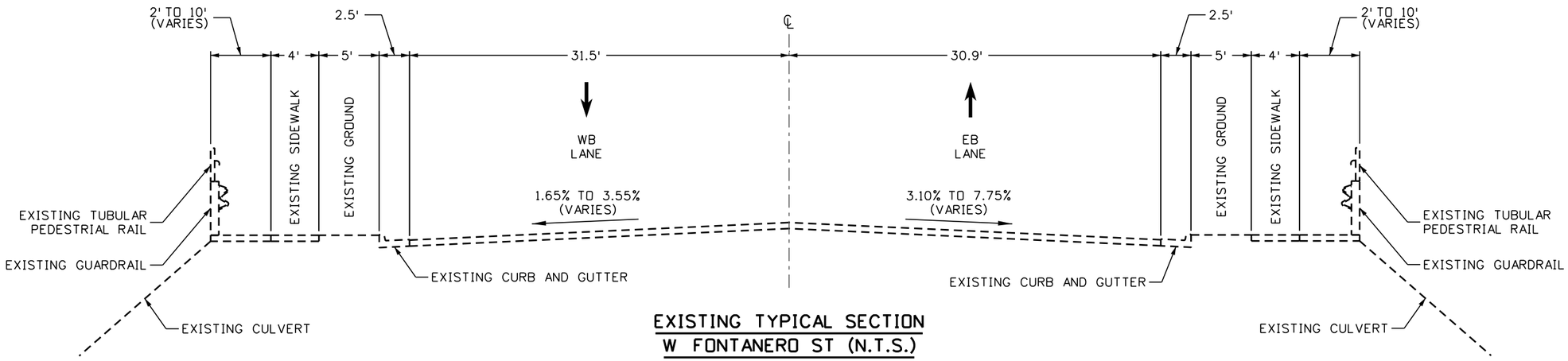
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W FONTANERO ST (N.T.S.)

STA. 14+15.43 TO STA. 17+14.77
STA. 18+31.04 TO STA. 20+99.44



EXISTING TYPICAL SECTION
W FONTANERO ST (N.T.S.)

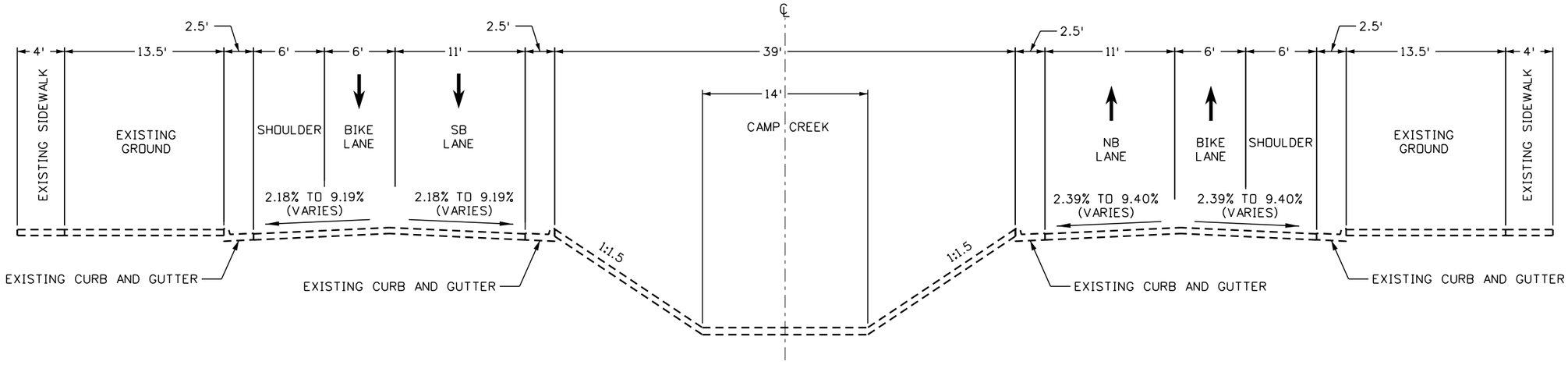
STA. 17+50.11 TO STA. 17+95.07

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Print Date: 1/16/2026		Sheet Revisions			WILSON & COMPANY 5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108		31ST ST & FONTANERO ST TYPICAL SECTIONS	Project No./Code
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Horiz. Scale: 1:10	Vert. Scale:					Revised:	Designer: JDM / Detailer: BKM / Sheet Subset: TYPSEC	Structure Numbers: CSG-E.00-10.57A
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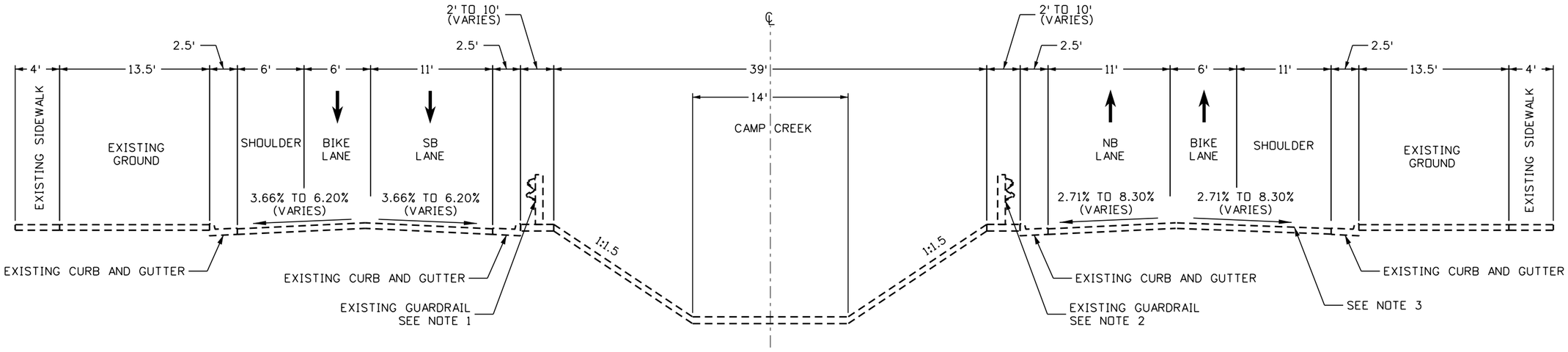
COLORADO SPRINGS OLYMPIC CITY USA

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EXISTING TYPICAL SECTION
N 31st STREET (N.T.S.)

STA. 32+60.75 TO STA. 34+63.48
STA. 36+46.13 TO STA. 37+71.42



NOTES:
1. START OF GUARDRAIL AT STA. 34+80.19
2. END OF GUARDRAIL AT STA. 36+34.31
3. TURNING LANE STA. 34+24.82 TO 35+02.57

EXISTING TYPICAL SECTION
N 31st STREET (N.T.S.)

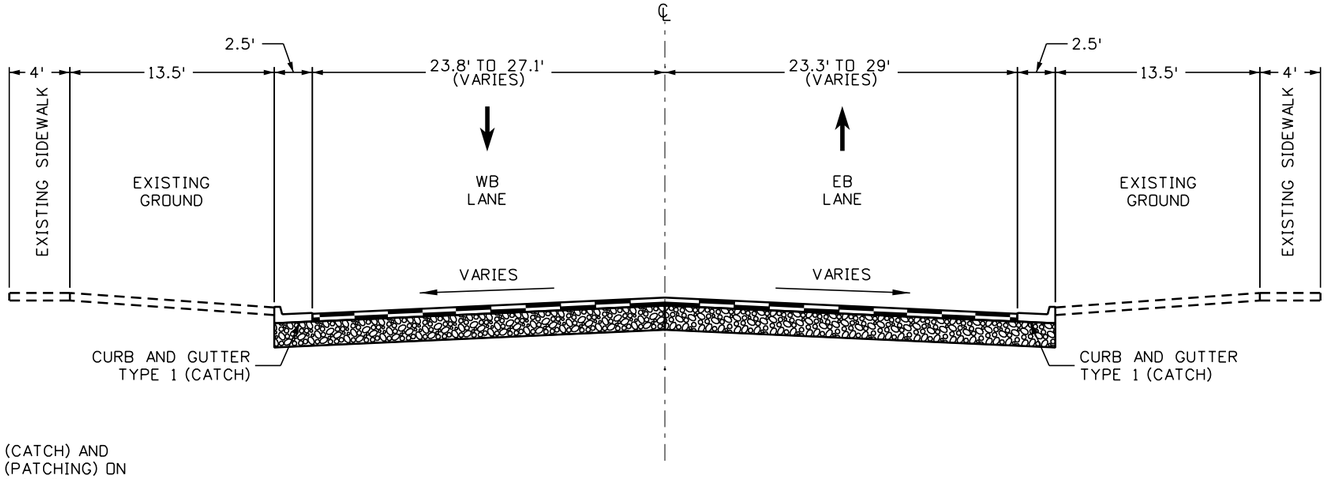
STA. 34+63.48 TO STA. 35+07.45
STA. 36+00.77 TO STA. 36+45.99

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File Name: 23916GN_06-02_TypSec.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:
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Unit Information	Unit Leader						Void:
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31ST ST & FONTANERO ST TYPICAL SECTIONS				Project No./Code
				Project #STU-M240-203
Designer: JDM	Structure Numbers	CSG-E.00-10.57A		Bid #__-__
Detailer: BKM				
Sheet Subset: TYPSEC	Subset Sheets: 2 of 6			Sheet Number

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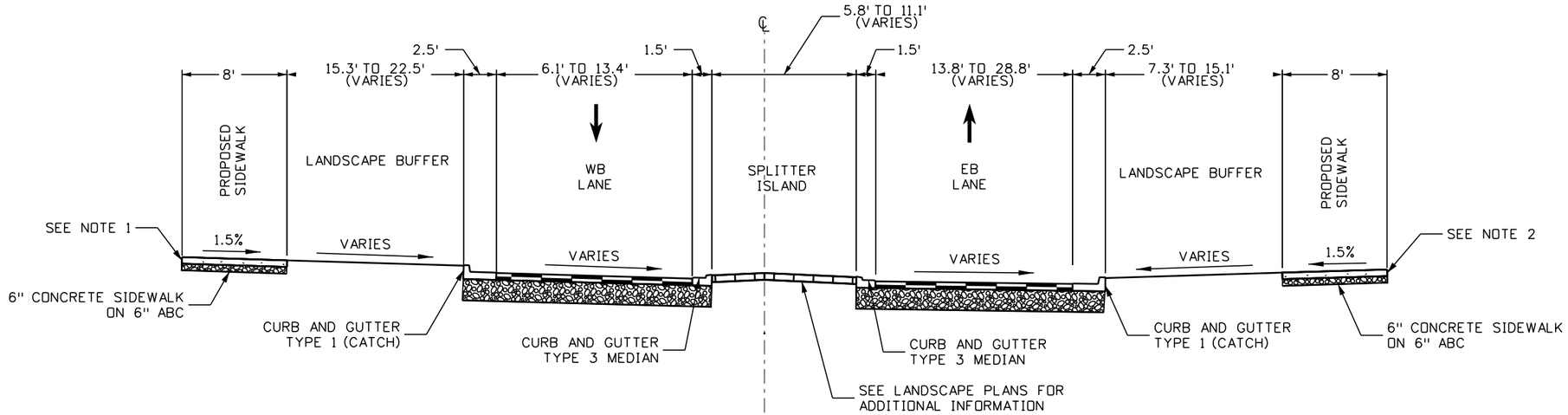
NOTES:

1. CURB AND GUTTER TYPE 1 (CATCH) AND ASPHALT PAVING MATERIAL (PATCHING) ON THE WB SIDE STARTS AT STA. 15+68.53

2. ASPHALT PAVING MATERIAL (PATCHING) ENDS AT STA. 16+00.68

PROPOSED TYPICAL SECTION
W FONTANERO ST N.T.S.

STA. 16+01.02 TO STA. 16+59.66



NOTES:

1. SIDEWALK BEGINS AT STA. 16+67.21

2. SIDEWALK BEGINS AT STA. 16+74.35

PROPOSED TYPICAL SECTION
W FONTANERO ST N.T.S.

STA. 16+59.66 TO STA. 17+9.70

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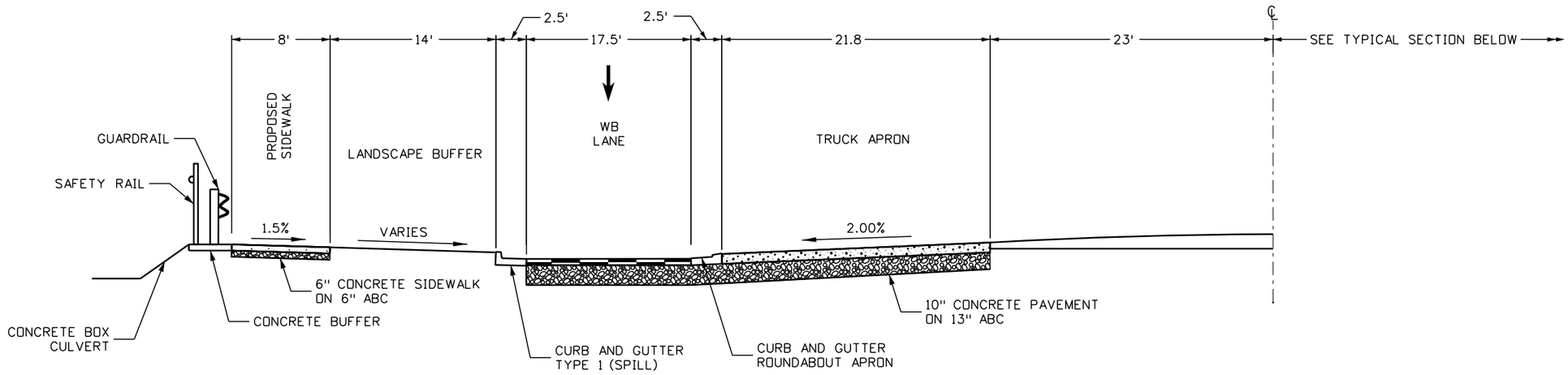
No Revisions:
Revised:
Void:

31ST ST & FONTANERO ST
TYPICAL SECTIONS

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	TYPSEC	Subset Sheets: 3 of 6	

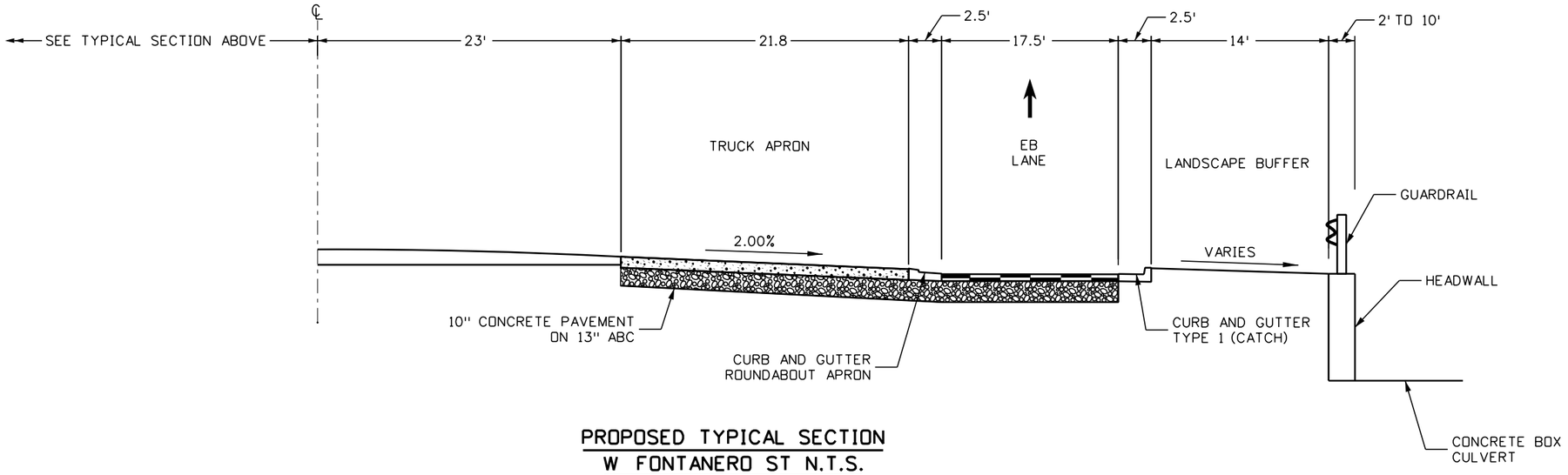
Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

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PROPOSED TYPICAL SECTION
W FONTANERO ST N.T.S.

STA. 17+27.20 TO STA. 18+22.20



PROPOSED TYPICAL SECTION
W FONTANERO ST N.T.S.

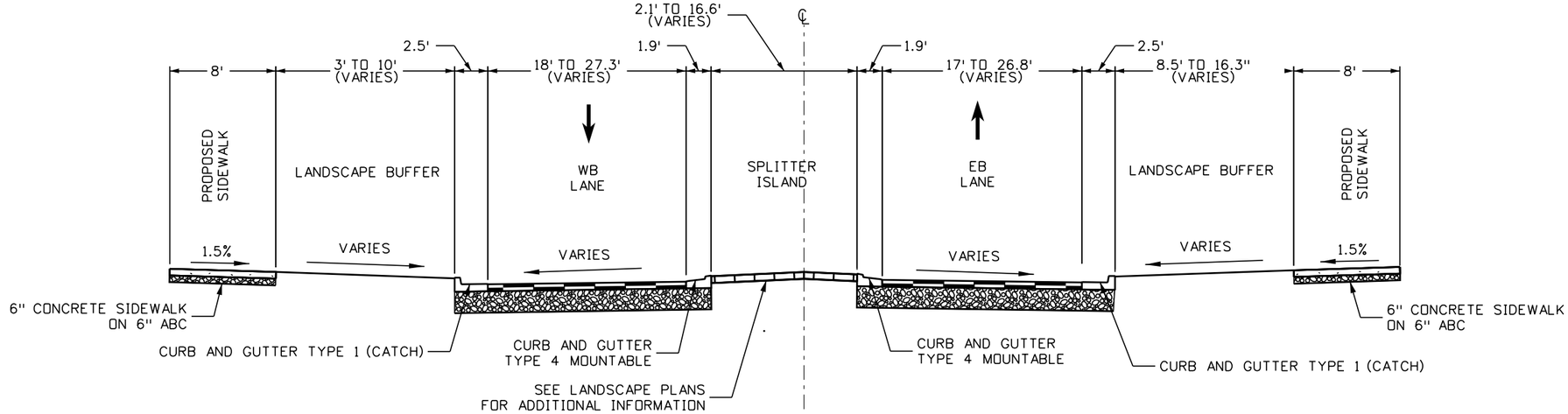
STA. 17+27.20 TO STA. 18+22.20

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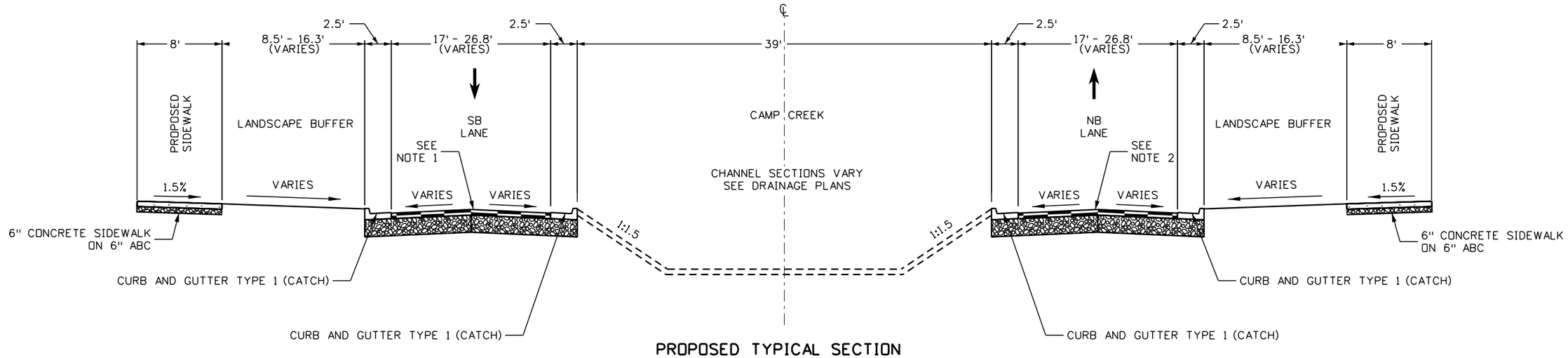
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Designer: JDM	Structure Numbers	CSG-E.00-10.57A		Project #STU-M240-203
Detailer: BKM				Bid #__-__
Sheet Subset: TYPSEC	Subset Sheets: 4 of 6			Sheet Number

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PROPOSED TYPICAL SECTION
W FONTANERO ST N.T.S.

STA. 18+33.28 TO STA. 20+82.29



PROPOSED TYPICAL SECTION
N 31st ST N.T.S.

STA. 32+60.75 TO STA. 34+90.22
STA. 36+46.96 TO STA. 38+17.31

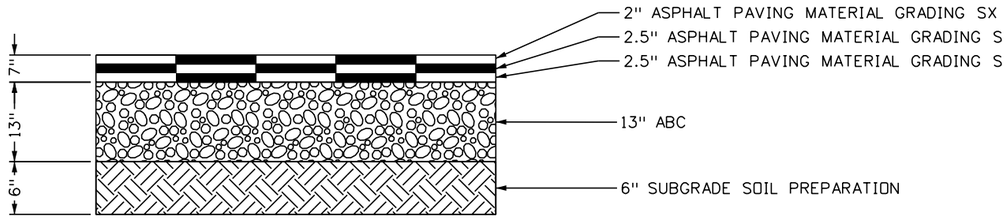
NOTES:
1. PROPOSED PAVEMENT AND CURB AND GUTTER BEGINS AT STA. 33+69.83
2. PROPOSED PAVEMENT AND CURB AND GUTTER ENDS AT STA. 38+14.61

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Horiz. Scale: 1:10 Vert. Scale:				COLORADO SPRINGS OLYMPIC CITY USA	Revised:
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31ST ST & FONTANERO ST TYPICAL SECTIONS			Project No./Code
			Project #STU-M240-203
Designer: JDM	Structure Numbers	CSG-E.00-10.57A	Bid #__-__
Detailer: BKM			
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HMA PAVEMENT SECTION

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31ST ST & FONTANERO ST
TYPICAL SECTIONS

Designer: JDM
Detailer: BKM
Sheet Subset: TYPSEC
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 6 of 6

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

GENERAL NOTES

The minimum limits of structure backfill are shown on Drainage Plan Sheets 8, 9, and 10. The payment quantity for structure backfill is based on the minimum limits shown in the Drainage Plans.

Expansion joint material shall meet AASHTO Specification M213.

The following structural steel shall be:

Safety Railing	ASTM A53 Grade B 35 ksi
Anchor Plates	M270 Grade 36 (ASTM A36)

Grade 60 reinforcing steel is required.

All reinforcing steel shall be epoxy coated.

The Contractor shall be responsible for the stability of the structure during construction.

Stations, Elevations, and Dimensions contained in these plans are calculated from a recent field survey. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.

All longitudinal and transverse dimensions are measured horizontally and include no correction for grade.

The information shown on these plans concerning the type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making their own determination as to the type and location of underground utilities as may be necessary to avoid damage thereto. The Contractor shall contact the Utility Notification Center of Colorado at 811 (1-800-922-1987) at least 3 days (2 days not including the day of notification) prior to any excavation or other earthwork.

Clayey soils and bedrock materials at this site have a Class 2 exposure of sulfate attack on concrete per CDOT Standard Specifications for Roadway and Bridge Construction, 2025, Section 601.04.

Number 57 Stone shall be placed under the Wingwalls, the Concrete Box Culvert and "U" Type walls to a depth of 1'-0" below the bottom slabs of these structures. Sound shale bedrock may be encountered, and if so, the thickness of No. 57 stone in these areas may be reduced to a minimum of 9". If Rock excavation is necessary to place the minimum of 9", it shall be included in the work and shall not be paid for separately. The surface of the exposed bedrock shall be cleaned of loose material before placing the layer of No. 57 stone.

The Contractor shall place a stamp with the year built in the formwork of the concrete headwall of the box culvert prior to placement of the concrete at the headwall. Contractor shall coordinate with the City Engineer for the wording, letter size, and exact location.

DESIGN DATA

AASHTO, 9th Edition LRFD with current interims

Design Method: Load and Resistance Factor Design

Live Load: HL-93 (design truck or tandem, and design lane load)

Reinforced Concrete:

Class D Concrete:	f'c	=	4,500 psi
Reinforcing Steel:	fy	=	60,000 psi

Structural Steel:

AASHTO M270 (ASTM A709) Grade 36	fy	=	36,000 psi
ASTM A53 Grade B	fy	=	35,000 psi

See Drainage Plan and Profile drawing for additional details of the CBC and walls.

INDEX OF DRAWINGS

B1 GENERAL INFORMATION
B2 TABULATION OF STRUCTURAL ITEMS
B3 ENGINEERING GEOLOGY BORING LOCATIONS
B4 ENGINEERING GEOLOGY BORING LOGS
B5 CBC AND WINGWALL LAYOUT
B6 HEADWALL DETAILS
B7 "U" TYPE WALL LAYOUT
B8 CBC DETAILS
B9 "U" WALL DETAILS
B10 WINGWALL DETAILS
B11 LARGE PIPE WALL PENETRATIONS
B12 MISCELLANEOUS DETAILS
B13 WALL DRAINAGE DETAILS
B14 SAFETY RAIL DETAILS

BRIDGE DESCRIPTION

C.I.P. Concrete Box Culvert (CBC) with C.I.P. Concrete wingwalls.

ABBREVIATIONS

(Per M-100-2 or as shown below)

Ea	= Each
BF	= Back Face
FF	= Front Face
FFBW	= Front Face Backwall
RC	= Reinforced Concrete
WSEL	= Water Surface Elevation

Know what's **below.**
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View/Photo Identification

Section, Detail, or View Identification

XX
BXX

Cross Reference Drawing Number
(if blank or dash, reference is to same sheet)

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FAX: 719-520-0108

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Void:

31ST ST & FONTANERO ST
GENERAL INFORMATION

Designer: R BORDEN
Detailer: C. FISHER
Sheet Subset: BRG
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 81 of 814

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

NOTES:

① See Drainage Plans for additional No. 57 Stone Aggregate Quantities.

	Item No.	Description	Unit	Total	As Built
	202-00100	Structure Excavation	CY	3776	
	203-00100	Structure Backfill (Class 1)	CY	1091	
①	500-02005	No. 57 Stone Aggregate (Complete in Place)	CY	653	
	540-00204	Safety Railing	LF	347	
	550-00120	Waterproofing Membrane	SY	625	
	600-00020	Reinforcing Steel (Epoxy Coated)	LB	224928	
	600-03030	Concrete Class D (Box Culvert)	CY	526	
	600-03050	Concrete Class D (Wall)	CY	353	
	605-00060	6-Inch Perforated Underdrain Pipe	LF	585	

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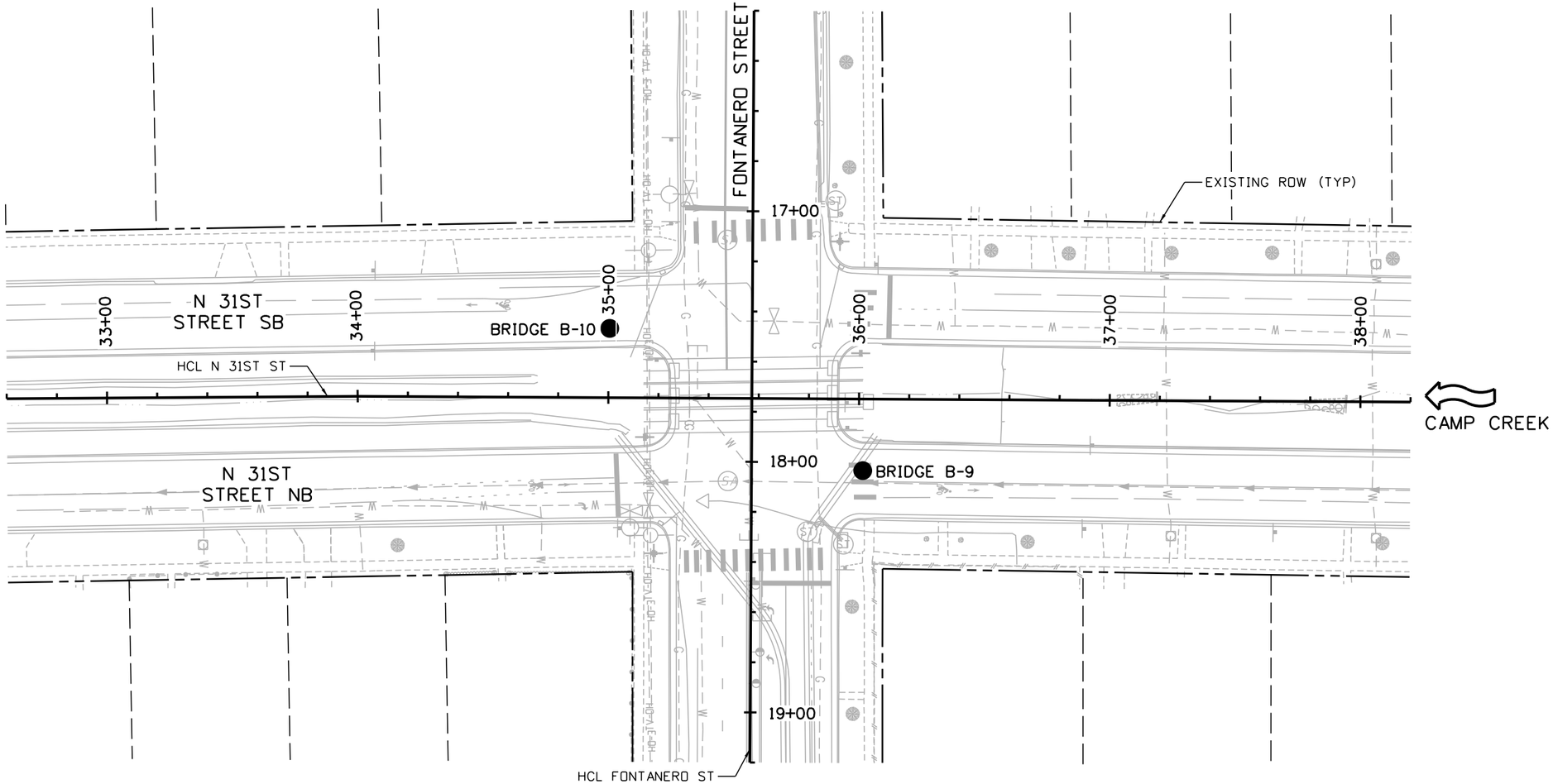
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31ST ST & FONTANERO ST
TABULATION OF STRUCTURAL ITEMS

Designer: R. BORDEN
Detailer: C. FISHER
Sheet Subset: BRG
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: B2 of B14

Project No./Code
Project #STU-M240-203
Bid #__-__
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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

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File Name: B03_23916STR_05-01-Boring.dgn		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:		Project #STU-M240-203
Horiz. Scale: 1:50 Vert. Scale:						Revised:	Designer: R. BORDEN Structure Numbers CSG-E.00-10.57A	Bid #__-__
Unit Information Unit Leader							Detailer: T. HAUGH	
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Vivid Engineering Group, Inc.
1053 Elkton Drive
Colorado Springs, CO 80907
Telephone: 719-896-4356
Fax: 719-896-4357

BORING NUMBER B-9

PAGE 1 OF 1

CLIENT Wilson & Company
PROJECT NUMBER D17-2-066
DATE STARTED 10/24/17 **COMPLETED** 10/24/17
DRILLING CONTRACTOR GDI Drilling (Diedrich D-90)
DRILLING METHOD 4" SSA
LOGGED BY SN **CHECKED BY** WJB
NOTES

PROJECT NAME 31st Street Improvements
PROJECT LOCATION 31st Street, Colorado Springs, CO
GROUND ELEVATION **HOLE SIZE** 4 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	TESTS	GRAPHIC LOG	MATERIAL DESCRIPTION
0					0.4 **Asphalt - 5-inches**
			MC = 3.8% LL = NP PL = NP Fines = 18.8%		Silty SAND, some gravel, brown, slightly moist, medium dense
5	SPT	8-13 (21)	MC = 5.0% LL = NP PL = NP Fines = 13.1%		5.0 Poorly Graded SAND with gravel, brown, wet, loose
10	SPT	7-4 (11)			
					13.0 **Pierre Shale Formation** SHALE, dark gray, wet, hard to very hard
15	MC	50			
20	SPT	50/5"			
	SPT	50/3"			24.3 Bottom of borehole at 24.3 feet.

Vivid Engineering Group, Inc.
1053 Elkton Drive
Colorado Springs, CO 80907
Telephone: 719-896-4356
Fax: 719-896-4357

BORING NUMBER B-10

PAGE 1 OF 1

CLIENT Wilson & Company
PROJECT NUMBER D17-2-066
DATE STARTED 10/18/17 **COMPLETED** 10/18/17
DRILLING CONTRACTOR GDI Drilling (Diedrich D-90)
DRILLING METHOD 4" SSA
LOGGED BY BTM **CHECKED BY** WJB
NOTES

PROJECT NAME 31st Street Improvements
PROJECT LOCATION 31st Street, Colorado Springs, CO
GROUND ELEVATION **HOLE SIZE** 4 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING 7.50 ft Ground water
AT END OF DRILLING ---
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	TESTS	GRAPHIC LOG	MATERIAL DESCRIPTION
0					0.4 **Asphalt - 5-inches**
	SPT	8-4 (12)	Sulfate=.004% MC = 3.8% LL = NP PL = NP Fines = 12.1%		Silty SAND to Poorly Graded SAND with silt and gravel, red/brown, moist, medium dense to loose
5	SPT	5-3 (8)			
10	SPT	9-6 (15)			9.5 10.0 CLAY, sandy, blue/gray to brown, moist, firm **Pierre Shale Formation** SHALE, dark gray, moist, hard to very hard
15	SPT	50			
20	SPT	50/5"			
	SPT	50/2"			24.2 Bottom of borehole at 24.2 feet.

GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 12/4/17 11:00 - S:\VIVID PROJECTS\D17-2-066_WILSON 31ST STREET IMPROVEMENTS GEO\6 - DRAFTING\D17-2-066_12-4-17.GPJ

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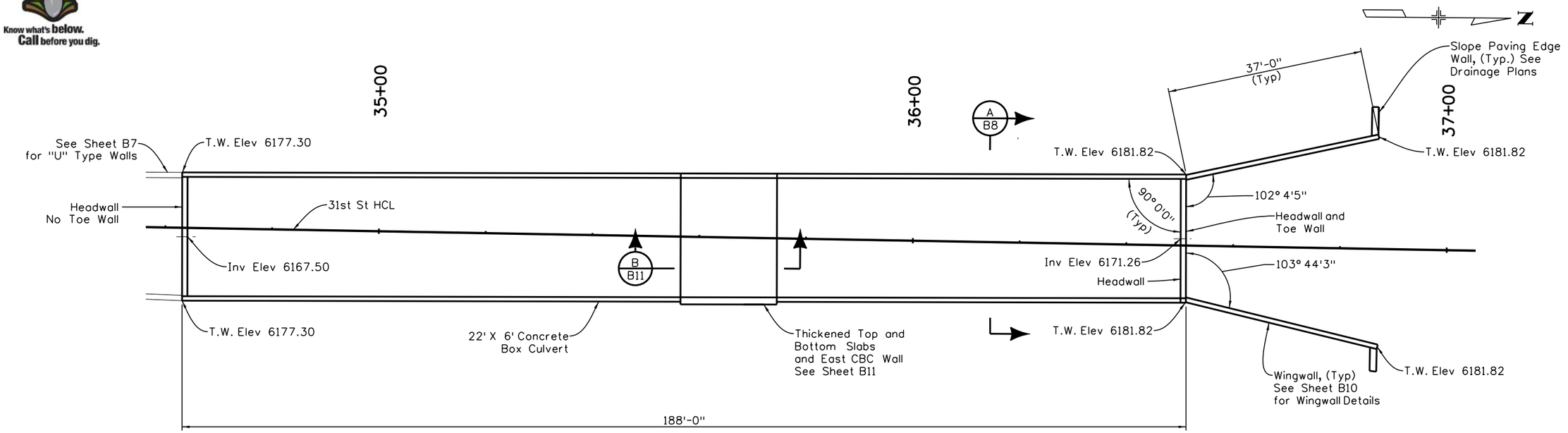
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31ST ST & FONTANERO ST
ENGINEERING GEOLOGY
BORING LOGS

Designer: R. BORDEN
Detailer: T. HAUGH
Sheet Subset: BRG
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: B4 of B14

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Project #STU-M240-203
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CBC AND WINGWALL - PLAN

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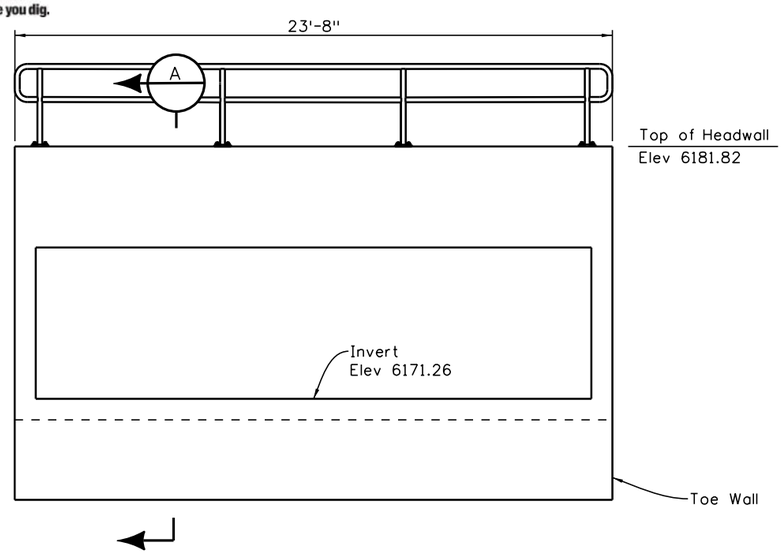
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31ST ST & FONTANERO ST
CBC AND WINGWALL LAYOUT

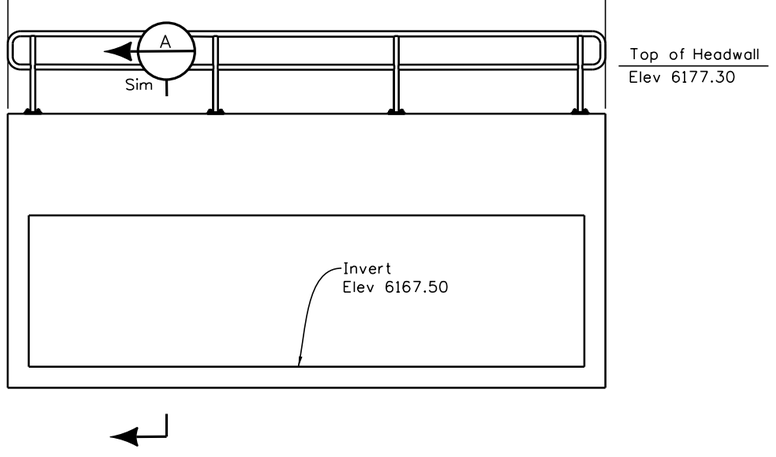
Designer: R. BORDEN
Detailer: C. FISHER
Sheet Subset: BRG
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: B5 of B14

Project No./Code
Project #STU-M240-203
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Sheet Number

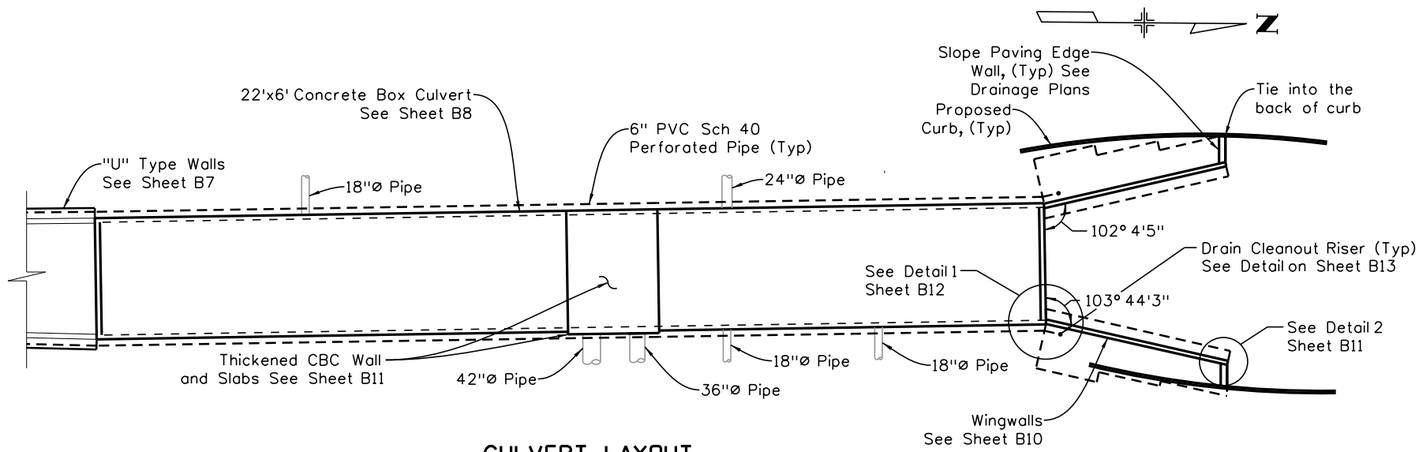
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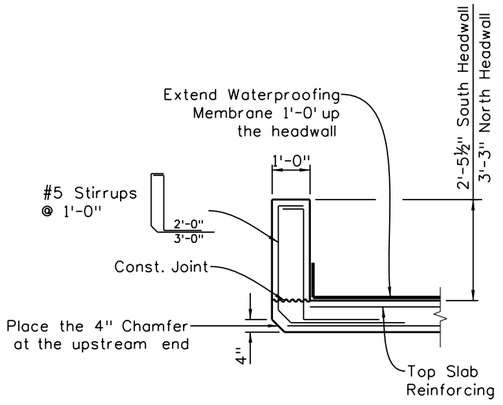
NORTH HEADWALL ELEVATION



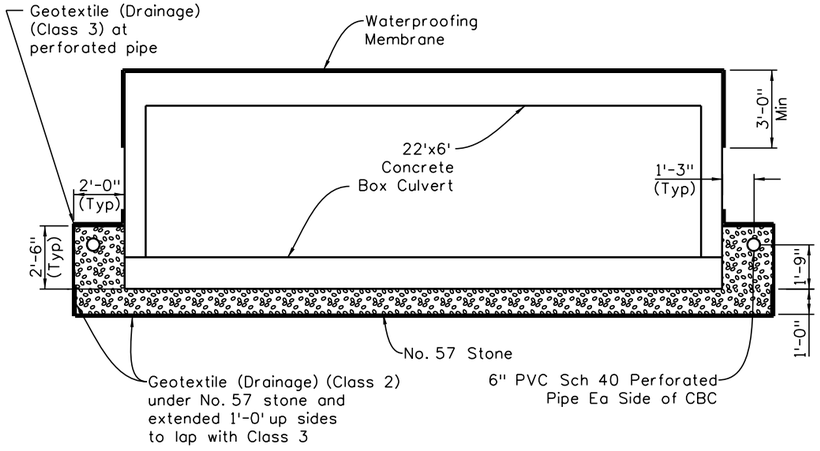
SOUTH HEADWALL ELEVATION



CULVERT LAYOUT



SECTION A



BOX CULVERT SECTION

NOTES:

1. Concrete shall be Class D (Box Culvert).
2. See Drainage Plans for stations and inverts of pipes penetrating the CBC walls.
3. Extend Geotextile (Drainage) (Class 2) 1'-0" up CBC walls.

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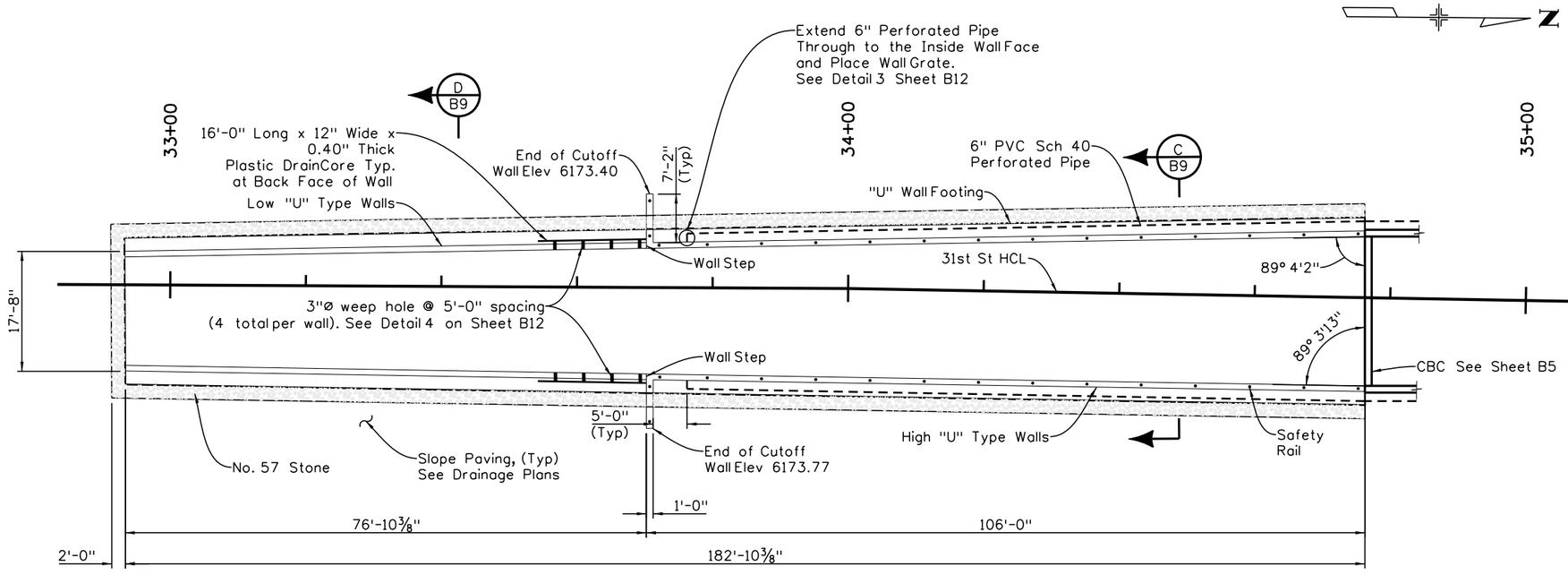
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31ST ST & FONTANERO ST
HEADWALL DETAILS

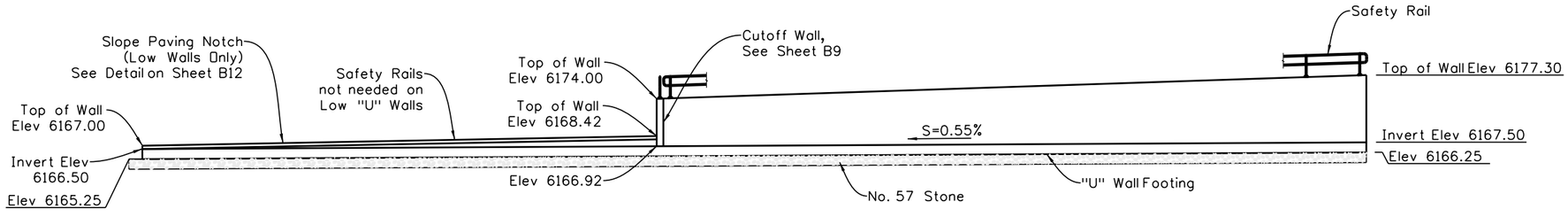
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Detailer: C. FISHER
Sheet Subset: BRG
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: B6 of B14

Project No./Code
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Sheet Number

Know what's below. Call before you dig.



"U" TYPE WALL - PLAN



"U" TYPE WALL - ELEVATION

(East Wall Shown, West Wall Similar)
Perforated Pipe and No. 57 stone above footing not Shown for clarity

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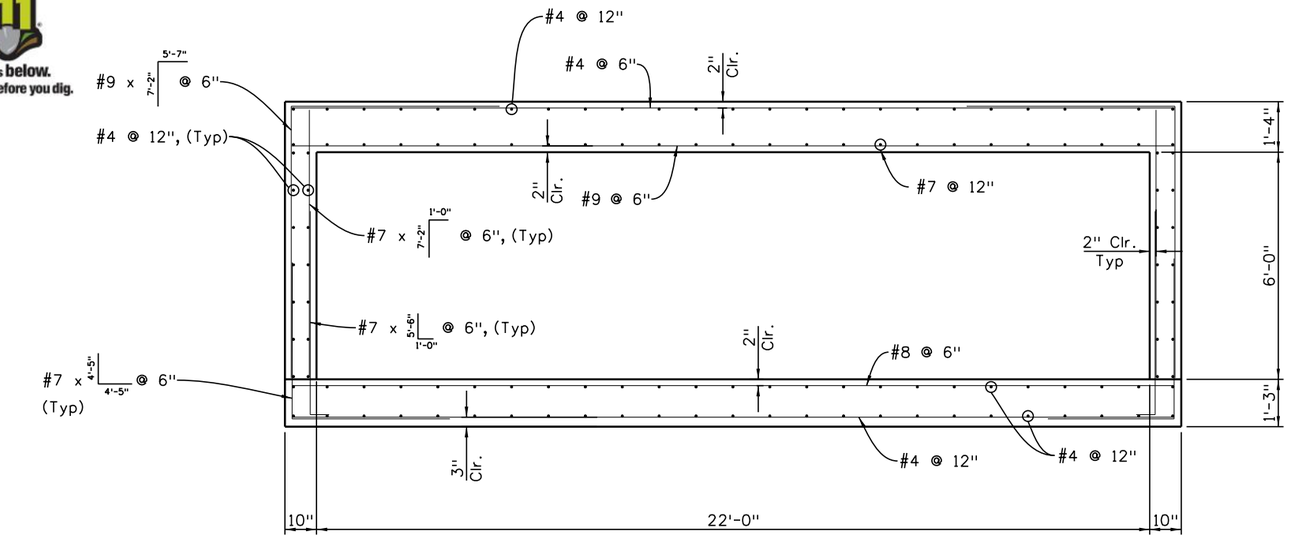
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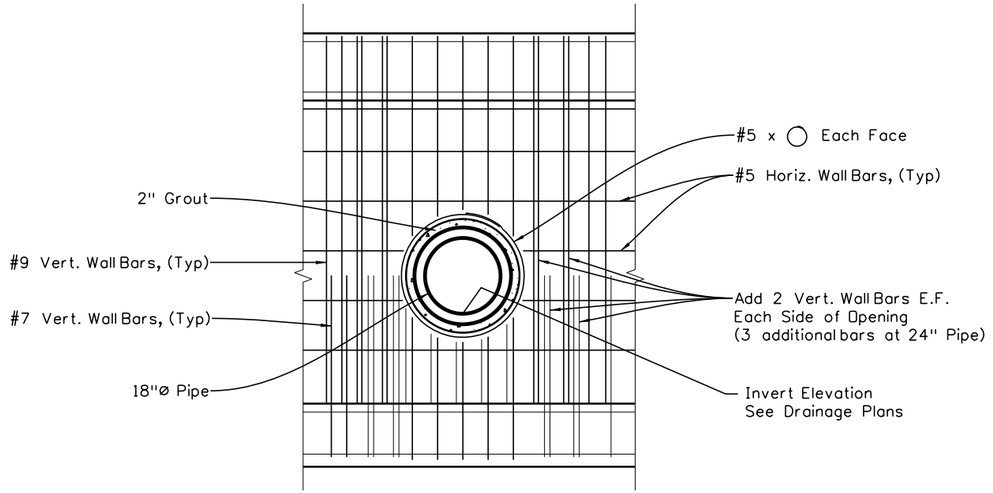
31ST ST & FONTANERO ST
"U" TYPE WALL LAYOUT

Designer: R. BORDEN
Detailer: C. FISHER
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Structure Numbers: CSG-E.00-10.57A
Subset Sheets: B7 of B14

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number



SECTION A / B5
22' X 6' CBC



18" RCP WALL PENETRATION DETAIL

Cut wall bars as needed to maintain 2" clearance to the wall opening
(Similar at the 24" pipe pentration)

NOTES:

1. All top and bottom slab transverse reinforcing bars shall be placed perpendicular to the walls.
2. Concrete shall be Class D (Box Culvert).
3. See Drainage Plans for invert elevations of pipes at wall penetrations.
4. See Sheet B11 for large pipe wall penetrations.

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31ST ST & FONTANERO ST
CBC DETAILS

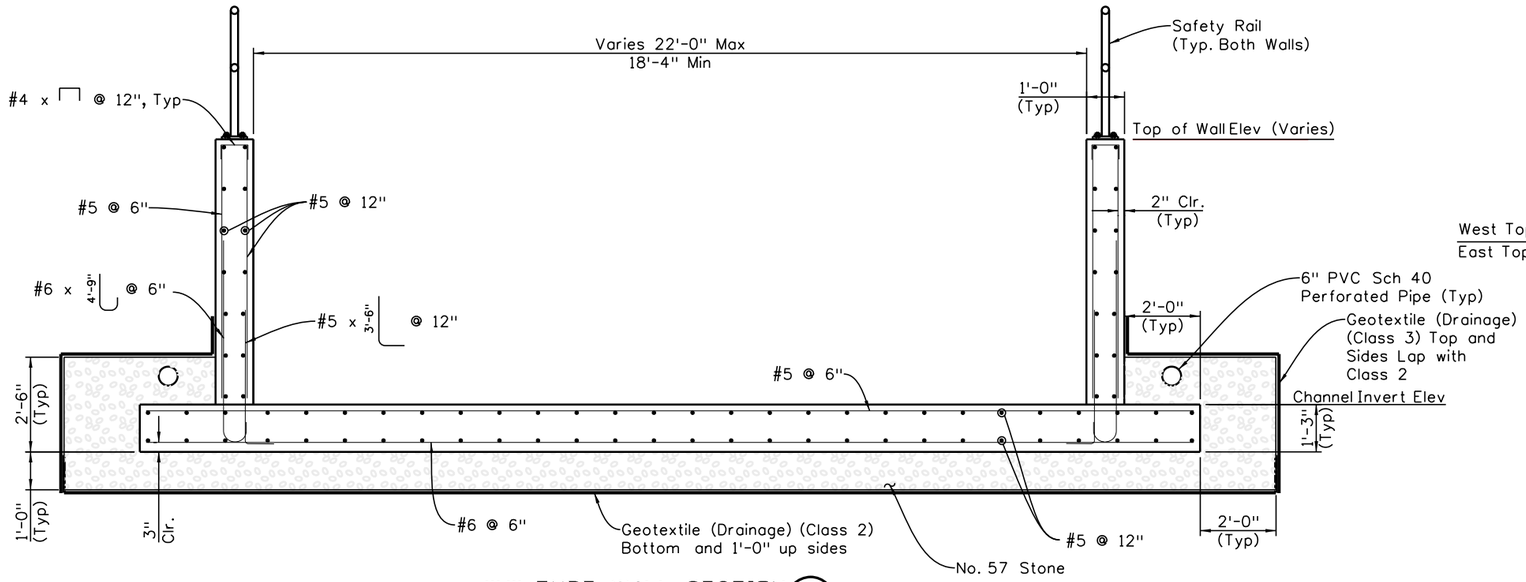
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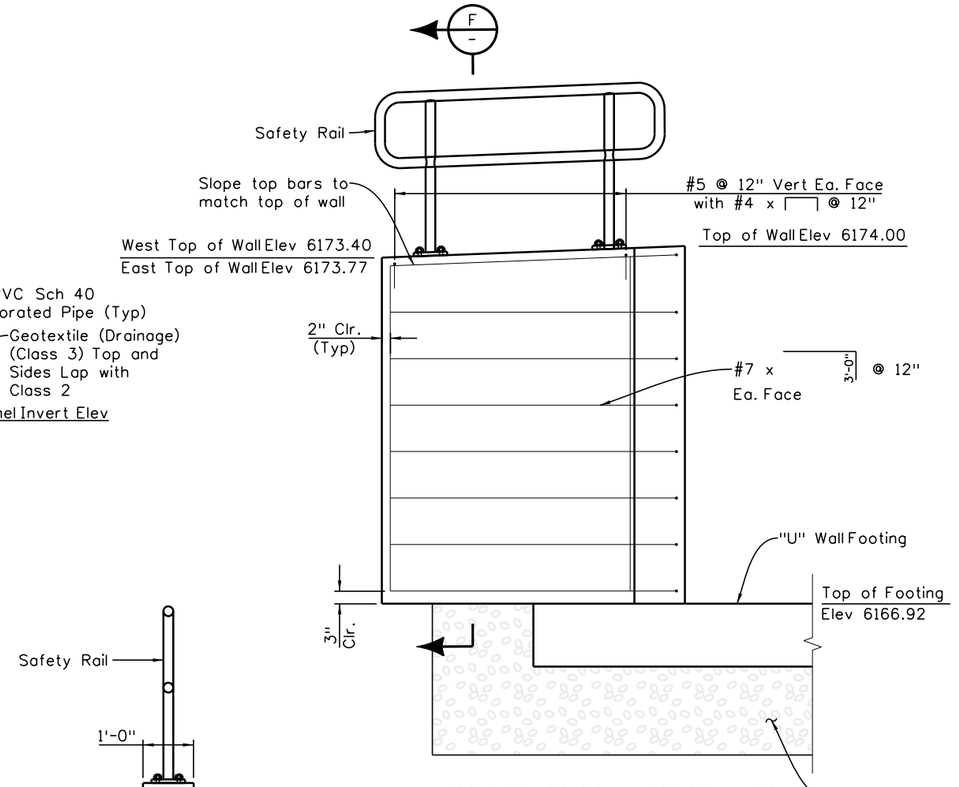
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NOTES

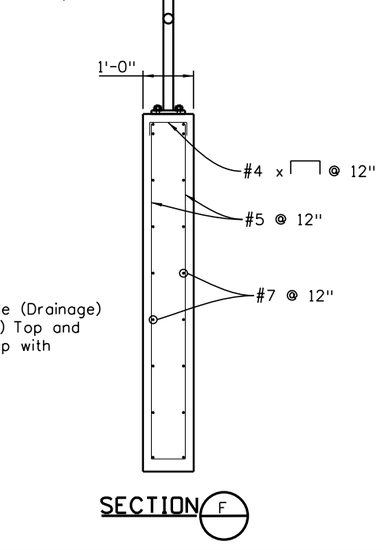
1. All reinforcing steel has 2" clear cover unless otherwise noted.
2. Concrete shall be Class D (Wall).



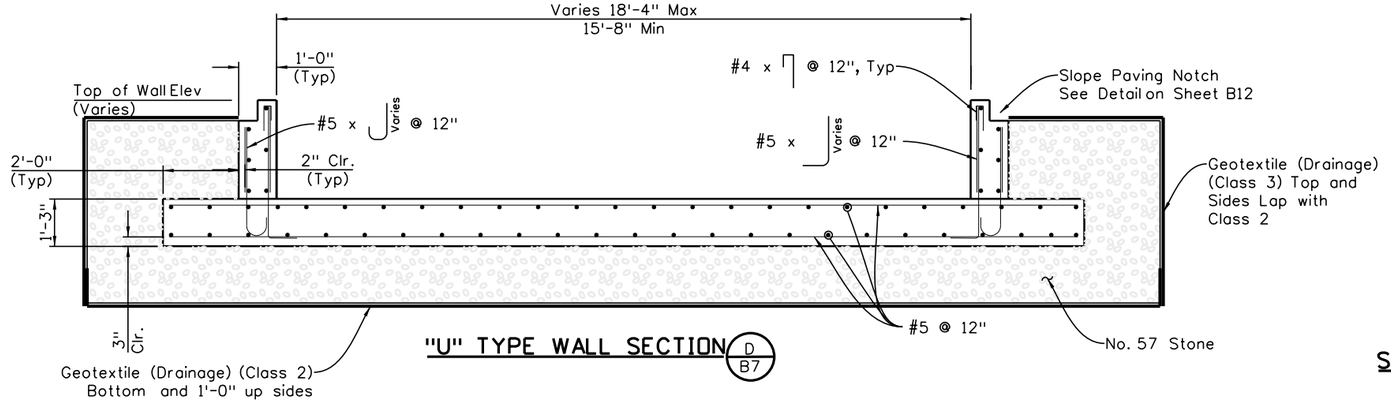
"U" TYPE WALL SECTION C / B7



CUTOFF WALL - ELEVATION
(East Wall Shown, Looking South)
(West Wall Similar, See Sheet B7)



SECTION F



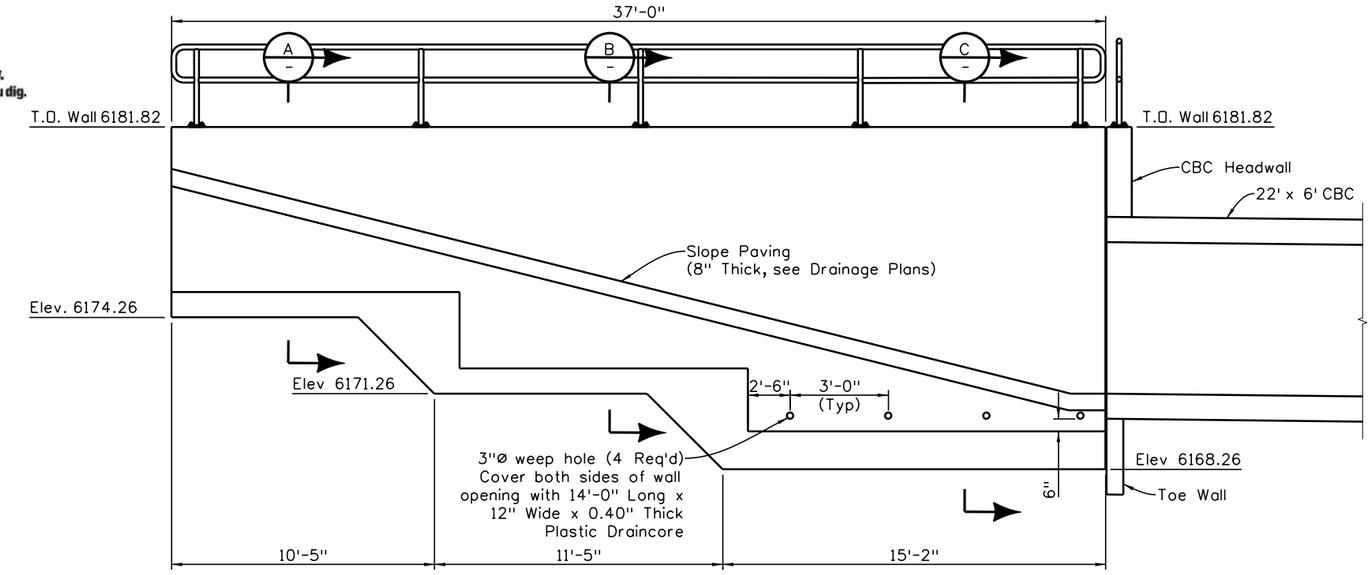
"U" TYPE WALL SECTION D / B7

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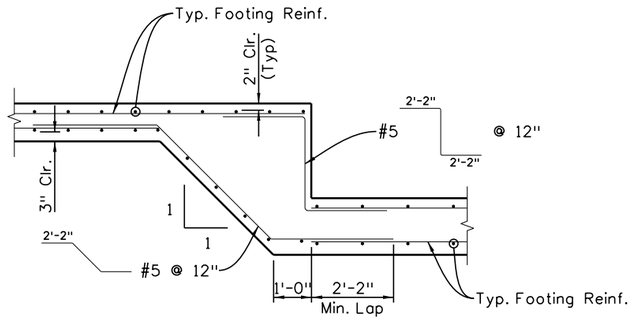


WINGWALL ELEVATION

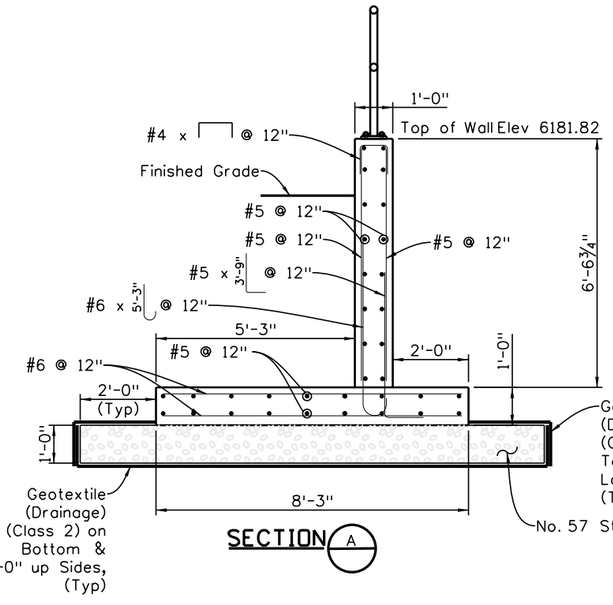
(East Wingwall, Inside Face Shown, West Wingwall Similar)

NOTES

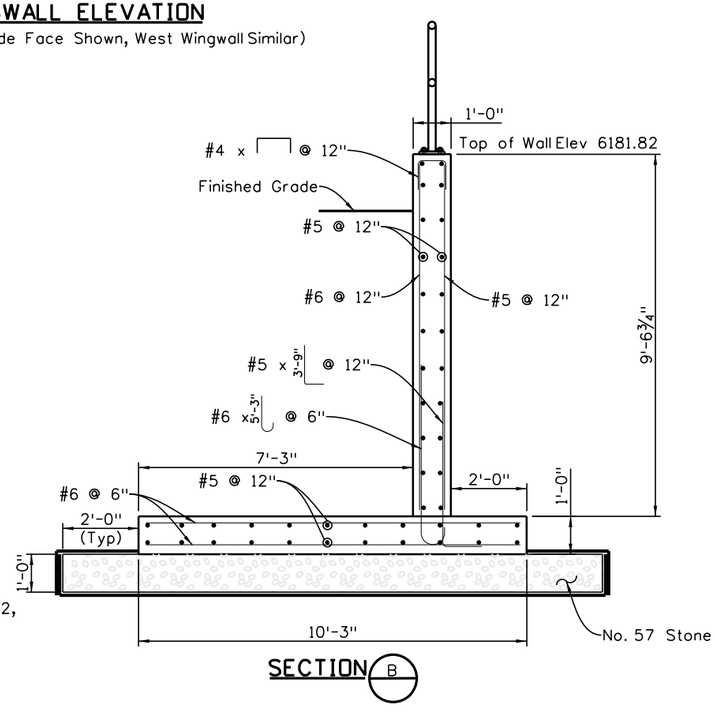
1. All reinforcing steel has 2" clear cover unless otherwise noted.
2. Concrete shall be Class D (Wall).
3. See Sheet B14 for Safety Rail Details.



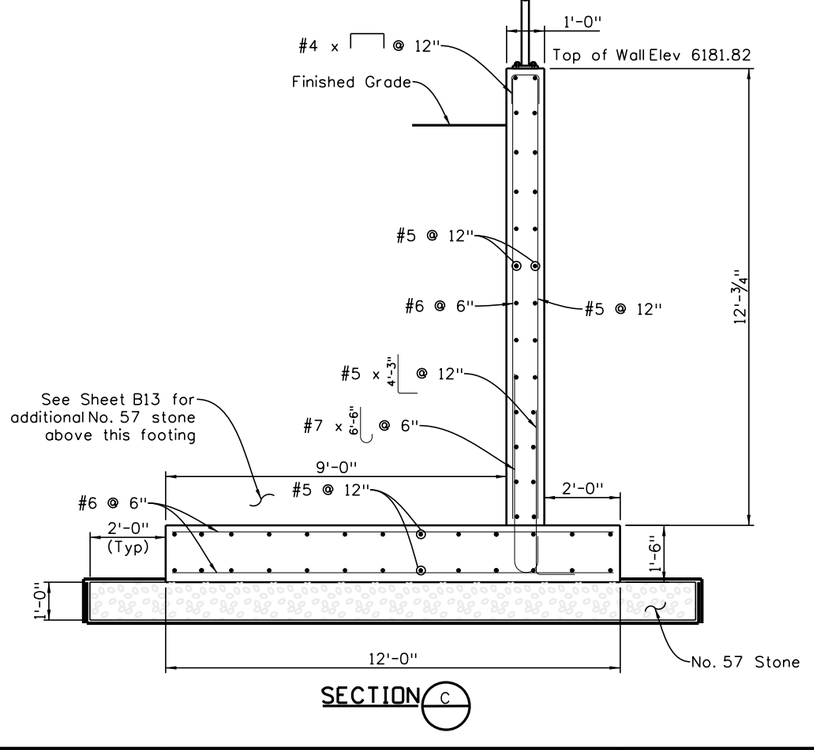
FOOTING STEP DETAIL



SECTION A



SECTION B

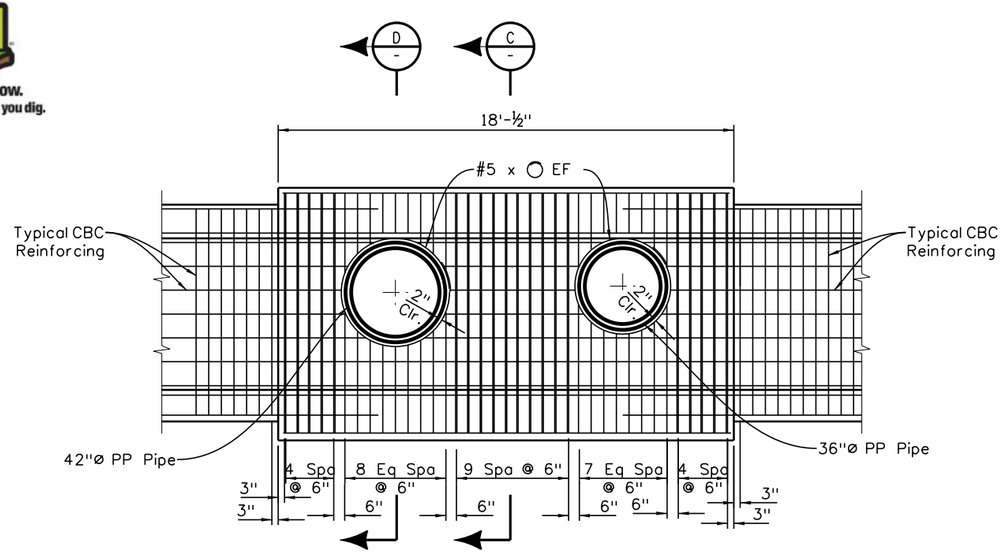


SECTION C

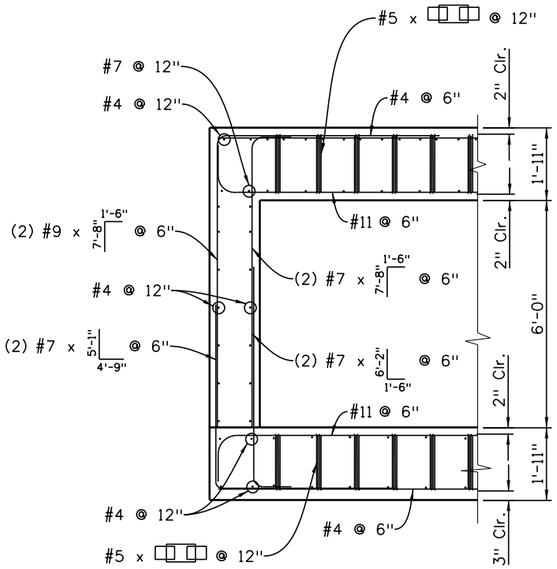
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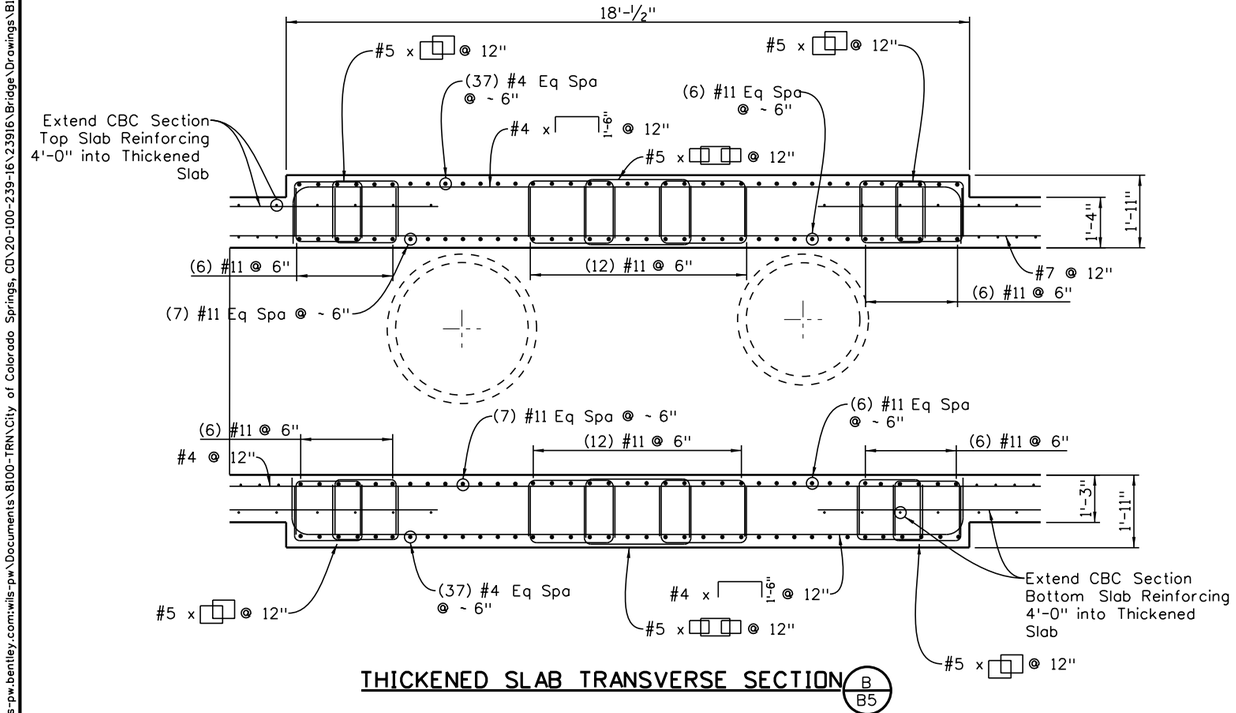


WALL ELEVATION AT LARGE PIPE PENETRATIONS

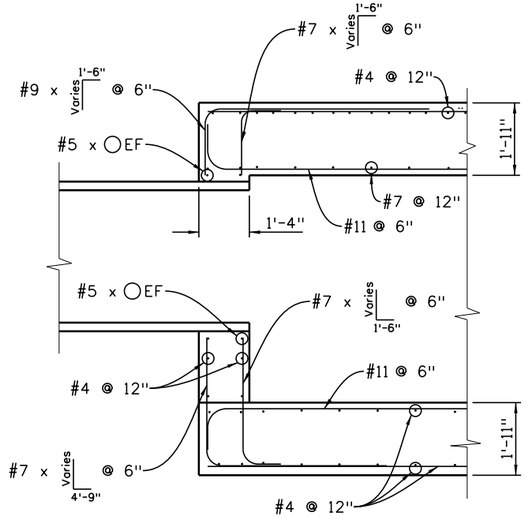


SECTION C

Between pipe openings shown, similar outside of pipes



THICKENED SLAB TRANSVERSE SECTION B / B5



SECTION D

42-inch pipe opening shown, similar at 36-inch pipe

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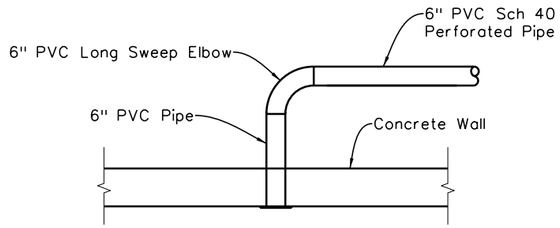
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31ST ST & FONTANERO ST
LARGE PIPE WALL PENETRATIONS

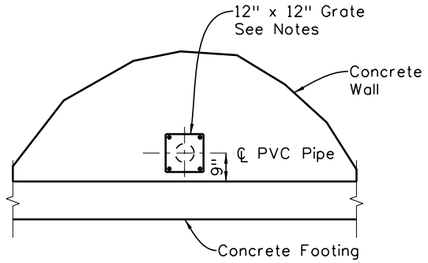
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Detailer:	C. FISHER		
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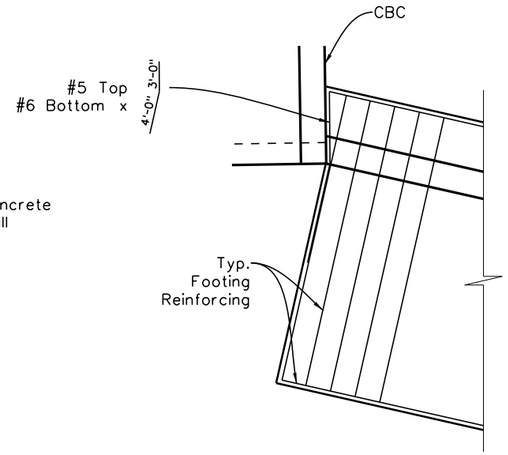


PLAN

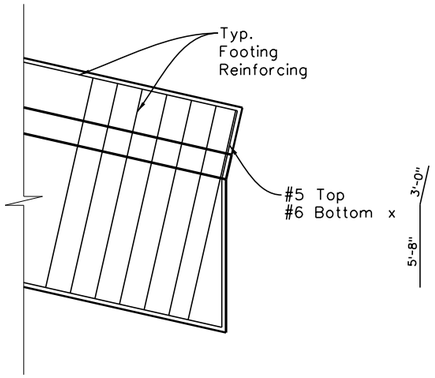


ELEVATION

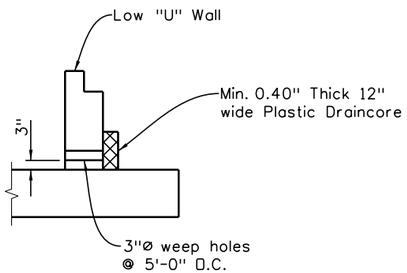
6-INCH PERFORATED PIPE DISCHARGE DETAIL (3/B7)



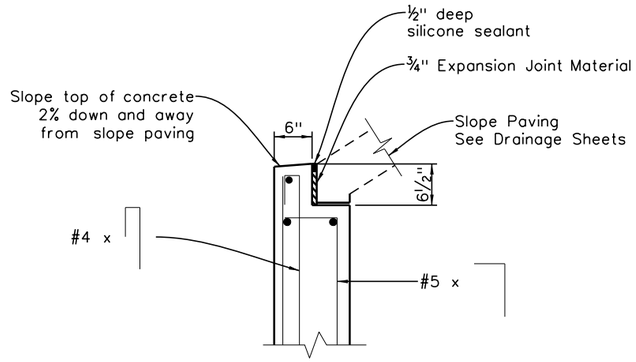
DETAIL 1
East Wall Shown
Similar at West Wall



DETAIL 2
East Wall Shown
Similar at West Wall



3-INCH WEEP HOLE DETAIL IN LOW "U" WALLS (4/B7)



"U" TYPE WALL SLOPE PAVING NOTCH

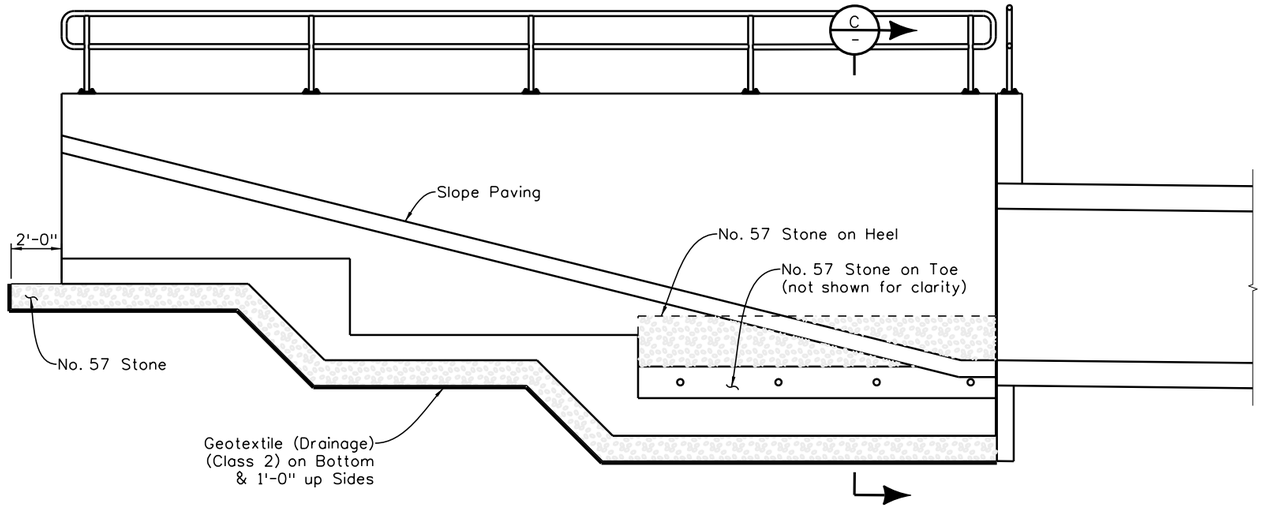
NOTES:

1. Durable grates (12" X 12") polyethylene drain basin grates by NDS Drainage Systems or approved equal shall be mounted to the face of the "U" walls over the ends of the daylighted drain pipes with a minimum of 4-3/16" Stainless Steel anchor bolts. The grates shall provide a minimum of 30 square inches of open area exposed to the flow from the drain pipes.

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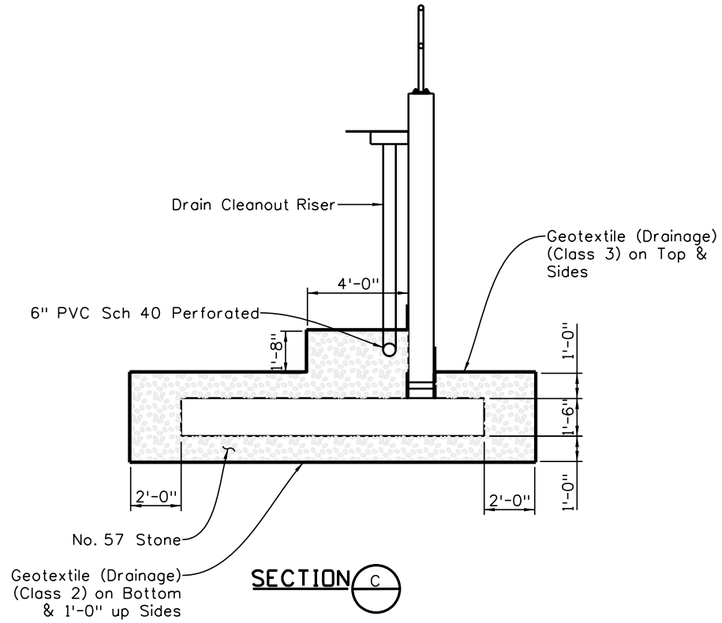
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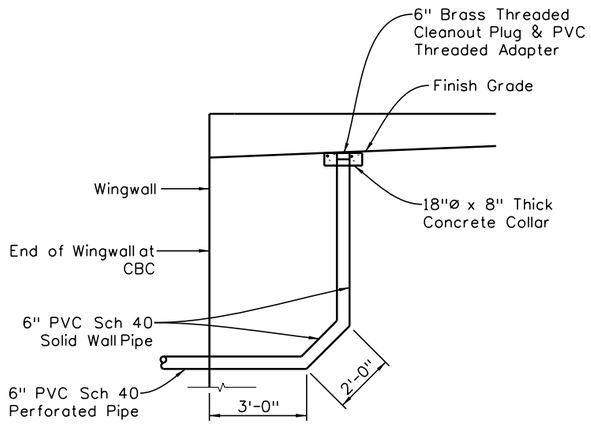


WINGWALL ELEVATION

(East Wingwall, Inside Face Shown, West Wingwall Similar)



SECTION C



DRAIN CLEANOUT RISER

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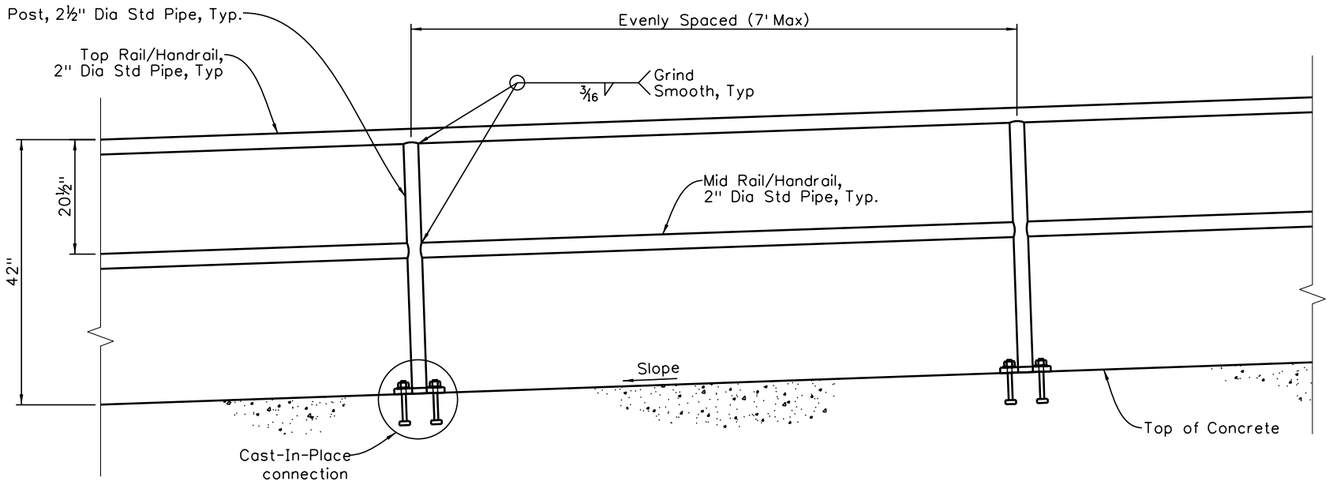
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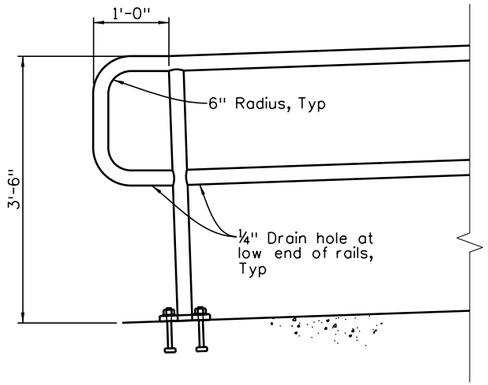
31ST ST & FONTANERO ST
WALL DRAINAGE DETAILS

Designer: R. BORDEN
Detailer: C. FISHER
Sheet Subset: BRG
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: B13 of B14

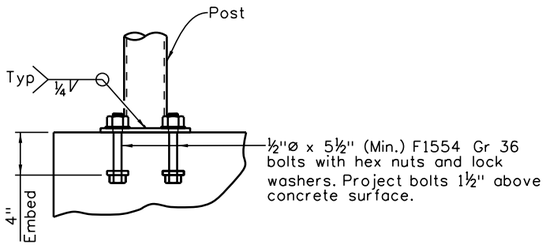
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Project #STU-M240-203
Bid #__-__
Sheet Number



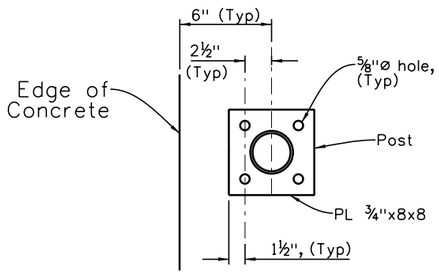
SAFETY RAIL ELEVATION



SAFETY RAIL END DETAIL



ELEVATION



PLAN

CAST-IN-PLACE CONNECTION

NOTES:

1. All posts shall be perpendicular to the top of concrete slope.
2. All railing panels shall be shop fabricated.
3. Pipe tubes shall meet the requirements of ASTM A53 Grade B.
4. Steel plates shall meet the requirements of ASTM A36.
5. Railing shall be shop painted black after fabrication.
6. Safety rail shall be placed on CBC headwalls, wingwalls, and "U" type walls up to the wall step and cutoff walls

Print Date: 11/5/2025	Sheet Revisions		
File Name: B14_23916STR_06-01-Details.dgn	Date:	Comments	Init.
Horiz. Scale: 1:2 Vert. Scale:			
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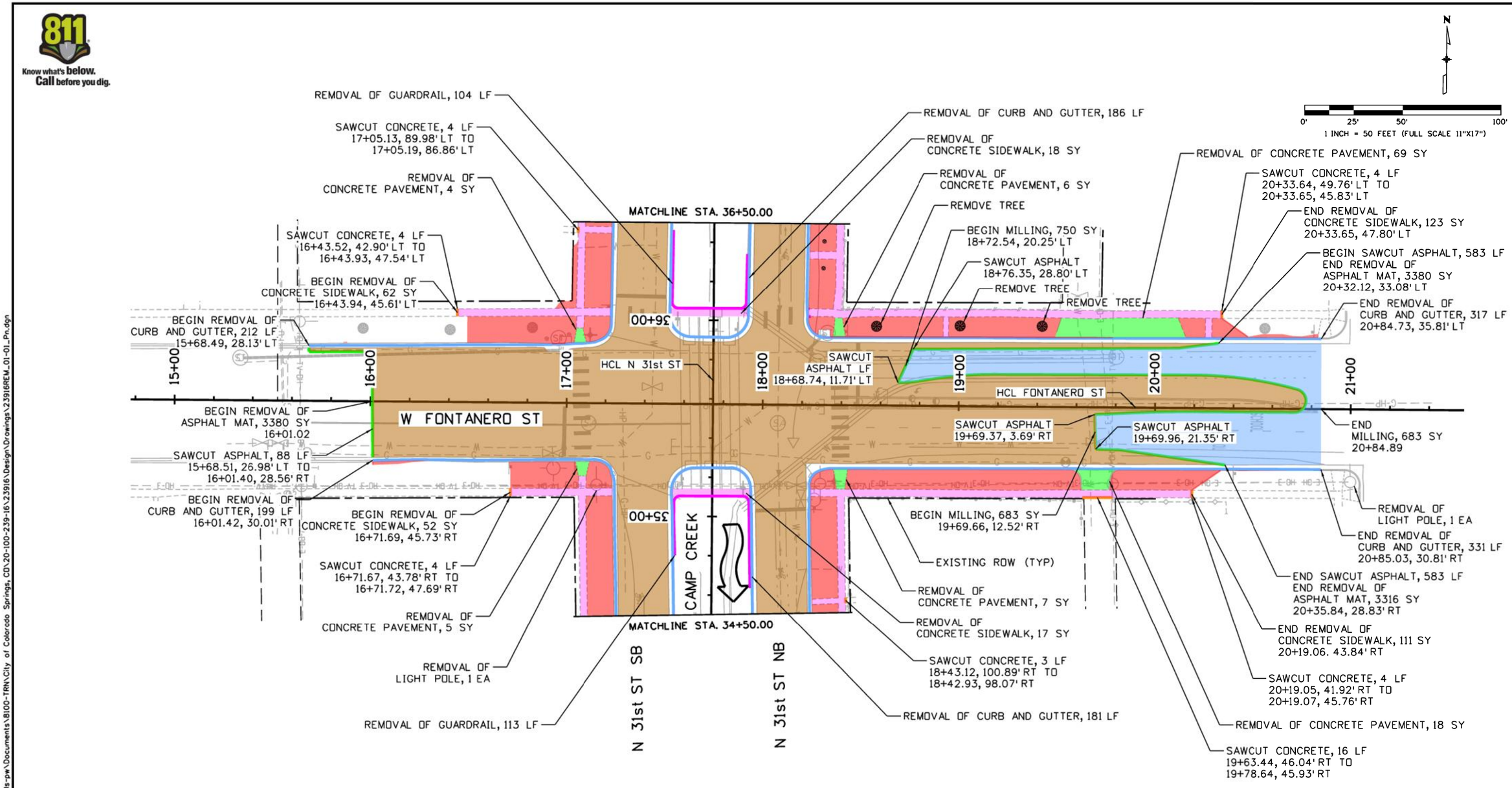
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SAFETY RAIL DETAILS

Designer: R. BORDEN
Detailer: C. FISHER
Sheet Subset: BRG
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: B14 of B14

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Know what's below. Call before you dig.



REMOVAL LEGEND

REMOVAL OF ASPHALT MAT | REMOVAL OF CONCRETE PAVEMENT | REMOVAL OF CONCRETE SIDEWALK | CLEARING AND GRUBBING

REMOVAL OF ASPHALT MAT (MILLING) | REMOVAL OF CURB AND GUTTER | REMOVAL OF GUARDRAIL | SAWCUT ASPHALT | SAWCUT CONCRETE

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File Name: 23916REM_01-01_Pn.dgn			
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31ST ST & FONTANERO ST
REMOVALS
W FONTANERO ST

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
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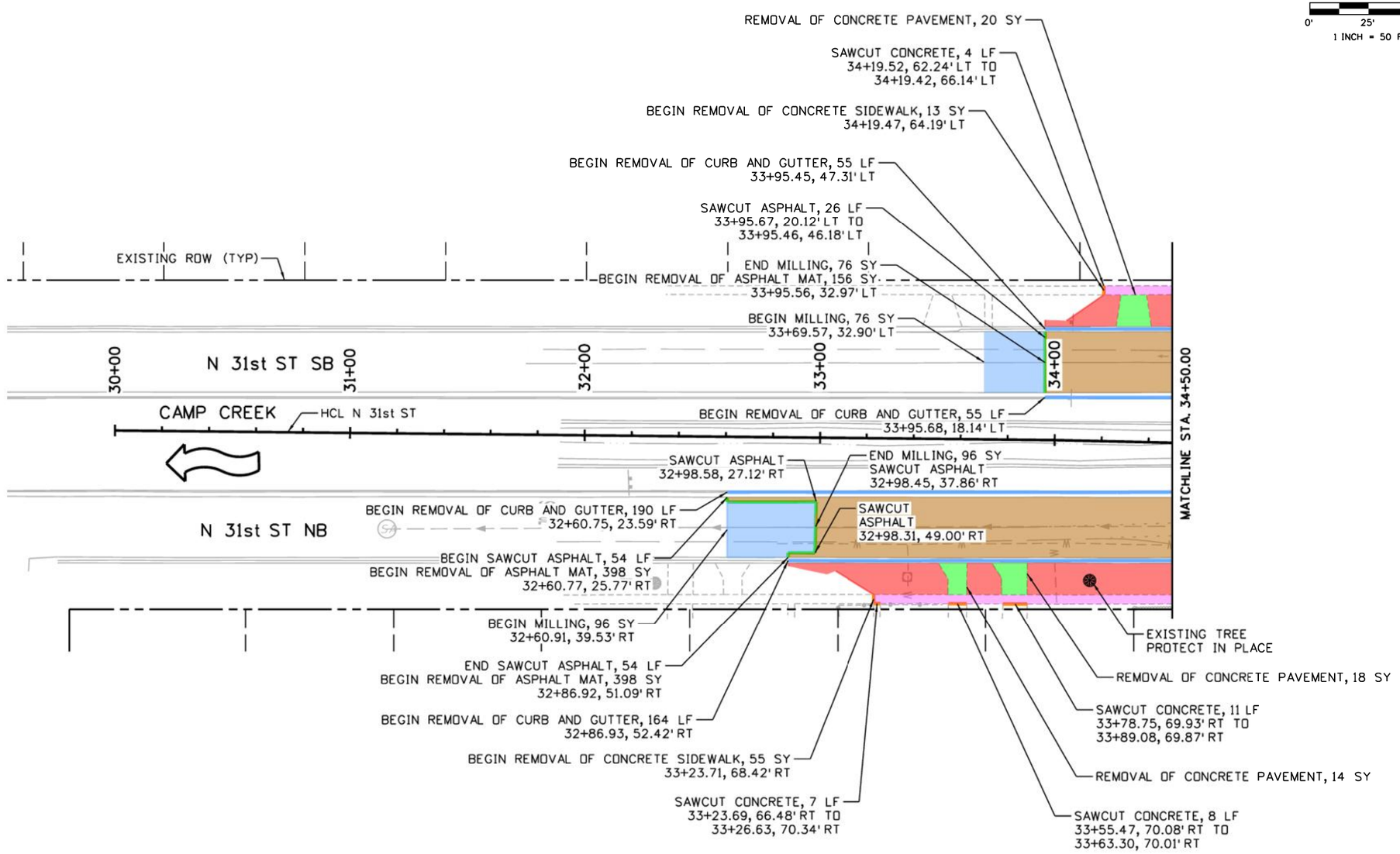
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Know what's below.
Call before you dig.

N

0' 25' 50' 100'
1 INCH = 50 FEET (FULL SCALE 11"X17")



REMOVAL LEGEND

REMOVAL OF ASPHALT MAT | REMOVAL OF CONCRETE PAVEMENT | REMOVAL OF CONCRETE SIDEWALK | CLEARING AND GRUBBING

REMOVAL OF ASPHALT MAT (MILLING) | REMOVAL OF CURB AND GUTTER | REMOVAL OF GUARDRAIL | SAWCUT ASPHALT | SAWCUT CONCRETE

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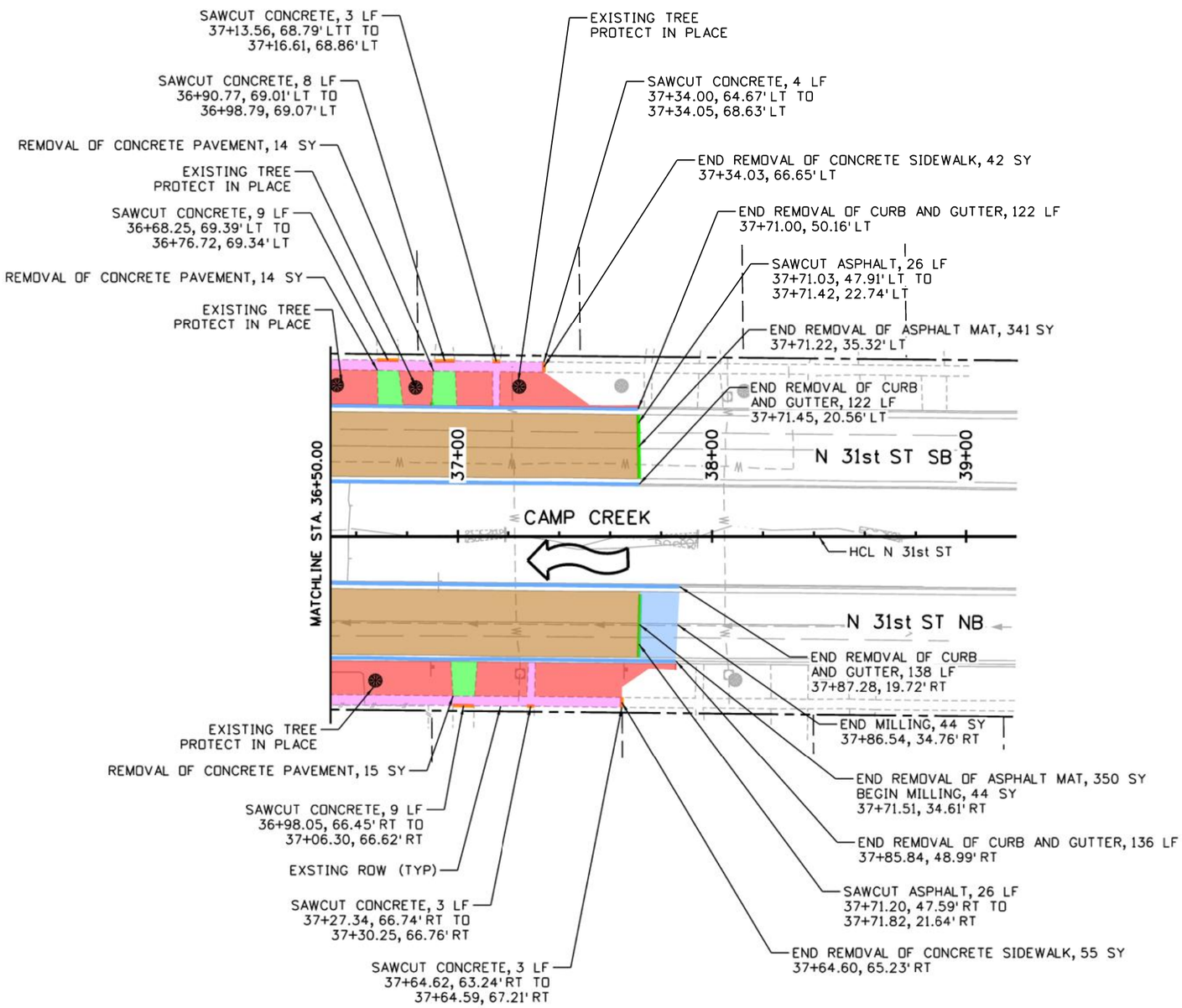
31ST ST & FONTANERO ST
REMOVALS
N 31st ST

Designer: JDM
Detailer: BKM
Sheet Subset: REMV
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 2 of 3

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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

REMOVAL LEGEND

REMOVAL OF ASPHALT MAT | REMOVAL OF CONCRETE PAVEMENT | REMOVAL OF CONCRETE SIDEWALK | CLEARING AND GRUBBING

REMOVAL OF ASPHALT MAT (MILLING) | REMOVAL OF CURB AND GUTTER | REMOVAL OF GUARDRAIL | SAWCUT ASPHALT | SAWCUT CONCRETE

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31ST ST & FONTANERO ST
REMOVALS
N 31st ST

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Detailer: BKM
Sheet Subset: REMV
Structure Numbers: CSG-E.00-10.57A
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Project #STU-M240-203
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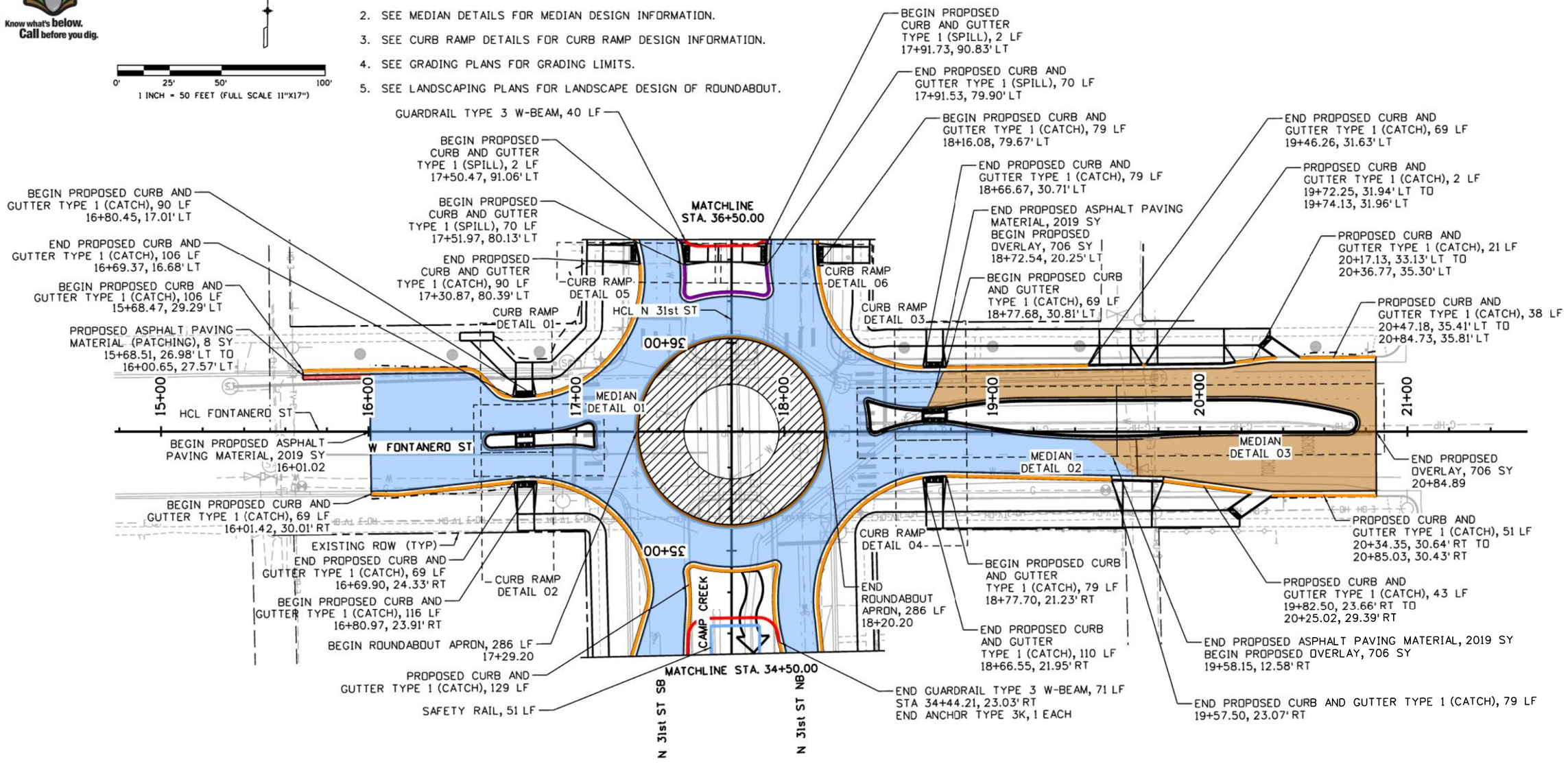
N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

NOTES:

1. SEE SIDEWALK PLANS FOR SIDEWALK DESIGN INFORMATION.
2. SEE MEDIAN DETAILS FOR MEDIAN DESIGN INFORMATION.
3. SEE CURB RAMP DETAILS FOR CURB RAMP DESIGN INFORMATION.
4. SEE GRADING PLANS FOR GRADING LIMITS.
5. SEE LANDSCAPING PLANS FOR LANDSCAPE DESIGN OF ROUNDABOUT.



PAVING LEGEND

PROPOSED ASPHALT PAVING MATERIAL | PROPOSED OVERLAY | PROPOSED CONCRETE PAVEMENT (10 INCH) (SPECIAL) (SEE TRUCK APRON DETAIL) | PROPOSED ASPHALT PAVING MATERIAL (PATCHING)

ROUNDABOUT APRON | PROPOSED CURB AND GUTTER TYPE 1 (CATCH) | GUARDRAIL TYPE 3 W-BEAM | PROPOSED CURB AND GUTTER TYPE 1 (SPILL) | SAFETY RAIL

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31ST ST & FONTANERO ST
ROADWAY DESIGN
W FONTANERO ST

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	DES-Pn	Subset Sheets: 1 of 4	

Project No./Code
Project #STU-M240-203
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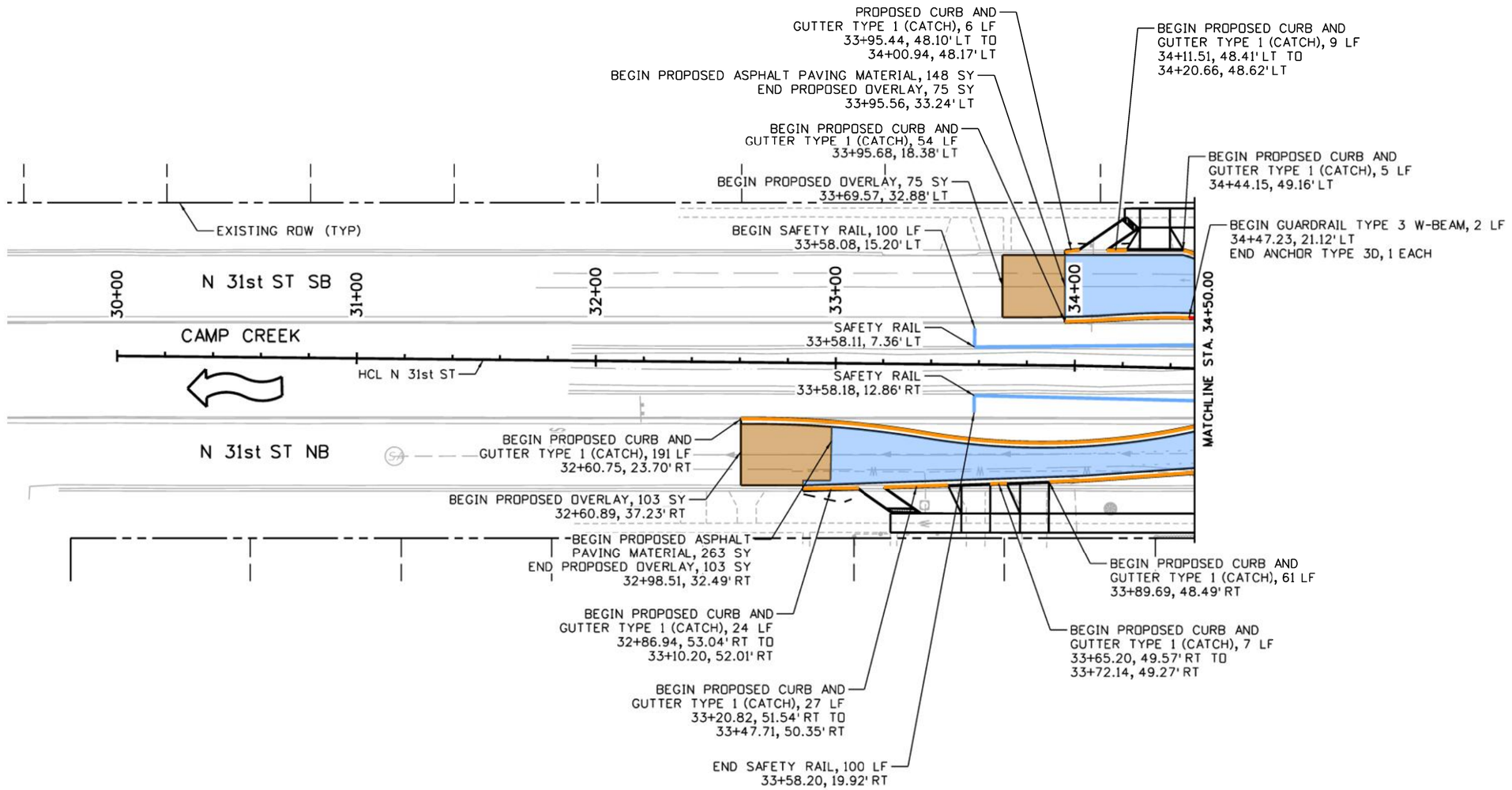
NOTES:

1. SEE SIDEWALK PLANS FOR SIDEWALK DESIGN INFORMATION.
2. SEE MEDIAN DETAILS FOR MEDIAN DESIGN INFORMATION.
3. SEE CURB RAMP DETAILS FOR CURB RAMP DESIGN INFORMATION.
4. SEE GRADING PLANS FOR GRADING LIMITS.

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



PAVING LEGEND

PROPOSED ASPHALT PAVING MATERIAL | PROPOSED OVERLAY | PROPOSED CONCRETE PAVEMENT (10 INCH) (SPECIAL) (SEE TRUCK APRON DETAIL) | PROPOSED ASPHALT PAVING MATERIAL (PATCHING)

ROUNDABOUT APRON | PROPOSED CURB AND GUTTER TYPE 1 (CATCH) | GUARDRAIL TYPE 3 W-BEAM | PROPOSED CURB AND GUTTER TYPE 1 (SPILL) | SAFETY RAIL

Print Date: 1/16/2026			
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31ST ST & FONTANERO ST
ROADWAY DESIGN
N 31st ST

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	DES-Pn	Subset Sheets: 2 of 4	

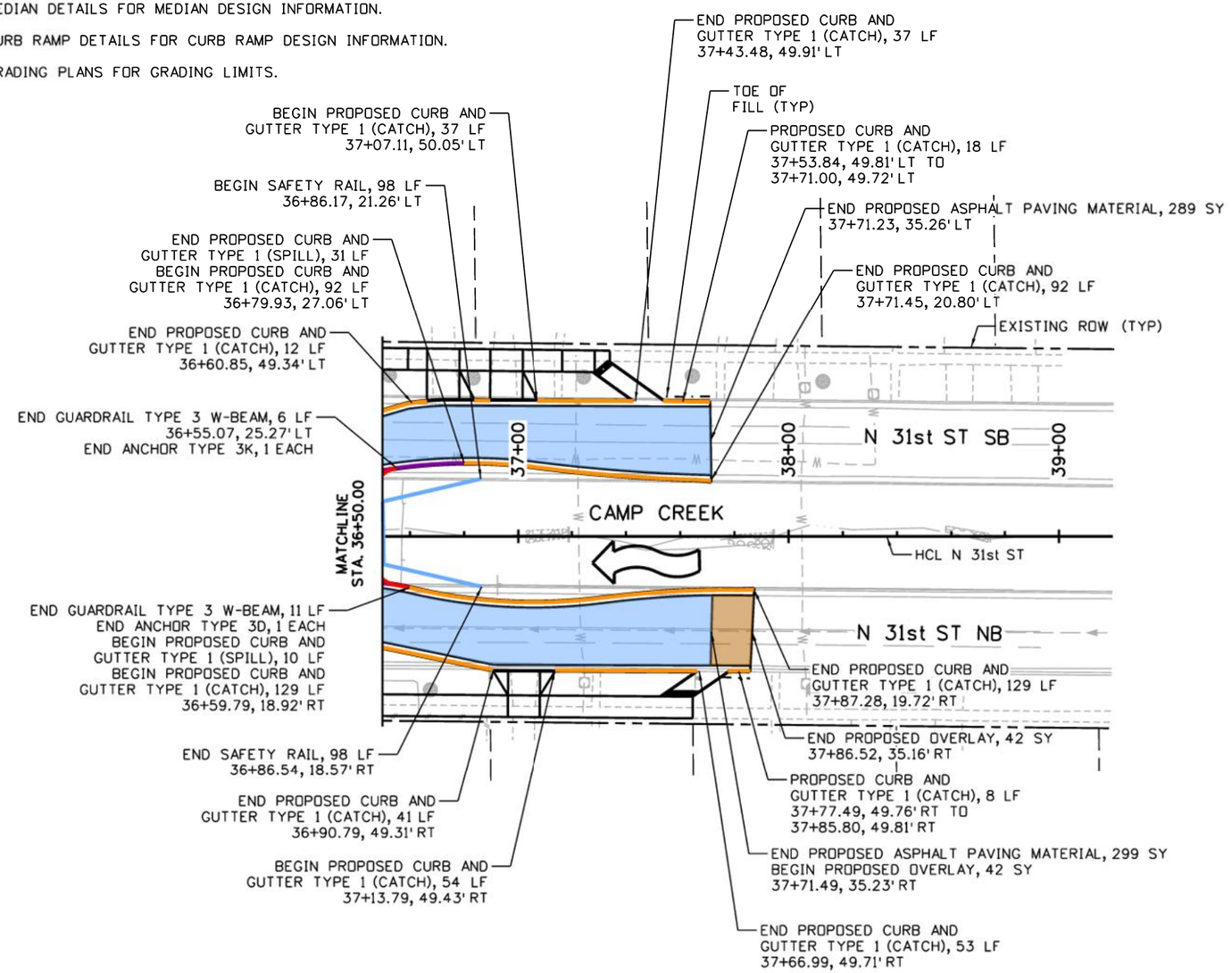
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NOTES:

1. SEE SIDEWALK PLANS FOR SIDEWALK DESIGN INFORMATION.
2. SEE MEDIAN DETAILS FOR MEDIAN DESIGN INFORMATION.
3. SEE CURB RAMP DETAILS FOR CURB RAMP DESIGN INFORMATION.
4. SEE GRADING PLANS FOR GRADING LIMITS.



N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

PAVING LEGEND

PROPOSED ASPHALT PAVING MATERIAL
PROPOSED OVERLAY
PROPOSED CONCRETE PAVEMENT (10 INCH) (SPECIAL) (SEE TRUCK APRON DETAIL)
PROPOSED ASPHALT PAVING MATERIAL (PATCHING)
ROUNDABOUT APRON
PROPOSED CURB AND GUTTER TYPE 1 (CATCH)
GUARDRAIL TYPE 3 W-BEAM
PROPOSED CURB AND GUTTER TYPE 1 (SPILL)
SAFETY RAIL

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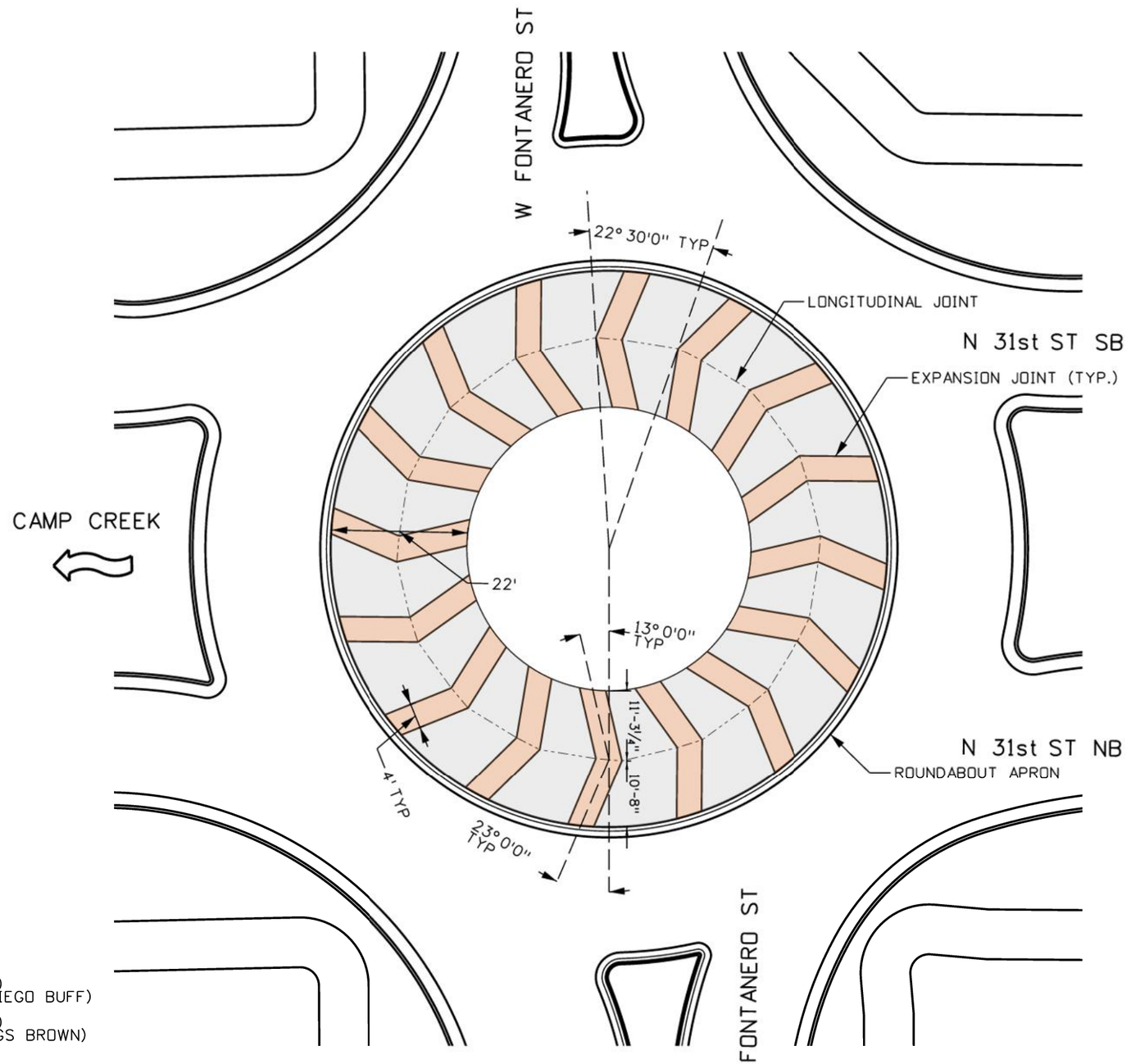
31ST ST & FONTANERO ST
ROADWAY DESIGN
N 31st ST

Designer: JDM
Detailer: BKM
Sheet Subset: DES-Pn
Structure Numbers: CSG-E.00-10.57A
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Sheet Number

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PAVING LEGEND

- CONCRETE PAVEMENT (10 INCH) (SPECIAL)(DAVIS COLOR SAN DIEGO BUFF)
- CONCRETE PAVEMENT (10 INCH) (SPECIAL)(DAVIS COLOR SPRINGS BROWN)
- ---- LONGITUDINAL JOINTS
- —— EXPANSION JOINTS

NOTES:

1. SEE CURB AND GUTTER DETAILS FOR ROUNDABOUT APRON DESIGN INFORMATION.

Print Date: 1/16/2026		Sheet Revisions	
File Name: 23916DES_01-04_Pn.dgn		Date:	Comments / Init.
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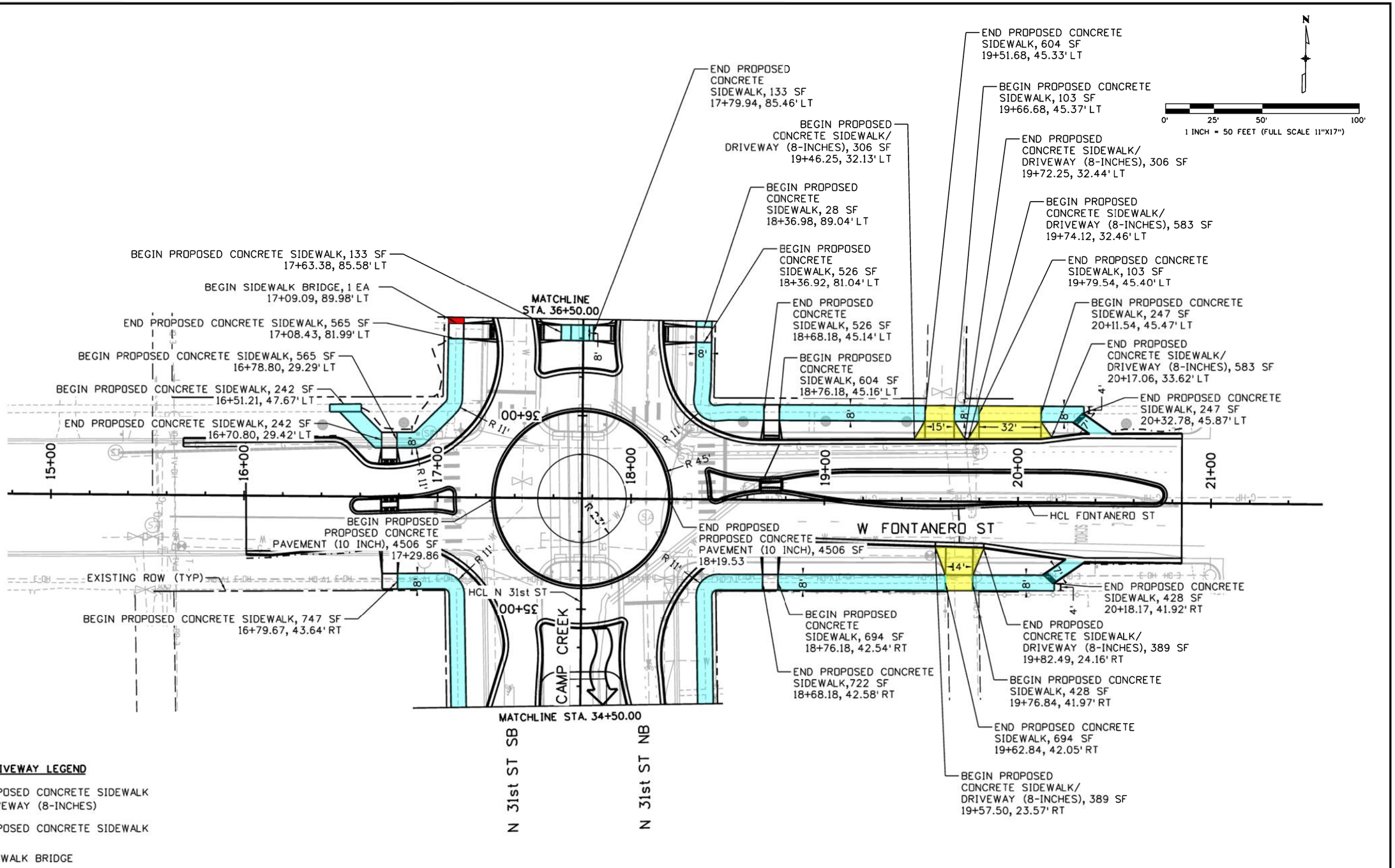
31ST ST & FONTANERO ST ROADWAY DESIGN (TRUCK APRON) DETAIL

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
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SIDEWALK/DRIVEWAY LEGEND

- PROPOSED CONCRETE SIDEWALK DRIVEWAY (8-INCHES)
- PROPOSED CONCRETE SIDEWALK
- SIDEWALK BRIDGE

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31ST ST & FONTANERO ST SIDEWALK & DRIVEWAY DESIGN W FONTANERO ST

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	DES-SW	Subset Sheets: 1 of 3	

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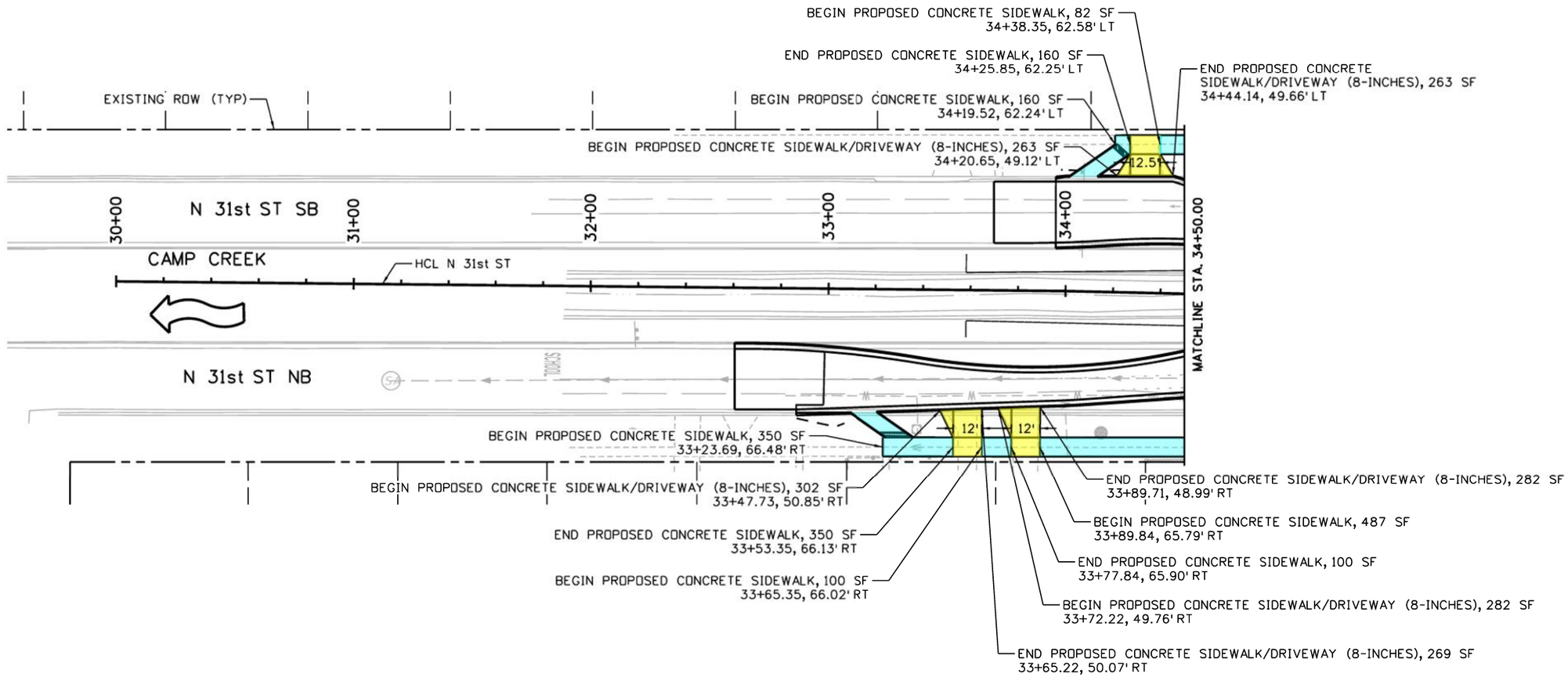
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Sheet Number

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0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



SIDEWALK/DRIVEWAY LEGEND

PROPOSED CONCRETE SIDEWALK DRIVEWAY (8-INCHES)

PROPOSED CONCRETE SIDEWALK

Print Date: 1/16/2026		Sheet Revisions	
File Name: 23916DES_03-02_SWPn.dgn		Date:	Comments: Init.
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31ST ST & FONTANERO ST SIDEWALK & DRIVEWAY DESIGN N 31st ST

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Detailer:	BKM		
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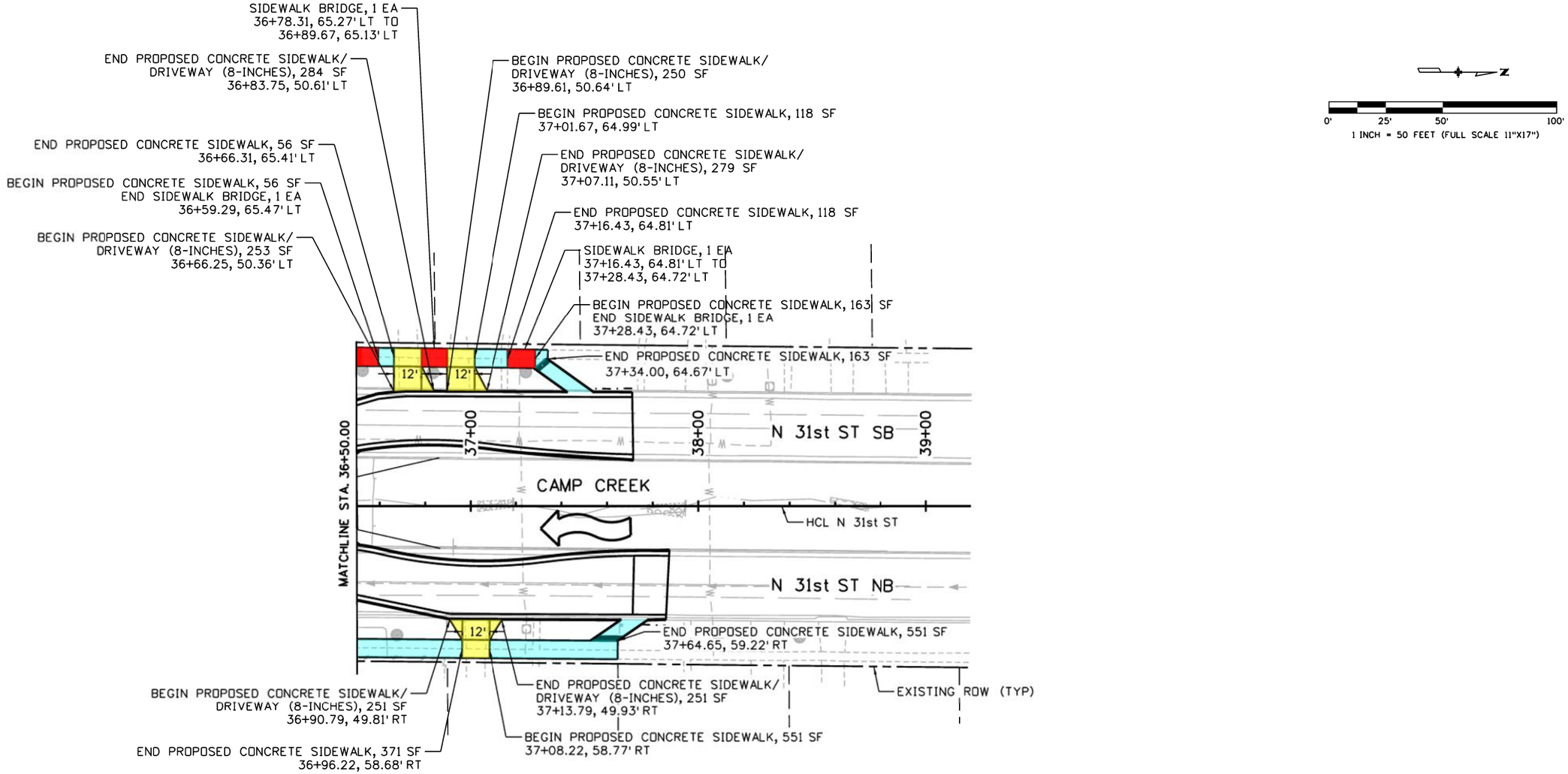
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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

SIDEWALK/DRIVEWAY LEGEND

- PROPOSED CONCRETE SIDEWALK DRIVEWAY (8-INCHES)
- PROPOSED CONCRETE SIDEWALK
- SIDEWALK BRIDGE

NOTES:

1. SEE SIDEWALK BRIDGE DETAIL FOR ADDITIONAL INFORMATION.

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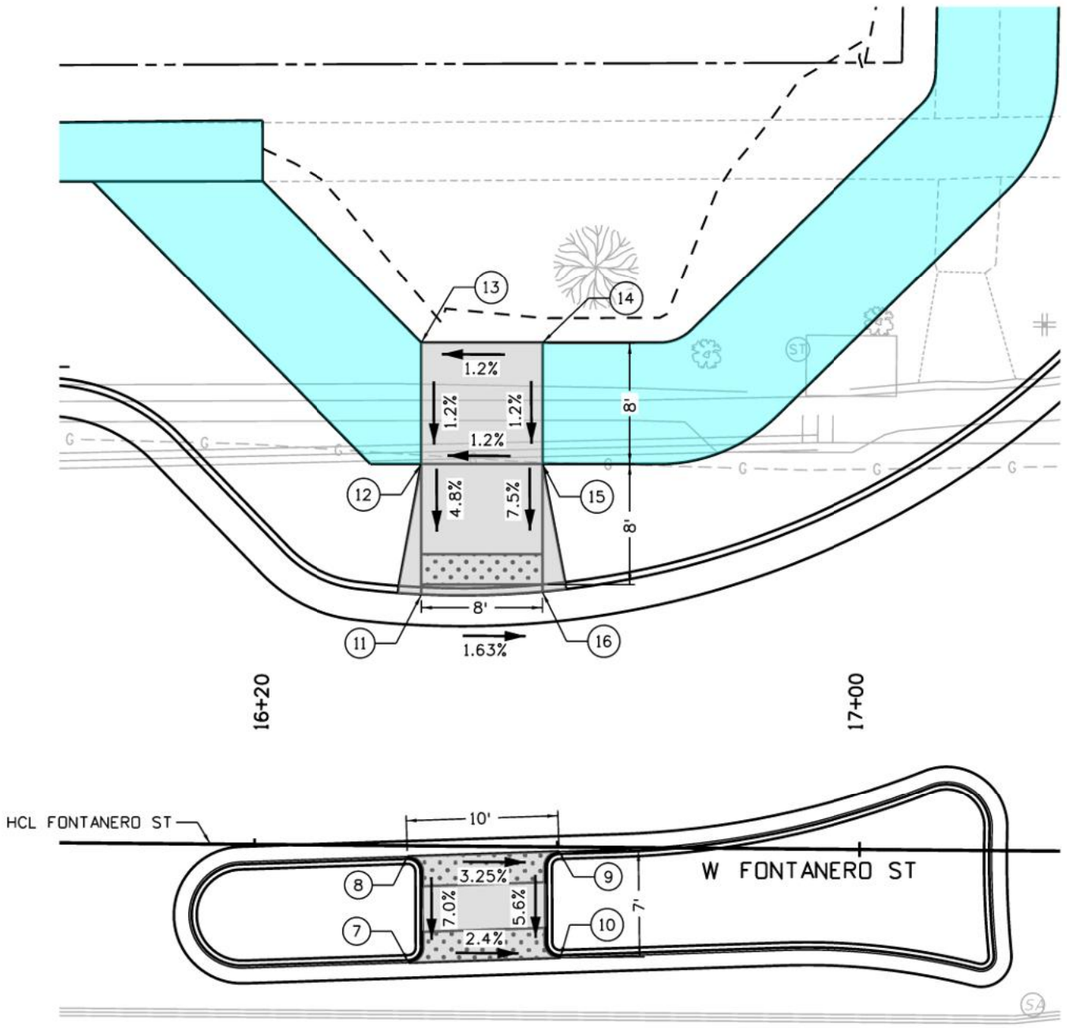
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31ST ST & FONTANERO ST
SIDEWALK & DRIVEWAY DESIGN
N 31st ST

Designer: JDM
Detailer: BKM
Sheet Subset: DES-SW
Structure Numbers: CSG-E.00-10.57A
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CURB RAMP LEGEND

PROPOSED CONCRETE CURB RAMP (6-INCHES)

PROPOSED CONCRETE SIDEWALK

N

0' 5' 10' 20'

1 INCH = 10 FEET (FULL SCALE 11"X17")

W. FONTANERO ST CURB RAMP DETAIL 01				
POINT	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
7	16+70.27	7.70' RT	SPLITTER ISLAND CROSSING	6178.24'
8	16+70.13	0.70' RT	SPLITTER ISLAND CROSSING	6178.91'
9	16+80.13	0.29' RT	SPLITTER ISLAND CROSSING	6178.61'
10	16+80.28	7.29' RT	SPLITTER ISLAND CROSSING	6178.14'
11	16+70.90	16.60' LT	PROPOSED FLOWLINE	6179.11'
12	16+70.83	25.23' LT	PROPOSED LANDING	6179.52'
13	16+70.77	33.23' LT	PROPOSED SIDEWALK	6179.61'
14	16+78.77	33.29' LT	PROPOSED SIDEWALK	6179.70'
15	16+78.83	25.29' LT	PROPOSED LANDING	6179.61'
16	16+78.90	16.84' LT	PROPOSED FLOWLINE	6178.98'

NOTES:

1. SEE LANDSCAPE PLAN FOR SPLITTER ISLAND TREATMENT.
2. SEE GEC PLANS FOR SIDEWALK ELEVATION POINTS.

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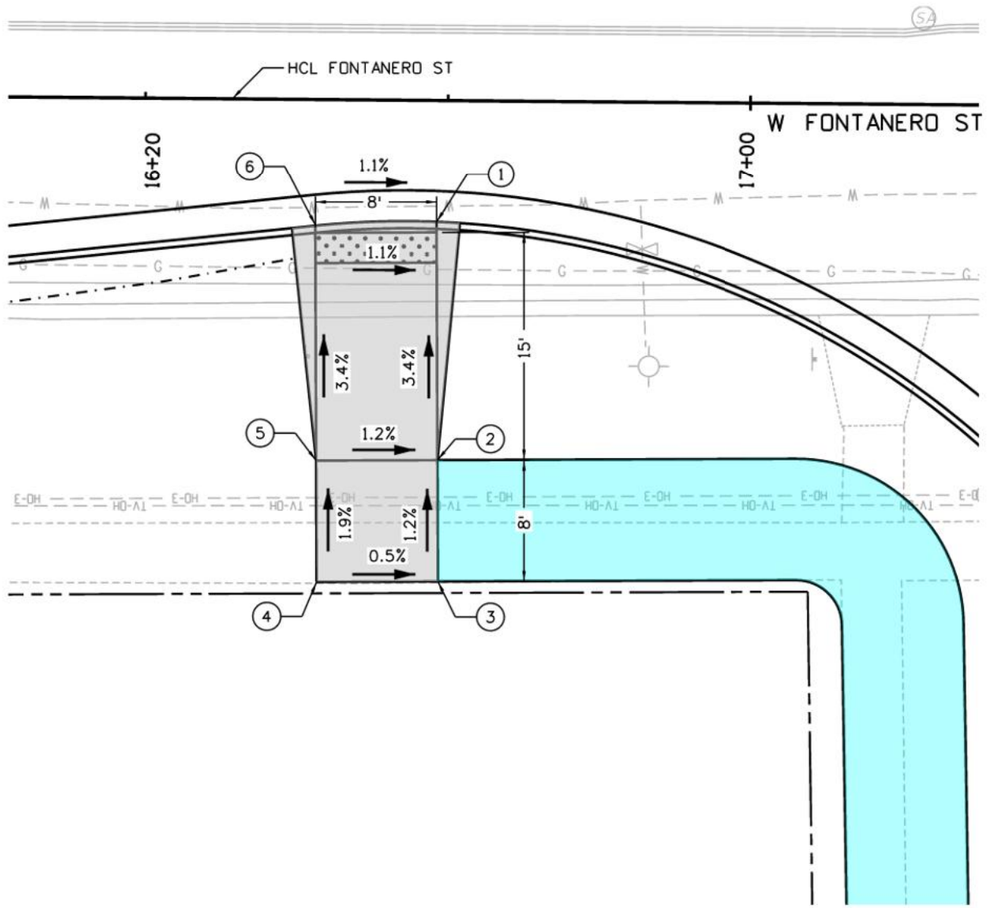
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31ST ST & FONTANERO ST
CURB RAMP DETAIL 01
W FONTANERO ST

Designer: JDM
Detailer: BKM
Sheet Subset: CR
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 9

Project No./Code
Project #STU-M240-203
Bid #__-__
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CURB RAMP LEGEND

PROPOSED CONCRETE CURB RAMP (6-INCHES)

PROPOSED CONCRETE SIDEWALK

N

0' 5' 10' 20'

1 INCH = 10 FEET (FULL SCALE 11"X17")

W. FONTANERO ST CURB RAMP DETAIL 02				
POINT	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
1	16+79.44	23.84' RT	PROPOSED FLOWLINE	6178.30'
2	16+79.63	39.59' RT	PROPOSED LANDING	6177.76'
3	16+79.71	47.59' RT	PROPOSED SIDEWALK	6177.83'
4	16+71.72	47.69' RT	PROPOSED SIDEWALK	6177.97'
5	16+71.62	39.69' RT	PROPOSED LANDING	6177.88'
6	16+71.45	24.16' RT	PROPOSED FLOWLINE	6177.30'

NOTE:

2. SEE GEC PLANS FOR SIDEWALK ELEVATION POINTS.

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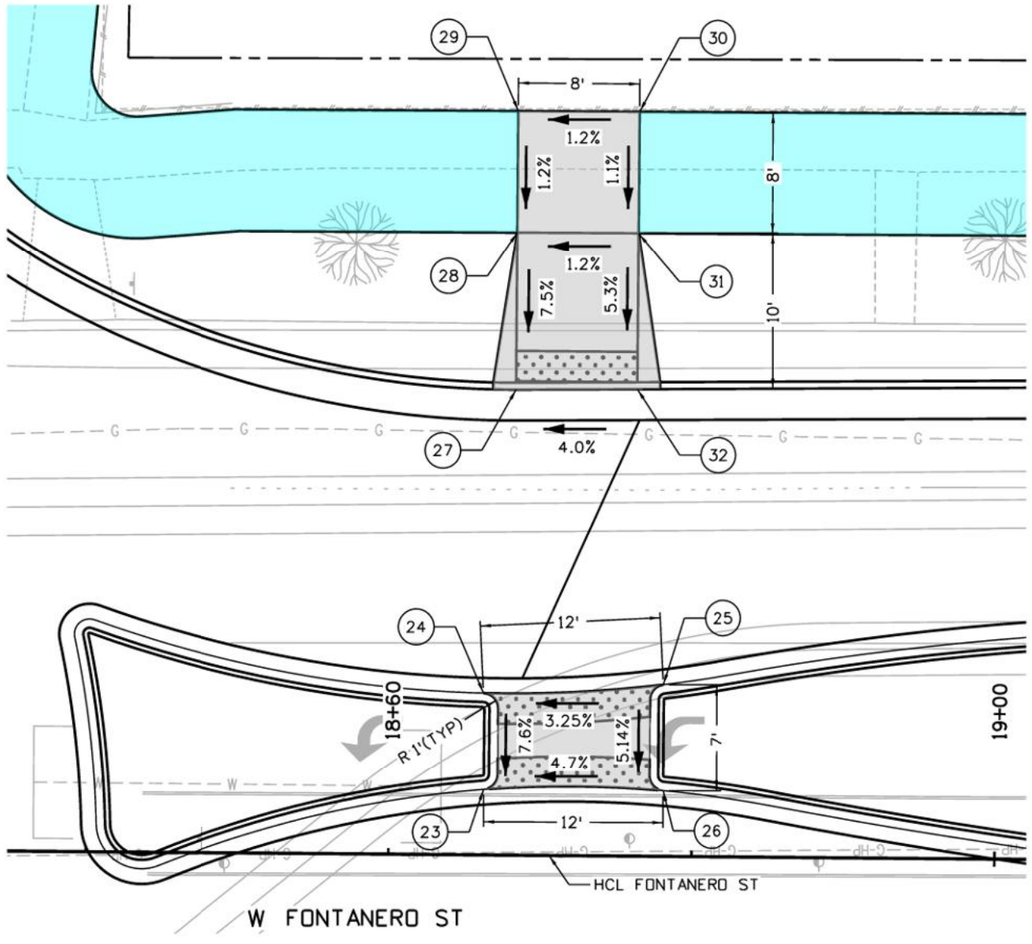
31ST ST & FONTANERO ST
CURB RAMP DETAIL 02
W FONTANERO ST

Designer: JDM
Detailer: BKM
Sheet Subset: CR
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 2 of 9

Project No./Code
Project #STU-M240-203
Bid #__-__
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CURB RAMP LEGEND

PROPOSED CONCRETE CURB RAMP (6-INCHES)

PROPOSED CONCRETE SIDEWALK

N

0' 5' 10' 20'

1 INCH = 10 FEET (FULL SCALE 11"X17")

E. FONTANERO ST CURB RAMP DETAIL 03				
POINT	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
23	18+66.26	4.31' LT	SPLITTER ISLAND CROSSING	6180.48'
24	18+66.20	10.71' LT	SPLITTER ISLAND CROSSING	6181.01
25	18+78.05	11.36' LT	SPLITTER ISLAND CROSSING	6181.40
26	18+78.10	4.33' LT	SPLITTER ISLAND CROSSING	6181.04'
27	18+68.18	30.70' LT	PROPOSED FLOWLINE	6180.57'
28	18+68.18	41.14' LT	PROPOSED LANDING	6181.35'
29	18+68.18	49.14' LT	PROPOSED SIDEWALK	6181.54'
30	18+76.18	49.16' LT	PROPOSED SIDEWALK	6181.63'
31	18+76.18	41.16' LT	PROPOSED LANDING	6181.53'
32	18+76.18	30.80' LT	PROPOSED FLOWLINE	6180.89'

NOTES:

1. SEE LANDSCAPE PLAN FOR SPLITTER ISLAND TREATMENT.
2. SEE GEC PLANS FOR SIDEWALK ELEVATION POINTS.

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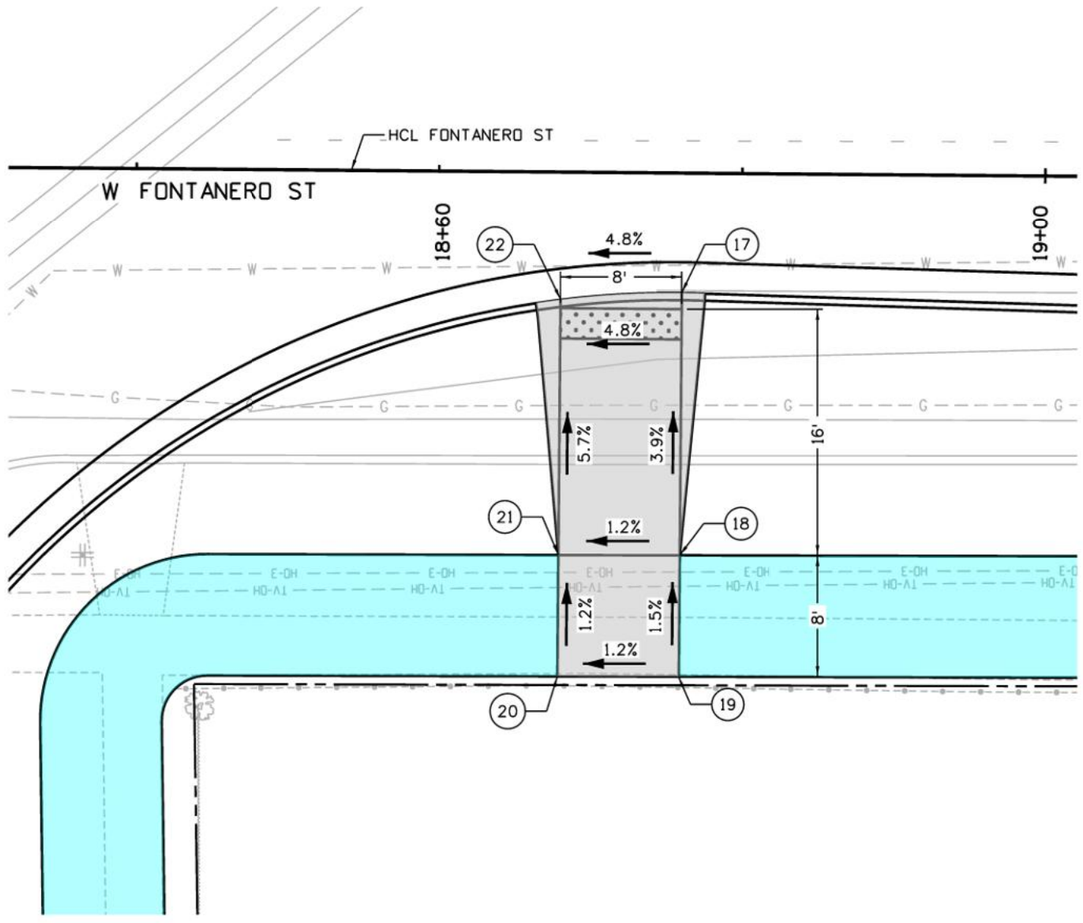
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31ST ST & FONTANERO ST
CURB RAMP DETAIL 03
W FONTANERO ST

Designer: JDM
Detailer: BKM
Sheet Subset: CR
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 3 of 9

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

Know what's below. Call before you dig.



CURB RAMP LEGEND

PROPOSED CONCRETE CURB RAMP (6-INCHES)

PROPOSED CONCRETE SIDEWALK

N

0' 5' 10' 20'

1 INCH = 10 FEET (FULL SCALE 11"X17")

E. FONTANERO ST CURB RAMP DETAIL 04				
POINT	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
17	18+76.18	21.21' RT	PROPOSED FLOWLINE	6179.38'
18	18+76.18	38.54' RT	PROPOSED LANDING	6180.06'
19	18+76.18	46.54' RT	PROPOSED SIDEWALK	6180.18'
20	18+68.16	46.85' RT	PROPOSED SIDEWALK	6180.06'
21	18+68.18	38.58' RT	PROPOSED LANDING	6179.97'
22	18+68.18	21.71' RT	PROPOSED FLOWLINE	6179.00'

NOTE:

1. SEE GEC PLANS FOR SIDEWALK ELEVATION POINTS.

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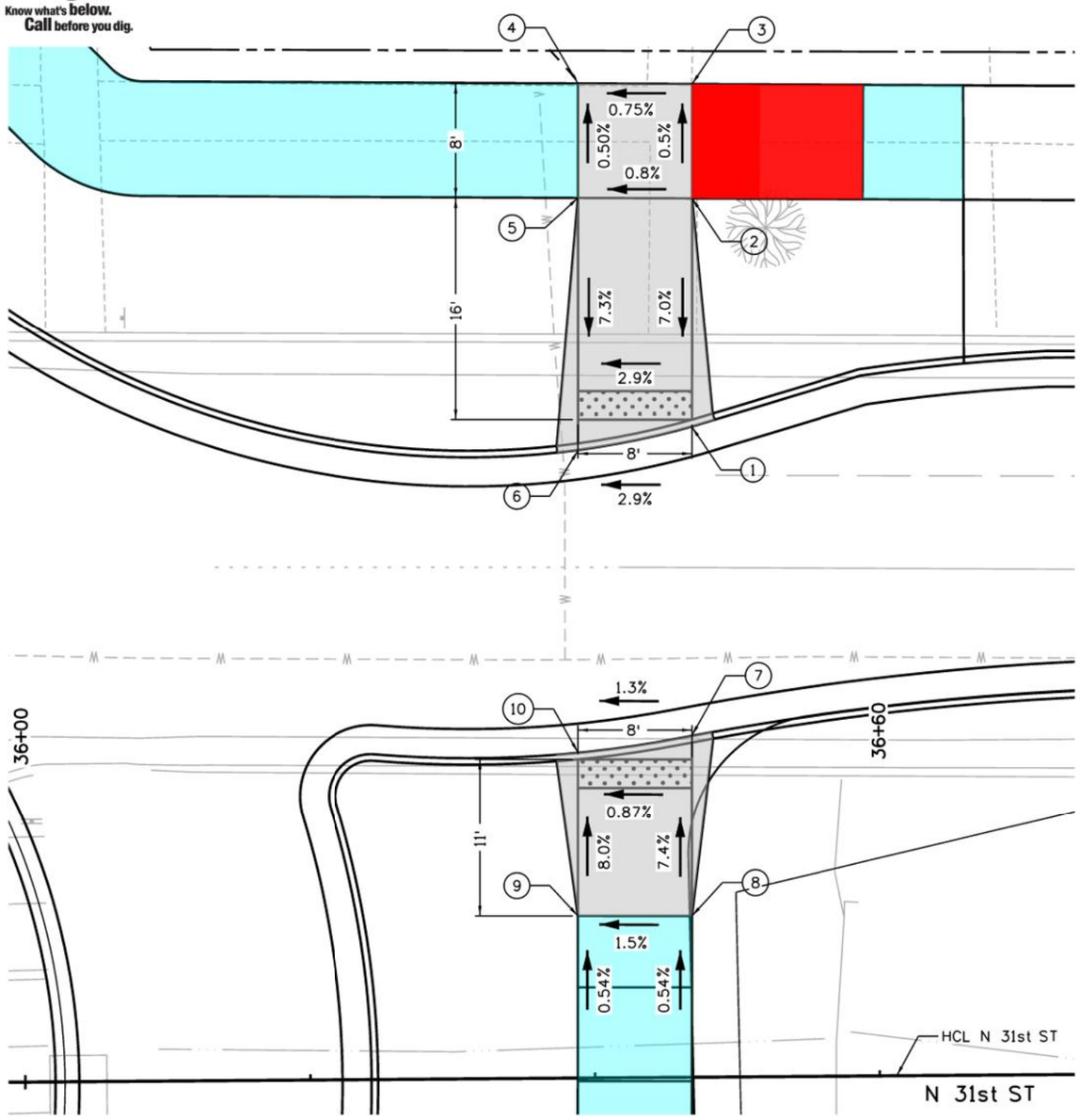
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CURB RAMP DETAIL 04
W FONTANERO ST

Designer: JDM
Detailer: BKM
Sheet Subset: CR
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 4 of 9

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number



CURB RAMP LEGEND

PROPOSED CONCRETE CURB RAMP (6-INCHES)

PROPOSED CONCRETE SIDEWALK

SIDEWALK BRIDGE

N

0' 5' 10' 20'

1 INCH = 10 FEET (FULL SCALE 11"X17")

SB 31st ST CURB RAMP DETAIL 05				
POINT	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
1	36+47.12	45.58' LT	PROPOSED FLOWLINE	6180.19'
2	36+47.24	61.64' LT	PROPOSED LANDING	6181.32'
3	36+47.30	69.64' LT	PROPOSED SIDEWALK	6181.36'
4	36+39.30	69.73' LT	PROPOSED SIDEWALK	6181.30'
5	36+39.24	61.73' LT	PROPOSED LANDING	6181.26'
6	36+39.09	34.99' LT	PROPOSED FLOWLINE	6179.96'
7	36+46.97	23.99' LT	PROPOSED FLOWLINE	6180.53'
8	36+46.87	11.29' LT	PROPOSED LANDING	6181.43'
9	36+38.37	11.35' LT	PROPOSED LANDING	6181.31'
10	36+38.96	22.85' LT	PROPOSED FLOWLINE	6180.43'

NOTE:

1. SEE GEC PLANS FOR SIDEWALK ELEVATION POINTS.

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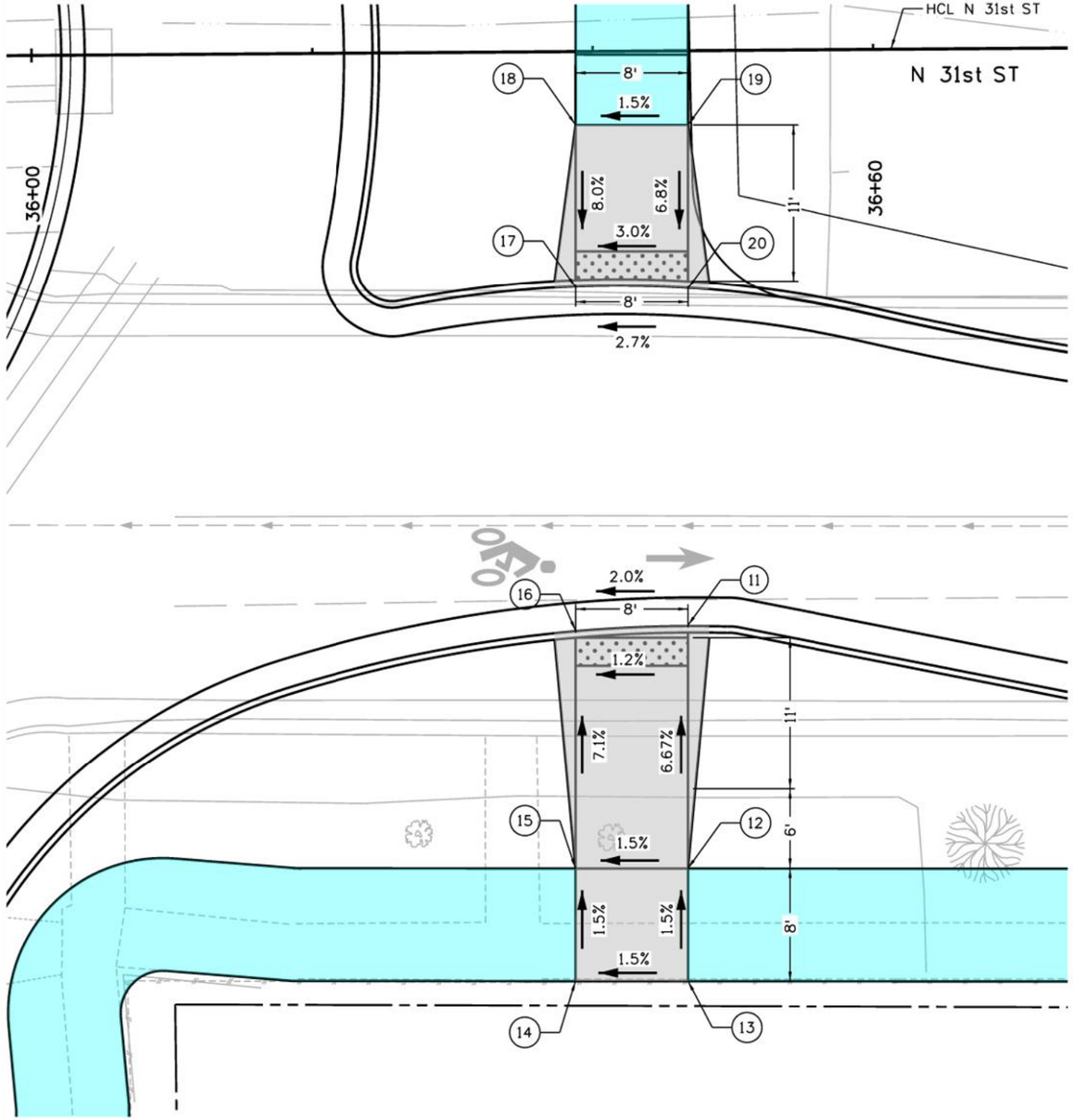
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31ST ST & FONTANERO ST
CURB RAMP DETAIL 05
N 31st ST

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Detailer: BKM
Sheet Subset: CR
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 5 of 9

Project No./Code
Project #STU-M240-203
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CURB RAMP LEGEND

PROPOSED CONCRETE CURB RAMP (6-INCHES)

PROPOSED CONCRETE SIDEWALK

N

0' 5' 10' 20'

1 INCH = 10 FEET (FULL SCALE 11"X17")

NB 31st ST CURB RAMP DETAIL 06				
POINT	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
11	36+46.49	40.94' RT	PROPOSED FLOWLINE	6180.24'
12	36+46.36	58.28' RT	PROPOSED LANDING	6181.38'
13	36+46.30	66.28' RT	PROPOSED SIDEWALK	6181.46'
14	36+38.30	66.22' RT	PROPOSED SIDEWALK	6181.34'
15	36+38.36	58.22' RT	PROPOSED LANDING	6181.22'
16	36+38.49	41.25' RT	PROPOSED FLOWLINE	6181.10'
17	36+38.67	16.78' RT	PROPOSED FLOWLINE	6181.22'
18	36+38.75	5.22' RT	PROPOSED LANDING	6181.40'
19	36+46.75	5.28' RT	PROPOSED LANDING	6181.52'
20	36+46.66	16.92' RT	PROPOSED FLOWLINE	6180.76'

NOTE:

1. SEE GEC PLANS FOR SIDEWALK ELEVATION POINTS.

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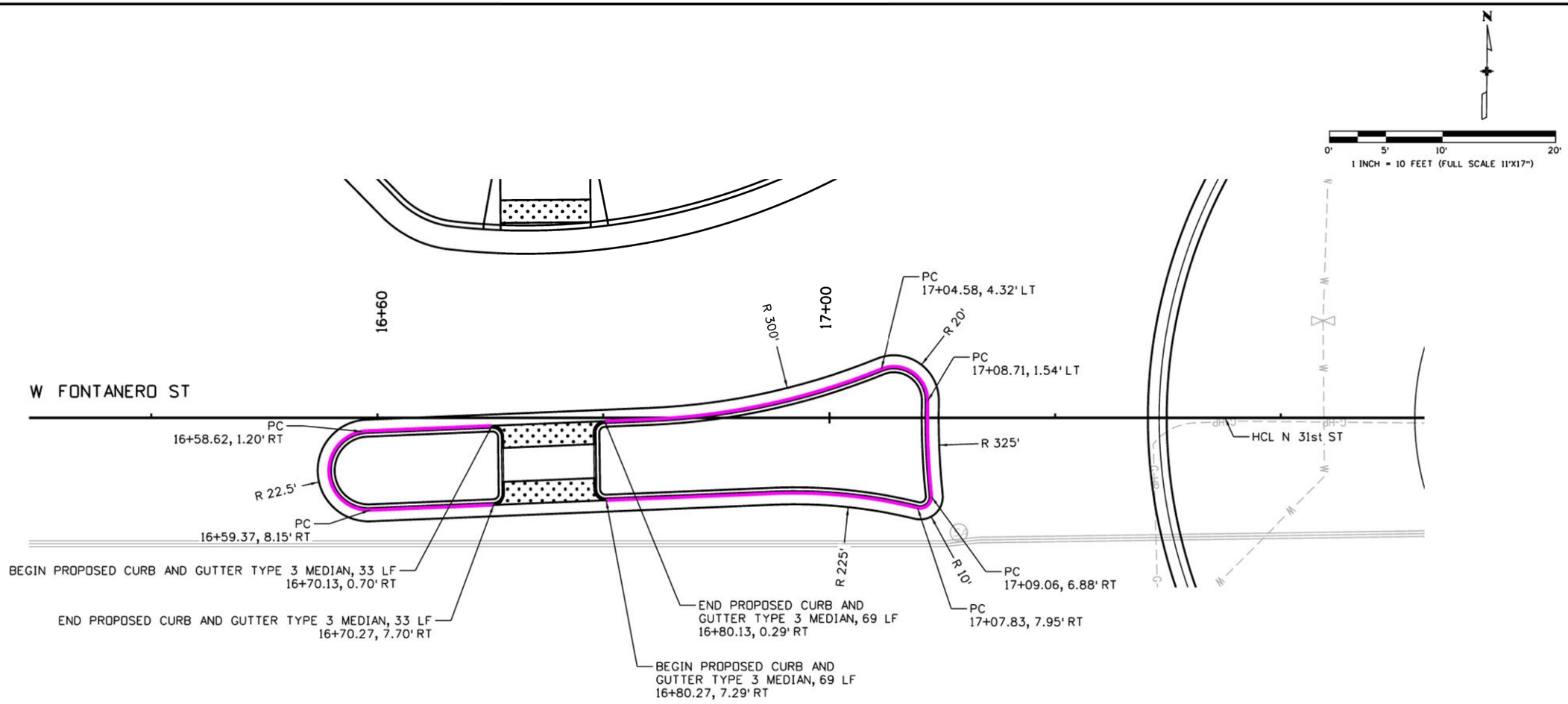
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CURB RAMP DETAIL 06
N 31st ST

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Detailer: BKM
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MEDIAN LEGEND

PROPOSED CURB AND GUTTER TYPE 3 MEDIAN

NOTE:

1. SEE LANDSCAPE PLAN FOR SPLITTER ISLAND TREATMENT.

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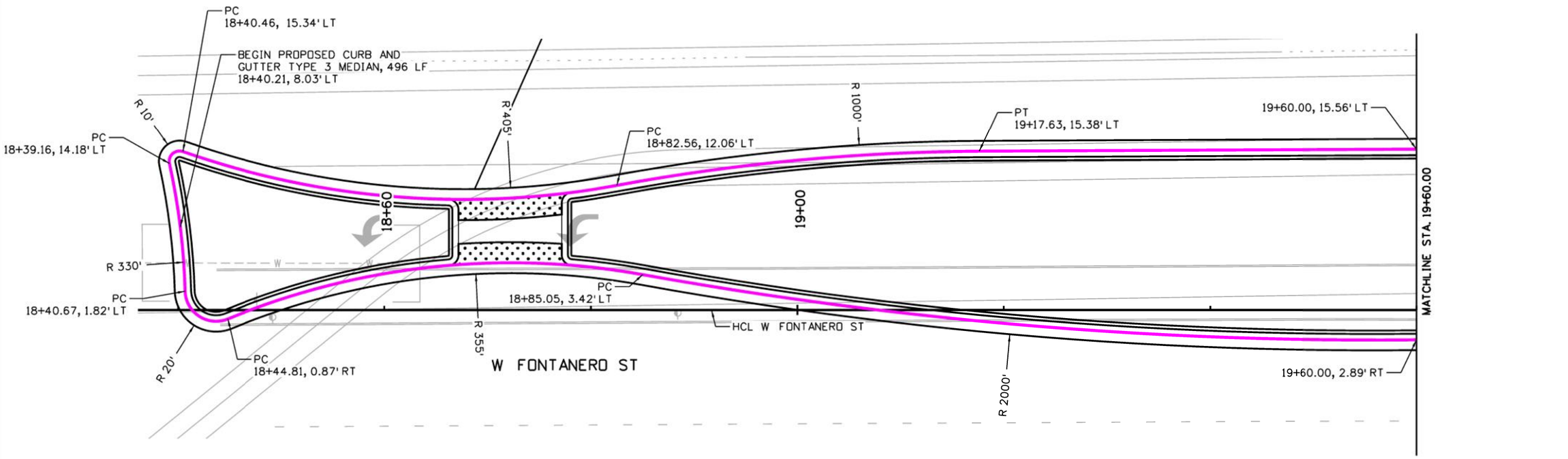
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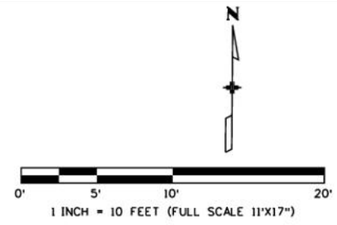
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MEDIAN DETAIL 01
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MEDIAN LEGEND

PROPOSED CURB AND GUTTER TYPE 3 MEDIAN

NOTE:

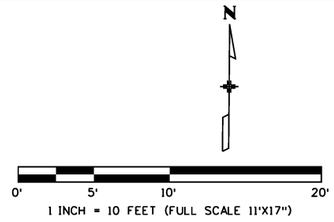
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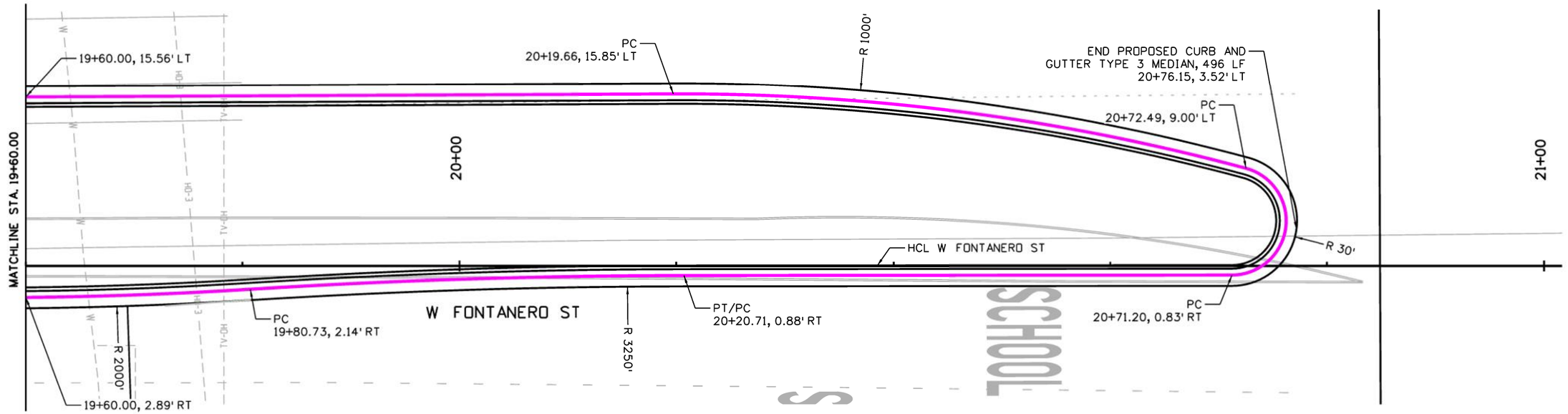
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MEDIAN LEGEND

PROPOSED CURB AND GUTTER TYPE 3 MEDIAN

NOTE:

1. SEE LANDSCAPE PLAN FOR SPLITTER ISLAND TREATMENT.

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File Name: 23916DES_04-09-CR.dgn		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:		Project #STU-M240-203
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Unit Information	Unit Leader					Void:	Detailer: BKM	
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31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
1	1374877.81	3179760.59	16+00.65	27.57' LT	PROPOSED EDGE OF PAVEMENT	6179.30'
2	1374878.19	3179788.45	16+28.52	27.96' LT	PROPOSED EDGE OF PAVEMENT	6178.98'
3	1374878.39	3179803.05	16+43.11	28.16' LT	PROPOSED EDGE OF PAVEMENT	6178.95'
4	1374866.12	3179823.06	16+63.12	15.88' LT	PROPOSED EDGE OF PAVEMENT	6179.40'
5	1374865.17	3179826.30	16+66.36	14.94' LT	PROPOSED EDGE OF PAVEMENT	6179.33'
6	1374864.79	3179832.30	16+72.37	14.56' LT	PROPOSED EDGE OF PAVEMENT	6179.20'
7	1374884.44	3179877.52	17+17.58	34.21' LT	PROPOSED EDGE OF PAVEMENT	6178.62'
8	1374888.65	3179881.00	17+21.06	38.41' LT	PROPOSED EDGE OF PAVEMENT	6178.81'
9	1374897.71	3179886.65	17+26.71	47.48' LT	PROPOSED EDGE OF PAVEMENT	6179.12'
10	1374945.83	3179889.44	36+52.89	45.19' LT	PROPOSED EDGE OF PAVEMENT	6180.44'
11	1374959.18	3179886.78	36+66.24	47.85' LT	PROPOSED EDGE OF PAVEMENT	6180.72'
12	1374972.42	3179886.44	36+79.48	48.19' LT	PROPOSED EDGE OF PAVEMENT	6180.96'
13	1374978.08	3179886.47	36+85.13	48.16' LT	PROPOSED EDGE OF PAVEMENT	6181.05'
14	1374994.84	3179886.68	37+01.90	47.96' LT	PROPOSED EDGE OF PAVEMENT	6181.40'
15	1374998.95	3179886.58	37+06.01	48.06' LT	PROPOSED EDGE OF PAVEMENT	6181.48'
16	1375023.20	3179886.70	37+30.25	47.93' LT	PROPOSED EDGE OF PAVEMENT	6181.98'
17	1375026.79	3179886.72	37+33.85	47.91' LT	PROPOSED EDGE OF PAVEMENT	6182.05'
18	1375040.18	3179886.79	37+47.23	47.85' LT	PROPOSED EDGE OF PAVEMENT	6181.73'
19	1375063.98	3179886.91	37+71.03	47.91' LT	PROPOSED EDGE OF PAVEMENT	6182.30'
20	1375064.30	3179907.98	37+71.36	26.66' LT	PROPOSED EDGE OF PAVEMENT	6182.17'
21	1375064.36	3179911.83	37+71.42	22.74' LT	PROPOSED EDGE OF PAVEMENT	6181.85'
22	1375060.69	3179911.75	37+67.75	22.83' LT	PROPOSED EDGE OF PAVEMENT	6181.78'
23	1375039.29	3179910.82	37+46.35	23.82' LT	PROPOSED EDGE OF PAVEMENT	6181.38'
24	1375022.61	3179909.56	37+29.67	25.08' LT	PROPOSED EDGE OF PAVEMENT	6181.23'
25	1374996.15	3179906.65	37+03.21	27.98' LT	PROPOSED EDGE OF PAVEMENT	6180.84'
26	1374950.67	3179907.00	36+57.73	27.63' LT	PROPOSED EDGE OF PAVEMENT	6180.51'
27	1374945.40	3179907.72	36+52.46	26.92' LT	PROPOSED EDGE OF PAVEMENT	6180.47'
28	1374926.84	3179910.08	36+33.89	24.56' LT	PROPOSED EDGE OF PAVEMENT	6180.25'
29	1374917.81	3179909.79	36+24.86	24.85' LT	PROPOSED EDGE OF PAVEMENT	6180.21'
30	1374913.18	3179912.02	17+52.08	62.94' LT	PROPOSED EDGE OF PAVEMENT	6180.20'
31	1374912.56	3179916.19	17+56.25	62.33' LT	PROPOSED EDGE OF PAVEMENT	6180.24'
32	1374915.20	3179932.57	17+72.64	64.97' LT	PROPOSED EDGE OF PAVEMENT	6180.49'
33	1374914.48	3179944.53	17+84.59	64.24' LT	PROPOSED EDGE OF PAVEMENT	6180.41'
34	1374913.68	3179948.75	17+88.81	63.45' LT	PROPOSED EDGE OF PAVEMENT	6180.37'

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
35	1374918.80	3179954.83	36+25.86	20.20' RT	PROPOSED EDGE OF PAVEMENT	6180.30'
36	1374939.71	3179953.56	36+46.76	18.93' RT	PROPOSED EDGE OF PAVEMENT	6180.51'
37	1374961.76	3179957.53	36+68.82	22.89' RT	PROPOSED EDGE OF PAVEMENT	6180.77'
38	1375006.10	3179960.84	37+13.15	26.21' RT	PROPOSED EDGE OF PAVEMENT	6181.16'
39	1375029.36	3179959.06	37+36.42	24.09' RT	PROPOSED EDGE OF PAVEMENT	6181.50'
40	1375064.73	3179957.37	37+71.79	22.73' RT	PROPOSED EDGE OF PAVEMENT	6182.08'
41	1375065.57	3179957.35	37+72.65	21.76' RT	PROPOSED EDGE OF PAVEMENT	6182.01'
42	1375076.50	3179957.21	37+83.55	22.80' RT	PROPOSED EDGE OF PAVEMENT	6182.23'
43	1375080.08	3179957.16	37+87.17	21.85' RT	PROPOSED EDGE OF PAVEMENT	6182.32'
44	1375079.44	3179970.25	37+86.50	35.61' RT	PROPOSED EDGE OF PAVEMENT	6183.65'
45	1375078.84	3179982.44	37+85.90	47.81' RT	PROPOSED EDGE OF PAVEMENT	6183.68'
46	1375064.14	3179982.37	37+71.19	47.73' RT	PROPOSED EDGE OF PAVEMENT	6183.30'
47	1375061.84	3179982.35	37+68.89	47.72' RT	PROPOSED EDGE OF PAVEMENT	6183.25'
48	1375003.85	3179982.05	37+10.90	47.42' RT	PROPOSED EDGE OF PAVEMENT	6181.95'
49	1374987.16	3179981.96	36+94.21	47.33' RT	PROPOSED EDGE OF PAVEMENT	6181.58'
50	1374983.74	3179981.95	36+90.80	47.31' RT	PROPOSED EDGE OF PAVEMENT	6181.49'
51	1374943.67	3179973.77	36+50.72	39.13' RT	PROPOSED EDGE OF PAVEMENT	6180.44'
52	1374942.49	3179973.62	36+49.55	38.98' RT	PROPOSED EDGE OF PAVEMENT	6180.41'
53	1374940.86	3179973.59	36+47.91	38.95' RT	PROPOSED EDGE OF PAVEMENT	6180.38'
54	1374925.53	3179974.52	36+32.59	39.88' RT	PROPOSED EDGE OF PAVEMENT	6180.05'
55	1374913.07	3179977.06	18+17.12	62.84' LT	PROPOSED EDGE OF PAVEMENT	6179.81'
56	1374904.81	3179979.96	18+20.02	54.58' LT	PROPOSED EDGE OF PAVEMENT	6179.58'
57	1374901.39	3179981.77	18+21.83	51.16' LT	PROPOSED EDGE OF PAVEMENT	6179.50'
58	1374896.56	3179985.15	18+25.21	46.32' LT	PROPOSED EDGE OF PAVEMENT	6179.54'
59	1374886.67	3179997.09	18+37.15	36.44' LT	PROPOSED EDGE OF PAVEMENT	6179.72'
60	1374880.80	3180012.23	18+52.29	30.57' LT	PROPOSED EDGE OF PAVEMENT	6180.21'
61	1374878.93	3180028.14	18+68.20	28.70' LT	PROPOSED EDGE OF PAVEMENT	6180.70'
62	1374879.03	3180036.29	18+76.35	28.80' LT	PROPOSED EDGE OF PAVEMENT	6181.02'
63	1374879.64	3180087.69	19+27.75	29.41' LT	PROPOSED EDGE OF PAVEMENT	6183.07'
64	1374879.90	3180109.04	19+49.10	29.66' LT	PROPOSED EDGE OF PAVEMENT	6183.96'
65	1374880.03	3180119.89	19+59.95	29.79' LT	PROPOSED EDGE OF PAVEMENT	6184.44'
66	1374880.55	3180163.57	20+03.63	30.31' LT	PROPOSED EDGE OF PAVEMENT	6186.22'
67	1374880.64	3180171.70	20+11.76	30.41' LT	PROPOSED EDGE OF PAVEMENT	6186.52'
68	1374881.07	3180174.94	20+15.00	30.83' LT	PROPOSED EDGE OF PAVEMENT	6186.63'

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Sheet Revisions

Date:	Comments	Init.

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No Revisions:
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31ST ST & FONTANERO ST
GRADING POINT TABLE
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number

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Know what's below. Call before you dig.

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
69	1374881.76	3180180.24	20+20.30	31.53' LT	PROPOSED EDGE OF PAVEMENT	6186.83'
70	1374883.50	3180193.48	20+33.54	33.26' LT	PROPOSED EDGE OF PAVEMENT	6187.34'
71	1374883.50	3180194.85	20+34.91	33.27' LT	PROPOSED EDGE OF PAVEMENT	6187.40'
72	1374883.56	3180204.27	20+44.33	33.33' LT	PROPOSED EDGE OF PAVEMENT	6187.79'
73	1374883.72	3180231.28	20+71.34	33.49' LT	PROPOSED EDGE OF PAVEMENT	6188.98'
74	1374883.80	3180244.67	20+84.74	33.57' LT	PROPOSED EDGE OF PAVEMENT	6189.55'
75	1374821.80	3180244.96	20+85.02	28.43' RT	PROPOSED EDGE OF PAVEMENT	6188.39'
76	1374821.78	3180239.34	20+79.40	28.46' RT	PROPOSED EDGE OF PAVEMENT	6188.14'
77	1374821.73	3180228.76	20+68.82	28.50' RT	PROPOSED EDGE OF PAVEMENT	6187.68'
78	1374821.72	3180227.29	20+67.35	28.51' RT	PROPOSED EDGE OF PAVEMENT	6187.62'
79	1374821.57	3180194.57	20+34.63	28.66' RT	PROPOSED EDGE OF PAVEMENT	6186.29'
80	1374824.79	3180170.65	20+10.71	25.44' RT	PROPOSED EDGE OF PAVEMENT	6185.56'
81	1374825.20	3180167.61	20+07.67	25.03' RT	PROPOSED EDGE OF PAVEMENT	6185.46'
82	1374828.20	3180145.33	19+85.39	22.03' RT	PROPOSED EDGE OF PAVEMENT	6184.81'
83	1374828.60	3180141.91	19+81.97	21.63' RT	PROPOSED EDGE OF PAVEMENT	6184.75'
84	1374828.88	3180130.00	19+70.07	21.36' RT	PROPOSED EDGE OF PAVEMENT	6184.41'
85	1374828.98	3180125.40	19+65.47	21.25' RT	PROPOSED EDGE OF PAVEMENT	6184.25'
86	1374829.00	3180124.48	19+64.54	21.23' RT	PROPOSED EDGE OF PAVEMENT	6184.20'
87	1374829.09	3180120.77	19+60.84	21.14' RT	PROPOSED EDGE OF PAVEMENT	6184.00'
88	1374831.01	3180037.31	18+77.37	19.22' RT	PROPOSED EDGE OF PAVEMENT	6179.57'
89	1374830.52	3180027.98	18+68.05	19.71' RT	PROPOSED EDGE OF PAVEMENT	6179.13'
90	1374829.77	3180023.51	18+63.57	20.46' RT	PROPOSED EDGE OF PAVEMENT	6179.00'
91	1374817.25	3179996.91	18+36.94	32.99' RT	PROPOSED EDGE OF PAVEMENT	6178.15'
92	1374815.76	3179995.13	18+35.20	34.48' RT	PROPOSED EDGE OF PAVEMENT	6178.08'
93	1374809.59	3179988.99	18+29.05	40.64' RT	PROPOSED EDGE OF PAVEMENT	6177.83'
94	1374800.23	3179982.30	18+22.37	50.01' RT	PROPOSED EDGE OF PAVEMENT	6177.53'
95	1374782.56	3179975.42	34+89.62	40.78' RT	PROPOSED EDGE OF PAVEMENT	6177.10'
96	1374772.72	3179973.99	34+79.78	39.35' RT	PROPOSED EDGE OF PAVEMENT	6176.88'
97	1374769.01	3179973.88	34+76.07	39.25' RT	PROPOSED EDGE OF PAVEMENT	6176.80'
98	1374766.35	3179973.94	34+73.41	39.30' RT	PROPOSED EDGE OF PAVEMENT	6176.72'
99	1374758.70	3179974.75	34+65.75	40.11' RT	PROPOSED EDGE OF PAVEMENT	6176.50'
100	1374690.83	3179980.82	33+97.31	46.15' RT	PROPOSED EDGE OF PAVEMENT	6174.50'
101	1374689.78	3179980.88	33+96.26	46.20' RT	PROPOSED EDGE OF PAVEMENT	6174.47'
102	1374679.84	3179981.44	33+86.31	46.64' RT	PROPOSED EDGE OF PAVEMENT	6174.19'

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
103	1374669.69	3179982.02	33+76.16	47.09' RT	PROPOSED EDGE OF PAVEMENT	6173.93'
104	1374656.90	3179982.75	33+63.36	47.65' RT	PROPOSED EDGE OF PAVEMENT	6173.58'
105	1374653.77	3179982.93	33+60.23	47.79' RT	PROPOSED EDGE OF PAVEMENT	6173.50'
106	1374635.91	3179983.94	33+42.35	48.59' RT	PROPOSED EDGE OF PAVEMENT	6173.00'
107	1374631.89	3179984.17	33+38.33	48.76' RT	PROPOSED EDGE OF PAVEMENT	6172.90'
108	1374591.87	3179986.44	32+98.29	50.53' RT	PROPOSED EDGE OF PAVEMENT	6171.88'
109	1374580.51	3179987.09	32+86.92	51.04' RT	PROPOSED EDGE OF PAVEMENT	6171.58'
110	1374575.70	3179987.19	32+82.11	51.09' RT	PROPOSED EDGE OF PAVEMENT	6171.46'
111	1374554.63	3179987.63	32+61.03	51.30' RT	PROPOSED EDGE OF PAVEMENT	6170.92'
112	1374554.34	3179975.00	32+60.90	38.63' RT	PROPOSED EDGE OF PAVEMENT	6170.98'
113	1374554.05	3179962.08	32+60.77	25.77' RT	PROPOSED EDGE OF PAVEMENT	6170.07'
114	1374559.08	3179962.08	32+65.80	25.71' RT	PROPOSED EDGE OF PAVEMENT	6170.20'
115	1374573.03	3179962.28	32+79.75	25.08' RT	PROPOSED EDGE OF PAVEMENT	6170.56'
116	1374578.64	3179962.44	32+85.35	25.96' RT	PROPOSED EDGE OF PAVEMENT	6170.72'
117	1374590.53	3179962.95	32+97.26	26.53' RT	PROPOSED EDGE OF PAVEMENT	6171.09'
118	1374591.87	3179963.03	32+98.59	26.62' RT	PROPOSED EDGE OF PAVEMENT	6171.13'
119	1374597.81	3179963.37	33+04.54	27.04' RT	PROPOSED EDGE OF PAVEMENT	6171.30'
120	1374636.67	3179967.01	33+43.32	31.67' RT	PROPOSED EDGE OF PAVEMENT	6172.30'
121	1374684.97	3179969.08	33+91.60	34.37' RT	PROPOSED EDGE OF PAVEMENT	6173.55'
122	1374699.30	3179968.19	34+06.36	33.56' RT	PROPOSED EDGE OF PAVEMENT	6174.04'
123	1374730.05	3179963.93	34+37.11	29.30' RT	PROPOSED EDGE OF PAVEMENT	6175.04'
124	1374749.24	3179959.60	34+56.30	24.97' RT	PROPOSED EDGE OF PAVEMENT	6175.64'
125	1374761.89	3179957.37	34+68.95	22.73' RT	PROPOSED EDGE OF PAVEMENT	6176.04'
126	1374770.20	3179957.02	34+77.26	22.38' RT	PROPOSED EDGE OF PAVEMENT	6176.30'
127	1374771.53	3179957.04	34+78.58	22.41' RT	PROPOSED EDGE OF PAVEMENT	6176.34'
128	1374784.96	3179958.54	34+92.02	23.91' RT	PROPOSED EDGE OF PAVEMENT	6176.76'
129	1374788.40	3179954.67	17+94.74	61.83' RT	PROPOSED EDGE OF PAVEMENT	6176.95'
130	1374787.52	3179951.71	17+91.77	62.72' RT	PROPOSED EDGE OF PAVEMENT	6177.02'
131	1374785.31	3179937.73	17+77.79	64.93' RT	PROPOSED EDGE OF PAVEMENT	6177.12'
132	1374785.25	3179936.26	17+76.32	64.98' RT	PROPOSED EDGE OF PAVEMENT	6177.09'
133	1374787.47	3179917.72	17+57.78	62.76' RT	PROPOSED EDGE OF PAVEMENT	6176.75'
134	1374787.45	3179915.04	17+55.10	62.78' RT	PROPOSED EDGE OF PAVEMENT	6176.70'
135	1374781.76	3179911.49	34+88.81	23.14' LT	PROPOSED EDGE OF PAVEMENT	6176.43'
136	1374768.15	3179912.69	34+75.20	21.95' LT	PROPOSED EDGE OF PAVEMENT	6175.94'

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Sheet Revisions

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31ST ST & FONTANERO ST
GRADING POINT TABLE
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 2 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number

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Know what's below. Call before you dig.

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
137	1374762.48	3179912.45	34+69.53	22.18' LT	PROPOSED EDGE OF PAVEMENT	6175.75'
138	1374739.08	3179911.53	34+46.14	23.10' LT	PROPOSED EDGE OF PAVEMENT	6174.95'
139	1374735.47	3179911.53	34+42.53	23.10' LT	PROPOSED EDGE OF PAVEMENT	6174.84'
140	1374712.30	3179912.68	34+19.36	21.96' LT	PROPOSED EDGE OF PAVEMENT	6174.12'
141	1374688.35	3179914.31	33+95.67	20.38' LT	PROPOSED EDGE OF PAVEMENT	6173.39'
142	1374682.53	3179914.57	33+89.84	20.20' LT	PROPOSED EDGE OF PAVEMENT	6173.26'
143	1374673.09	3179914.86	33+80.39	20.03' LT	PROPOSED EDGE OF PAVEMENT	6173.04'
144	1374662.40	3179915.10	33+69.70	19.92' LT	PROPOSED EDGE OF PAVEMENT	6172.79'
145	1374661.81	3179889.19	33+69.44	45.83' LT	PROPOSED EDGE OF PAVEMENT	6173.04'
146	1374667.63	3179889.06	33+75.26	45.94' LT	PROPOSED EDGE OF PAVEMENT	6173.19'
147	1374687.82	3179888.60	33+95.45	46.13' LT	PROPOSED EDGE OF PAVEMENT	6173.70'
148	1374689.86	3179888.56	33+97.49	46.12' LT	PROPOSED EDGE OF PAVEMENT	6173.75'
149	1374696.27	3179888.41	34+03.32	46.23' LT	PROPOSED EDGE OF PAVEMENT	6173.93'
150	1374734.78	3179887.53	34+41.83	47.10' LT	PROPOSED EDGE OF PAVEMENT	6174.84'
151	1374737.14	3179887.48	34+44.20	47.16' LT	PROPOSED EDGE OF PAVEMENT	6174.90'
152	1374742.32	3179889.02	34+49.37	45.62' LT	PROPOSED EDGE OF PAVEMENT	6175.03'
153	1374744.93	3179889.80	34+51.99	44.84' LT	PROPOSED EDGE OF PAVEMENT	6175.10'
154	1374766.57	3179896.25	34+73.62	38.39' LT	PROPOSED EDGE OF PAVEMENT	6175.65'
155	1374777.49	3179897.00	34+84.54	37.63' LT	PROPOSED EDGE OF PAVEMENT	6175.92'
156	1374782.79	3179895.94	34+89.84	38.69' LT	PROPOSED EDGE OF PAVEMENT	6176.06'
157	1374789.39	3179893.90	17+33.97	60.84' RT	PROPOSED EDGE OF PAVEMENT	6176.23'
158	1374816.00	3179874.24	17+14.30	34.24' RT	PROPOSED EDGE OF PAVEMENT	6176.75'
159	1374828.20	3179842.78	16+82.84	22.03' RT	PROPOSED EDGE OF PAVEMENT	6177.30'
160	1374828.06	3179831.17	16+71.23	22.17' RT	PROPOSED EDGE OF PAVEMENT	6177.42'
161	1374821.84	3179774.25	16+14.32	28.40' RT	PROPOSED EDGE OF PAVEMENT	6177.91'
162	1374821.69	3179761.34	16+01.40	28.54' RT	PROPOSED EDGE OF PAVEMENT	6178.01'
163	1374851.69	3179760.94	16+01.00	1.46' LT	PROPOSED EDGE OF PAVEMENT	6179.70'
164	1374875.63	3179760.62	16+00.68	25.40' LT	PROPOSED EDGE OF PAVEMENT	6179.33'
165	1374858.76	3179795.22	16+35.28	8.53' LT	PROPOSED EDGE OF PAVEMENT	6179.51'
166	1374850.08	3179818.98	16+59.04	0.16' RT	PROPOSED EDGE OF PAVEMENT	6178.62'
167	1374850.28	3179823.88	16+63.95	0.05' LT	PROPOSED EDGE OF PAVEMENT	6178.57'
168	1374851.11	3179844.01	16+84.07	0.87' LT	PROPOSED EDGE OF PAVEMENT	6178.36'
169	1374855.48	3179864.15	17+04.21	5.24' LT	PROPOSED EDGE OF PAVEMENT	6178.14'
170	1374851.68	3179869.65	17+09.71	1.45' LT	PROPOSED EDGE OF PAVEMENT	6177.98'

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
171	1374847.57	3179869.69	17+09.75	2.67' RT	PROPOSED EDGE OF PAVEMENT	6177.86'
172	1374843.46	3179869.99	17+10.05	6.77' RT	PROPOSED EDGE OF PAVEMENT	6177.77'
173	1374841.31	3179867.53	17+07.59	8.92' RT	PROPOSED EDGE OF PAVEMENT	6177.76'
174	1374842.55	3179855.01	16+95.08	7.68' RT	PROPOSED EDGE OF PAVEMENT	6177.88'
175	1374841.29	3179824.22	16+64.28	8.95' RT	PROPOSED EDGE OF PAVEMENT	6178.18'
176	1374841.08	3179819.35	16+59.41	9.15' RT	PROPOSED EDGE OF PAVEMENT	6178.19'
177	1374845.48	3179814.65	16+54.71	4.75' RT	PROPOSED EDGE OF PAVEMENT	6178.46'
178	1374870.94	3179893.00	17+33.06	20.71' LT	PROPOSED EDGE OF PAVEMENT	6179.06'
179	1374893.41	3179917.38	17+57.44	43.18' LT	PROPOSED EDGE OF PAVEMENT	6180.03'
180	1374895.85	3179943.66	17+83.72	45.62' LT	PROPOSED EDGE OF PAVEMENT	6180.50'
181	1374881.10	3179969.41	18+09.48	30.87' LT	PROPOSED EDGE OF PAVEMENT	6180.18'
182	1374877.43	3179972.35	18+12.41	27.20' LT	PROPOSED EDGE OF PAVEMENT	6180.12'
183	1374868.25	3179977.50	18+17.56	18.02' LT	PROPOSED EDGE OF PAVEMENT	6179.99'
184	1374850.23	3179981.13	18+21.20	00.00' RT	PROPOSED EDGE OF PAVEMENT	6179.17'
185	1374819.17	3179969.24	18+09.30	31.06' RT	PROPOSED EDGE OF PAVEMENT	6177.88'
186	1374804.63	3179943.74	17+83.80	45.60' RT	PROPOSED EDGE OF PAVEMENT	6177.41'
187	1374803.74	3179935.46	17+75.52	46.49' RT	PROPOSED EDGE OF PAVEMENT	6177.42'
188	1374805.86	3179920.73	17+60.79	44.37' RT	PROPOSED EDGE OF PAVEMENT	6177.20'
189	1374814.20	3179905.25	17+45.31	36.04' RT	PROPOSED EDGE OF PAVEMENT	6177.18'
190	1374833.16	3179891.38	17+31.45	17.08' RT	PROPOSED EDGE OF PAVEMENT	6177.66'
191	1374846.53	3179888.28	17+28.35	3.70' RT	PROPOSED EDGE OF PAVEMENT	6178.07'
192	1374866.49	3179999.33	18+39.39	16.25' LT	PROPOSED EDGE OF PAVEMENT	6180.01'
193	1374866.51	3180000.73	18+40.80	16.28' LT	PROPOSED EDGE OF PAVEMENT	6180.04'
194	1374861.94	3180028.68	18+68.74	11.71' LT	PROPOSED EDGE OF PAVEMENT	6180.99'
195	1374863.28	3180042.32	18+82.38	13.05' LT	PROPOSED EDGE OF PAVEMENT	6181.45'
196	1374866.61	3180077.74	19+17.80	16.78' LT	PROPOSED EDGE OF PAVEMENT	6182.98'
196a	1374867.08	3180179.73	20+19.79	16.85' LT	PROPOSED EDGE OF PAVEMENT	6187.15'
197	1374860.20	3180232.70	20+72.76	9.96' LT	PROPOSED EDGE OF PAVEMENT	6189.47'
198	1374853.63	3180244.16	20+84.22	2.42' LT	PROPOSED EDGE OF PAVEMENT	6189.63'
199	1374848.40	3180231.14	20+71.20	1.83' RT	PROPOSED EDGE OF PAVEMENT	6189.31'
200	1374848.36	3180180.65	20+20.71	1.88' RT	PROPOSED EDGE OF PAVEMENT	6187.35'
201	1374847.11	3180140.87	19+80.93	3.13' RT	PROPOSED EDGE OF PAVEMENT	6185.75'
202	1374846.43	3180106.28	19+46.34	3.80' RT	PROPOSED EDGE OF PAVEMENT	6184.33'
203	1374852.67	3180044.81	18+84.87	2.44' LT	PROPOSED EDGE OF PAVEMENT	6181.26'

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File Name: 23916GEC_01-04_Pn.dgn
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No Revisions:
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31ST ST & FONTANERO ST
GRADING POINT TABLE
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 3 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number

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31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
204	1374848.44	3180005.13	18+45.20	1.80' RT	PROPOSED EDGE OF PAVEMENT	6179.36'
205	1374852.02	3179999.61	18+39.67	1.79' LT	PROPOSED EDGE OF PAVEMENT	6179.45'
206	1374858.15	3179999.15	18+39.21	7.91' LT	PROPOSED EDGE OF PAVEMENT	6179.70'
207	1374864.20	3179998.12	18+38.18	13.96' LT	PROPOSED EDGE OF PAVEMENT	6179.94'
208	1374867.49	3179987.04	18+27.10	17.26' LT	PROPOSED EDGE OF PAVEMENT	6180.00'
209	1374893.01	3179971.63	18+11.70	42.78' LT	PROPOSED EDGE OF PAVEMENT	6179.98'
210	1374905.62	3179968.65	18+08.71	55.39' LT	PROPOSED EDGE OF PAVEMENT	6179.97'
211	1375064.62	3179961.99	37+71.68	27.36' RT	PROPOSED EDGE OF PAVEMENT	6182.50'
212	1375064.45	3179969.46	37+71.50	34.82' RT	PROPOSED EDGE OF PAVEMENT	6183.20'
213	1375064.34	3179973.74	37+71.40	39.10' RT	PROPOSED EDGE OF PAVEMENT	6183.28'
214	1375071.23	3179969.81	37+78.28	35.18' RT	PROPOSED EDGE OF PAVEMENT	6183.40'
215	1375024.74	3179891.46	37+31.79	43.18' LT	PROPOSED EDGE OF PAVEMENT	6181.99'
216	1375026.79	3179897.80	37+33.85	36.84' LT	PROPOSED EDGE OF PAVEMENT	6182.00'
217	1375049.31	3179903.91	37+56.37	30.73' LT	PROPOSED EDGE OF PAVEMENT	6181.28'
218	1374731.54	3179900.00	34+38.59	34.63' LT	PROPOSED EDGE OF PAVEMENT	6175.20'
219	1374713.08	3179900.62	34+20.13	34.01' LT	PROPOSED EDGE OF PAVEMENT	6174.72'
220	1374688.09	3179901.47	33+95.56	33.23' LT	PROPOSED EDGE OF PAVEMENT	6174.08'
221	1374591.87	3179973.77	32+98.45	37.86' RT	PROPOSED EDGE OF PAVEMENT	6171.91'
222	1374573.11	3179974.39	32+79.68	38.25' RT	PROPOSED EDGE OF PAVEMENT	6171.47'
223	1374630.78	3179977.89	33+37.30	42.47' RT	PROPOSED EDGE OF PAVEMENT	6172.62'

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31ST ST & FONTANERO ST
GRADING POINT TABLE
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 4 of 13

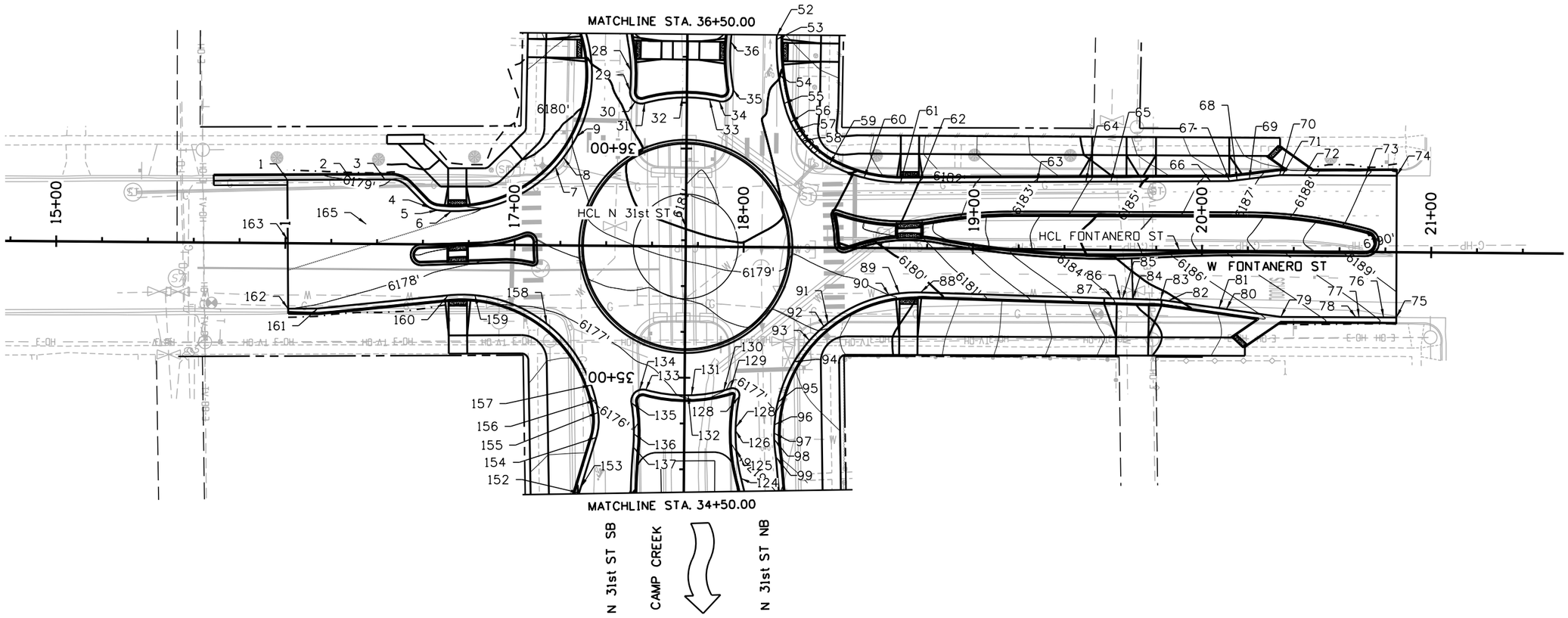
Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number

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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



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31ST ST & FONTANERO ST
GRADING PLAN
ROADWAY

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	GRADE	Subset Sheets: 5 of 13	

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number

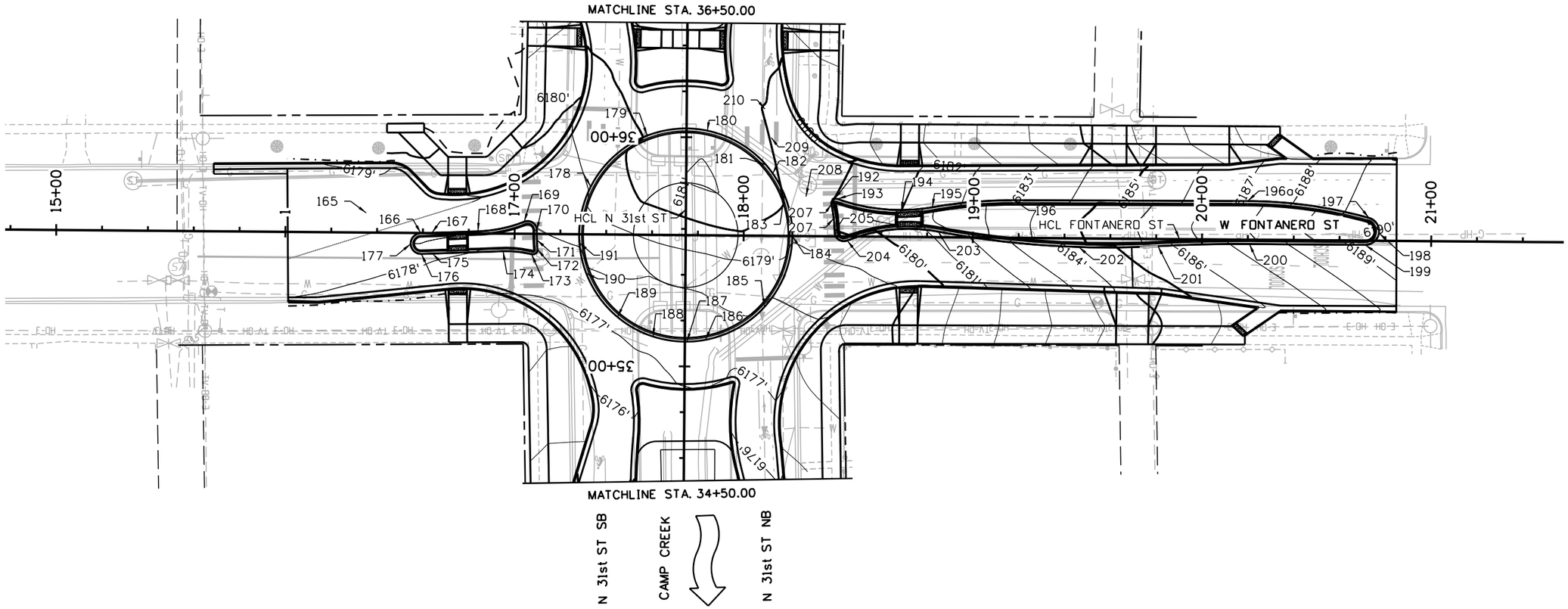
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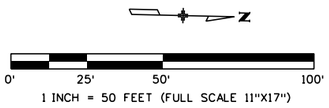
31ST ST & FONTANERO ST GRADING PLAN ROADWAY

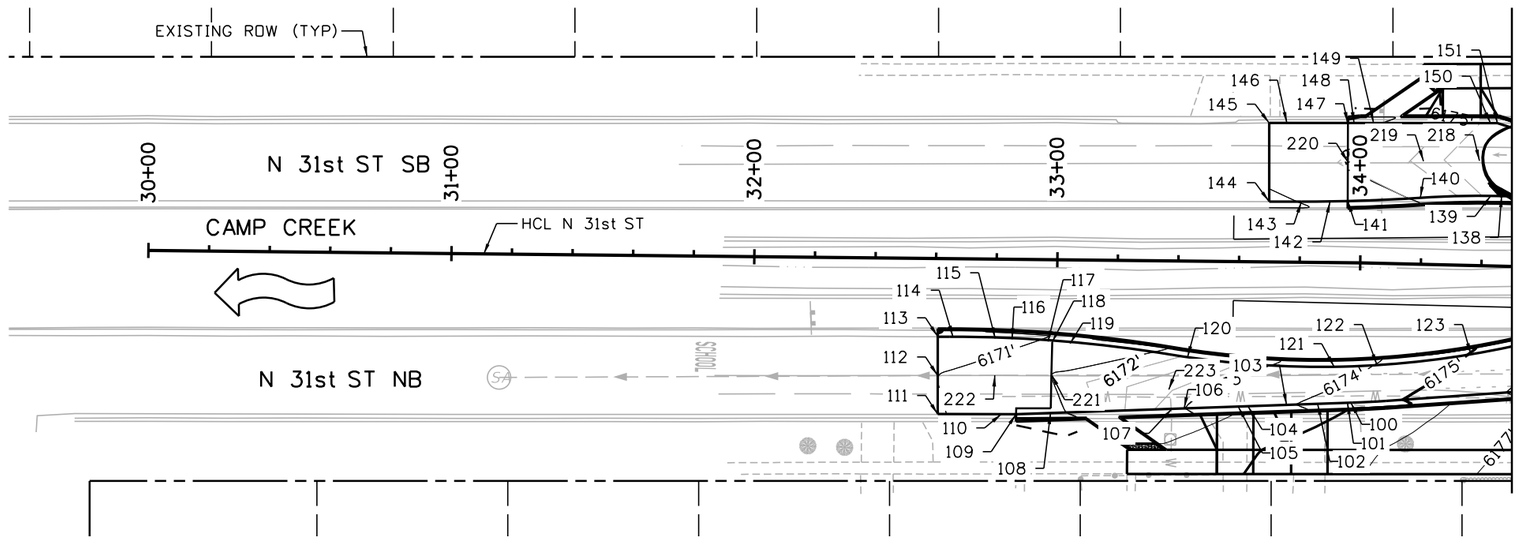
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Detailer:	BKM		
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Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number

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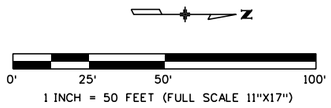


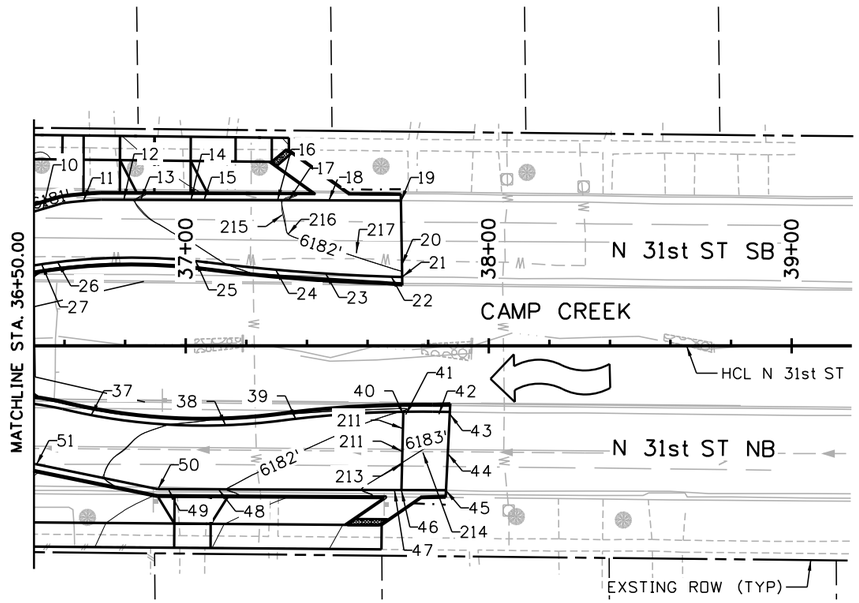


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File Name: 23916GEC_01-08_Pn.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:			Project #STM-REV25-0629
Horiz. Scale: 1:50	Vert. Scale:						Revised:	Designer: JDM	Structure Numbers: CSG-E.00-10.57A	Bid #__-__
Unit Information	Unit Leader							Detailer: BKM		
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31ST ST & FONTANERO ST
GRADING PLAN
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 8 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number

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31ST AND FONTANERO GRADING PLAN - SIDEWALK POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
300a	1374850.23	3179820.07	16+60.13	47.83' LT	PROPOSED SIDEWALK	6180.72'
300b	1374850.23	3179803.86	16+43.93	47.54' LT	PROPOSED SIDEWALK	6180.76'
300c	1374850.23	3179803.90	16+73.96	43.67' LT	PROPOSED SIDEWALK	6180.72'
300	1374893.95	3179808.90	16+48.96	43.72' LT	PROPOSED SIDEWALK	6180.58'
301	1374894.06	3179820.10	16+60.17	43.83' LT	PROPOSED SIDEWALK	6180.71'
302	1374883.46	3179830.70	16+70.77	33.23' LT	PROPOSED SIDEWALK	6179.61'
303	1374883.60	3179847.66	16+86.50	33.35l LT	PROPOSED SIDEWALK	6179.45'
303a	3179934.64	3179848.56	16+88.63	34.26' LT	PROPOSED SIDEWALK	6179.43'
303b	1374850.23	3179860.37	17+00.43	46.02' LT	PROPOSED SIDEWALK	6180.19'
304	1374900.40	3179864.52	17+04.60	51.39' LT	PROPOSED SIDEWALK	6180.45'
304a	1374932.25	3179864.90	36+39.30	69.73' LT	PROPOSED SIDEWALK	6181.30'
304b	1374940.25	3179865.00	36+47.30	69.63' LT	PROPOSED SIDEWALK	6181.36'
305	1375026.99	3179866.03	37+34.05	68.60' LT	PROPOSED SIDEWALK	6183.03'
306	1375026.94	3179869.96	37+34.00	64.68' LT	PROPOSED SIDEWALK	6182.97'
306a	1375046.57	3179884.67	37+53.63	49.963' LT	PROPOSED BIKE RAMP	6182.34'
306b	1375035.72	3179884.36	37+42.78	50.00' LT	PROPOSED BIKE RAMP	6182.09'
307	1375021.38	3179873.97	37+28.43	60.67' LT	PROPOSED SIDEWALK	6182.84'
307a	1379934.64	3179873.00	36+47.24	61.64' LT	PROPOSED SIDEWALK	6181.32'
307B	1374932.19	3179872.90	36+39.24	61.72' LT	PROPOSED SIDEWALK	6181.26'
308	1374900.30	3179872.52	17+12.60	51.29' LT	PROPOSED SIDEWALK	6179.54'
308a	1374893.86	317869.30	17+09.36	43.629' LT	PROPOSED SIDEWALK	6180.24'
308b	1374850.23	3179865.98	17+06.04	40.32' LT	PROPOSED SIDEWALK	6179.31'
309	1374875.60	3179847.73	16+86.57	25.35' LT	PROPOSED SIDEWALK	6179.41'
310	1374875.43	3179827.42	16+67.48	25.20' LT	PROPOSED SIDEWALK	6179.68'
311	1375057.59	3179993.85	37+64.65	59.22' RT	PROPOSED SIDEWALK	6184.33'
311a	1375059.22	3179984.34	37+66.27	49.71' RT	PROPOSED BIKE RAMP	6183.07'
311b	1375070.44	3179984.40	37+77.49	49.77' RT	PROPOSED BIKE RAMP	6183.34'
311c	1375046.26	3179993.76	37+53.32	59.13' RT	PROPOSED SIDEWALK	6184.04'
312	1375057.53	3180001.85	37+64.59	67.22' RT	PROPOSED SIDEWALK	6184.45'
312a	1375001.10	3180001.41	37+08.16	66.82' RT	PROPOSED SIDEWALK	6182.91'
312b	1374989.11	3180001.31	36+96.16	66.68' RT	PROPOSED SIDEWALK	6182.58'
312c	1374939.29	3180000.92	36+46.35	66.28' RT	PROPOSED SIDEWALK	6181.22'
312d	1374931.24	3180000.86	36+38.30	66.27' RT	PROPOSED SIDEWALK	6181.10'
313	1374911.05	3180000.70	18+40.76	60.82' LT	PROPOSED SIDEWALK	6180.82'

31ST AND FONTANERO GRADING PLAN - SIDEWALK POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
314	1374906.86	3180000.33	18+40.39	56.63' LT	PROPOSED SIDEWALK	6180.66'
315	1374902.05	3179999.92	18+39.98	51.82' LT	PROPOSED SIDEWALK	6180.47'
316	1374898.81	3180003.16	18+43.22	48.57' LT	PROPOSED SIDEWALK	6180.39'
317	1374899.34	3180009.43	18+49.49	49.10' LT	PROPOSED SIDEWALK	6180.69'
317a	1374899.38	3180028.12	18+68.18	49.14' LT	PROPOSED SIDEWALK	6181.54'
317b	1374899.40	3180036.16	18+76.23	49.16' LT	PROPOSED SIDEWALK	6181.63'
317c	1374899.57	3180111.59	19+51.65	49.33' LT	PROPOSED DRIVEWAY	6185.21'
317d	1374899.60	3180126.59	19+66.65	49.37' LT	PROPOSED DRIVEWAY	6185.87'
317e	1374899.63	3180139.45	19+79.51	49.40' LT	PROPOSED DRIVEWAY	6186.44'
317f	1374899.70	3180171.45	20+11.51	49.47' LT	PROPOSED DRIVEWAY	6187.86'
318	1374899.75	3180193.58	20+33.64	49.52' LT	PROPOSED SIDEWALK	6188.83'
319	1374896.11	3180193.59	20+33.65	45.88' LT	PROPOSED SIDEWALK	6188.78'
319a	1374885.52	3180207.91	20+47.97	35.29' LT	PROPOSED BIKE RAMP	6187.82'
319b	1374885.50	3180196.68	20+36.75	35.27' LT	PROPOSED BIKE RAMP	6187.35'
320	1374891.74	3180188.49	20+28.55	41.51' LT	PROPOSED SIDEWALK	6188.45'
320a	1374891.70	3180171.50	20+11.56	41.48' LT	PROPOSED DRIVEWAY	6187.70'
320b	1374891.63	3180139.50	19+79.56	41.38' LT	PROPOSED DRIVEWAY	6186.36'
320c	1374891.60	3180126.64	19+66.70	41.37' LT	PROPOSED DRIVEWAY	6185.75'
320d	1374891.57	3180111.64	19+51.70	41.33' LT	PROPOSED DRIVEWAY	6185.09'
320e	1374891.40	3180036.12	18+76.18	41.16' LT	PROPOSED SIDEWALK	6181.53'
320f	1374891.38	3180028.12	18+68.18	41.14' LT	PROPOSED SIDEWALK	6181.35'
321	1374891.34	3180009.78	18+49.84	41.10' LT	PROPOSED SIDEWALK	6180.79'
322	1374890.83	3180003.83	18+43.89	40.60' LT	PROPOSED SIDEWALK	6180.56'
323	1374902.75	3179991.95	18+32.01	52.51' LT	PROPOSED SIDEWALK	6180.09'
324	1374911.43	3179992.70	18+32.76	61.20' LT	PROPOSED SIDEWALK	6180.59'
324a	1374931.30	3179992.86	18+32.92	81.07' LT	PROPOSED SIDEWALK	6181.22'
324b	1374939.30	3179992.92	18+32.98	89.07' LT	PROPOSED SIDEWALK	6181.34'
324c	1374989.16	3179993.31	18+33.37	138.93' LT	PROPOSED DRIVEWAY	6182.60'
324d	1375001.16	3179993.32	18+33.39	150.93' LT	PROPOSED DRIVEWAY	6182.91'
325	1374808.32	3180178.99	20+19.05	41.92' RT	PROPOSED SIDEWALK	6186.52'
326	1374804.50	3180179.01	20+19.07	45.73' RT	PROPOSED SIDEWALK	6186.58'
327	1374803.52	3180004.97	18+45.03	46.71' RT	PROPOSED SIDEWALK	6179.00'
328	1374799.58	3180002.01	18+42.07	50.65' RT	PROPOSED SIDEWALK	6178.92'
329	1374617.56	3180006.00	33+23.73	70.41' RT	PROPOSED SIDEWALK	6174.45'

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31ST ST & FONTANERO ST
GRADING POINT TABLE
SIDEWALK

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 9 of 13

Project No./Code
Project #STM-REV25-0629
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31ST AND FONTANERO GRADING PLAN - SIDEWALK POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
330	1374617.38	3179998.00	33+23.65	62.41' RT	PROPOSED SIDEWALK	6174.33'
330a	1374603.15	3179987.77	33+10.20	52.01' RT	PROPOSED BIKE RAMP	6172.32'
330b	1374616.77	3179987.17	33+20.82	51.54' RT	PROPOSED BIKE RAMP	6172.05'
331	1374630.39	3179997.72	33+36.67	62.29' RT	PROPOSED SIDEWALK	6174.17'
332	1374800.28	3179993.99	18+34.05	49.96' RT	PROPOSED SIDEWALK	6178.58'
333	1374811.52	3180004.92	18+44.99	38.71' RT	PROPOSED SIDEWALK	6179.12'
334	1374812.47	3180172.70	20+12.76	37.77' RT	PROPOSED SIDEWALK	6186.16'
334a	1374820.85	3180184.96	20+25.02	29.39' RT	PROPOSED BIKE RAMP	6185.88'
334b	1379934.64	3180194.29	20+34.35	30.64' RT	PROPOSED BIKE RAMP	6166.16'
335	1374718.00	3179876.41	34+25.06	58.23' LT	PROPOSED SIDEWALK	6175.00'
335a	3179934.64	3179886.21	34+12.22	48.43' LT	PROPOSED BIKE RAMP	6174.03'
335b	3179934.66	3179886.46	34+00.94	48.17' LT	PROPOSED BIKE RAMP	6173.76'
336	1374712.46	3179872.39	34+19.52	62.24' LT	PROPOSED SIDEWALK	6174.98'
337	1374712.37	3179868.54	34+19.42	66.09' LT	PROPOSED SIDEWALK	6175.06'
337a	1374718.70	3179868.39	34+25.76	66.24' LT	PROPOSED DRIVEWAY	6175.22'
337b	1374731.21	3179868.08	34+38.26	66.56' LT	PROPOSED DRIVEWAY	6175.53'
338	1374800.00	3179866.37	17+06.43	50.24' RT	PROPOSED SIDEWALK	6177.26'
339	1374802.92	3179863.33	17+03.39	47.31' RT	PROPOSED SIDEWALK	6177.34'
339a	1374802.64	3179839.65	16+79.73	47.59' RT	PROPOSED SIDEWALK	6177.83'
340	1374802.55	3179831.65	16+71.72	47.69' RT	PROPOSED SIDEWALK	6177.97'
341	1374810.55	3179831.56	16+71.62	39.69' RT	PROPOSED SIDEWALK	6177.88'
341a	1374850.23	3179934.64	16+79.62	39.59' RT	PROPOSED SIDEWALK	6177.76'
342	1374810.92	3179863.24	17+03.30	39.31' RT	PROPOSED SIDEWALK	6177.41'
343	1374800.19	3179874.36	17+14.43	50.04' RT	PROPOSED SIDEWALK	6177.10'
343a	1374731.38	3179876.07	17+16.14	118.85' RT	PROPOSED SIDEWALK	6177.10'

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31ST ST & FONTANERO ST
GRADING POINT TABLE
SIDEWALK

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 10 of 13

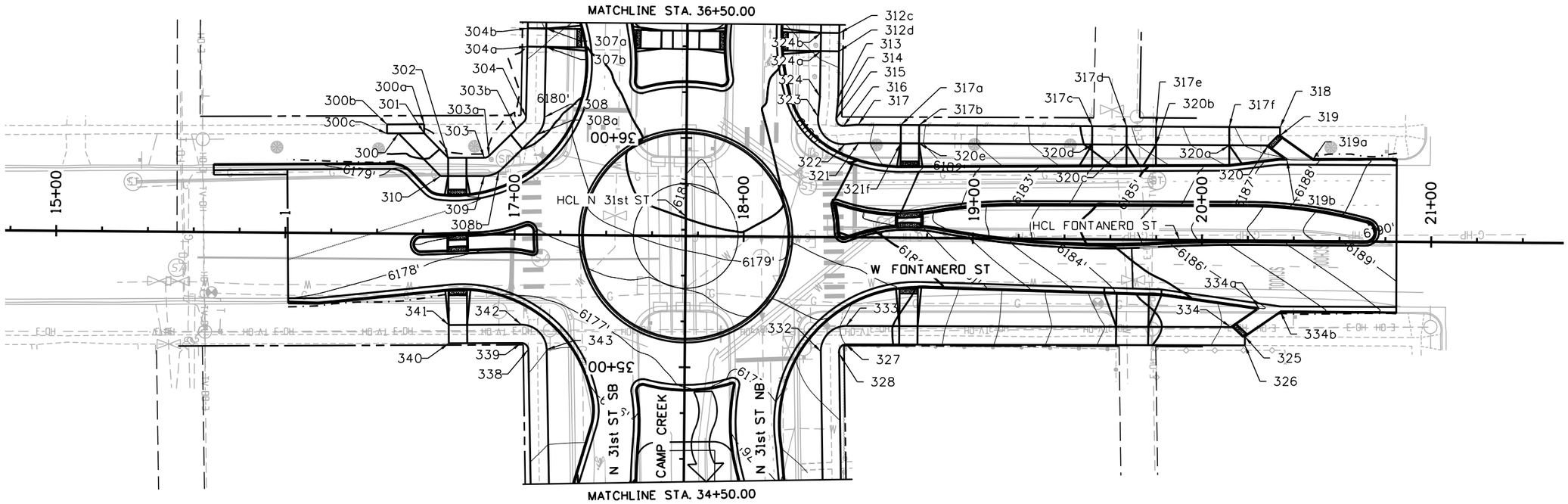
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Project #STM-REV25-0629
Bid #__-__
Sheet Number

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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



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Unit Information	Unit Leader						Detailer: BKM	
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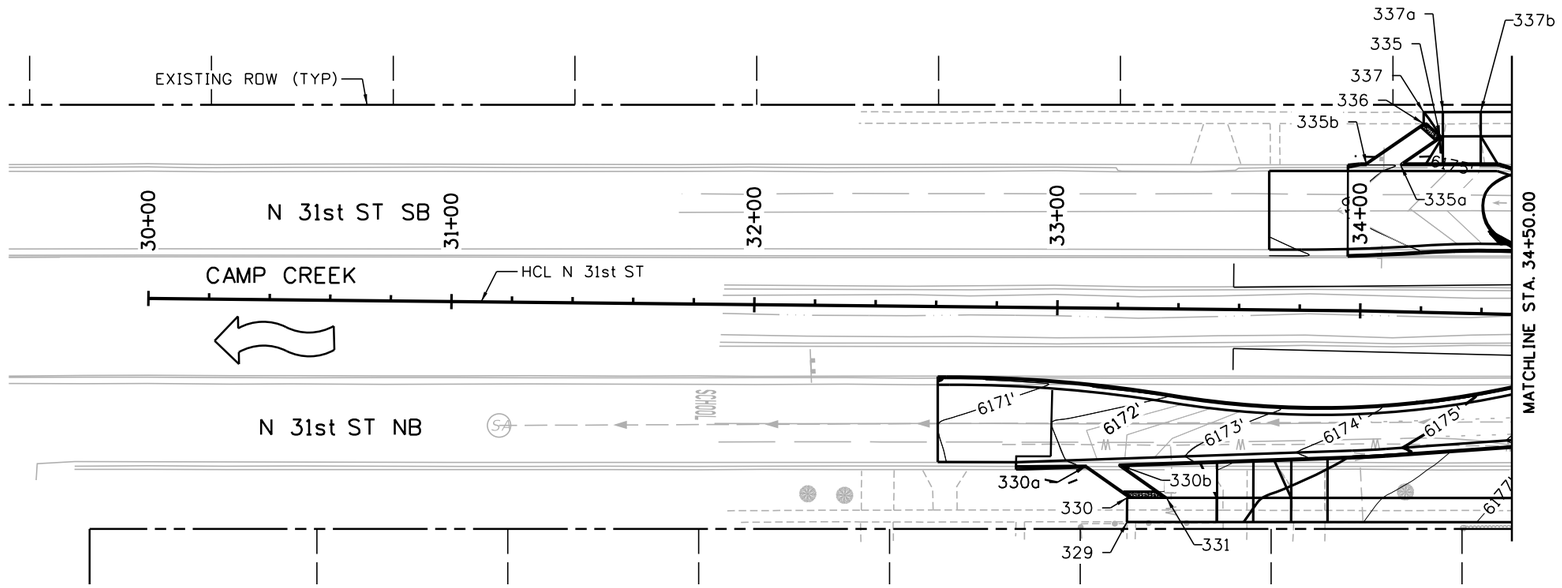
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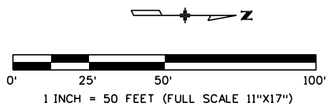
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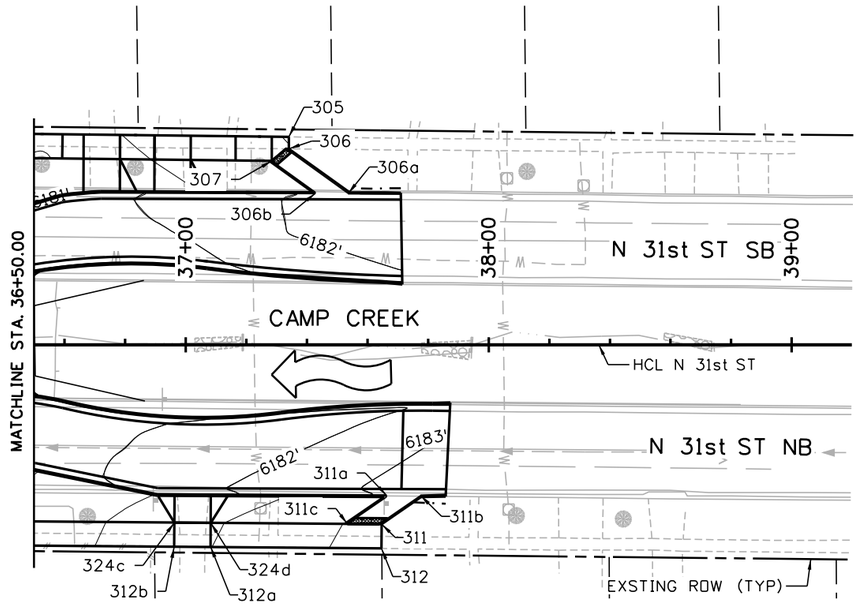
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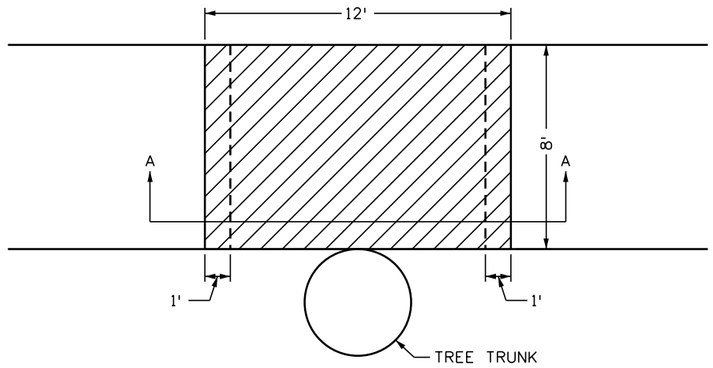
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GRADING PLAN
SIDEWALK

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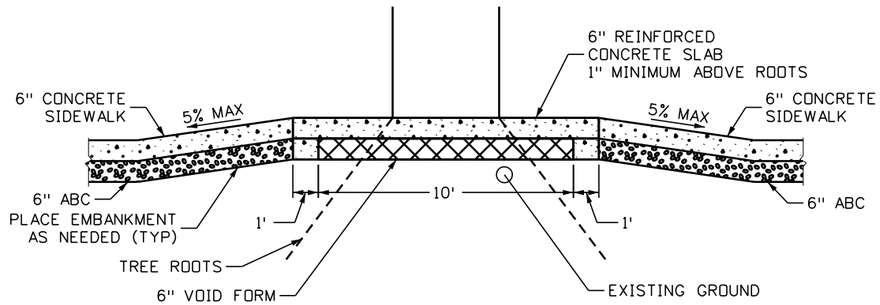
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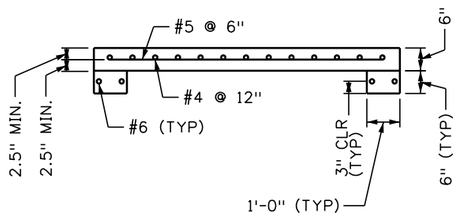
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SIDEWALK BRIDGE PLAN
(N.T.S.)



SIDEWALK BRIDGE ELEVATION
(N.T.S.)



SIDEWALK BRIDGE
SECTION A-A
(N.T.S.)

NOTES:

1. ALL MEMBERS SHALL BE PAID AS ITEM 600-03001 CLASS D CONCRETE (SPECIAL). PER EACH.
2. REINFORCED STEEL SHALL BE ASTM A615 GRADE 60 AND SHALL BE INCLUDED IN ITEM 600-03001
3. 6" VOID FORM SHALL NOT BE PAID FOR SEPARATELY.

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31ST ST & FONTANERO ST
SIDEWALK BRIDGE DETAIL

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Detailer:	BKM		
Sheet Subset:	DETAIL	Subset Sheets: 1 of 7	

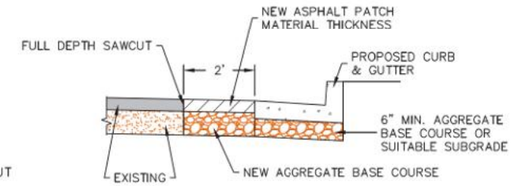
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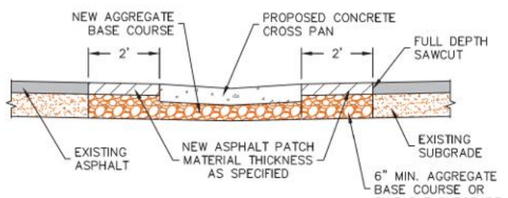
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General Notes:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT CITY OF COLORADO SPRINGS ENGINEERING DIVISION (THE CITY) STANDARD SPECIFICATIONS.
2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS. FOR CITY PERMITS CONTRACTORS SHALL USE THE ACCELA ON-LINE PERMIT SYSTEM. ONCE CITY PERMITS ARE APPROVED AND PAID, THEN APPROPRIATE SCHEDULING AND NOTIFICATIONS SHALL BE IN ACCELA.
3. PRIOR TO CUTTING INTO A ROADWAY, A MEETING IS REQUIRED WITH CITY ENGINEERING.
4. HOT MIX ASPHALT (ASPHALT PAVING MATERIAL) SHALL MEET THE REQUIREMENTS OF THE PIKES PEAK ASPHALT SPECIFICATION AND BE AN APPROVED CITY MIX.
5. EXISTING PAVEMENT MAY BE INITIALLY ROUGH CUT. A SQUARE, VERTICAL CUT SHALL BE MADE IN THE EXISTING ASPHALT PAVEMENT PRIOR TO PAVEMENT PLACEMENT.
6. NEW ASPHALT SHALL NOT BE PLACED AGAINST FRESHLY POURED CONCRETE. CONCRETE SHALL BE 5-DAYS OLD OR HAVE REACHED A COMPRESSIVE STRENGTH OF 3,200 PSI AS DEMONSTRATED BY FIELD CURE CYLINDERS.
7. A TACK COAT SHALL BE APPLIED TO ALL VERTICAL EDGES INCLUDING CONCRETE EDGES. THE TACK COAT SHALL HAVE 100% COVERAGE AND BE APPLIED BETWEEN LIFTS.
8. NEW ASPHALT PATCH SHALL BE PLACED ON COMPACTED AGGREGATE BASE COURSE PER CITY STANDARDS OR CTS.
9. THE NEW PAVEMENT SECTION SHALL MATCH EXISTING PAVEMENT REPORT. FOR ROADWAYS WHERE THE SUBGRADE IS CHEMICALLY TREATED (CTS), CTS OR FLOW-FILL SHALL BE EQUIVALENT TO THE REQUIREMENT IN THE PAVEMENT DESIGN REPORT. A MINIMUM PAVEMENT SECTION OF:
   A) RESIDENTIAL/COLLECTOR...6-INCHES OF CLASS 6 AGGREGATE BASE COURSE WITH 6-INCHES OF ASPHALT PAVING MATERIAL;
   B) ARTERIAL...12-INCHES OF CLASS 6 AGGREGATE BASE COURSE WITH 8-INCHES OF ASPHALT PAVING MATERIAL.
10. ALTERNATE REPAIR SECTIONS MAY BE APPROVED PROVIDED THEY ARE COMPLETED BY THE PAVEMENT DESIGN GEOTECHNICAL ENGINEER AND APPROVED BY CITY ENGINEERING.
11. IF A PLATE TAMPER IS USED FOR COMPACTION OF ASPHALT, THE MAXIMUM LOOSE LIFT THICKNESS SHALL BE 2-INCHES.
12. ANY DISTURBED PAVEMENT MARKINGS SHALL BE RESTORED TO CITY STANDARDS.
13. THESE DETAILS ARE FOR PAVEMENT CUTS LESS THAN 200-SF. CUTS GREATER THAN 200-SF SHALL BE IN CONFORMANCE WITH AN ENGINEERED DESIGN.
14. CLSM (FLOW-FILL) IS REQUIRED AS BACKFILL FOR TRENCHES LESS THAN 1-FOOT IN WIDTH AND ALL CORES. CLSM SHALL NOT EXTEND INTO PAVEMENT SECTION.
15. WHERE CONCRETE PAVEMENT EXISTS BELOW THE ASPHALT, NEW CONCRETE SHALL BE PLACED TO MATCH THE EXISTING CONCRETE THICKNESS.
16. NEW HOT-MIX ASPHALT (ASPHALT PAVING MATERIAL) SHALL BE FLUSH TO EXISTING ASPHALT AND CONCRETE EDGES AND SHALL NOT HAVE HUMPS OR VALLEYS.



CURB & GUTTER REPLACEMENT
PAVEMENT REPAIR DETAIL



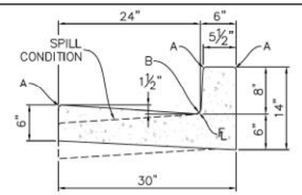
PAVEMENT REPAIR DETAIL
AT CROSS PAN

COLORADO SPRINGS

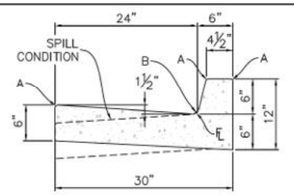
ASPHALT PAVEMENT REPAIR ADJACENT TO NEW CONCRETE GENERAL NOTES & DETAILS

APPROVED: Gayle Sturdivant, CITY ENGINEER

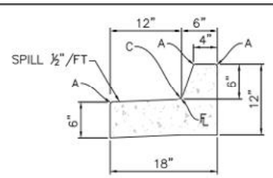
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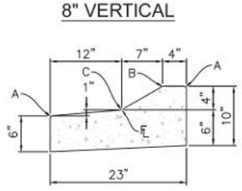
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8" VERTICAL



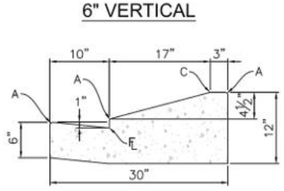
TYPE 2
6" VERTICAL



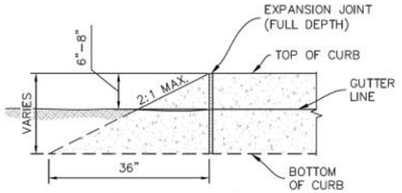
TYPE 3
STANDARD MEDIAN



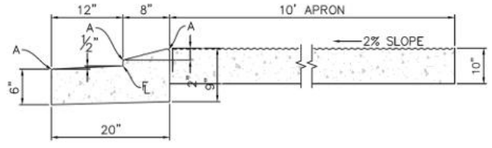
TYPE 4
MOUNTABLE



TYPE 5
RESIDENTIAL CURB & GUTTER ONLY



CURB ENDING



ROUNDABOUT APRON

NOTE:
TYPE 1 AND 2 SPILL GUTTER MUST BE APPROVED BY CITY ENGINEERING.
TYPE 5 IS CARRY CURB ONLY.

RADII LEGEND	
A	¼"-½"
B	1½"
C	1½"-2"

COLORADO SPRINGS

CURB & GUTTER DETAILS

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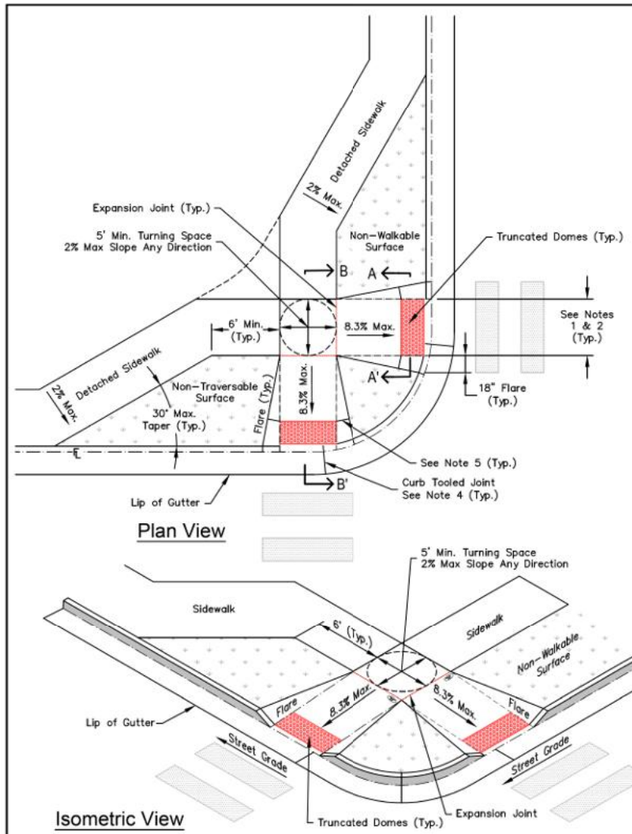
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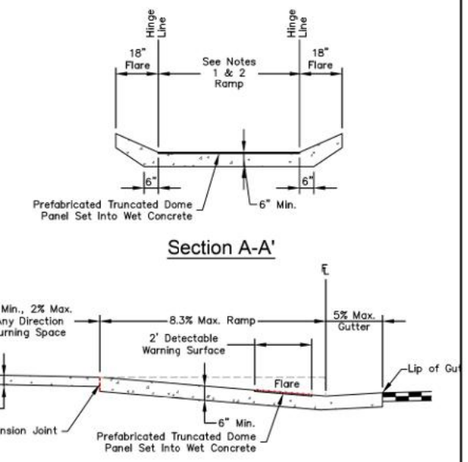
31ST ST & FONTANERO ST DETAILS

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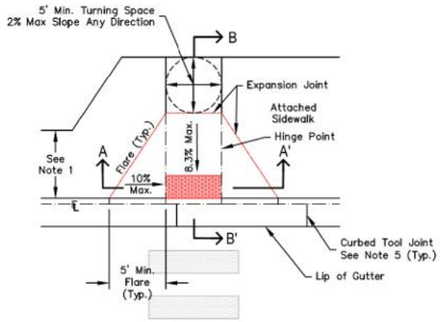


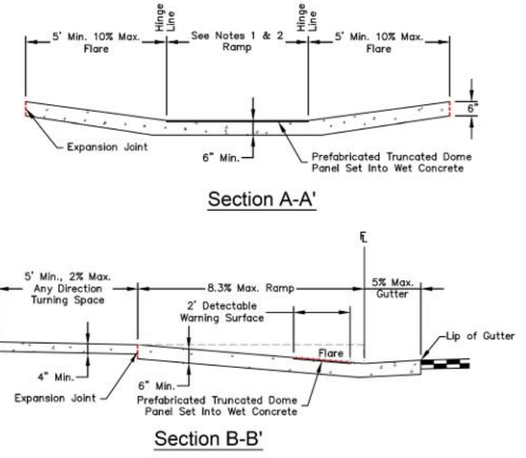


Notes:

1. Attached sidewalk shall be a minimum of 6–feet wide. Detached sidewalks shall be 5–feet wide minimum. Sidewalk width and turning space (TS) may be reduced to 4–feet in retrofit applications.
2. Ramp width shall be the same as the approaching sidewalk or TS, but not less than 4–feet. Ramp cross slope shall evenly transition between landing grade and street grade.
3. Sidewalk cross slope shall be 2% maximum measured perpendicular to the direction of walk for detached sidewalk and perpendicular to the curb for attached sidewalks.
4. Curb tooled joints shall be laid out so that at least one joint occurs within the width of each ramp.
5. Tooled joints shall be constructed through the flare at the top of the detectable warning surface.
6. The path of travel needs to stay uniform throughout the ramp.
7. The ramp width shall not vary by more than 1–inch from hinge line to hinge line.

COLORADO SPRINGS	PEDESTRIAN CURB RAMPS TYPE 1 CURB RAMP		
	APPROVED: CITY ENGINEER		
	ISSUED: 4/18/2025	REVISED:	DRAWING NO. 8–B





Notes:

1. Attached sidewalk shall be 6–feet wide minimum. Detached sidewalks shall be 5–feet wide minimum. Sidewalk width may be reduced to 4–feet in retrofit applications.
2. Ramp width shall be the same as the approaching sidewalk or TS, but not less than 4–feet. Ramp cross slope shall evenly transition between landing grade and street grade.
3. Sidewalk cross slope shall be 2% maximum measured perpendicular to the direction of the sidewalk for detached sidewalks and perpendicular to the curb for attached sidewalks.
4. All detectable warning shall be placed as in note 9 of the General Notes.
5. Curb tooled joints shall be laid out so that at least one joint occurs within the width of the ramp.

COLORADO SPRINGS	PEDESTRIAN CURB RAMPS TYPE 2 CURB RAMP		
	APPROVED: CITY ENGINEER		
	ISSUED: 4/18/2025	REVISED:	DRAWING NO. 8–D

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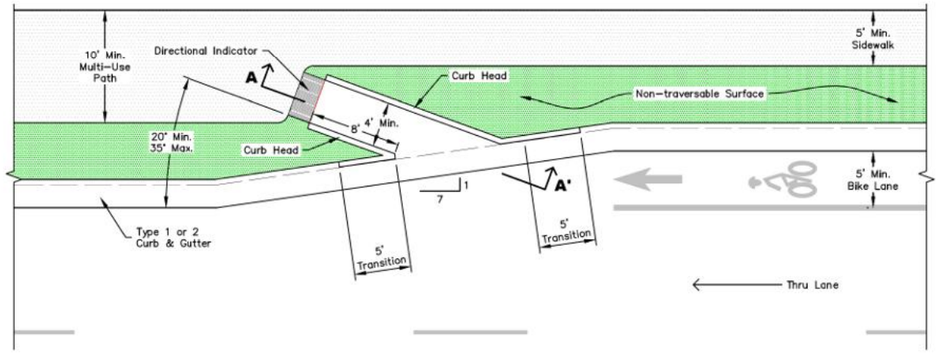
31ST ST & FONTANERO ST DETAILS

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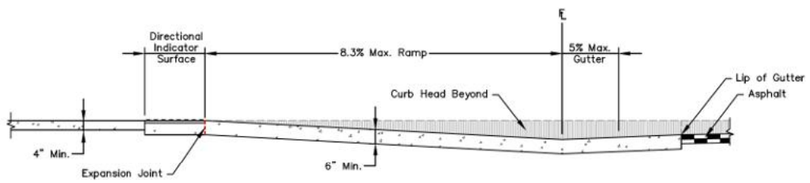
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ANGLED BICYCLE RAMP



Section A-A'

Notes:

1. The desired angle between the ramp and the roadway ranges from 20 to 25–degrees; however, angle is not to exceed 35–degrees.
2. Place directional indicator at the top of the bicycle ramp to provide a tactile cue for visually impaired pedestrians to continue down the sidewalk. Do not place detectable warning surfaces on the bicycle ramp.
3. Bike ramp should only be used where the accepting path is equal to or greater than 10–feet or at a round–a–bout.

COLORADO SPRINGS

BICYCLE CURB RAMP
ANGLED RAMP DETAILS

APPROVED:
CITY ENGINEER

ISSUED:	REVISED:	DRAWING NO.
4/18/2025		8–0

TAHaugh 12:33:49 PM pw:\\wils-pw.bentley.com:wils-pw\Documents\8100-TRN\City of Colorado Springs, CO\20-100-239-16\23916\Design\Drawings\23916DES_05-04_Details.dgn

Print Date: 1/16/2026
File Name: 23916DES_05-04_Details.dgn
Horiz. Scale: 1:1 Vert. Scale:
Unit Information Unit Leader
ALL SEALS FOR THIS SET OF DRAWINGS ARE APPLIED TO THE COVER PAGE.

Sheet Revisions		
Date:	Comments	Init.

COLORADO SPRINGS
OLYMPIC CITY USA

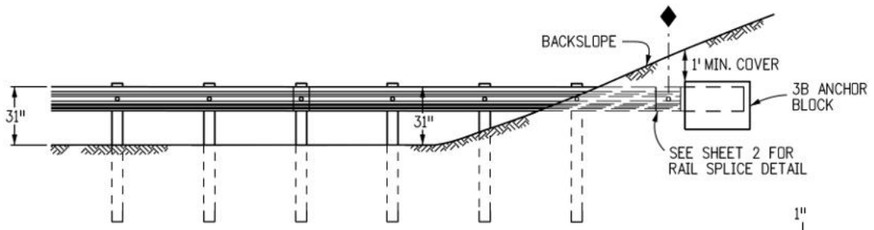
WILSON & COMPANY
5755 Mark Dabling Blvd.
Suite 100
Colorado Springs, CO 80919
Phone: 719-520-5800
FAX: 719-520-0108

No Revisions:
Revised:
Void:

31ST ST & FONTANERO ST DETAILS

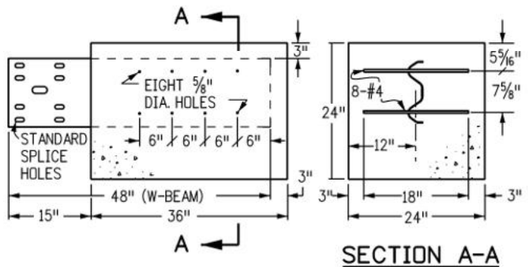
Designer: JDM
Detailer: BKM
Sheet Subset: DETAIL
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 4 of 7

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number



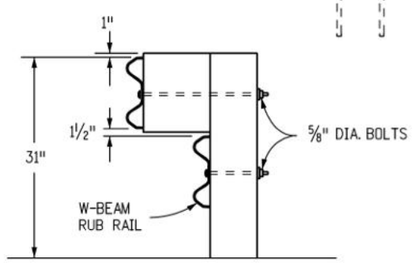
SEE TYPE 3B (RUB RAIL) PLAN VIEW FOR ALIGNMENT. THE 100 FT. FLARE LENGTH MAY BE SHORTENED IF THE SLOPE IS LESS THAN 8 FT. WIDE.

END ANCHORAGE TYPE 3B
(WITHOUT ROADSIDE DITCH AT GUARDRAIL)



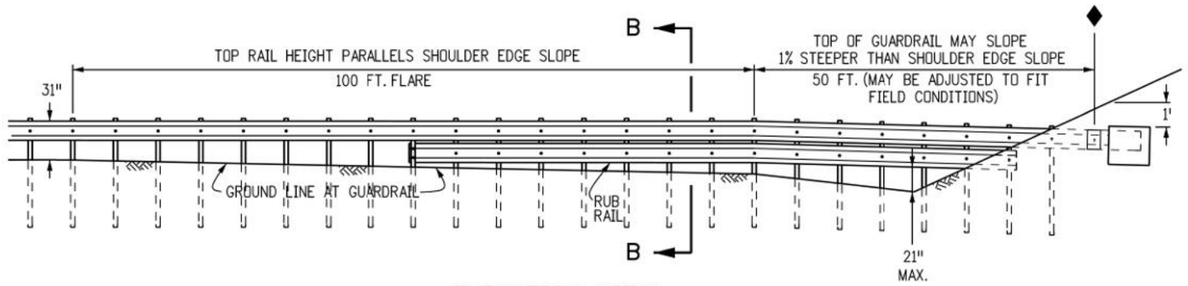
SECTION A-A

TYPE 3B ANCHOR BLOCK DETAIL

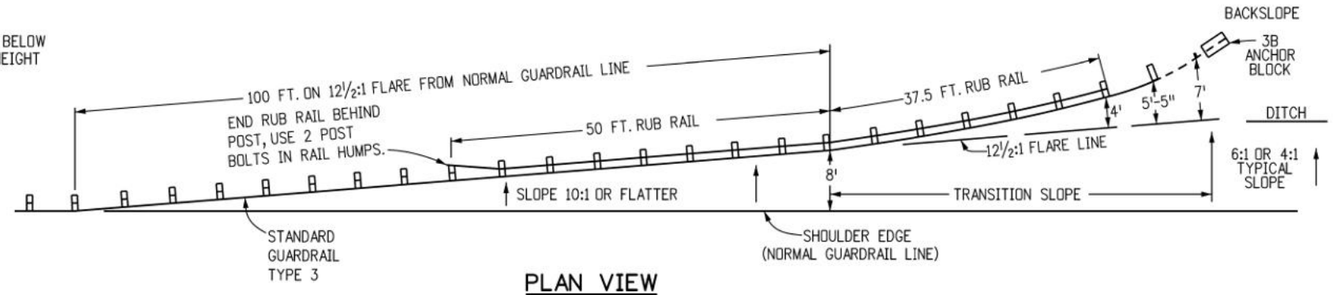


SECTION B-B

MOUNT A W-BEAM RUB RAIL 1-1/2 IN. BELOW THE TOP RAIL WHEN THE TOP RAIL HEIGHT EXCEEDS 33 IN. ABOVE THE GROUND



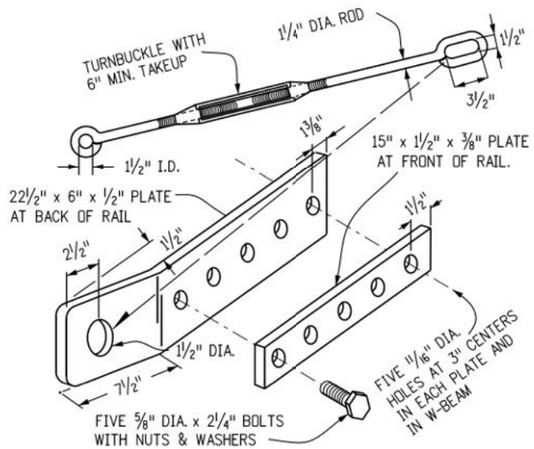
ELEVATION VIEW



PLAN VIEW

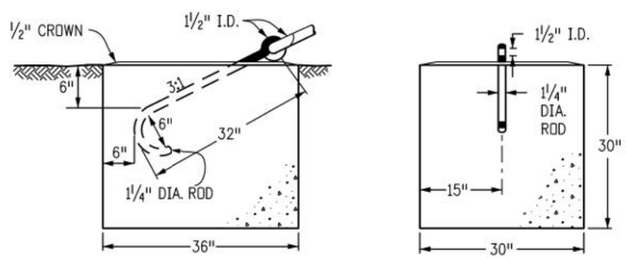
◆ END OF GUARDRAIL PAY LENGTH

END ANCHORAGE TYPE 3B (RUB RAIL)
(WITH ROADSIDE DITCH AT GUARDRAIL)



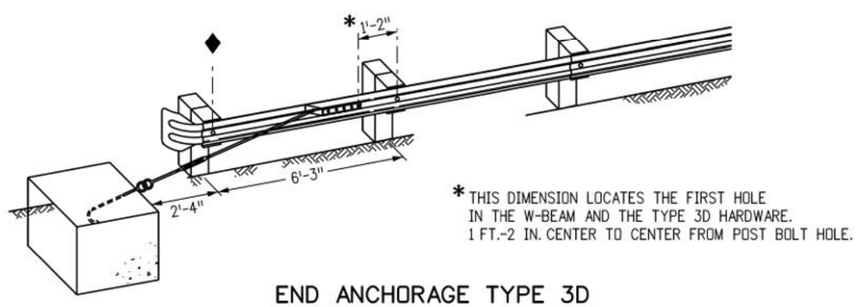
TYPE 3D HARDWARE DETAILS

NOTE: ALL PARTS SHALL BE GALVANIZED



FRONT END

TYPE 3D ANCHOR BLOCK DETAIL



* THIS DIMENSION LOCATES THE FIRST HOLE IN THE W-BEAM AND THE TYPE 3D HARDWARE. 1 FT.-2 IN. CENTER TO CENTER FROM POST BOLT HOLE.

END ANCHORAGE TYPE 3D DEPARTURE TERMINAL

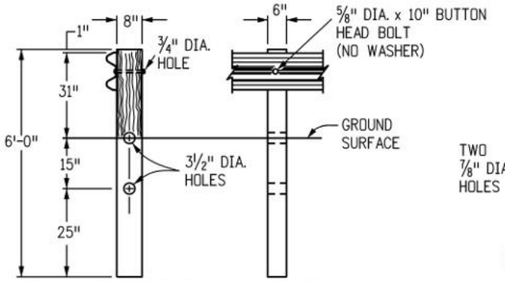
Computer File Information		Sheet Revisions	
Creation Date: 07/31/19		Date:	Comments
Designer Initials: JBK	(R-X)		
Last Modification Date: 07/31/19	(R-X)		
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Project Development Branch JBK

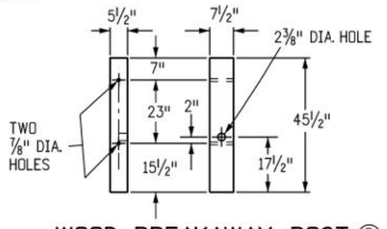
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 3 W-BEAM 31 INCHES

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-606-1
Standard Sheet No. 5 of 19
Project Sheet Number:



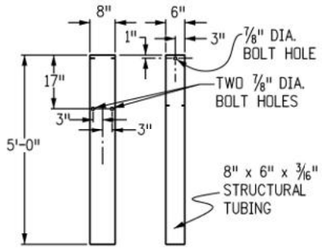
CONTROLLED RELEASING TERMINAL (CRT) POST ①



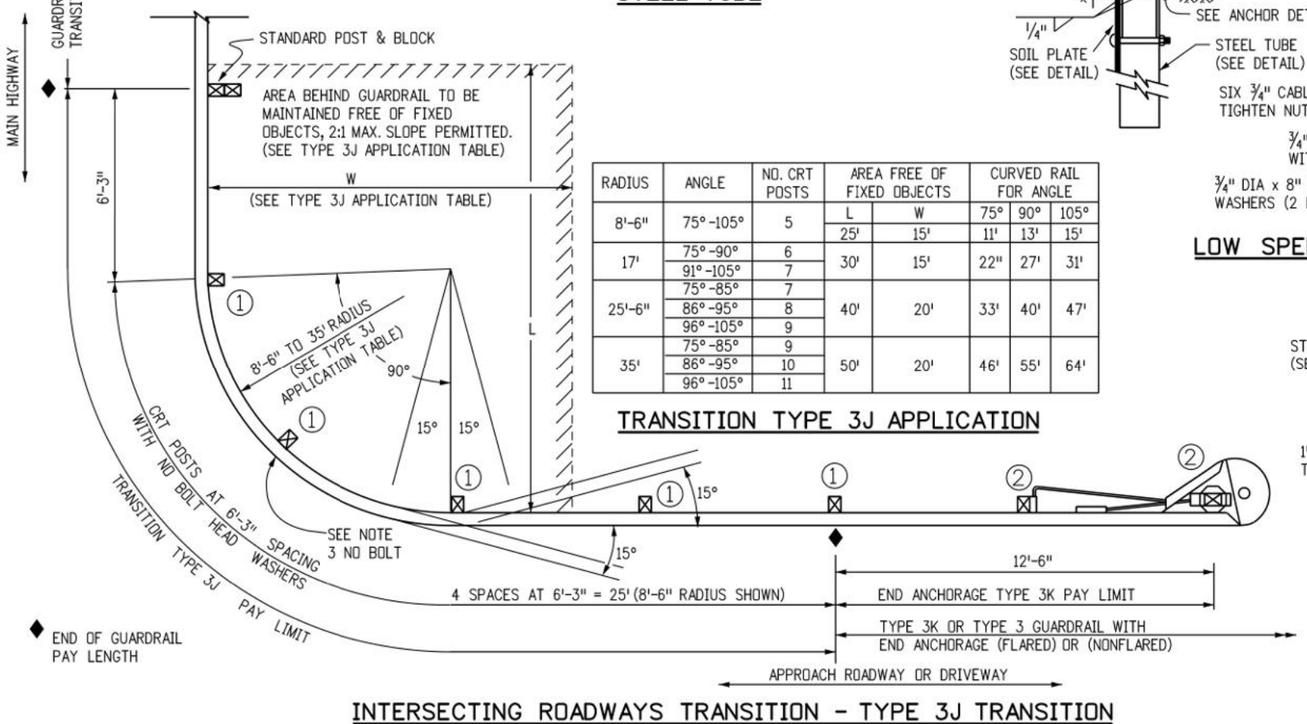
WOOD BREAKAWAY POST ②

POST	DIMENSIONS	TYPE
①	6" x 8" x 6'	CRT
②	5 1/2" x 7 1/2" x 45 1/2"	BREAKAWAY

POSTS



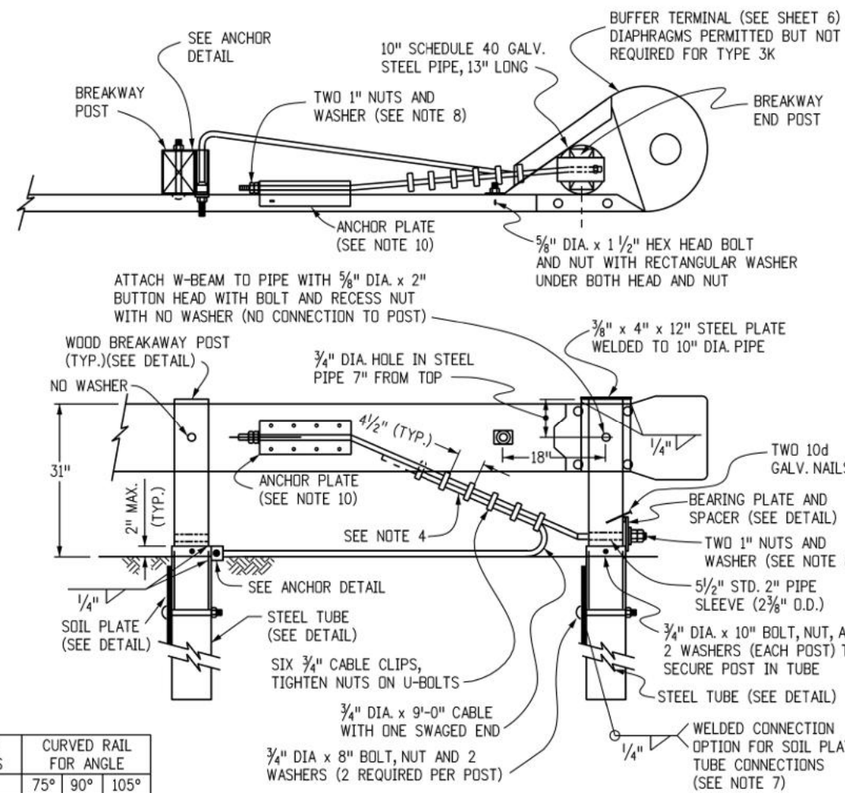
STEEL TUBE



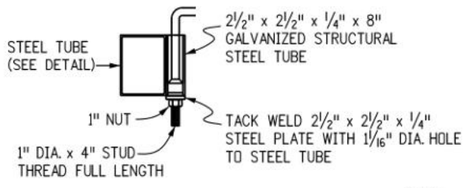
RADIUS	ANGLE	NO. CRT POSTS	AREA FREE OF FIXED OBJECTS		CURVED RAIL FOR ANGLE		
			L	W	75°	90°	105°
8'-6"	75°-105°	5	25'	15'	11'	13'	15'
17'	75°-90°	6	30'	15'	22'	27'	31'
	91°-105°	7					
25'-6"	75°-85°	7	40'	20'	33'	40'	47'
	86°-95°	8					
	96°-105°	9					
35'	75°-85°	9	50'	20'	46'	55'	64'
	86°-95°	10					
	96°-105°	11					

TRANSITION TYPE 3J APPLICATION

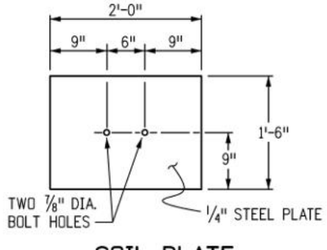
INTERSECTING ROADWAYS TRANSITION - TYPE 3J TRANSITION



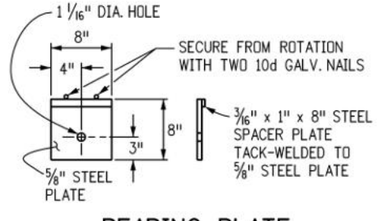
LOW SPEED END ANCHORAGE - TYPE 3K



ANCHOR DETAIL



SOIL PLATE



BEARING PLATE FOR STEEL TUBE

NOTES

1. APPLICATION: THE TRANSITION TYPE 3J MAY BE USED TO SHIELD HAZARDS AT THE INTERSECTION OF TWO ROADWAYS. TYPICAL APPLICATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   A. CANAL SERVICE ROADS AT BRIDGE ENDS.
   B. INTERRUPTIONS IN GUARDRAIL RUNS BY INTERSECTING ROADWAYS, ETC..

   THE LOW SPEED (<45 MPH) END ANCHORAGE TYPE 3K SHALL BE USED ONLY ON DRIVEWAYS AND LOW SPEED SERVICE ROADS. WHEN AN APPROVED CRASH-TESTED END TREATMENT IS REQUIRED USE THE END ANCHORAGE (FLARED) OR (NONFLARED) WITH 37 FT.-6 IN. LENGTH.
2. GRADING AND PAVING FOR THE 3J & 3K SHALL MATCH THE GRADING AND PAVING OF THE GUARDRAIL TO WHICH THEY ARE ATTACHED, AND SHALL BE IN ACCORDANCE WITH SHEET ONE OF THIS STANDARD. MAXIMUM FILL SLOPE SHALL BE 2:1.
3. THE RAIL IS NOT BOLTED TO THE CRT POST AT THE CENTER OF THE CURVE FOR THE 8 FT.-6 IN., 17 FT., AND 25 FT.-6 IN. RADII. PLATES SHALL CONFORM TO ASTM A 36, AND THE STRUCTURAL TUBING TO ASTM A 500.
4. THE 3/4IN. GALVANIZED WIRE ROPE (CABLE) SHALL CONFORM TO AASHTO M 30 TYPE II.
5. PLATES SHALL CONFORM TO ASTM A 36, AND STRUCTURAL TUBING TO ASTM A 500. WELDING SHALL MEET ALL REQUIREMENTS OF THE AMERICAN WELDING SOCIETY.
6. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A 123. POSTS SHALL NOT BE PUNCHED, DRILLED, CUT, OR WELDED AFTER GALVANIZING.
7. WHEN THE SOIL PLATE WELDED OPTION IS SELECTED, SOIL PLATE CONNECTION BOLT HOLES ARE NOT REQUIRED.
8. OUTSIDE NUT SHALL BE TORQUED AGAINST INSIDE NUT WITH THE CABLE INSTALLED TAUT BETWEEN THE ANCHOR PLATE AND FIRST POST.
9. ALL CURVED GUARDRAIL SHALL BE SHOP BENT.
10. SEE SHEET 5 FOR ANCHOR PLATE AND OTHER DETAILS.
11. THE STEEL TUBE MAY BE DRIVEN WITH WOOD POST INSERTED IF NO DAMAGE OCCURS TO THE POST OR BOLTS.

Computer File Information		Sheet Revisions	
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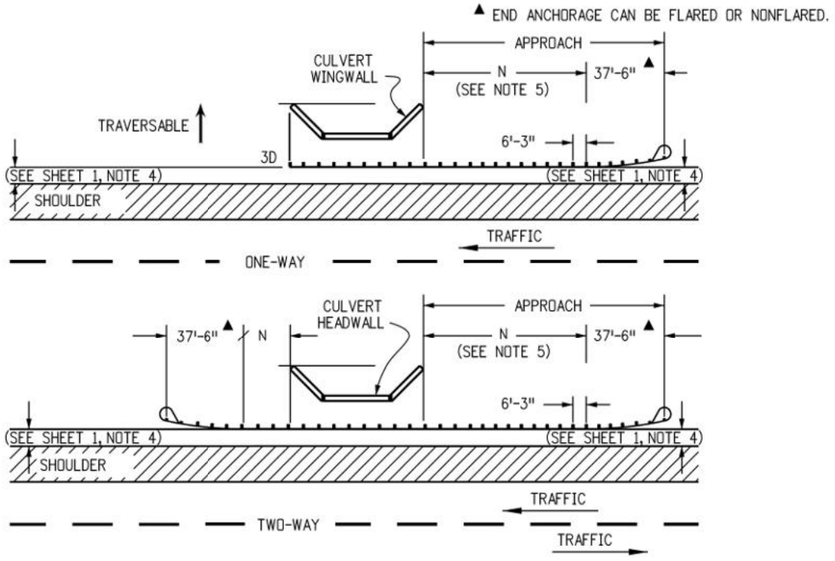
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 3 W-BEAM 31 INCHES

Issued by the Project Development Branch: July 31, 2019

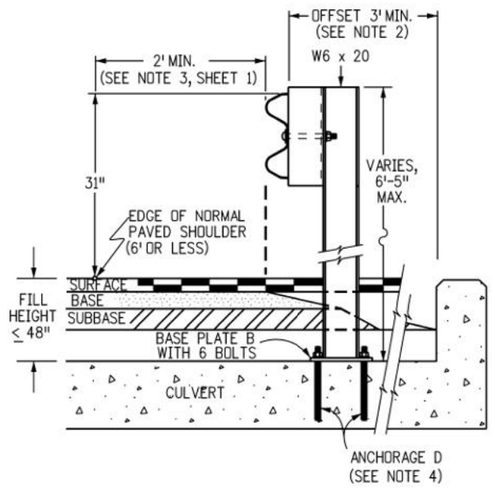
STANDARD PLAN NO. M-606-1

Standard Sheet No. 12 of 19

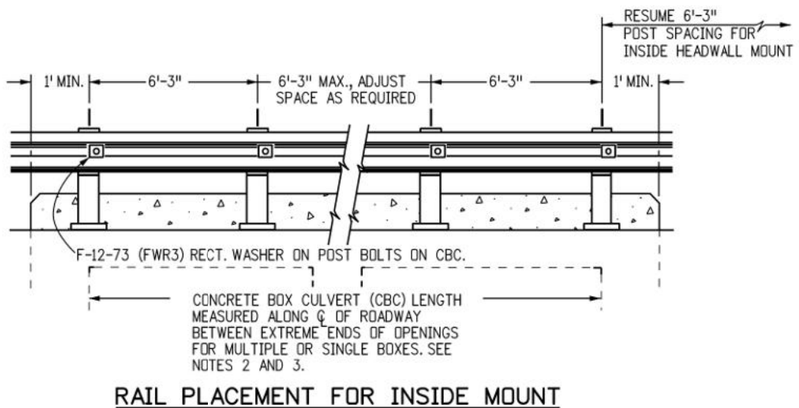
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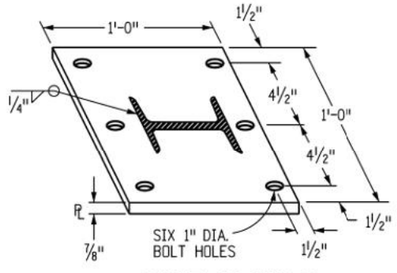
GUARDRAIL FOR CULVERTS



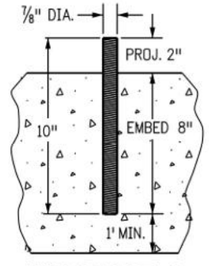
INSIDE MOUNT ON CBC



RAIL PLACEMENT FOR INSIDE MOUNT



BASE PLATE B
(FOR INSIDE MOUNT)



ANCHORAGE D
(FOR INSIDE MOUNT)

NOTES

1. LOCATION AND LENGTH OF MEDIAN GUARDRAIL APPROACHES TO CULVERTS WITH FULL HEADWALL AND WINGWALLS SHALL BE AS SHOWN FOR BRIDGES ON SHEET 15. THE GUARDRAIL TYPE 3 SHALL CONTINUE ACROSS THE CULVERT AS SHOWN ON THIS SHEET.
2. RIGHT SHOULDER BOX CULVERT TREATMENT IS SHOWN ON THIS SHEET FOR CULVERTS 20 FT. OR LESS IN LENGTH.
3. CONSTRUCTION AND PAYMENT FOR FILL HEIGHTS SHALL BE INCLUDED IN THE COST OF THE GUARDRAIL TYPE 3.
4. ANCHORAGE D: SIX BOLTS FOR BASE PLATE "B" WITH INSIDE MOUNT. THE BOLTS SHALL BE 7/8 IN. DIA X 10 IN. HIGH STRENGTH RODS THREADED FULL LENGTH AND ALL GALVANIZED. RODS SHALL BE CAST-IN-PLACE FOR NEW STRUCTURES. FOR EXISTING STRUCTURES, THE RODS SHALL BE INSTALLED IN 1-1/4 IN. DIA HOLES WITH NON-SHRINK GROUT OR EPOXY CONFORMING TO ASTM C 881. IF THE THICKNESS OF A CULVERT'S TOP PANEL REQUIRES BOLTS TO BE LESS THAN 10 IN. HIGH, THE BOLTS SHALL BE APPROVED BY THE ENGINEER.
5. THE GUARDRAIL LENGTH DIMENSION "N" IS THE LENGTH AS DETERMINED BY THE LENGTH OF NEED COMPUTATION AND IS SHOWN ON THE PLANS. THE MINIMUM IS 12 FT.-6 IN. WHERE SITE CONDITIONS ALLOW. THE OVERALL REQUIRED LENGTH OF NEED CAN INCLUDE THE LENGTH OF TRANSITION, THE LENGTH OF RAIL (N), AND ANY REDIRECTIVE LENGTH IN THE RAIL END TREATMENT.
6. ALL POSTS, BASE PLATES, AND ANCHOR BOLTS SHALL BE FABRICATED FROM ASTM A 36 STEEL. THE ABOVE MATERIAL, W-BEAM, AND ALL ANCHOR BOLTS AND MISCELLANEOUS BOLTS, NUTS,AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION INACCORDANCE WITH SECTION 509. CONCRETE, REINFORCING STEEL, AND STRUCTURAL STEEL ELEMENTS SHALL BE IN ACCORDANCE WITH SECTIONS 601, 602, AND 509, RESPECTIVELY.
7. POST ANCHORS, ENCASED IN CONCRETE, SHALL BE ASTM A 36 STEEL, AND NEED NOT BE GALVANIZED.
8. PRIOR TO INSTALLATION OF GUARDRAIL ON CULVERTS, THREE SETS OF WORKING DRAWINGS WHICH COMPLY WITH THE REQUIREMENTS OF SECTION 105 SHALL BE SUBMITTED TO THE ENGINEER FOR INFORMATION ONLY.

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MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 3 W-BEAM 31 INCHES

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-606-1
Standard Sheet No. 19 of 19
Project Sheet Number:

Know what's below. Call before you dig.

Sign Number		Station	Direction	Location	Sign	Panel Size (in.) W	x	H	Background Color	Legend	220-00810 REMOVAL OF SIGN POST EACH	220-00821 REMOVAL OF SIGN PANEL EACH	240-00810 RESET SIGN POST EACH	240-00821 RESET SIGN PANEL EACH	814-00010 SIGN PANEL (CLASS I) SF	814-10200 STEEL SIGN POST (2 INCH, TUBULAR) LF	814-80003 RECTANGULAR RAPID FLASHING BEACON EACH	Notes
Northbound 31st Street																		
1	x	31+85	NB	RHT	S1-1	REMOVE			FYG	[school crossing]	1							
	y				W16-9P				FYG	AHEAD								
2	a	31+85	EB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]					9	14		
	b				W16-9p	24	x	12	FYG	AHEAD					2			
3	a	32+20	NB	MED	D1-3	72	x	36	Brown	***Garden of the Gods [right arrow] Rock Ledge Ranch [right arrow] Flying W Ranch [right arrow]**		1			18			Replace existing panel
4	a	32+20	NB	RHT	W2-6	36	x	36	Yellow	[roundabout symbol]					9	15		
	b				W13-1P(15)	24	x	24	Yellow	15 M.P.H.					4			
5	a	32+75	NB	RHT	R7-1L	12	x	18	White	NO PARKING ANY TIME [left arrow]					1.5	11.5		
6	a	33+00	NB	RHT	SPECIAL	24	x	18	Blue	[bike symbol (COS Custom)]					3	12		
	b				M6-2P(SPEC)	9	x	7	Blue	[upward diagonal right angle (COS Custom)]					0.44			
7	a	34+85	NB	RHT	R1-2	36x36x36			Red	YIELD					3.9	13		
8	x	35+00	NB	RHT	R1-1	REMOVE			Red	STOP	1							
	y				R1-3P				Red	ALL WAY								
9	x	35+15	EB	MED	R6-1(r)	REMOVE			White	ONE WAY	1							
	y		NB		R1-1				Red	STOP								
	z				R1-3P				Red	ALL WAY								
10	x	35+15	EB	RHT	D3-1	REMOVE			Green	31st St	1							
	y		NB		D3-1				Green	Fontanero St								
11	a	35+40	NB	MED	R6-1(r)	36	x	12	White	ONE WAY					3	12.5		
	b				OM1-3	18	x	18	Yellow	[object marker]					2.25			
12	a	36+25	NB	MED	D1-1d	36	x	12	Green	***31st St [upward diagonal right arrow]**					3	11		
13	a	36+35	NB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]					9	14.25		
	b				W16-7pL	21	x	15	FYG	[downward diagonal left arrow]					2.19			
14	a	36+35	NB	MED	R1-6	12	x	36	FYG	STATE LAW [yield symbol] TO [pedestrian symbol] IN CROSSWALK					3	13		
15	x	36+90	NB	RHT	R2-1(30)	REMOVE			White	SPEED LIMIT 30	1							
	y				R3-17ASP				White	LEFT RIGHT [bike symbol, parking symbol] ONLY								
16	x	36+90	NB	MED	R2-1(30)	REMOVE			White	SPEED LIMIT 30	1							
	y				SPECIAL				White	NEIGHBORHOOD WATCH								
17	a	37+30	NB	RHT	R2-1(30)	30	x	36	White	SPEED LIMIT 30					7.5	13		
18	r	37+60	NB	RHT	W3-1	RESET			Yellow	[stop ahead]			1					Reset to STA 39+10
19	a	38+20	NB	RHT	R3-17ASP	24	x	18	White	LEFT RIGHT [bike symbol, parking symbol] ONLY					3	13		
	b				R7-1R	12	x	18	White	NO PARKING ANY TIME [right arrow]					1.5			
Southbound 31st Street																		
20	x	39+40	SB	RHT	S1-1	REMOVE			FYG	[school crossing]	1							
	y				W16-9P				FYG	AHEAD								
21	a	39+40	SB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]					9	14		
	b				W16-9p	24	x	12	FYG	AHEAD					2			
22	a	38+55	SB	RHT	W2-6	36	x	36	Yellow	[roundabout symbol]					9	15		
	b				W13-1(15)	24	x	24	Yellow	15 M.P.H.					4			
23	a	37+80	SB	RHT	SPECIAL	24	x	18	White	[bike symbol (COS Custom)]					3	12		
	b				M6-2P(SPEC)	9	x	7	White	[upward diagonal right angle (COS Custom)]					0.44			
24	a	37+70	SB	RHT	R7-1L	12	x	18	White	NO PARKING ANY TIME [left arrow]					1.5	11.5		
25	a	36+50	SB	MED	R1-6	12	x	36	FYG	STATE LAW [yield symbol] TO [pedestrian symbol] IN CROSSWALK					3	13		
26	a	36+50	SB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]					9	14.25		
	b				W16-7pL	21	x	15	FYG	[downward diagonal left arrow]					2.19			
27	a	36+30	SB	RHT	R1-2	36x36x36			Red	YIELD					3.9	13		
28	x	36+10	SB	RHT	R1-1	REMOVE			Red	STOP	1							
	y				R1-3P				Red	ALL WAY								
29	x	36+00	EB	MED	R6-1(r)	REMOVE			White	ONE WAY	1							
	y		SB		R1-1				Red	STOP								
	z				R1-3P				Red	ALL WAY								
30	a	35+70	SB	MED	R6-1(r)	36	x	12	White	ONE WAY					3	12.5		
	b				OM1-3	18	x	18	Yellow	[object marker]					2.25			
31	a	34+90	SB	MED	D1-1d	36	x	12	Green	***31st St [upward diagonal right arrow]**					3	11		Reset NO OUTLET panel to Sta. 17+05
32	x	34+05	SB	MED	R2-1(30)	REMOVE			White	SPEED LIMIT 30	1							
33	x	34+05	SB	RHT	R2-1(30)	REMOVE			White	SPEED LIMIT 30	1							
	y				R3-17ASP				White	LEFT RIGHT [bike symbol, parking symbol] ONLY								
34	a	33+60	SB	RHT	R3-17ASP	24	x	18	White	LEFT RIGHT [bike symbol, parking symbol] ONLY					3	13		
	b				R7-1R	12	x	18	White	NO PARKING ANY TIME [right arrow]					1.5			
35	a	32+70	SB	RHT	R2-1(30)	30	x	36	White	SPEED LIMIT 30					7.5	13		

Sign Number		Station	Direction	Location	Sign	Panel Size (in.) W	x	H	Background Color	Legend	220-00810 REMOVAL OF SIGN POST EACH	220-00821 REMOVAL OF SIGN PANEL EACH	240-00810 RESET SIGN POST EACH	240-00821 RESET SIGN PANEL EACH	814-00010 SIGN PANEL (CLASS I) SF	814-10200 STEEL SIGN POST (2 INCH, TUBULAR) LF	814-80003 RECTANGULAR RAPID FLASHING BEACON EACH	Notes
Eastbound Fontanero Street																		
36	x	13+55	EB	RHT	S1-1	REMOVE			FYG	[school crossing]	1							
	y				W16-9P				FYG	AHEAD								
37	a	13+55	EB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]					9	14		
	b				W16-9p	24	x	12	FYG	AHEAD					2			
38	a	14+70	EB	RHT	W2-6	36	x	36	Yellow	[roundabout symbol]					9	15		
	b				W13-1(15)	24		24	Yellow	15 M.P.H.					4			
39	a	16+60	EB	MED	OM-3L	12	x	36	Yellow	[object marker]					3	14		
	b				OM2-1V	6	x	12	White	[object marker]					0.5			
40	a	16+70	EB	MED	R1-6	12	x	36	FYG	STATE LAW [yield symbol] TO [pedestrian symbol] IN CROSSWALK					6	13		x2 Back to back
41	a	16+70	EB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]					9	14.25		
	b				W16-7pL	21	x	15	FYG	[downward diagonal left arrow]					2.19			
42	x	16+70	EB	RHT	R7-1	RESET			White	NO PARKING ANY TIME [left arrow]			1					Reset to Sta 16+00
43	a	17+00	EB	RHT	R1-2	36x36x36			Red	YIELD					3.9	13		
44	x	17+05	EB	RHT	R1-1	REMOVE			Red	STOP	1							
	y				R1-3P				Red	ALL WAY								
45	x	17+60	EB	RHT	SPECIAL	REMOVE			Black	Camp Creek Fountain Creek Watershed	1							
	y				SPECIAL				White	IN CASE OF FLASH FLOOD CLIMB TO SAFETY								
46	a	17+60	EB	MED	R6-1(r)	36	x	12	White	ONE WAY					3	12.5		
	b				OM1-3	18	x	18	Yellow	[object marker]					2.25			
47	a	18+45	EB	MED	D1-1d	54	x	12	Green	***Fontanero St [upward diagonal right arrow]**					4.5	11		
48	a	18+65	EB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]							1	
	b				W16-7pL	21	x	15	FYG	[downward diagonal left arrow]								
49	a	18+65	EB	MED	W11-2	36	x	36	FYG	[pedestrian symbol]							1	Back to back for EB & WB
	b				W16-7pR	21	x	15	FYG	[downward diagonal right arrow]								
50	a	19+65	NB	T	R6-1(r)	36	x	12	White	ONE WAY					3	11		
51	a	21+00	EB	RHT	R3-17	24	x	18	White	[bike symbol] BIKE LANE					3			Mount to utility pole
52	a	22+25	EB	RHT	D1-3	84	x	42	Brown	***[left arrow] Garden of the Gods [left arrow] Rock Ledge Ranch [left arrow] Flying W Ranch**	2				24.5	27		Two posts, replace existing sign
Westbound Fontanero Street																		
53	a	43+90	WB	RHT	W9-1R	36	x	36	Yellow	RIGHT LANE ENDS					9	14.5		
	b				W16-2P	24	x	18	Yellow	500 FEET					3			
54	a	39+55	WB	RHT	W4-2R	36	x	36	Yellow	[right lane ends symbol]					9			Mount to light pole
55	a	36+15	WB	RHT	W1-1R	RESET			Yellow	[turn arrow]				1		14.5		Reset from Sta. 39+60
	b				W13-1P(20)				Yellow	20 M.P.H				1				Reset from Sta. 39+60
56	a	24+40	WB	RHT	R2-1(25)	30	x	36	White	SPEED LIMIT 25					7.5	13		
57	x	22+60	WB	RHT	S1-1	REMOVE			FYG	[school crossing]	1							
	y				W16-9P				FYG	AHEAD								
	z				SPECIAL				White	NEIGHBORHOOD WATCH								
58	a	22+60	WB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]					9	15.5		
	b				W16-9p	24	x	12	FYG	AHEAD					2			
	c				R7-1L	12	x	18	White	NO PARKING ANY TIME [left arrow]					1.5			
59	a	21+40	WB	RHT	R7-1R	12	x	18	White	NO PARKING ANY TIME [right arrow]					1.5	11.5		
60	x	20+80	WB	RHT	SPECIAL	REMOVE			White	TO [route 24, left arrow]	1							
61	a	20+80	WB	RHT	W2-6	36	x	36	Yellow	[roundabout symbol]					9	15		
	b				W13-1(15)	24	x	24	Yellow	15 M.P.H.					4			
62	a	20+70	WB	MED	M4-5P	24	x	12	White	TO					2	17.25		
	b				M1-4(24)	24	x	24	White	US 24 shield					4			
	c				M5-3P	21	x	15	White	[roundabout left arrow]					2.19			
	d				OM-3L	12	x	36	Yellow	[object marker]					3			
63	a	20+60	WB	RHT	SPECIAL	24	x	18	Blue	[bike symbol (COS Custom)]					3	12		
	b				M6-2P(SPEC)	9	x	7	Blue	[upward diagonal right angle (COS Custom)]					0.44			
64	a	19+65	SB	T	R6-1(r)	36	x	12	White	ONE WAY					3			Mount panel on Sign #50 post
65	a	18+80	WB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]							1	
	b				W16-7pL	21	x	15	FYG	[downward diagonal left arrow]								
66	a	18+80	WB	MED	R1-6	12	x	36	FYG	STATE LAW [yield symbol] TO [pedestrian symbol] IN CROSSWALK					6	13		x2 Back to back
67	x	18+45	WB	MED	R1-1	REMOVE			Red	STOP	1							
	y				R1-3P				Red	ALL WAY								
	z				OM-3L				Yellow	[object marker]								
68	a	18+45	WB	RHT	R1-2	36x36x36			Red	YIELD					3.9	13		
69	x	18+40	WB	RHT	R1-1	REMOVE			Red	STOP	1							
	y				R1-3P				Red	ALL WAY								
70	a	17+90	WB	MED	R6-1(r)	36	x	12	White	ONE WAY					3	12.5		
	b				OM1-3	18	x	18	Yellow	[object marker]					2.25			
71	x	17+80	WB	RHT	SPECIAL	REMOVE			White	TO [route 24, left arrow]	1							
	y				SPECIAL				Black	Camp Creek Fountain Creek Watershed								
	z				SPECIAL				White	IN CASE OF FLASH FLOOD CLIMB TO SAFETY								
72	x	17+10	WB SB	RHT	D3-1	REMOVE			Green	31st St	1							
	y				D3-1				Green	Fontanero St								
73	a	17+05	WB	MED	D1-1d	54	x	12	Green	***Fontanero St [upward diagonal right arrow]**					4.5	14		
	b				SPECIAL	RESET			White	NO OUTLET NO ACCESS TO GARDEN OF THE GODS PARK				1				Reset from Sign #72
74	a	16+85	WB	RHT	W11-2	36	x	36	FYG	[pedestrian symbol]					9	14.25		
	b				W16-7pL	21	x	15	FYG	[downward diagonal left arrow]					2.19			
										TOTALS	22	1	2	3	345	610	3	

***Boldface indicates special layout**

Direction NB: Northbound
Direction SB: Southbound
Direction EB: Eastbound
Direction WB: Westbound
Color FYG: Fluorescent Yellow-Green

Location RHT: Right side of road
Location LFT: Left side of road
Location MED: Within median
Location T: Far side of T-intersection

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31ST ST & FONTANERO ST SIGNING AND STRIPING TABULATION

Designer: EJL
Detailer: AMG
Sheet Subset: SS-TAB
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 2

Project No./Code
Project #STU-M240-203
Bid #__-__
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Know what's below. Call before you dig.

TABULATION OF PREFORMED THERMOPLASTIC PAVEMENT MARKINGS

ROADWAY	INTERSECTION	DIRECTION	STATION	PREFORMED THERMOPLASTIC PAVEMENT MARKING 827-34050 RHT ARROW EA	BIKE + ARROW EA	SCHOOL EA	BIKE LANE MARKER (GREEN) EA	MERGE ARROW EA	PREFORMED THERMOPLASTIC PAVEMENT MARKING (INLAID) 827-34055 X-WALK BARS	YIELD LINE LF
Fontanero St	31st St	EB	16+80						3	
		WB	16+80						3	
		EB	17+10							15
		WB	18+40							15
		EB	18+70						4	
		WB	18+70						3	
	Pleasant St	EB	20+50		1					
		EB	20+60			1				
		EB	20+70			1				
		WB	22+30			1				
		WB	22+50		1					
	30th St	WB	24+40		1					
		WB	26+00	1						
		WB	26+55	1	1					
		WB	26+80				13			
		WB	29+70		1					
		WB	38+55					1		
		WB	40+45					1		
		WB	42+80					1		
31st St	Fontanero St	SB	33+40		1					
		NB	34+90							15
		SB	36+25							15
		NB	36+40						4	
		SB	36+40						3	
		NB	38+20		1					
Restoration of 31st Street From Temporary Reconfiguation to Existing Conditions										
		NB 31st St			3	1				
		SB 31st St			1	1				
		TOTAL		2	11	5	13	3	20	60
		SQUARE-FOOTAGE MULTIPLIER		16.1	17.2	33	10	58	18	1.5
		SQUARE-FOOTAGE		32.2	189.2	165	130	174	360	90
		WORD-SYMBOL TOTAL (SF)				**691**				
		XWALK-YEILD LINE TOTAL (SF)							**450**	

Tabulation of Pavement Marking Quantities

Epoxy Pavement Marking (827-32000)

Stations To	Stations From	Unit	White: Edge Line 4" LF	Qty	Total	Edge Line 6" LF	Qty	Total	Lane Line 6" LF	Qty	Total	Extension Line 8" LF	Qty	Total	Dotted Lane Line 4" LF	Qty	Total	Cross-Hatching Line 4" LF	Qty	Total	Channelizing Line 8" LF	Qty	Total	Yellow: Center Line Double 4" LF	Qty	Total	Center Line Solid/Broken 4" LF	Qty	Total
Fontanero St																													
15+70	16+55	LF																						85	2	170			
17+10	17+20	LF										38	1	38															
18+30	18+40	LF										32	1	32															
20+30	20+85	LF				55	2	110	55	1	55																		
21+40	22+10	LF	70	1	70	70	1	70										8	3	24							70	1	70
22+10	22+60	LF	50	2	100	50	1	50										6	3	18							50	1	50
22+65	24+55	LF	175	3	525	175	1	175																					
25+55	26+60	LF				105	1	105													105	1	105						
26+60	26+65	LF				5	1	5																					
26+65	27+65	LF													100	1	100												
27+65	29+05	LF	140	1	140	140	1	140							140	1	140	44	1	44									
29+05	31+70	LF	265	1	265	265	1	265										10	12	120									
32+20	35+65	LF	345	1	345	345	1	345										15	14	210									
35+65	38+15	LF	250	1	250	250	1	250										50	1	50									
38+15	42+20	LF													425	1	425												
31st St																													
32+60	33+00	LF	40	1	40	40	1	40																					
33+00	33+10	LF	10	1	10	10	2	20																					
33+10	33+20	LF				10	2	20																					
33+20	33+70	LF				50	1	50																					
33+70	33+90	LF	20	1	20	20	2	40																					
33+90	34+00	LF	10	1	10	10	2	20																					
34+00	34+10	LF				10	2	20																					
34+10	34+80	LF				70	1	70																					
34+95	35+10	LF										32	1	32															
36+00	36+20	LF										38	1	38															
36+40	36+50	LF				10	1	10																					
36+40	37+40	LF				90	2	180																					
37+40	37+55	LF				15	3	45																					
37+55	37+60	LF	5	1	5	5	3	15																					
37+60	37+70	LF	10	1	10	10	2	20																					
37+70	37+80	LF				10	2	20																					
37+80	37+90	LF	10	1	10	10	2	20																					
37+90	38+15	LF	25	1	25																								
Restoration of 31st Street From Temporary Reconfiguation to Existing Conditions																													
NB 31ST ST		LF	2300	1	2300	2300	1	2300																					
SB 31ST ST		LF	1700	1	1700	1700	1	1700																					
TOTALS		LF	5825			6105			55			140			665			466			105			170			120		
		SF	1941.7			3052.5			6.9			31.1			73.9			155.3			70.0			113.3			50.0		
		GAL	22.84			35.91			0.08			0.37			0.87			1.83			0.82			1.33			0.59		
			WHITE EPOXY																					YELLOW EPOXY					
			63																					2					
			TOTAL GAL - Epoxy Pavement Marking																										
			65																										

Tabulation of Pavement Marking Removals (220-00250)

Location	White: Edge Line 4" LF	Qty	Total	Edge Line 6" LF	Qty	Total	Lane Line 6" LF	Qty	Total	Yellow: Center Line Double 4" LF	Qty	Total	Center Line Solid/Broken 4" LF	Qty	Total	Thermoplastic Pavement Markings: BIKE + ARROW Qty	Sqft	Total	SCHOOL Qty	Sqft	Total
Fontanero St																					
WB Fontanero St				505	1	505	1160	1	1160				120	1	120				2	33	66
Conversion of 31st Street to Bi-directional Traffic																					
NB 31ST ST	2300	1	2300	2300	1	2300										3	17.2	51.6	1	33	33
SB 31ST ST	1700	1	1700	1700	1	1700										1	17.2	17.2	1	33	33
Restoration of 31st Street From Temporary Reconfiguation to Existing Conditions																					
NB 31ST ST										2300	1	2300									
SB 31ST ST										1700	1	1700									
LF Totals	4000			4505			1160			4000			120								
SF Totals	1333.3			2252.5			96.7			2666.7			50.0			68.8			132		
SF TOTAL	**6600**																				

TABULATION OF DELINEATORS

ROADWAY	STATION	REMOVAL OF DELINEATOR 220-00090	DELINEATOR (FLEXIBLE) (SURFACE MOUNTED) 812-00039
Fontanero St	18+40	4	
31st St	37+80		6

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31ST ST & FONTANERO ST SIGNING AND STRIPING TABULATION

Designer: EJL | Structure Numbers: CSG-E.00-10.57A
Detailer: AMG
Sheet Subset: SS-TAB | Subset Sheets: 2 of 2

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SEE SHEET 6 OF 6

HCL N 31st ST

HCL FONTANERO ST

N 31st ST SB

N 31st ST NB

CAMP CREEK

W FONTANERO ST

MATCHLINE STA. 21+00.00

SEE SHEET 6 OF 6

36 — AHEAD — REMOVE (STA 13+55)

37 — W11-2 — AHEAD — W16-9p (STA 13+55)

38 — W2-6 — 15 M.P.H. — W13-1 (15)

39 — OM-3L — OM2-1V (BACK TO BACK)

40 — R1-6(x2) (BACK TO BACK)

41 — W11-2 — W16-7pL

42 — RESET (TO STA 16+00)

43 — R1-2

44 — STOP — ALL WAY — REMOVE

45 — REMOVE SIGNS: CAMP CREEK FLASH FLOOD WARNING

46 — R6-1(r) — OM1-3

47 — Fontanero St — D1-1d — REMOVE DELINEATORS (X4)

48 — W11-2 — W16-7pL RRFB

49 — W11-2 — W16-7pR (BACK-TO-BACK) RRFB

50 — R6-1(r)

51 — BIKE LANE — R3-17 (MOUNT TO UTILITY POLE)

72 — 31ST ST / FONTANERO ST — REMOVE

73 — Fontanero St — D1-1d — NO OUTLET / NO ACCESS TO GARDEN OF THE GODS PARK — RESET (FROM SIGN 72)

74 — W11-2 — W16-7pL

71 — REMOVE SIGNS: TO ROUTE 24 CAMP CREEK FLASH FLOOD WARNING

70 — R6-1(r) — OM1-3

69 — STOP — ALL WAY — REMOVE

68 — R1-2

67 — STOP — ALL WAY — REMOVE

65 — W11-2 — W16-7pL RRFB

66 — R1-6(x2) (BACK TO BACK)

63 — SPECIAL — M6-2P (SPECIAL)

62 — TO — M4-5P — 24 — M1-4(24) — M5-3P — OM-3L

61 — W2-6 — 15 M.P.H. — W13-1 (15)

60 — REMOVE SIGN: TO ROUTE 24

64 — R6-1(r)

PAVEMENT MARKING LEGEND

1. LANE LINES, WHITE, 6" WIDE
2. EDGE LINE, WHITE, 6" WIDE
3. CHANNELIZING LINE, WHITE, 8" WIDE
4. CROSS-HATCHING LINE, WHITE, 4" WIDE (25' SPACING)
5. EXTENSION LINE, WHITE, 8" WIDE
6. DOTTED LANE LINE, WHITE, 4" WIDE
7. CENTER LINE, DOUBLE YELLOW, 4" WIDE
8. CENTER LINE, SOLID/BROKEN YELLOW, 4" WIDE
9. RIGHT ARROW SYMBOL
10. BIKE LANE MARKER W/ GREEN BACKGROUND
11. MERGE ARROW
12. SCHOOL
13. BICYCLE & ARROW SYMBOL
14. BICYCLE & ARROW SYMBOL W/ GREEN BACKGROUND
15. CROSSWALK MARKINGS, 2' X 9'
16. YIELD LINE, 16" X 24" TRIANGLES
17. EDGE LINES, WHITE, 4" WIDE

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

NOTE: ALL EXISTING SIGNS AND PAVEMENT MARKINGS NOT SHOWN IN THIS PLAN SHALL BE PROTECTED IN PLACE.

AMGuzman 2:12:45 PM pw:\\wils-pw.bentley.com:wils-pw\Documents\8100-TRN\City of Colorado Springs, CO\20-100-239-16\23916\Traffic_ITS_Lighting\Drawings\23916SS_02-01_Pn.dgn

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No Revisions:

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31ST ST & FONTANERO ST SIGNING AND STRIPING PLAN

Designer:	EJL	Structure Numbers	CSG-E.00-10.57A
Detailer:	AMG		
Sheet Subset:	SS-Pn	Subset Sheets: 1 of 6	

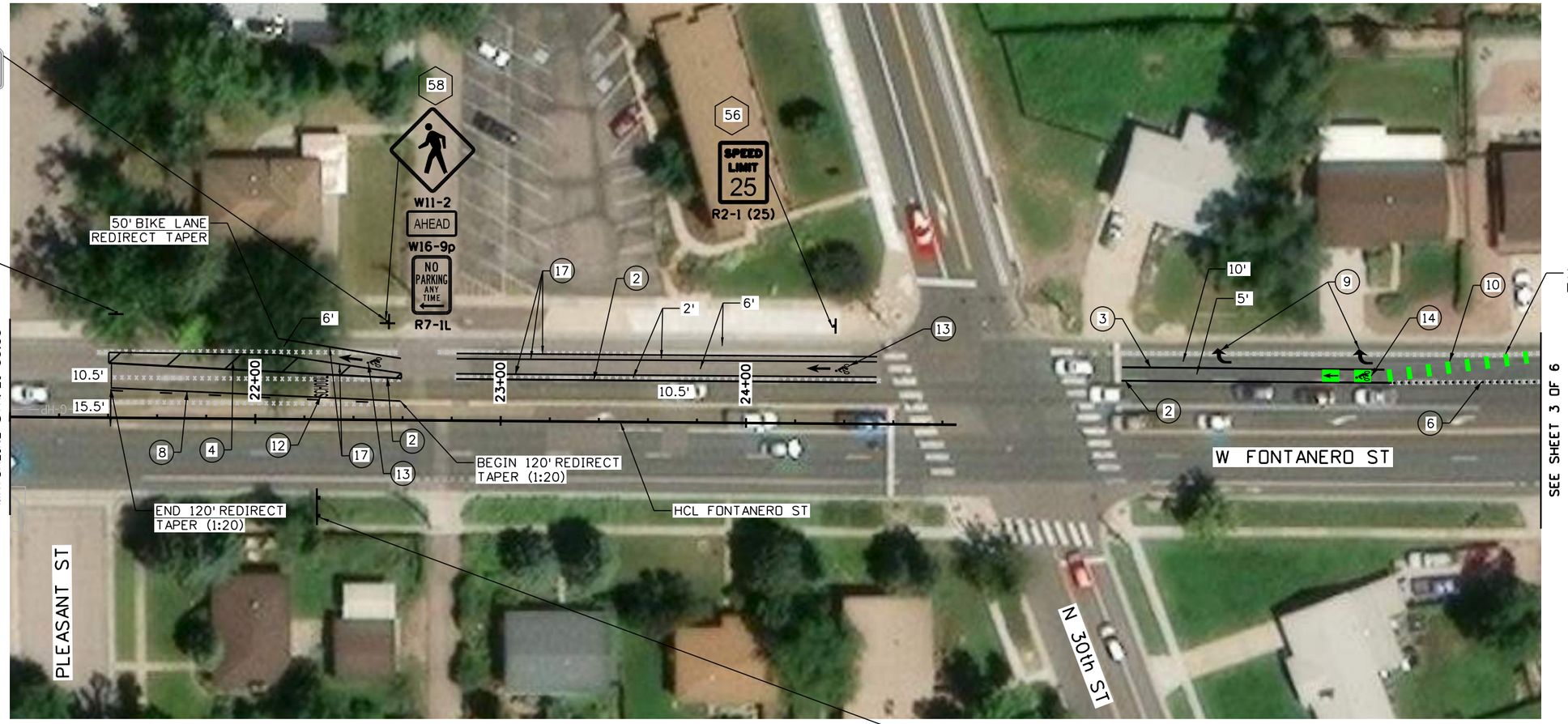
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Project #STU-M240-203

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Sheet Number

NOTE: ALL EXISTING SIGNS NOT SHOWN IN THIS PLAN SHALL BE PROTECTED IN PLACE.



PAVEMENT MARKING LEGEND

1. LANE LINES, WHITE, 6" WIDE
2. EDGE LINE, WHITE, 6" WIDE
3. CHANNELIZING LINE, WHITE, 8" WIDE
4. CROSS-HATCHING LINE, WHITE, 4" WIDE (25' SPACING)
5. EXTENSION LINE, WHITE, 8" WIDE
6. DOTTED LANE LINE, WHITE, 4" WIDE
7. CENTER LINE, DOUBLE YELLOW, 4" WIDE
8. CENTER LINE, SOLID/BROKEN YELLOW, 4" WIDE
9. RIGHT ARROW SYMBOL
10. BIKE LANE MARKER W/ GREEN BACKGROUND
11. MERGE ARROW
12. SCHOOL
13. BICYCLE & ARROW SYMBOL
14. BICYCLE & ARROW SYMBOL W/ GREEN BACKGROUND
15. CROSSWALK MARKINGS, 2' X 9'
16. YIELD LINE, 16" X 24" TRIANGLES
17. EDGE LINES, WHITE, 4" WIDE

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

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Colorado Springs, CO 80919
Phone: 719-520-5800
FAX: 719-520-0108

No Revisions:
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Void:

31ST ST & FONTANERO ST SIGNING AND STRIPING PLAN

Designer:	EJL	Structure Numbers	CSG-E.00-10.57A
Detailer:	AMC		
Sheet Subset:	SS-Pn	Subset Sheets: 2 of 6	

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

AMGuzman 2:13:01 PM pw:\\wils-pw.bentley.com:wils-pw\Documents\8100-TRN\City of Colorado Springs, CO\20-100-239-16\23916\Traffic_ITS_Lighting\Drawings\23916SS_02-02_Pn.dgn

Know what's below. Call before you dig.

NOTE: ALL EXISTING SIGNS NOT SHOWN IN THIS PLAN SHALL BE PROTECTED IN PLACE.



PAVEMENT MARKING LEGEND

1. LANE LINES, WHITE, 6" WIDE
2. EDGE LINE, WHITE, 6" WIDE
3. CHANNELIZING LINE, WHITE, 8" WIDE
4. CROSS-HATCHING LINE, WHITE, 4" WIDE (25' SPACING)
5. EXTENSION LINE, WHITE, 8" WIDE
6. DOTTED LANE LINE, WHITE, 4" WIDE
7. CENTER LINE, DOUBLE YELLOW, 4" WIDE
8. CENTER LINE, SOLID/BROKEN YELLOW, 4" WIDE
9. RIGHT ARROW SYMBOL
10. BIKE LANE MARKER W/ GREEN BACKGROUND
11. MERGE ARROW
12. SCHOOL
13. BICYCLE & ARROW SYMBOL
14. BICYCLE & ARROW SYMBOL W/ GREEN BACKGROUND
15. CROSSWALK MARKINGS, 2' X 9'
16. YIELD LINE, 16" X 24" TRIANGLES
17. EDGE LINES, WHITE, 4" WIDE

0' 25' 50' 100'
1 INCH = 50 FEET (FULL SCALE 11"X17")

Print Date: 12/9/2025
File Name: 23916SS_02-03_Pn.dgn
Horiz. Scale: 1:50 Vert. Scale:
Unit Information Unit Leader
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Sheet Revisions		
Date:	Comments	Init.

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31ST ST & FONTANERO ST SIGNING AND STRIPING PLAN

Designer: EJL
Detailer: AMG
Sheet Subset: SS-Pn
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 3 of 6

Project No./Code
Project #STU-M240-203
Bid #__-__
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NOTE: ALL EXISTING SIGNS NOT SHOWN IN THIS PLAN SHALL BE PROTECTED IN PLACE.



PAVEMENT MARKING LEGEND

1. LANE LINES, WHITE, 6" WIDE
2. EDGE LINE, WHITE, 6" WIDE
3. CHANNELIZING LINE, WHITE, 8" WIDE
4. CROSS-HATCHING LINE, WHITE, 4" WIDE (25' SPACING)
5. EXTENSION LINE, WHITE, 8" WIDE
6. DOTTED LANE LINE, WHITE, 4" WIDE
7. CENTER LINE, DOUBLE YELLOW, 4" WIDE
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12. SCHOOL
13. BICYCLE & ARROW SYMBOL
14. BICYCLE & ARROW SYMBOL W/ GREEN BACKGROUND
15. CROSSWALK MARKINGS, 2' X 9'
16. YIELD LINE, 16" X 24" TRIANGLES
17. EDGE LINES, WHITE, 4" WIDE

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

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File Name: 23916SS_02-04_Pn.dgn
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31ST ST & FONTANERO ST
SIGNING AND STRIPING PLAN

Designer: EJL
Detailer: AMG
Sheet Subset: SS-Pn
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 4 of 6

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

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Know what's below. Call before you dig.



SEE SHEET 4 OF 6

PAVEMENT MARKING LEGEND

1. LANE LINES, WHITE, 6" WIDE
2. EDGE LINE, WHITE, 6" WIDE
3. CHANNELIZING LINE, WHITE, 8" WIDE
4. CROSS-HATCHING LINE, WHITE, 4" WIDE (25' SPACING)
5. EXTENSION LINE, WHITE, 8" WIDE
6. DOTTED LANE LINE, WHITE, 4" WIDE
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15. CROSSWALK MARKINGS, 2' X 9'
16. YIELD LINE, 16" X 24" TRIANGLES
17. EDGE LINES, WHITE, 4" WIDE

N
0' 25' 50' 100'
1 INCH = 50 FEET (FULL SCALE 11"X17")

NOTE: ALL EXISTING SIGNS AND PAVEMENT MARKINGS NOT SHOWN IN THIS PLAN SHALL BE PROTECTED IN PLACE.

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31ST ST & FONTANERO ST
SIGNING AND STRIPING PLAN

Designer: EJL
Detailer: AMG
Sheet Subset: SS-Pn
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 5 of 6

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

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Know what's below. Call before you dig.

0' 25' 50' 100'
1 INCH = 50 FEET (FULL SCALE 11"X17")

Garden of the Gods →
Rock Ledge Ranch →
Flying W Ranch →
D1-3 (REPLACE EXISTING PANEL)

SEE SHEET 1 OF 6

STA. 32+00.00

STA. 39+50.00

CAMP CREEK

MATCH EXISTING

MATCH EXISTING

N 31st ST SB

MATCH EXISTING

INSTALL FLEXIBLE DELINEATORS (x6)

12' MIN

HCL N 31st ST

MATCH EXISTING

N 31st ST NB

12' MIN

SEE SHEET 1 OF 6

FROM

TO

PAVEMENT MARKING LEGEND

1. LANE LINES, WHITE, 6" WIDE
2. EDGE LINE, WHITE, 6" WIDE
3. CHANNELIZING LINE, WHITE, 8" WIDE
4. CROSS-HATCHING LINE, WHITE, 4" WIDE (25' SPACING)
5. EXTENSION LINE, WHITE, 8" WIDE
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13. BICYCLE & ARROW SYMBOL
14. BICYCLE & ARROW SYMBOL W/ GREEN BACKGROUND
15. CROSSWALK MARKINGS, 2' X 9'
16. YIELD LINE, 16" X 24" TRIANGLES
17. EDGE LINES, WHITE, 4" WIDE

NOTE: ALL EXISTING SIGNS AND PAVEMENT MARKINGS NOT SHOWN IN THIS PLAN SHALL BE PROTECTED IN PLACE.

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Horiz. Scale: 1:50	Vert. Scale:
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31ST ST & FONTANERO ST SIGNING AND STRIPING PLAN

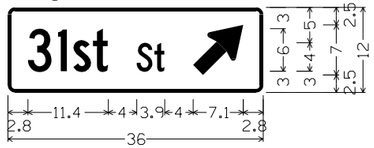
Designer:	EJL	Structure Numbers	CSG-E.00-10.57A
Detailer:	AMG		
Sheet Subset:	SS-Pn	Subset Sheets:	6 of 6

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

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Know what's below. Call before you dig.

Signs #12 & 31



1.0" Radius, 0.5" Border, White on Green;
"31st St", C 2K;
Standard Arrow Custom 9.0" X 5.4" 45 33/64;
Table of letter and object lefts

3	l	s	t	S	t	↗
2.8	7.1	9.2	12.0	18.2	20.7	26.1

Signs #47 & 73

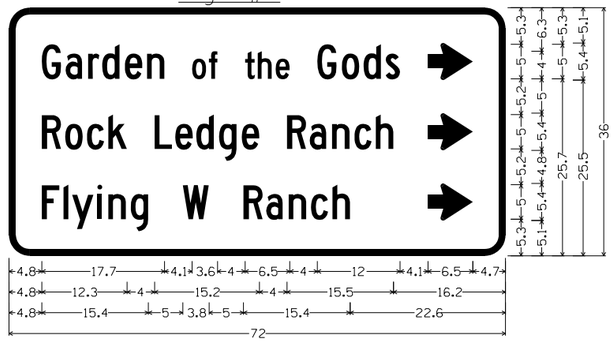


1.0" Radius, 0.5" Border, White on Green;
"Fontanero St", C 2K;
Standard Arrow Custom 9.0" X 5.4" 45 33/64;
Table of letter and object lefts

F	o	n	t	a	n	e	r	o
3.1	6.7	10.7	14.3	16.7	20.6	24.5	28.4	30.8

S	t	↗
36.9	39.4	43.8

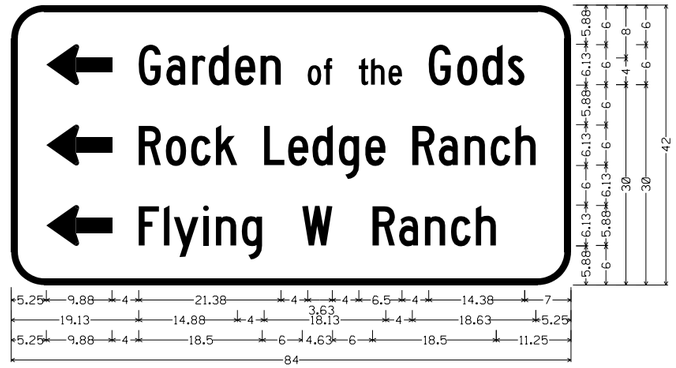
Sign #3



3.0" Radius, 1.0" Border, White on Brown;
"Garden of the Gods", C 2K; Standard Arrow Custom 6.5" X 5.4" Ø 33/64;
"Rock Ledge Ranch ", C 2K; Standard Arrow Custom 6.5" X 5.4" Ø 33/64;
"Flying W Ranch", C 2K; Standard Arrow Custom 6.5" X 5.4" Ø 33/64;
Table of letter and object lefts

G	a	r	d	e	n	o	f	t	h	e	G	o	d	s	→							
4.8	8.2	11.5	13.5	16.8	20.0	26.6	29.0	34.2	36.1	38.7	44.7	48.3	51.4	54.6	60.8							
R	o	c	k	L	e	d	g	e	R	a	n	c	h	→								
4.8	8.1	11.3	14.4	21.1	24.1	27.1	30.4	33.8	40.3	43.6	46.9	50.1	53.2	60.8								
F	l	y	i	n	g	W	R	a	n	c	h	→										
4.8	7.9	9.1	12.8	14.4	17.6	25.2	34.0	37.3	40.5	43.8	46.9	60.8										

Sign #52



5.00" Radius, 1.00" Border, White on Brown;
Standard Arrow Custom 9.88" X 6.13" 180 33/64; "Garden of the Gods", C 2K;
Standard Arrow Custom 9.88" X 6.13" 180 33/64; "Rock Ledge Ranch", C 2K;
Standard Arrow Custom 9.88" X 6.13" 180 33/64; "Flying W Ranch", C 2K;
Table of letter and object lefts

←	G	a	r	d	e	n	o	f	t	h	e											
5.25	19.13	23.25	27.13	29.63	33.63	37.38	44.50	46.88	52.13	54.00	56.63											
	G	o	d	s																		
	62.63	66.88	70.75	74.50																		
←	R	o	c	k	L	e	d	g	e	R	a	n	c	h								
5.25	19.13	23.25	27.00	30.75	38.00	41.50	45.25	49.13	53.13	60.25	64.13	68.00	72.00	75.63								
←	F	l	y	i	n	g	W	R	a	n	c	h										
5.25	19.13	22.88	24.38	28.75	30.75	34.63	43.63	54.25	58.25	62.13	66.00	69.75										

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File Name: 23916SS_03-01_SplSigns.dgn		Date:	Comments	Init.	
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31ST ST & FONTANERO ST
SIGN LAYOUTS

Designer:	EJL	Structure Numbers	CSG-E.00-10.57A
Detailer:	AMG		
Sheet Subset:	SS-SPL	Subset Sheets: 1 of 1	

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

TABULATION OF TRAFFIC CONTROL ITEMS
(FOR INFORMATION ONLY)

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL	
			PLAN	FINAL
100-00007	TRAFFIC CONTROL INSPECTION	DAY	70	
100-00012	TRAFFIC CONTROL MANAGEMENT	DAY	175	
100-80355	PORTABLE MESSAGE SIGN PANEL	EACH	5	
627-00013	PAVEMENT MARKING PAINT (HIGH BUILD)	GAL	40	
630-00000	FLAGGING	HOUR	160	
630-80001	FLASHING BEACON (PORTABLE)	EACH	10	
630-80335	BARRICADE (TYPE 3 M-A) (TEMPORARY)	EACH	20	
630-80340	PEDESTRIAN BARRICADE (ADA)	LF	150	
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	150	
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	25	
630-80350	VERTICAL PANEL	EACH	50	
630-80360	DRUM CHANNELIZING DEVICE	EACH	150	
630-80370	BARRIER (TEMPORARY)	LF	100	
630-80380	TRAFFIC CONE	EACH	200	

NOTE: TEMPORARY TRAFFIC CONTROL TO BE PAID AS 830-10000 TRAFFIC CONTROL, LS

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31ST ST & FONTANERO ST
TRAFFIC CONTROL TABULATION

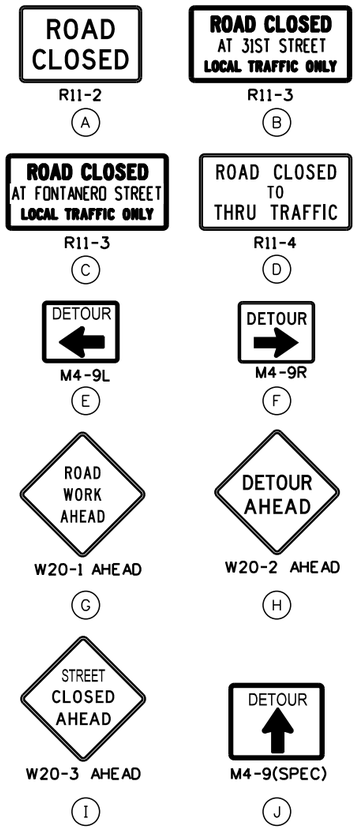
Designer: EJL
Detailer: VAH
Sheet Subset: TCP-TAB
Structure Numbers: CSG-E.00-10.57A
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Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

Know what's below. Call before you dig.

LEGEND:

- CLOSURE AREA
- TEMPORARY SIGN
- VMS
- DETOUR ROUTE (PRIMARY)
- DETOUR ROUTE (SECONDARY)
- TYPE 3 M-B BARRICADE
- DETOUR DIRECTION





0' 250' 500' 1000'

1 INCH - 500 FEET (FULL SCALE 11"X17")

NOTES:

1. THE DETOUR PLAN DEPICTED HERE IS NOT INTENDED TO IDENTIFY ALL SIGNS AND TRAFFIC CONTROL DEVICES THAT MAY BE NECESSARY TO ESTABLISH THE DETOUR ROUTE AND CONTROL TRAFFIC DURING CONSTRUCTION. ADDITIONAL SIGNS AND OTHER DEVICES WILL BE REQUIRED.
2. 31ST ST SHALL BE RECONFIGURED TO ALLOW FOR BI-DIRECTIONAL TRAFFIC ON BOTH SIDES OF THE CREEK FOR LOCAL TRAFFIC ONLY, WHICH IS NECESSARY TO MAINTAIN PROPERTY ACCESS WHILE 31ST/FONTANERO IS CLOSED. THE LIMITS OF THE BI-DIRECTIONAL CONVERSION ARE EXPECTED TO BE PLATTE AVE TO WESTMOOR DR ON THE EAST SIDE OF THE CREEK AND WESTMOOR DR TO VALLEY RD ON THE WEST SIDE OF THE CREEK. EXISTING PAVEMENT MARKINGS SHALL BE REMOVED AND TEMPORARY PAVEMENT MARKINGS SHALL BE APPLIED. PAVEMENT MARKINGS SHALL BE RESTORED TO THE EXISTING CONFIGURATION PRIOR TO RE-OPENING 31ST/FONTANERO. CONTRACTOR SHALL PREPARE MHT'S THAT SHOW ALL PAVEMENT MARKINGS AND SIGNING NEEDED FOR THIS TEMPORARY TRAFFIC CONTROL SETUP, INCLUDING THAT NEEDED TO PROHIBIT PARKING ALONG 31ST ST.
3. WHILE THIS DETOUR IS IN PLACE, THE WEST LEG OF UINTAH ST AT ITS INTERSECTION WITH 30TH ST SHALL BE CLOSED TO TRAFFIC. THE STOP SIGN AND STOP LINE PAVEMENT MARKING ON THE SB APPROACH OF 30TH ST SHALL BE TEMPORARILY RELOCATED TO THE SOUTH. CONTRACTOR SHALL PREPARE AN MHT TO SHOW THIS SETUP.

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31ST ST & FONTANERO ST TRAFFIC DETOUR PLAN ROADWAY				Project No./Code
Designer: EJL	Structure Numbers	CSG-E.00-10.57A		Project #STU-M240-203
Detailer: VAH				Bid #__-__
Sheet Subset: TCP	Subset Sheets: 1 of 3			Sheet Number

Know what's below. Call before you dig.

LEGEND:

- CLOSURE AREA
- TEMPORARY SIGN
- PEDESTRIAN DETOUR PATH
- PEDESTRIAN BARICADE

SIDEWALK CLOSED
R9-9
(A)

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11a
(B)

W11-2
(C)

W16-7pL
(D)

AHEAD
W16-9p
(E)

DETOUR
M4-9bR
(F)

DETOUR
M4-9bL
(G)

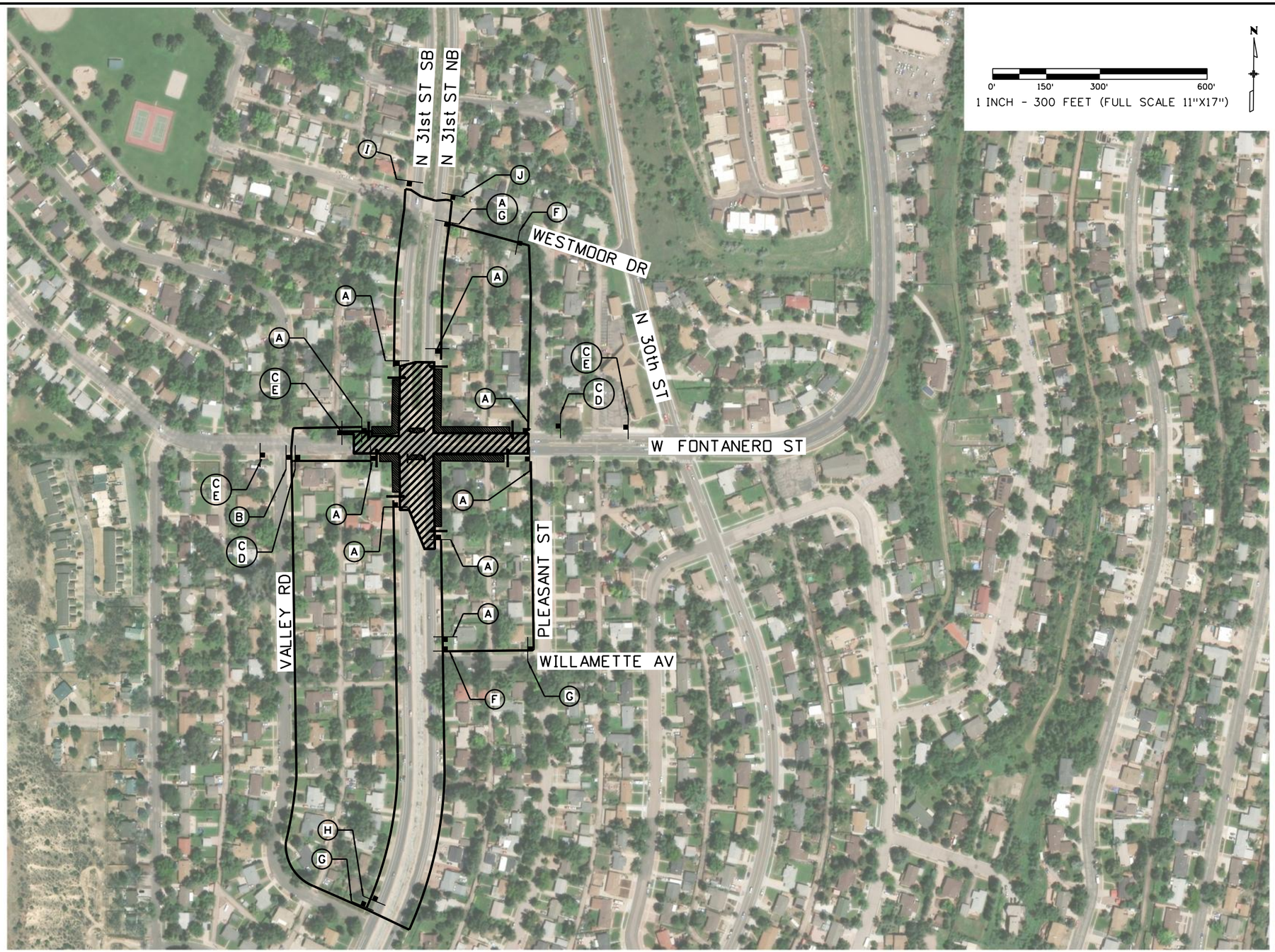
SIDEWALK CLOSED AHEAD
CROSS HERE FOR EAST SIDE OF 31ST ST
R9-11a(MOD)
(H)

SIDEWALK CLOSED AHEAD
CROSS HERE FOR EAST SIDE OF 31ST ST
R9-11a(MOD)
(I)

SIDEWALK CLOSED AHEAD
CROSS HERE FOR WEST SIDE OF 31ST ST
R9-11a(MOD)
(J)

NOTES:

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No Revisions:
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31ST ST & FONTANERO ST TRAFFIC DETOUR PLAN PEDESTRIAN

Designer:	EJL	Structure Numbers	CSG-E.00-10.57A
Detailer:	VAH		
Sheet Subset:	TCP	Subset Sheets: 2 of 3	

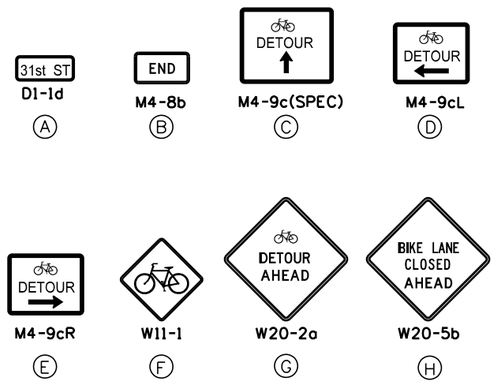
Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

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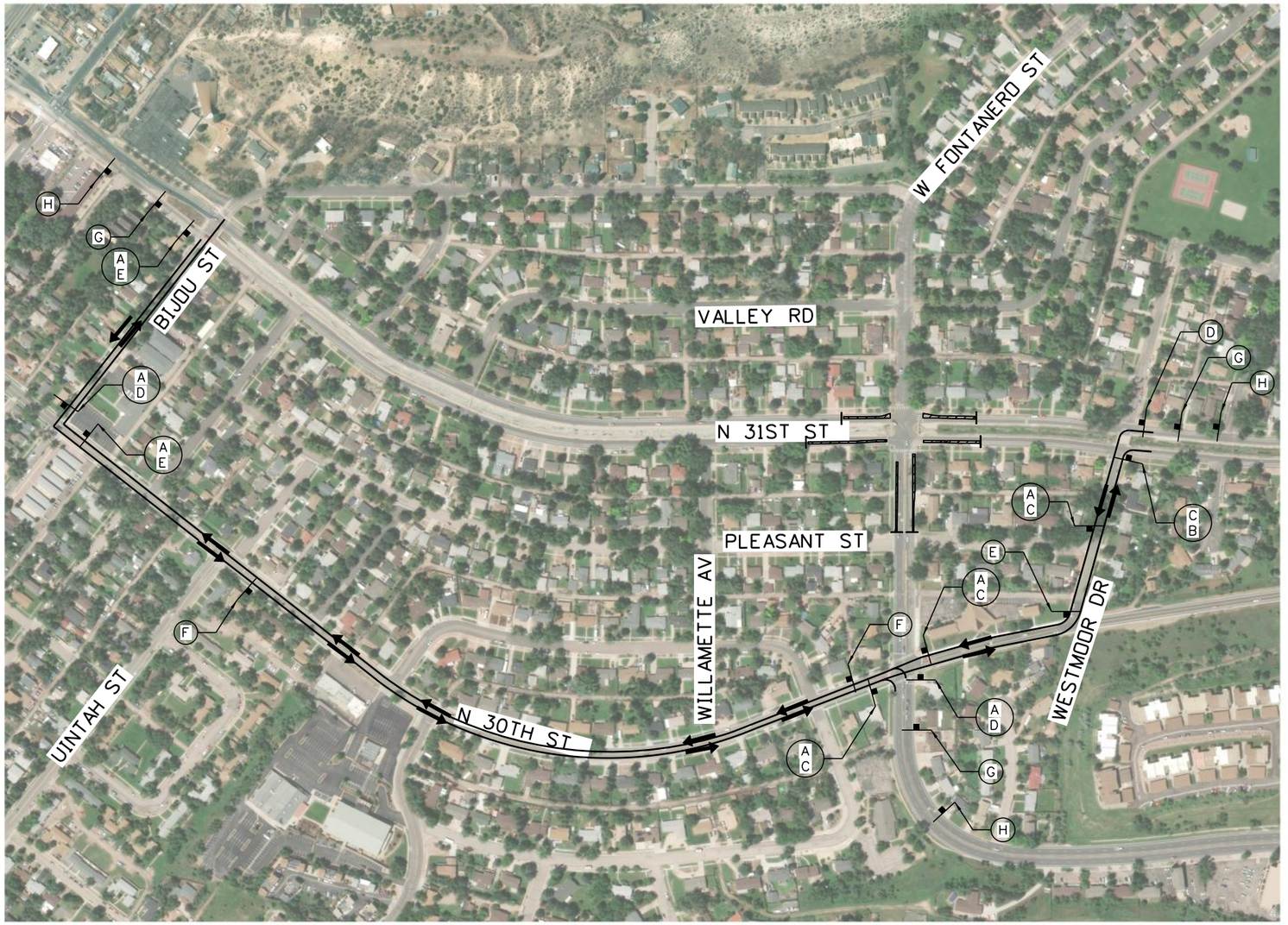
LEGEND:

- CLOSURE AREA
- TEMPORARY SIGN
- BIKE DETOUR PATH
- TYPE 3 M-B BARRICADE
- DETOUR DIRECTION



NOTES:

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0' 200' 400' 800'

1 INCH - 400 FEET (FULL SCALE 11"X17")

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31ST ST & FONTANERO ST TRAFFIC DETOUR PLAN BIKE

Designer:	EJL	Structure Numbers	CSG-E.00-10.57A
Detailer:	VAH		
Sheet Subset:	TCP	Subset Sheets: 3 of 3	

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

GENERAL NOTES:

1. COORDINATE POLE, FOUNDATION, POWER SOURCES, AND CONDUIT LOCATIONS WITH ALL OTHER DISCIPLINES, COLORADO SPRINGS UTILITIES, AND EXISTING CONDITIONS.

2. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO THE 2023 NATIONAL ELECTRICAL CODE AND COLORADO SPRINGS UTILITIES STANDARDS.

3. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY, PRIOR TO INSTALLATION.

4. COORDINATE CONSTRUCTION SEQUENCE WITH ALL DISCIPLINES.

5. PROVIDE HEAVY DUTY WEATHER-TIGHT JUNCTION AND PULL BOXES AS REQUIRED FOR CONDUCTOR PULLING AND SPLICING.

6. COLORADO SPRINGS UTILITIES SHALL PROVIDE TRANSFORMER. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT.

7. ALL LUMINAIRES, POLES, AND WIRING PROVIDED AND INSTALLED BY COLORADO SPRINGS UTILITIES.

8. COORDINATE EXACT LOCATION OF TRANSFORMER AND POINT OF SERVICES WITH COLORADO SPRINGS UTILITIES.

9. FIXTURE SHALL BE LOCATED BY THE OFFSET AND STATIONING ON THE LUMINAIRE INFORMATION TABLE OR AS SHOWN ON PLANS. FOUNDATION ELEVATIONS SHALL BE DETERMINED BY THE CONTRACTOR. TOP OF THE FOUNDATION SHALL BE 2-INCHES ABOVE THE FINAL GRADE.

10. ALL CONDUIT, PULL BOXES, POLE FOUNDATIONS, AND ANCHORS/SCREWS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.

11. CONTRACTOR SHALL COORDINATE FINAL LOCATION, CONDUIT ROUTING, AND JUNCTION BOX LOCATIONS TO STAY WITHIN PROJECT RIGHT-OF-WAY LINES.

12. CONTRACTOR IS RESPONSIBLE FOR MAKING ALL DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

13. FOUNDATIONS - FOLLOW CDOT STANDARDS, SEE CDOT STANDARD PLAN NO. S-613-1.

14. WIRE SIZES SHOWN ON THE PLAN DRAWINGS ARE A MINIMUM SIZE. LARGER CONDUCTORS MAY BE USED AT THE CONTRACTORS DISCRETION.

15. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. ACTUAL CONDUIT ROUTING WILL BE DETERMINED IN THE FIELD BY THE ENGINEER AND THE CONTRACTOR.

16. ALL CABLE AND VOLTAGE DROP CALCULATIONS ARE BASED ON COPPER CONDUCTORS.

17. CIRCUITS SHALL INCLUDE A GROUND CONDUCTOR. GROUND CONDUCTOR SHALL BE THE SAME SIZE AS THE PHASE CONDUCTORS. PROVIDE GROUND AT EACH LIGHT POLE PER COLORADO SPRINGS UTILITIES.

GENERAL NOTES:

COBRA HEAD LED, TYPE II FULL CUT OFF FIXTURE ON POLE WITH 6'-0" MAST ARM. PER CDOT STANDARD PLAN NO. S-613-1. SEE NOTES 7 & 10.

—— E —— SCH40 PVC OR HDPE ELECTRICAL CONDUIT(S) AND CONDUCTOR PER THE LIGHTING PLANS. SEE NOTES 7 & 10.

PULL BOX, POLYMER CONCRETE W/OPEN BOTTOM PER CDOT STANDARD PLAN NO. S-613-1. SEE NOTE 10.

COLORADO SPRINGS UTILITIES INSTALLED POLE MOUNTED TRANSFORMER

LIGHTING CONTROL PANEL

CONDUIT CALLOUTS:

N/S (#) CKT

CKT: CIRCUIT NO.
N: NUMBER OF CONDUCTORS (NOTE 17)
S: SIZE OF CONDUCTOR
#: CONDUIT SIZE

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31ST ST & FONTANERO ST
LIGHTING NOTES AND LEGEND

Designer: CAS
Detailer: BKM
Sheet Subset: LTG-GN
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 1

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

TABULATION OF LIGHTING ITEMS			
ITEM NO.	CONTRACT ITEM DESCRIPTION	UNIT	PLAN QUANTITY
813-00214	1-1/4 INCH ELECTRICAL CONDUIT (LIGHTING)	LF	800
813-40010	LIGHT STANDARD FOUNDATION	EACH	8
-	WIRING (SEE NOTE 1)	LS	1
-	POLE AND LUMINAIRE (LED) (SEE SCHEDULES)(SEE NOTE 2)	EACH	8

NOTES:

1. WIRING IS FOR REFERENCE ONLY. ALL WIRING TO BE PROVIDED AND INSTALLED BY CSU.
2. DESIGN BASED ON CDOT ITEM NUMBER 613-30350. POLE AND LUMINAIRE PROVIDED AND INSTALLED BY CSU.

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31ST ST & FONTANERO ST
LIGHTING TABULATION

Designer: CAS
Detailer: BKM
Sheet Subset: LTG-TAB
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 3

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

LUMINAIRE SCHEDULE

				DESIGN	
TYPE	LAMP	VOLTAGE	DESCRIPTION	MANUFACTURER / CAT NO.	MOUNTING
A	LED	120-277	Cobra Head, LED, Full cuttoff Luminaire, w/ symmetric IES Type II Distribution, w/ photocell	ATB0-P302-MVOLT-R2-27K-HSS-P7	Pole Mount 35' Single

NOTE: SCHEDULE FOR INFORMATION ONLY. CSU TO PROVIDE AND INSTALL.

POLE SCHEDULE

				DESIGN	
TYPE	POLE	ARM	DESCRIPTION	ITEM NUMBER	MOUNTING
1	35' SINGLE ARM	6'	35' Mounting height with 6' mast arm	613-30350	Breakaway Base

NOTE: SCHEDULE FOR INFORMATION ONLY. CSU TO PROVIDE AND INSTALL.

LUMINAIRE INFORMATION TABLE

POLE NUMBER	ALIGNMENT	LCC	STATION	OFFSET	LUMINAIRE TYPE	POLE TYPE
P101-1	HCL W FONTANERO ST	P1	16+54.25	30.51' RT	A	1
P101-2	HCL W FONTANERO ST	P1	17+17.78	46.91' RT	A	1
P101-3	HCL W 31ST ST	P1	35+99.27	59.48' LT	A	1
P101-4	HCL W 31ST ST	P1	36+58.18	53.55' LT	A	1
P102-1	HCL W 31ST ST	P2	34+68.17	46.28' RT	A	1
P102-2	HCL W FONTANERO ST	P2	18+46.19	34.35' RT	A	1
P102-3	HCL W 31ST ST	P2	36+19.21	48.49' RT	A	1
P102-4	HCL W FONTANERO ST	P2	18+83.74	35.78' LT	A	1

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31ST ST & FONTANERO ST
LIGHTING SCHEDULES

Designer: CAS
Detailer: BKM
Sheet Subset: LTG-TAB
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 2 of 3

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

P1 - LIGHTING CONTROL CENTER SCHEDULE

120/240 VOLTS, 1 PHASE, 3 WIRE — 60 AMPERES — MAIN CIRCUIT BREAKER — 10,000 AIC
LOCATION - NW ROUNDABOUT — EMD = 2 kVA — ENCLOSURE - NEMA 3R — SURFACE MOUNT

DEMAND LOAD	DEMAND FACTOR	CONNECT LOAD	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	CONNECT LOAD	DEMAND FACTOR	DEMAND LOAD
5.7	1.0	5.7	LIGHT CIRCUIT P101	20/2	1	A	2	15	SPARE	0.0	1.0	0.0
5.7	1.0	5.7			3	B	4	15	SPARE	0.0	1.0	0.0
0.0	1.0	0.0	SPARE	15	5	A	6	15	SPARE	0.0	1.0	0.0
0.0	1.0	0.0	SPARE	15	7	B	8	15	SPARE	0.0	1.0	0.0
0.0	0.5	0.0	SPACE		9	A	10		SPACE			
0.0	0.5	0.0	SPACE		11	B	12		SPACE			
5.7	A	5.7	PANEL		5.7	A	5.7	PANEL		0.0	A	0.0
5.7	B	5.7	CONNECTED AMPS		5.7	B	5.7	DEMAND AMPS		0.0	B	0.0

EST MAX DEMAND = VOLTS x MAX DEMAND AMPS = 240 x 6 = 2 kVA

MINIMUM AMPACITY = 1.25 x MAX DEMAND AMPS = 1.25 x 6 = 7 AMPS

P2 - LIGHTING CONTROL CENTER SCHEDULE

120/240 VOLTS, 1 PHASE, 3 WIRE — 60 AMPERES — MAIN CIRCUIT BREAKER — 10,000 AIC
LOCATION - SE ROUNDABOUT — EMD = 2 kVA — ENCLOSURE - NEMA 3R

DEMAND LOAD	DEMAND FACTOR	CONNECT LOAD	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	CONNECT LOAD	DEMAND FACTOR	DEMAND LOAD
5.7	1.0	5.7	LIGHT CIRCUIT P102	20/2	1	A	2	15	SPARE	0.0	1.0	0.0
5.7	1.0	5.7			3	B	4	15	SPARE	0.0	1.0	0.0
0.0	1.0	0.0	SPARE	15	5	A	6	15	SPARE	0.0	1.0	0.0
0.0	1.0	0.0	SPARE	15	7	B	8	15	SPARE	0.0	1.0	0.0
0.0	0.5	0.0	SPACE		9	A	10		SPACE			
0.0	0.5	0.0	SPACE		11	B	12		SPACE			
5.7	A	5.7	PANEL		5.7	A	5.7	PANEL		0.0	A	0.0
5.7	B	5.7	CONNECTED AMPS		5.7	B	5.7	DEMAND AMPS		0.0	B	0.0

EST MAX DEMAND = VOLTS x MAX DEMAND AMPS = 240 x 6 = 2 kVA

MINIMUM AMPACITY = 1.25 x MAX DEMAND AMPS = 1.25 x 6 = 7 AMPS

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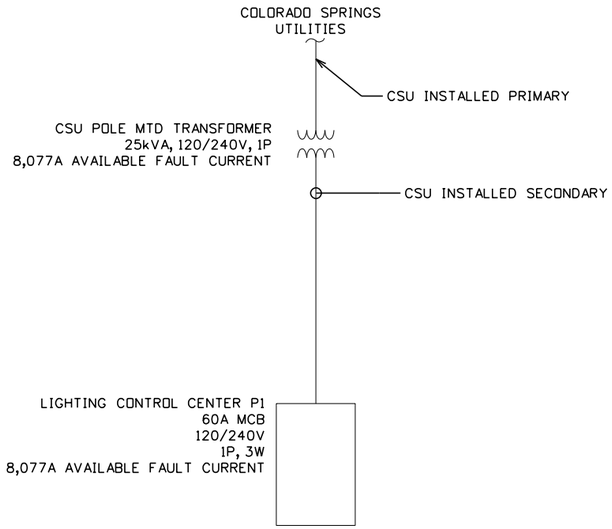
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31ST ST & FONTANERO ST
LIGHTING SCHEDULES

Designer: CAS
Detailer: BKM
Sheet Subset: LTG-TAB
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 3 of 3

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

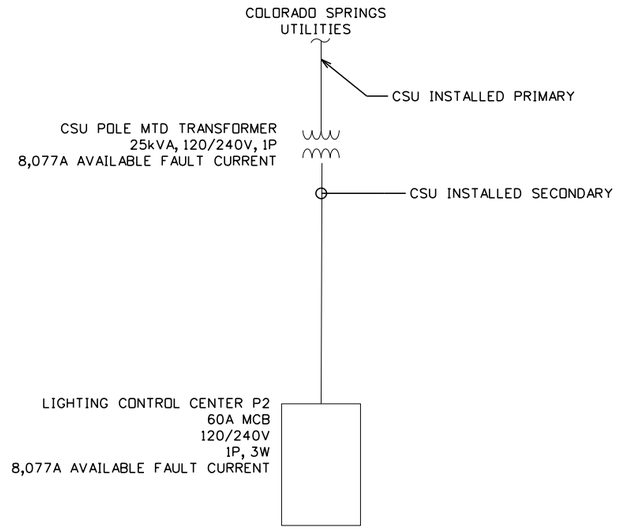
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P1 (@ NW ROUNDABOUT)

STREET LIGHTING SINGLE LINE DIAGRAM

N.T.S.



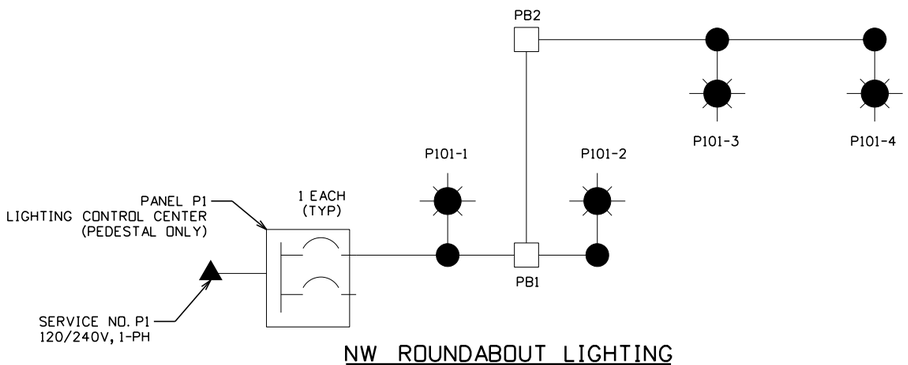
P2 (@ SE ROUNDABOUT)

STREET LIGHTING SINGLE LINE DIAGRAM

N.T.S.

GENERAL NOTE:

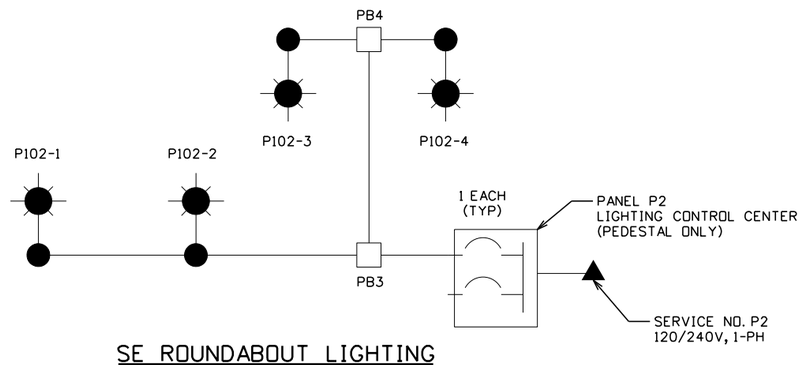
1. CONTRACTOR TO COORDINATE WITH COLORADO SPRINGS UTILITIES TO ROUTE POWER FROM POLE UNDERGROUND TO NEW ROUNDABOUT INTERSECTION LIGHTING. AS SHOWN ON PLANS.



NW ROUNDABOUT LIGHTING

CIRCUIT SINGLE LINE DIAGRAM

N.T.S.



SE ROUNDABOUT LIGHTING

CIRCUIT SINGLE LINE DIAGRAM

N.T.S.

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31ST ST & FONTANERO ST
LINE DIAGRAM

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Detailer:	BKM		
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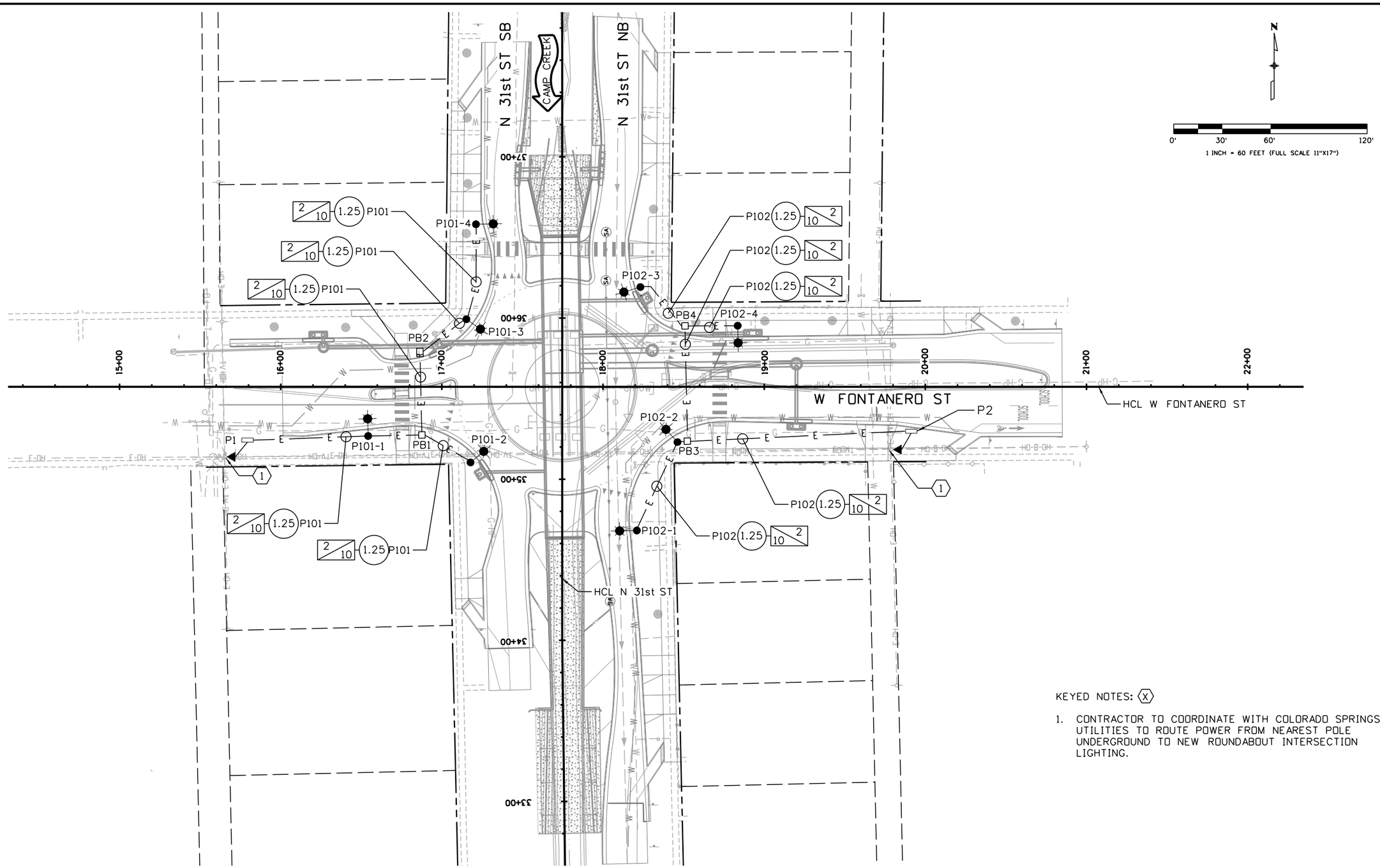
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KEYED NOTES: ⟨X⟩

1. CONTRACTOR TO COORDINATE WITH COLORADO SPRINGS UTILITIES TO ROUTE POWER FROM NEAREST POLE UNDERGROUND TO NEW ROUNDABOUT INTERSECTION LIGHTING.

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31ST ST & FONTANERO ST LIGHTING PLAN

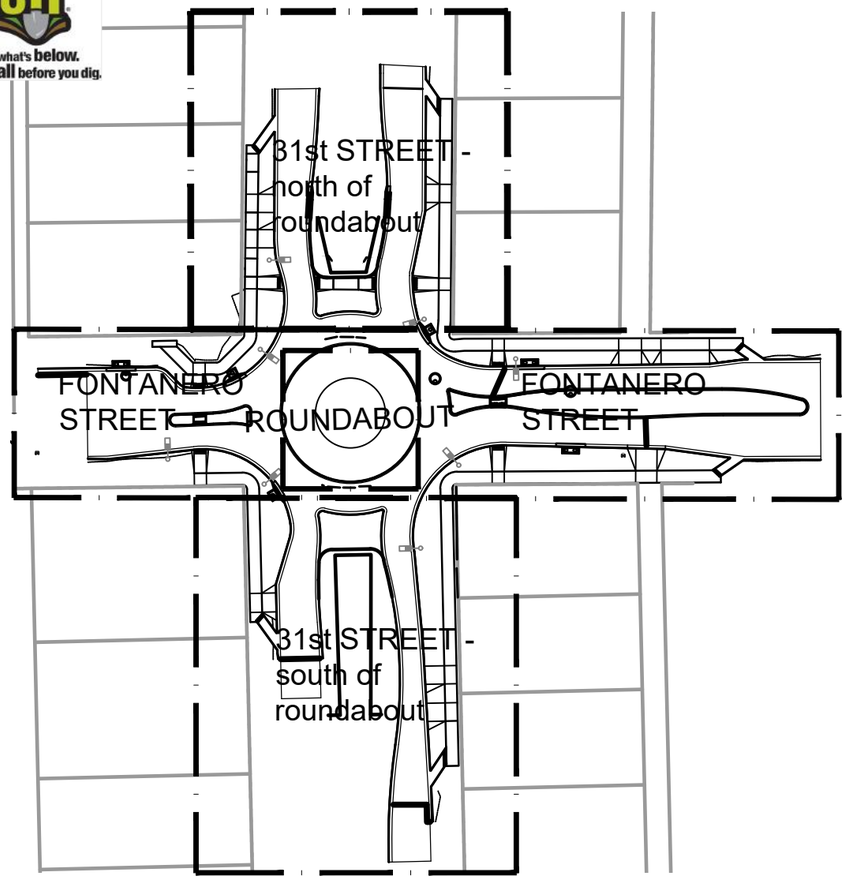
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Detailer:	BKM		
Sheet Subset:	LTG-Pn	Subset Sheets: 1 of 1	

Project No./Code

Project #STU-M240-203

Bid #__-__

Sheet Number



Landscape Sheet Layout Diagram

1' = 100'

LANDSCAPE SHEET LEGEND

L1.0 LANDSCAPE COVER SHEET
L2.0 TREE PROTECTION PLAN
L3.0 STONE BLOCK BAND DETAILS
L4.0 SOIL AMENDMENT PLAN
L5.0 PLANTING NOTES and DETAILS
L5.1 PLANT LIST
L5.2 TREE PLANTING PLAN
L5.3 GROUNDPLANE PLANTING PLAN

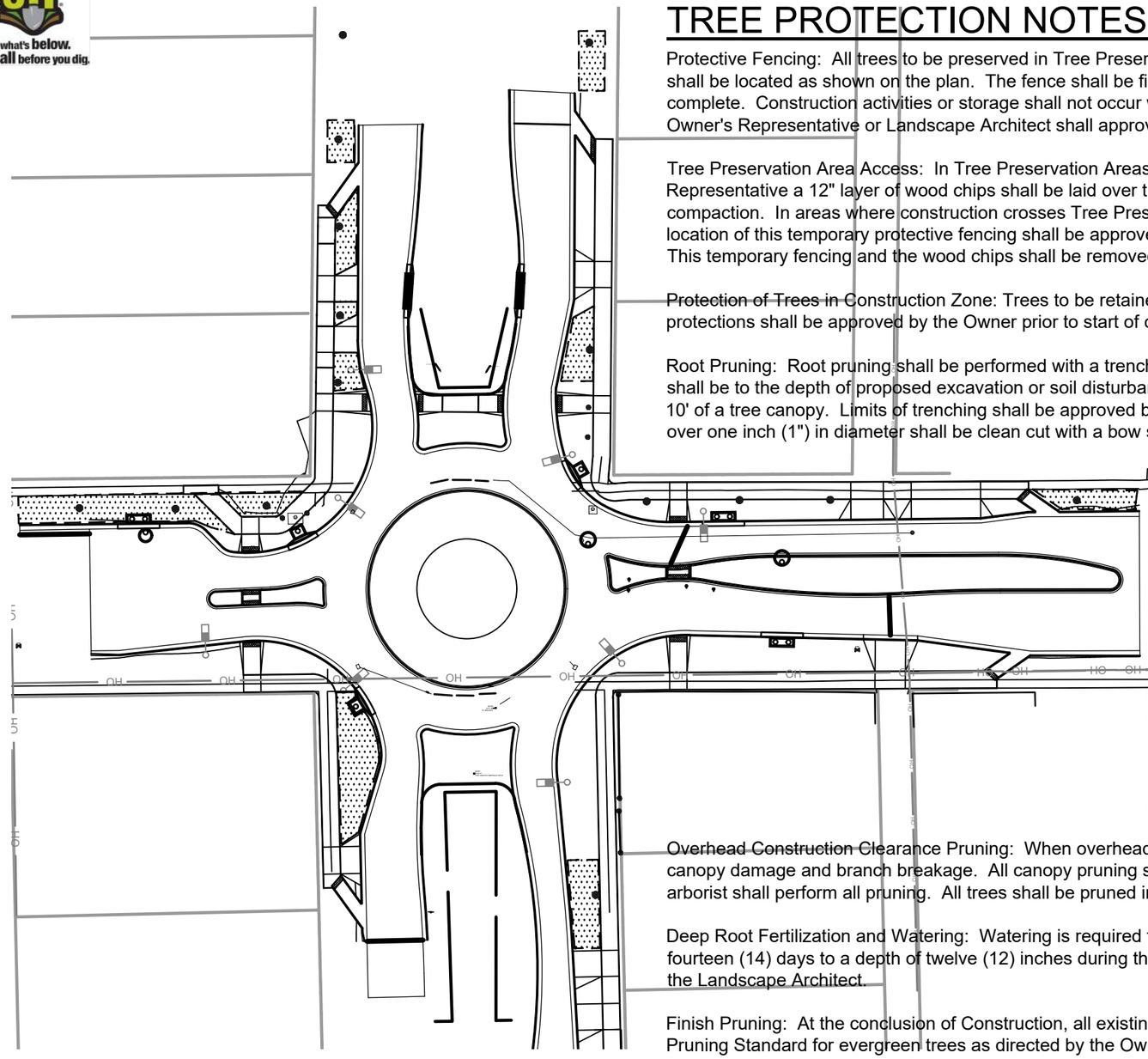
PRISCILLA J MARBAKER 340 02/01/2006 Original Date of Licensure 13 Jan 2026 STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT

TAPS associates

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File Name:		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:	31st Street Roundabout
Horiz. Scale: Vert. Scale:						Revised:	Landscape Cover Sheet
Unit Information Unit Leader						Void:	Designer: PJBM / Detailer: PJBM / Sheet Subset: / Structure Numbers / Subset Sheets: of
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TREE PROTECTION NOTES for TREE PRESERVATION AREAS

Protective Fencing: All trees to be preserved in Tree Preservation Areas shall be protected by 6 foot chain link fencing supported by metal stakes. The fence shall be located as shown on the plan. The fence shall be firmly anchored into the ground and shall remain upright and intact until all construction activity is complete. Construction activities or storage shall not occur within these protected areas. The contractor shall stake the protective fencing location. The Owner's Representative or Landscape Architect shall approve the location of the protective fencing on site prior to the start of any site work.

Tree Preservation Area Access: In Tree Preservation Areas where construction traffic is unavoidable as concurred by the Landscape Architect and Owner's Representative a 12" layer of wood chips shall be laid over the existing grade under the canopies of preserved trees to allay rutting and slightly reduce soil compaction. In areas where construction crosses Tree Preservation Areas, protective fencing shall be installed to delineate the construction corridor. The location of this temporary protective fencing shall be approved on site by the Owners representative or Landscape Architect prior to the start of construction. This temporary fencing and the wood chips shall be removed upon completion of construction in these areas.

Protection of Trees in Construction Zone: Trees to be retained in construction areas shall be protected from damage and root zone compaction. Methods of protections shall be approved by the Owner prior to start of construction.

Root Pruning: Root pruning shall be performed with a trencher such as a telephone cable puller or a "ditch witch" prior to adjacent excavation. The trenching shall be to the depth of proposed excavation or soil disturbance. The contractor shall stake the limit of root pruning where needed in construction areas within 10' of a tree canopy. Limits of trenching shall be approved by the Owners Representative or Landscape Architect prior to any trenching in the field. All roots over one inch (1") in diameter shall be clean cut with a bow saw or similar cutting device to provide a clean cut on the root.

Silt Damage: Silt from run-off settling over the root system of a tree also effectively suffocates the roots by filling and clogging the vital air spaces in the soil. A silt fence attached to the Tree Protection Fencing shall provide siltation control at Tree Preservation Areas. On slopes, the silt fence can be limited to the uphill side of the Tree Preservation Area. Silt control shall be staked, approved and installed before construction begins.

Contractor's Penalty for Negligence: The Owner's Representative primarily and the Landscape Architect secondarily shall monitor the construction site. If, in their opinion, the general contractor, his agents, employees, sub-contractors or licensees are exercising procedures that are determined to be detrimental to the vitality of the trees that are to be preserved, the Owner's Representative or Landscape Architect shall advise the client to issue a "STOP WORK ORDER". If, in the opinion of the landscape architect, City Forester or licensed arborist, the general contractor has damaged a tree beyond its ability to heal, the general contractor shall be required to reimburse the owner at a rate of $1,000.00 per caliper inch for each tree that is damaged or destroyed due to the general contractor's negligent operations. The general contractor shall be responsible for the cost of remedial maintenance of or removal of any damaged tree.

Overhead Construction Clearance Pruning: When overhead equipment will impact tree canopies a licensed arborist shall prune the canopies to prevent canopy damage and branch breakage. All canopy pruning shall be approved by the City Forester and Landscape Architect prior to pruning. A licensed arborist shall perform all pruning. All trees shall be pruned in accordance with the N.A.A. Class I Fine Pruning Standards.

Deep Root Fertilization and Watering: Watering is required for all trees in Tree Preservation Areas. Trees to remain shall be watered every fourteen (14) days to a depth of twelve (12) inches during the construction period or, more frequently if recommended by the City Forester or the Landscape Architect.

Finish Pruning: At the conclusion of Construction, all existing trees to remain shall be pruned in accordance with the N.A.A. Class I Fine Pruning Standard for evergreen trees as directed by the Owners Representative. A licensed arborist shall perform all pruning.

Tree Protection Fencing

1' = 60'

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TAPIS associates

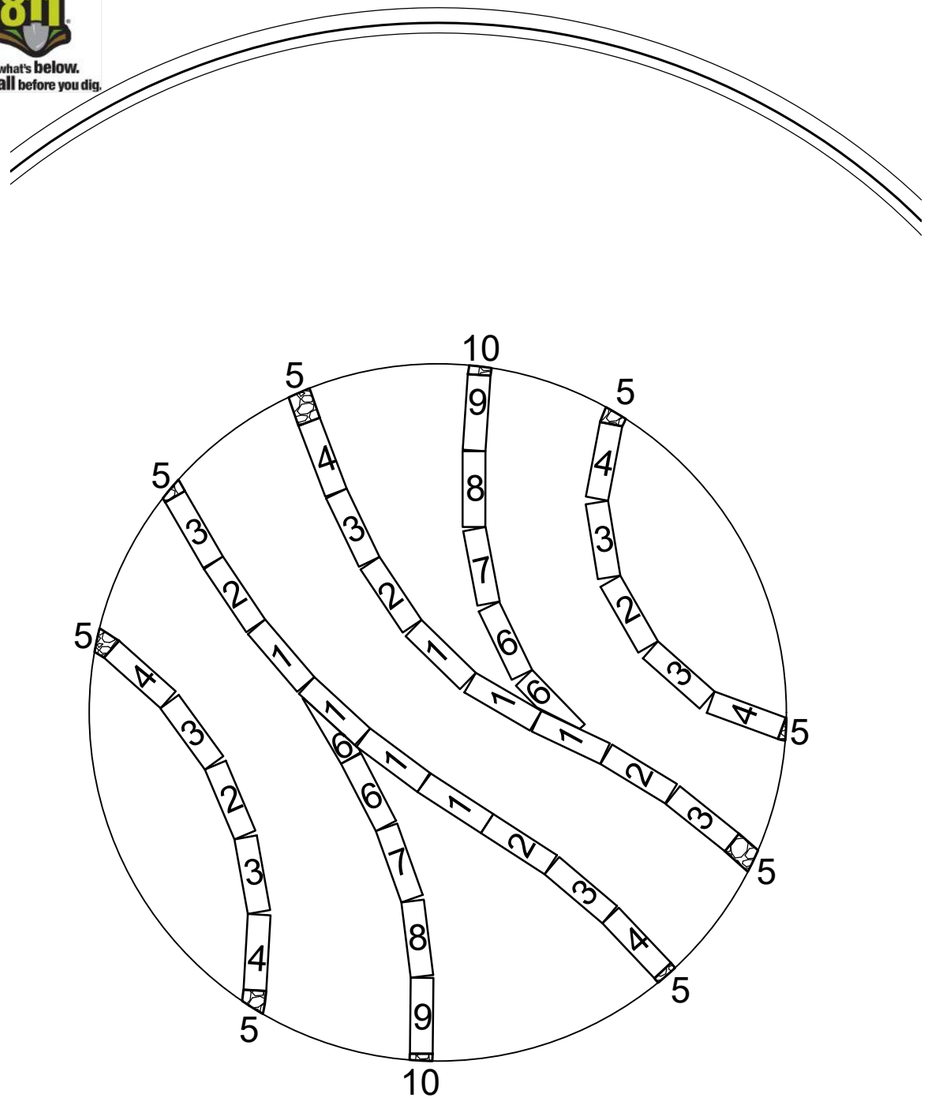
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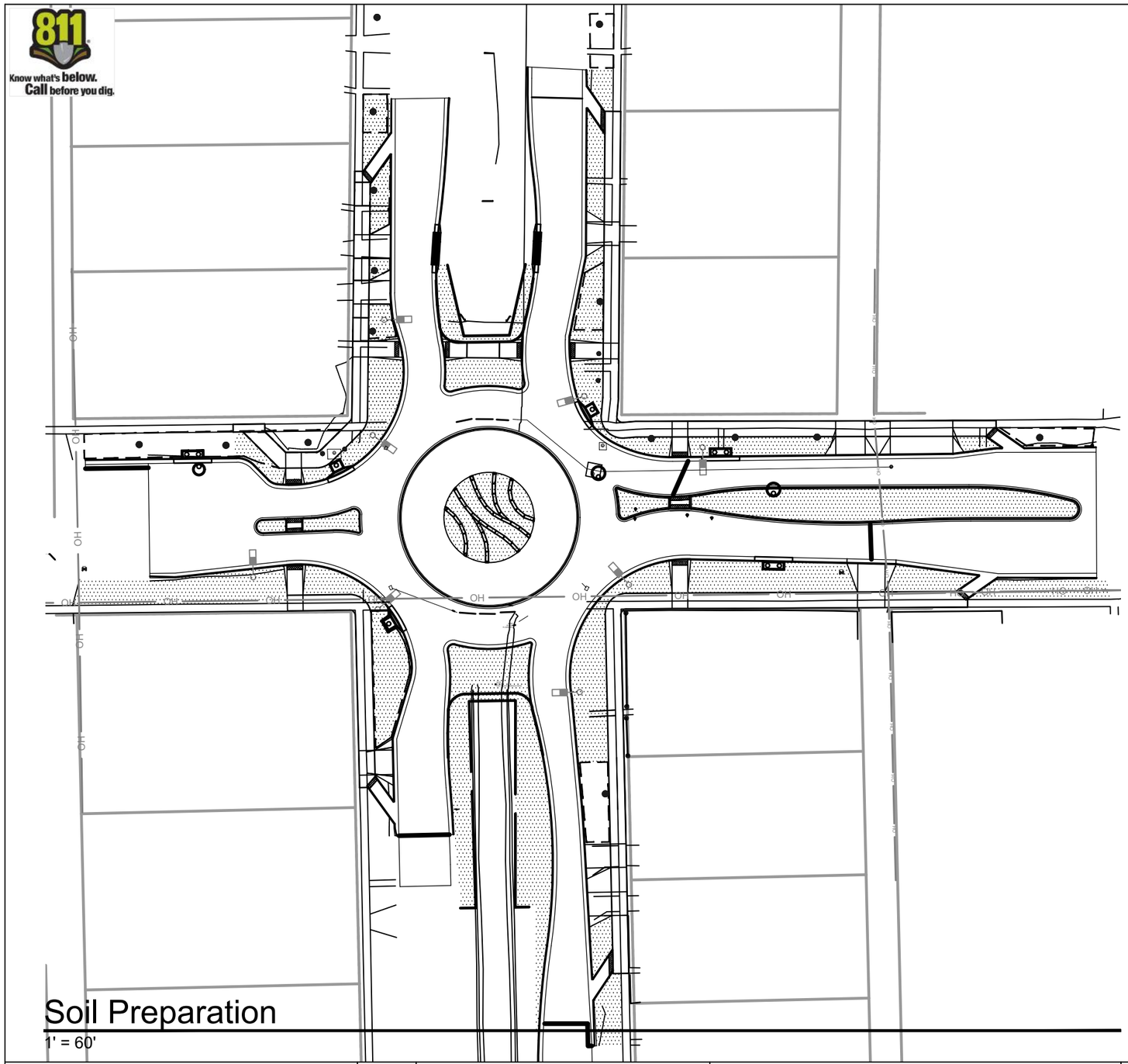
Print Date:		Sheet Revisions			WILSON & COMPANY		31st Street Roundabout	TAPIS 25001R
File Name:		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:	Tree Protection Plan	Project #____-___
Horiz. Scale:	Vert. Scale:					Revised:	Designer: PJBM / Detailer: PJBM / Sheet Subset:	Structure Numbers / Subset Sheets: of	Bid #__-__
Unit Information	Unit Leader					Void:			Sheet Number L2.0
ALL SEALS FOR ROADWAY & TRAFFIC PLAN SETS OR DRAWINGS ARE APPLIED TO THE COVER PAGE.								

COLORADO SPRINGS OLYMPIC CITY USA

R26-T008MZ

811
Know what's below.
Call before you dig.


10
5
5
5



Soil Preparation

1" = 60'

SOIL PREP and AMENDMENT NOTES

GENERAL

1. Contractor shall mark and Owner's Representative shall verify the correct location of all underground utilities in the field prior to commencing work.
2. Amended imported topsoil shall be used to establish final grades within landscape medians.
3. Grade topsoil to eliminate rough, low, or soft areas and to insure positive drainage.
4. Contractor to verify positive drainage in all areas to be planted.
5. Irrigation sleeves shall be placed as indicated on the Irrigation Plans.
6. Contractor shall not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Owner's Representative for decision. The Contractor shall assume full responsibility for all necessary revision due to failure to give such notification.
7. Refer to details and notes for staking method, soil preparation, plant pit dimensions and backfill requirements.

SUBSOIL PERCOLATION and DRAINAGE

1. Testing and application as indicated on the Civil Drawings.

SOIL AMENDMENT

2. Topsoil shall be fertile, agricultural soil imported to the site, free of subsoil, clay, impurities, plants, weeds, and roots. The minimum pH value of 5.4 and a maximum of 7.0.
4. Install Subsoil Percolation and Drainage as required.
5. In the center of the Roundabout, till subsoil in areas to be planted to a depth of 8". Amend subsurface areas to be planted and seeded with 3cy/1000sf composted manure incorporated to a depth of 8". Throughout the roundabout planting bed, topsoil to be placed to a minimum depth of 20". Establish topsoil height 2" below top of splash guard or top of curb at all edges. Create a topsoil mound rising from the top of splash guard to the roundabout center 12" above the top of splash guard.
6. Except in Tree Preservation Areas, till subsoil in areas to be planted to a depth of 8". Amend subsurface areas to be planted and seeded with 3cy/1000sf composted manure incorporated to a depth of 8".
7. In Tree Preservation Areas, till subsoil to a depth of 4". Amend subsurface areas to be planted or seeded with 2 cy/1000sf composted manure incorporated to a depth of 4".
8. All medians, parkways, roundabout and private property areas to be planted or restored shall receive 2" depth of premium compost prior to planting. This application will establish prime conditions for beneficial mycorrhizal fungi development. Do not overwork the soil. This 2" of compost will be adequately incorporated during planting.

PRISCILLA J MARBAKER 340 — 02/01/2008 — Original Date of Licensure 13 Jan 2026 — STATE OF COLORADO — REGISTERED LANDSCAPE ARCHITECT

TAPS associates

Colorado Springs
719.593.1540

Print Date:		Sheet Revisions				31st Street Roundabout	TAPIS 25001R
File Name:		Date:	Comments	Init.	No Revisions:	Soil Amendment Plan	Project #____-___
Horiz. Scale:	Vert. Scale:				Revised:	Designer: PJBM / Detailer: PJBM / Sheet Subset:	Structure Numbers / Subset Sheets: of	Bid #__-__
Unit Information	Unit Leader				Void:			Sheet Number L4.0
ALL SEALS FOR ROADWAY & TRAFFIC PLAN SETS OR DRAWINGS ARE APPLIED TO THE COVER PAGE.							

COLORADO SPRINGS OLYMPIC CITY USA

WILSON & COMPANY
5755 Mark Dabling Blvd.
Suite 100
Colorado Springs, CO 80919
Phone: 719-520-5800
FAX: 719-520-0108

Planting Notes

GENERAL

a. All plant material shall conform to the sizes given in the plant list and shall be nursery grown in accordance with the "American Standard for Nursery Stock", latest edition. www.anla.org

b. All planting shall be in accordance with standard American Association of Nurserymen procedures and specifications.

c. Contractor shall mark and Owner's Representative shall verify the correct location of **all** underground utilities in the field prior to installation of any plant materials.

d. Contractor shall be responsible for the safety of those associated with the work, pedestrians and the general public throughout the duration of the contract.

e. Quantities shown on plant list are for the Contractor's convenience only and are not guaranteed to be accurate. In the event of a discrepancy between quantities shown on the plan and quantities shown on the plant list, the quantities on the plan shall apply.

f. Contractor shall not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Owner's Representative for decision. The Contractor shall assume full responsibility for all necessary revision due to failure to give such notification.

g. Contractor is responsible for installing all landscape shown on this plan. Any changes from the approved plans may require approval from the City of Colorado Springs.

h. Contractor shall provide a two year warranty and full landscape maintenance on all plant material, mulch, workmanship and to include two years of establishment watering. Replacement plant material shall be of the same species and size as the decayed or dead plant material. Replacements shall occur in the two spring and two fall planting seasons of the 2 year warranty period and prior to final acceptance. If needed, individual plants may require 2 or 5 replacements. All maintenance should be in accordance with standards specified in the “ALCC Specifications Handbook” - latest edition.

i. Contractor shall refer to the specifications provided for this project.

j. Contractor is responsible for contacting the landscape architect for all required inspections. Provide at least 48 hours notice to schedule inspections. Required inspections include planting bed layout, landscape layout, plant material verification and placement inspection prior to planting, punch list inspection, and a landscape final inspection.

PLANTING

a. Obtain approval from Landscape Architect or Owner's Representative before making any substitutions or changes.

b. Plant material location to be staked in the field and approved by the Landscape Architect or Owner's Representative prior to planting.

c. All shrubs and groundcovers shall be triangularly spaced, with spacing as shown in the drawings, unless otherwise noted in the planting legend.

d. Planting shall not be started until final subgrade has been established and approved by the Civil Engineer, Landscape Architect and Owner's Representative.

e. Under no condition shall work be done if the weather or soil conditions are not satisfactory.

f. Place plants for best appearance for review and final orientation by Landscape Architect or Owner's Representative.

g. Refer to details and notes for staking method, soil preparation, plant pit dimensions and backfill requirements.

MULCH and EDGING

h. All areas are to receive 4” depth shredded wood mulch. All mulched beds are to be sprayed with water after installation to help mulch mat down. All trees to receive 5' diameter wood mulch ring.

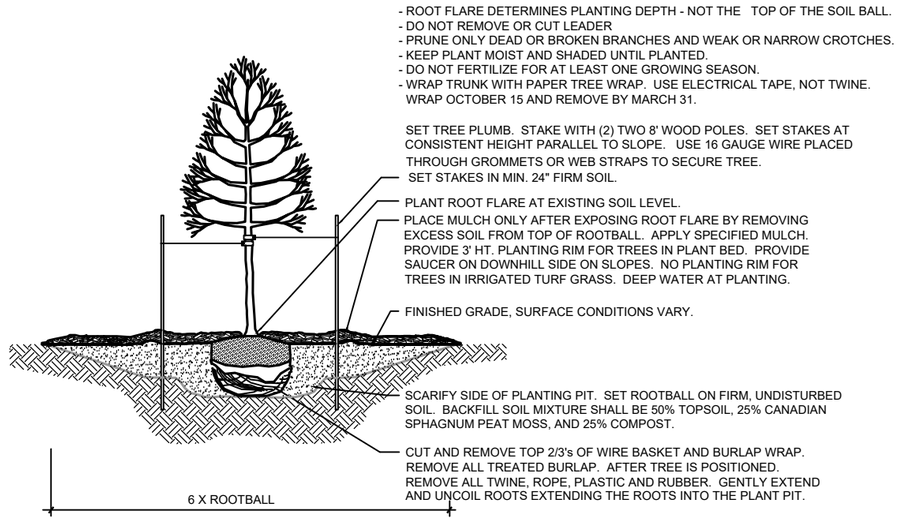
i. All areas noted to receive stone mulch shall include nonwoven geotextile and 1.5-3” diameter river rock stone mulch to 5” depth, unless otherwise noted on the plans.

j. Stone Block Band features in the roundabout shall be per the detail on Sheet L3.0.

FINISHING

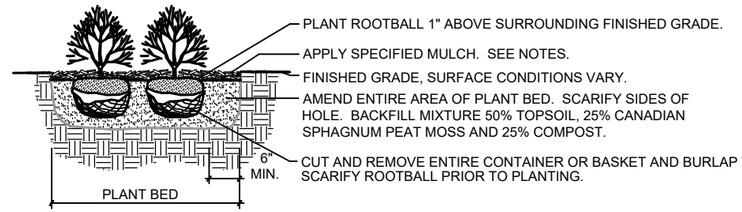
k. All disturbed areas shall be fine graded and finished as noted on the Plan.

l. After the Warranty Period, the Property Owner and any future Owners are responsible for the proper landscape and irrigation maintenance of this site and any rights-of-way between the curb and property lines of the site. Maintenance of this site includes, but is not limited to: hand watering to maintain the plant material, landscape weeding, mowing, seeding, fertilization, wood mulch, and rock cover replacement, pruning, and plant material replacement. All maintenance should be in accordance with standards specified in the “ALCC Specifications Handbook” - latest edition.



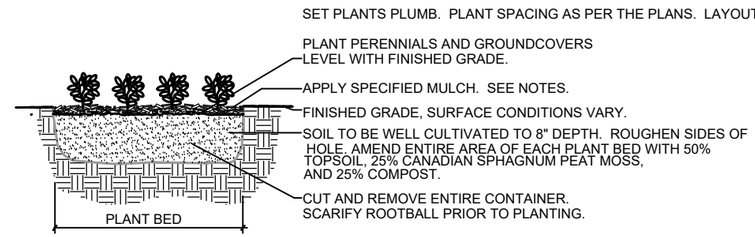
Tree Planting Detail

no scale section



Shrub Planting Detail

no scale section



Perennial Planting Detail

no scale section

PRISCILLA J MARBAKER 340 02/01/2026 Original Date of Licensure 13 Jan 2026 STATE OF COLORADO REGISTERED LANDSCAPE ARCHITECT

TAPS associates
Colorado Springs
719.593.1540

Print Date:		Sheet Revisions			COLORADO SPRINGS OLYMPIC CITY USA		31st Street Roundabout	TAPIS 25001R
File Name:		Date:	Comments	Init.	WILSON & COMPANY 5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:	Planting Notes and Details	Project #____-___
Horiz. Scale:	Vert. Scale:					Revised:	Designer: PJBM / Detailer: PJBM	Bid #__-__
Unit Information	Unit Leader					Void:	Sheet Subset: / Structure Numbers / Subset Sheets: of	Sheet Number L5.0
ALL SEALS FOR ROADWAY & TRAFFIC PLAN SETS OR DRAWINGS ARE APPLIED TO THE COVER PAGE.								

PLANT LIST

Know what's below. Call before you dig.

DECIDUOUS TREES

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE	NOTES
CC	4	Corylus colurna Turkish Filbert	2.0" cal.	Full; Straight leader; B&B
CA	2	Crataegus ambigua Russian Hawthorn	6' hgt.	Full; B&B 5-7 min. 1 1/2" cal. stems
CCIC	7	Crataegus crus-galli inermis CRUSADER Thornless Coskspur Howthorn	6' hgt.	Full; B&B single trunk
CO	2	Celtis occidentalis Hackberry Tree	2.0" cal.	Full; Straight leader; B&B
GE	2	Gymnocladus dioica 'Espresso' Kentucky Coffeetree (male)	2.0" cal.	Full; Straight leader; B&B
PN	6	Prunus nigra Princess Kay Plum	2.0" cal.	Full; Straight leader; B&B
PSP	8	Prunus SUCKER PUNCH Sucker Punch Chokecherry	2" cal	Full; B&B single stem
QM	1	Quercus macrocarpa Bur Oak	2.0" cal.	Full; Straight leader; B&B single trunk
QMC	2	Quercus muehlenbergii Chickapin Oak	2.0" cal.	Full; Straight leader; B&B single trunk
QRR	4	Quercus robur 'Rosehill' Rosehill Columnar English Oak	2.0" cal.	Full; Straight leader; B&B 2' branching height
UM	3	Ulmus davidiana var. japonica 'Morton' Accolade American Elm	2.0" cal.	Full; Straight leader; B&B

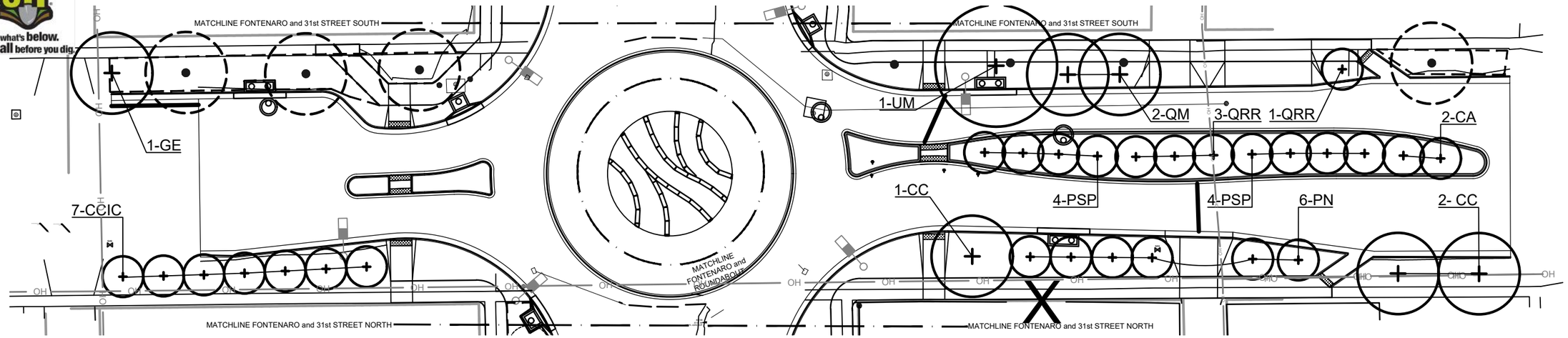
GROUNDPLAN PLANTS

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE	NOTES
cxcFC	107	Caryopteris x clandonensis 'First Choice' First Choice Blue Mist Spirea	5 gal. 18" hgt. & spd.	Full; Container
GfSB	105	Festuca idahoensis 'Siskiyou Blue' Siskiyou Blue Idaho Fescue	1 gal	Container; Plant 15" o.c.
jhH	106	Juniperus horizontalis 'Hughes' Hughes Juniper	5 gal. 24-30" spd.	Full; Container
jhY	15	Juniperus horizontalis 'Youngstown Compacta' Andorra Youngstown Juniper	5 gal. 24-30" spd.	Full; Container
GbBA	328	Bouteloua gracilis 'Blonde Ambition' Blond Ambition Gramma	1 gal	Full Container, Plant 20" o.c. max.
nxf	3,117	Nepeta x faassenii Faassen's Catmint	4" pots	Container; Plant 18" o.c.
ps	247	Penstemon strictus Rocky Mountain Penstemon	1 gal.	Container, Plant 12" o.c.
yb	33	Yucca baccata Banana Yucca	5 gal. 24-30" hgt.	Full; Container
yg	72	Yucca glauca Narrow-leaf Yucca or Soapweed	5 gal. 24-30" hgt.	Full; Container

PRISCILLA J MARBAKER 340 STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT
Original Date of Licensure 13 Jan 2026

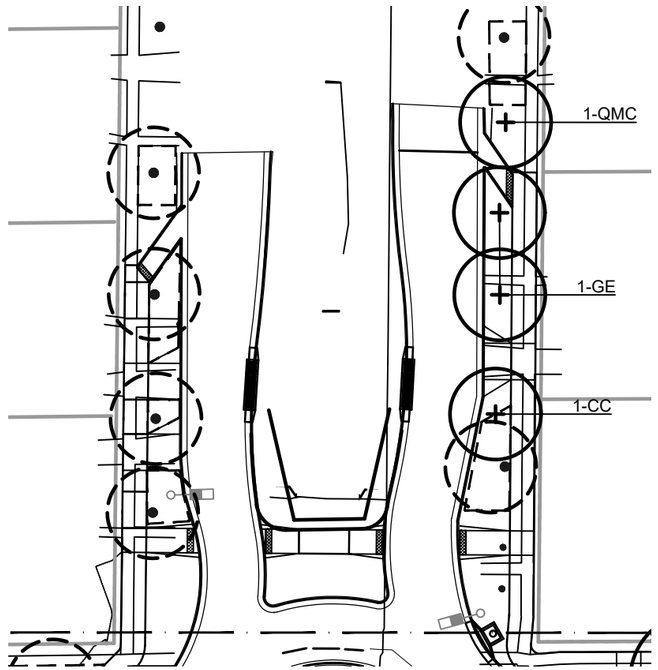
TAPS associates
Colorado Springs
719.593.1540

Print Date:		Sheet Revisions			WILSON & COMPANY		31st Street Roundabout
File Name:		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:	Plant List
Horiz. Scale:	Vert. Scale:					Revised:	Designer: PJBM / Detailer: PJBM / Sheet Subset: / Structure Numbers / Subset Sheets: of
Unit Information	Unit Leader				COLORADO SPRINGS OLYMPIC CITY USA	Void:	TAPIS 25001R / Project #____-___ / Bid #__-__ / Sheet Number L5.1
ALL SEALS FOR ROADWAY & TRAFFIC PLAN SETS OR DRAWINGS ARE APPLIED TO THE COVER PAGE.							



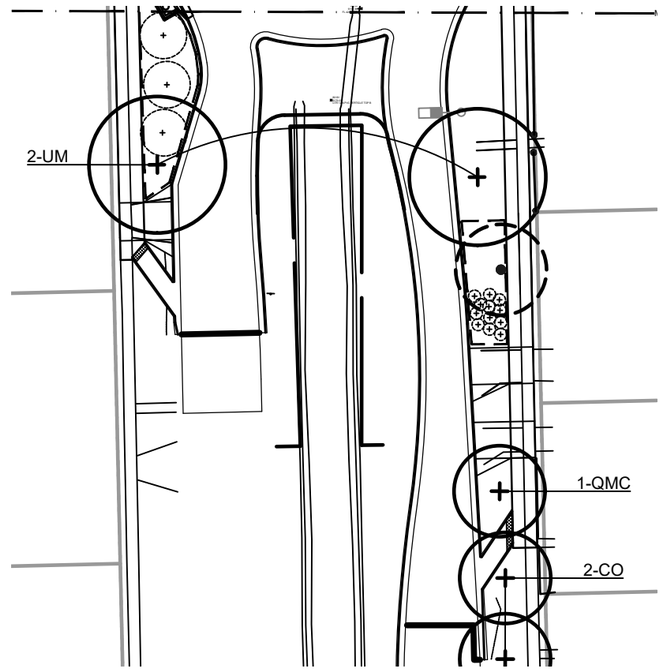
FONTANERO STREET

1' = 40'



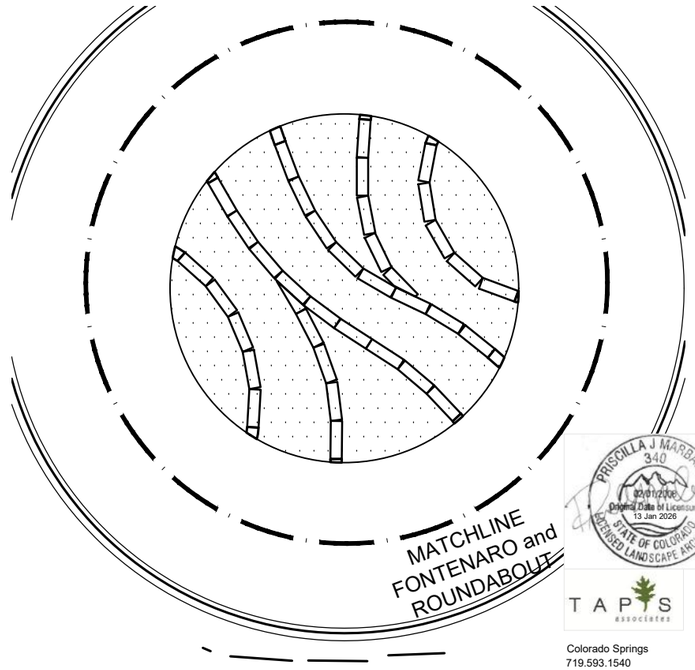
N 31st STREET-north of roundabout

1' = 50'



N 31st STREET-south of roundabout

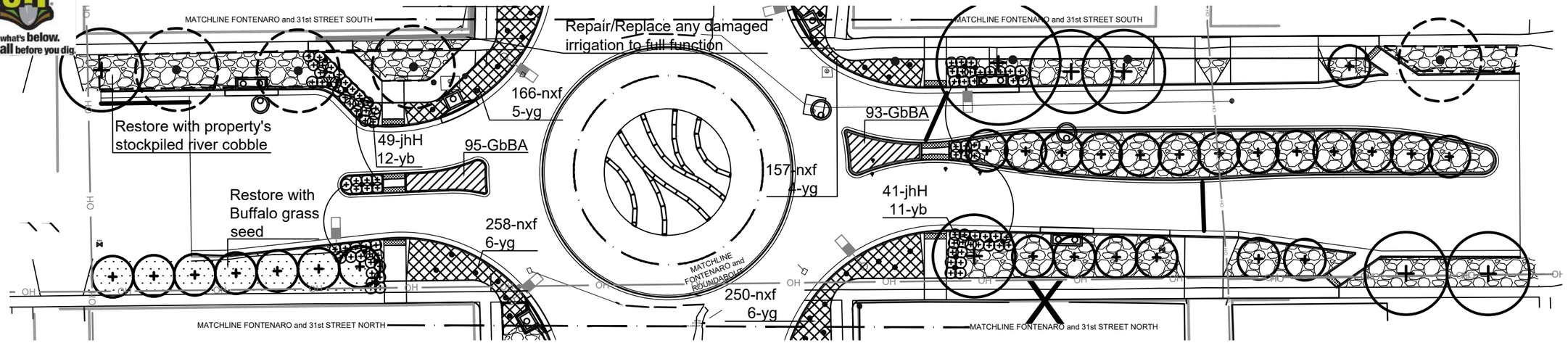
1' = 50'



N 31st STREET - roundabout

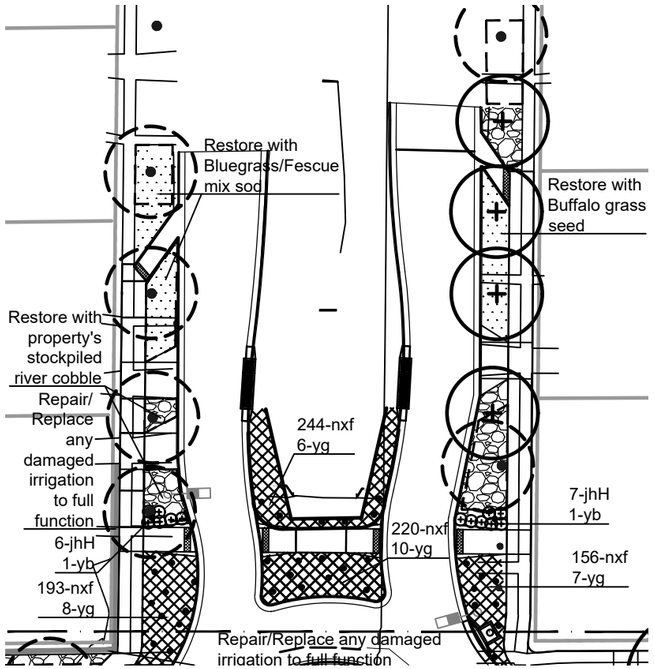
1' = 20'

Print Date:		Sheet Revisions			COLORADO SPRINGS OLYMPIC CITY USA	WILSON & COMPANY 5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	31st Street Roundabout
File Name:		Date:	Comments	Init.			Tree Planting Plan
Horiz. Scale:	Vert. Scale:					No Revisions:	Designer: PJBM / Detailer: PJBM / Sheet Subset:
Unit Information	Unit Leader					Revised:	Structure Numbers / Subset Sheets: of
ALL SEALS FOR ROADWAY & TRAFFIC PLAN SETS OR DRAWINGS ARE APPLIED TO THE COVER PAGE.						Void:	TAPIS 25001R / Project #____-___ / Bid #__-__ / Sheet Number L5.2



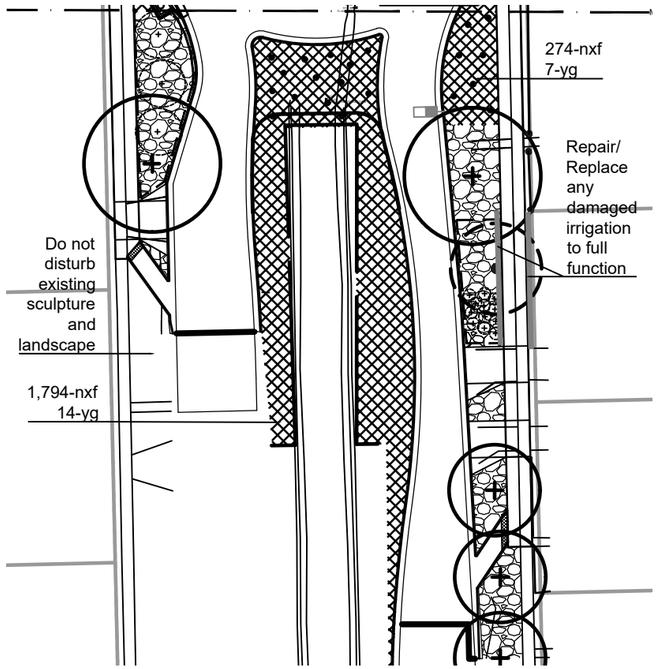
FONTANERO STREET

1' = 40'



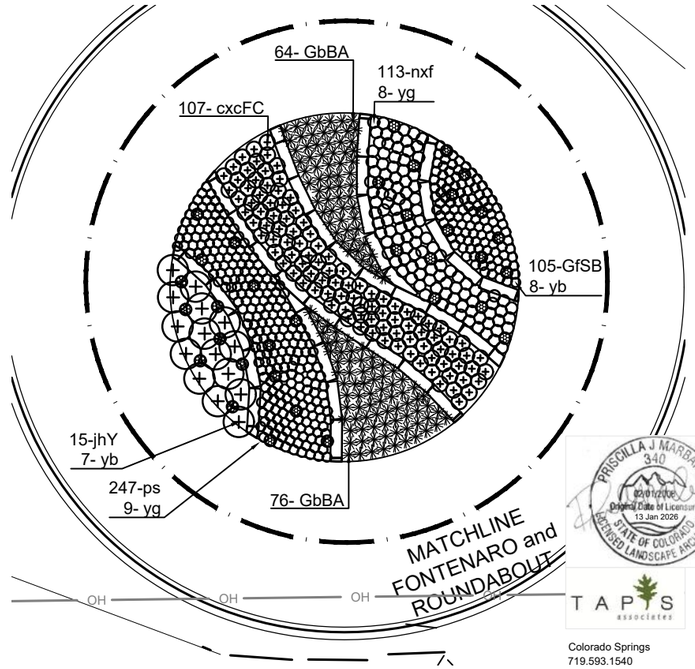
N 31st STREET-north of roundabout

1' = 50'



N 31st STREET-south of roundabout

1' = 50'

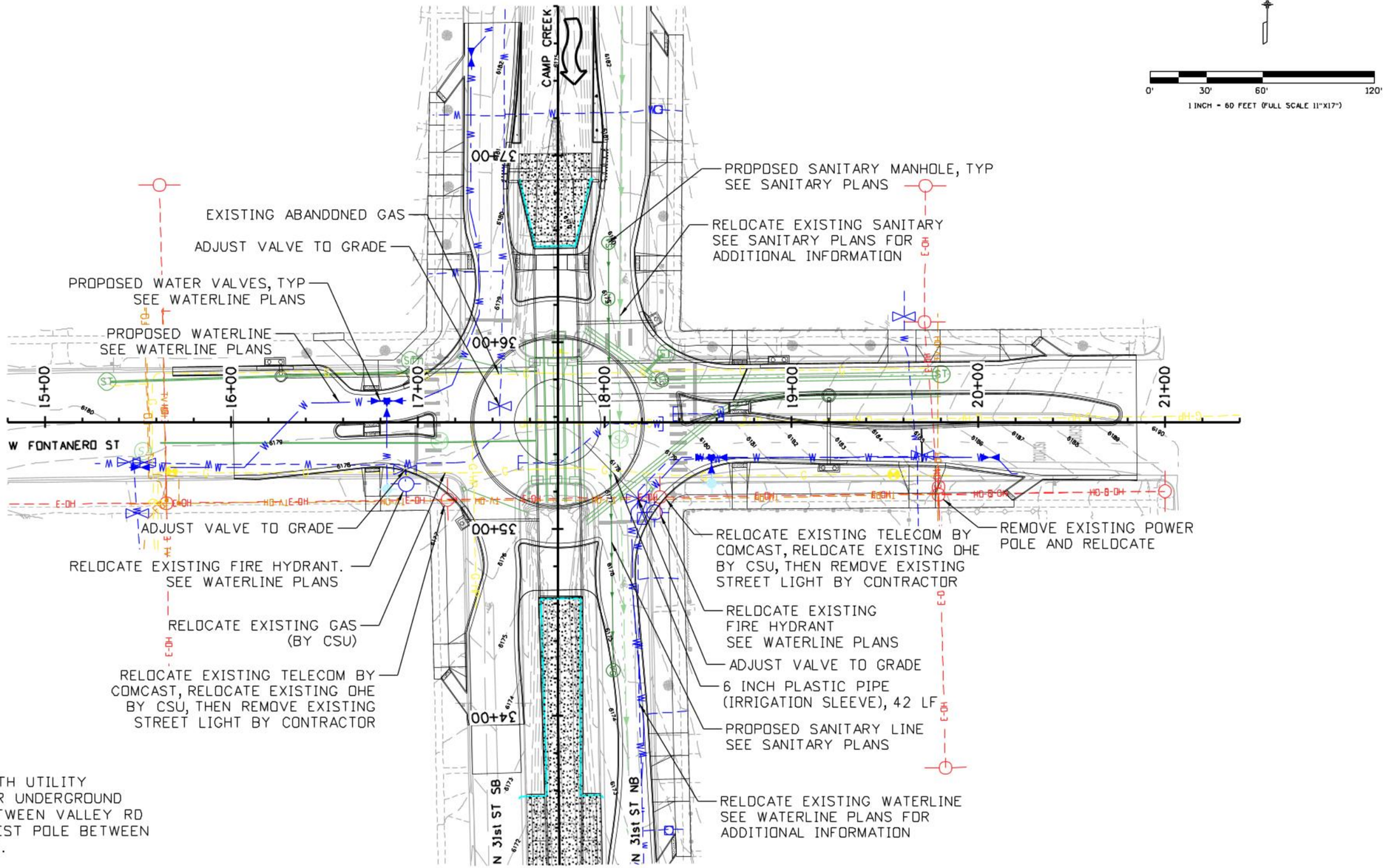


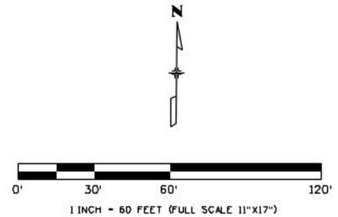
N 31st STREET - roundabout

1' = 20'

Print Date:		Sheet Revisions			COLORADO SPRINGS OLYMPIC CITY USA	WILSON & COMPANY		31st Street Roundabout	TAPIS 25001R
File Name:		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:	Groundplane Planting Plan	Project #____-___
Horiz. Scale:	Vert. Scale:						Revised:	Designer: PJBM	Structure Numbers	Bid #__-__
Unit Information	Unit Leader							Detailer: PJBM		
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Know what's below. Call before you dig.





NOTES:

1. CONTRACTOR TO COORDINATE WITH UTILITY TO REROUTE TELECOM AND FIBER UNDERGROUND STARTING AT NEAREST POLE BETWEEN VALLEY RD & N 31ST AND ENDING AT NEAREST POLE BETWEEN N 31ST ST AND W PLEASANT ST.

Print Date: 11/6/2025		Sheet Revisions			COLORADO SPRINGS OLYMPIC CITY USA	WILSON & COMPANY	31ST ST & FONTANERO ST UTILITY IMPACTS	Project No./Code
File Name: 23916UTIL_01-01_Pn.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108		Project #STU-M240-203
Horiz. Scale: 1:60	Vert. Scale:						No Revisions:	Designer: STA / Structure Numbers: CSG-E.00-10.57A	Bid #__-__
Unit Information	Unit Leader						Revised:	Detailer: TAH	
ALL SEALS FOR THIS SET OF DRAWINGS ARE APPLIED TO THE COVER PAGE.							Void:	Sheet Subset: UTIL / Subset Sheets: 1 of 1	Sheet Number

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Colorado Springs Utilities
It's how we're all connected

WILSON & COMPANY
5755 MARK DABLING BLVD, SUITE 100
COLORADO SPRINGS, CO 80919
PHONE: 719-520-5800
FAX: 719-520-0108
www.wilsonco.com

SYSTEM PLANNING & PROJECTS
ENGINEERING & DESIGN DEPARTMENT
WATER & WASTEWATER DESIGN

31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT WATERLINE REPLACEMENT PLANS

REPLACE APPROX. 806 LF OF 6" CIP W/ 779 LF OF 8" PVC

APPROVED FOR CONSTRUCTION

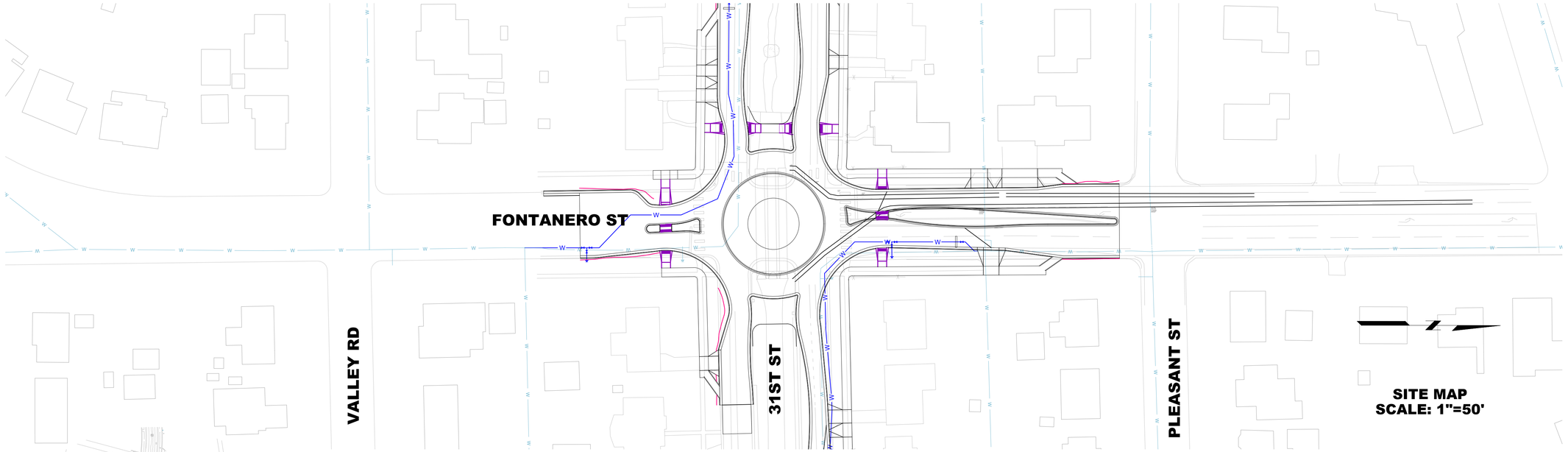
Approved By:	SEE STAMP BELOW Project Technical Lead	Date
Approved By:	 Project Manager	Date
Approved By:	Chris Whitten Construction Coordinator	12/30/2025 Date
Approved By:	 Water Distribution Manager	Date
Approved By:	 Prepared Under My Direct Supervision For and On Behalf of Colorado Springs Utilities	Date

COLORADO SPRINGS UTILITIES
WATER MAIN DESIGN APPROVAL

APPROVED
12/12/2025 8:29:30 AM
mlwilliams
Water
Colorado Springs Utilities
It's how we're all connected

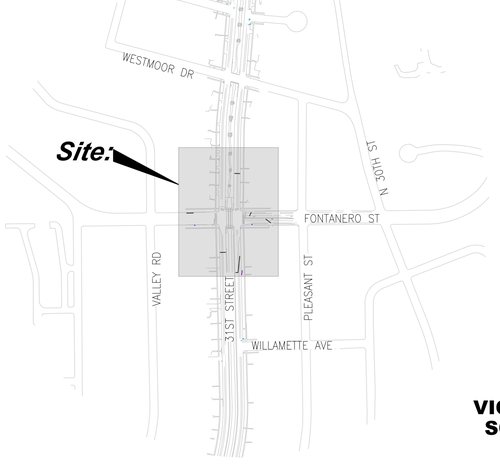
PROJECT NUMBER: 2024-W1288
WORK ORDER NUMBER: 4193684

APPROVAL EXPIRES ONE (1) YEAR FROM THE DATE ABOVE AND RESUBMITTAL OF THESE PLANS FOR REVIEW AND APPROVAL IS REQUIRED IF CONSTRUCTION DOES NOT BEGIN DURING THIS PERIOD.



SITE MAP
SCALE: 1"=50'

31ST ST AND FONTANERO ST



VICINITY MAP
SCALE: NTS

DRAWING INDEX	
SHEET NO.	SHEET TITLE
W1	COVER
W2	GENERAL NOTES
W3	ABBREVIATIONS & LEGEND
W4	WATERLINE PROJECT OVERVIEW PLAN
W5	PLAN & PROFILE WL-8A STA 17+40 TO 23+20
W6	PLAN & PROFILE WL-8A STA 23+20 TO 25+86
W7	PLAN & PROFILE WL-8D STA 0+00 TO 2+00
W8	PLAN & PROFILE WL-8D STA 2+00 TO 5+00
W9	FIRE HYDRANT PLAN
W10	DETAILS

COLORADO LICENSED PROFESSIONAL ENGINEER
JOHN DAVID STRAUBERGER
38711
11/25/2025

FIRE FLOW

ACCORDING TO CALCULATIONS REVIEWED BY COLORADO SPRINGS UTILITIES, THE THEORETICAL AVAILABLE FIRE FLOW AT EACH FIRE HYDRANT NODE UNDER MAXIMUM DAY DEMAND CONDITIONS WITH A 20 PSI RESIDUAL AND THE MAXIMUM STATIC PRESSURE AT BURY DEPTH (9') IS AS FOLLOWS (ACTUAL FIRE FLOW MAY VARY DUE TO VARIOUS PARAMETERS):

NODE	FIRE FLOW (GPM)	STATIC PRESSURE @ MDD[1] (PSI)	MAX STATIC PRESSURE @ BURY DEPTH[1,2] (PSI)
FH-1	2300	93	106
FH-2	2200	92	106

[1] THE MAXIMUM PRESSURE LISTED FOR EACH NODE DEFINES THE MAXIMUM DESIGN WORKING PRESSURE FOR MATERIAL SELECTION IN WATER LESS TABLE 2-2. IF THE MAXIMUM DESIGN WORKING PRESSURE IS GREATER THAN 177 PSI, PVC SHALL NOT BE USED.
[2] BURY DEPTH IS ASSUMED TO BE 9 FEET BELOW THE HYDRANT FLANGE ELEVATION.

CSFD ACCEPTANCE

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO COLORADO SPRINGS UTILITIES' WATER LINE EXTENSION AND SERVICE STANDARDS.

THE NUMBER OF HYDRANTS AND HYDRANT LOCATIONS AS SHOWN ON THIS WATER PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE CITY OF COLORADO SPRINGS FIRE DEPARTMENT.

APPROVED
12-01-2025 14:39:10
Phil Valdez
Colorado Springs Fire Department

SIGNED: _____
CSFD, DIVISION OF THE FIRE MARSHAL

CSFD PLAN REVIEW NO.: FCS-C-FH-25-00062

APPROVED FOR CONSTRUCTION

SCALE AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

COLORADO 811
KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

PROJECT TECHNICAL LEAD: JDS
PROJECT MANAGER: DMZ
PROJECT DESIGNER: BR
PROJECT SURVEYOR: AMD
REVISIONS:

AS-BUILT INFORMATION

CONTRACTOR: BEGIN:
WORK STAKED BY: DATE:
INSPECTOR ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:
END:

31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT
WATERLINE REPLACEMENT PLANS
REPLACE APPROX. 806 LF OF 6" CIP W/ 779 LF OF 8" PVC
W1 COVER

EXISTING PIPE INFORMATION
PIPE MATERIAL
CIP
YEAR
1972
PIPE SIZE
6"
MAX. STATIC PRESSURE
102 PSI
PARENT WO#
4193684
PROJECT #
2024-W1288
PRESSURE ZONE
HIGHLINE
MAP BOOK
08041C0726G

WATER SERVICE LINE INVENTORY ☐

SHEET 1 OF 8

DRAWING PATH:M:\TRN\20-100-239-1\62_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\W1COVER.DWG

GENERAL NOTES

1. ALL WORK IN THE CITY OF COLORADO SPRINGS PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH BOTH THE CITY OF COLORADO SPRINGS, ENGINEERING DIVISION STANDARDS AND THE COLORADO SPRINGS UTILITIES WATER LINE EXTENSIONS AND SERVICE STANDARDS (LESS). ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET COLORADO SPRINGS UTILITIES WATER LESS.
2. THE CONTRACTOR SHALL OBTAIN LOCATES PRIOR TO ANY EXCAVATION.
3. COLORADO SPRINGS UTILITIES CANNOT GUARANTEE THE LOCATIONS OR ACCURACY OF UNDERGROUND FACILITIES OR BE RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF EXISTING UTILITIES WITHIN THE PROJECT CONSTRUCTION ZONE PRIOR TO CONSTRUCTION. THESE LOCATIONS SHALL BE IDENTIFIED AND MARKED BY CALLING THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811.
4. ALL PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR WHO SHALL COMPLY WITH THE CONDITIONS THEREOF.
5. ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS MANUAL AND SECTION 5.18 OF THE WATER LESS.
6. CHANGES IN DESIGN DETERMINED NECESSARY TO CONFORM TO FIELD CONDITIONS, MAY REQUIRE ADDITIONAL MATERIALS NOT INDICATED ON THIS PLAN. ALL CHANGES SHALL BE APPROVED BY COLORADO SPRINGS UTILITIES PER THE LESS.
7. CORROSION CONTROL PER COLORADO SPRINGS UTILITIES WATER LESS.
   a. ANODES REQUIRED ON ALL METALLIC FITTINGS AND EXISTING METAL PIPE AT TIE-IN'S OR AS DIRECTED BY COLORADO SPRINGS UTILITIES.
   b. ANODES REQUIRED ON ALL METALLIC MAINS AS INDICATED ON APPROVED PLANS.
   c. POLYETHYLENE WRAP REQUIRED ON ALL METALLIC PIPE AND FITTINGS.
   d. BONDING REQUIRED AT EVERY JOINT ON ALL METALLIC MAINS.
   e. DOUBLE BONDING REQUIRED AT EVERY JOINT ON ALL 16" AND LARGER METALLIC MAINS.
   f. TEST STATIONS REQUIRED AT ALL LOCATIONS AS INDICATED ON APPROVED PLANS.
   g. INSULATING COUPLINGS REQUIRED AS INDICATED ON APPROVED PLANS.
8. NO SERVICE TAPS SHALL BE MADE UNTIL AUTHORIZATION HAS BEEN GRANTED BY THE COLORADO SPRINGS UTILITIES INSPECTOR.
9. ALL WATER SERVICE LINES SHOULD ENTER THE BUILDING WITHIN 3 FEET OF AN EXTERIOR WALL. EXPOSED WATER PLUMBING SHALL BE MINIMIZED INSIDE THE BUILDING PRIOR TO THE WATER METER AND/OR APPROVED BACKFLOW PREVENTION ASSEMBLY OR METHOD.
10. THE CONTRACTOR SHALL MAKE THEIR BEST EFFORT TO ENSURE THE WATER SERVICE TO ADJACENT PROPERTIES IS MAINTAINED DURING CONSTRUCTION.
11. SERVICE STUBS SHALL BE INSTALLED WITH THE CURB STOP AT OR NEAR PROPERTY LINE AND SHALL NOT BE INSTALLED WITHIN DRIVEWAYS OR SIDEWALKS (SEE DETAIL DRAWING B2-3).
12. SERVICE TAPS SHALL BE MADE A MINIMUM OF THREE FEET (3') FROM THE BELL OR APPURTENANCE ON THE WATER MAIN. TAPS SHALL BE A MINIMUM OF THREE FEET (3') ON THE SAME SIDE OF THE WATER MAIN AND A MINIMUM OF ONE AND A HALF FEET (1.5') WHEN TAPS ARE MADE ON OPPOSITE SIDES OF THE WATER MAIN.
13. ANY ABANDONED SERVICES MUST BY PHYSICALLY DISCONNECTED AT THE MAIN. ANY NECESSARY REPAIRS TO THE MAIN AND/OR SHUT DOWN OF THE TAPPING VALVE SHALL BE AS DIRECTED BY COLORADO SPRINGS UTILITIES.
14. ALL FIELD STAKING SHALL COMPLY WITH THE WATER LESS.
15. ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION AND THE STATIONING ON THE FIELD STAKES SHALL MATCH THE STATIONING ON THE PLANS.
16. FIELD MODIFICATIONS TO A FIRE SERVICE LINE OR FIRE HYDRANT DESIGN OR LOCATION MAY NEED TO BE APPROVED BY THE ENGINEER OF RECORD, COLORADO SPRINGS FIRE DEPARTMENT AND COLORADO SPRINGS UTILITIES, AS REQUIRED BY THE INSPECTOR.
17. THE PIPELINE ELEVATIONS SHOWN ARE TO THE BOTTOM OF THE PIPE, UNLESS OTHERWISE NOTED.
18. THE FOLLOWING NOTES ARE CONSISTENT WITH FIMS DATA:
   a. NOTE: HORIZONTAL CONTROL VALUES ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 AND ARE REPRESENTED AS STATE PLANE COORDINATES, COLORADO CENTRAL ZONE.
   b. NOTE: VERTICAL CONTROL VALUES ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM, 1929 AND THE 1960 SUPPLEMENTARY ADJUSTMENT
   c. BENCH MARK: SEE SURVEY CONTROL POINTS IN TABLE
19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RE-EXCAVATE THE TRENCH WHERE DISINFECTION AND PRESSURE TESTING WILL BE PERFORMED AND PREPARE AND PROTECT THESE EXCAVATIONS FOR DISINFECTION BY COLORADO SPRINGS UTILITIES. SINCE DISINFECTION WILL TAKE PLACE FIRST, THE CONTRACTOR SHALL ASSIST IN TRENCH MAINTENANCE AND STAND BY DURING DISINFECTION. AFTER SUCCESSFUL DISINFECTION AND PRESSURE TESTING, THE SITE(S) WILL BE RESTORED AS SPECIFIED.
20. CONTRACTOR SHALL NOTIFY THE COLORADO DEPARTMENT OF TRANSPORTATION UTILITY ENGINEER ONE WEEK PRIOR TO BEGINNING WORK ON ANY STATE HIGHWAY RIGHT-OF-WAY. A STATE HIGHWAY PERMIT IS ALSO REQUIRED.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FACILITIES AFFECTED BY CONSTRUCTION AND PROVIDE TEMPORARY PROTECTION, REMOVAL AND REINSTALLATION AT THE SAME LOCATIONS OF ALL AFFECTED FACILITIES.
22. AFTER INSTALLATION OF PIPELINE AND BACKFILLING OF TRENCH TO FINAL GRADE, ANY EXCESS MATERIAL SHALL BE SPREAD AND COMPACTED OR HAULED AWAY AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE. ADDITIONAL COMPACTION IS REQUIRED BEHIND ALL INSTALLATIONS OF HIGH DEFLECTION COUPLINGS.
23. ALL RETIRED APPURTENANCES (VALVE BOXES, HYDRANTS, ETC.) WILL BE REMOVED UPON COMPLETION OF THE PROJECT. REUSE OF EXISTING FITTINGS SHALL BE LEFT AT THE DISCRETION OF THE COLORADO SPRINGS UTILITIES INSPECTOR. ANY MATERIAL SALVAGED BY THE CONTRACTOR (VALVES, PIPE, HYDS, ETC.) AND NOT REUSED SHALL BE RETURNED TO POSSESSION OF COLORADO SPRINGS UTILITIES. NO RETIRED FACILITIES (VALVE BOXES, HYDRANTS, ETC.) SHALL BE LEFT ABOVE GROUND.

CITY OF COLORADO SPRINGS CITY ENGINEERING NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT CITY OF COLORADO SPRINGS ENGINEERING DIVISION (THE CITY) STANDARD SPECIFICATIONS AND DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS (PRIOR TO DOING ANY WORK IN THE CITY RIGHT-OF-WAY (ROW)).
3. FOR ALL CITY PERMITS (TRAFFIC CONTROL, EXCAVATION, AND CONCRETE), CONTRACTORS SHALL APPLY FOR A PERMIT USING THE ONLINE PERMITING SYSTEM. ONCE THE CITY PERMIT IS APPROVED AND PAID, ALL SCHEDULED INSPECTIONS AND NOTIFICATIONS SHALL BE COMPLETED THE ONLINE PERMIT SYSTEM.
4. ALL CONCRETE AND ASPHALT MIX DESIGNS ARE APPROVED ANNUALLY FOR EACH SUPPLIER AND SHALL BE USED FOR ALL WORK IN THE CITY ROW (UNLESS APPROVED OTHERWISE).
5. ALL BACKFILL COMPACTION TESTS (IF NECESSARY) SHALL BE TAKEN AT 2' INTERVALS/LIFTS. THIS INFORMATION SHALL SUBSEQUENTLY BE ATTACHED/UPLOADED TO THE APPROPRIATE PERMIT.
6. CLSM (FLOW FILL) SHALL BE USED FOR THE BACKFILL UNDER STORM SEWER CROSSINGS UP TO THE SPRING LINE OF THE STORMSEWER, DAMAGE TO THE EXISTING STORMSEWER SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL STAMP THEIR COMPANY NAME AND CONSTRUCTION YEAR AT A MINIMUM EVERY 100-FEET OR FRACTION THEREOF ON CONCRETE SURFACES.
8. ASPHALT PATCHING SHALL BE DONE PER THE UTILITY TRENCH REPAIR DETAIL.
9. WHERE THE ROADWAYS ARE IDENTIFIED AS MORATORIUM ROADS:
   a. THE UTILITY TRENCH SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND TESTED AT 2' INTERVALS. THEN, CLSM (FLOW FILL) SHALL BE PLACED AT THE LAST 3-FEET OF THE ROADWAY PROFILE, THEN MATCH THE EXISTING ASPHALT PROFILE.
   b. ASPHALT PATCHING SEEMS SHALL BE INFARED REPAIRED.
   c. THE LIMITS OF RESTORATION FOR ALL PATCHING WILL BE DETERMINED IN THE FIELD BY THE ROW INSPECTOR.
   d. NEW ASPHALT SHALL NOT BE PLACED AGAINST FRESHLY POURED CONCRETE. FRESHLY PLACED CONCRETE SHALL BE A MINIMUM OF 5-DA YS OLD OR HAVE A COMPRESSIVE STRENGTH OF 3,200 PSI AS DEMONSTRATED BY FIELD CURE CYLINDERS PRIOR TO ASPHALT PLACEMENT.
   e. CONTACT THE CITY FORESTRY DIVISION, PRIOR TO STARTING WORK, IF IT IS NECESSARY TO DISTURB TREES OR ROOTS IN THE CITY ROW.
   f. IF ANY STRIPING HAS BEEN REMOVED OR DISTURBED DURING CONSTRUCTION, IT MUST BE REPLACED PRIOR TO GIVING A NOTICE OF COMPLETION.
   g. PLEASE CONTACT THE ROW MAIN NUMBER, 385.5977 FOR ANY QUESTIONS OR CONCERNS.

PROJECT SPECIFIC NOTES

1. ALL EXISTING UTILITIES WERE IDENTIFIED AND ARE SHOWN USING THE AMERICAN SOCIETY OF CIVIL ENGINEERING STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA (C1/ASCE 38-02) TO QUALITY LEVEL B (QL B) EXCEPT:
   a. ALL SANITARY SEWERS ARE QUALITY LEVEL C (QL C).
   b. ALL STORM SEWERS ARE QUALITY LEVEL C (QL C).
   c. EXPLORATORY TEST HOLES (POTHOLES) WERE PERFORMED AS SHOWN ON THE PLANS.
2. INSTALL SECONDARY VALVES ON PRIVATE MAINS AT THE PROPERTY LINES, IF SECONDARY VALVES ARE NOT EXISTING IN THE FIELD. INSTALL CURB STOPS ON ALL SERVICES.
3. WATER DIG ALERT: PLEASE CONTACT RICK RENTERIA ONE WEEK BEFORE EXCAVATION: 668-4734.
4. ELECTRIC DIG ALERT: PLEASE CONTACT RICK AT (719) 290-3795 AT LEAST THREE BUSINESS DAYS BEFORE EXCAVATION.
5. GAS DIG ALERT: PLEASE CALL 668-3520 AT LEAST THREE BUSINESS DAYS BEFORE EXCAVATION.
6. ENSURE THE VCP SANITARY SEWER HAS BEEN LINED PRIOR TO BEGINNING CONSTRUCTION.
7. ALL CONCRETE THRUST REACTION BLOCKS AND CONCRETE REVERSE ANCHORS SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI PRIOR TO BEING PUT INTO SERVICE (CHARGING THE WATER MAIN.) RAPID CURE CONCRETE MAY BE NEEDED TO MEET THE PROJECT SCHEDULE.
8. CONTRACTOR TO VERIFY UTILITY DEPTHS PRIOR TO CONSTRUCTION.

COLORADO LICENSED
DAVID STRANDBERG
38711
PROFESSIONAL ENGINEER
11/25/2025

APPROVED FOR CONSTRUCTION

MATERIAL LIST

TOTAL	UOM	USED	MATERIAL DESCRIPTION	PART NUMBER
779	FT	(_____)	PIPE, PVC, SLIP JOINT, 8"	349-150-200
2	EA	(_____)	BEND, MJ, 8"X11-1/4%%D, CLASS 350, C153, DUCTILE IRON SSB	307-100-140
2	EA	(_____)	BEND, MJ, 8"X22-1/2%%D, CLASS 350, C153, DUCTILE IRON SSB	307-100-150
9	EA	(_____)	BEND, MJ, 8"X45%%D, CLASS 350, C153, DUCTILE IRON SSB	307-100-160
55	EA	(_____)	CLAMP, MJ, RESTRAINT, 8 INCH PVC, 200 PSI RATED, W/ACCESSORIES KIT	320-100-016
6	EA	(_____)	CLAMP, MJ, RESTRAINT, 6 INCH PVC, 200 PSI RATED, W/ACCESSORIES KIT	320-100-012
4	EA	(_____)	COUPLING, SOLID SLEEVE, 8", MJ, LONG 8", FOR 8" PIPE, CLASS 350	321-100-408
4	EA	(_____)	REDUCER, PIPE, MJ, 8"X6", SEB, CLASS 350, C153, DUCTILE IRON, W/O ACCESSORIES	357-200-040
2	EA	(_____)	TEE, ANCHORING, 8"X6", MJXMJXSW	371-200-330
6	EA	(_____)	VALVE, MJ, GATE, OR, 250#, 8"	375-600-175
2	EA	(_____)	VALVE, MJ, GATE, OR, 250#, 6"	375-600-150
2	EA	(_____)	HYDRANT, FIRE, 5-1/4" x 6' BURY, 250 PSI	341-100-080
6	EA	(_____)	ANODE, 17#	201-000-017
25	EA	(_____)	ANODE, 9#	201-000-009
26	FT	(_____)	PIPE, PVC, SLIP JOINT, 6"	349-150-100
2	EA	(_____)	WAT TEST STA, BLACK W/ BLUE LID MARKED "WATER" (LIGHT DUTY)	305-010-095
2	EA	(_____)	BOX, VALVE, TOP SECTION W/LID, 26"	311-200-024
2	EA	(_____)	BOX, VALVE, BOTTOM SECTION, 36"	311-200-026
6	EA	(_____)	CLAMP, MJ, RSTNT, 6" PVC	320-100-012
4	EA	(_____)	STONE, STEPPING, 4"X18"X18"	365-100-010
2	EA	(_____)	THERMOWELD CARTRIDGES	372-200-015
2	EA	(_____)	KIT, MJ, GLAND ACCESSORY PACK, 6"	320-300-006
805	FT	(_____)	TRACER WIRE, COPPER-CLAD STEEL, 500' ROLL, BLUE HDPE, #12 AWG, SOFT DRAWN	305-010-015
3	EA	(_____)	CORPORATION STOP, 3/4"	392-500-030
3	EA	(_____)	COUPLING, UNION, 3/4" FLR X FLR	393-500-050
357	FT	(_____)	PIPE, TUBING, COPPER, 3/4", TYPE K, SOFT (100')	398-100-030

RETIRED IN GROUND OR JUNKED OUT MATERIAL LIST

	JUNKED OUT MATERIAL				
	(FIMS VALVE OR HYD #)	(SIZE)	(FOOTAGE)	(TYPE)	(QUANTITY)
PIPE					
PIPE					
VALVE					
HYDRANT					
CROSS					
REDUCER					
BENDS					
TEES					
	RETIRED IN GROUND MATERIAL				
	(FIMS VALVE OR HYD #)	(SIZE)	(FOOTAGE)	(TYPE)	(QUANTITY)
PIPE					
PIPE					
VALVE					
HYDRANT					
CROSS					
REDUCER					
BENDS					
TEES					

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN

0 1/2" 1"
GRAPHIC SCALE

THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION

CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-W1288

EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
6"	CIP	HIGHLINE
MAX. STATIC PRESSURE	YEAR	MAP BOOK
102 PSI	1972	08041C0726G

Colorado Springs Utilities
It's how we're all connected

31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT WATERLINE REPLACEMENT PLANS

REPLACE APPROX. 806 LF OF 6" CIP W/ 779 LF OF 8" PVC

W2 GENERAL NOTES

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 2 OF 8

DRAWING PATH:M:\TRN\20-100-239-16\2_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\WL\GENERAL NOTES.DWG

R26-T008MZ

ABBREVIATIONS

ACT.	ACTUAL
Ⓐ	ANODE
APPROX	APPROXIMATE
ARV	AIR RELIEF VALVE
BFV	BUTTERFLY VALVE
BOP	BOTTOM OF PIPE
BOV	BLOWOFF ASSEMBLY AND VALVE
BSA	MINIMUM BEARING SURFACE AREA
C&G	CURB AND GUTTER
CB	CATCH BASIN
CF	CUBIC FEET
CIP	CAST IRON PIPE
CL, ℄	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CP	CONTROL POINT
CPLG	COUPLING
CR	CURB RETURN
CRA	CONCRETE REVERSE ANCHOR
CTRB	CONCRETE THRUST REACTION BLOCK
CY	CUBIC YARDS
D, °	DEGREE
Δ	DELTA
DEFL	DEFLECTION
DIA, Ø	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
E	EAST/EASTING
EA	EACH
ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EOP	EDGE OF PAVEMENT
EXIST.	EXISTING
FL	FLOW LINE
FLG	FLANGE
FO	FIBER OPTIC
FT	FEET
G	GAS
GR.BK., V.P.I	V.P.I. GRADE BREAK
GV	GATE VALVE
GPM	GALLONS PER MINUTE
HDC	HIGH DEFLECTION COUPLING
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	HYDRANT
I.D.	INNER DIAMETER
IN.	INCH
INS	INSULATE(D)(ING)
INV	INVERT

LB, lb, #	POUND
LEB	LARGE END BELL
LF	LINEAR FEET
LP	LIGHT POLE
MAX	MAXIMUM
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH/NORTHING
NO.	NUMBER
NP	NON-POTABLE WATER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTER DIAMETER
PC	POINT OF CURVATURE
PFAS	PER- AND POLYFLUOROALKYL SUBSTANCES
PH	POTHOLE
PP	POWER POLE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PUPS	12" OR SMALLER, USE PLAIN END BY PLAIN END, 30' LENGTH. 16" OR LARGER USE PLAIN END BY PLAIN END, 24" LENGTH
PVC	POLYVINYL CHLORIDE PIPE
PVT	PRIVATE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
ROW	RIGHT OF WAY
S	SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SS	SANITARY SEWER
STL	STEEL
STR	STRAIGHT
SVC	SERVICE
TBD	TO BE DETERMINED
TOP	TOP OF PIPE
TS	TEST STATION
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
UNK	UNKNOWN
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
W	WEST
WL	WATER LINE
YDS	YARDS

LEGEND

- EXISTING ROW/PROPERTY LINE
- EXISTING CURB LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS MAIN
- EXISTING WATER
- PROPOSED WATER
- EXISTING NON-POTABLE WATER
- EXISTING STORM DRAIN
- EXISTING SEWER
- EXISTING UNDER GROUND ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING SANITARY SEWER MANHOLE
- EXISTING FENCE
- VALVE (EXISTING)
- VALVE (PROPOSED)
- BLOWOFF (EXISTING)
- BLOWOFF (PROPOSED)
- PLUG (EXISTING)
- PLUG (PROPOSED)
- UTILITY EASEMENT
- PRESSURE DISTRICT BOUNDARY
- GUARDRAIL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING STREET LIGHT
- EXISTING ELECTRIC BOX
- EXISTING ELECTRIC VAULT
- EXISTING COMMUNICATION BOX
- EXISTING COMMUNICATION VAULT
- PROPOSED ANODE LOCATION
- WARNING - ELECTRIC CROSSING
- WARNING - GAS CROSSING
- WARNING - FIBER OPTIC CROSSING
- WARNING - SANITARY SEWER CROSSING
- WARNING - STORM CROSSING
- WARNING - WATER CROSSING
- WARNING - NON-POTABLE WATER CROSSING

SERVICES

RECONNECT THE FOLLOWING WATER SERVICE LINES:

721 N 31ST STREET - 0.75"
725 N 31ST STREET - 0.75"
727 N 31ST STREET - 0.75"
729 N 31ST STREET - 0.75"
804 N 31ST STREET - 0.75"
810 N 31ST STREET - 0.75"

COLORADO LICENSED
DAVID STRANDBERG
38711
PROFESSIONAL ENGINEER
11/25/2025

APPROVED FOR CONSTRUCTION

DRAWING PATH:M:\TRN\20-100-239-16\2_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\WL\31ST RA_OVERVIEW.DWG

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION

CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-W1288

EXISTING PIPE INFORMATION

PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
6"	CIP	HIGHLINE
MAX. STATIC PRESSURE	YEAR	MAP BOOK
102 PSI	1972	08041C0726G

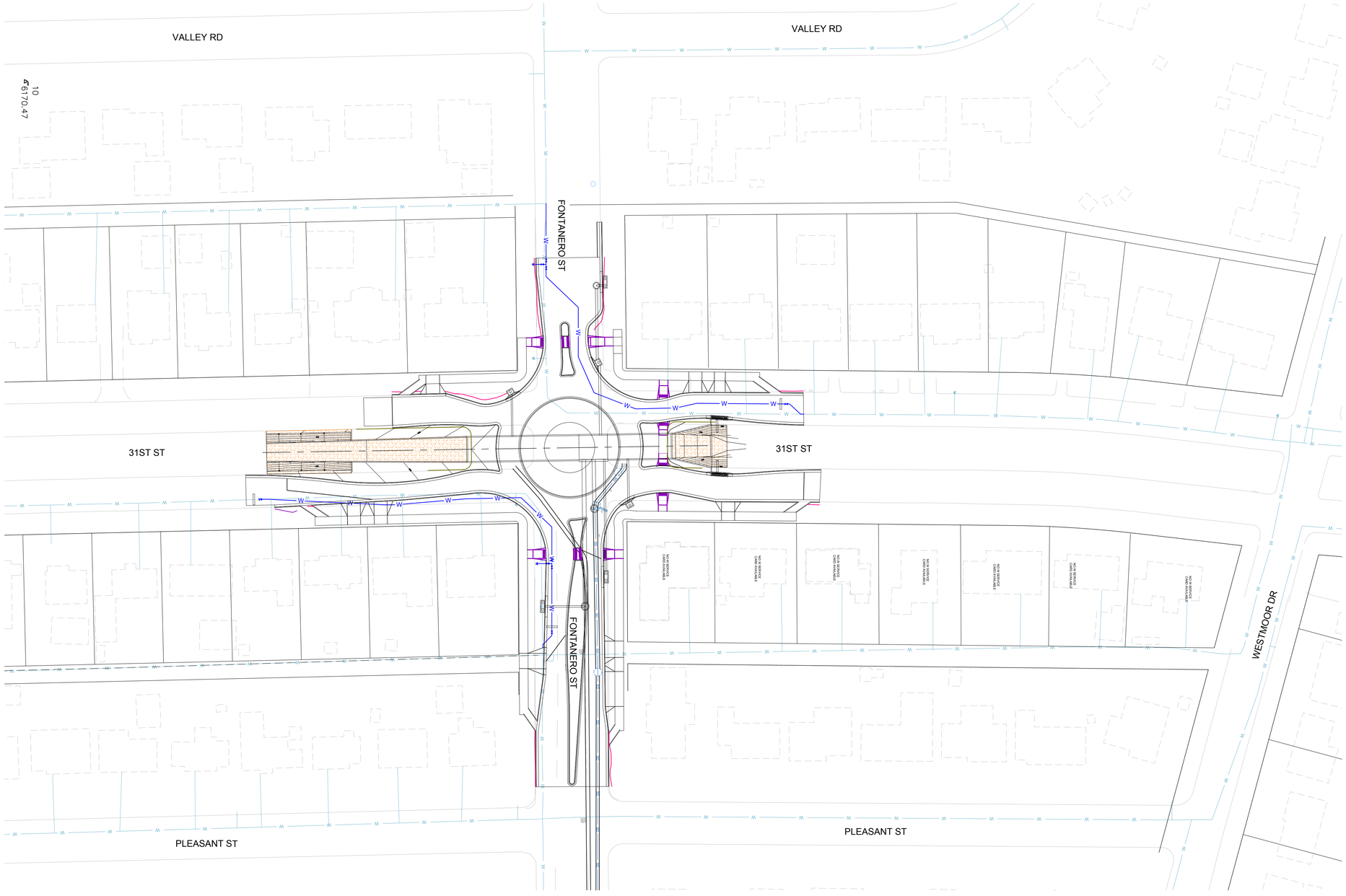
Colorado Springs Utilities
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31ST STREET AND FONTANERO STREET ROUNDABOUT
PROJECT WATERLINE REPLACEMENT PLANS

REPLACE APPROX. 870 LF OF 6" CIP W/ 850 LF OF 8" PVC

W3 ABBREVIATIONS & LEGEND

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 3 OF 10



50 25 0 50 100

1 INCH = 50 FT

COLORADO LICENSED
DAVID STRANDBERG
38711
PROFESSIONAL ENGINEER
11/25/2025

APPROVED FOR CONSTRUCTION

DRAWING PATH:M:\TRN\20-100-239-162_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\WL\31ST RA_OVERVIEW.DWG

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN

0 ½" 1"

GRAPHIC SCALE

THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
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EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
6"	CIP	HIGHLINE
MAX. STATIC PRESSURE	YEAR	MAP BOOK
102 PSI	1972	08041C0726G

Colorado Springs Utilities
It's how we're all connected

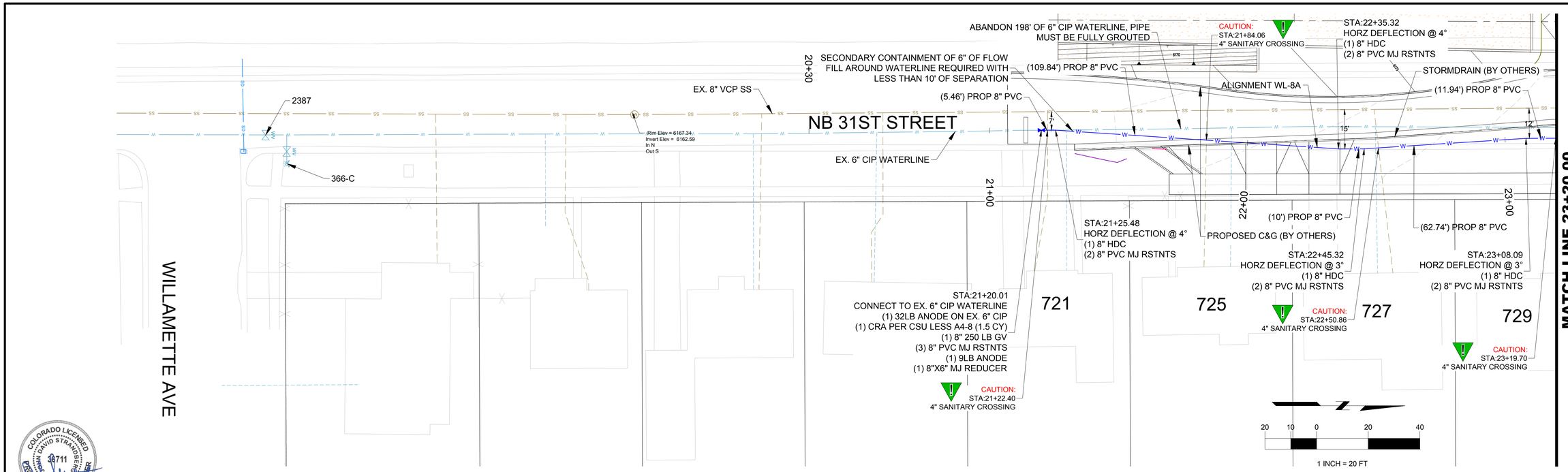
31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT WATERLINE REPLACEMENT PLANS

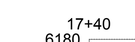
REPLACE APPROX. 870 LF OF 6" CIP W/ 850 LF OF 8" PVC

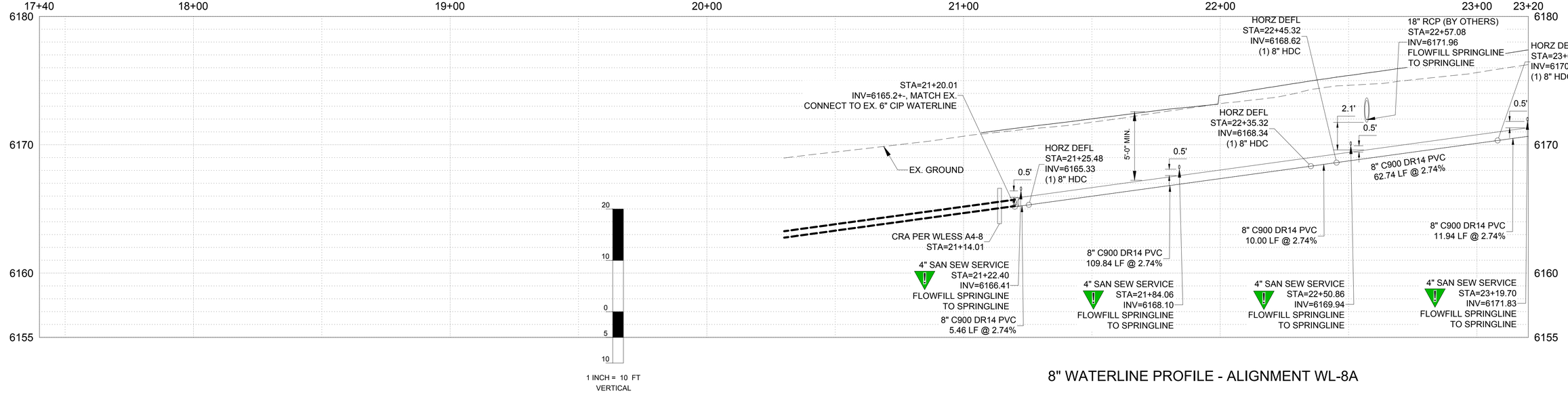
W4 WATERLINE PROJECT OVERVIEW PLAN

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 3 OF 10

R26-T008MZ







8" WATERLINE PROFILE - ALIGNMENT WL-8A

STA: 23+20.00 ELEV: 6171.0 MATCH LINE

DRAWING PATH:M:\TRN\20-100-239-162_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\WL\31ST RA_WL_EAST.DWG

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN

GRAPHIC SCALE 0 1"

THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-W1288

EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
6"	CIP	HIGHLINE
MAX. STATIC PRESSURE	YEAR	MAP BOOK
102 PSI	1972	08041C0726G

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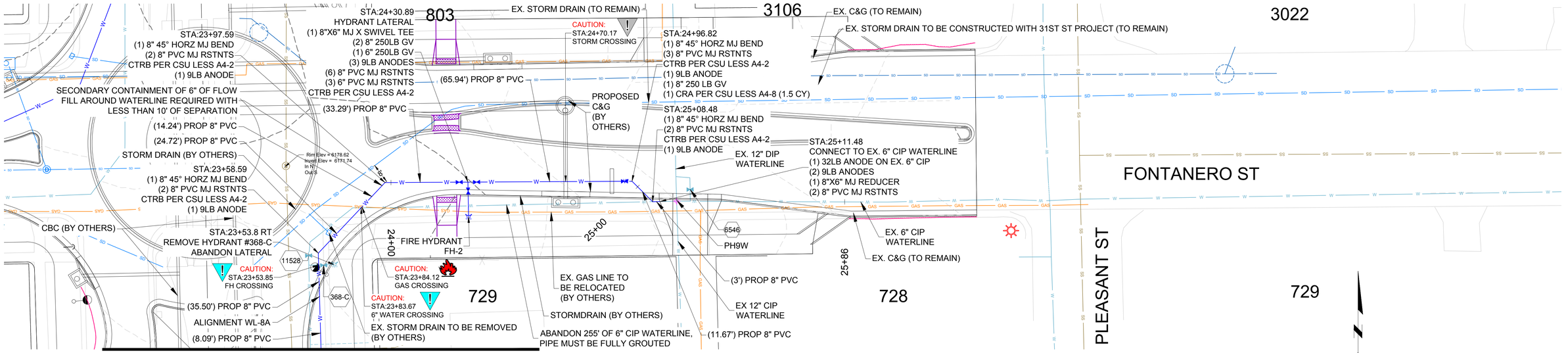
31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT WATERLINE REPLACEMENT PLANS

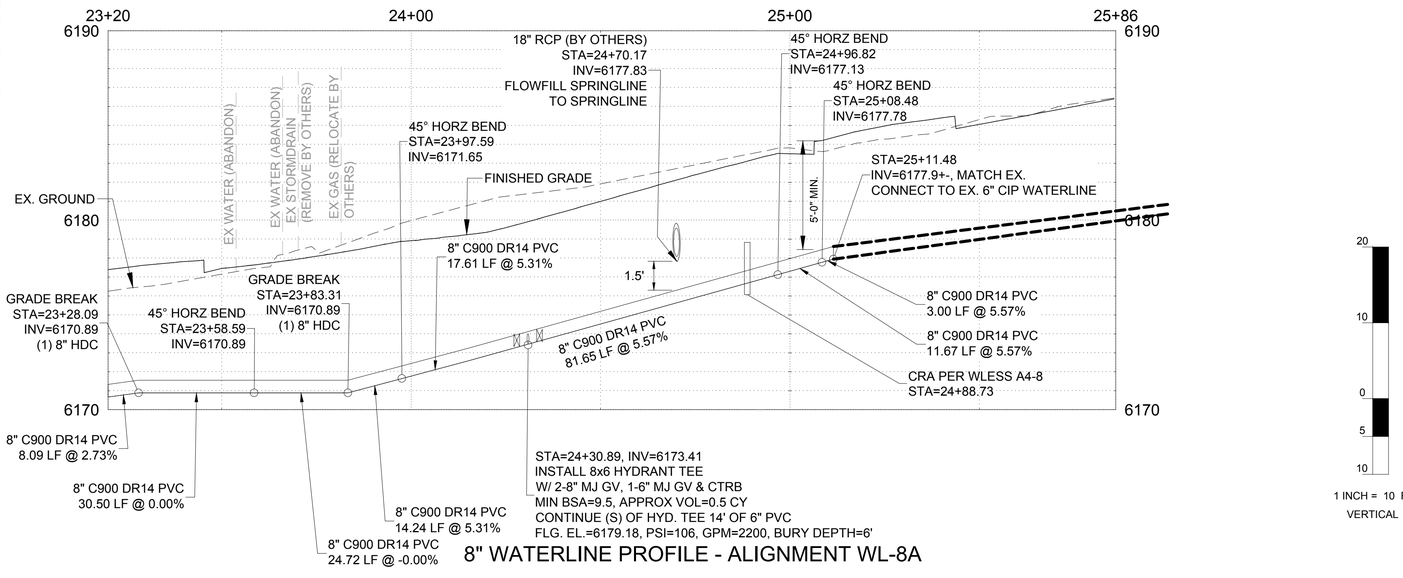
REPLACE APPROX. 806 LF OF 6" CIP W/ 779 LF OF 8" PVC

PLAN & PROFILE STA: 17+40 TO 23+20

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 5 OF 10

R26-T008MZ





COLORADO LICENSED
DAVID STRANSKY
38711
PROFESSIONAL ENGINEER
11/25/2025

DRAWING PATH: M:\TRN\20-100-239-162_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\WL\31ST RA_WL_EAST.DWG

R26-T008MZ

SCALE AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
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3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-W1288

EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
6"	CIP	HIGHLINE
MAX. STATIC PRESSURE	YEAR	MAP BOOK
102 PSI	1972	08041C0726G

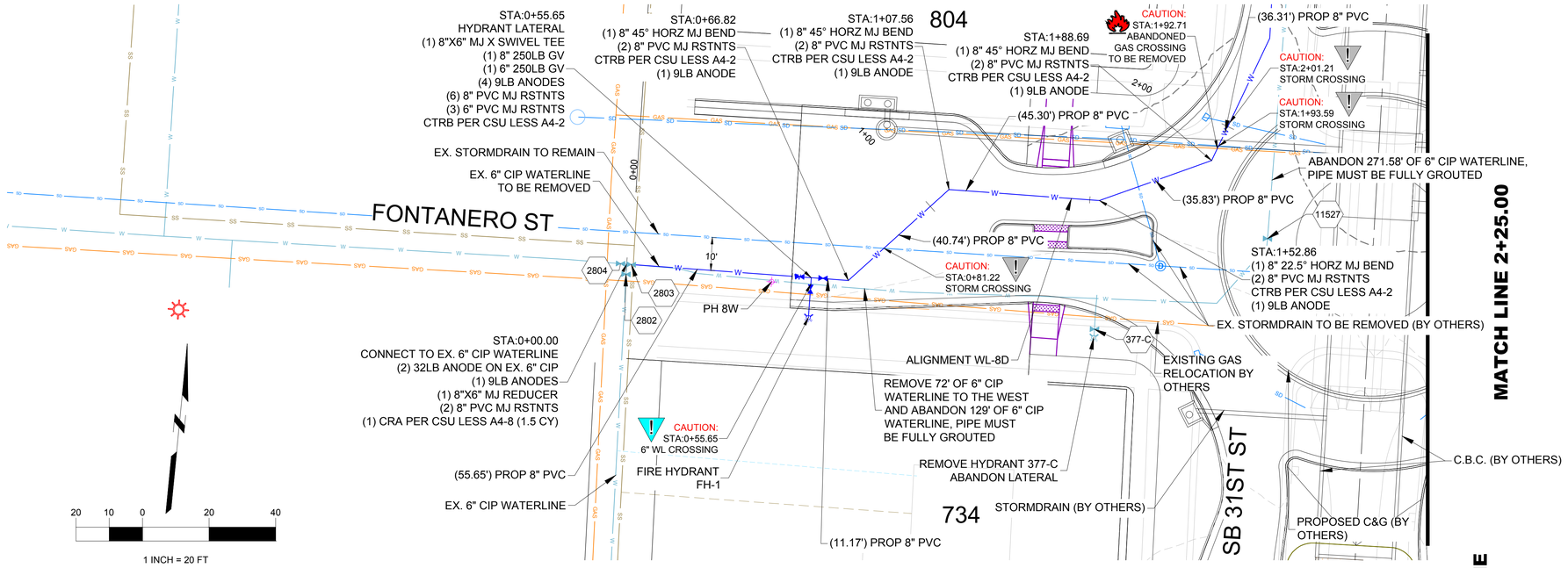
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31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT WATERLINE REPLACEMENT PLANS

REPLACE APPROX. 806 LF OF 6" CIP W/ 779 LF OF 8" PVC

PLAN & PROFILE STA: 23+20 TO 25+86

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 6 OF 10



*BEND SHOWN TO CONSIST OF:
1) 8" 45° VERT MJ BEND
(2) 8" PVC MJ RSTNTS
(1) 9LB ANODE

20 10 0 5 10
1 INCH = 10 FT
VERTICAL

8" WATERLINE PROFILE - ALIGNMENT WL-8D

DRAWING PATH=M:\TRN\20-100-239-16\2_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\WL31ST RA_WL_WEST.DWG

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE
AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1"
AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
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AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-W1288

EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
6"	CIP	HIGHLINE
MAX. STATIC PRESSURE	YEAR	MAP BOOK
102 PSI	1972	08041C0726G

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COLORADO LICENSED
DAVID STRANDBERG
38711
PROFESSIONAL ENGINEER
11/25/2025

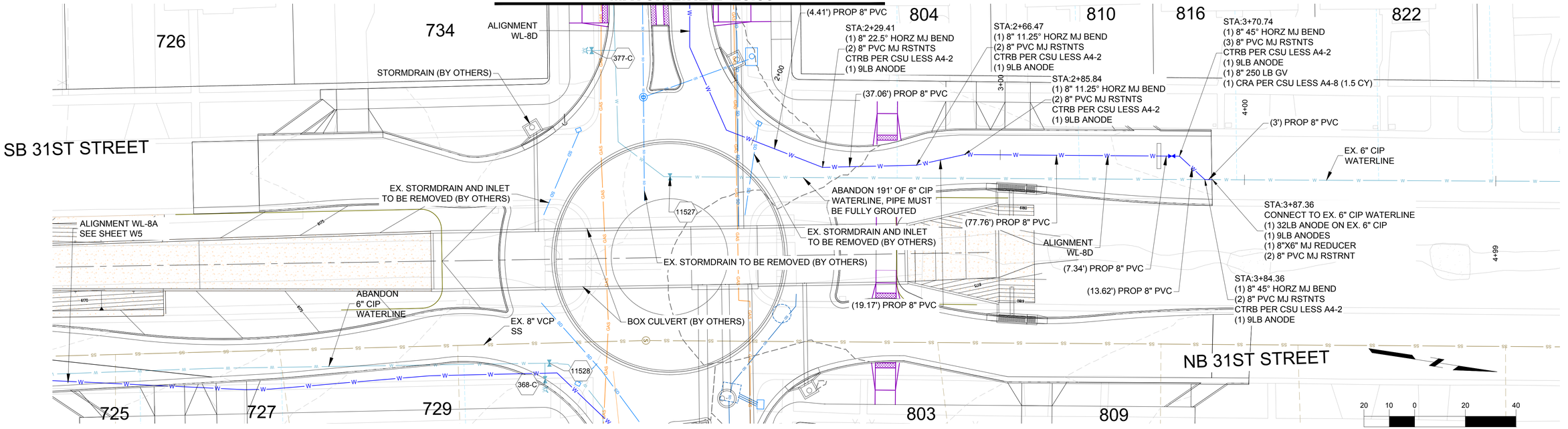
31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT WATERLINE REPLACEMENT PLANS

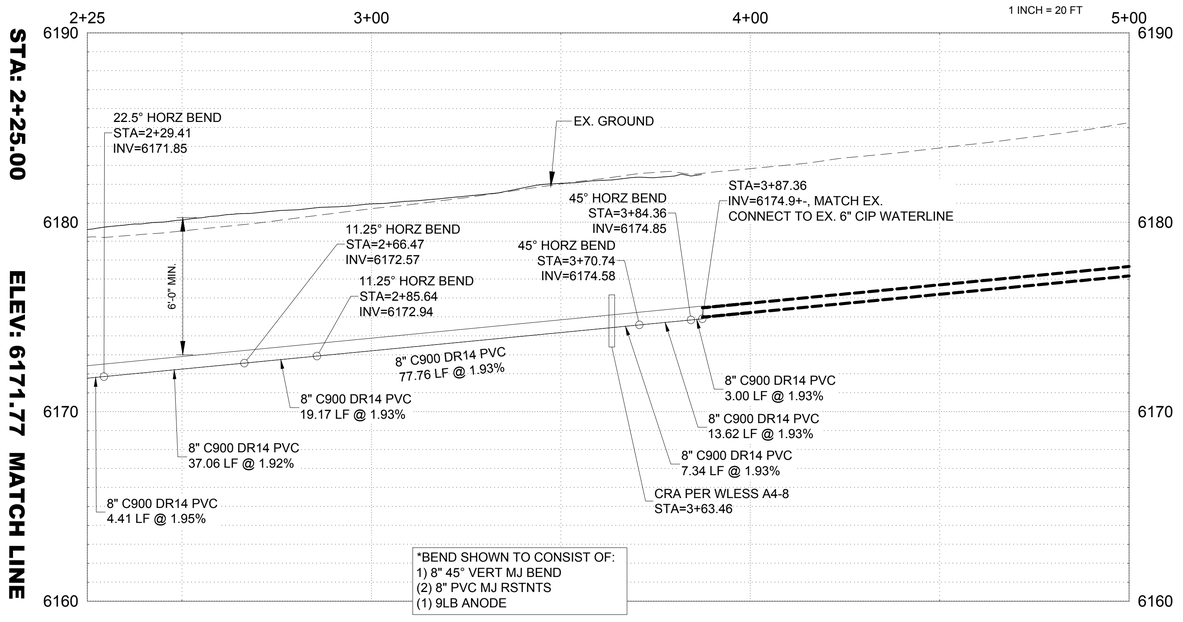
REPLACE APPROX. 806 LF OF 6" CIP W/ 779 LF OF 8" PVC

PLAN & PROFILE STA: 0+00 TO 2+00

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 7 OF 10

R26-T008MZ







1 INCH = 10 FT
VERTICAL

COLORADO LICENSED
DAVID STRANDBERG
38711
PROFESSIONAL ENGINEER
11/25/2025

8" WATERLINE PROFILE - ALIGNMENT WL-8D

DRAWING PATH:M:\TRN\20-100-239-162_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\WL\31ST RA_WL_WEST.DWG

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-W1288

EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
6"	CIP	HIGHLINE
MAX. STATIC PRESSURE	YEAR	MAP BOOK
102 PSI	1972	08041C0726G

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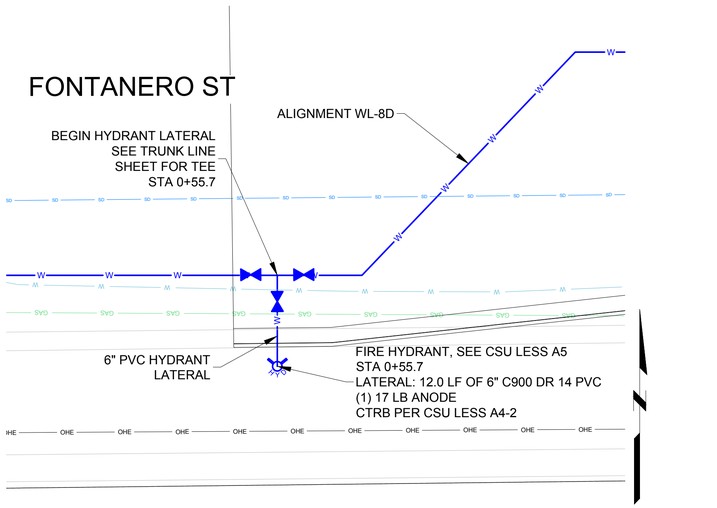
31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT WATERLINE REPLACEMENT PLANS

REPLACE APPROX. 806 LF OF 6" CIP W/ 779 LF OF 8" PVC

PLAN & PROFILE STA: 2+00 TO 5+00

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 8 OF 10

R26-T008MZ

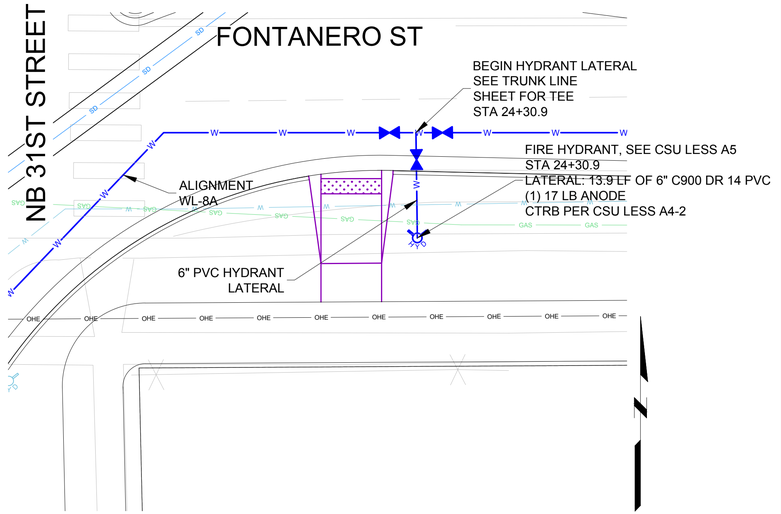


PROPOSED FIRE HYDRANT - NO. 1

(SEE SHEET W7 FOR LOCATION)

10 5 0 10 20

1 INCH = 10 FT



PROPOSED FIRE HYDRANT - NO. 2

(SEE SHEET W6 FOR LOCATION)

10 5 0 10 20

1 INCH = 10 FT

COLORADO LICENSED
DAVID STRAND
38711
PROFESSIONAL ENGINEER
11/25/2025

APPROVED FOR CONSTRUCTION

DRAWING PATH:M:\TRN\20-100-239-162_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\WL\FIRE HYDRANT PLAN - 2.DWG

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN

0 1/2" 1"

GRAPHIC SCALE

THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS		PARENT WO#
PROJECT MANAGER: DMZ		4193684
PROJECT DESIGNER: BR		PROJECT #
PROJECT SURVEYOR: AMD		2024-W1288
EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
6"	CIP	HIGHLINE
MAX. STATIC PRESSURE	YEAR	MAP BOOK
102 PSI	1972	08041C0726G

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31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT WATERLINE REPLACEMENT PLANS

REPLACE APPROX. 806 LF OF 6" CIP W/ 779 LF OF 8" PVC

W10 DETAILS

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 9 OF 10

R26-T008MZ

180

PER SLIP JOINT OF DIP PIPE

PIPE DATA	MFRS. DEFL.	DESIGN DEFLECTION (80% MAX.)		APPROX. RADIUS FOR DEFLECTING JOINTS WITHOUT BENDS	
PIPE SIZE		(HORZ DEFL.)	(VERT. DEFL.)	20'L	18'L
4"	5°00'	4°00'	6.99%	286'	258'
6"					
8"					
10"					
12"					
14"	4°00'	3°12'	5.59%	358'	322'
16"					
18"	3°00'	2°24'	4.19%	477'	430'
20"					
24"					
30"					
36"					
42"	2°00'	1°36'	2.79%	716'	645'

DATA FOR DIP PIPE

SHADED COLUMN IS MANUFACTURERS REFERENCE ONLY

PER SLIP JOINT OF PVC PIPE W/HIGH DEFLECTION COUPLINGS

	PIPE DATA	MFRS. DEFL. (ONE JOINT DEFL'W/ COUPL.	DESIGN DEFLECTION (80% MAX.)		MIN. RADIUS FOR DEFLECTING CURVES WITH HIGH DEFL. COUPLINGS
	PIPE SIZE		(HORZ DEFL.)	(VERT. DEFL.)	20'L
CLASS 305 (DR-14)	4"	5°00'	4°00'	6.99%	286'
	6"	5°00'	4°00'	6.99%	286'
	8"	5°00'	4°00'	6.99%	286'
	12"	5°00'	4°00'	6.99%	286'
CLASS 235 (DR-18)	16"	NO DEFLECTION COUPLINGS FOR 16" OR GREATER			

DATA FOR PVC PIPE

SHADED COLUMN IS MANUFACTURERS REFERENCE ONLY

NOTES:

1. COLORADO SPRINGS UTILITIES USES A 1.25 SAFETY FACTOR TO AVOID OVER DEFLECTION OF THE PIPE.
2. SLIP JOINT PVC PIPE SHALL NOT BE DEFLECTED WITHOUT THE USE OF HIGH DEFLECTION COUPLINGS (HDC).

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MAXIMUM PIPELINE DEFLECTION
DATA FOR DIP AND PVC PIPE

A4-1 — DATED 03/2014

THRUST BLOCK DIMENSIONS and VOLUMES - PVC & DIP 250 psi

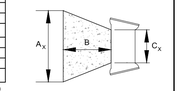
MAIN SIZE (in.)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (ft²)	MINIMUM A_x (ft)	MINIMUM A_y (ft)	MINIMUM C_x (ft)	MINIMUM C_y (ft)	MINIMUM B (ft)	APPROXIMATE VOLUME (yd³)
4	11.25° BEND	1.00	1.00	1.00	0.25	0.33	2.00	0.25
4	22.5° BEND	2.00	1.41	1.41	0.21	0.33	2.00	0.25
4	45° BEND	3.50	1.87	1.87	0.42	0.33	2.00	0.25
4	TEE & DEAD END	4.75	2.18	2.18	0.67	0.33	2.00	0.25
6	11.25° BEND	2.00	1.41	1.41	0.25	0.50	2.00	0.25
6	22.5° BEND	3.75	1.94	1.94	0.38	0.50	2.00	0.25
6	45° BEND	7.25	2.69	2.69	0.58	0.50	2.00	0.25
6	TEE & DEAD END	9.50	3.08	3.08	0.83	0.50	2.00	0.50
8	11.25° BEND	3.25	1.80	1.80	0.34	0.67	2.00	0.25
8	22.5° BEND	6.50	2.55	2.55	0.46	0.67	2.00	0.25
8	45° BEND	12.50	3.57	3.50	0.67	0.67	2.00	0.50
8	TEE & DEAD END	16.25	4.64	3.50	1.08	0.67	2.00	0.75

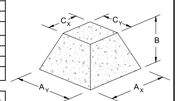
THRUST BLOCK DIMENSIONS and VOLUMES - PVC (Maximum Static Pressure = 170 psi)

MAIN SIZE (in.)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (ft²)	MINIMUM A_x (ft)	MINIMUM A_y (ft)	MINIMUM C_x (ft)	MINIMUM C_y (ft)	MINIMUM B (ft)	APPROXIMATE VOLUME (yd³)
12	11.25° BEND	4.75	2.18	2.18	0.43	1.00	2.00	0.25
12	22.5° BEND	9.25	3.04	3.04	0.64	1.00	2.00	0.50
12	45° BEND	18.00	4.82	3.66	1.00	1.00	2.00	0.75
12	TEE & DEAD END	23.50	6.42	3.66	1.46	1.00	2.48	1.00
16	11.25° BEND	8.00	2.83	2.83	0.44	1.33	2.00	0.50
16	22.5° BEND	16.00	4.27	3.75	0.66	1.33	2.00	0.75
16	45° BEND	31.00	6.27	3.75	1.00	1.33	3.64	1.75
16	TEE & DEAD END	40.50	10.80	3.75	1.92	1.33	4.44	3.00

THRUST BLOCK DIMENSIONS and VOLUMES - DIP (Maximum Static Pressure = 250 psi)

MAIN SIZE (in.)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (ft²)	MINIMUM A_x (ft)	MINIMUM A_y (ft)	MINIMUM C_x (ft)	MINIMUM C_y (ft)	MINIMUM B (ft)	APPROXIMATE VOLUME (yd³)
12	11.25° BEND	6.75	2.60	2.60	0.43	1.00	2.00	0.50
12	22.5° BEND	13.50	3.69	3.66	0.64	1.00	2.00	0.50
12	45° BEND	26.25	7.17	3.66	1.00	1.00	3.09	1.50
12	TEE & DEAD END	34.25	9.36	3.66	1.46	1.00	3.95	2.25
16	11.25° BEND	11.75	3.43	3.43	0.44	1.33	2.00	0.50
16	22.5° BEND	23.25	6.20	3.75	0.66	1.33	2.77	1.00
16	45° BEND	45.50	12.13	3.75	1.00	1.33	5.57	4.00
16	TEE & DEAD END	59.50	15.87	3.75	1.92	1.33	6.98	6.50





NOTES:

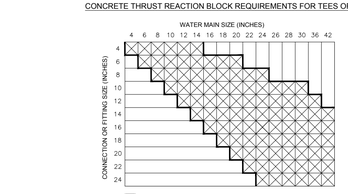
1. THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5 AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 POUNDS PER SQUARE FOOT. BEARING SURFACE AREA IS ROUNDED UP TO THE NEAREST 0.25 SQUARE FEET. REFERENCE AWWA M-23 AND M-41.
2. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS THE DESIGN ENGINEER SHALL PROVIDE A SITE SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO COLORADO SPRINGS UTILITIES FOR REVIEW.
3. THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS CONSTRUCTED MIX DESIGNS. SEE PIPE MATERIAL CHAPTER 4.
4. A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 16 INCHES OR MAX STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX STATIC PRESSURES LESS THAN 250 POUNDS PER SQUARE INCH.
5. THESE CHARTS MAY ONLY BE USED IF THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE HALF THE TOTAL DEPTH (Hh) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5 FEET. SEE DETAIL DRAWING A4-3.
6. A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 16 INCHES OR MAX STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX STATIC PRESSURES LESS THAN 250 POUNDS PER SQUARE INCH.
7. ALL CALCULATIONS SHALL BE PROVIDED TO COLORADO SPRINGS UTILITIES FOR REVIEW.

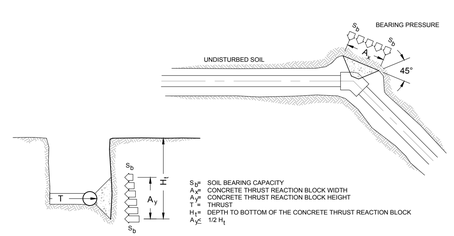
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CONCRETE THRUST REACTION BLOCKS

A4-2 — DATED 03/2014

CONCRETE THRUST REACTION BLOCK REQUIREMENTS FOR TEES OR TAPS





S_B = SOIL BEARING CAPACITY
A_C = CONCRETE THRUST REACTION BLOCK WIDTH
A_y = CONCRETE THRUST REACTION BLOCK HEIGHT
T = THRUST
H_h = DEPTH TO BOTTOM OF THE CONCRETE THRUST REACTION BLOCK
A_C = 12 H_h

NOTES:

1. A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR CONNECTIONS OR FITTING SIZE COMBINATIONS NOT SHOWN ABOVE.
2. THE CONCRETE THRUST REACTION BLOCK SHALL BEAR AGAINST UNDISTURBED SOIL.
3. THE CONCRETE THRUST REACTION BLOCK SHALL BE INSTALLED WITH A 45° ANGLE FROM THE FITTING TO THE UNDISTURBED SOIL AS SHOWN IN THE DRAWING ABOVE.
4. REFER TO DETAIL DRAWING A4-2 FOR STANDARD CONCRETE THRUST REACTION BLOCK DIMENSIONS AND VOLUMES.
5. DUCTILE IRON FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE TUBING WHERE ADJACENT TO CONCRETE.

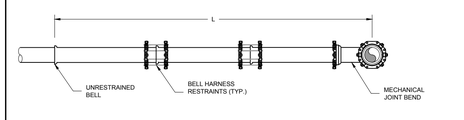
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CONCRETE THRUST REACTION BLOCKS

A4-3 — DATED 03/2014

L = MINIMUM RESTRAINED PIPE LENGTH (FEET)

PIPE DIAMETER	45° BEND			22-1/2° BEND			11-1/4° BEND			DEAD END VALVE OR PLUG, TO INCLUDE IN LINE VALVES (SEE NOTE 8)		
MAX. STATIC PRESSURE (PSI)	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200
6 INCH DUCTILE IRON AND PVC	6	9	12	3	5	6	2	3	3	49	73	97
8 INCH DUCTILE IRON AND PVC	8	12	16	4	6	8	2	3	4	63	94	125
12 INCH DUCTILE IRON AND PVC	12	17	23	6	8	11	3	4	6	89	133	177
16 INCH DUCTILE IRON AND PVC	15	22	29	7	11	14	4	5	7	USE CONCRETE REVERSE ANCHOR	USE CONCRETE REVERSE ANCHOR	USE CONCRETE REVERSE ANCHOR
20 INCH DUCTILE IRON AND PVC	18	26	35	9	13	17	4	6	8			
24 INCH DUCTILE IRON AND PVC	20	30	40	10	15	20	5	7	10			
30 INCH DUCTILE IRON AND PVC	24	36	48	12	18	24	6	9	12			
36 INCH DUCTILE IRON AND PVC	28	42	56	14	20	27	7	10	14			



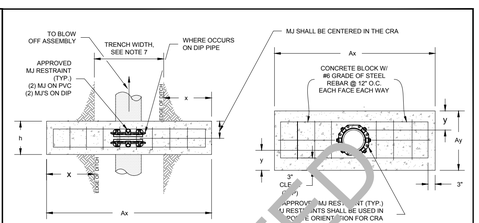
NOTES:

1. PRESSURE GREATER THAN 200 PSI REQUIRE SPECIAL DESIGN APPROVED BY SPRINGS UTILITIES. APPROVED BY COLORADO SPRINGS UTILITIES.
2. LENGTH IS BASED ON MINIMUM 5 FEET OF GROUND COVER AND SOIL COMPACTED ACCORDING TO CHAPTER 5 OF THESE WATER LESS. IF THE DEPTH IS LESS THAN 5 FEET RESTRAINED LENGTH MUST BE DESIGNED BY THE DESIGN ENGINEER.
3. APPROVED METHODS OF RESTRAINED PIPE BEYOND INITIAL FITTING SHALL BE IN ACCORDANCE WITH CHAPTER 4.
4. RESTRAINED PIPE LENGTH APPLIES TO CONDITIONS WHERE NO CONCRETE THRUST REACTION BLOCK IS PRESENT.
5. CALCULATIONS ARE BASED ON A POORLY GRADED SANDS, GRAVEL AND GRAVEL-SAND MIXTURE, LITTLE OR NO FINES, TYPE 4 BEDDING CONDITIONS - "PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO A DEPTH OF 1/8 PIPE DIAMETER (4" MIN.)." FACTOR OF SAFETY 2:1.
6. FIGURES ARE BASED ON DIP WRAPPED IN POLYETHYLENE MATERIAL.
7. MEASUREMENTS ARE IN FEET.
8. USE CRA FOR DOWN TURNING BENDS.
9. RESTRAINED LENGTH FOR DEAD END MAY BE USED AT THE DISCRETION OF COLORADO SPRINGS UTILITIES.

Colorado Springs Utilities — It's how we're all connected

RESTRAINED
PIPE LENGTH (FEET)
W/MECHANICAL JOINT RESTRAINTS

A4-4 — DATED 03/2014



PLAN
DEAD END OR
REVERSE ANCHOR

ELEVATION
DEAD END OR
REVERSE ANCHOR

DIAMETER (in)	PRESSURE (psi)	x (ft)	Ax (in)	y (in)	Ay (in)	Ab (sf)	h (in)	Vol (cy)
4	250	12	72	12	28.80	6.80	18	1.0
6	250	18	84	12	30.90	9.73	18	1.0
8	250	18	96	12	33.05	18.53	18	1.5
12	170	36	120	15	43.20	24.60	18	2.0
12	250	18	144	18	49.20	36.80	24	3.75
16		54	156	18	53.40	44.05	24	4.25
16	250	60	168	24	65.40	60.50	36	8.5

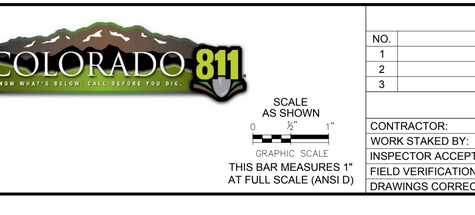
NOTES:

1. THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5, AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 POUNDS PER SQUARE FOOT. FOR HDPE ADDITIONAL ASSUMPTIONS INCLUDE A 73°F TO 50°F TEMPERATURE CHANGE AND A POISSON RATIO OF 0.45. REFERENCE AWWA M-23, M-41 AND M-55.
2. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTION BASED ON ACTUAL SITE CONDITIONS. IF SITE VARY FROM THE ASSUMPTIONS THE DESIGN ENGINEER SHALL PROVIDE A SITE SPECIFIC DESIGN THAT SHALL BE IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE SPECIFIC DESIGNS USING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO COLORADO SPRINGS UTILITIES FOR APPROVAL.
3. THE MINIMUM LATERAL BEARING SURFACE AREA (Ab) AND APPROXIMATE VOLUME OF CONCRETE (Vol) SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE REVERSE ANCHORS.
4. THE APPROXIMATE VOLUME SHOWN ARE BASED ON THE MINIMUM DIMENSIONS IN THE TABLE. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.
5. A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 16 INCHES OR MAX STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX STATIC PRESSURES LESS THAN THE PRESSURE LISTED IN THE TABLE.
6. FOR CORROSION PROTECTION OF THE RODS SEE DETAIL DRAWING A8-11.
7. A TRENCH WIDTH OF 4 FEET AND 6" BEDDING UNDER THE PIPE ARE ASSUMED FOR BEARING CALCULATIONS, (Ax, Ay, x AND y).
8. THE DESIGN ENGINEER SHALL ENSURE THE CONSTRUCTION OF THE CONCRETE REVERSE ANCHOR SHALL NOT CONFLICT WITH OTHER UTILITIES.
9. DUCTILE IRON FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE TUBING WHERE ADJACENT TO CONCRETE.
10. THE REBAR IS TO BE POSITIONED CONSISTENTLY THROUGHOUT THE ENTIRE THREE-DIMENSIONAL (3D) VOLUME OF THE CRA TO PROVIDE REINFORCEMENT. THE MAXIMUM HORIZONTAL AND VERTICAL SPACING BETWEEN INDIVIDUAL RODS OF REBAR IS 12" ON CENTER (O.C.). THIS SPACING MAY DECREASE DEPENDING ON THE DIMENSIONS OF THE CRA BUT CANNOT EXCEED 12". THE SPACING USED BETWEEN RODS OF REBAR SHALL BE CONSISTENT THROUGHOUT THE CRA.
11. THERE SHALL BE 3" CLEARANCE OF NON-REINFORCED CONCRETE CREASED THE REINFORCED PORTION OF THE CRA ON ALL SIDES WITHIN THE CD VOLUME. ANY DEVIATIONS FROM 3" CLEAR SPACE WILL REQUIRE CUSTOM CALCULATIONS PER SECTION 2.6.F.7.

Colorado Springs Utilities — It's how we're all connected

CONCRETE REVERSE ANCHOR
FOR MECHANICAL JOINT RESTRAINTS

A4-8 — DATED 06/2023



LOT LINE LOCATIONS

FLAG LOT LOCATIONS

PAD AND VAULT ACCESS CLEARANCES

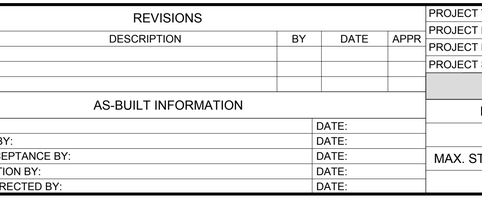
NOTES:

1. HYDRANT NOZZLE SHALL BE POSITIONED AT RIGHT ANGLES TO THE NEAREST CURB. IF NO CURB OR SIDEWALK EXIST, NOZZLE SHALL BE PLACED AT RIGHT ANGLE TO STREET OR ALLEY.
2. HYDRANTS INSTALLED AT FLAG LOT LINES SHALL BE OFFSET 3' FROM THE LOT LINE.
3. HYDRANTS SHALL BE PLACED A MINIMUM OF 5.0 FEET FROM ANY UTILITY OR DRAINAGE STRUCTURE. (TO BE COORDINATED WITH JOINT TRENCH INSTALLATION).
4. EASEMENTS MUST BE PROVIDED FOR ANY PUBLIC HYDRANT WHICH IS CLOSER THAN 5.0 FEET INSIDE THE RIGHT-OF-WAY LINE.
5. A SAFE WORKING CLEARANCE IS NECESSARY FOR THE FIRE DEPARTMENT TO IDENTIFY, ATTACH HOSES TO AND OPERATE A FIRE HYDRANT IN CASE OF AN EMERGENCY. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS EXCEPT AS OTHERWISE REQUIRED OR APPROVED BY THE COLORADO SPRINGS FIRE DEPARTMENT.
6. FIRE HYDRANTS SHALL BE INSTALLED WITH CLEARANCES PER THE MOST CURRENT APPROVED IFC.

Colorado Springs Utilities — It's how we're all connected

FIRE HYDRANT LOCATIONS

A5-1 — DATED 03/2014



STANDARD PEDESTRIAN RAMP
LAYOUT FOR CURB RETURN
RADIUS 20' OR LESS

STANDARD PEDESTRIAN RAMP
LAYOUT FOR CURB RETURN
RADIUS 25' OR GREATER

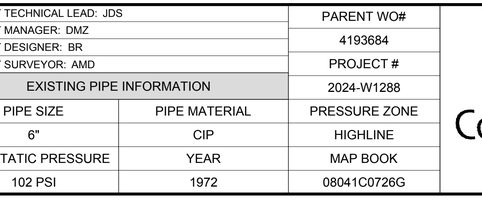
NOTES:

1. THE FIRE HYDRANT SHALL BE LOCATED BEHIND THE POINT OF CURB RETURN FOR CURB RETURN RADIUS 25 FEET OR GREATER.
2. WHERE THE CURB RETURN RADIUS IS 20 FEET OR LESS THE CENTER OF THE HYDRANT SHALL BE LOCATED 20 FEET OFF OF THE BACK OF CURB OF THE INTERSECTING STREET.
3. IN ALL CASES THE FIRE HYDRANT SHALL BE LOCATED A MINIMUM OF 2 FEET OUTSIDE OF THE PEDESTRIAN RAMP OR SIDEWALK.
4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR THE DEVELOPER'S ENGINEER TO VERIFY THAT PROPOSED HYDRANT LOCATIONS WILL NOT CONFLICT WITH ANY OTHER UTILITIES, FACILITIES, PEDESTRIAN RAMP INSTALLATIONS, DRAINAGE FACILITIES, PROPOSED PROPERTY STRUCTURES OR IMPROVEMENTS PRIOR TO BEGINNING CONSTRUCTION.

Colorado Springs Utilities — It's how we're all connected

FIRE HYDRANT LOCATIONS

A5-2 — DATED 03/2014



ELEVATION

ELEVATION

NOTE:
DIP LATERALS AND HYDRANTS SHALL BE POLY WRAPPED AND INCLUDE 1-17lb. ANODE.

NOTES:

1. MECHANICAL JOINT RESTRAINTS SHALL BE INSTALLED PER DETAIL DRAWINGS A4-4, A4-5, & CHAPTER 5.
2. TRACER WIRE AND GROUND LEVEL TEST BOX TO BE INSTALLED WITH EACH FIRE HYDRANT. PLACE TEST BOX WITHIN 6" FROM THE HYDRANT.
3. REFERENCE DETAIL DRAWINGS A5-1 & A5-2 FOR FIRE HYDRANT LOCATION.
4. INSTALLATION OF A PRIVATE FIRE HYDRANT WILL REQUIRE A SECONDARY VALVE INSTALLED AT THE PROPERTY LINE.
5. HYDRANT BASE BLOCK SHALL BE PLACED ON UNDISTURBED EARTH.
6. DO NOT BLOCK WEEP HOLE WITH POLYWRAP.
7. COVER DRAIN ROCK WITH POLYWRAP PRIOR TO BACKFILL.
8. FOR HOPE HYDRANT CONNECTION SEE DETAIL DRAWING A10-9.
9. FOR PRIVATE FIRE HYDRANTS A SECONDARY VALVE SHALL BE INSTALLED ON THE PROPERTY LINE OR RIGHT-OF WAY LINE.

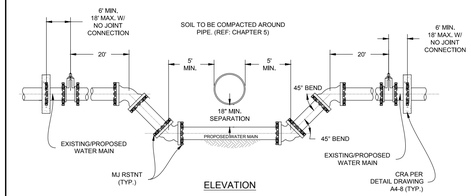
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FIRE HYDRANT INSTALLATION

A5-3 — DATED 03/2014

FIRE HYDRANT PAINT SCHEME (Reference Chapter 5)		
0-499	Red	Bonnet only
500-999	Bright Orange	Bonnet only
1,000 - 1,499	Bright Green	Bonnet only
1,500 - 2,999	Ford Blue	Bonnet only
Above 3,000	Ford Blue	Bonnet & Streamer Cap
-	Yellow	All Barrels

PLAN



ELEVATION

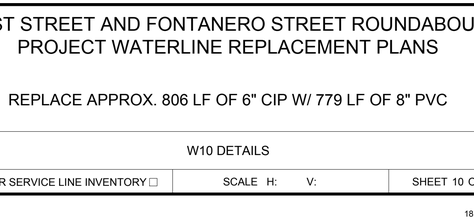
NOTES:

1. ALL DUCTILE IRON FITTINGS AND PIPE SHALL BE CATHODICALLY PROTECTED PER SECTION 2.6.I.
2. ALL FITTINGS SHALL HAVE MJ RESTRAINTS IN ACCORDANCE WITH CHAPTER 5.
3. EXAMPLE CAN VARY DUE TO SITE CONDITIONS AND COLORADO SPRINGS UTILITIES INSPECTOR'S DIRECTION.
4. RESTRAINED JOINTS ARE REQUIRED WITHIN LOWERING.
5. NO TAPS OR TEES ARE ALLOWED WITHIN THE LOWERING.
6. WHERE WATER MAIN CROSSES UNDER STORM SEWER, WASTEWATER OR NON-POTABLE WATER INFRASTRUCTURE, REFERENCE SECTION 2.6-H.2.

Colorado Springs Utilities — It's how we're all connected

LOWERING DETAIL
UTILITY CROSSING 30" & SMALLER

A7-1 — DATED 03/2014



NOTES:

1. ALL DUCTILE IRON FITTINGS AND PIPE SHALL BE CATHODICALLY PROTECTED PER SECTION 2.6.I.
2. ALL FITTINGS SHALL HAVE MJ RESTRAINTS IN ACCORDANCE WITH CHAPTER 5.
3. EXAMPLE CAN VARY DUE TO SITE CONDITIONS AND COLORADO SPRINGS UTILITIES INSPECTOR'S DIRECTION.
4. RESTRAINED JOINTS ARE REQUIRED WITHIN LOWERING.
5. NO TAPS OR TEES ARE ALLOWED WITHIN THE LOWERING.
6. WHERE WATER MAIN CROSSES UNDER STORM SEWER, WASTEWATER OR NON-POTABLE WATER INFRASTRUCTURE, REFERENCE SECTION 2.6-H.2.

Colorado Springs Utilities — It's how we're all connected

LOWERING DETAIL W/CASING
UTILITY CROSSING GREATER THAN 30"

A7-2 — DATED 03/2014

COLORADO LICENSED
DAVID STRAUSBERG
38711
PROFESSIONAL ENGINEER
11/25/2025

APPROVED FOR CONSTRUCTION

COLORADO 811 — KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS		PARENT WO#
PROJECT MANAGER: DMZ		4193684
PROJECT DESIGNER: BR		PROJECT #
PROJECT SURVEYOR: AMD	

Colorado Springs Utilities
It's how we're all connected

WILSON & COMPANY
5755 MARK DABLING BLVD, SUITE 100
COLORADO SPRINGS, CO 80919
PHONE: 719-520-5800
FAX: 719-520-0108
www.wilsonco.com

SYSTEM PLANNING & PROJECTS
ENGINEERING & DESIGN DEPARTMENT
WATER & WASTEWATER DESIGN

31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT SANITARY LOWERING PLANS

REPLACE APPROX. 221 LF OF 8" VCP W/ 221 LF OF 8" PVC

APPROVED FOR CONSTRUCTION

Approved By: SEE STAMP BELOW — Project Technical Lead — Date

Approved By: _____ — Project Manager — Date

Approved By: _____ — Construction Coordinator — Date

Approved By: _____ — Water Distribution Manager — Date

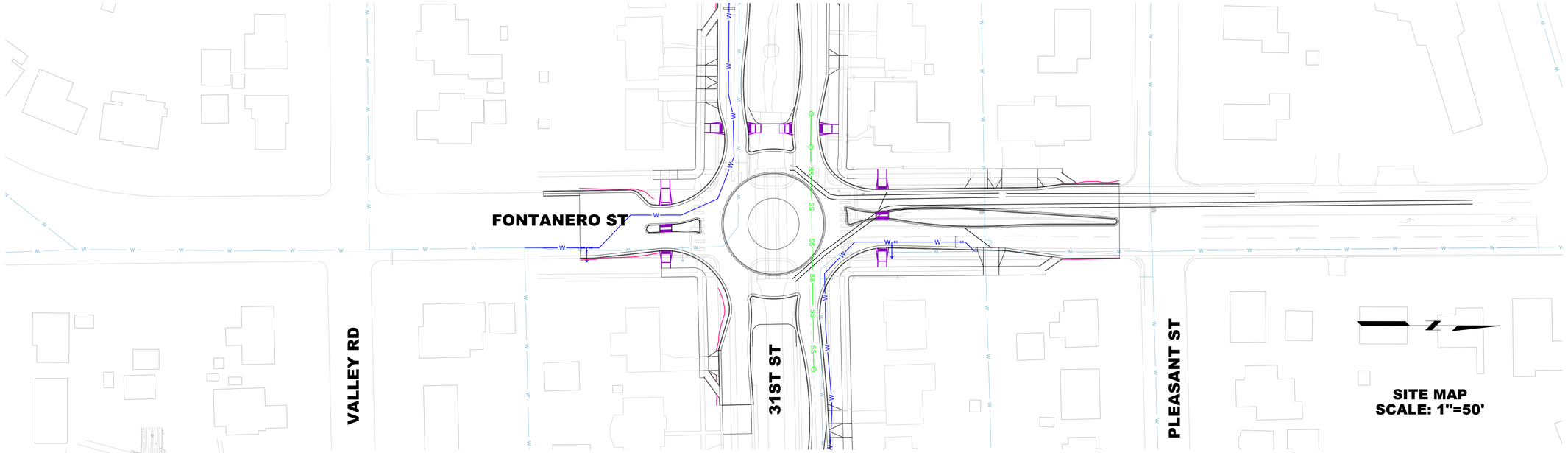
Approved By: _____ — Prepared Under My Direct Supervision For and On Behalf of Colorado Springs Utilities — Date

COLORADO SPRINGS UTILITIES
WASTEWATER MAIN DESIGN APPROVAL

APPROVED
12/12/2025 8:31:36 AM
mlwilliams
Wastewater
Colorado Springs Utilities
It's how we're all connected

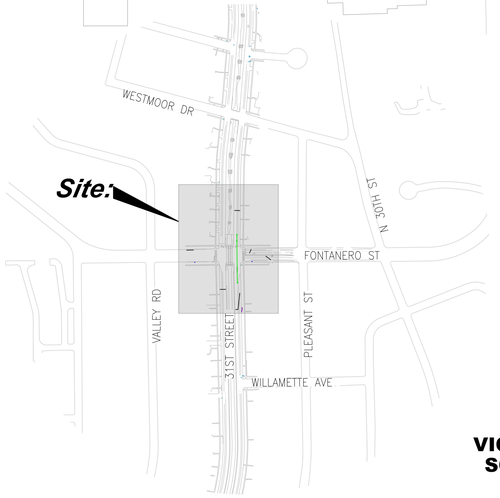
PROJECT NUMBER: 2024-S1288
WORK ORDER NUMBER: 4333064

APPROVAL EXPIRES ONE (1) YEAR FROM THE DATE ABOVE AND RESUBMITTAL OF THESE PLANS FOR REVIEW AND APPROVAL IS REQUIRED IF CONSTRUCTION DOES NOT BEGIN DURING THIS PERIOD.



SITE MAP
SCALE: 1"=50'

31ST ST AND FONTANERO ST



VICINITY MAP
SCALE: NTS

COLORADO LICENSED
DAVID STRANDBERG
38711
PROFESSIONAL ENGINEER
11/25/2025

APPROVED FOR CONSTRUCTION

SCALE
AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

COLORADO 811
KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

PROJECT TECHNICAL LEAD: JDS
PROJECT MANAGER: DMZ
PROJECT DESIGNER: BR
PROJECT SURVEYOR: AMD
REVISIONS:

AS-BUILT INFORMATION

CONTRACTOR: BEGIN:
WORK STAKED BY: END:
INSPECTOR ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:

31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT
SANITARY LOWERING PLANS
REPLACE APPROX. 221 LF OF 8" VCP W/ 221 LF OF 8" PVC
S1 COVER

EXISTING PIPE INFORMATION
PIPE MATERIAL
VCP
YEAR
1955
PIPE SIZE
8"
MAX. STATIC PRESSURE
N/A
PARENT WO#
4193684
PROJECT #
2024-S1288
PRESSURE ZONE
N/A
MAP BOOK
08041C0726G
WATER SERVICE LINE INVENTORY ☐

SHEET 1 OF 6

DRAWING PATH:M:\TRN\20-100-239-162_DISCIPLINES_SHEETS\6_SHEETS - UTILITIES\SS\COVER.DWG

GENERAL NOTES

THE CONTRACTOR SHALL NOTIFY COLORADO SPRINGS UTILITIES' INSPECTIONS OFFICE 719-668-4658 A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET *COLORADO SPRINGS UTILITIES' WASTEWATER LINE EXTENSION AND SERVICE STANDARDS* (WASTEWATER STANDARDS).
2. THE CONTRACTOR SHALL OBTAIN LOCATES PRIOR TO ANY EXCAVATION.
3. COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF LOCATIONS OF EXISTING PIPELINES, MANHOLES AND SERVICE LINES. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE ENGINEER OF RECORD IMMEDIATELY.
4. NO TREES OR STRUCTURES ARE PERMITTED WITHIN FIFTEEN FEET (15') OF A WASTEWATER MAIN.
5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY FACILITIES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF COLORADO SPRINGS UTILITIES.
6. ALL FIELD STAKING SHALL COMPLY WITH THE WASTEWATER STANDARDS.
7. THE CONTRACTOR SHALL ENSURE THAT WASTEWATER SERVICE TO ADJACENT PROPERTIES IS MAINTAINED DURING CONSTRUCTION.
8. ALL MANHOLES LOCATED WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO FINISH GRADE. IF MANHOLES ARE IN POOR CONDITION OR IF THE DISTANCE BETWEEN THE RING/COVER AND CONE OF THE MANHOLE EXCEEDS THE WASTEWATER STANDARDS, THE CONTRACTOR MAY BE REQUIRED TO REPLACE PART OR ALL OF THE EXISTING MANHOLES.
9. REUSE OR SALVAGE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE COLORADO SPRINGS UTILITIES INSPECTOR.
10. ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE *CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS MANUAL*.
11. PIPELINES LESS THAN 1.04% GRADE ARE PROPOSED. THE CONTRACTOR SHALL COMPLY WITH THE ADDITIONAL REQUIREMENTS AS SPECIFIED WITHIN THE WASTEWATER STANDARDS.
12. THIS PROJECT IS UTILIZING EXISTING WASTEWATER STUB(S) IN AN "AS-IS" CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE STUB(S), CONNECTION, AND SUBSEQUENT EXTENSION MEET ALL CURRENT WASTEWATER STANDARDS AND DO NOT HAVE ANY DEFECTS.
13. COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF THE DEPTH, LOCATION, OR CONDITION OF ANY EXISTING STUB(S) SHOWN ON ANY "AS CONSTRUCTED" DRAWINGS. FURTHER, THE EXISTING STUB SHALL BE INCLUDED IN THE TWO-YEAR WARRANTY PERIOD FOR THIS PROJECT.
14. SERVICE STUBS SHALL BE INSTALLED A MINIMUM OF SEVEN FEET (7') INTO THE PROPERTY, UNLESS OTHERWISE SHOWN, AND THE END OF THE STUB SHALL BE MARKED WITH A 2"X4"X12' STEEL OR WOODEN POST.
15. SERVICES SHALL BE CONNECTED A MINIMUM OF FIVE FEET (5') FROM THE OUTSIDE EDGE OF ANY MANHOLE ON THE MAIN LINE AND SHALL MAINTAIN TWO FEET (2') OF SEPARATION BETWEEN TAPS CENTER TO CENTER.
16. ALL CLEANOUTS SHALL BE THE SAME SIZE AS THE SERVICE LINE.
17. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT WHEN ANY SEPTIC TANK IS TO BE ABANDONED AND PAY ALL FEES NECESSARY TO OBTAIN A PERMIT.

CITY OF COLORADO SPRINGS CITY ENGINEERING NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT CITY OF COLORADO SPRINGS ENGINEERING DIVISION (THE CITY) STANDARD SPECIFICATIONS AND DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS (PRIOR TO DOING ANY WORK IN THE CITY RIGHT-OF-WAY (ROW)).
3. FOR ALL CITY PERMITS (TRAFFIC CONTROL, EXCAVATION, AND CONCRETE), CONTRACTORS SHALL APPLY FOR A PERMIT USING THE ONLINE PERMITING SYSTEM. ONCE THE CITY PERMIT IS APPROVED AND PAID, ALL SCHEDULED INSPECTIONS AND NOTIFICATIONS SHALL BE COMPLETED THE ONLINE PERMIT SYSTEM.
4. ALL CONCRETE AND ASPHALT MIX DESIGNS ARE APPROVED ANNUALLY FOR EACH SUPPLIER AND SHALL BE USED FOR ALL WORK IN THE CITY ROW (UNLESS APPROVED OTHERWISE).
5. ALL BACKFILL COMPACTION TESTS (IF NECESSARY) SHALL BE TAKEN AT 2' INTERVALS/LIFTS. THIS INFORMATION SHALL SUBSEQUENTLY BE ATTACHED/UPLOADED TO THE APPROPRIATE PERMIT.
6. CLSM (FLOW FILL) SHALL BE USED FOR THE BACKFILL UNDER STORM SEWER CROSSINGS UP TO THE SPRING LINE OF THE STORMSEWER, DAMAGE TO THE EXISTING STORMSEWER SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL STAMP THEIR COMPANY NAME AND CONSTRUCTION YEAR AT A MINIMUM EVERY 100-FEET OR FRACTION THEREOF ON CONCRETE SURFACES.
8. ASPHALT PATCHING SHALL BE DONE PER THE UTILITY TRENCH REPAIR DETAIL.
9. WHERE THE ROADWAYS ARE IDENTIFIED AS MORATORIUM ROADS:
   a. THE UTILITY TRENCH SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND TESTED AT 2' INTERVALS. THEN, CLSM (FLOW FILL) SHALL BE PLACED AT THE LAST 3-FEET OF THE ROADWAY PROFILE, THEN MATCH THE EXISTING ASPHALT PROFILE.
   b. ASPHALT PATCHING SEEMS SHALL BE INFARED REPAIRED.
   c. THE LIMITS OF RESTORATION FOR ALL PATCHING WILL BE DETERMINED IN THE FIELD BY THE ROW INSPECTOR.
   d. NEW ASPHALT SHALL NOT BE PLACED AGAINST FRESHLY POURED CONCRETE. FRESHLY PLACED CONCRETE SHALL BE A MINIMUM OF 5-DA YS OLD OR HAVE A COMPRESSIVE STRENGTH OF 3,200 PSI AS DEMONSTRATED BY FIELD CURE CYLINDERS PRIOR TO ASPHALT PLACEMENT.
   e. CONTACT THE CITY FORESTRY DIVISION, PRIOR TO STARTING WORK, IF IT IS NECESSARY TO DISTURB TREES OR ROOTS IN THE CITY ROW.
   f. IF ANY STRIPING HAS BEEN REMOVED OR DISTURBED DURING CONSTRUCTION, IT MUST BE REPLACED PRIOR TO GIVING A NOTICE OF COMPLETION.
   g. PLEASE CONTACT THE ROW MAIN NUMBER, 385.5977 FOR ANY QUESTIONS OR CONCERNS.

PROJECT SPECIFIC NOTES

1. ALL EXISTING UTILITIES WERE IDENTIFIED AND ARE SHOWN USING THE AMERICAN SOCIETY OF CIVIL ENGINEERING STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA (C1/ASCE 38-02) TO QUALITY LEVEL B (QL B) EXCEPT:
   a. ALL SANITARY SEWERS ARE QUALITY LEVEL C (QL C).
   b. ALL STORM SEWERS ARE QUALITY LEVEL C (QL C).
   c. EXPLORATORY TEST HOLES (POTHOLES) WERE PERFORMED AS SHOWN ON THE PLANS.
2. INSTALL SECONDARY VALVES ON PRIVATE MAINS AT THE PROPERTY LINES, IF SECONDARY VALVES ARE NOT EXISTING IN THE FIELD. INSTALL CURB STOPS ON ALL SERVICES.
3. WATER DIG ALERT: PLEASE CONTACT RICK RENTERIA ONE WEEK BEFORE EXCAVATION: 668-4734.
4. ELECTRIC DIG ALERT: PLEASE CONTACT RICK AT (719) 290-3795 AT LEAST THREE BUSINESS DAYS BEFORE EXCAVATION.
5. GAS DIG ALERT: PLEASE CALL 668-3520 AT LEAST THREE BUSINESS DAYS BEFORE EXCAVATION.
6. CONTRACTOR TO VERIFY UTILITY DEPTHS PRIOR TO CONSTRUCTION.

MATERIAL LIST

TOTAL	UOM	USED	MATERIAL DESCRIPTION
222	LF	(_____)	PIPE, PVC, SDR 26, SLIP JOINT, 8"
3	EA	(_____)	48" CONCRETE MANHOLE
34	LF	(_____)	12" STEEL ENCASEMENT

RETIRED IN GROUND OR JUNKED OUT MATERIAL LIST

	JUNKED OUT MATERIAL				
	(FIMS VALVE OR HYD #)	(SIZE)	(FOOTAGE)	(TYPE)	(QUANTITY)
PIPE					
PIPE					
VALVE					
HYDRANT					
CROSS					
REDUCER					
BENDS					
TEES					
	RETIRED IN GROUND MATERIAL				
	(FIMS VALVE OR HYD #)	(SIZE)	(FOOTAGE)	(TYPE)	(QUANTITY)
PIPE					
PIPE					
VALVE					
HYDRANT					
CROSS					
REDUCER					
BENDS					
TEES					

COLORADO LICENSED
JOHN DAVID STRANDBERG
38711
PROFESSIONAL ENGINEER
11/25/2025

APPROVED FOR CONSTRUCTION

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS		PARENT WO#
PROJECT MANAGER: DMZ		4193684
PROJECT DESIGNER: BR		PROJECT #
PROJECT SURVEYOR: AMD		2024-S1288
EXISTING PIPE INFORMATION		PRESSURE ZONE
PIPE SIZE	PIPE MATERIAL	N/A
8"	VCP	MAP BOOK
MAX. STATIC PRESSURE	YEAR	08041C0726G
N/A	1955	

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31ST STREET AND FONTANERO STREET ROUNDABOUT
PROJECT SANITARY LOWERING PLANS

REPLACE APPROX. 221 LF OF 8" VCP W/ 221 LF OF 8" PVC

S2 GENERAL NOTES

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 2 OF 6

DRAWING PATH:M:\TRN\20-100-239-16\2_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\SS\GENERAL NOTES.DWG

ABBREVIATIONS

ACT.	ACTUAL
Ⓐ	ANODE
APPROX	APPROXIMATE
ARV	AIR RELIEF VALVE
BFV	BUTTERFLY VALVE
BOP	BOTTOM OF PIPE
BOV	BLOWOFF ASSEMBLY AND VALVE
BSA	MINIMUM BEARING SURFACE AREA
C&G	CURB AND GUTTER
CB	CATCH BASIN
CF	CUBIC FEET
CIP	CAST IRON PIPE
CL, ℄	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CP	CONTROL POINT
CPLG	COUPLING
CR	CURB RETURN
CRA	CONCRETE REVERSE ANCHOR
CTRB	CONCRETE THRUST REACTION BLOCK
CY	CUBIC YARDS
D, °	DEGREE
Δ	DELTA
DEFL	DEFLECTION
DIA, Ø	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
E	EAST/EASTING
EA	EACH
ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EOP	EDGE OF PAVEMENT
EXIST.	EXISTING
FL	FLOW LINE
FLG	FLANGE
FO	FIBER OPTIC
FT	FEET
G	GAS
GR.BK., V.P.I	V.P.I. GRADE BREAK
GV	GATE VALVE
GPM	GALLONS PER MINUTE
HDC	HIGH DEFLECTION COUPLING
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	HYDRANT
I.D.	INNER DIAMETER
IN.	INCH
INS	INSULATE(D)(ING)
INV	INVERT

LB, lb, #	POUND
LEB	LARGE END BELL
LF	LINEAR FEET
LP	LIGHT POLE
MAX	MAXIMUM
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH/NORTHING
NO.	NUMBER
NP	NON-POTABLE WATER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTER DIAMETER
PC	POINT OF CURVATURE
PFAS	PER- AND POLYFLUOROALKYL SUBSTANCES
PH	POTHOLE
PP	POWER POLE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PUPS	12" OR SMALLER, USE PLAIN END BY PLAIN END, 30' LENGTH. 16" OR LARGER USE PLAIN END BY PLAIN END, 24" LENGTH
PVC	POLYVINYL CHLORIDE PIPE
PVT	PRIVATE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
ROW	RIGHT OF WAY
S	SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SS	SANITARY SEWER
STL	STEEL
STR	STRAIGHT
SVC	SERVICE
TBD	TO BE DETERMINED
TOP	TOP OF PIPE
TS	TEST STATION
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
UNK	UNKNOWN
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
W	WEST
WL	WATER LINE
YDS	YARDS

LEGEND

- EXISTING ROW/PROPERTY LINE
- EXISTING CURB LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS MAIN
- EXISTING WATER
- PROPOSED WATER
- EXISTING NON-POTABLE WATER
- EXISTING STORM DRAIN
- EXISTING SEWER
- PROPOSED SEWER
- EXISTING UNDER GROUND ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING FENCE
- VALVE (EXISTING)
- VALVE (PROPOSED)
- BLOWOFF (EXISTING)
- BLOWOFF (PROPOSED)
- PLUG (EXISTING)
- PLUG (PROPOSED)
- UTILITY EASEMENT
- PRESSURE DISTRICT BOUNDARY
- GUARDRAIL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING STREET LIGHT
- EXISTING ELECTRIC BOX
- EXISTING ELECTRIC VAULT
- EXISTING COMMUNICATION BOX
- EXISTING COMMUNICATION VAULT
- PROPOSED ANODE LOCATION
- WARNING - ELECTRIC CROSSING
- WARNING - GAS CROSSING
- WARNING - FIBER OPTIC CROSSING
- WARNING - SANITARY SEWER CROSSING
- WARNING - STORM CROSSING
- WARNING - WATER CROSSING
- WARNING - NON-POTABLE WATER CROSSING

SERVICES

RECONNECT THE FOLLOWING SANITARY SERVICE LINES:

729 N 31ST STREET - 4"

COLORADO LICENSED DAVID STRAND BERG 38711 PROFESSIONAL ENGINEER

11/25/2025

APPROVED FOR CONSTRUCTION

SCALE AS SHOWN

0 ½" 1"

GRAPHIC SCALE

THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS

NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION

CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-S1288

EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
8"	VCP	N/A
MAX. STATIC PRESSURE	YEAR	MAP BOOK
N/A	1955	08041C0726G

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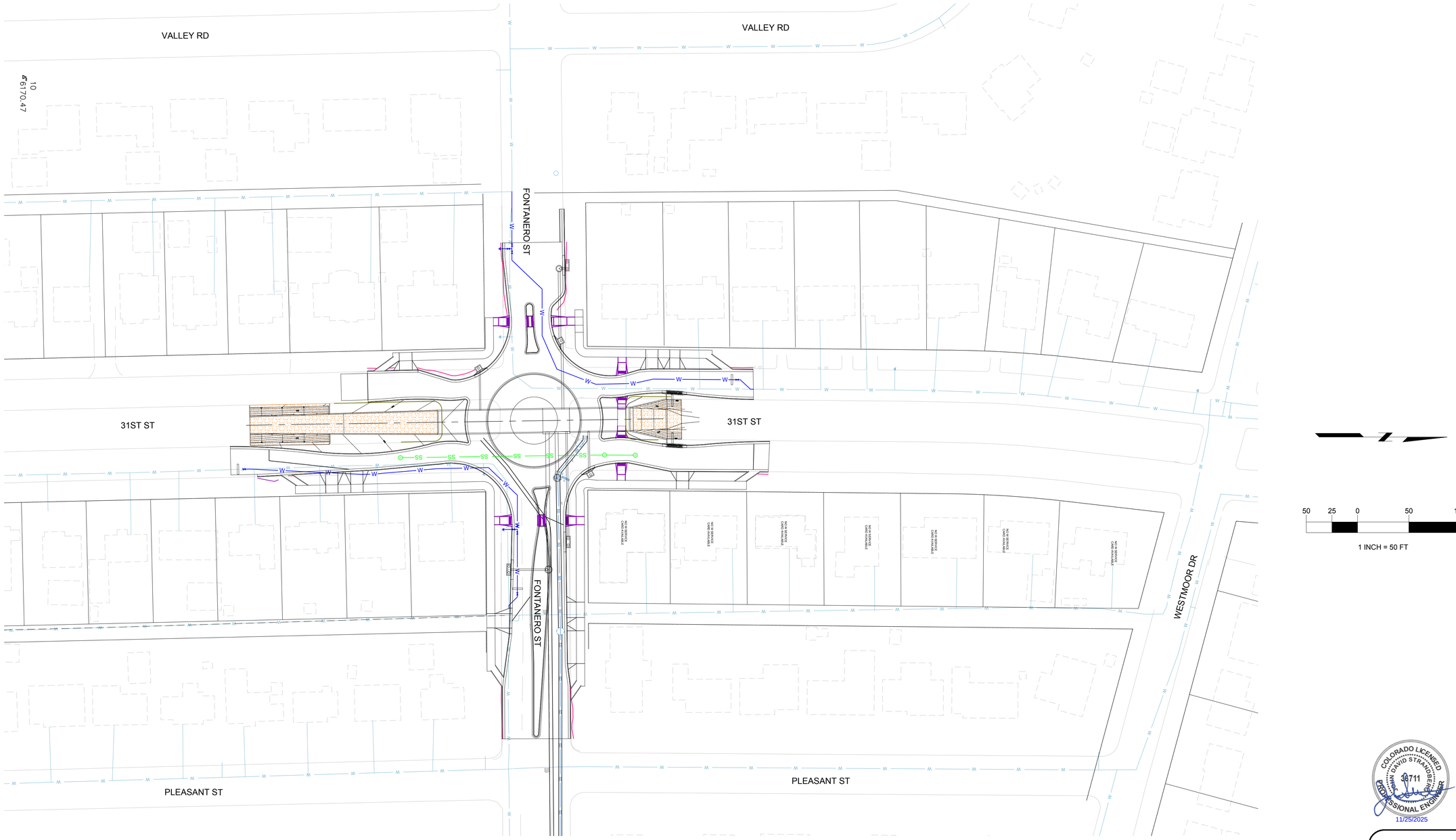
31ST STREET AND FONTANERO STREET ROUNDABOUT
PROJECT SANITARY LOWERING PLANS

REPLACE APPROX. 221 LF OF 8" VCP W/ 221 LF OF 8" PVC

S3 ABBREVIATIONS & LEGEND

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 3 OF 6

DRAWING PATH:M:\TRN\20-100-239-16\2_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\SS\31ST RA_OVERVIEW.DWG



COLORADO LICENSED
DAVID STRANDBERG
18711
PROFESSIONAL ENGINEER
11/25/2025

APPROVED FOR CONSTRUCTION

DRAWING PATH:M:\TRN\20-100-239-16\2_DISCIPLINES_SHEETS\6_SHEETS - UTILITIES\SS\31ST RA_OVERVIEW.DWG

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN

0 .5" 1"

GRAPHIC SCALE

THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
FIELD VERIFICATION BY:	DATE:
DRAWINGS CORRECTED BY:	DATE:

PROJECT TECHNICAL LEAD: JDS	PARENT WO#
PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-S1288

EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
8"	VCP	N/A
MAX. STATIC PRESSURE	YEAR	MAP BOOK
N/A	1955	08041C0726G

Colorado Springs Utilities
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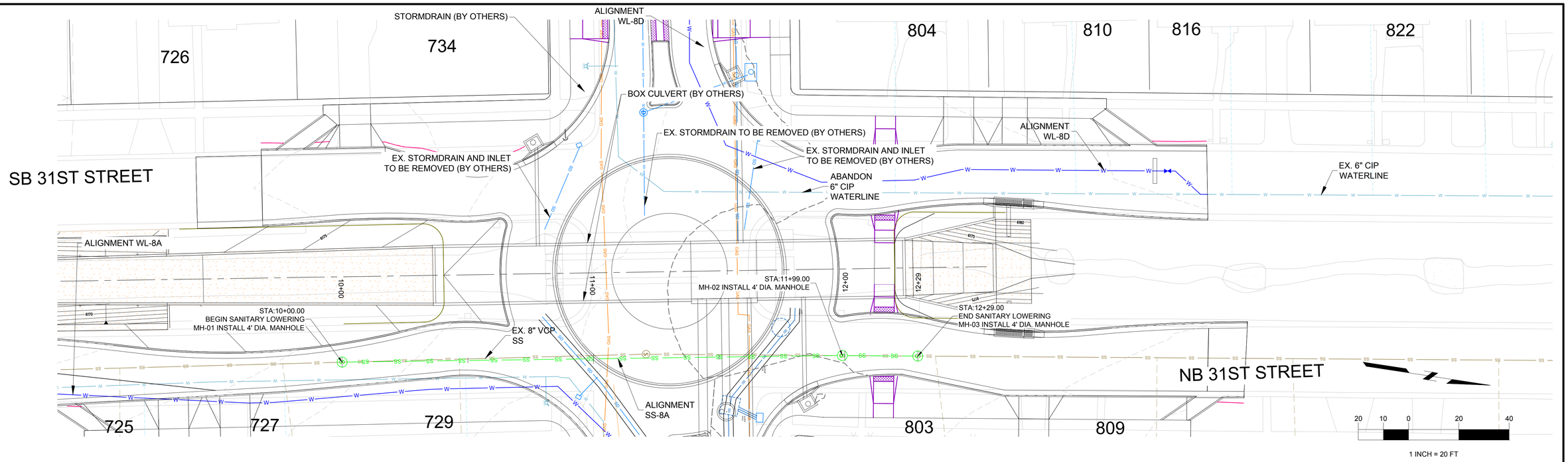
31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT SANITARY LOWERING PLANS

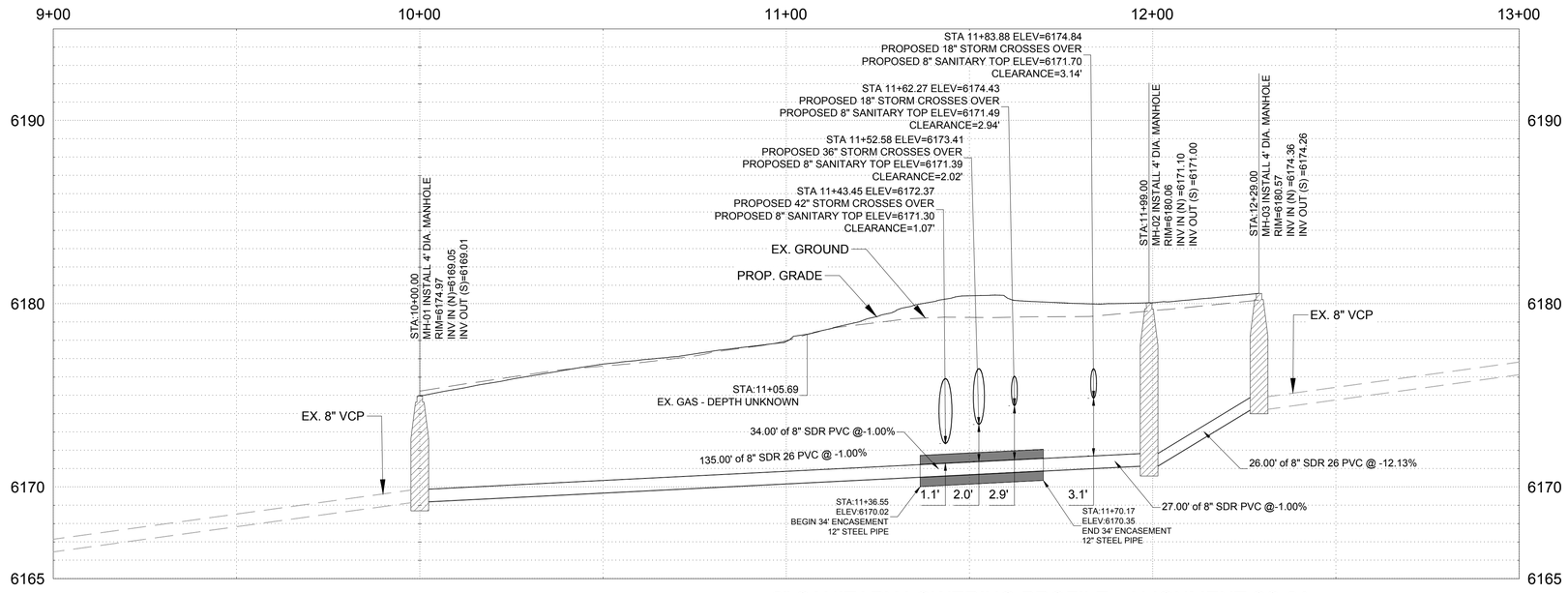
REPLACE APPROX. 221 LF OF 8" VCP W/ 221 LF OF 8" PVC

S4 SANITARY PROJECT OVERVIEW PLAN

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 4 OF 6

R26-T008MZ





8" SANITARY LOWERING PROFILE - ALIGNMENT SS-8A

COLORADO LICENSED JOHN DAVID STRANDBERG 38711 PROFESSIONAL ENGINEER
11/25/2025

DRAWING PATH:M:\TRN\20-100-239-162_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\SS31ST RA_WL_WEST.DWG

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN
0 1/2" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
INSPECTOR ACCEPTANCE BY:	DATE:
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PROJECT MANAGER: DMZ	4193684
PROJECT DESIGNER: BR	PROJECT #
PROJECT SURVEYOR: AMD	2024-S1288

EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
8"	VCP	N/A
MAX. STATIC PRESSURE	YEAR	MAP BOOK
N/A	1955	08041C0726G

Colorado Springs Utilities
It's how we're all connected

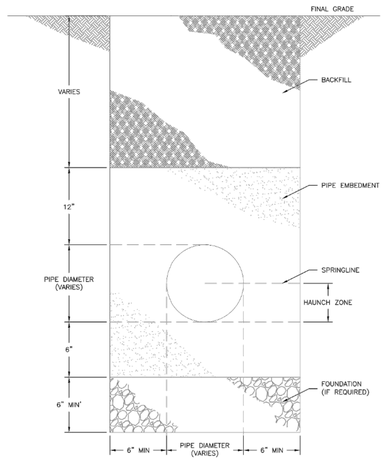
31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT SANITARY LOWERING PLANS

REPLACE APPROX. 221 LF OF 8" VCP W/ 221 LF OF 8" PVC

PLAN & PROFILE STA: 10+00 TO 12+29

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 5 OF 6

R26-T008MZ



NOTE:

1. TRENCH BACKFILL SHALL CONFORM TO THE SPECIFICATIONS OF THE AUTHORITY HAVING JURISDICTION AND ASTM D2321.

Colorado Springs Utilities — It's how we're all connected

TYPICAL TRENCH SECTION — C2-1 — DATED 5/2015

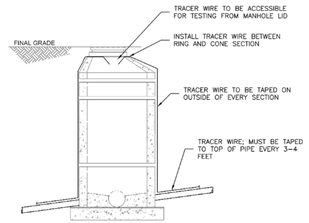
PIPE SIZE AND MATERIAL	ALLOWABLE DEFLECTION	PIPE LENGTH AND CORRESPONDING RADIUS								
		20'	18'	16'	14'	12'	10'	8'	6'	4'
4" - 12" DIP	4°00'	286'	258'	229'	200'	172'	143'	115'	100'	100'
14" - 16" DIP	3°12'	358'	322'	287'	251'	215'	179'	143'	107'	100'
18" - 36" DIP	2°24'	477'	430'	382'	334'	286'	239'	191'	143'	100'
4" - 36" SDR 35 PVC	3°00'	382'	344'	306'	267'	230'	191'	153'	115'	100'

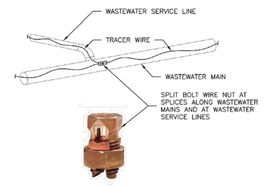
NOTES:

1. COLORADO SPRINGS UTILITIES USES A 1.25 SAFETY FACTOR FOR DIP SLIP JOINT DEFLECTION FROM THE MANUFACTURER'S ALLOWABLE DEFLECTION.
2. SDR 35 PVC SHALL NOT BE DEFLECTED WITHOUT THE USE OF FABRICATED 3° BENDS.
3. MINIMUM RADIUS FOR DIP AND SDR 35 PVC SHALL BE 100'.

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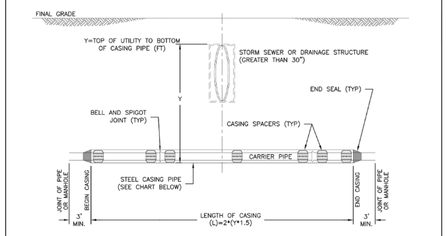
MINIMUM RADIUS FOR DIP AND PVC PIPE — C2-2 — DATED 5/2015





Colorado Springs Utilities — It's how we're all connected

TRACER WIRE ON PVC OR HDPE PIPE — C2-3 — DATED 5/2015



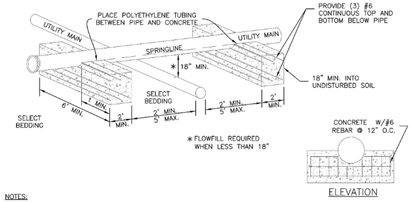
CARRIER PIPE SIZE (INCH)	MIN. CASING PIPE SIZE (INCH)	MIN. CASING WALL THICKNESS (INCH)
8	12	0.250
12	16	0.312
18	22	0.375
20 & 21	24	0.500
24	30	0.500
30	36	0.625
36	42	0.625

NOTES:

1. THE DESIGN ENGINEER SHALL VERIFY THAT THE SIZE OF THE CASING PIPE WILL MEET THE NEEDS OF THE PROJECT.
2. CASING WALL THICKNESS BASED ON E80 LOADING.
3. CASING SHALL BE STEEL PIPE WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI.
4. SEE DETAIL DRAWING C2-5 FOR CASING SPACER DETAILS.
5. WHERE THE WASTEWATER MAIN CROSSES ABOVE A WATER MAIN, SEE SECTION 2.5.F.3.
6. WHERE THE WASTEWATER MAIN CROSSES UNDER A RAILWAY OR MAJOR ROADWAY, THE LENGTH OF CASING AND ITS PROPERTIES SHALL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.

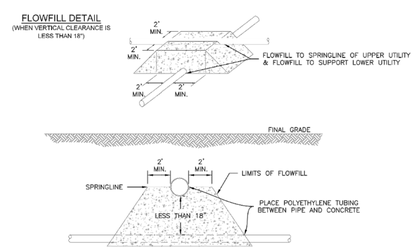
Colorado Springs Utilities — It's how we're all connected

TYPICAL STEEL CASING INSTALLATION — C2-4 — DATED 5/2015



NOTES:

1. NO JOINTS OF UTILITY MAIN SHALL BE ALLOWED BETWEEN CONCRETE BRIDGING BLOCKS.
2. CONCRETE AND REINFORCEMENT MATERIALS SHALL BE IN ACCORDANCE WITH CHAPTER 4.

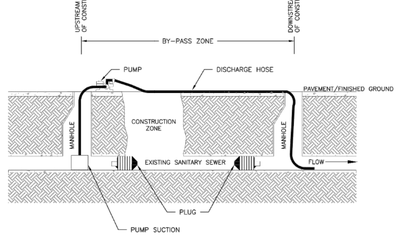


NOTES:

1. ALL FLOWABLE-FILL SHALL BE IN CONFORMANCE WITH CHAPTER 4.
2. SEE SECTION 2.5.F.3 FOR UTILITY CROSSING REQUIREMENTS.

Colorado Springs Utilities — It's how we're all connected

PIPE BRIDGING DETAIL W/CONCRETE CRADLES — C2-7 — DATED 5/2015

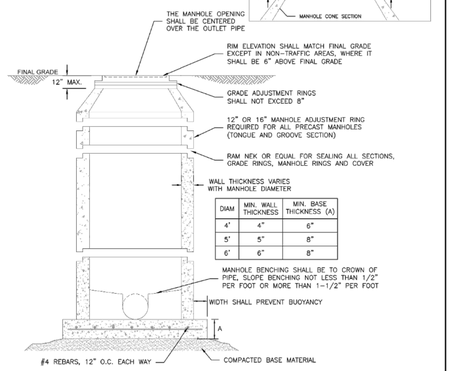


NOTES:

1. EXAMPLE CAN VARY DUE TO SITE CONDITIONS AND COLORADO SPRINGS UTILITIES INSPECTORS' DIRECTIONS.
2. IF A BY-PASS SYSTEM PLAN OR FLOW MANAGEMENT PLAN IS NEEDED, IT SHALL BE REVIEWED AND APPROVED BY COLORADO SPRINGS UTILITIES, PRIOR TO DESIGN APPROVAL. THE CONTRACTOR SHALL HAVE 100% REDUNDANT PUMPING CAPACITY WITH 24 HOUR SUPERVISION DURING ALL PUMPING OPERATIONS.
3. SEE CHAPTER 5 FOR ADDITIONAL INFORMATION ON BYPASS SYSTEM REQUIREMENTS

Colorado Springs Utilities — It's how we're all connected

SCHEMATIC OF TYPICAL BY-PASS SYSTEM — C2-12 — DATED 5/2015



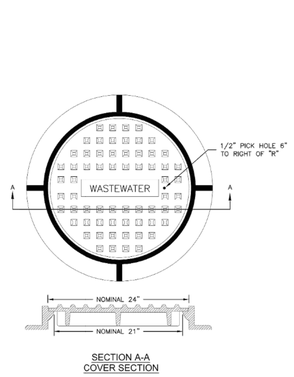
DIAM	MIN. WALL THICKNESS	MIN. BASE THICKNESS (A)
4'	4"	6"
5'	5"	8"
6'	6"	8"

NOTES:

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI @ 28 DAYS AND DESIGNED FOR HS-20 LOADING CONDITIONS.
2. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.
3. FOR CAST IN PLACE MANHOLES, DO NOT DROP CONCRETE A DISTANCE OF MORE THAN 5' UNLESS APPROVED BY COLORADO SPRINGS UTILITIES.
4. 3/4" CRUSHED ROCK REQUIRED UNDER BASE TO A DEPTH OF 6" UP TO SPRINGLINE OF PIPE, 2'-3' RADIUS AROUND BASE.
5. ALL STEPS SHALL BE REMOVED FOLLOWING CONSTRUCTION.
6. STRUCTURAL REINFORCEMENT SHALL COMPLY TO ASTM C-478. ASTM C-478 SHALL BE STAMPED ON THE OUTSIDE OF THE MANHOLE.

Colorado Springs Utilities — It's how we're all connected

STANDARD CONCRETE MANHOLE — C3-1 — DATED 5/2015



SECTION A-A
COVER SECTION

NOTES:

1. SEE CHAPTER 4 FOR ADDITIONAL INFORMATION AND SPECIFIC DIMENSIONS.

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STANDARD MANHOLE RING AND COVER IN TRAFFIC AREAS — C3-9 — DATED 5/2015

COLORADO LICENSED PROFESSIONAL ENGINEER — JOHN DAVID STRAUSBAUGH — 38711 — 11/25/2025

APPROVED FOR CONSTRUCTION

DRAWING PATH:H:\TRN\20-100-239-16\2_DISCIPLINES_SHEETS\8_SHEETS - UTILITIES\SSIFIRE HYDRANT PLAN - 2.DWG

COLORADO 811 — KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

SCALE AS SHOWN
0 ½" 1"
GRAPHIC SCALE
THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)

REVISIONS				
NO.	DESCRIPTION	BY	DATE	APPR
1				
2				
3				

AS-BUILT INFORMATION	
CONTRACTOR:	DATE:
WORK STAKED BY:	DATE:
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PROJECT TECHNICAL LEAD: JDS		PARENT WO#
PROJECT MANAGER: DMZ		4193684
PROJECT DESIGNER: BR		PROJECT #
PROJECT SURVEYOR: AMD		2024-S1288
EXISTING PIPE INFORMATION		
PIPE SIZE	PIPE MATERIAL	PRESSURE ZONE
8"	VCP	N/A
MAX. STATIC PRESSURE	YEAR	MAP BOOK
N/A	1955	08041C0726G

Colorado Springs Utilities — It's how we're all connected

31ST STREET AND FONTANERO STREET ROUNDABOUT PROJECT SANITARY LOWERING PLANS

REPLACE APPROX. 221 LF OF 8" VCP W/ 221 LF OF 8" PVC

S6 DETAILS

WATER SERVICE LINE INVENTORY ☐ | SCALE H: V: | SHEET 6 OF 6

POINT #	PROJECT NORTING	PROJECT EASTING	ELEVATION	DESCRIPTION	
2	1374800.29	3179586.72	6179.57	1" COPPER MARKER WITH PUNCH MARK AND STAMPED CP 2	
9	1374931.69	3180480.49	6200.78	CP 9 MAG NAIL AT END WHITE STRIPE	
210	1374887.40	3179932.23	6178.40	CP 210 1IN BRASS PLUG	
211	1374814.46	3179923.17	6177.13	CP 211 X ON INLET	
212	1374249.76	3179965.08	6162.91	CP 212 MAG IN CONC 1FT W TBC	
150	1369238.37	3180400.63	6073.67	FIMS F150	
The benchmark for this project is FIMS F150 having a published elevation of 6073.67 US Survey Feet					
The coordinates for this project are State Plane Colorado Central Zone. The project coordinates are shifted from the published value for F150. To relate this project to FIMS using FIMS F150, subtract 0.23' from the Project Northing and 0.52' from the Project Easting.					

GENERAL NOTES

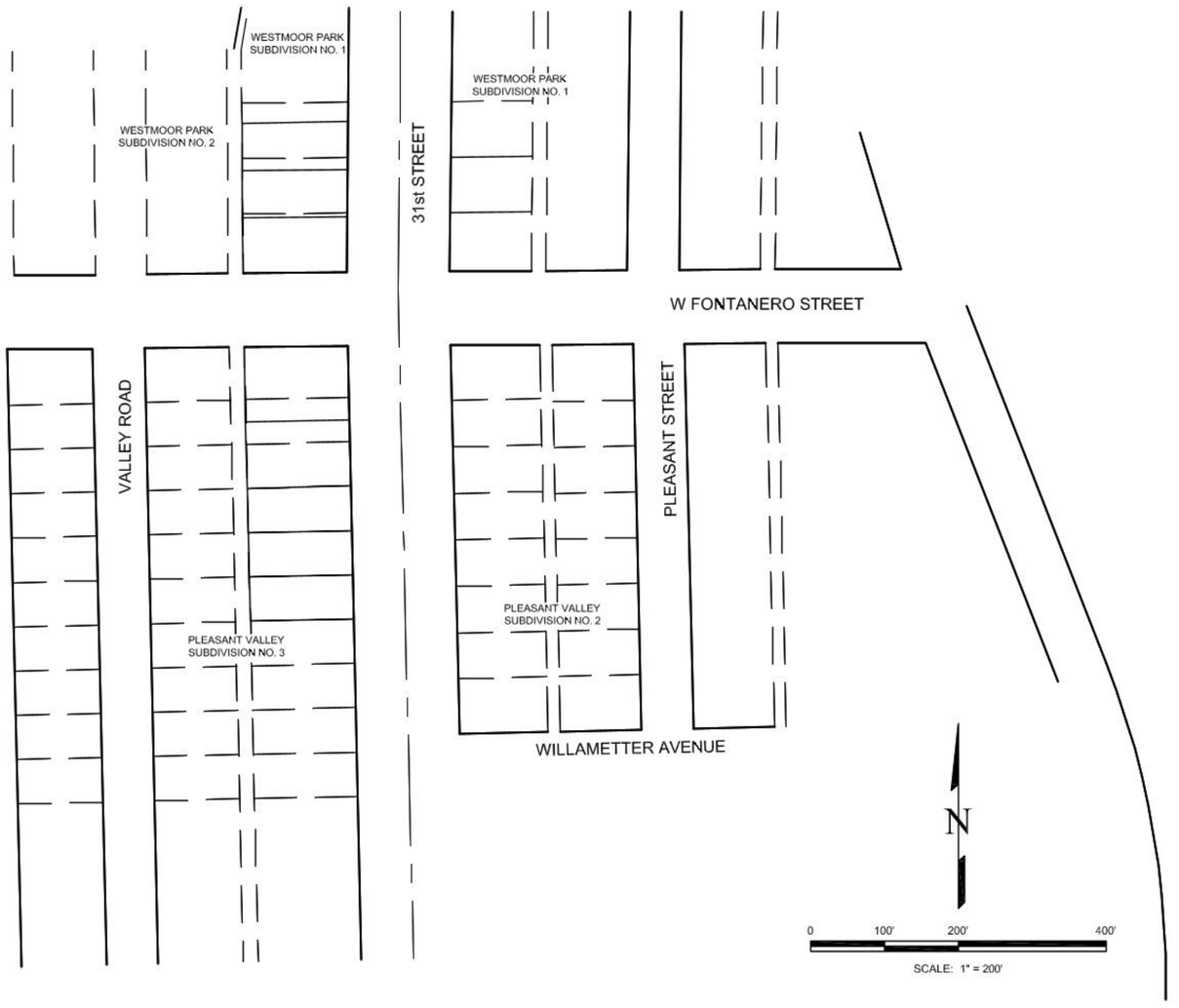
1. NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU DISCOVER SUCH DEFECT. IN NO EVENT MAY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE CERTIFICATION SHOWN HEREON.
2. PROJECT BENCHMARK: CONTROL POINT NO. F150, ELEVATION = 6073.67 FT. NGVD 1929 AND THE 1960 SUPPLEMENTARY ADJUSTMENT. FIMS MONUMENT 150 IS A BERNTSEN TIP SECURITY ROD WITH 3-1/2" DIAMETER ALUMINUM CAP IN A ROAD BOX LOCATED AT THE SOUTH CORNER OF THE INTERSECTION OF U.S. HIGHWAY24 AND 26TH STREET. A LIGHT POLE IS 28.4 FEET TO THE EAST AND A UTILITY POLE IS 33.53 FEET TOT THE SOUTH. PER FIMS NETWORK MONUMENT RECORD.
3. COORDINATE DATUM: PROJECT COORDINATES ARE COLORADO STATE PLANE CENTRAL ZONE . PROJECT COORDINATES ARE SHIFTED FROM THE PUBLISHED VALUE OF COLORADO FIMS MONUMENT F150 .TO RELATED THIS PROJECT TO FIMS USING FIMS 150, SUBTRACT 0.23' FROM THE PROJECT NORTHING AND 0.52' FROM THE PROJECT EASTING.
4. THIS IS NOT A MONUMENTED LAND SURVEY, AND IS ONLY TO BE USED FOR PROJECT CONTROL.

SURVEYOR'S CERTIFICATE

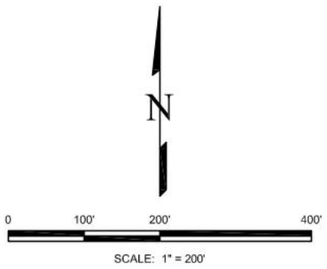
I, JONATHAN W. TESSIN, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO. ON THE BASIS OF MY KNOWLEDGE , INFORMATION AND BELIEF, DO HEREBY CERTIFY THAT IN SEPTEMBER 2024, A CONTROL MAP WAS MADE UNDER MY SUPERVISION, IN ACCORDANCE WITH THE STANDARD OF CARE FOR THE STATE OF COLORADO. THIS CONTROL MAP, AND THE INFORMATION SHOWN HEREON ARE NOT A GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

COLORADO REGISTERED PROFESSIONAL LAND SURVEYOR
JONATHAN W TESSIN
8/14/2025
33196

JONATHAN W. TESSIN
PROFESSIONAL LAND SURVEYOR COLORADO P.L.S. NO. 33196
FOR AND ON BEHALF OF EDWARD-JAMES SURVEYING, INC.



Print Date: 6-25-25		Sheet Revisions			WILSON & COMPANY		CONTROL MAP 31ST AND FONTANERO		Project No./Code
File Name:		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:			Project #____-___
Horiz. Scale: 1" = 200'	Vert. Scale:					Revised:	Designer: JWT	Structure Numbers	Bid #__-__
Unit Information	Unit Leader					Void:	Detailer: XXX		Sheet Number 1
							Sheet Subset: XXXXXX	Subset Sheets: 1 of 2	





TABULATION OF PROPERY MARKERS FOUND			
PT NUM	NORTHING	EASTING	DESCRIPTION
31910	1374901.39	3180002.91	FNDMON 4RBR NOCAP 0.3BG
31911	1374896.74	3179522.80	FNDMON 3RBR NOCAP 0.2BG
31912	1374799.38	3179724.49	FNDMON .75IN IP 0.5BG
31913	1374491.15	3179871.39	FNDMON .75IN IP FLUSH
31917	1375412.35	3179877.77	FNDMON 3RBR NOCAP 0.6BG
31918	1375206.22	3180005.54	FNDMON 3RBR NOCAP 0.3BG
31919	1375056.43	3180003.93	FNDMON 3RBR NOCAP 0.3BG
31920	1374700.91	3179866.57	FNDMON .75IN IP 0.4BG
31921	1374551.06	3179869.91	FNDMON .5IN IP 0.2BG
31924	1374663.83	3180007.33	FNDMON .75IP 0.4BG
31925	1374804.18	3180510.72	FNDMON .75IP FLUSH
31926	1374903.54	3180442.54	FNDMON 4RBR YPC ILL 0.2BG
31927	1374902.66	3180242.58	FNDMON 3RBR NOCAP 0.5BG
31929	1374350.56	3180014.34	FNDMON 1IN IP FLUSH
31958	1374978.85	3179702.14	FNDMON 3RBR NOCAP 0.7BG
31959	1374898.77	3179702.66	FNDMON 3RBR NOCAP 0.7BG
31978	1374697.81	3179726.74	FNDMON 1IN IP 0.3BG
31979	1374607.90	3179728.71	FNDMON 0.75IN IP 1.0BG
31981	1374600.82	3180008.61	FNDMON 0.75IN IP 0.3BG
31982	1374726.89	3180005.75	FNDMON 0.75IN IP 0.6BG
32012	1374666.80	3180127.27	FNDMON 3RBR NOCAP FLUSH
32038	1374729.67	3180125.80	FNDMON 3RBR NOCAP 0.1BG

THIS EXHIBIT IS NOT A MONUNENTED LAND SURVEY AND IS ONLY INTENDED TO SHOW FOUND MONUMENTS FOR THIS PROJECT.

COLORADO REGISTERED
JONATHAN W TESSIN
8/14/2025
33196
PROFESSIONAL LAND SURVEYOR

JONATHAN W. TESSIN
PROFESSIONAL LAND SURVEYOR COLORADO P.L.S. NO. 33196
FOR AND ON BEHALF OF EDWARD-JAMES SURVEYING, INC.

Print Date: 6-25-2025
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Horiz. Scale: 1 " = 200' Vert. Scale:
Unit Information Unit Leader

Sheet Revisions

Date:	Comments	Init.

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Colorado Springs, CO 80919
Phone: 719-520-5800
FAX: 719-520-0108

No Revisions:
Revised:
Void:

OWNERSHIP MAP
31ST AND FONTANERO

Designer: JWT
Detailer: XXX
Sheet Subset: XXXXXX
Structure Numbers:
Subset Sheets: 2 of 2

Project No./Code
Project #____-___
Bid #__-__
Sheet Number 2

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
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(or 1-800-922-1987)
UTILITY NOTIFICATION CENTER OF COLORADO (UNCC)
www.uncc.org

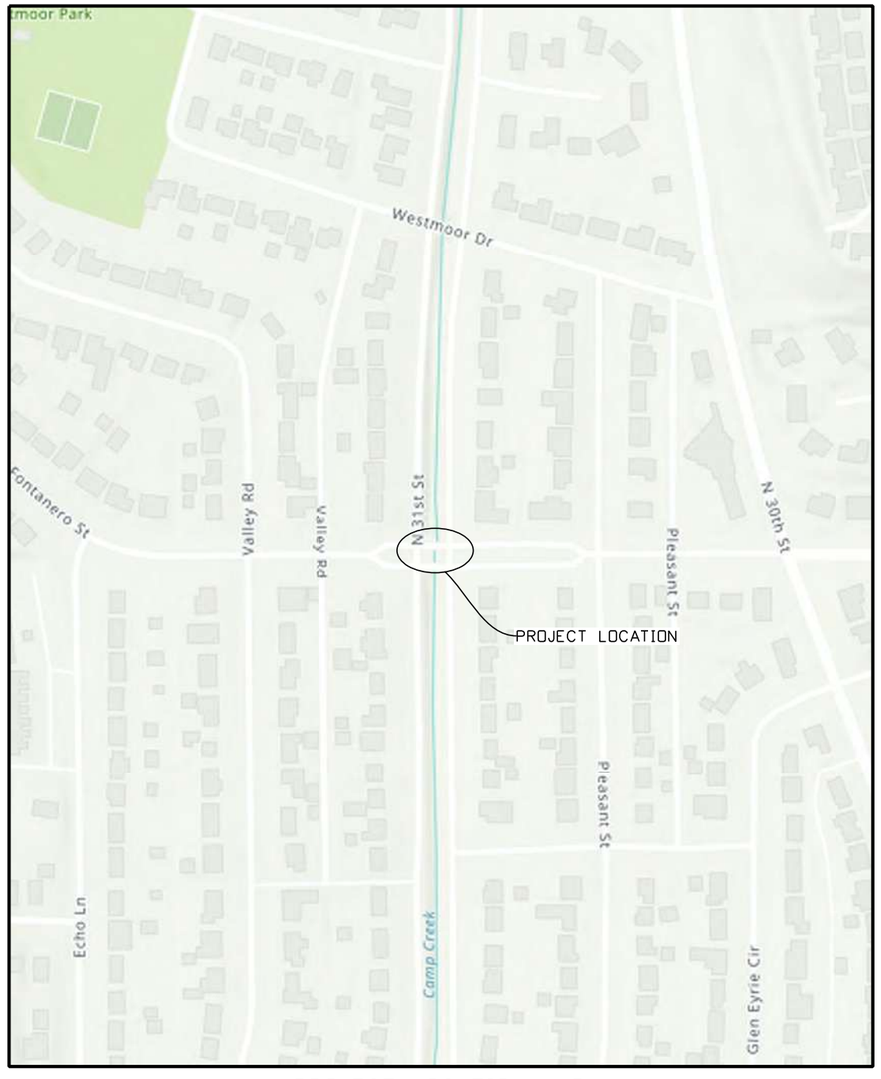
CITY OF COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO

31ST STREET / FONTANERO STREET

PROJECT NO. STM-REV25-0629

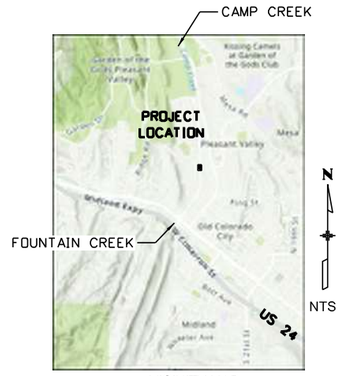
GRADING AND EROSION CONTROL PLANS

NOVEMBER 2025



PROJECT LOCATION MAP

0' 200' 400' 800'



VICINITY MAP

SHEET NO.	SHEET NAME
1	TITLE SHEET
2-5	GRADING POINT TABLE ROADWAY
6-9	GRADING PLAN ROADWAY
10-11	GRADING POINT TABLE SIDEWALK
12-14	GRADING PLAN SIDEWALK
15-16	GRADING & EROSION CONTROL GENERAL NOTES
17	GRADING & EROSION CONTROL TABULATIONS
18-20	EROSION CONTROL INITIAL PHASE
21-23	EROSION CONTROL INTERIM PHASE
24-26	EROSION CONTROL FINAL PHASE
27-34	EROSION CONTROL DETAILS
35	FEMA MAP

COLORADO LICENSED ERIC THOMAS POLING 60084 PROFESSIONAL ENGINEER
01/08/26

ENGINEER'S STATEMENT

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. IF SUCH WORK IS PERFORMED IN ACCORDANCE WITH THE GRADING AND EROSION CONTROL PLAN, THE WORK WILL NOT BECOME A HAZARD TO LIFE AND LIMB, ENDANGER PROPERTY, OR ADVERSELY AFFECT THE SAFETY, USE, OR STABILITY OF A PUBLIC WAY, DRAINAGE CHANNEL, OR OTHER PROPERTY.

PRINTED NAME: Eric Poling DATE: 01/08/2026

PHONE NUMBER: (719)-302-6744

SEAL

CITY PROJECT MANAGER'S STATEMENT

I HEREBY CERTIFY THAT THE DRAINAGE, GRADING, AND EROSION CONTROL FOR I-25/NEVADA/TEJON IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN PRESENTED IN THIS GRADING AND EROSION CONTROL PLAN. I FURTHER UNDERSTAND THAT FIELD CHANGES MUST BE REVIEWED BY THE SWENT REVIEW ENGINEER TO ENSURE CONFORMANCE WITH THE ORIGINAL DESIGN INTENT. I AM EMPLOYED BY AND PERFORM ENGINEERING SERVICES SOLELY FOR THE CITY OF COLORADO SPRINGS, AND THEREFORE AM EXEMPT FROM COLORADO REVISED STATUTE TITLE 12, ARTICLE 25, PART 1 ACCORDING TO §12-25-103(1), C.R.S.

NAME OF CITY PROJECT MANAGER: David G Walker, PE

SIGNATURE: DG Walker DATE: 01/08/26

CITY OF COLORADO SPRINGS GRADING AND EROSION CONTROL REVIEW

THIS GRADING AND EROSION CONTROL PLAN IS FILED IN ACCORDANCE WITH CITY CODE.THIS PLAN IS REVIEWED IN ACCORDANCE WITH THE STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.

DATE: 1/13/26

FOR THE SWENT MANAGER: Doug Money

NOTES:

AS CONSTRUCTED INFORMATION

PROJECT ENGINEER: _____

PROJECT STARTED: _____

PROJECT COMPLETED: _____

AS CONSTRUCTED PLANS: _____

APPROVED: _____

TITLE: _____

DATE: _____

Print Date: 11/6/2025
File Name: 23916GEC_01-01_TitleSheet.dgn
Horiz. Scale: 1:1 Vert. Scale:
Unit Information Unit Leader

Sheet Revisions

Date:	Comments	Init.

COLORADO SPRINGS OLYMPIC CITY USA

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FAX: 719-520-0108

No Revisions:
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31ST ST & FONTANERO ST
GRADING & EROSION CONTROL
TITLE SHEET

Designer: ETP
Detailer: TAH
Sheet Subset: GEC-TITLE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 1

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number 1

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Know what's below. Call before you dig.

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
1	1374877.81	3179760.59	16+00.65	27.57' LT	PROPOSED EDGE OF PAVEMENT	6179.30'
2	1374878.19	3179788.45	16+28.52	27.96' LT	PROPOSED EDGE OF PAVEMENT	6178.98'
3	1374878.39	3179803.05	16+43.11	28.16' LT	PROPOSED EDGE OF PAVEMENT	6178.95'
4	1374866.12	3179823.06	16+63.12	15.88' LT	PROPOSED EDGE OF PAVEMENT	6179.40'
5	1374865.17	3179826.30	16+66.36	14.94' LT	PROPOSED EDGE OF PAVEMENT	6179.33'
6	1374864.79	3179832.30	16+72.37	14.56' LT	PROPOSED EDGE OF PAVEMENT	6179.20'
7	1374884.44	3179877.52	17+17.58	34.21' LT	PROPOSED EDGE OF PAVEMENT	6178.62'
8	1374888.65	3179881.00	17+21.06	38.41' LT	PROPOSED EDGE OF PAVEMENT	6178.81'
9	1374897.71	3179886.65	17+26.71	47.48' LT	PROPOSED EDGE OF PAVEMENT	6179.12'
10	1374945.83	3179889.44	36+52.89	45.19' LT	PROPOSED EDGE OF PAVEMENT	6180.44'
11	1374959.18	3179886.78	36+66.24	47.85' LT	PROPOSED EDGE OF PAVEMENT	6180.72'
12	1374972.42	3179886.44	36+79.48	48.19' LT	PROPOSED EDGE OF PAVEMENT	6180.96'
13	1374978.08	3179886.47	36+85.13	48.16' LT	PROPOSED EDGE OF PAVEMENT	6181.05'
14	1374994.84	3179886.68	37+01.90	47.96' LT	PROPOSED EDGE OF PAVEMENT	6181.40'
15	1374998.95	3179886.58	37+06.01	48.06' LT	PROPOSED EDGE OF PAVEMENT	6181.48'
16	1375023.20	3179886.70	37+30.25	47.93' LT	PROPOSED EDGE OF PAVEMENT	6181.98'
17	1375026.79	3179886.72	37+33.85	47.91' LT	PROPOSED EDGE OF PAVEMENT	6182.05'
18	1375040.18	3179886.79	37+47.23	47.85' LT	PROPOSED EDGE OF PAVEMENT	6181.73'
19	1375063.98	3179886.91	37+71.03	47.91' LT	PROPOSED EDGE OF PAVEMENT	6182.30'
20	1375064.30	3179907.98	37+71.36	26.66' LT	PROPOSED EDGE OF PAVEMENT	6182.17'
21	1375064.36	3179911.83	37+71.42	22.74' LT	PROPOSED EDGE OF PAVEMENT	6181.85'
22	1375060.69	3179911.75	37+67.75	22.83' LT	PROPOSED EDGE OF PAVEMENT	6181.78'
23	1375039.29	3179910.82	37+46.35	23.82' LT	PROPOSED EDGE OF PAVEMENT	6181.38'
24	1375022.61	3179909.56	37+29.67	25.08' LT	PROPOSED EDGE OF PAVEMENT	6181.23'
25	1374996.15	3179906.65	37+03.21	27.98' LT	PROPOSED EDGE OF PAVEMENT	6180.84'
26	1374950.67	3179907.00	36+57.73	27.63' LT	PROPOSED EDGE OF PAVEMENT	6180.51'
27	1374945.40	3179907.72	36+52.46	26.92' LT	PROPOSED EDGE OF PAVEMENT	6180.47'
28	1374926.84	3179910.08	36+33.89	24.56' LT	PROPOSED EDGE OF PAVEMENT	6180.25'
29	1374917.81	3179909.79	36+24.86	24.85' LT	PROPOSED EDGE OF PAVEMENT	6180.21'
30	1374913.18	3179912.02	17+52.08	62.94' LT	PROPOSED EDGE OF PAVEMENT	6180.20'
31	1374912.56	3179916.19	17+56.25	62.33' LT	PROPOSED EDGE OF PAVEMENT	6180.24'
32	1374915.20	3179932.57	17+72.64	64.97' LT	PROPOSED EDGE OF PAVEMENT	6180.49'
33	1374914.48	3179944.53	17+84.59	64.24' LT	PROPOSED EDGE OF PAVEMENT	6180.41'
34	1374913.68	3179948.75	17+88.81	63.45' LT	PROPOSED EDGE OF PAVEMENT	6180.37'

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
35	1374918.80	3179954.83	36+25.86	20.20' RT	PROPOSED EDGE OF PAVEMENT	6180.30'
36	1374939.71	3179953.56	36+46.76	18.93' RT	PROPOSED EDGE OF PAVEMENT	6180.51'
37	1374961.76	3179957.53	36+68.82	22.89' RT	PROPOSED EDGE OF PAVEMENT	6180.77'
38	1375006.10	3179960.84	37+13.15	26.21' RT	PROPOSED EDGE OF PAVEMENT	6181.16'
39	1375029.36	3179959.06	37+36.42	24.09' RT	PROPOSED EDGE OF PAVEMENT	6181.50'
40	1375064.73	3179957.37	37+71.79	22.73' RT	PROPOSED EDGE OF PAVEMENT	6182.08'
41	1375065.57	3179957.35	37+72.65	21.76' RT	PROPOSED EDGE OF PAVEMENT	6182.01'
42	1375076.50	3179957.21	37+83.55	22.80' RT	PROPOSED EDGE OF PAVEMENT	6182.23'
43	1375080.08	3179957.16	37+87.17	21.85' RT	PROPOSED EDGE OF PAVEMENT	6182.32'
44	1375079.44	3179970.25	37+86.50	35.61' RT	PROPOSED EDGE OF PAVEMENT	6183.65'
45	1375078.84	3179982.44	37+85.90	47.81' RT	PROPOSED EDGE OF PAVEMENT	6183.68'
46	1375064.14	3179982.37	37+71.19	47.73' RT	PROPOSED EDGE OF PAVEMENT	6183.30'
47	1375061.84	3179982.35	37+68.89	47.72' RT	PROPOSED EDGE OF PAVEMENT	6183.25'
48	1375003.85	3179982.05	37+10.90	47.42' RT	PROPOSED EDGE OF PAVEMENT	6181.95'
49	1374987.16	3179981.96	36+94.21	47.33' RT	PROPOSED EDGE OF PAVEMENT	6181.58'
50	1374983.74	3179981.95	36+90.80	47.31' RT	PROPOSED EDGE OF PAVEMENT	6181.49'
51	1374943.67	3179973.77	36+50.72	39.13' RT	PROPOSED EDGE OF PAVEMENT	6180.44'
52	1374942.49	3179973.62	36+49.55	38.98' RT	PROPOSED EDGE OF PAVEMENT	6180.41'
53	1374940.86	3179973.59	36+47.91	38.95' RT	PROPOSED EDGE OF PAVEMENT	6180.38'
54	1374925.53	3179974.52	36+32.59	39.88' RT	PROPOSED EDGE OF PAVEMENT	6180.05'
55	1374913.07	3179977.06	18+17.12	62.84' LT	PROPOSED EDGE OF PAVEMENT	6179.81'
56	1374904.81	3179979.96	18+20.02	54.58' LT	PROPOSED EDGE OF PAVEMENT	6179.58'
57	1374901.39	3179981.77	18+21.83	51.16' LT	PROPOSED EDGE OF PAVEMENT	6179.50'
58	1374896.56	3179985.15	18+25.21	46.32' LT	PROPOSED EDGE OF PAVEMENT	6179.54'
59	1374886.67	3179997.09	18+37.15	36.44' LT	PROPOSED EDGE OF PAVEMENT	6179.72'
60	1374880.80	3180012.23	18+52.29	30.57' LT	PROPOSED EDGE OF PAVEMENT	6180.21'
61	1374878.93	3180028.14	18+68.20	28.70' LT	PROPOSED EDGE OF PAVEMENT	6180.70'
62	1374879.03	3180036.29	18+76.35	28.80' LT	PROPOSED EDGE OF PAVEMENT	6181.02'
63	1374879.64	3180087.69	19+27.75	29.41' LT	PROPOSED EDGE OF PAVEMENT	6183.07'
64	1374879.90	3180109.04	19+49.10	29.66' LT	PROPOSED EDGE OF PAVEMENT	6183.96'
65	1374880.03	3180119.89	19+59.95	29.79' LT	PROPOSED EDGE OF PAVEMENT	6184.44'
66	1374880.55	3180163.57	20+03.63	30.31' LT	PROPOSED EDGE OF PAVEMENT	6186.22'
67	1374880.64	3180171.70	20+11.76	30.41' LT	PROPOSED EDGE OF PAVEMENT	6186.52'
68	1374881.07	3180174.94	20+15.00	30.83' LT	PROPOSED EDGE OF PAVEMENT	6186.63'

Print Date: 11/6/2025
File Name: 23916GEC_01-02_Pn.dgn
Horiz. Scale: 1:1 Vert. Scale:
Unit Information Unit Leader

Sheet Revisions

Date:	Comments	Init.

COLORADO SPRINGS
OLYMPIC CITY USA

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No Revisions:
Revised:
Void:

31ST ST & FONTANERO ST
GRADING POINT TABLE
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 2

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Know what's below. Call before you dig.

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
69	1374881.76	3180180.24	20+20.30	31.53' LT	PROPOSED EDGE OF PAVEMENT	6186.83'
70	1374883.50	3180193.48	20+33.54	33.26' LT	PROPOSED EDGE OF PAVEMENT	6187.34'
71	1374883.50	3180194.85	20+34.91	33.27' LT	PROPOSED EDGE OF PAVEMENT	6187.40'
72	1374883.56	3180204.27	20+44.33	33.33' LT	PROPOSED EDGE OF PAVEMENT	6187.79'
73	1374883.72	3180231.28	20+71.34	33.49' LT	PROPOSED EDGE OF PAVEMENT	6188.98'
74	1374883.80	3180244.67	20+84.74	33.57' LT	PROPOSED EDGE OF PAVEMENT	6189.55'
75	1374821.80	3180244.96	20+85.02	28.43' RT	PROPOSED EDGE OF PAVEMENT	6188.39'
76	1374821.78	3180239.34	20+79.40	28.46' RT	PROPOSED EDGE OF PAVEMENT	6188.14'
77	1374821.73	3180228.76	20+68.82	28.50' RT	PROPOSED EDGE OF PAVEMENT	6187.68'
78	1374821.72	3180227.29	20+67.35	28.51' RT	PROPOSED EDGE OF PAVEMENT	6187.62'
79	1374821.57	3180194.57	20+34.63	28.66' RT	PROPOSED EDGE OF PAVEMENT	6186.29'
80	1374824.79	3180170.65	20+10.71	25.44' RT	PROPOSED EDGE OF PAVEMENT	6185.56'
81	1374825.20	3180167.61	20+07.67	25.03' RT	PROPOSED EDGE OF PAVEMENT	6185.46'
82	1374828.20	3180145.33	19+85.39	22.03' RT	PROPOSED EDGE OF PAVEMENT	6184.81'
83	1374828.60	3180141.91	19+81.97	21.63' RT	PROPOSED EDGE OF PAVEMENT	6184.75'
84	1374828.88	3180130.00	19+70.07	21.36' RT	PROPOSED EDGE OF PAVEMENT	6184.41'
85	1374828.98	3180125.40	19+65.47	21.25' RT	PROPOSED EDGE OF PAVEMENT	6184.25'
86	1374829.00	3180124.48	19+64.54	21.23' RT	PROPOSED EDGE OF PAVEMENT	6184.20'
87	1374829.09	3180120.77	19+60.84	21.14' RT	PROPOSED EDGE OF PAVEMENT	6184.00'
88	1374831.01	3180037.31	18+77.37	19.22' RT	PROPOSED EDGE OF PAVEMENT	6179.57'
89	1374830.52	3180027.98	18+68.05	19.71' RT	PROPOSED EDGE OF PAVEMENT	6179.13'
90	1374829.77	3180023.51	18+63.57	20.46' RT	PROPOSED EDGE OF PAVEMENT	6179.00'
91	1374817.25	3179996.91	18+36.94	32.99' RT	PROPOSED EDGE OF PAVEMENT	6178.15'
92	1374815.76	3179995.13	18+35.20	34.48' RT	PROPOSED EDGE OF PAVEMENT	6178.08'
93	1374809.59	3179988.99	18+29.05	40.64' RT	PROPOSED EDGE OF PAVEMENT	6177.83'
94	1374800.23	3179982.30	18+22.37	50.01' RT	PROPOSED EDGE OF PAVEMENT	6177.53'
95	1374782.56	3179975.42	34+89.62	40.78' RT	PROPOSED EDGE OF PAVEMENT	6177.10'
96	1374772.72	3179973.99	34+79.78	39.35' RT	PROPOSED EDGE OF PAVEMENT	6176.88'
97	1374769.01	3179973.88	34+76.07	39.25' RT	PROPOSED EDGE OF PAVEMENT	6176.80'
98	1374766.35	3179973.94	34+73.41	39.30' RT	PROPOSED EDGE OF PAVEMENT	6176.72'
99	1374758.70	3179974.75	34+65.75	40.11' RT	PROPOSED EDGE OF PAVEMENT	6176.50'
100	1374690.83	3179980.82	33+97.31	46.15' RT	PROPOSED EDGE OF PAVEMENT	6174.50'
101	1374689.78	3179980.88	33+96.26	46.20' RT	PROPOSED EDGE OF PAVEMENT	6174.47'
102	1374679.84	3179981.44	33+86.31	46.64' RT	PROPOSED EDGE OF PAVEMENT	6174.19'

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
103	1374669.69	3179982.02	33+76.16	47.09' RT	PROPOSED EDGE OF PAVEMENT	6173.93'
104	1374656.90	3179982.75	33+63.36	47.65' RT	PROPOSED EDGE OF PAVEMENT	6173.58'
105	1374653.77	3179982.93	33+60.23	47.79' RT	PROPOSED EDGE OF PAVEMENT	6173.50'
106	1374635.91	3179983.94	33+42.35	48.59' RT	PROPOSED EDGE OF PAVEMENT	6173.00'
107	1374631.89	3179984.17	33+38.33	48.76' RT	PROPOSED EDGE OF PAVEMENT	6172.90'
108	1374591.87	3179986.44	32+98.29	50.53' RT	PROPOSED EDGE OF PAVEMENT	6171.88'
109	1374580.51	3179987.09	32+86.92	51.04' RT	PROPOSED EDGE OF PAVEMENT	6171.58'
110	1374575.70	3179987.19	32+82.11	51.09' RT	PROPOSED EDGE OF PAVEMENT	6171.46'
111	1374554.63	3179987.63	32+61.03	51.30' RT	PROPOSED EDGE OF PAVEMENT	6170.92'
112	1374554.34	3179975.00	32+60.90	38.63' RT	PROPOSED EDGE OF PAVEMENT	6170.98'
113	1374554.05	3179962.08	32+60.77	25.77' RT	PROPOSED EDGE OF PAVEMENT	6170.07'
114	1374559.08	3179962.08	32+65.80	25.71' RT	PROPOSED EDGE OF PAVEMENT	6170.20'
115	1374573.03	3179962.28	32+79.75	25.08' RT	PROPOSED EDGE OF PAVEMENT	6170.56'
116	1374578.64	3179962.44	32+85.35	25.96' RT	PROPOSED EDGE OF PAVEMENT	6170.72'
117	1374590.53	3179962.95	32+97.26	26.53' RT	PROPOSED EDGE OF PAVEMENT	6171.09'
118	1374591.87	3179963.03	32+98.59	26.62' RT	PROPOSED EDGE OF PAVEMENT	6171.13'
119	1374597.81	3179963.37	33+04.54	27.04' RT	PROPOSED EDGE OF PAVEMENT	6171.30'
120	1374636.67	3179967.01	33+43.32	31.67' RT	PROPOSED EDGE OF PAVEMENT	6172.30'
121	1374684.97	3179969.08	33+91.60	34.37' RT	PROPOSED EDGE OF PAVEMENT	6173.55'
122	1374699.30	3179968.19	34+06.36	33.56' RT	PROPOSED EDGE OF PAVEMENT	6174.04'
123	1374730.05	3179963.93	34+37.11	29.30' RT	PROPOSED EDGE OF PAVEMENT	6175.04'
124	1374749.24	3179959.60	34+56.30	24.97' RT	PROPOSED EDGE OF PAVEMENT	6175.64'
125	1374761.89	3179957.37	34+68.95	22.73' RT	PROPOSED EDGE OF PAVEMENT	6176.04'
126	1374770.20	3179957.02	34+77.26	22.38' RT	PROPOSED EDGE OF PAVEMENT	6176.30'
127	1374771.53	3179957.04	34+78.58	22.41' RT	PROPOSED EDGE OF PAVEMENT	6176.34'
128	1374784.96	3179958.54	34+92.02	23.91' RT	PROPOSED EDGE OF PAVEMENT	6176.76'
129	1374788.40	3179954.67	17+94.74	61.83' RT	PROPOSED EDGE OF PAVEMENT	6176.95'
130	1374787.52	3179951.71	17+91.77	62.72' RT	PROPOSED EDGE OF PAVEMENT	6177.02'
131	1374785.31	3179937.73	17+77.79	64.93' RT	PROPOSED EDGE OF PAVEMENT	6177.12'
132	1374785.25	3179936.26	17+76.32	64.98' RT	PROPOSED EDGE OF PAVEMENT	6177.09'
133	1374787.47	3179917.72	17+57.78	62.76' RT	PROPOSED EDGE OF PAVEMENT	6176.75'
134	1374787.45	3179915.04	17+55.10	62.78' RT	PROPOSED EDGE OF PAVEMENT	6176.70'
135	1374781.76	3179911.49	34+88.81	23.14' LT	PROPOSED EDGE OF PAVEMENT	6176.43'
136	1374768.15	3179912.69	34+75.20	21.95' LT	PROPOSED EDGE OF PAVEMENT	6175.94'

Print Date: 11/6/2025
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31ST ST & FONTANERO ST
GRADING POINT TABLE
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 2 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 3

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Know what's below. Call before you dig.

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
137	1374762.48	3179912.45	34+69.53	22.18' LT	PROPOSED EDGE OF PAVEMENT	6175.75'
138	1374739.08	3179911.53	34+46.14	23.10' LT	PROPOSED EDGE OF PAVEMENT	6174.95'
139	1374735.47	3179911.53	34+42.53	23.10' LT	PROPOSED EDGE OF PAVEMENT	6174.84'
140	1374712.30	3179912.68	34+19.36	21.96' LT	PROPOSED EDGE OF PAVEMENT	6174.12'
141	1374688.35	3179914.31	33+95.67	20.38' LT	PROPOSED EDGE OF PAVEMENT	6173.39'
142	1374682.53	3179914.57	33+89.84	20.20' LT	PROPOSED EDGE OF PAVEMENT	6173.26'
143	1374673.09	3179914.86	33+80.39	20.03' LT	PROPOSED EDGE OF PAVEMENT	6173.04'
144	1374662.40	3179915.10	33+69.70	19.92' LT	PROPOSED EDGE OF PAVEMENT	6172.79'
145	1374661.81	3179889.19	33+69.44	45.83' LT	PROPOSED EDGE OF PAVEMENT	6173.04'
146	1374667.63	3179889.06	33+75.26	45.94' LT	PROPOSED EDGE OF PAVEMENT	6173.19'
147	1374687.82	3179888.60	33+95.45	46.13' LT	PROPOSED EDGE OF PAVEMENT	6173.70'
148	1374689.86	3179888.56	33+97.49	46.12' LT	PROPOSED EDGE OF PAVEMENT	6173.75'
149	1374696.27	3179888.41	34+03.32	46.23' LT	PROPOSED EDGE OF PAVEMENT	6173.93'
150	1374734.78	3179887.53	34+41.83	47.10' LT	PROPOSED EDGE OF PAVEMENT	6174.84'
151	1374737.14	3179887.48	34+44.20	47.16' LT	PROPOSED EDGE OF PAVEMENT	6174.90'
152	1374742.32	3179889.02	34+49.37	45.62' LT	PROPOSED EDGE OF PAVEMENT	6175.03'
153	1374744.93	3179889.80	34+51.99	44.84' LT	PROPOSED EDGE OF PAVEMENT	6175.10'
154	1374766.57	3179896.25	34+73.62	38.39' LT	PROPOSED EDGE OF PAVEMENT	6175.65'
155	1374777.49	3179897.00	34+84.54	37.63' LT	PROPOSED EDGE OF PAVEMENT	6175.92'
156	1374782.79	3179895.94	34+89.84	38.69' LT	PROPOSED EDGE OF PAVEMENT	6176.06'
157	1374789.39	3179893.90	17+33.97	60.84' RT	PROPOSED EDGE OF PAVEMENT	6176.23'
158	1374816.00	3179874.24	17+14.30	34.24' RT	PROPOSED EDGE OF PAVEMENT	6176.75'
159	1374828.20	3179842.78	16+82.84	22.03' RT	PROPOSED EDGE OF PAVEMENT	6177.30'
160	1374828.06	3179831.17	16+71.23	22.17' RT	PROPOSED EDGE OF PAVEMENT	6177.42'
161	1374821.84	3179774.25	16+14.32	28.40' RT	PROPOSED EDGE OF PAVEMENT	6177.91'
162	1374821.69	3179761.34	16+01.40	28.54' RT	PROPOSED EDGE OF PAVEMENT	6178.01'
163	1374851.69	3179760.94	16+01.00	1.46' LT	PROPOSED EDGE OF PAVEMENT	6179.70'
164	1374875.63	3179760.62	16+00.68	25.40' LT	PROPOSED EDGE OF PAVEMENT	6179.33'
165	1374858.76	3179795.22	16+35.28	8.53' LT	PROPOSED EDGE OF PAVEMENT	6179.51'
166	1374850.08	3179818.98	16+59.04	0.16' RT	PROPOSED EDGE OF PAVEMENT	6178.62'
167	1374850.28	3179823.88	16+63.95	0.05' LT	PROPOSED EDGE OF PAVEMENT	6178.57'
168	1374851.11	3179844.01	16+84.07	0.87' LT	PROPOSED EDGE OF PAVEMENT	6178.36'
169	1374855.48	3179864.15	17+04.21	5.24' LT	PROPOSED EDGE OF PAVEMENT	6178.14'
170	1374851.68	3179869.65	17+09.71	1.45' LT	PROPOSED EDGE OF PAVEMENT	6177.98'

31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
171	1374847.57	3179869.69	17+09.75	2.67' RT	PROPOSED EDGE OF PAVEMENT	6177.86'
172	1374843.46	3179869.99	17+10.05	6.77' RT	PROPOSED EDGE OF PAVEMENT	6177.77'
173	1374841.31	3179867.53	17+07.59	8.92' RT	PROPOSED EDGE OF PAVEMENT	6177.76'
174	1374842.55	3179855.01	16+95.08	7.68' RT	PROPOSED EDGE OF PAVEMENT	6177.88'
175	1374841.29	3179824.22	16+64.28	8.95' RT	PROPOSED EDGE OF PAVEMENT	6178.18'
176	1374841.08	3179819.35	16+59.41	9.15' RT	PROPOSED EDGE OF PAVEMENT	6178.19'
177	1374845.48	3179814.65	16+54.71	4.75' RT	PROPOSED EDGE OF PAVEMENT	6178.46'
178	1374870.94	3179893.00	17+33.06	20.71' LT	PROPOSED EDGE OF PAVEMENT	6179.06'
179	1374893.41	3179917.38	17+57.44	43.18' LT	PROPOSED EDGE OF PAVEMENT	6180.03'
180	1374895.85	3179943.66	17+83.72	45.62' LT	PROPOSED EDGE OF PAVEMENT	6180.50'
181	1374881.10	3179969.41	18+09.48	30.87' LT	PROPOSED EDGE OF PAVEMENT	6180.18'
182	1374877.43	3179972.35	18+12.41	27.20' LT	PROPOSED EDGE OF PAVEMENT	6180.12'
183	1374868.25	3179977.50	18+17.56	18.02' LT	PROPOSED EDGE OF PAVEMENT	6179.99'
184	1374850.23	3179981.13	18+21.20	00.00' RT	PROPOSED EDGE OF PAVEMENT	6179.17'
185	1374819.17	3179969.24	18+09.30	31.06' RT	PROPOSED EDGE OF PAVEMENT	6177.88'
186	1374804.63	3179943.74	17+83.80	45.60' RT	PROPOSED EDGE OF PAVEMENT	6177.41'
187	1374803.74	3179935.46	17+75.52	46.49' RT	PROPOSED EDGE OF PAVEMENT	6177.42'
188	1374805.86	3179920.73	17+60.79	44.37' RT	PROPOSED EDGE OF PAVEMENT	6177.20'
189	1374814.20	3179905.25	17+45.31	36.04' RT	PROPOSED EDGE OF PAVEMENT	6177.18'
190	1374833.16	3179891.38	17+31.45	17.08' RT	PROPOSED EDGE OF PAVEMENT	6177.66'
191	1374846.53	3179888.28	17+28.35	3.70' RT	PROPOSED EDGE OF PAVEMENT	6178.07'
192	1374866.49	3179999.33	18+39.39	16.25' LT	PROPOSED EDGE OF PAVEMENT	6180.01'
193	1374866.51	3180000.73	18+40.80	16.28' LT	PROPOSED EDGE OF PAVEMENT	6180.04'
194	1374861.94	3180028.68	18+68.74	11.71' LT	PROPOSED EDGE OF PAVEMENT	6180.99'
195	1374863.28	3180042.32	18+82.38	13.05' LT	PROPOSED EDGE OF PAVEMENT	6181.45'
196	1374866.61	3180077.74	19+17.80	16.78' LT	PROPOSED EDGE OF PAVEMENT	6182.98'
196a	1374867.08	3180179.73	20+19.79	16.85' LT	PROPOSED EDGE OF PAVEMENT	6187.15'
197	1374860.20	3180232.70	20+72.76	9.96' LT	PROPOSED EDGE OF PAVEMENT	6189.47'
198	1374853.63	3180244.16	20+84.22	2.42' LT	PROPOSED EDGE OF PAVEMENT	6189.63'
199	1374848.40	3180231.14	20+71.20	1.83' RT	PROPOSED EDGE OF PAVEMENT	6189.31'
200	1374848.36	3180180.65	20+20.71	1.88' RT	PROPOSED EDGE OF PAVEMENT	6187.35'
201	1374847.11	3180140.87	19+80.93	3.13' RT	PROPOSED EDGE OF PAVEMENT	6185.75'
202	1374846.43	3180106.28	19+46.34	3.80' RT	PROPOSED EDGE OF PAVEMENT	6184.33'
203	1374852.67	3180044.81	18+84.87	2.44' LT	PROPOSED EDGE OF PAVEMENT	6181.26'

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31ST ST & FONTANERO ST
GRADING POINT TABLE
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 3 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 4

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31ST AND FONTANERO GRADING PLAN - ROADWAY POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
204	1374848.44	3180005.13	18+45.20	1.80' RT	PROPOSED EDGE OF PAVEMENT	6179.36'
205	1374852.02	3179999.61	18+39.67	1.79' LT	PROPOSED EDGE OF PAVEMENT	6179.45'
206	1374858.15	3179999.15	18+39.21	7.91' LT	PROPOSED EDGE OF PAVEMENT	6179.70'
207	1374864.20	3179998.12	18+38.18	13.96' LT	PROPOSED EDGE OF PAVEMENT	6179.94'
208	1374867.49	3179987.04	18+27.10	17.26' LT	PROPOSED EDGE OF PAVEMENT	6180.00'
209	1374893.01	3179971.63	18+11.70	42.78' LT	PROPOSED EDGE OF PAVEMENT	6179.98'
210	1374905.62	3179968.65	18+08.71	55.39' LT	PROPOSED EDGE OF PAVEMENT	6179.97'
211	1375064.62	3179961.99	37+71.68	27.36' RT	PROPOSED EDGE OF PAVEMENT	6182.50'
212	1375064.45	3179969.46	37+71.50	34.82' RT	PROPOSED EDGE OF PAVEMENT	6183.20'
213	1375064.34	3179973.74	37+71.40	39.10' RT	PROPOSED EDGE OF PAVEMENT	6183.28'
214	1375071.23	3179969.81	37+78.28	35.18' RT	PROPOSED EDGE OF PAVEMENT	6183.40'
215	1375024.74	3179891.46	37+31.79	43.18' LT	PROPOSED EDGE OF PAVEMENT	6181.99'
216	1375026.79	3179897.80	37+33.85	36.84' LT	PROPOSED EDGE OF PAVEMENT	6182.00'
217	1375049.31	3179903.91	37+56.37	30.73' LT	PROPOSED EDGE OF PAVEMENT	6181.28'
218	1374731.54	3179900.00	34+38.59	34.63' LT	PROPOSED EDGE OF PAVEMENT	6175.20'
219	1374713.08	3179900.62	34+20.13	34.01' LT	PROPOSED EDGE OF PAVEMENT	6174.72'
220	1374688.09	3179901.47	33+95.56	33.23' LT	PROPOSED EDGE OF PAVEMENT	6174.08'
221	1374591.87	3179973.77	32+98.45	37.86' RT	PROPOSED EDGE OF PAVEMENT	6171.91'
222	1374573.11	3179974.39	32+79.68	38.25' RT	PROPOSED EDGE OF PAVEMENT	6171.47'
223	1374630.78	3179977.89	33+37.30	42.47' RT	PROPOSED EDGE OF PAVEMENT	6172.62'

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31ST ST & FONTANERO ST
GRADING POINT TABLE
ROADWAY

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 4 of 13

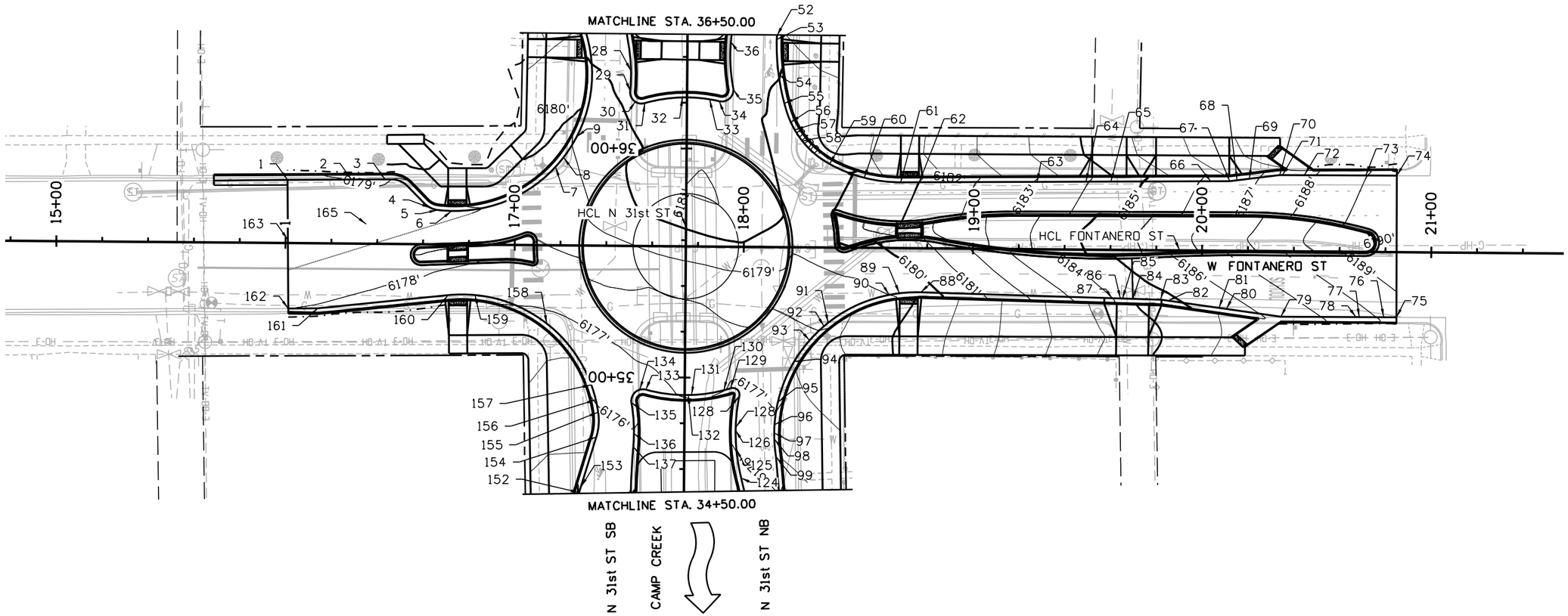
Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 5

811 Know what's below. Call before you dig.

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



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File Name: 23916GEC_01-06_Pn.dgn		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:		Project #STM-REV25-0629
Horiz. Scale: 1:50	Vert. Scale:					Revised:	Designer: JDM	Structure Numbers: CSG-E.00-10.57A
Unit Information	Unit Leader				COLORADO SPRINGS OLYMPIC CITY USA	Void:	Detailer: BKM	Bid #__-__
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								Sheet Number 6

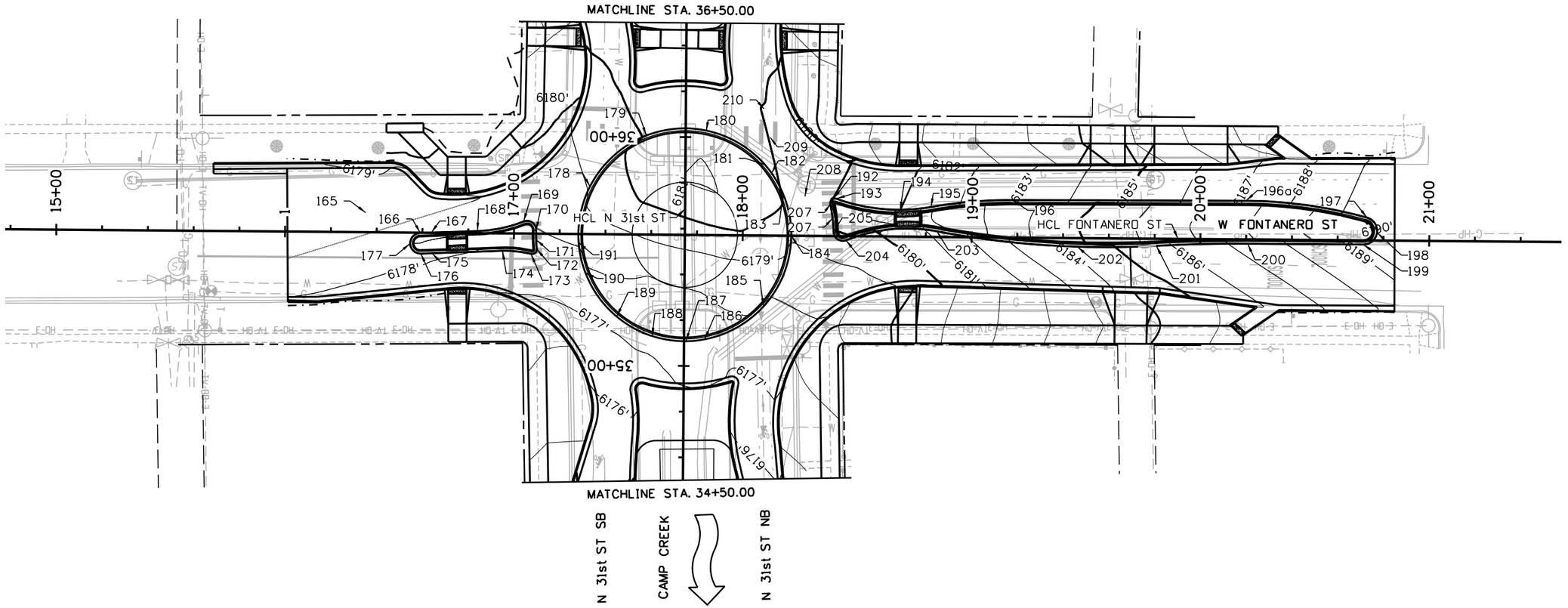
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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



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File Name: 23916GEC_01-07_Pn.dgn		Date:	Comments	Init.	WILSON & COMPANY 5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108		Project #STM-REV25-0629
Horiz. Scale: 1:50	Vert. Scale:					No Revisions:	
Unit Information	Unit Leader				COLORADO SPRINGS OLYMPIC CITY USA	Revised:	Designer: JDM / Structure Numbers: CSG-E.00-10.57A
						Void:	Detailer: BKM / Bid #__-__
							Sheet Subset: GRADE / Subset Sheets: 6 of 13 / Sheet Number 7

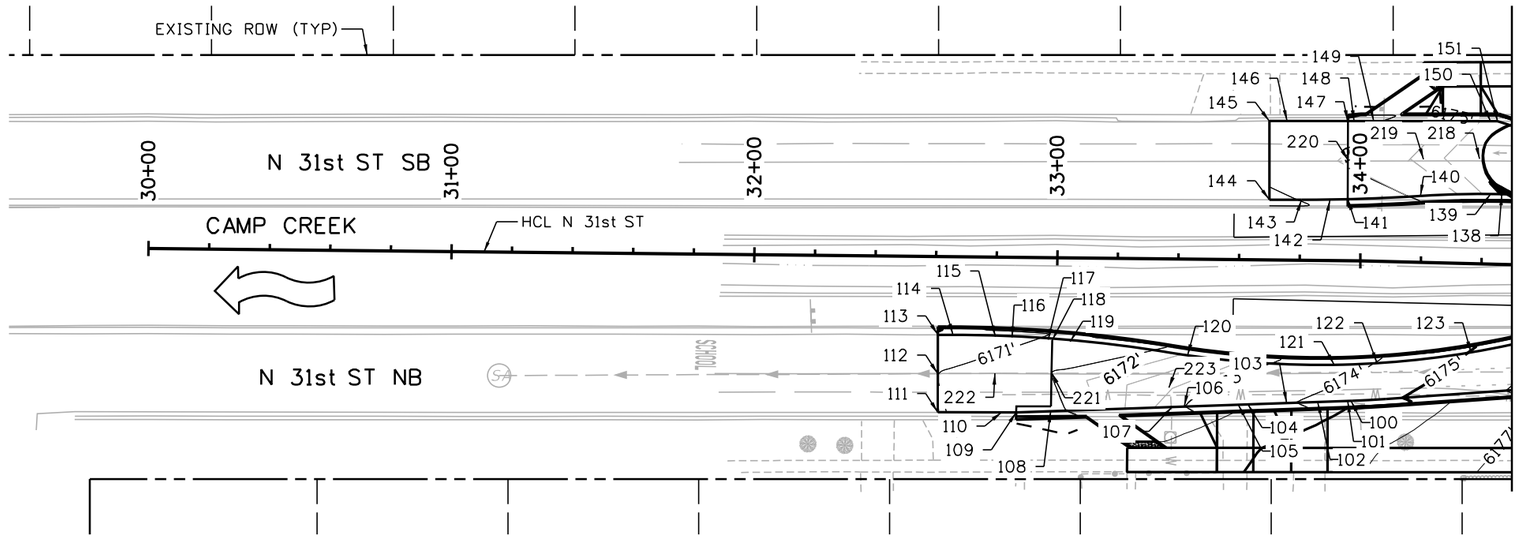
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811 Know what's below. Call before you dig.

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



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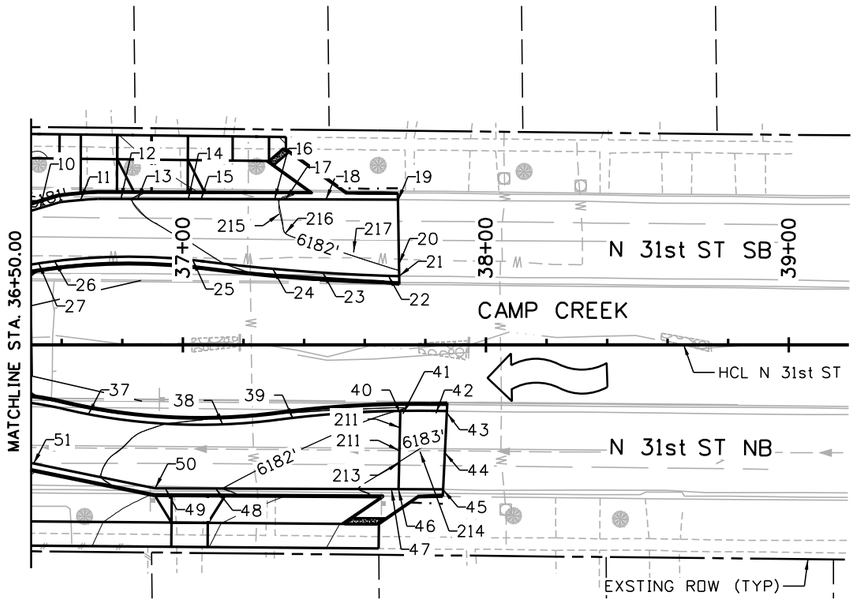
31ST ST & FONTANERO ST
GRADING PLAN
ROADWAY

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	GRADE	Subset Sheets: 7 of 13	

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 8

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Unit Information Unit Leader							Void:

31ST ST & FONTANERO ST
GRADING PLAN
ROADWAY

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A	Project No./Code: Project #STM-REV25-0629
Detailer:	BKM			Bid #__-__
Sheet Subset:	GRADE	Subset Sheets: 8 of 13		Sheet Number 9

811 Know what's below. Call before you dig.

31ST AND FONTANERO GRADING PLAN - SIDEWALK POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
300a	1374850.23	3179820.07	16+60.13	47.83' LT	PROPOSED SIDEWALK	6180.72'
300b	1374850.23	3179803.86	16+43.93	47.54' LT	PROPOSED SIDEWALK	6180.76'
300c	1374850.23	3179803.90	16+73.96	43.67' LT	PROPOSED SIDEWALK	6180.72'
300	1374893.95	3179808.90	16+48.96	43.72' LT	PROPOSED SIDEWALK	6180.58'
301	1374894.06	3179820.10	16+60.17	43.83' LT	PROPOSED SIDEWALK	6180.71'
302	1374883.46	3179830.70	16+70.77	33.23' LT	PROPOSED SIDEWALK	6179.61'
303	1374883.60	3179847.66	16+86.50	33.35l LT	PROPOSED SIDEWALK	6179.45'
303a	3179934.64	3179848.56	16+88.63	34.26' LT	PROPOSED SIDEWALK	6179.43'
303b	1374850.23	3179860.37	17+00.43	46.02' LT	PROPOSED SIDEWALK	6180.19'
304	1374900.40	3179864.52	17+04.60	51.39' LT	PROPOSED SIDEWALK	6180.45'
304a	1374932.25	3179864.90	36+39.30	69.73' LT	PROPOSED SIDEWALK	6181.30'
304b	1374940.25	3179865.00	36+47.30	69.63' LT	PROPOSED SIDEWALK	6181.36'
305	1375026.99	3179866.03	37+34.05	68.60' LT	PROPOSED SIDEWALK	6183.03'
306	1375026.94	3179869.96	37+34.00	64.68' LT	PROPOSED SIDEWALK	6182.97'
306a	1375046.57	3179884.67	37+53.63	49.963' LT	PROPOSED BIKE RAMP	6182.34'
306b	1375035.72	3179884.36	37+42.78	50.00' LT	PROPOSED BIKE RAMP	6182.09'
307	1375021.38	3179873.97	37+28.43	60.67' LT	PROPOSED SIDEWALK	6182.84'
307a	1379934.64	3179873.00	36+47.24	61.64' LT	PROPOSED SIDEWALK	6181.32'
307B	1374932.19	3179872.90	36+39.24	61.72' LT	PROPOSED SIDEWALK	6181.26'
308	1374900.30	3179872.52	17+12.60	51.29' LT	PROPOSED SIDEWALK	6179.54'
308a	1374893.86	317869.30	17+09.36	43.629' LT	PROPOSED SIDEWALK	6180.24'
308b	1374850.23	3179865.98	17+06.04	40.32' LT	PROPOSED SIDEWALK	6179.31'
309	1374875.60	3179847.73	16+86.57	25.35' LT	PROPOSED SIDEWALK	6179.41'
310	1374875.43	3179827.42	16+67.48	25.20' LT	PROPOSED SIDEWALK	6179.68'
311	1375057.59	3179993.85	37+64.65	59.22' RT	PROPOSED SIDEWALK	6184.33'
311a	1375059.22	3179984.34	37+66.27	49.71' RT	PROPOSED BIKE RAMP	6183.07'
311b	1375070.44	3179984.40	37+77.49	49.77' RT	PROPOSED BIKE RAMP	6183.34'
311c	1375046.26	3179993.76	37+53.32	59.13' RT	PROPOSED SIDEWALK	6184.04'
312	1375057.53	3180001.85	37+64.59	67.22' RT	PROPOSED SIDEWALK	6184.45'
312a	1375001.10	3180001.41	37+08.16	66.82' RT	PROPOSED SIDEWALK	6182.91'
312b	1374989.11	3180001.31	36+96.16	66.68' RT	PROPOSED SIDEWALK	6182.58'
312c	1374939.29	3180000.92	36+46.35	66.28' RT	PROPOSED SIDEWALK	6181.22'
312d	1374931.24	3180000.86	36+38.30	66.27' RT	PROPOSED SIDEWALK	6181.10'
313	1374911.05	3180000.70	18+40.76	60.82' LT	PROPOSED SIDEWALK	6180.82'

31ST AND FONTANERO GRADING PLAN - SIDEWALK POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
314	1374906.86	3180000.33	18+40.39	56.63' LT	PROPOSED SIDEWALK	6180.66'
315	1374902.05	3179999.92	18+39.98	51.82' LT	PROPOSED SIDEWALK	6180.47'
316	1374898.81	3180003.16	18+43.22	48.57' LT	PROPOSED SIDEWALK	6180.39'
317	1374899.34	3180009.43	18+49.49	49.10' LT	PROPOSED SIDEWALK	6180.69'
317a	1374899.38	3180028.12	18+68.18	49.14' LT	PROPOSED SIDEWALK	6181.54'
317b	1374899.40	3180036.16	18+76.23	49.16' LT	PROPOSED SIDEWALK	6181.63'
317c	1374899.57	3180111.59	19+51.65	49.33' LT	PROPOSED DRIVEWAY	6185.21'
317d	1374899.60	3180126.59	19+66.65	49.37' LT	PROPOSED DRIVEWAY	6185.87'
317e	1374899.63	3180139.45	19+79.51	49.40' LT	PROPOSED DRIVEWAY	6186.44'
317f	1374899.70	3180171.45	20+11.51	49.47' LT	PROPOSED DRIVEWAY	6187.86'
318	1374899.75	3180193.58	20+33.64	49.52' LT	PROPOSED SIDEWALK	6188.83'
319	1374896.11	3180193.59	20+33.65	45.88' LT	PROPOSED SIDEWALK	6188.78'
319a	1374885.52	3180207.91	20+47.97	35.29' LT	PROPOSED BIKE RAMP	6187.82'
319b	1374885.50	3180196.68	20+36.75	35.27' LT	PROPOSED BIKE RAMP	6187.35'
320	1374891.74	3180188.49	20+28.55	41.51' LT	PROPOSED SIDEWALK	6188.45'
320a	1374891.70	3180171.50	20+11.56	41.48' LT	PROPOSED DRIVEWAY	6187.70'
320b	1374891.63	3180139.50	19+79.56	41.38' LT	PROPOSED DRIVEWAY	6186.36'
320c	1374891.60	3180126.64	19+66.70	41.37' LT	PROPOSED DRIVEWAY	6185.75'
320d	1374891.57	3180111.64	19+51.70	41.33' LT	PROPOSED DRIVEWAY	6185.09'
320e	1374891.40	3180036.12	18+76.18	41.16' LT	PROPOSED SIDEWALK	6181.53'
320f	1374891.38	3180028.12	18+68.18	41.14' LT	PROPOSED SIDEWALK	6181.35'
321	1374891.34	3180009.78	18+49.84	41.10' LT	PROPOSED SIDEWALK	6180.79'
322	1374890.83	3180003.83	18+43.89	40.60' LT	PROPOSED SIDEWALK	6180.56'
323	1374902.75	3179991.95	18+32.01	52.51' LT	PROPOSED SIDEWALK	6180.09'
324	1374911.43	3179992.70	18+32.76	61.20' LT	PROPOSED SIDEWALK	6180.59'
324a	1374931.30	3179992.86	18+32.92	81.07' LT	PROPOSED SIDEWALK	6181.22'
324b	1374939.30	3179992.92	18+32.98	89.07' LT	PROPOSED SIDEWALK	6181.34'
324c	1374989.16	3179993.31	18+33.37	138.93' LT	PROPOSED DRIVEWAY	6182.60'
324d	1375001.16	3179993.32	18+33.39	150.93' LT	PROPOSED DRIVEWAY	6182.91'
325	1374808.32	3180178.99	20+19.05	41.92' RT	PROPOSED SIDEWALK	6186.52'
326	1374804.50	3180179.01	20+19.07	45.73' RT	PROPOSED SIDEWALK	6186.58'
327	1374803.52	3180004.97	18+45.03	46.71' RT	PROPOSED SIDEWALK	6179.00'
328	1374799.58	3180002.01	18+42.07	50.65' RT	PROPOSED SIDEWALK	6178.92'
329	1374617.56	3180006.00	33+23.73	70.41' RT	PROPOSED SIDEWALK	6174.45'

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31ST ST & FONTANERO ST
GRADING POINT TABLE
SIDEWALK

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 9 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 10

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31ST AND FONTANERO GRADING PLAN - SIDEWALK POINT ELEVATIONS						
POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
330	1374617.38	3179998.00	33+23.65	62.41' RT	PROPOSED SIDEWALK	6174.33'
330a	1374603.15	3179987.77	33+10.20	52.01' RT	PROPOSED BIKE RAMP	6172.32'
330b	1374616.77	3179987.17	33+20.82	51.54' RT	PROPOSED BIKE RAMP	6172.05'
331	1374630.39	3179997.72	33+36.67	62.29' RT	PROPOSED SIDEWALK	6174.17'
332	1374800.28	3179993.99	18+34.05	49.96' RT	PROPOSED SIDEWALK	6178.58'
333	1374811.52	3180004.92	18+44.99	38.71' RT	PROPOSED SIDEWALK	6179.12'
334	1374812.47	3180172.70	20+12.76	37.77' RT	PROPOSED SIDEWALK	6186.16'
334a	1374820.85	3180184.96	20+25.02	29.39' RT	PROPOSED BIKE RAMP	6185.88'
334b	1379934.64	3180194.29	20+34.35	30.64' RT	PROPOSED BIKE RAMP	6166.16'
335	1374718.00	3179876.41	34+25.06	58.23' LT	PROPOSED SIDEWALK	6175.00'
335a	3179934.64	3179886.21	34+12.22	48.43' LT	PROPOSED BIKE RAMP	6174.03'
335b	3179934.66	3179886.46	34+00.94	48.17' LT	PROPOSED BIKE RAMP	6173.76'
336	1374712.46	3179872.39	34+19.52	62.24' LT	PROPOSED SIDEWALK	6174.98'
337	1374712.37	3179868.54	34+19.42	66.09' LT	PROPOSED SIDEWALK	6175.06'
337a	1374718.70	3179868.39	34+25.76	66.24' LT	PROPOSED DRIVEWAY	6175.22'
337b	1374731.21	3179868.08	34+38.26	66.56' LT	PROPOSED DRIVEWAY	6175.53'
338	1374800.00	3179866.37	17+06.43	50.24' RT	PROPOSED SIDEWALK	6177.26'
339	1374802.92	3179863.33	17+03.39	47.31' RT	PROPOSED SIDEWALK	6177.34'
339a	1374802.64	3179839.65	16+79.73	47.59' RT	PROPOSED SIDEWALK	6177.83'
340	1374802.55	3179831.65	16+71.72	47.69' RT	PROPOSED SIDEWALK	6177.97'
341	1374810.55	3179831.56	16+71.62	39.69' RT	PROPOSED SIDEWALK	6177.88'
341a	1374850.23	3179934.64	16+79.62	39.59' RT	PROPOSED SIDEWALK	6177.76'
342	1374810.92	3179863.24	17+03.30	39.31' RT	PROPOSED SIDEWALK	6177.41'
343	1374800.19	3179874.36	17+14.43	50.04' RT	PROPOSED SIDEWALK	6177.10'
343a	1374731.38	3179876.07	17+16.14	118.85' RT	PROPOSED SIDEWALK	6177.10'

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31ST ST & FONTANERO ST
GRADING POINT TABLE
SIDEWALK

Designer: JDM
Detailer: BKM
Sheet Subset: GRADE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 10 of 13

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 11

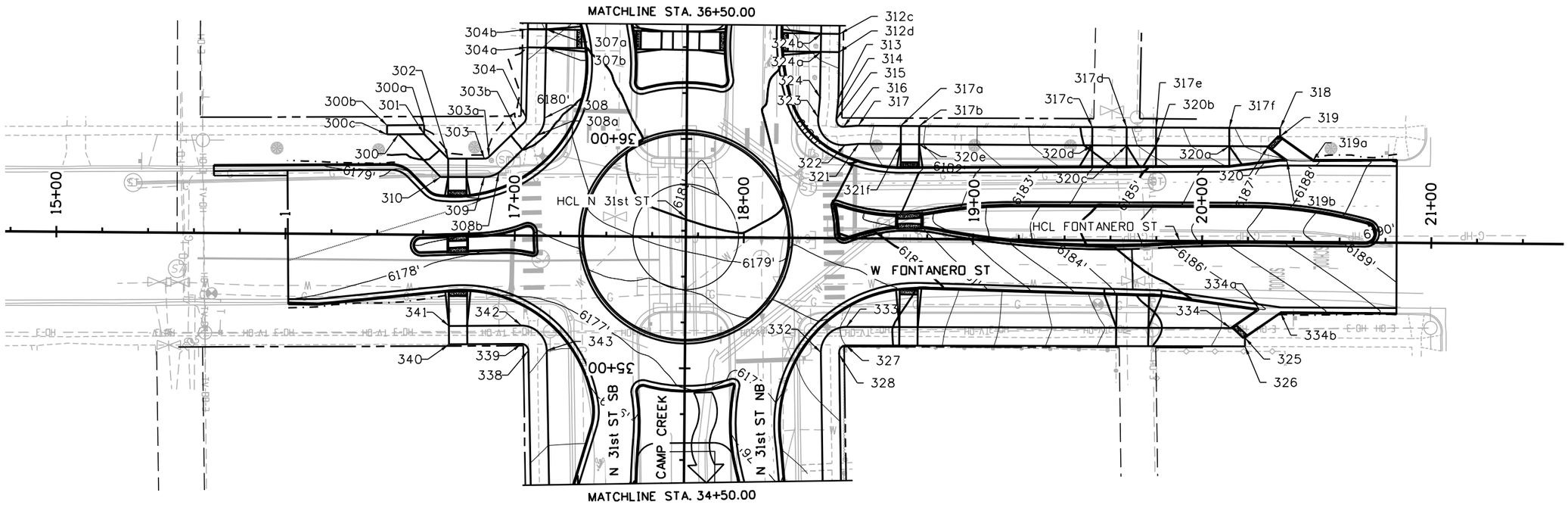
FOR INFORMATION ONLY

Know what's below. Call before you dig.

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



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31ST ST & FONTANERO ST GRADING PLAN SIDEWALK				Project No./Code
Designer: JDM	Structure Numbers	CSG-E.00-10.57A		Project #STM-REV25-0629
Detailer: BKM				Bid #__-__
Sheet Subset: GRADE	Subset Sheets: 11 of 13			Sheet Number 12

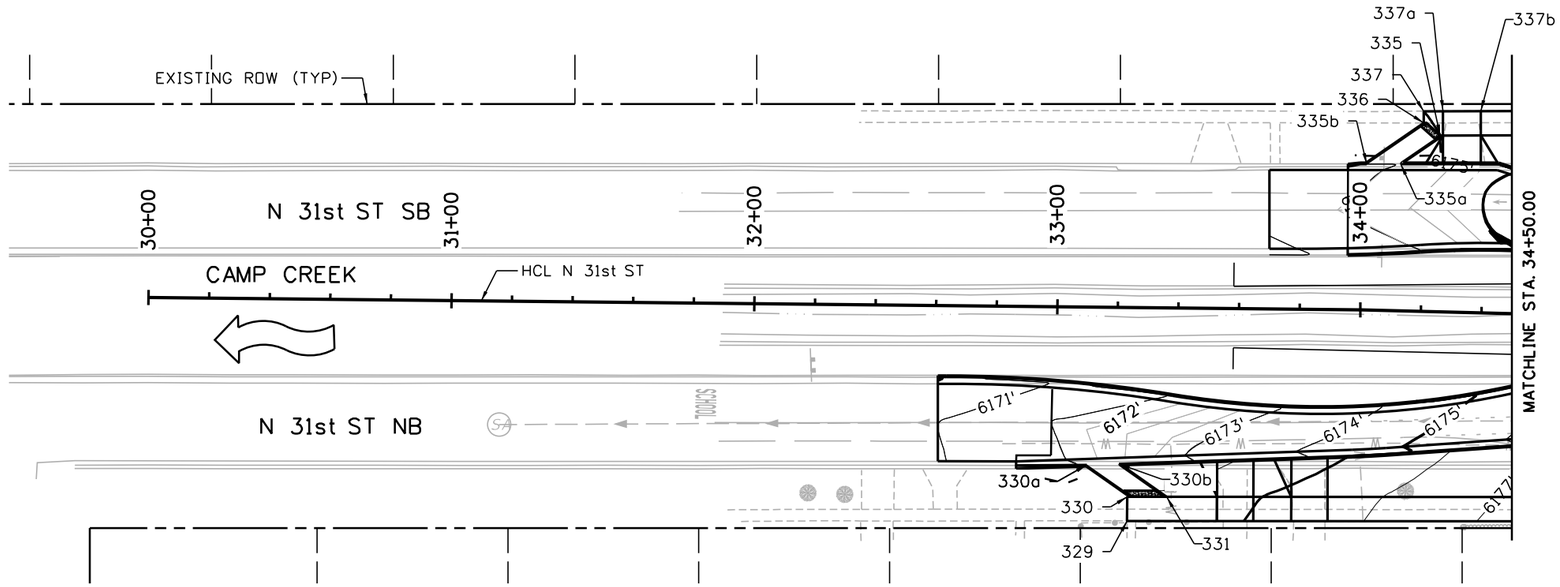
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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



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31ST ST & FONTANERO ST GRADING PLAN SIDEWALK				Project No./Code
				Project #STM-REV25-0629
Designer: JDM	Structure Numbers	CSG-E.00-10.57A		Bid #__-__
Detailer: BKM				
Sheet Subset: GRADE	Subset Sheets: 12 of 13			Sheet Number 13

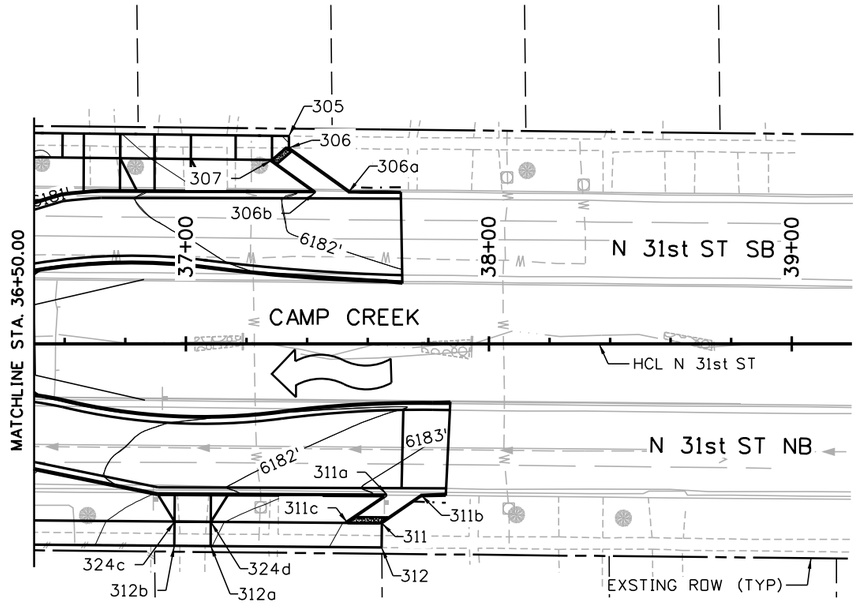
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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



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31ST ST & FONTANERO ST
GRADING PLAN
SIDEWALK

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
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Project #STM-REV25-0629
Bid #__-__
Sheet Number 14

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STORMWATER ENTERPRISE GRADING AND EROSION CONTROL GENERAL NOTES

1. NO CLEARING, GRADING, EXCAVATION, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE ALLOWED (EXCEPT FOR WORK DIRECTLY RELATED TO THE INSTALLATION OF INITIAL CONTROL MEASURES) UNTIL A CITY GEC PERMIT HAS BEEN ISSUED.
2. ALL LAND DISTURBING ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH AND THE APPROVED GEC PLAN AND CSWMP.
3. INITIAL CONTROL MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TAKING PLACE. AN INITIAL SITE INSPECTION WILL NOT BE SCHEDULED UNTIL A CITY GEC PERMIT HAS BEEN "CONDITIONALLY APPROVED." CALL CITY STORMWATER INSPECTIONS, 385-5980, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE AN INITIAL INSPECTION AND OBTAIN FULL PERMIT APPROVAL.
4. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS) AND THE "CLEAN WATER ACT" (33 USC 1344), INCLUDING REGULATIONS PROMULGATED AND CERTIFICATIONS OR PERMITS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE CITY'S MS4 PERMIT, STORMWATER CONSTRUCTION MANUAL. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
5. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS.
6. ALL CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION MEASURES ARE IMPLEMENTED. TEMPORARY CONSTRUCTION CONTROL MEASURES MUST BE REMOVED PRIOR TO PERMIT CLOSEOUT.
7. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS OR ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
8. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONSTRUCTION CONTROL MEASURES MAY BE REQUIRED BY THE GEC INSPECTOR IF DEEMED NECESSARY BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON OF THE YEAR, ETC.).
9. ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
10. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AS A RESULT OF CONSTRUCTION ACTIVITIES.
11. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO THE STORM SEWER SYSTEM AT ANY TIME.
12. SPILL PREVENTION AND CONTAINMENT MEASURES SHALL BE USED AT ALL STORAGE, EQUIPMENT FUELING, AND EQUIPMENT SERVICING AREAS SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING THE MS4, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITY. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE SECONDARY CONTAINMENT OR EQUIVALENT ADEQUATE PROTECTION. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.
13. SEDIMENT (MUD AND DIRT) TRANSPORTED ONTO A PUBLIC ROAD, REGARDLESS OF THE SIZE OF THE SITE, SHALL BE CLEANED AS SOON AS POSSIBLE AFTER DISCOVERY.
14. NO CHEMICALS ARE TO BE ADDED TO THE DISCHARGE UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED BY THE STATE. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
15. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER FINAL GRADING OR FINAL LAND DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN FOURTEEN (14) DAYS SHALL BE ROUGHENED, MULCHED, TACKIFIED, OR STABILIZED WITH TARPS WITHIN FOURTEEN (14) DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN SIXTY (60) DAYS SHALL ALSO BE SEEDED, UNLESS AN ALTERNATIVE STABILIZATION MEASURE IS ACCEPTED AT THE INSPECTOR'S DISCRETION. ALL TEMPORARY CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED.
16. THE GEC PLAN WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE STORMWATER ENTERPRISE SHOULD ANY OF THE FOLLOWING OCCUR: GRADING DOES NOT COMMENCE WITHIN TWELVE (12) MONTHS OF THE CITY'S ACCEPTANCE OF THE PLAN, THE CONSTRUCTION SITE IS IDLE FOR TWELVE (12) CONSECUTIVE MONTHS, A CHANGE IN PROPERTY OWNERSHIP OCCURS, THE PLANNED DEVELOPMENT CHANGES, OR ANY OTHER MAJOR MODIFICATIONS ARE PROPOSED AS DEFINED IN THE STORMWATER CONSTRUCTION MANUAL.

COLORADO LICENSED ERIC THOMAS POLINO 60084 PROFESSIONAL ENGINEER
01/08/26

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Print Date: 11/6/2025	Sheet Revisions		
File Name: 23916GEC_03-01_GenNote.dgn	Date:	Comments	Init.
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WILSON & COMPANY
5755 Mark Dabling Blvd.
Suite 100
Colorado Springs, CO 80919
Phone: 719-520-5800
FAX: 719-520-0108

No Revisions:
Revised:
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31ST ST & FONTANERO ST
GRADING & EROSION CONTROL
GENERAL NOTES

Designer: ETP
Detailer: BKM
Sheet Subset: GEC-NOTE
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 2

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 15

Know what's below. Call before you dig.

17. IT IS NOT PERMISSIBLE FOR ANY PERSON TO MODIFY THE GRADE OF THE EARTH ON ANY UTILITY EASEMENT OR UTILITY RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM THE UTILITY OWNER. CITY ACCEPTANCE OF THE GEC PLAN AND CSWMP DOES NOT SATISFY THIS REQUIREMENT. THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO EXISTING UTILITY FACILITIES TO ACCOMMODATE THE PLAN MUST BE APPROVED BY THE AFFECTED UTILITY OWNER PRIOR TO IMPLEMENTING THE PLAN. THE COST TO RELOCATE OR PROTECT EXISTING UTILITIES OR TO PROVIDE INTERIM ACCESS SHALL BE AT THE APPLICANT'S EXPENSE.
18. APPLICANT REPRESENTS AND WARRANTS THAT THEY HAVE THE LEGAL AUTHORITY TO GRADE AND/OR CONSTRUCT IMPROVEMENTS ON ADJACENT PROPERTY. THE CITY HAS NOT REVIEWED THE DEVELOPER'S AUTHORITY TO MODIFY ADJACENT PROPERTY. AN APPROVED GEC PERMIT DOES NOT PROVIDE APPROVAL FOR THE APPLICANT TO PERFORM WORK ON ADJACENT PROPERTY.
19. ALL UTILITY INSTALLATIONS WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE COVERED UNDER THIS PLAN. LOCATIONS OF UTILITIES WITHIN THE LIMITS OF DISTURBANCE MAY BE MODIFIED AFTER PLAN APPROVAL AS A FIELD CHANGE. UTILITY INSTALLATIONS RELATED TO THE PRIVATE DEVELOPMENT THAT EXTEND BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE CONSIDERED TO BE PART OF THE LARGER DEVELOPMENT, AND THEREFORE REQUIRE A PLAN MODIFICATION OR SEPARATE PLAN FOR THE ADDITIONAL DISTURBANCE AREA.
20. LOCATION OF NO-BUILD AREAS IF INDICATED IN A GEOLOGICAL HAZARD STUDY: N/A.
21. LOCATION OF EXISTING OR PROPOSED WATER COURSES TO INCLUDE, BUT NOT LIMITED TO, GROUNDWATER SPRINGS, STREAMS, WETLANDS, OR OTHER SURFACE WATERS, INCLUDING AREAS WHERE THE COR400000 REQUIRES THAT PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF CAMP CREEK.
22. CLOSEST RECEIVING WATERS: CAMP CREEK.
23. LOCATION OF ANY ASPHALT, CONCRETE BATCH PLANTS, AND MASONRY MIX STATIONS: N/A.
24. LIMITS OF CONSTRUCTION AREA IS ESTIMATED TO BE 2.61 ACRES. LIMITS OF DISTURBED AREA IS ESTIMATED TO BE 2.52 ACRES. SEEDING AREA IS ESTIMATED TO BE 0.479 ACRES.
25. THE 100-YEAR FLOODPLAIN IN THE PROJECT AREA IS SHOWN ON THE 100-YEAR FEMA FLOODPLAIN MAP AT THE END OF THIS GEC.
26. STOCKPILE LOCATION TO BE DETERMINED BY THE CONTRACTOR MUST NOT RESULT IN ADDITIONAL LAND DISTURBANCE.
27. CONCRETE WASHOUT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR.
28. VEHICLE TRACKING PAD LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR.
29. STAGING AREA LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR.
30. START APRIL 2026, END OCTOBER 2026. FINAL STABILIZATION APRIL 2027.
31. SWEEPING AS A NON-STRUCTURAL CONTROL MEASURE SHALL BE PROVIDED BY THE CONTRACTOR.
32. ALL UTILITY INSTALLATIONS WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE COVERED UNDER THIS PLAN. LOCATIONS OF UTILITIES WITHIN THE LIMITS OF DISTURBANCE MAY BE MODIFIED AFTER PLAN APPROVAL AS A FIELD CHANGE. UTILITY INSTALLATIONS RELATED TO THE PRIVATE DEVELOPMENT THAT EXTEND BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE CONSIDERED TO BE PART OF THE LARGER DEVELOPMENT, AND THEREFORE REQUIRE A PLAN MODIFICATION OR SEPARATE PLAN FOR THE ADDITIONAL DISTURBANCE AREA.
33. AFTER THE GEC PLAN AND CSWMP ARE BOTH APPROVED, A CITY GEC PERMIT MUST BE OBTAINED. PLEASE USE THE CITY SOFTWARE, ACCELA, TO COMPLETE AND SUBMIT THE GEC PERMIT APPLICATION AND PAY THE PERMIT FEE. AFTER YOUR GEC PERMIT APPLICATION HAS BEEN SUBMITTED, YOU WILL RECEIVE AN EMAIL WITH FURTHER INSTRUCTIONS. CONSTRUCTION ACTIVITIES SHALL NOT BEGIN UNTIL A GEC PERMIT HAS BEEN OBTAINED. FOR ADDITIONAL INFORMATION, CALL (719) 385-5980.
34. THERE ARE NO PLANNED INFILTRATION AREAS (PIAS) ON THIS SITE.
35. THERE ARE NO PRESERVATION EASEMENTS ON THIS SITE.
36. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETION AND SUBMITTAL OF THE CSWMP UTILIZING THE MOST RECENT TEMPLATE. CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS REQUIRED FOR THE CSWMP. THIS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EROSION CONTROL WORK.

COLORADO LICENSED ERIC THOMAS PALMER 60084 PROFESSIONAL ENGINEER
01/08/26

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Print Date: 1/8/2026		Sheet Revisions			COLORADO SPRINGS OLYMPIC CITY USA	WILSON & COMPANY 5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	31ST ST & FONTANERO ST GRADING & EROSION CONTROL GENERAL NOTES
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Horiz. Scale: 1:1	Vert. Scale:					No Revisions:	Designer: ETP / Detailer: BKM / Sheet Subset: GEC-NOTE
Unit Information	Unit Leader					Revised:	Structure Numbers: CSG-E.00-10.57A / Subset Sheets: 2 of 2
						Void:	Project No./Code: Project #STM-REV25-0629 / Bid #__-__ / Sheet Number 16

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TABULATION OF GRADING AND EROSION CONTROL QUANTITIES						
Pay Item	Description	Unit	Initial	Interim	Final	Quantity
100-30000	EROSION CONTROL	LS		1		1
100-30010	EROSION CONTROL SUPERVISOR	LS		1		1
530-11525	FENCE PLASTIC	LF	1686	1686		3372
901-00003	ROCK SOCKS	LF	210	222		432
901-00020	SILT FENCE	LF	1074	1074		2148
901-00045	CONCRETE WASHOUT STRUCTURE	EACH		2		2
901-00046	CHECK DAM	EACH		2		2
901-00050	STORM DRAIN INLET PROTECTION	EACH	3	3		6
901-00070	STABILIZED CONSTRUCTION ENTRANCE	EACH		2		2
901-01622	SWEEPING (PICKUP BROOM)	HR		100	100	200

COLORADO LICENSED
THOMAS POLING
60084
PROFESSIONAL ENGINEER
01/08/26

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31ST ST & FONTANERO ST
GRADING & EROSION CONTROL
TABULATIONS

Designer: ETP
Detailer: BKM
Sheet Subset: GEC-TAB
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 1

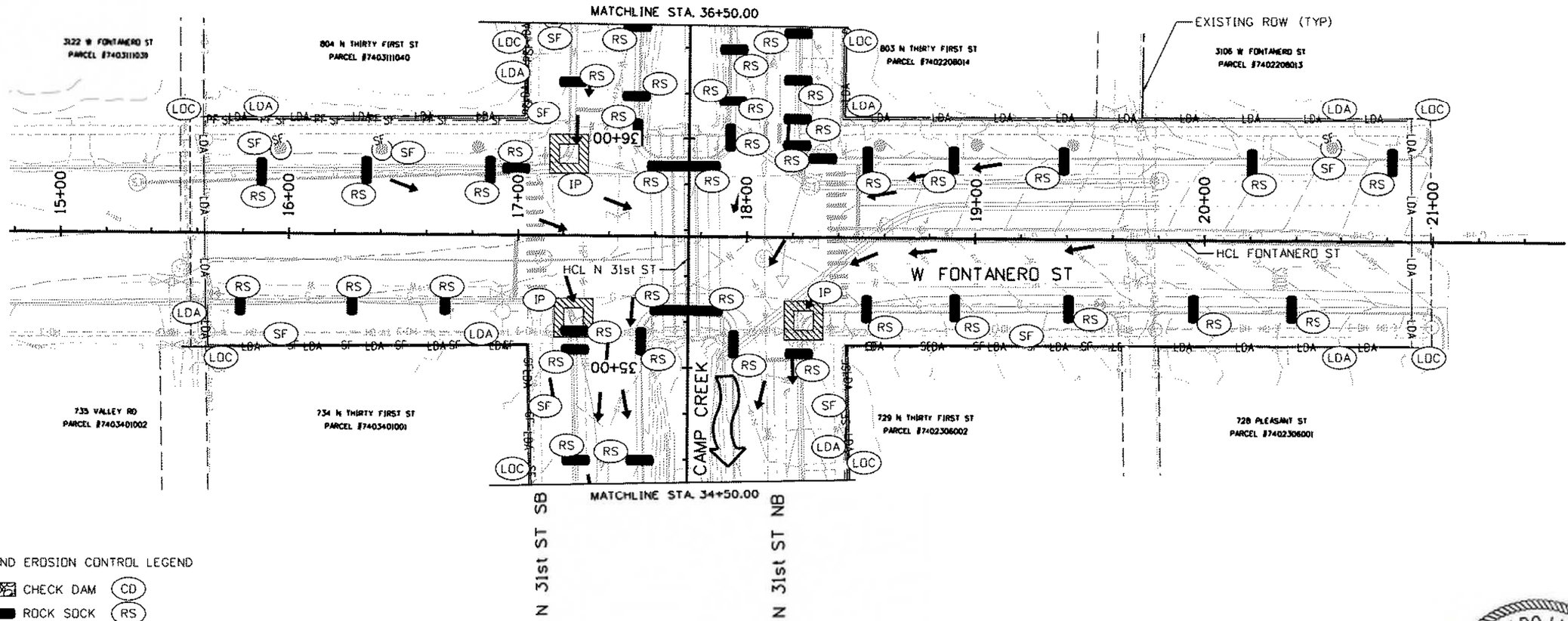
Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 17

Know what's below. Call before you dig.

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



GRADING AND EROSION CONTROL LEGEND

- CHECK DAM (CD)
- ROCK SOCK (RS)
- INLET PROTECTION (IP)
- CONCRETE WASHOUT AREA (CONCRETE WASHOUT STRUCTURE) (CWA)
- LIMITS OF CONSTRUCTION (LOC) (LOC)
- LIMITS OF DISTURBED AREA (LDA) (LDA)
- SILT FENCE (SF)
- DIRECTION OF FLOW
- PROPERTY LINE

COLORADO LICENSED ERIC THOMAS POLINO 60084 PROFESSIONAL ENGINEER 01/08/26

Print Date: 11/6/2025	Sheet Revisions		
File Name: 23916GEC_05-01-IniPn.dgn	Date:	Comments	Init.
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31ST ST & FONTANERO ST
EROSION CONTROL
INITIAL PHASE

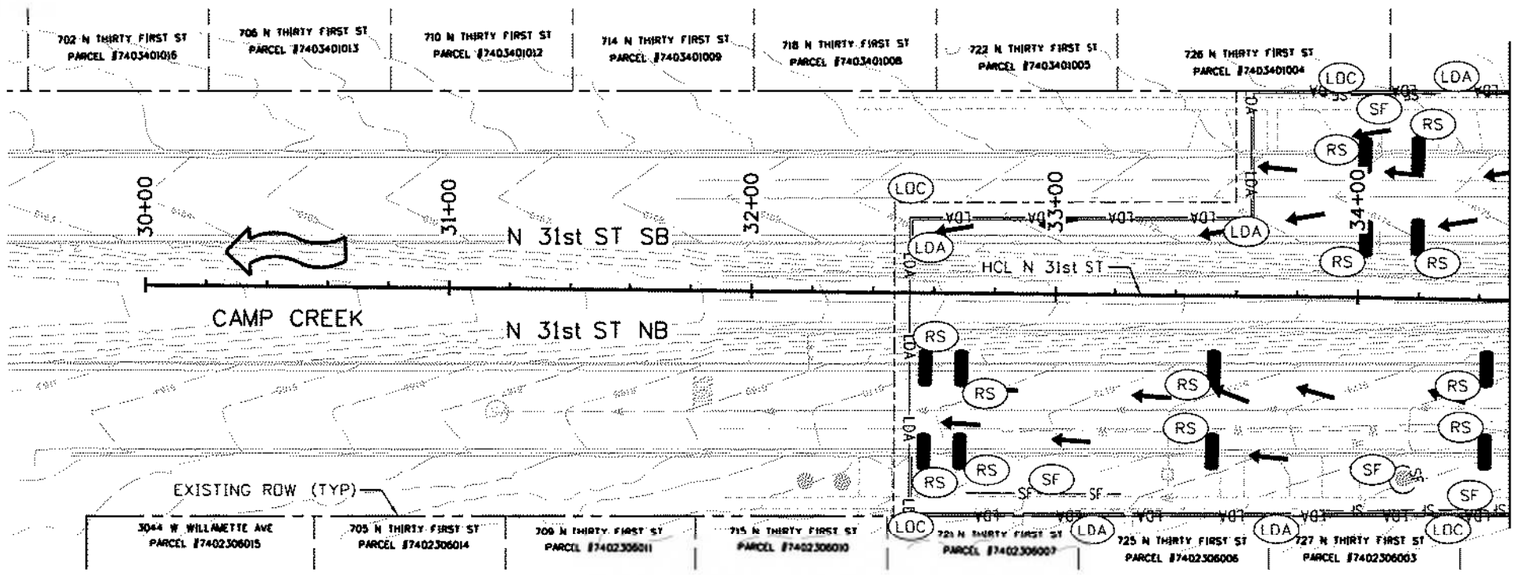
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Detailer:	BKM		
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Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 18

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0' 25' 50' 100'
1 INCH = 50 FEET (FULL SCALE 11"X17")



GRADING AND EROSION CONTROL LEGEND

- CHECK DAM (CD)
- ROCK SOCK (RS)
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- CONCRETE WASHOUT AREA (CONCRETE WASHOUT STRUCTURE) (CWA)
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- LIMITS OF DISTURBED AREA (LDA) (LDA)
- SILT FENCE (SF)
- DIRECTION OF FLOW
- PROPERTY LINE

COLORADO LICENSED ERIC THOMAS POLLNOW 60084 PROFESSIONAL ENGINEER
01/08/26

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31ST ST & FONTANERO ST
EROSION CONTROL
INITIAL PHASE

Designer:	ETP	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	GEC-Pn	Subset Sheets: 2 of 9	

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 19

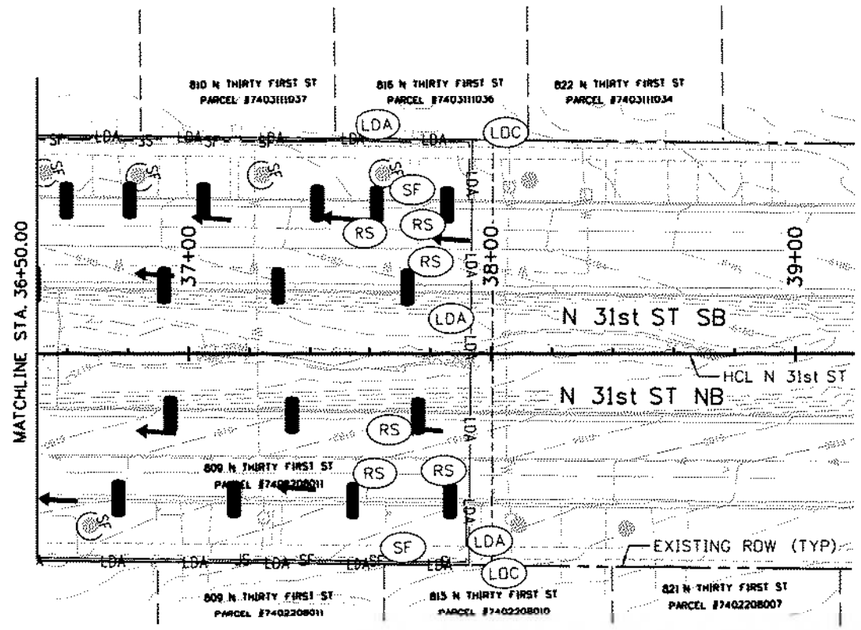
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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



GRADING AND EROSION CONTROL LEGEND

- CHECK DAM (CD)
- ROCK SOCK (RS)
- INLET PROTECTION (IP)
- CONCRETE WASHOUT AREA (CONCRETE WASHOUT STRUCTURE) (CWA)
- LIMITS OF CONSTRUCTION (LOC) (LOC)
- LDA LIMITS OF DISTURBED AREA (LDA) (LDA)
- SF SILT FENCE (SF)
- DIRECTION OF FLOW
- PROPERTY LINE

COLORADO LICENSED ERIC THOMAS PULLINS 60084 PROFESSIONAL ENGINEER 01/08/26

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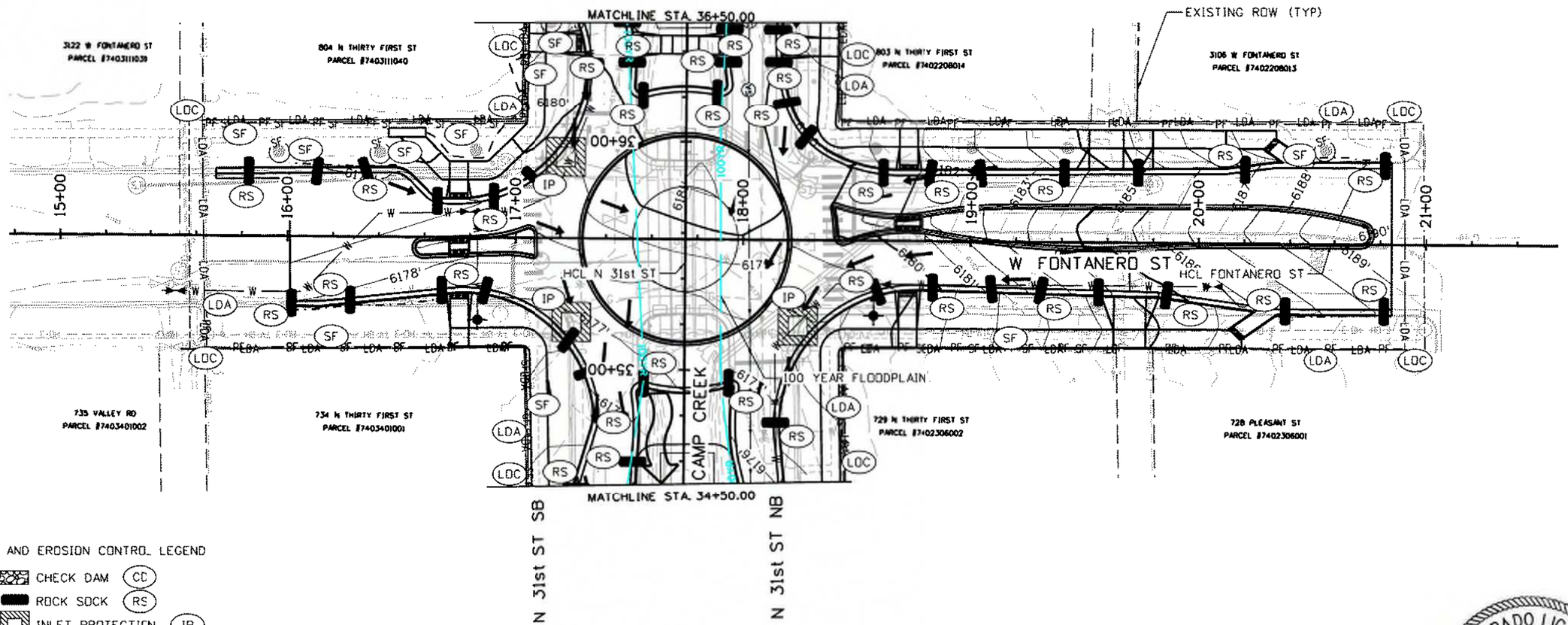
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Horiz. Scale: 1:50	Vert. Scale:							Bid #__-__
Unit Information	Unit Leader						Designer: ETP / Detailer: BKM / Sheet Subset: GEC-Pn / Structure Numbers: CSG-E.00-10.57A / Subset Sheets: 3 of 9	Sheet Number 20
						No Revisions: / Revised: / Void:		

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N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



GRADING AND EROSION CONTROL LEGEND

- CHECK DAM (CD)
- ROCK SOCK (RS)
- INLET PROTECTION (IP)
- CONCRETE WASHOUT AREA (CONCRETE WASHOUT STRUCTURE) (CWA)
- LIMITS OF CONSTRUCTION (LOC) (LOC)
- LIMITS OF DISTURBED AREA (LDA) (LDA)
- SILT FENCE (SF)
- PLASTIC FENCE (PF)
- DIRECTION OF FLOW
- PROPERTY LINE

COLORADO LICENSED ERIC THOMAS POLINO 60084 PROFESSIONAL ENGINEER 01/08/26

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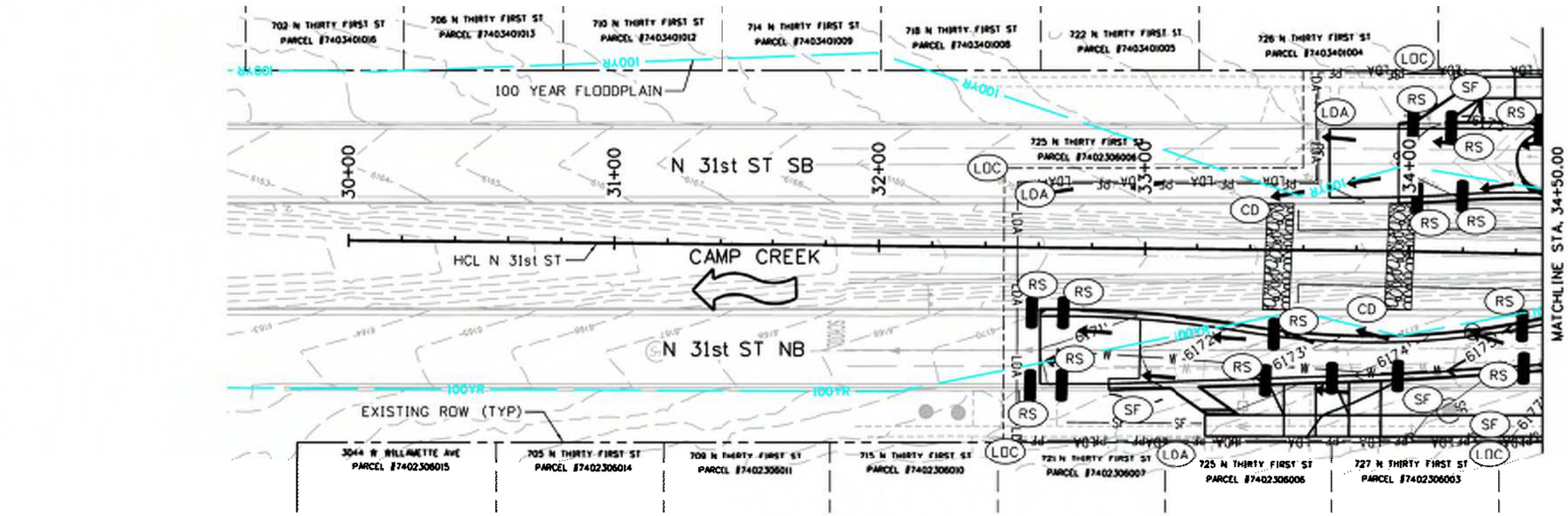
31ST ST & FONTANERO ST
EROSION CONTROL
INTERIM PHASE

Designer:	ETP	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	GEC-Pn	Subset Sheets: 4 of 9	

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 21

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0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")

GRADING AND EROSION CONTROL LEGEND

- CHECK DAM (CD)
- ROCK SOCK (RS)
- INLET PROTECTION (IP)
- CONCRETE WASHOUT AREA (CONCRETE WASHOUT STRUCTURE) (CWA)
- LIMITS OF CONSTRUCTION (LOC) (LOC)
- LDA LIMITS OF DISTURBED AREA (LDA) (LDA)
- SF SILT FENCE (SF)
- PF PLASTIC FENCE (PF)
- DIRECTION OF FLOW
- PROPERTY LINE

COLORADO LICENSED ERIC THOMAS POLING 60084 PROFESSIONAL ENGINEER 01/08/26

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Print Date: 11/6/2025			
File Name: 23916GEC_06-02-IntPn.dgn			
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Unit Information	Unit Leader		

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Date:	Comments	Init.

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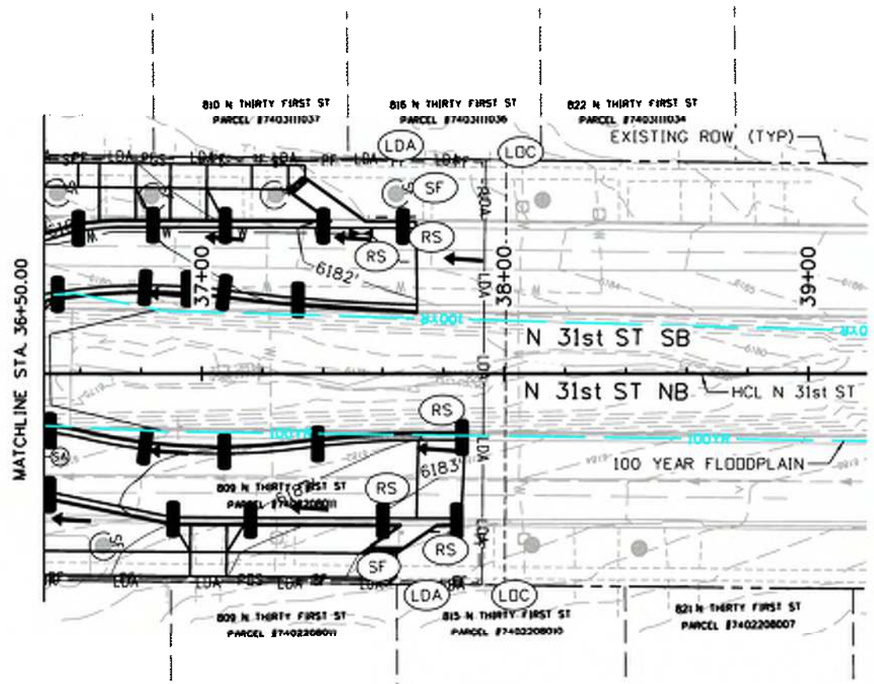
31ST ST & FONTANERO ST
EROSION CONTROL
INTERIM PHASE

Designer:	ETP	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	GEC-Pn	Subset Sheets:	5 of 9

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 22

Know what's below. Call before you dig.

0' 25' 50' 100'
1 INCH = 50 FEET (FULL SCALE 11"X17")



GRADING AND EROSION CONTROL LEGEND

- CHECK DAM (CD)
- ROCK SOCK (RS)
- INLET PROTECTION (IP)
- CONCRETE WASHOUT AREA (CONCRETE WASHOUT STRUCTURE) (CWA)
- LIMITS OF CONSTRUCTION (LOC) (LOC)
- LIMITS OF DISTURBED AREA (LDA) (LDA)
- SILT FENCE (SF)
- PLASTIC FENCE (PF)
- DIRECTION OF FLOW
- PROPERTY LINE

COLORADO LICENSED ERIC THOMAS PLINE 60084 PROFESSIONAL ENGINEER 01/08/26

Print Date: 11/6/2025	Sheet Revisions			31ST ST & FONTANERO ST EROSION CONTROL INTERIM PLAN INTERIM PHASE	Project No./Code
File Name: 23916GEC_06-03-IntPn.dgn	Date:	Comments	Init.		Project #STM-REV25-0629
Horiz. Scale: 1:50 Vert. Scale:				Designer: ETP Structure Numbers CSG-E.00-10.57A	Bid #__-__
Unit Information Unit Leader				Detailer: BKM	
				Sheet Subset: GEC-Pn Subset Sheets: 6 of 9	Sheet Number 23

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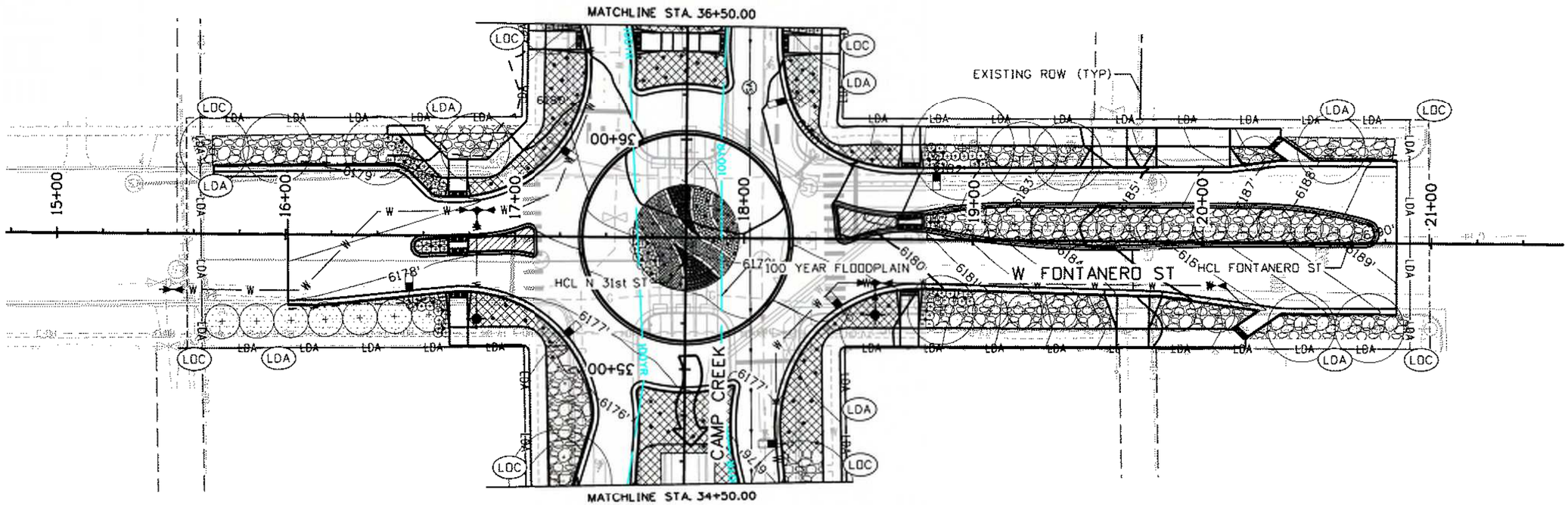
NOTES:

1. SEE LANDSCAPING PLANS FOR PERMANENT EROSION CONTROL.

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



GRADING AND EROSION CONTROL LEGEND

[ ] LIMITS OF CONSTRUCTION (LOC) (LOC)

—LDA— LIMITS OF DISTURBED AREA (LDA) (LDA)

— — — — — PROPERTY LINE

COLORADO LICENSED ERIC THOMAS PUTNEY 60084 PROFESSIONAL ENGINEER 01/08/26

Print Date: 11/12/2025	Sheet Revisions		
File Name: 23916GEC_07-01-PerPn.dgn	Date:	Comments	Init.
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31ST ST & FONTANERO ST
EROSION CONTROL
FINAL PHASE

Designer:	ETP	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	GEC-Pn	Subset Sheets: 7 of 9	

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 24

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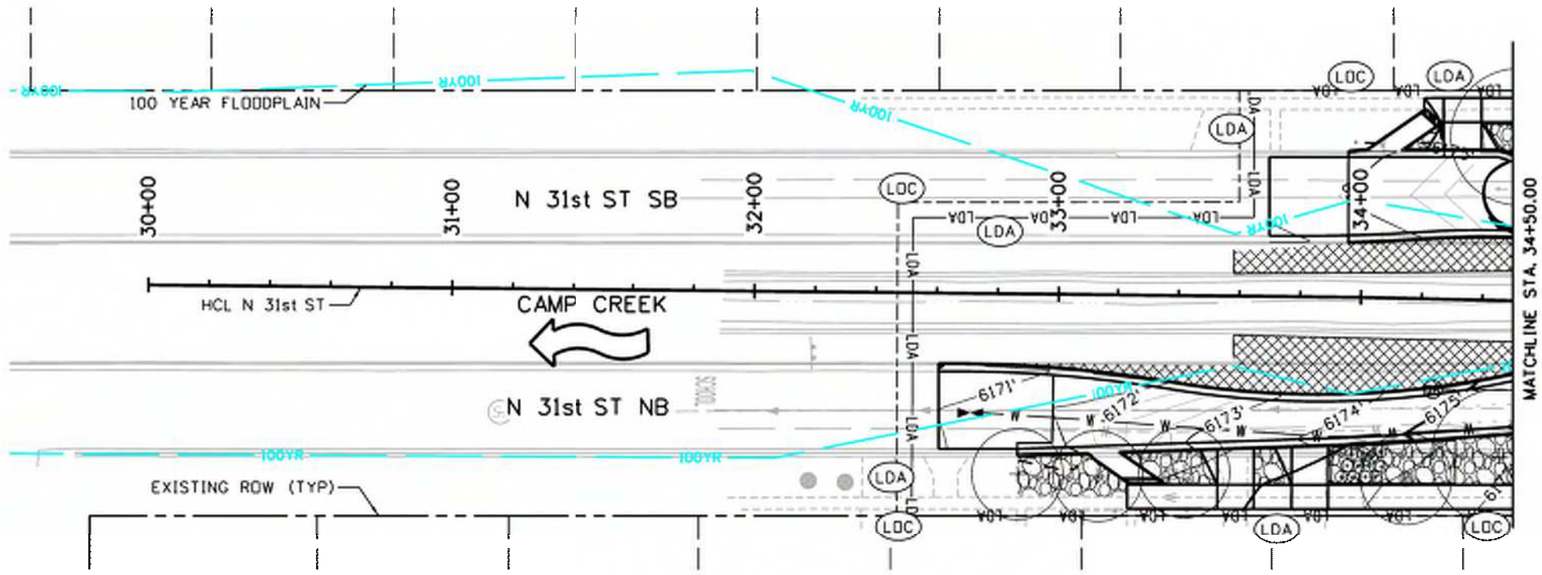
NOTES:

1. SEE LANDSCAPING PLANS FOR PERMANENT EROSION CONTROL.

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



GRADING AND EROSION CONTROL LEGEND

[ ] LIMITS OF CONSTRUCTION (LOC) (LOC)

—LDA— LIMITS OF DISTURBED AREA (LDA) (LDA)

— — — — — PROPERTY LINE

COLORADO LICENSED ERIC THOMAS POLIAN 60084 PROFESSIONAL ENGINEER 01/08/26

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File Name: 23916GEC_07-02-PerPn.dgn		Date:	Comments	Init.				Project #STM-REV25-0629
Horiz. Scale: 1:50	Vert. Scale:					No Revisions:	Designer: ETP	Structure Numbers CSG-E.00-10.57A
Unit Information	Unit Leader					Revised:	Detailer: BKM	Bid #__-__
						Void:	Sheet Subset: GEC-Pn	Subset Sheets: 8 of 9 Sheet Number 25

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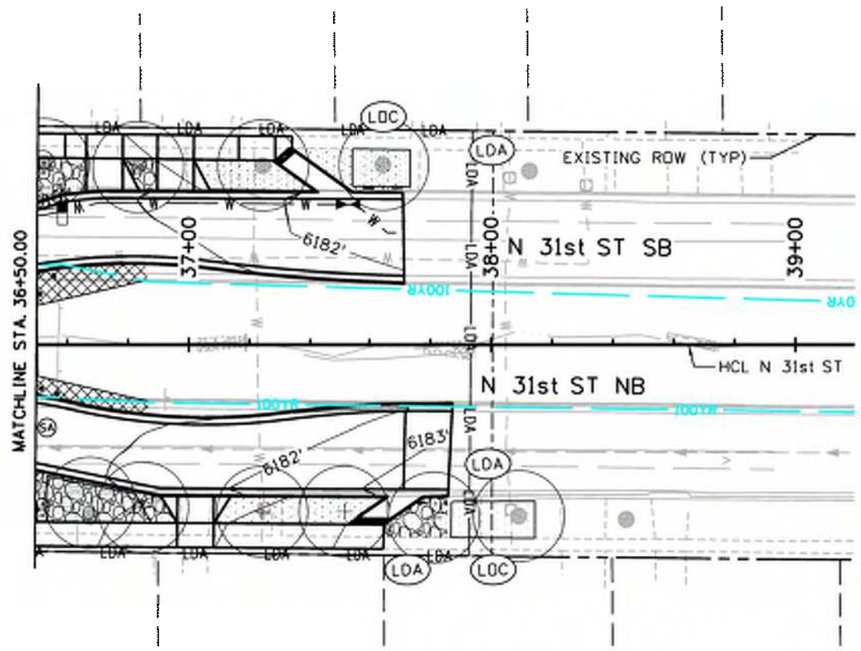
NOTES:

1. SEE LANDSCAPING PLANS FOR PERMANENT EROSION CONTROL.

N

0' 25' 50' 100'

1 INCH = 50 FEET (FULL SCALE 11"X17")



GRADING AND EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION (LOC) (LOC)
- LIMITS OF DISTURBED AREA (LDA) (LDA)
- PROPERTY LINE

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File Name: 23916GEC_07-03-PerPn.dgn	Date:	Comments	Init.			No Revisions:		Project #STM-REV25-0629
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Description

A stabilized staging area is a clearly designated area where construction equipment and vehicles, stockpiles, waste bins, and other construction-related materials are stored. The contractor office trailer may also be located in this area. Depending on the size of the construction site, more than one staging area may be necessary.



Photograph SSA-1. Example of a staging area with a gravel surface to prevent mud tracking and reduce runoff. Photo courtesy of Douglas County.

Appropriate Uses

Most construction sites will require a staging area, which should be clearly designated in SWMP drawings. The layout of the staging area may vary depending on the type of construction activity. Staging areas located in roadways due to space constraints require special measures to avoid materials being washed into storm inlets.

Design and Installation

Stabilized staging areas should be completed prior to other construction activities beginning on the site. Major components of a stabilized staging area include:

- Appropriate space to contain storage and provide for loading/unloading operations, as well as parking if necessary.
- A stabilized surface, either paved or covered, with 3-inch diameter aggregate or larger.
- Perimeter controls such as silt fence, sediment control logs, or other measures.
- Construction fencing to prevent unauthorized access to construction materials.
- Provisions for Good Housekeeping practices related to materials storage and disposal, as described in the Good Housekeeping BMP Fact Sheet.
- A stabilized construction entrance/exit, as described in the Vehicle Tracking Control BMP Fact Sheet, to accommodate traffic associated with material delivery and waste disposal vehicles.

Over-sizing the stabilized staging area may result in disturbance of existing vegetation in excess of that required for the project. This increases costs, as well as requirements for long-term stabilization following the construction period. When designing the stabilized staging area, minimize the area of disturbance to the extent practical.

Stabilized Staging Area	
Functions	
Erosion Control	Yes
Sediment Control	Moderate
Site/Material	Yes

Minimizing Long-Term Stabilization Requirements

- Utilize off-site parking and restrict vehicle access to the site.
- Use construction mats in lieu of rock when staging is provided in an area that will not be disturbed otherwise.
- Consider use of a bermed contained area for materials and equipment that do not require a stabilized surface.
- Consider phasing of staging areas to avoid disturbance in an area that will not be otherwise disturbed.

See Detail SSA-1 for a typical stabilized staging area and SSA-2 for a stabilized staging area when materials staging in roadways is required.

Maintenance and Removal

Maintenance of stabilized staging areas includes maintaining a stable surface cover of gravel, repairing perimeter controls, and following good housekeeping practices.

When construction is complete, debris, unused stockpiles and materials should be recycled or properly disposed. In some cases, this will require disposal of contaminated soil from equipment leaks in an appropriate landfill. Staging areas should then be permanently stabilized with vegetation or other surface cover planned for the development.

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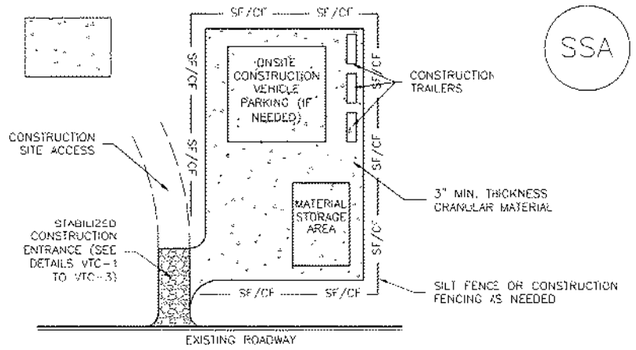
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31ST ST & FONTANERO ST
EROSION CONTROL DETAILS

Designer: ETP
Detailer: BKM
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Structure Numbers: CSG-E.00-10.57A
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SSA

SSA-1, STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   -LOCATION OF STAGING AREA(S).
   -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.

4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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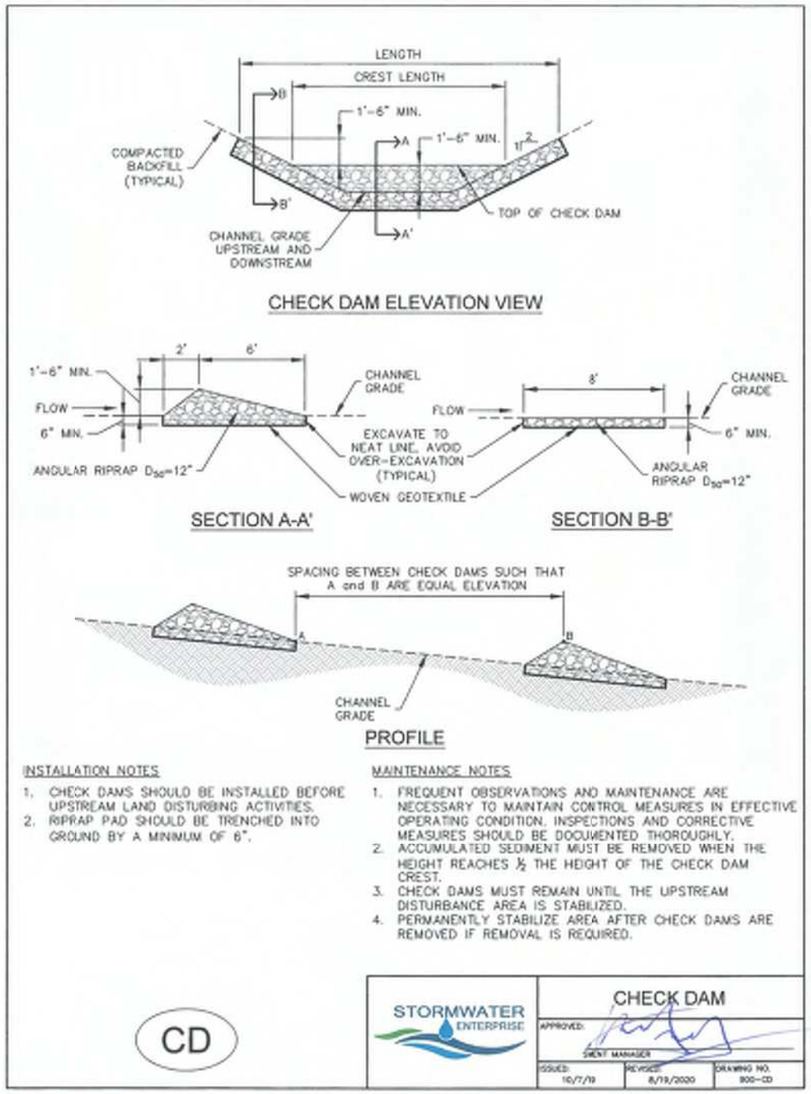
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31ST ST & FONTANERO ST
EROSION CONTROL DETAILS

Designer: ETP
Detailer: BKM
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Structure Numbers: CSG-E.00-10.57A
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Sheet Number 28

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INSTALLATION NOTES

1. CHECK DAMS SHOULD BE INSTALLED BEFORE UPSTREAM LAND DISTURBING ACTIVITIES.
2. RIPRAP PAD SHOULD BE TRENCHED INTO GROUND BY A MINIMUM OF 6".

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ THE HEIGHT OF THE CHECK DAM CREST.
3. CHECK DAMS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AFTER CHECK DAMS ARE REMOVED IF REMOVAL IS REQUIRED.

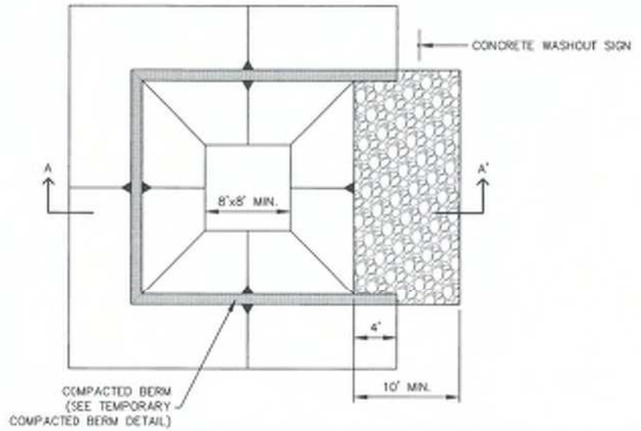
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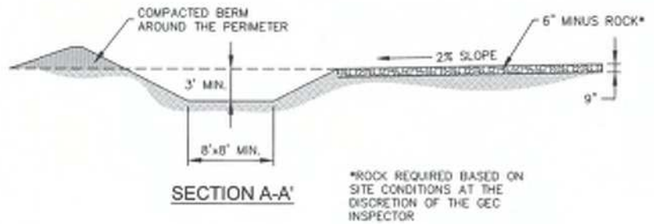
STORMWATER ENTERPRISE

CHECK DAM

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CWA

STORMWATER ENTERPRISE

CONCRETE WASHOUT AREA

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31ST ST & FONTANERO ST
EROSION CONTROL DETAILS

Designer:	ETP	Structure Numbers	CSG-E.00-10.57A
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INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –LOCATION OF CONCRETE WASHOUT AREA
2. LOCATE AT LEAST 50' AWAY FROM STATE WATERS MEASURED HORIZONTALLY.
3. AN IMPERMEABLE LINER (16 MIL MINIMUM THICKNESS) IS REQUIRED IF CONCRETE WASH AREA IS LOCATED WITHIN 400' OF STATE WATERS OR 1000' OF WELLS OR DRINKING WATER SOURCES.
4. DO NOT LOCATE IN AREAS WHERE SHALLOW GROUNDWATER MAY BE PRESENT.
5. THE CONCRETE WASH AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
6. CONCRETE WASH AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8'.
7. BERM SURROUNDING SIDES AND BACK OF CONCRETE WASH AREA SHALL HAVE A MINIMUM HEIGHT OF 2 FEET.
8. CONCRETE WASH AREA ENTRANCE SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH AREA.
9. SIGNS SHALL BE PLACED AT THE CONCRETE WASH AREA.
10. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. THE CONCRETE WASH AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN THE PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF ⅓ THE HEIGHT OF THE CONCRETE WASH AREA.
3. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE, AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER–TIGHT CONTAINER AND DISPOSED OF PROPERLY.
4. THE CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
5. PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.

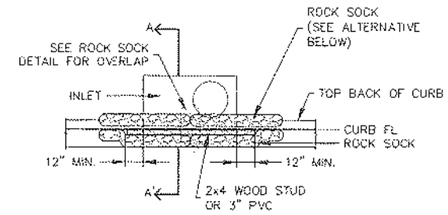
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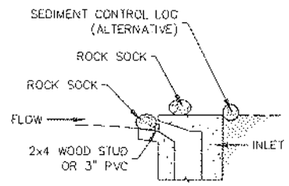
CONCRETE WASHOUT AREA

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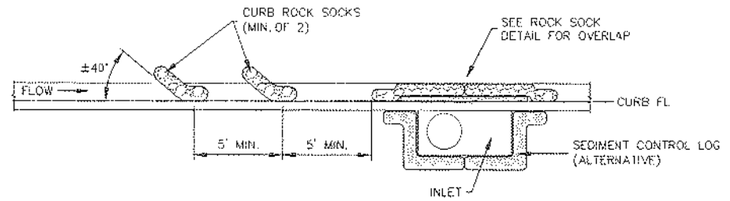
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CURB INLET PROTECTION PLAN



SECTION A-A'



CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

INSTALLATION NOTES

1. SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE ROCK SOCK SHALL BE APPROXIMATELY 40 DEGREES FROM THE CURB.
3. ROCK SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5' APART.
4. AT LEAST TWO CURB ROCK SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON–GRADIENT INLETS.
5. ADDITIONAL ROCK SOCKS MAY BE REQUIRED AT GEC INSPECTOR'S DISCRETION.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA BEHIND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-1

STORMWATER ENTERPRISE

ON-GRADE INLET PROTECTION

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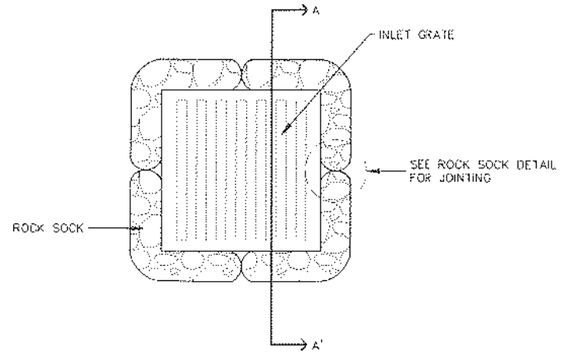
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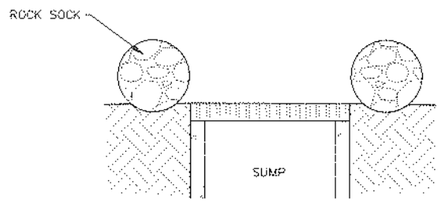
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ROCK SOCK SUMP INLET PROTECTION PLAN



SECTION A-A'

INSTALLATION NOTES

1. SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
2. SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.
3. CONTROL MEASURES MUST BE WRAPPED AROUND INLET AS TIGHTLY AS POSSIBLE.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AROUND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

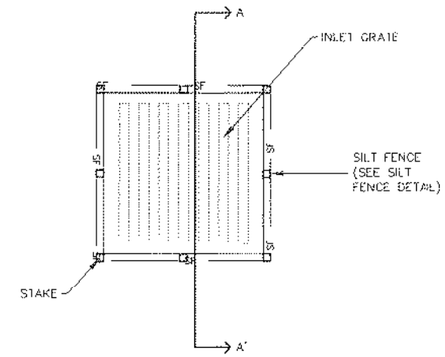
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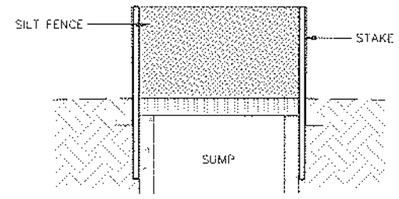
SUMP INLET PROTECTION

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SILT FENCE SUMP INLET PROTECTION PLAN



SECTION A-A'

INSTALLATION NOTES

1. SEE SILT FENCE DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF THREE FEET.
3. SILT FENCE FABRIC SHOULD HAVE A FLOW RATE IN EXCESS OF 30 GALLONS PER MINUTE PER SQUARE YARD SO AS TO ALLOW SOME WATER FLOW AND NOT DAM THE WATER. STANDARD, LOW-FLOW SILT FENCE FABRIC WILL NOT BE ALLOWED.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. SILT FENCE MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AROUND INLET AFTER SILT FENCE IS REMOVED WHEN REMOVAL IS APPROPRIATE

IP-3

STORMWATER ENTERPRISE

SUMP INLET PROTECTION

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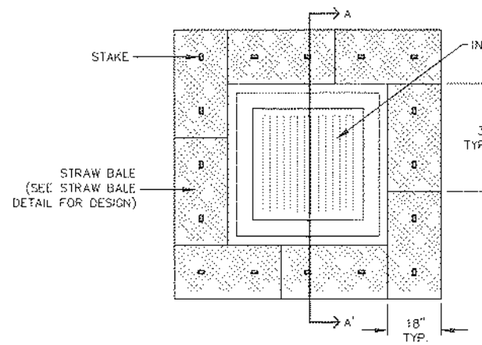
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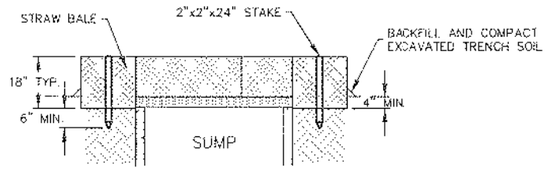
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31ST ST & FONTANERO ST EROSION CONTROL DETAILS				Project No./Code
				Project #STM-REV25-0629
Designer: ETP	Structure Numbers	CSG-E.00-10.57A		Bid #__-__
Detailer: BKM				Sheet Number 31
Sheet Subset GEC-DETAIL	Subset Sheets: 5 of 8			

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STRAW BALE SUMP INLET PROTECTION PLAN



SECTION A-A'

INSTALLATION NOTES

1. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH THE ENDS OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
2. STRAW BALES SHALL CONSIST OF CERTIFIED WEED FREE STRAW OR HAY. LOCAL JURISDICTIONS MAY REQUIRE PROOF THAT BALES ARE WEED FREE.
3. STRAW BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF STRAW OR HAY AND WEIGH NOT LESS THAN 35 POUNDS.
4. STRAW BALE DIMENSIONS SHALL BE APPROXIMATELY 36"x18"x18".
5. A UNIFORM ANCHOR TRENCH SHALL BE EXCAVATED TO A DEPTH OF 4". STRAW BALES SHALL BE PACED SO THAT THE BINDING TWINE IS ENCOMPASSING THE VERTICAL SIDES OF THE BALE(S).
6. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKED SHALL BE 2"x2"x24 (MIN.)". WOODEN STAKES SHALL BE DRIVEN A MINIMUM OF 6" INTO THE GROUND.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. STRAW BALES MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AROUND INLET AFTER STRAW BALES ARE REMOVED WHEN REMOVAL IS APPROPRIATE.
5. STRAW BALES SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN OR DAMAGED BEYOND REPAIR.

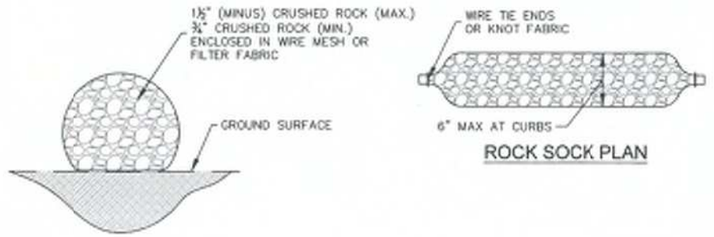
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STORMWATER ENTERPRISE

SUMP INLET PROTECTION

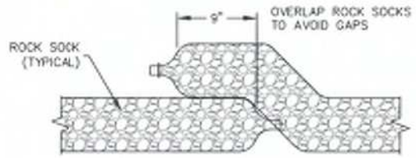
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ROCK SOCK SECTION

ROCK SOCK PLAN



ROCK SOCK OVERLAP

GRADATION TABLE

	MASS PERCENT PASSING SQUARE MESH SIEVES
	No. 4
2"	100
1½"	90–100
1"	20–55
¾"	0–15
⅜"	0–5

MATCHES SPECIFICATIONS FOR No. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M-43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES

INSTALLATION NOTES

1. CRUSHED ROCK SHALL BE BETWEEN MAX. 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET AND MIN. ¾" CRUSHED ROCK.
2. WIRE MESH SHALL HAVE OPENINGS SMALLER THAN THE SMALLEST SIZE ROCK.
3. WIRE MESH SHALL BE SECURED USING 'HOG RINGS' OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED BEYOND REPAIR.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE DEPTH REACHES ½ OF THE HEIGHT OF THE ROCK SOCK.
4. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL DISTURBED AREA IS STABILIZED.
5. PERMANENTLY STABILIZE AREA AFTER ROCK SOCKS HAVE BEEN REMOVED.

RS

STORMWATER ENTERPRISE

ROCK SOCK

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31ST ST & FONTANERO ST
EROSION CONTROL DETAILS

Designer: ETP
Detailer: BKM
Sheet Subset GEC-DETAIL
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 6 of 8

Project No./Code
Project #STM-REV25-0629
Bid #__-__
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SEEDING & MULCHING

ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWMP.

SOIL PREPARATION

1. IN AREAS TO BE SEEDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.
2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.
3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENDIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS.
4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE.

SEEDING

1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.
2. SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE
   - SEED DEPTH MUST BE ¼ TO ½ INCHES WHEN DRILL-SEEDING IS USED
3. BROADCAST SEEDING OR HYDRO-SEEDING WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED.
   - SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLION DRILL OR HYDRO-SEEDING
   - BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL

MULCHING

1. MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.
2. MULCHING REQUIREMENTS INCLUDE:
   - HAY OR STRAW MULCH
     - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER.
     - CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.
     - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1.
   - HYDRAULIC MULCHING
     - HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED.
     - IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION.
     - WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE.
   - EROSION CONTROL BLANKET
     - EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.

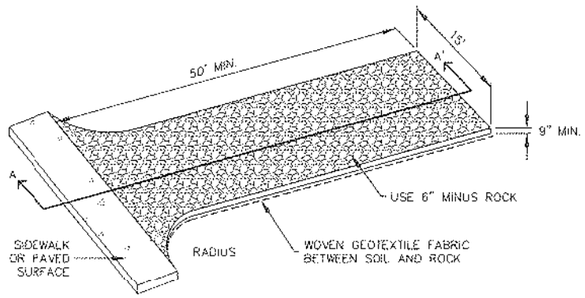
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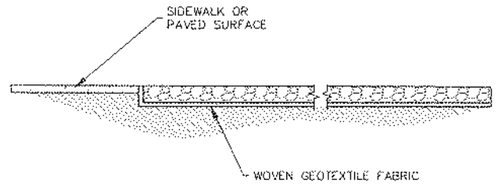
SEEDING & MULCHING

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AGGREGATE VEHICLE TRACKING CONTROL



SECTION A-A'

INSTALLATION NOTES

1. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHOULD BE LOCATED AT ALL POINTS WHERE VEHICLES EXIT THE CONSTRUCTION SITE TO ADJACENT ROADWAY.
2. STABILIZED CONSTRUCTION ENTRANCE/EXITS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. RADIUS MUST BE ADEQUATE FOR INTENDED CONSTRUCTION VEHICLE TURNING.
4. ROCK SHOULD CONSIST OF 6" MINUS ROCK.
5. INSTALL CONSTRUCTION FENCE ON BOTH SIDES OF VEHICLE TRACKING CONTROL PAD WHEN NEEDED OR REQUIRED BY INSPECTOR.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. SEDIMENT TRACKED ONTO THE ADJACENT ROAD SHALL BE REMOVED DAILY, BY SWEEPING OR SHOVELING, AND NEVER WASHED DOWN STORM DRAINS.
3. ROUGHEN, REPLACE AND/OR ADD ROCK AS NEEDED TO MAINTAIN CONSISTENT DEPTH AND TO PREVENT SEDIMENT TRACKING ONTO ADJACENT STREET.
4. PERMANENTLY STABILIZE AREA AFTER VEHICLE TRACKING CONTROL IS REMOVED.

VTC

STORMWATER ENTERPRISE

VEHICLE TRACKING CONTROL

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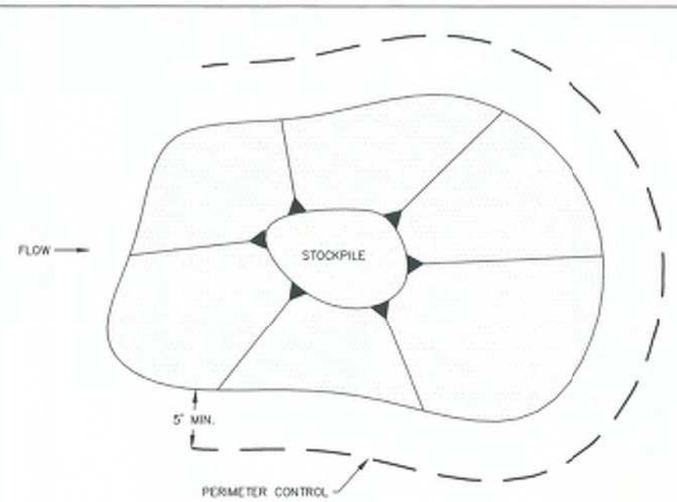
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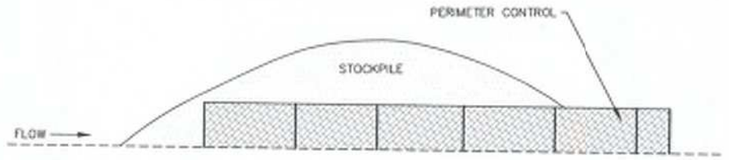
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STOCKPILE PROTECTION PLAN



STOCKPILE PROTECTION ELEVATION

INSTALLATION NOTES

1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNGRADIENT SIDE. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
2. FOR STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.

SP

STORMWATER ENTERPRISE

STOCKPILE PROTECTION

APPROVED: ENGINEER MANAGER

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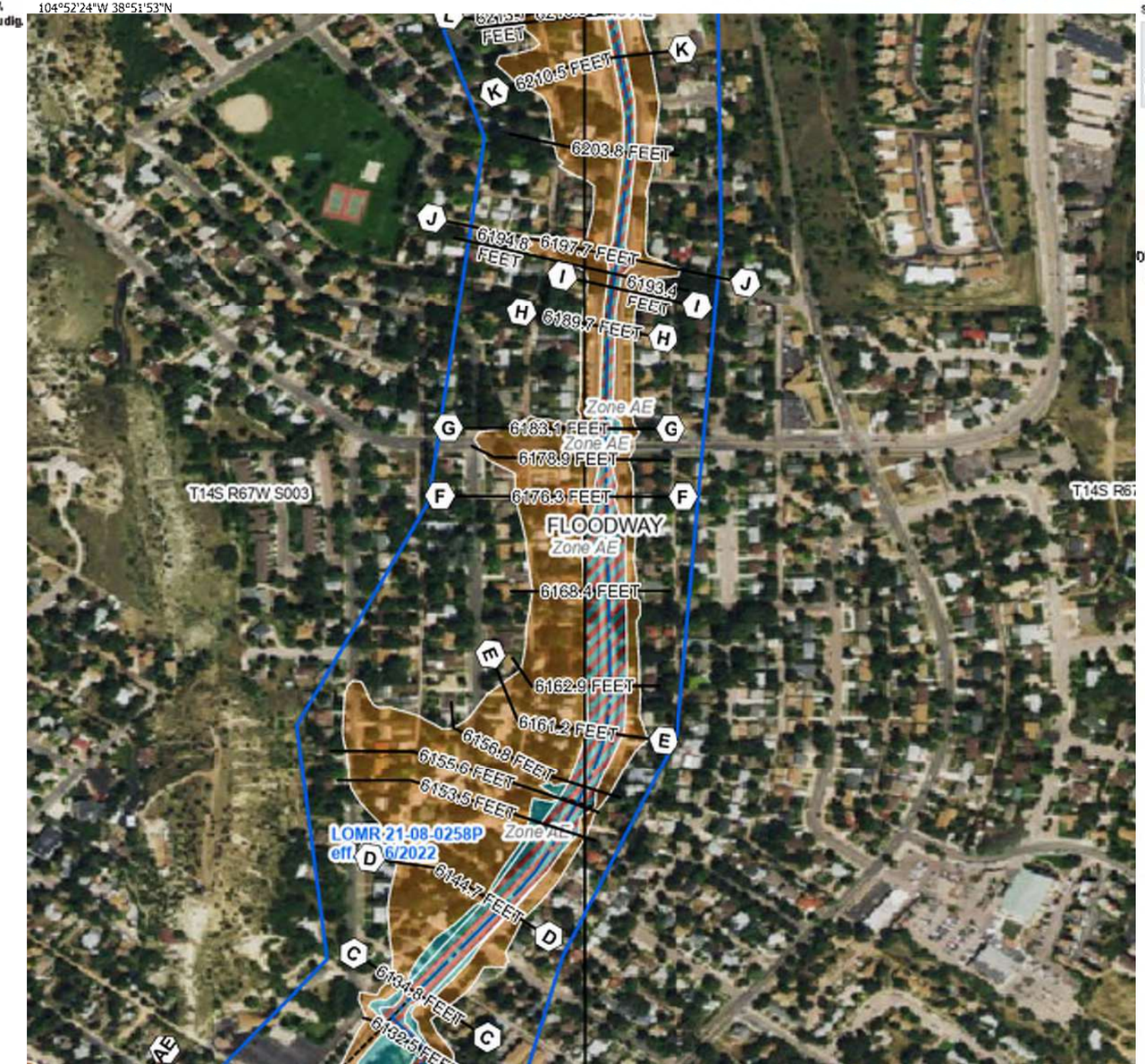
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Detailer: BKM
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Sheet Number 34

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National Flood Hazard Layer FIRMette

104°52'24"W 38°51'53"N



Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/19/2025 at 5:50 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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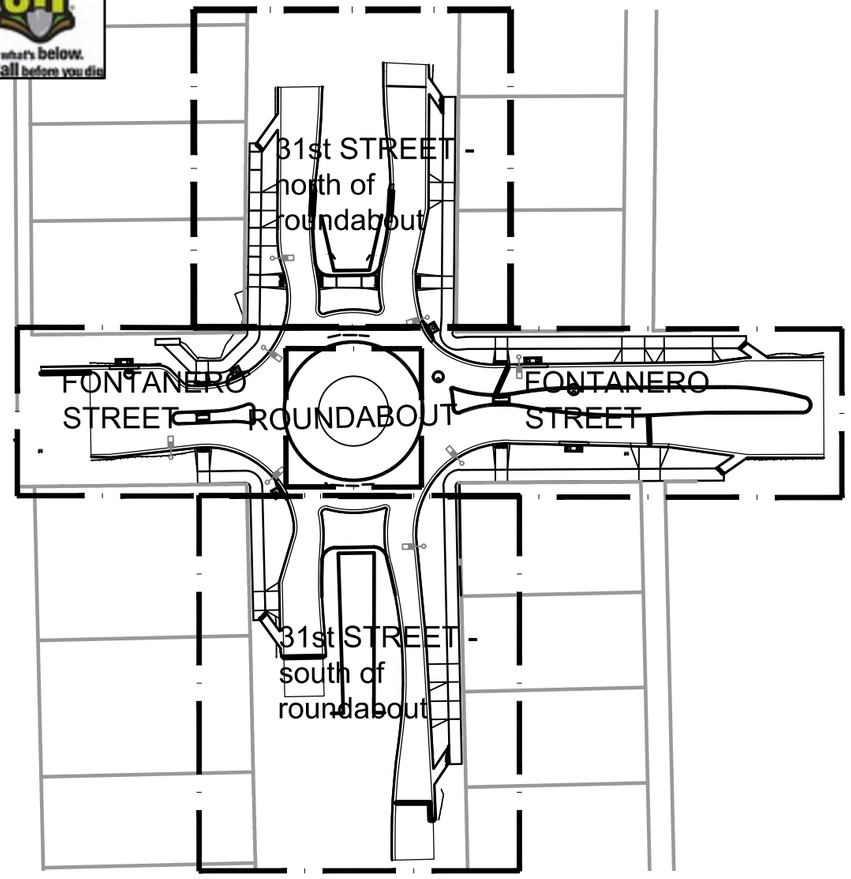
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31ST ST & FONTANERO ST
100-YEAR FLOODPLAIN MAP

Designer: ETP
Detailer: TAH
Sheet Subset: FEMA
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 1 of 1

Project No./Code
Project #STM-REV25-0629
Bid #__-__
Sheet Number 35



Landscape Sheet Layout Diagram

1' = 100'

LANDSCAPE SHEET LEGEND

L1.0 LANDSCAPE COVER SHEET
L2.0 TREE PROTECTION PLAN
L3.0 STONE BLOCK BAND DETAILS
L4.0 SOIL AMENDMENT PLAN
L5.0 PLANTING NOTES and DETAILS
L5.1 PLANT LIST
L5.2 TREE PLANTING PLAN
L5.3 GROUNDPLANE PLANTING PLAN

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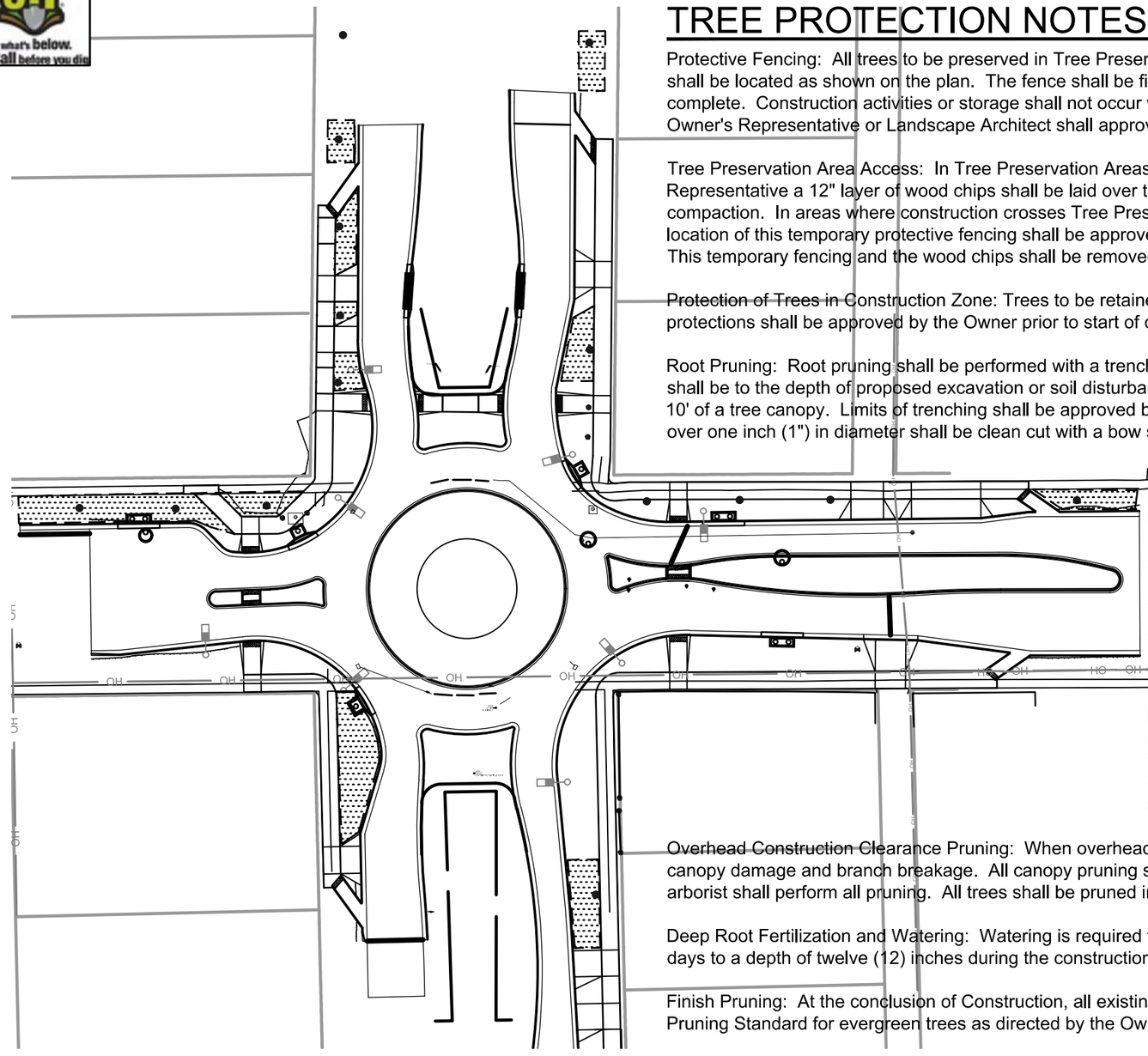
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31st Street Roundabout
Landscape Cover Sheet

Designer: PJBM
Detailer: PJBM
Sheet Subset:
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: of

TAPIS 25001R
Project #____-___
Bid #__-__
Sheet Number L1.0



TREE PROTECTION NOTES for TREE PRESERVATION AREAS

Protective Fencing: All trees to be preserved in Tree Preservation Areas shall be protected by 6 foot chain link fencing supported by metal stakes. The fence shall be located as shown on the plan. The fence shall be firmly anchored into the ground and shall remain upright and intact until all construction activity is complete. Construction activities or storage shall not occur within these protected areas. The contractor shall stake the protective fencing location. The Owner's Representative or Landscape Architect shall approve the location of the protective fencing on site prior to the start of any site work.

Tree Preservation Area Access: In Tree Preservation Areas where construction traffic is unavoidable as concurred by the Landscape Architect and Owner's Representative a 12" layer of wood chips shall be laid over the existing grade under the canopies of preserved trees to allay rutting and slightly reduce soil compaction. In areas where construction crosses Tree Preservation Areas, protective fencing shall be installed to delineate the construction corridor. The location of this temporary protective fencing shall be approved on site by the Owners representative or Landscape Architect prior to the start of construction. This temporary fencing and the wood chips shall be removed upon completion of construction in these areas.

Protection of Trees in Construction Zone: Trees to be retained in construction areas shall be protected from damage and root zone compaction. Methods of protections shall be approved by the Owner prior to start of construction.

Root Pruning: Root pruning shall be performed with a trencher such as a telephone cable puller or a "ditch witch" prior to adjacent excavation. The trenching shall be to the depth of proposed excavation or soil disturbance. The contractor shall stake the limit of root pruning where needed in construction areas within 10' of a tree canopy. Limits of trenching shall be approved by the Owners Representative or Landscape Architect prior to any trenching in the field. All roots over one inch (1") in diameter shall be clean cut with a bow saw or similar cutting device to provide a clean cut on the root.

Silt Damage: Silt from run-off settling over the root system of a tree also effectively suffocates the roots by filling and clogging the vital air spaces in the soil. A silt fence attached to the Tree Protection Fencing shall provide siltation control at Tree Preservation Areas. On slopes, the silt fence can be limited to the uphill side of the Tree Preservation Area. Silt control shall be staked, approved and installed before construction begins.

Contractor's Penalty for Negligence: The Owner's Representative primarily and the Landscape Architect secondarily shall monitor the construction site. If, in their opinion, the general contractor, his agents, employees, sub-contractors or licensees are exercising procedures that are determined to be detrimental to the vitality of the trees that are to be preserved, the Owner's Representative or Landscape Architect shall advise the client to issue a "STOP WORK ORDER". If, in the opinion of the landscape architect, City Forester or licensed arborist, the general contractor has damaged a tree beyond its ability to heal, the general contractor shall be required to reimburse the owner at a rate of $1,000.00 per caliper inch for each tree that is damaged or destroyed due to the general contractor's negligent operations. The general contractor shall be responsible for the cost of remedial maintenance of or removal of any damaged tree.

Overhead Construction Clearance Pruning: When overhead equipment will impact tree canopies a licensed arborist shall prune the canopies to prevent canopy damage and branch breakage. All canopy pruning shall be approved by the City Forester and Landscape Architect prior to pruning. A licensed arborist shall perform all pruning. All trees shall be pruned in accordance with the N.A.A. Class I Fine Pruning Standards.

Deep Root Fertilization and Watering: Watering is required for all trees in Tree Preservation Areas. Trees to remain shall be watered every fourteen (14) days to a depth of twelve (12) inches during the construction period or, more frequently if recommended by the City Forester or the Landscape Architect.

Finish Pruning: At the conclusion of Construction, all existing trees to remain shall be pruned in accordance with the N.A.A. Class I Fine Pruning Standard for evergreen trees as directed by the Owners Representative. A licensed arborist shall perform all pruning.

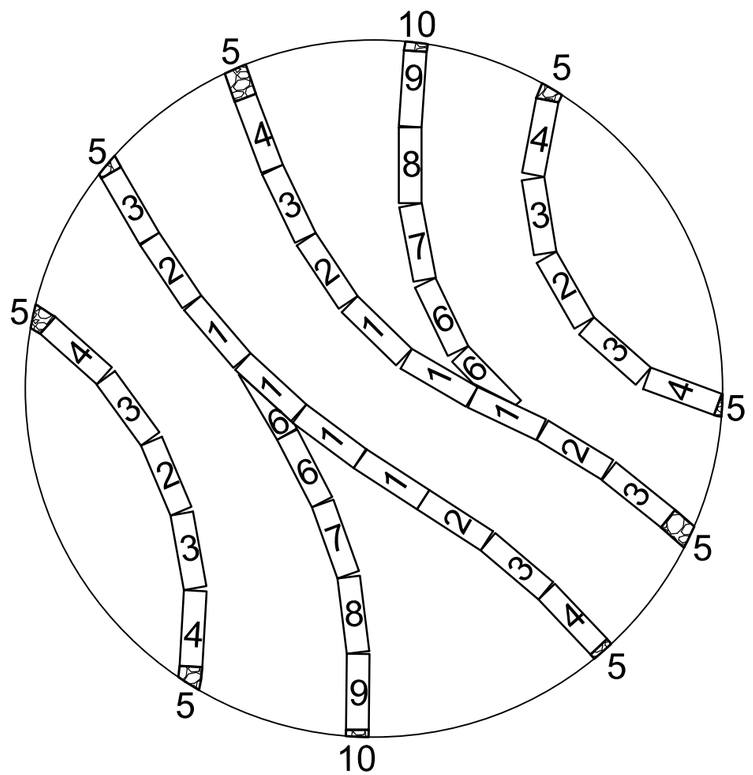
Tree Protection Fencing

1' = 60'

TAPS associates
Colorado Springs
719.593.1540

Print Date: 11/11/2025		Sheet Revisions			WILSON & COMPANY		31st Street Roundabout	TAPIS 25001R
File Name:		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:	Tree Protection Plan	Project #____-___
Horiz. Scale: Shown On Sheet	Vert. Scale:					Revised:	Designer: PJBM	Structure Numbers: CSG-E.00-10.57A	Bid #__-__
Unit Information	Unit Leader					Void:	Detailer: PJBM		Sheet Number L2.0
							Sheet Subset:	Subset Sheets: of	

R26-T008MZ



STONE BLOCK BAND SCHEDULE

Red Sandstone Blocks

block symbol	size (hgt x width x length in inches)	qty
1	30x18x60	7
2	24x18x60	6
3	18x18x60	8
4	12x18x60	6
5	1 ½" gravel	3.5 cy

RED SANDSTONE BLOCK SOURCE:

C&C Sand and Stone Company OR
719.577.990 www.ccsand.com
Lyons Sandstone Quarry & Fabrication - or approved equal
303.823.5659 lyonssandstone.com
#5 STONE MULCH - 1 ½" Royal Granite or approved equal
C&C Sand and Stone Company
719.577.990 www.ccsand.com

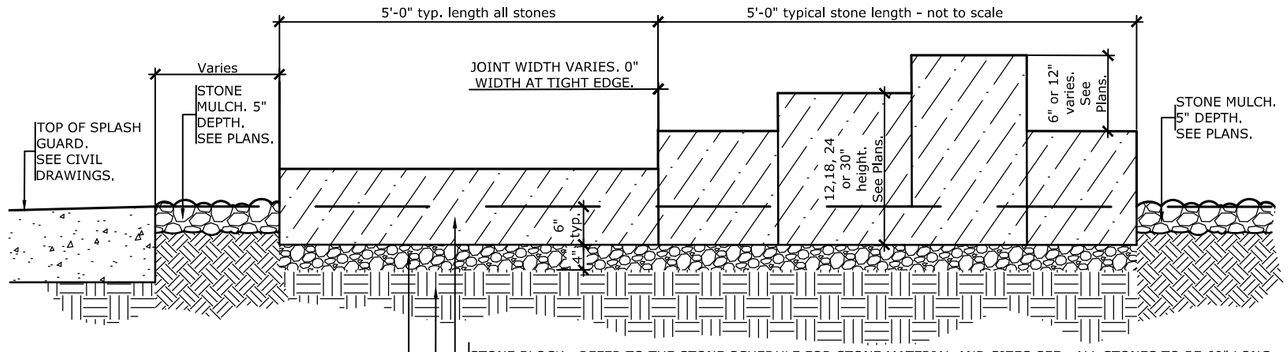
Siloam Stone Blocks

block symbol	size (hgt x width x length in inches)	qty
6	30x18x60	4
7	24x18x60	2
8	18x18x60	2
9	12x18x60	2
10	1 ½" gravel	0.25 cy

SILOAM STONE BLOCK SOURCE:

SILOAM STONE, INC. - or approved equal
719.275.4275 www.siloamstone.com
#10 STONE MULCH - 1 ½" Saddleback Swirl or approved equal
C&C Sand and Stone Company
719.577.990 www.ccsand.com

Contain all gravel areas with brown steel edging installed per manufacturer's specifications.



STONE BLOCK - REFER TO THE STONE SCHEDULE FOR STONE MATERIAL AND SIZES SEE. ALL STONES TO BE 60" LONG AND 18" WIDE; HEIGHT VARIES PER STONE SCHEDULE. ANGLE JOINTS BETWEEN STONE TO ACHIEVE CURVED LAYOUT PER THE PLAN. FIELD FIT (CHISELING WHERE NECESSARY) TO HAND FIT BEVEL OF 2 SILOAM STONE BLOCKS (#6) WITH A MAXIMUM 2" JOINT OPENING ALONG EACH JOINT; THIS WILL TRANSITION TO THE RED SANDSTONE BAND.

ALL VISIBLE FACES TO BE SPLIT FINISH, SHOWING NO VISIBLE SAWCUTS, DRILL MARKS OR OBVIOUS MACHINING MARKS. ALL STONE TO EXTEND A 6" BELOW LEVEL FINISHED GRADE.

STONE BAND LAYOUT TO BE APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. STONE BLOCK BANDS TO BE CENTERED IN THE PLANTING CIRCLE - LAYOUT STONE BLOCKS SO THAT STONE MULCH AT EACH END OF EACH STONE BAND SHALL BE EQUAL IN LENGTH.

Stone Block Bands in Roundabout

1' = 10'

Stone Block Bands in Roundabout Detail

1' = 10'

TAPIS associates
Colorado Springs
719.593.1540

Print Date: 11/11/2025	Sheet Revisions		
File Name:	Date:	Comments	Init.
Horiz. Scale: Shown On Sheet **Vert. Scale:**			
Unit Information **Unit Leader**			

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Colorado Springs, CO 80919
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FAX: 719-520-0108

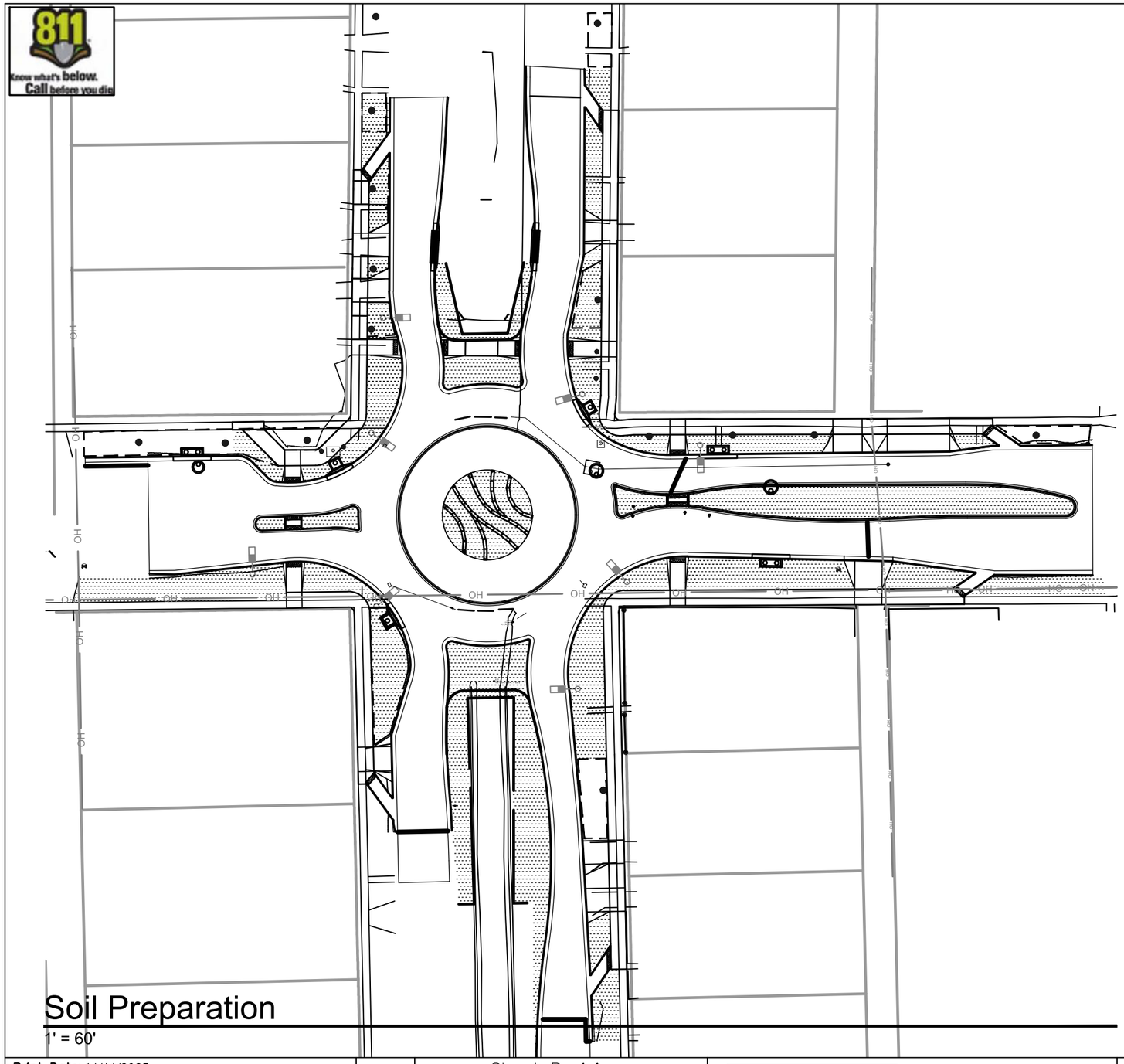
No Revisions:
Revised:
Void:

31st Street Roundabout

Stone Block Band Details

Designer: PJBM
Detailer: PJBM
Sheet Subset:
Structure Numbers CSG-E.00-10.57A
Subset Sheets: of

TAPIS 25001R
Project #____-___
Bid #__-__
Sheet Number L3.0



Soil Preparation

1" = 60'

SOIL PREP and AMENDMENT NOTES

GENERAL

1. Contractor shall mark and Owner's Representative shall verify the correct location of all underground utilities in the field prior to commencing work.
2. Amended imported topsoil shall be used to establish final grades within landscape medians.
3. Grade topsoil to eliminate rough, low, or soft areas and to insure positive drainage.
4. Contractor to verify positive drainage in all areas to be planted.
5. Irrigation sleeves shall be placed as indicated on the Irrigation Plans.
6. Contractor shall not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Owner's Representative for decision. The Contractor shall assume full responsibility for all necessary revision due to failure to give such notification.
7. Refer to details and notes for staking method, soil preparation, plant pit dimensions and backfill requirements.

SUBSOIL PERCOLATION and DRAINAGE

1. Testing and application as indicated on the Civil Drawings.

SOIL AMENDMENT

2. Topsoil shall be fertile, agricultural soil imported to the site, free of subsoil, clay, impurities, plants, weeds, and roots. The minimum pH value of 5.4 and a maximum of 7.0.
4. Install Subsoil Percolation and Drainage as required.
5. In the center of the Roundabout, till subsoil in areas to be planted to a depth of 8". Amend subsurface areas to be planted and seeded with 3cy/1000sf composted manure incorporated to a depth of 8". Throughout the roundabout planting bed, topsoil to be placed to a minimum depth of 20". Establish topsoil height 2" below top of splash guard or top of curb at all edges. Create a topsoil mound rising from the top of splash guard to the roundabout center 12" above the top of splash guard.
6. Except in Tree Preservation Areas, till subsoil in areas to be planted to a depth of 8". Amend subsurface areas to be planted and seeded with 3cy/1000sf composted manure incorporated to a depth of 8".
7. In Tree Preservation Areas, till subsoil to a depth of 4". Amend subsurface areas to be planted or seeded with 2 cy/1000sf composted manure incorporated to a depth of 4".
8. All medians, parkways, roundabout and private property areas to be planted or restored shall receive 2" depth of premium compost prior to planting. This application will establish prime conditions for beneficial mycorrhizal fungi development. Do not overwork the soil. This 2" of compost will be adequately incorporated during planting.

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Colorado Springs
719.593.1540

Print Date: 11/11/2025	Sheet Revisions		
File Name:	Date:	Comments	Init.
Horiz. Scale: Shown On Sheet Vert. Scale:			
Unit Information Unit Leader			

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Colorado Springs, CO 80919
Phone: 719-520-5800
FAX: 719-520-0108

No Revisions:
Revised:
Void:

31st Street Roundabout

Soil Amendment Plan

Designer: PJBM	Structure Numbers	CSG-E.00-10.57A	
Detailer: PJBM			
Sheet Subset:	Subset Sheets:	of	

TAPIS 25001R

Project #____-___

Bid #__-__

Sheet Number L4.0

Planting Notes

GENERAL

a. All plant material shall conform to the sizes given in the plant list and shall be nursery grown in accordance with the "American Standard for Nursery Stock", latest edition. www.anla.org

b. All planting shall be in accordance with standard American Association of Nurserymen procedures and specifications.

c. Contractor shall mark and Owner's Representative shall verify the correct location of **all** underground utilities in the field prior to installation of any plant materials.

d. Contractor shall be responsible for the safety of those associated with the work, pedestrians and the general public throughout the duration of the contract.

e. Quantities shown on plant list are for the Contractor's convenience only and are not guaranteed to be accurate. In the event of a discrepancy between quantities shown on the plan and quantities shown on the plant list, the quantities on the plan shall apply.

f. Contractor shall not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Owner's Representative for decision. The Contractor shall assume full responsibility for all necessary revision due to failure to give such notification.

g. Contractor is responsible for installing all landscape shown on this plan. Any changes from the approved plans may require approval from the City of Colorado Springs.

h. Contractor shall provide a two year warranty and full landscape maintenance on all plant material, mulch, workmanship and to include two years of establishment watering. Replacement plant material shall be of the same species and size as the decayed or dead plant material. Replacements shall occur in the two spring and two fall planting seasons of the 2 year warranty period and prior to final acceptance. If needed, individual plants may require 2 or 5 replacements. All maintenance should be in accordance with standards specified in the "ALCC Specifications Handbook" - latest edition.

i. Contractor shall refer to the specifications provided for this project.

j. Contractor is responsible for contacting the landscape architect for all required inspections. Provide at least 48 hours notice to schedule inspections. Required inspections include planting bed layout, landscape layout, plant material verification and placement inspection prior to planting, punch list inspection, and a landscape final inspection.

PLANTING

a. Obtain approval from Landscape Architect or Owner's Representative before making any substitutions or changes.

b. Plant material location to be staked in the field and approved by the Landscape Architect or Owner's Representative prior to planting.

c. All shrubs and groundcovers shall be triangularly spaced, with spacing as shown in the drawings, unless otherwise noted in the planting legend.

d. Planting shall not be started until final subgrade has been established and approved by the Civil Engineer, Landscape Architect and Owner's Representative.

e. Under no condition shall work be done if the weather or soil conditions are not satisfactory.

f. Place plants for best appearance for review and final orientation by Landscape Architect or Owner's Representative.

g. Refer to details and notes for staking method, soil preparation, plant pit dimensions and backfill requirements.

MULCH and EDGING

h. All areas are to receive 4" depth shredded wood mulch. All mulched beds are to be sprayed with water after installation to help mulch mat down. All trees to receive 5' diameter wood mulch ring.

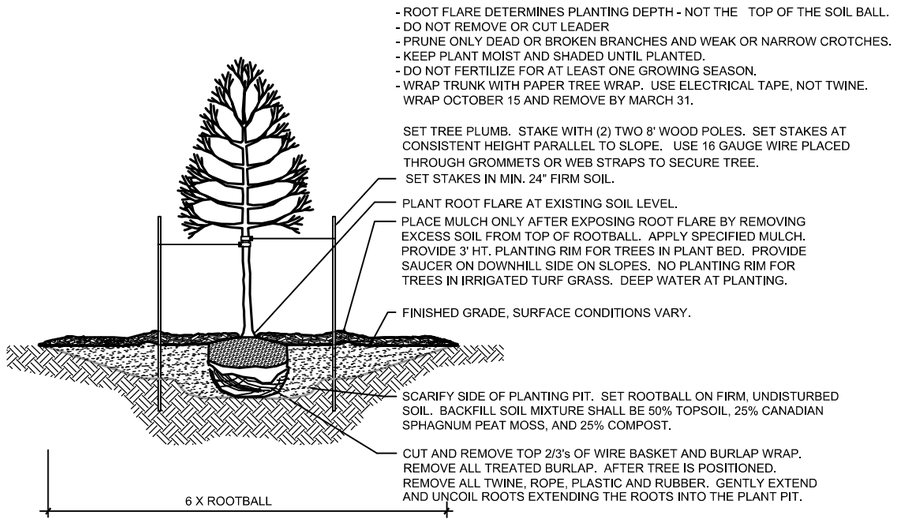
i. All areas noted to receive stone mulch shall include nonwoven geotextile and 1.5-3" diameter river rock stone mulch to 5" depth, unless otherwise noted on the plans.

j. Stone Block Band features in the roundabout shall be per the detail on Sheet L3.0.

FINISHING

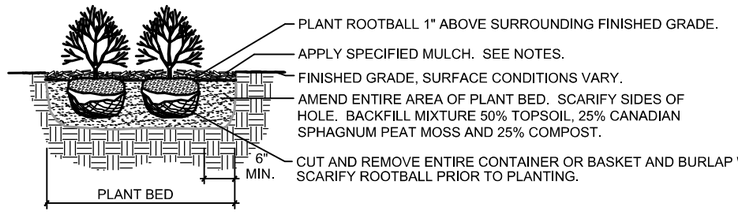
k. All disturbed areas shall be fine graded and finished as noted on the Plan.

l. After the Warranty Period, the Property Owner and any future Owners are responsible for the proper landscape and irrigation maintenance of this site and any rights-of-way between the curb and property lines of the site. Maintenance of this site includes, but is not limited to: hand watering to maintain the plant material, landscape weeding, mowing, seeding, fertilization, wood mulch, and rock cover replacement, pruning, and plant material replacement. All maintenance should be in accordance with standards specified in the "ALCC Specifications Handbook" - latest edition.



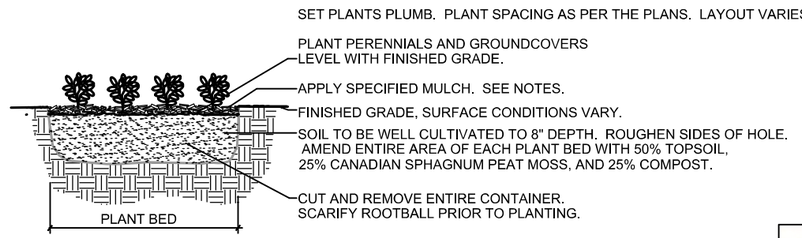
Tree Planting Detail

no scale section



Shrub Planting Detail

no scale section



Perennial Planting Detail

no scale section

TAPS
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Print Date: 11/11/2025		Sheet Revisions				31st Street Roundabout	TAPIS 25001R
File Name:		Date:	Comments	Init.	No Revisions:	Planting Notes and Details	Project #____-___
Horiz. Scale: Shown On Sheet	**Vert. Scale:**				Revised:	Designer: PJBM / Structure Numbers: CSG-E.00-10.57A	Bid #__-__
Unit Information	Unit Leader				Void:	Detailer: PJBM	Sheet Number L5.0
						Sheet Subset: / Subset Sheets: of	

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Colorado Springs, CO 80919
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PLANT LIST

DECIDUOUS TREES

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE	NOTES
CC	4	Corylus colurna Turkish Filbert	2.0" cal.	Full; Straight leader; B&B
CA	2	Crataegus ambigua Russian Hawthorn	6' hgt.	Full; B&B 5-7 min. 1 1/2" cal. stems
CCIC	7	Crataegus crus-galli inermis CRUSADER Thornless Coskspur Howthorn	6' hgt.	Full; B&B single trunk
CO	2	Celtis occidentalis Hackberry Tree	2.0" cal.	Full; Straight leader; B&B
GE	2	Gymnocladus dioica 'Espresso' Kentucky Coffeetree (male)	2.0" cal.	Full; Straight leader; B&B
PN	6	Prunus nigra Princess Kay Plum	2.0" cal.	Full; Straight leader; B&B
PSP	8	Prunus SUCKER PUNCH Sucker Punch Chokecherry	2" cal	Full; B&B single stem
QM	1	Quercus macrocarpa Bur Oak	2.0" cal.	Full; Straight leader; B&B single trunk
QMC	2	Quercus muehlenbergii Chickapin Oak	2.0" cal.	Full; Straight leader; B&B single trunk
QRR	4	Quercus robur 'Rosehill' Rosehill Columnar English Oak	2.0" cal.	Full; Straight leader; B&B 2' branching height
UM	3	Ulmus davidiana var. japonica 'Morton' Accolade American Elm	2.0" cal.	Full; Straight leader; B&B

GROUNDPLAN PLANTS

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE	NOTES
cxcFC	107	Caryopteris x clandonensis 'First Choice' First Choice Blue Mist Spirea	5 gal. 18" hgt. & spd.	Full; Container
GfSB	105	Festuca idahoensis 'Siskiyou Blue' Siskiyou Blue Idaho Fescue	1 gal	Container; Plant 15" o.c.
jhH	106	Juniperus horizontalis 'Hughes' Hughes Juniper	5 gal. 24-30" spd.	Full; Container
jhY	15	Juniperus horizontalis 'Youngstown Compacta' Andorra Youngstown Juniper	5 gal. 24-30" spd.	Full; Container
GbBA	328	Bouteloua gracilis 'Blonde Ambition' Blond Ambition Gramma	1 gal	Full Container, Plant 20" o.c. max.
nxf	3,117	Nepeta x faassenii Faassen's Catmint	4" pots	Container; Plant 18" o.c.
ps	247	Penstemon strictus Rocky Mountain Penstemon	1 gal.	Container, Plant 12" o.c.
yb	33	Yucca baccata Banana Yucca	5 gal. 24-30" hgt.	Full; Container
yg	72	Yucca glauca Narrow-leaf Yucca or Soapweed	5 gal. 24-30" hgt.	Full; Container

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Print Date: 11/11/2025
File Name:
Horiz. Scale: Shown On Sheet Vert. Scale:
Unit Information Unit Leader

Sheet Revisions

Date:	Comments	Init.

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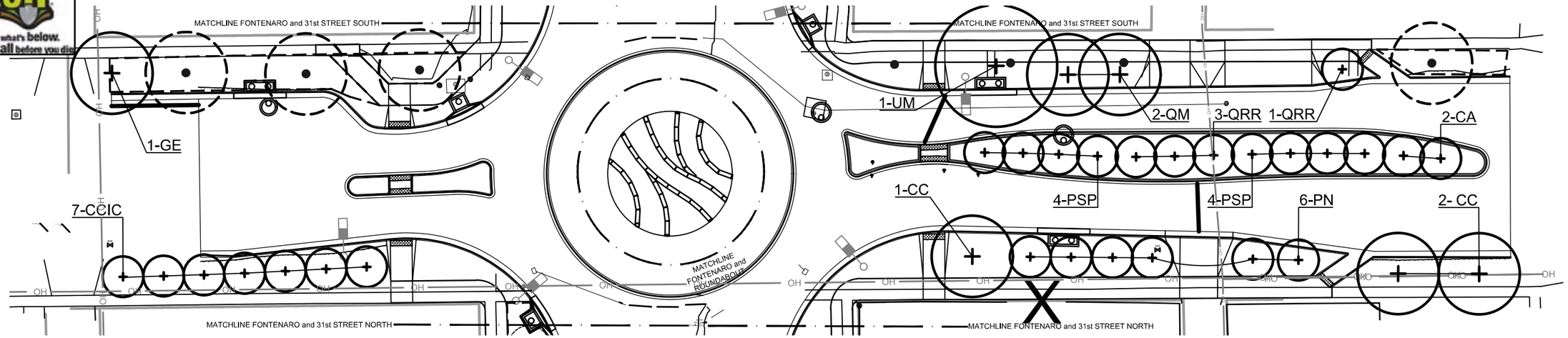
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Revised:
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31st Street Roundabout
Plant List

Designer: PJBM
Detailer: PJBM
Sheet Subset:
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: of

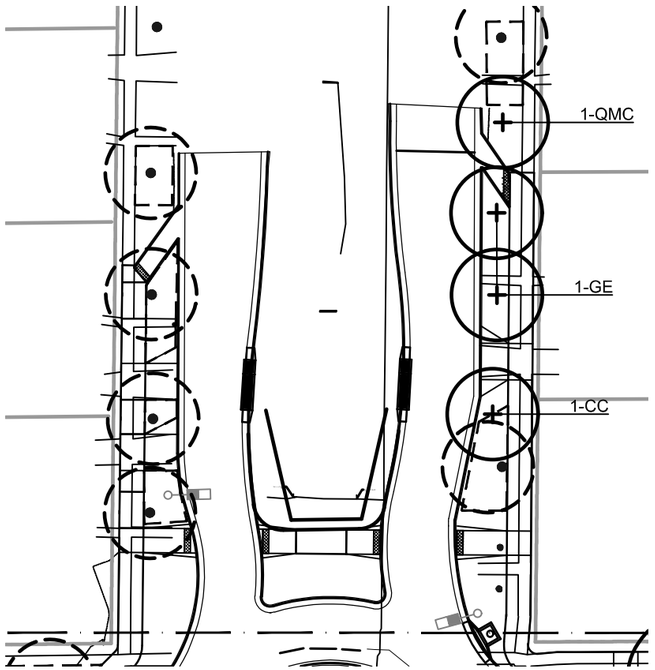
TAPIS 25001R
Project #____-___
Bid #__-__
Sheet Number L5.1

R26-T008MZ



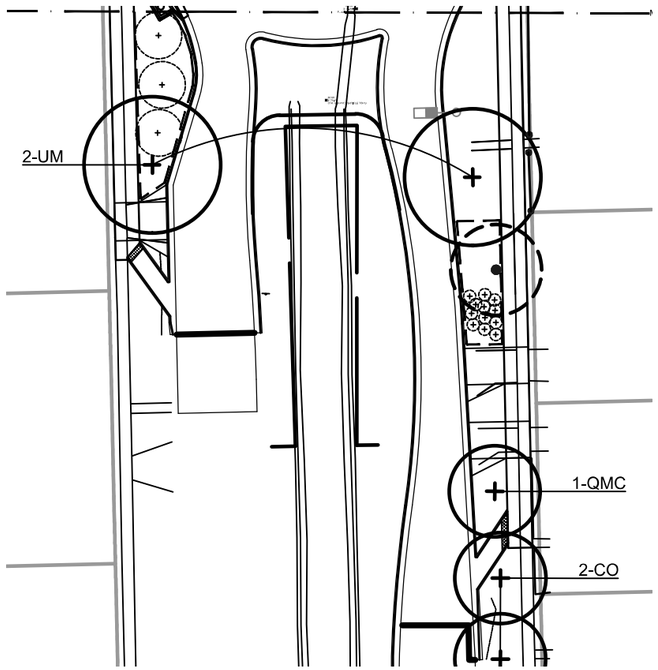
FONTANERO STREET

1' = 40'



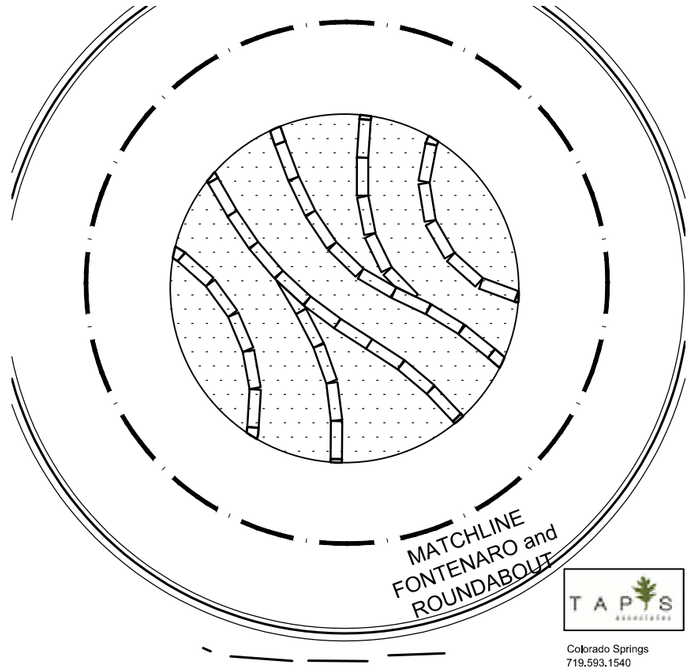
N 31st STREET-north of roundabout

1' = 50'



N 31st STREET-south of roundabout

1' = 50'

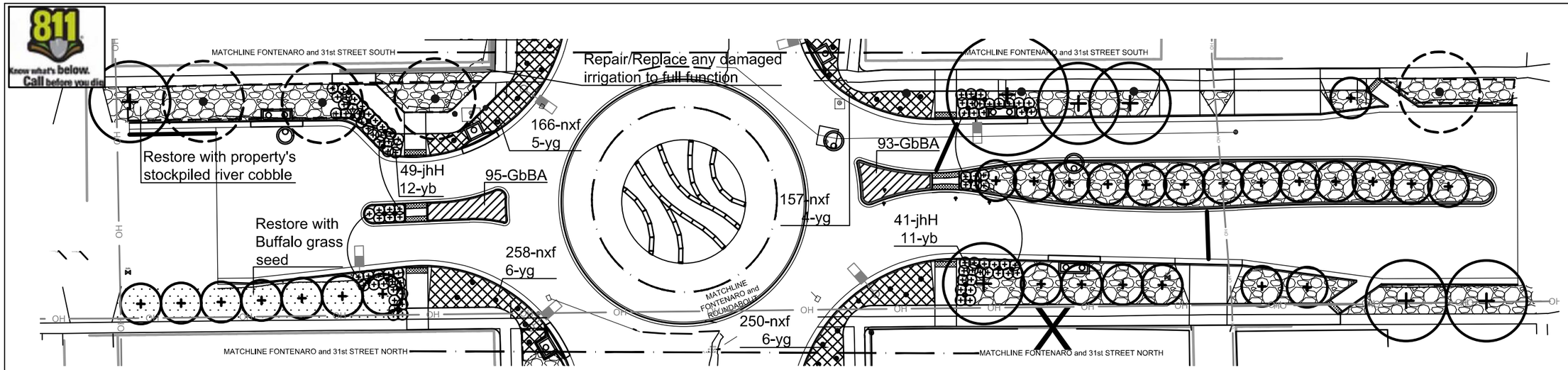


N 31st STREET - roundabout

1' = 20'

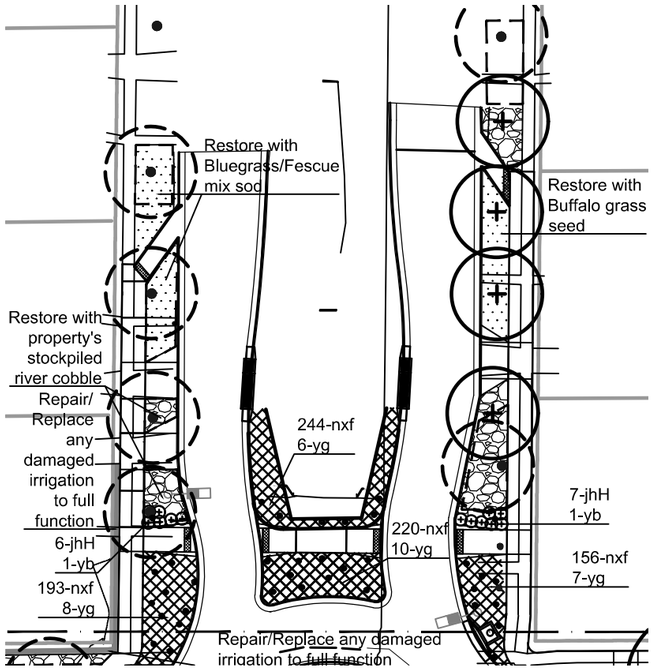
TAPS associates
Colorado Springs
719.593.1540

Print Date: 11/11/2025		Sheet Revisions			WILSON & COMPANY		31st Street Roundabout	TAPIS 25001R
File Name:		Date:	Comments	Init.	COLORADO SPRINGS OLYMPIC CITY USA	No Revisions:	Tree Planting Plan	Project #____-___
Horiz. Scale: Shown On Sheet Vert. Scale:					5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	Revised:	Designer: PJBM	Structure Numbers: CSG-E.00-10.57A	Bid #__-__
Unit Information Unit Leader						Void:	Detailer: PJBM		Sheet Number L5.2
							Sheet Subset:	Subset Sheets: of	



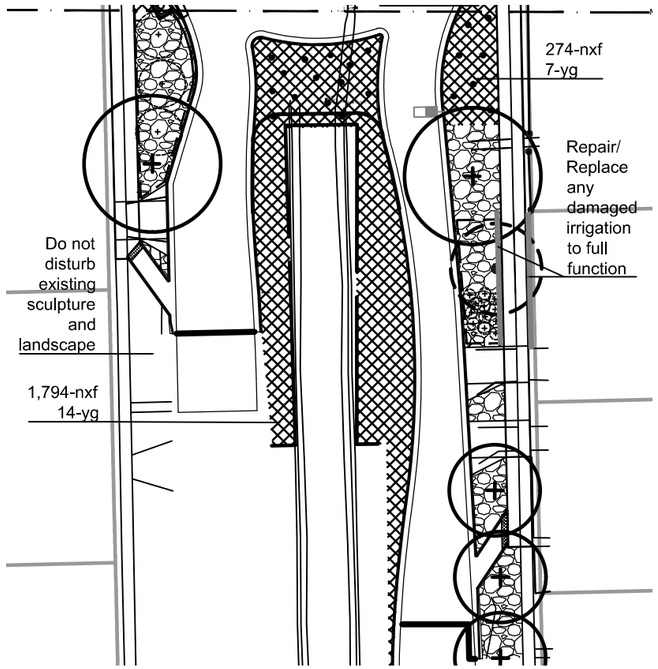
FONTANERO STREET

1' = 40'



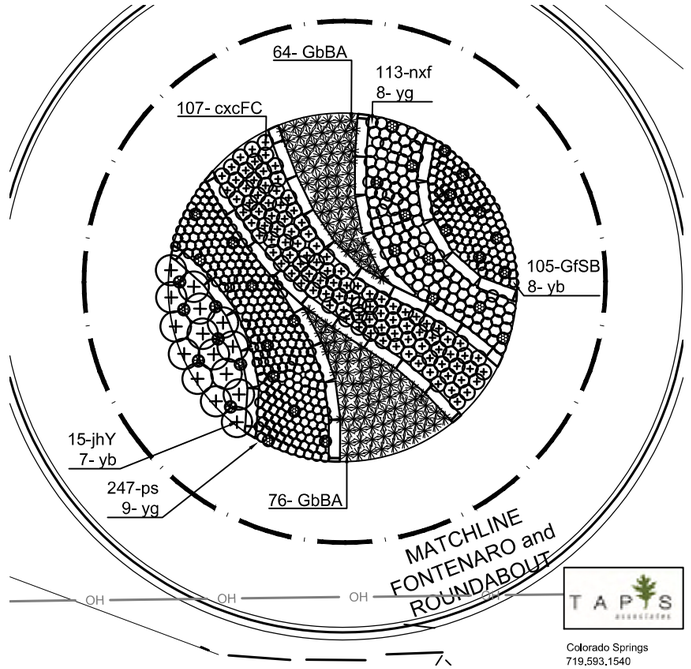
N 31st STREET-north of roundabout

1' = 50'



N 31st STREET-south of roundabout

1' = 50'



N 31st STREET - roundabout

1' = 20'

Print Date: 11/11/2025		Sheet Revisions			WILSON & COMPANY		31st Street Roundabout	TAPIS 25001R
File Name:		Date:	Comments	Init.	5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:	Groundplane Planting Plan	Project #____-___
Horiz. Scale: Shown On Sheet	**Vert. Scale:**				COLORADO SPRINGS OLYMPIC CITY USA	Revised:	Designer: PJBM	Structure Numbers: CSG-E.00-10.57A	Bid #__-__
Unit Information	**Unit Leader**					Void:	Detailer: PJBM		Sheet Number L5.3
							Sheet Subset:	Subset Sheets: of	

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
CALL 811
(or 1-800-922-1987)
UTILITY NOTIFICATION CENTER OF COLORADO (UNCC)
www.uncc.org

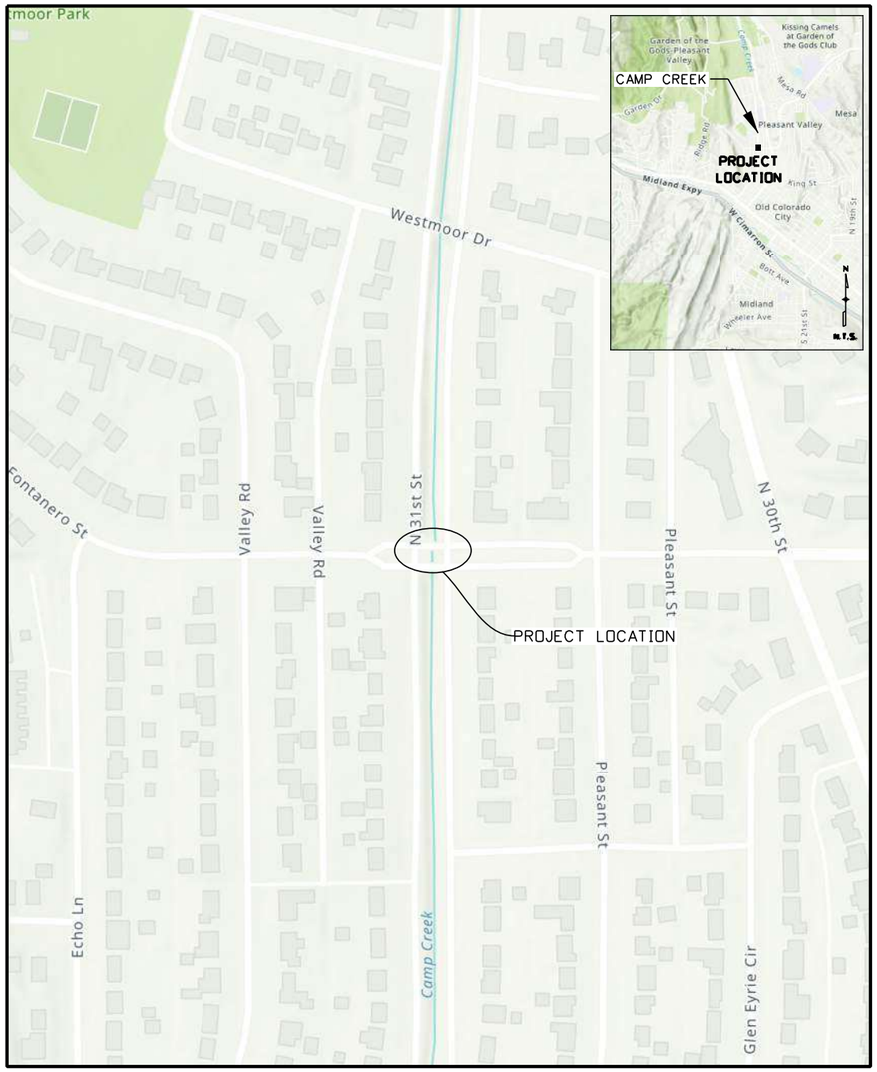
CITY OF COLORADO SPRINGS, EL PASO COUNTY, STATE OF COLORADO

31ST STREET / FONTANERO STREET

STM-REV25-0621

DRAINAGE PLANS

NOVEMBER 2025



PROJECT LOCATION MAP

0' 200' 400' 800'

SHEET NO.	SHEET NAME
1	TITLE SHEET
2	DRAINAGE STANDARD NOTES & SPECIFICATIONS
3	DRAINAGE TABULATIONS
4	DRAINAGE REMOVALS
5-7	CHANNEL AND CULVERT PLAN AND PROFILE
8	TYPICAL CHANNEL SECTIONS A&B
9	CULVERT CROSS SECTION
10	TYPICAL CHANNEL SECTIONS C&D
11	TYPICAL CHANNEL SECTIONS E&F
12-13	DRAINAGE PLAN
14-17	STORM SEWER PROFILES & DETAILS
18-27	STANDARD DETAILS

Engineer's Statement:

These detailed plans and specifications were prepared under my direction and supervision. Said detailed plans and specifications have been prepared according to the established criteria for detailed drainage plans and specifications, and said detailed plans and specifications are in conformity with the master plan of the drainage basin. Said detailed drainage plans and specifications meet the purposes for which the particular drainage facility(s) is designed. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of the detailed drainage plans and specifications.

Signature: Vancel Fossinger, PE. Date:

Printed Name: Vancel Fossinger Seal

Email Address: Vance.Fossinger@wilsonco.com

COLORADO REGISTERED VANCEL S FOSSINGER 31972 12/08/2025 PROFESSIONAL ENGINEER

City of Colorado Springs Review Statement:

Filed in accordance with Section 7.4.701 of the Code of the City of Colorado Springs, 2023.

Doug Money
For SWENT Manager Date: 12/10/2025

Conditions:

The City of Colorado Springs recognizes the design engineer as having responsibility for the design. The City has limited its scope of review accordingly. Resubmittal required if construction has not commenced within 180 days after review date.

City Project Manager's Statement:

I hereby certify that the drainage improvements for the 31" Street/Fontanero Street Roundabout shall be constructed according to the design presented in this report. I further understand that field changes must be reviewed by the City Review Engineer to ensure conformance with the original design intent. I am employed by and perform engineering services solely for the City of Colorado Springs, and therefore am exempt for Colorado Revised Statute Title 12, Article 25, Part 1 according to Section 12-25-103(1) C.R.S.

NAME OF CITY PROJECT MANAGER: DAVID G. WALKER, PE

AUTHORIZED SIGNATURE: D G Walker DATE: 12/10/25

Print Date: 11/4/2025			
File Name: 23916DRN_01_TitleSheet.dgn			
Horiz. Scale: 1:1	Vert. Scale:		
Unit Information	Unit Leader		

Sheet Revisions

Date:	Comments	Init.

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No Revisions:
Revised:
Void:

31ST ST & FONTANERO ST
DRAINAGE TITLE SHEET

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	DWD		
Sheet Subset:	DRN	Subset Sheets: 1 of 27	

Project No./Code
Project #STM-REV25-0621
Bid #__-__
Sheet Number 1

VAHart 2:31:24 PM pw:\\wils-pw.bentley.com:wils-pw\Documents\8100-TRN\City of Colorado Springs, CO\20-100-239-16\23916\Hydraulics_Drainage_GEC\Drawings\23916DRN_01_TitleSheet.dgn

Know what's below. Call before you dig.

Colorado Springs Channel Plan Standard Notes:

1. Channel Design Plan will be subject to re-review and re-acceptance by SWENT if work on the channel does not commence within twelve (12) months of plan approval.

2. The contractor should contact the Engineer of Record and SWENT Lead Reviewer immediately should construction of the channel vary in any way from the plans.

3. A Professional Engineer (PE) Certification that the channel has been installed and constructed in general conformance with these plans will be required once the channel is fully constructed. An as-constructed survey must be completed to verify facility volumes and elevations. The as-built drawings must be submitted along with the PE Certification. A PE certification requires periodic on-site observations by the Engineer of Record or a person under their responsible charge. Coordination with the Engineer of Record to ensure that the necessary on-site observations are completed is the responsibility of the applicant.

4. Acceptance of this plan does not constitute approval to grade or cause any disturbance within in any utility easement or Right-of-Way. Approvals to work within utility easements must be obtained from the appropriate utility company. It is not permissible for any person to modify the grade of the earth on any utility easement or Right-of-Way without the appropriate written approval. The plan shall not increase or divert water toward utility facilities. Any changes to existing utility facilities to accommodate the plan must be approved by the affected utility owner prior to implementing the plan. The applicant is responsible for the cost to relocate or protect existing utilities or to provide interim access.

5. After the GEC Plan and CSWMP are both approved, a City GEC Permit must be obtained. Please use the City's software, Accela, to complete and submit the GEC Permit application and pay the permit fee. After your GEC Permit application has been submitted, contact your GEC inspector. Construction activities shall not begin until a GEC Permit has been obtained. For additional information, call (719) 385-5980.

NOTE:

1. This drainage plan set is part of a larger set of Improvement Plans for the 31st Street/Fontanero Street Roundabout project. Please refer to the overall plan set for General Notes, Survey control, Structural Plans, and plans for other elements of the project.

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Print Date: 11/4/2025		Sheet Revisions			COLORADO SPRINGS OLYMPIC CITY USA	WILSON & COMPANY	
File Name: 23916DRN_02_NOTE.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:
Horiz. Scale: 1:1	Vert. Scale:						Revised:
Unit Information	Unit Leader						Void:

31ST ST & FONTANERO ST NOTES & SPECIFICATIONS				Project No./Code
				Project #STM-REV25-0621
Designer: VSF	Structure Numbers	CSG-E.00-10.57A		Bid #__-__
Detailer: DWD				
Sheet Subset: DRN	Subset Sheets: 2 of 27			Sheet Number

Know what's below. Call before you dig.

TABULATION OF DRAINAGE ITEMS			
COS ITEM NO.	ITEM NAME	UNIT	QUANTITY
220-00002	REMOVAL OF STRUCTURE (DRAINAGE)	LS	1
220-00018	REMOVAL OF MANHOLE	EACH	1
220-00019	REMOVAL OF DRAINAGE INLET	EACH	5
220-00026	REMOVAL OF CONCRETE SLOPE PAVEMENT	SY	1438
220-04010	REMOVAL OF STORM DRAIN (10 INCH)	LF	77
220-04012	REMOVAL OF STORM DRAIN (12 INCH)	LF	10
220-04018	REMOVAL OF STORM DRAIN (18 INCH)	LF	133
220-04042	REMOVAL OF STORM DRAIN (42 INCH)	LF	174
220-04045	REMOVAL OF STORM DRAIN (29x45 INCH)	LF	50
500-02005	NO. 57 STONE AGGREGATE (COMPLETE IN PLACE)	CY	40
625-06060	CONCRETE SLOPE PAVEMENT (REINFORCED) (6")	CY	35
625-06080	CONCRETE SLOPE PAVEMENT (REINFORCED) (8")	CY	42
630-50018	18" PLASTIC PIPE (HP-STORM)	LF	221
630-50024	24" PLASTIC PIPE (HP-STORM)	LF	130
630-50036	36" PLASTIC PIPE (HP-STORM)	LF	43
630-50042	42" PLASTIC PIPE (HP-STORM)	LF	132
636-01050	INLET TYPE 1 (L=5')	EACH	3
636-02100	INLET TYPE 2 (L=10')	EACH	3
636-02300	MODIFIED INLET TYPE 3 DOUBLE	EACH	4
636-32005	MANHOLE TYPE 2 (60" DIA)	EACH	1
636-32006	MANHOLE TYPE 2 (72" DIA)	EACH	2

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31ST ST & FONTANERO ST
DRAINAGE TABULATION

Designer: VSF
Detailer: DWD
Sheet Subset: DRN
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 3 of 27

Project No./Code
Project #STM-REV25-0621
Bid #__-__
Sheet Number

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N

0' 20' 40' 80'

1 INCH = 40 FEET (FULL SCALE 11"X17")

W FONTANERO ST

N 31st ST SB

N 31st ST NB

CAMP CREEK

33+00 34+00 35+00 36+00 37+00 38+00

17+00 18+00 19+00

HCL N 31st ST

HCL W FONTANERO ST

BEGIN REMOVAL OF INLET, 1 EA
AND 10" CMP STORM SEWER, 38 LF
TO EXISTING CULVERT
STA 35+21.66, 49.59' LT

SAWCUT AND BEGIN REMOVAL OF
EXISTING 18" HDPE STORM SEWER, 133 LF
TO EXISTING CULVERT
STA 16+26.35, 24.57' LT

REMOVAL OF INLET, 1 EA
STA 16+99.17, 33.94' LT

BEGIN REMOVAL OF INLET, 1 EA
AND 10" STORM SEWER, 33 LF
TO EXISTING CULVERT
STA 35+92.96, 53.32' LT

SAWCUT CONCRETE SLOPE PAVEMENT
AND END REMOVAL OF SLOPE PAVEMENT
FROM EXISTING CULVERTS, 181 SY
STA 37+00.71

SAWCUT CONCRETE SLOPE PAVEMENT
AND BEGIN REMOVAL OF CONCRETE
SLOPE PAVEMENT, 1076 SY
TO EXISTING CULVERT
STA 32+80.19

BEGIN REMOVAL OF INLET, 1 EA
AND 10" CMP STORM SEWER, 6 LF
TO 42" RCP STORM SEWER
STA 35+20.76, 50.52' RT

SAWCUT CONCRETE SLOPE PAVEMENT
AND END REMOVAL OF SLOPE PAVEMENT
FROM EXISTING CULVERTS, 181 SY
STA 37+00.62

BEGIN REMOVAL OF INLET, 1 EA
AND 12" RCP STORM SEWER, 10 LF
TO EXISTING HERCP STORM SEWER
STA 35+95.83, 56.36' RT

BEGIN REMOVAL OF MANHOLE, 1 EA
AND 29' X 45" HERCP STORM SEWER, 50 LF
TO EXISTING CHANNEL
STA 35+79.57, 53.05' RT

SAW CUT AND BEGIN REMOVAL
OF 42" RCP STORM SEWER, 174 LF
TO EXISTING CHANNEL
STA 19+39.94, 14.56' LT

REMOVAL LEGEND

- REMOVAL OF STRUCTURE (CULVERTS & APPURTENANCES)
- REMOVAL OF CONCRETE SLOPE PAVEMENT
- REMOVAL OF STORM SEWER & DRAINAGE INLET
- SAW CUT CONCRETE SLOPE PAVEMENT

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Unit Information	Unit Leader		

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31ST ST & FONTANERO ST REMOVALS (DRAINAGE)

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	DRN	Subset Sheets: 4 of 27	

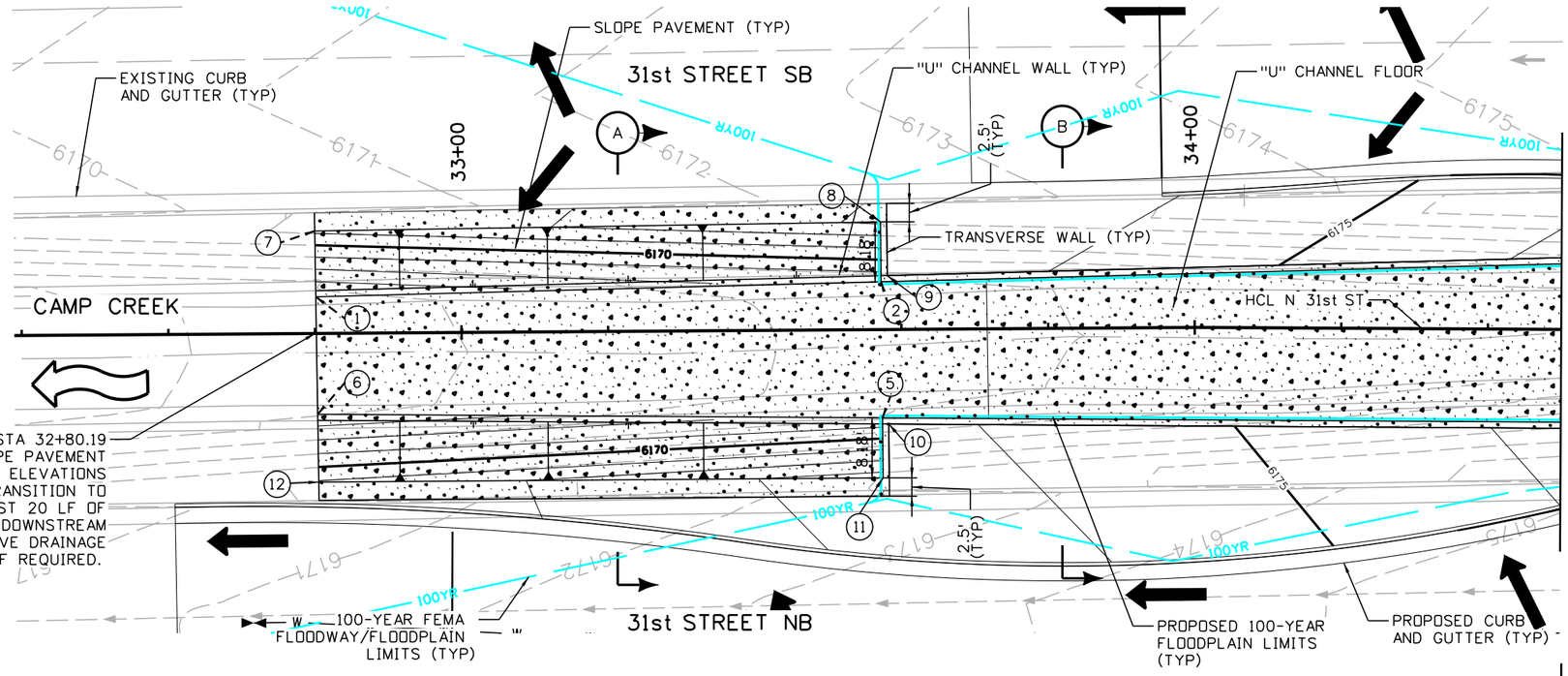
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Project #STM-REV25-0621
Bid #__-__
Sheet Number

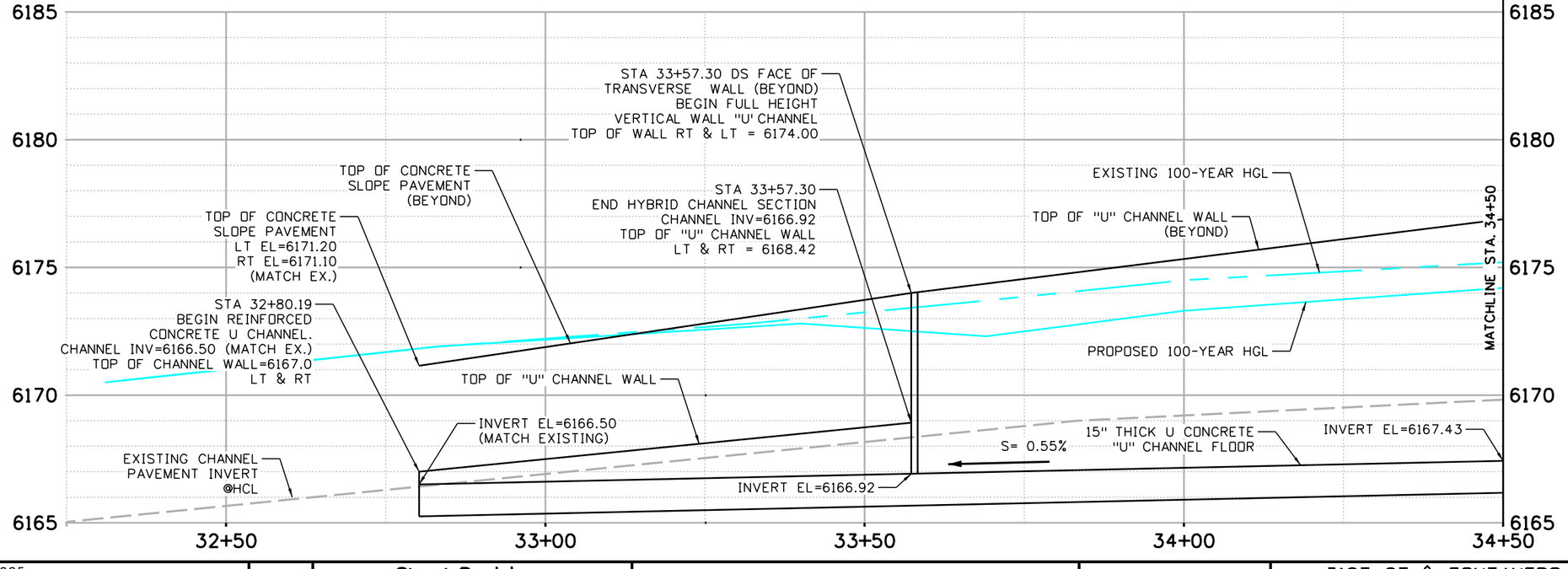
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NOTES:

1. SEE STRUCTURAL PLANS FOR "U" CHANNEL & TRANSVERSE WALLS DETAILS.

2. SEE SHEET 8 FOR CHANNEL CROSS SECTIONS.





0' 10' 20' 40'
1 INCH = 20 FEET (FULL SCALE 11"X17")

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31ST ST & FONTANERO ST
CHANNEL PLAN & PROFILE

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	DWD		
Sheet Subset:	DRN	Subset Sheets: 5 of 27	

Project No./Code
Project #STM-REV25-0621
Bid #__-__
Sheet Number

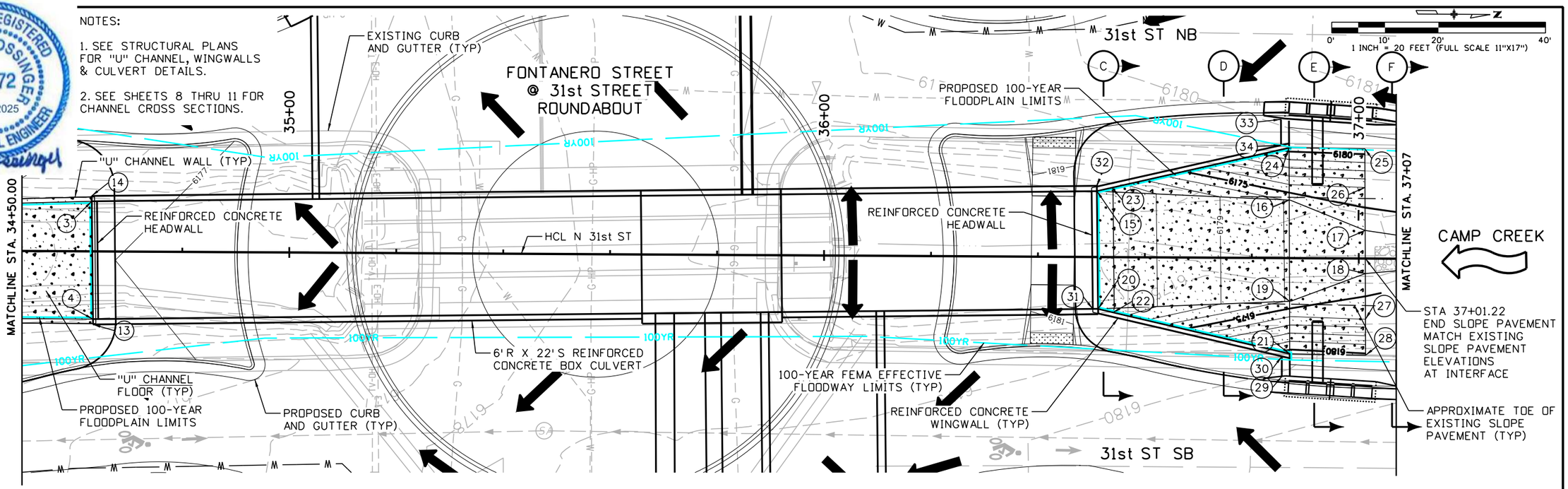
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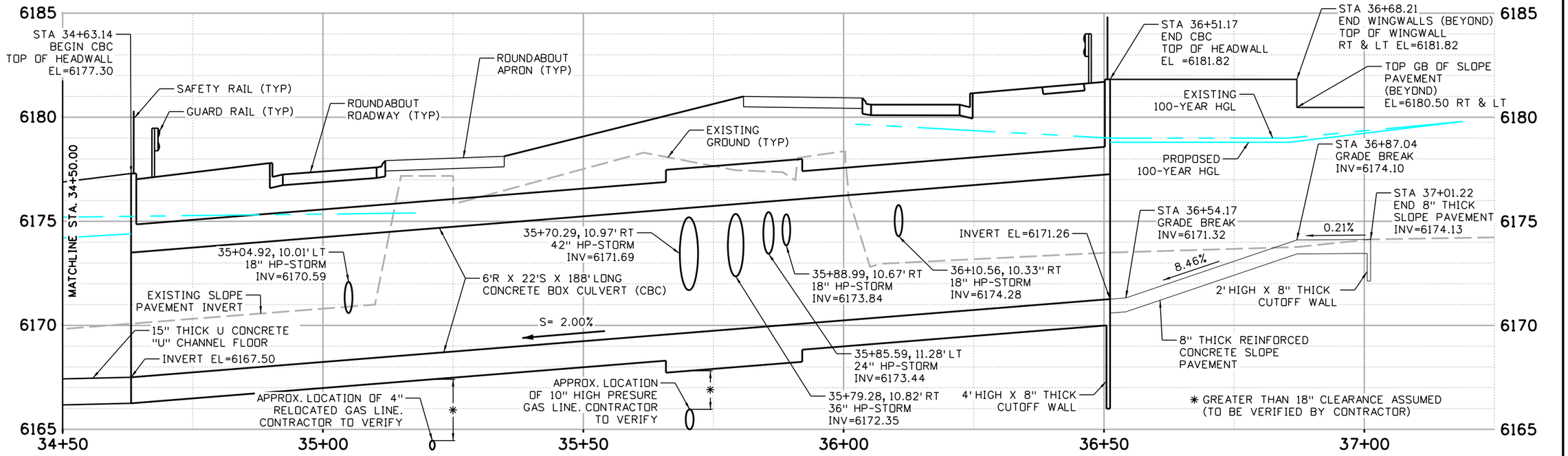
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NOTES:

1. SEE STRUCTURAL PLANS FOR "U" CHANNEL, WINGWALLS & CULVERT DETAILS.

2. SEE SHEETS 8 THRU 11 FOR CHANNEL CROSS SECTIONS.





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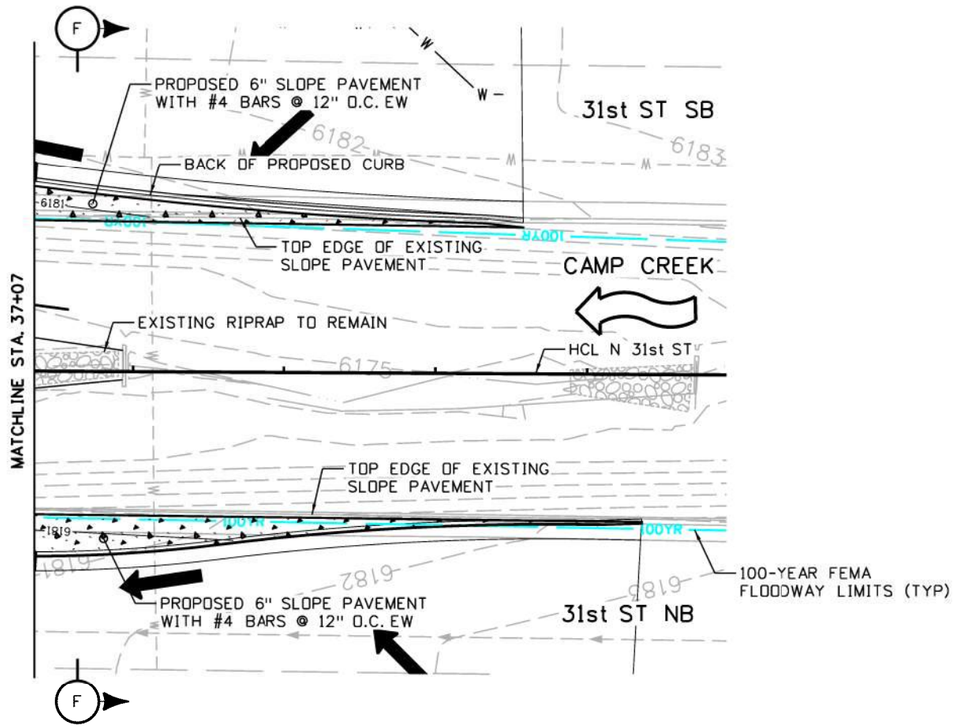
31ST ST & FONTANERO ST CULVERT PLAN & PROFILE

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	DWD		
Sheet Subset:	DRN	Subset Sheets: 6 of 27	

Project No./Code
Project #STM-REV25-0621
Bid #__-__
Sheet Number

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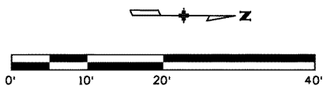
31st STREET MEDIAN PLAN

CHANNEL & CULVERT LAYOUT AND GRADING POINTS DATA				
POINT	STATION	OFFSET	DESCRIPTION	PROPOSED ELEVATION (FT)
1	32+80.14	5.01' LT	Begin U-Channel & Slope Pavement	6167.0/Match Existing
2	33+57.28	6.51' LT	End Short U-Wall, Begin High U-Wall - FL	6166.92
2	33+57.28	6.51' LT	End Short U-Wall, Begin High U-Wall-TOW	6174.00
3	34+63.00	9.35' LT	End High U-Wall, Begin CBC - FL	6167.50
3	34+63.00	9.35' LT	End High U-Wall, Begin CBC -TOW	6177.30
4	34+63.34	12.64' RT	End High U-Wall, Begin CBC FL	6167.50
4	34+63.34	12.64' RT	End High U-Wall, Begin CBC TOW	6177.30
5	33+57.34	12.02' RT	End Short U-Wall, Begin High U-Wall - FL	6166.92
5	33+57.34	12.02' RT	End Short U-Wall, Begin High U-Wall -TOW	6174.00
6	32+80.29	10.99' RT	Begin U-Channel & Slope Pavement	6167.0/Match Existing
7	32+80.06	13.99' LT	Begin Slope Pavement-Top of Slope -TOSP	6171.2/Match Existing
8	33+57.25	14.69' LT	End Sloped Pavement-Top of Slope -TOSP	6673.15
9	33+58.11	7.36' LT	Behind U-Wall and Transverse Wall - FG	6173.31
10	33+58.18	12.86' RT	Behind U-Wall and Transverse Wall -FG	6173.65
11	33+57.37	20.20' RT	End Sloped Pavement-Top of Slope- TOSP	6173.52
12	32+80.37	20.26' RT	Begin Slope Pavement-Top of Slope -TOSP	6171.1/Match Existing
13	34+63.36	13.64' RT	FG Behind U-Wall and Headwall - FG	6176.64
14	34+62.98	10.36' LT	FG Behind U-Wall and Headwall - FG	6176.64
15	36+50.97	12.30' LT	End CBC, Begin Wingwall- TOSP	6171.26
15	36+50.97	12.30' LT	End CBC, Begin Wingwall- TOW	6181.82
16	36+86.94	10.84' LT	Grade Break @ TOS - TOSP	6174.10
17	37+01.17	5.23' LT	Grade Break @ TOS - TOSP	6174.13
18	37+01.25	2.83' RT	Grade Break @ TOS - TOSP	6174.13
19	36+87.11	8.07' RT	Grade Break @ TOS - TOSP	6174.10
20	36+51.32	9.69' RT	End CBC, Begin Wingwall- TOSP	6171.26
20	36+51.32	9.69' RT	End CBC, Begin Wingwall- TOW	6181.82
21	36+87.20	17.87' RT	End Wingwall - TOW	6181.82
21	36+87.20	17.87' RT	GB In Slope Pavement @ Wall Face- TOSP	6180.50
22	36+54.14	10.34' RT	GB In Slope Pavement @ Wall Face- TOSP	6171.32
22	36+54.14	9.54' RT	GB In Slope Pavement @ TOS- TOSP	6171.32
23	36+53.80	12.95' LT	GB In Slope Pavement @ Wall Face- TOSP	6171.32
23	36+53.80	12.19' LT	GB In Slope Pavement @ TOS- TOSP	6171.32
24	36+86.85	20.56' LT	End Wingwall - TOW	6181.82
24	36+86.85	20.56' LT	GB In Sope Pavement @ Wall Face- TOSP	6180.50
25	37+01.03	20.48' LT	End Slope Pavement - Top of Slope -TOSP	6180.63/MATCH EXISTING
26	37+01.10	13.26' LT	End Slope Pavement -TOS-Grade Break -TOSP	6176/MATCH EXISTING
27	37+01.33	11.34' RT	End Slope Pavement -TOS-Grade Break -TOSP	6176/MATCH EXISTING
28	37+01.39	18.07' RT	End Slope Pavement @ Top of Slope -TOSP	6180.21/MATCH EXISTING
29	36+86.57	22.04' RT	End Edge Wall @ Back of Curb	Match Curb Top
30	36+86.54	18.57' RT	Behind Wingwall and Edge Wall - FG	6181.60
31	36+50.32	9.71' RT	Behind Wingwall and Headwall - FG	6181.50
32	36+50.96	13.30' LT	Behind Wingwall and Headwall - FG	6181.50
33	36+86.13	25.71' LT	End Edge Wall @ Back of Curb	Match Curb Top
34	36+86.17	21.26' LT	Behind Wingwall and Edge Wall - FG	6181.50

NOTES AND ABBREVIATIONS

1 Headwall and wingwall points are at the inside face of wall
2 TOSP = Top of concrete slope pavement
3 TOW = Top of headwall or wingwall
4 TOS = Toe of Slope
5 FL = Flow Line
6 CBC = Concrete Box Culvert
7 FG = Finished Grade
8 GB = Grade Break

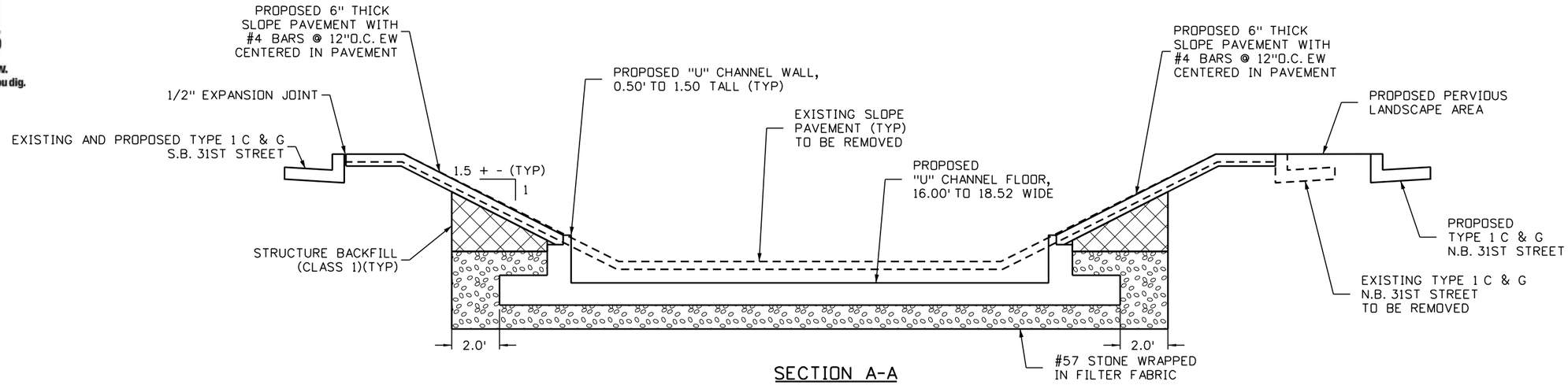




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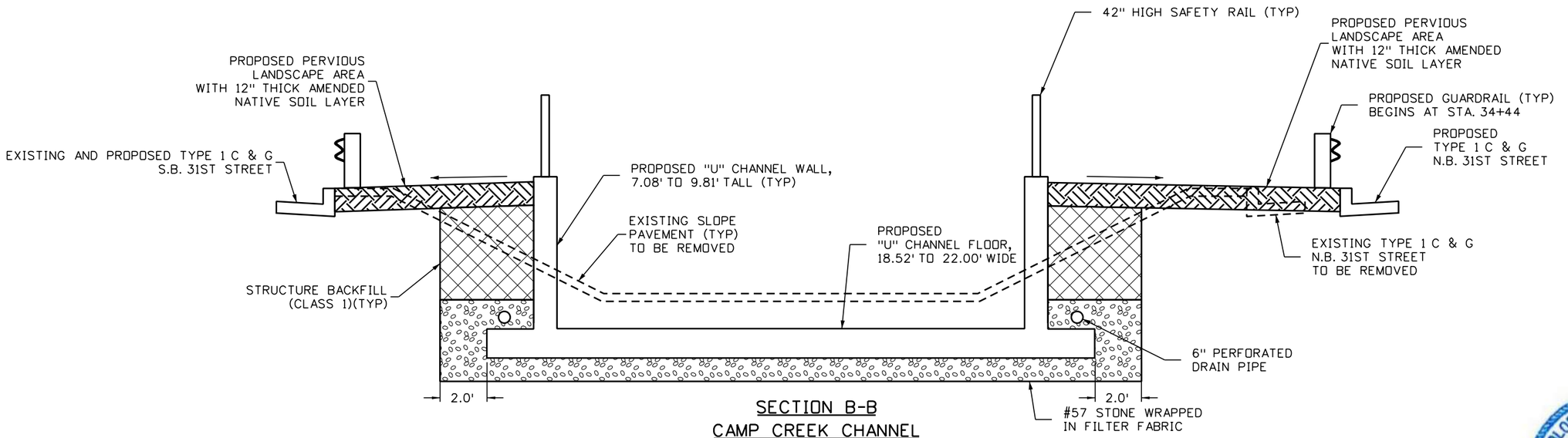
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File Name: 23916DRN_07_ChannelGRD.dgn		Date:	Comments	Init.			
Horiz. Scale: 1:20	Vert. Scale:						
Unit Informotion	Unit Leoder						

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Void:	Detailer: DWD			Bid #__-__
	Sheet Subset: DRN	Subset Sheets: 7 of 27		Sheet Number



SECTION A-A
CAMP CREEK CHANNEL
(N.T.S.)

STA. 32+80.19 TO 33+57.30



SECTION B-B
CAMP CREEK CHANNEL
(N.T.S.)

STA 33+57.30 TO 34+63.14

NOTE:

1. SEE STRUCTURAL PLANS FOR DETAILED INFORMATION ABOUT U-CHANNEL, CULVERT, AND ASSOCIATED #57 STONE, FILTER FABRIC, AND DRAINS.

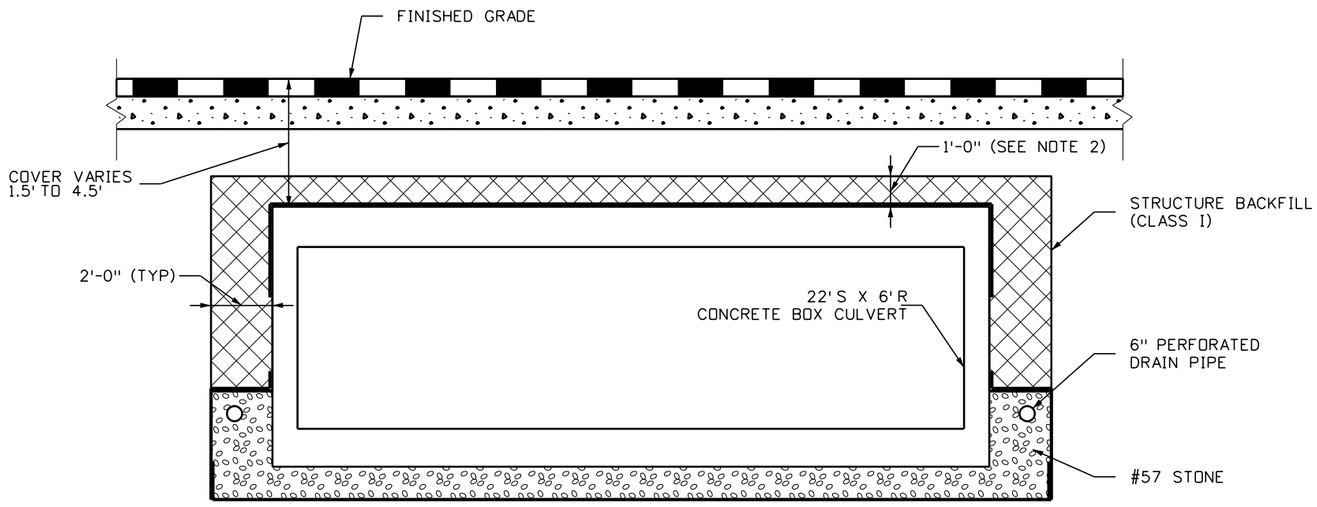
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Vance Fossinger

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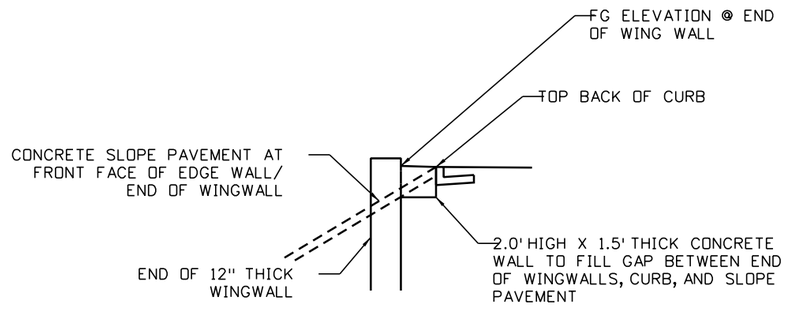
31ST ST & FONTANERO ST TYPICAL CHANNEL SECTIONS A&B DOWN STREAM				Project No./Code
				Project #STM-REV25-0621
Designer: VSF	Structure Numbers	CSG-E.00-10.57A		Bid #__-__
Detailer: BKM				
Sheet Subset: DRN	Subset Sheets: 8 of 27			Sheet Number

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22'S X 6'R REINFORCED CONCRETE BOX CULVERT SECTION
(N.T.S.)

STA. 34+63.14 TO STA. 36+51.17



SLOPE PAVEMENT EDGE WALL ELEVATION
(N.T.S.)

NOTES:

1. SEE STRUCTURAL PLANS FOR DETAILED INFORMATION ABOUT U-CHANNEL, CULVERT, AND ASSOCIATED #57 STONE, FILTER FABRIC, AND DRAINS.
2. WHERE COVER IS INSUFFICIENT FOR BOTH, REPLACE STRUCTURAL BACKFILL WITH ABC.

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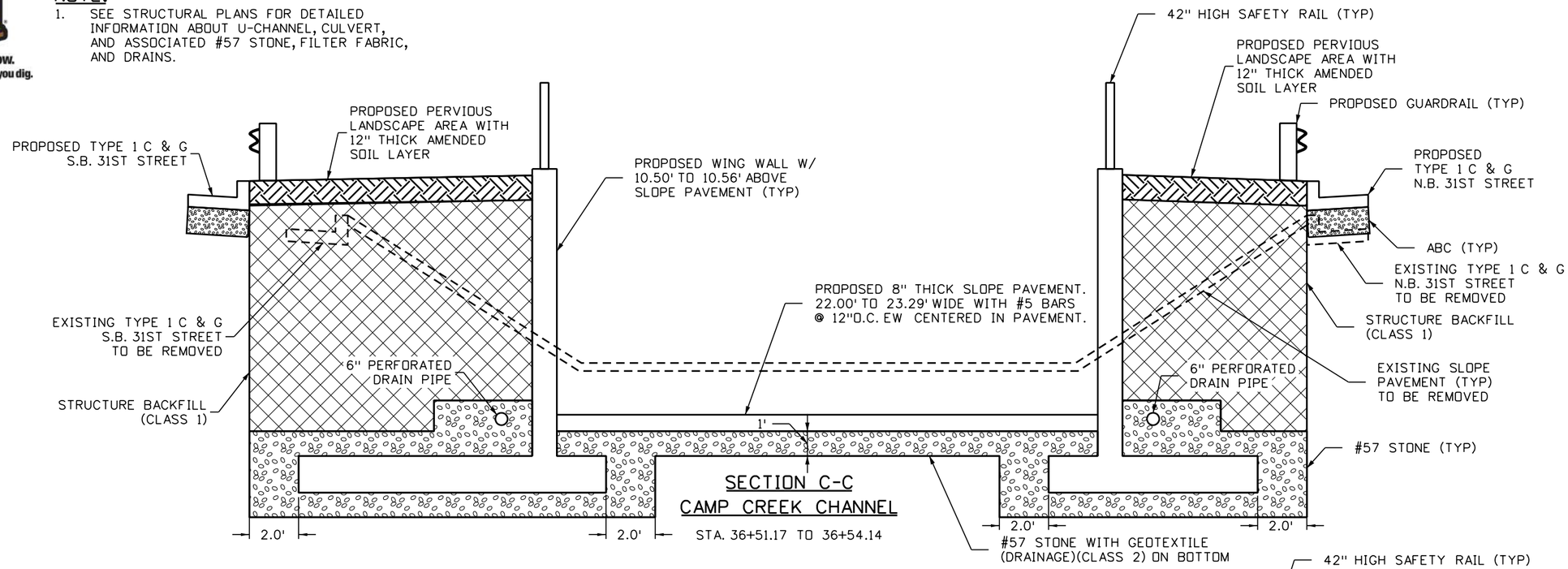
31ST ST & FONTANERO ST CULVERT CROSS SECTION & EDGE WALL DETAIL				Project No./Code
Designer: VSF	Structure Numbers	CSG-E.00-10.57A		Project #STM-REV25-0621
Detailer: BKM				Bid #__-__
Sheet Subset: DRN	Subset Sheets: 9 of 27			Sheet Number

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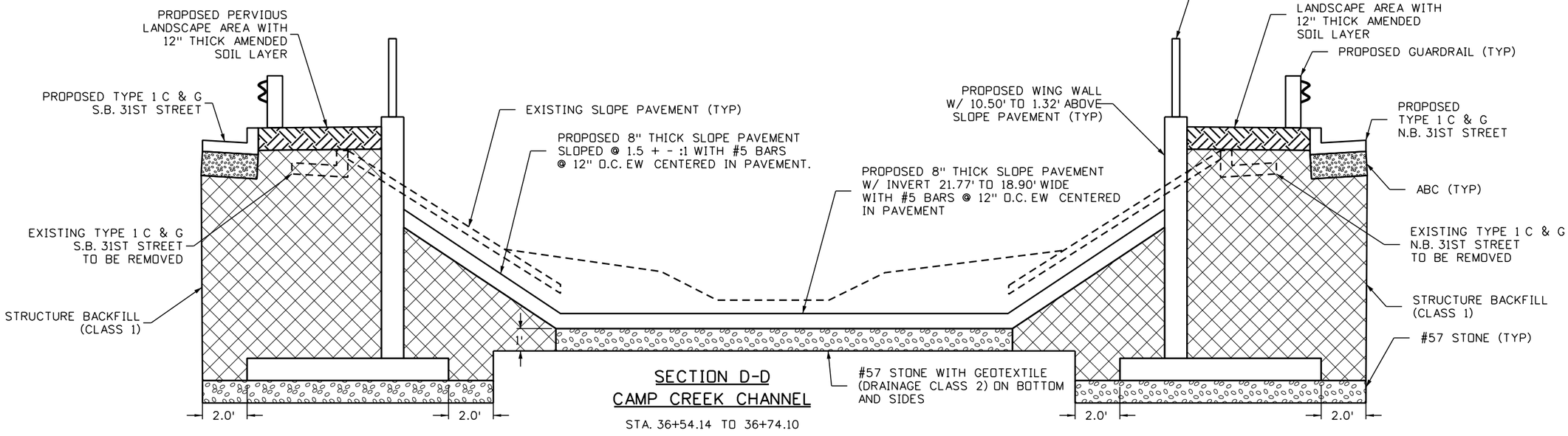
NOTE:

1. SEE STRUCTURAL PLANS FOR DETAILED INFORMATION ABOUT U-CHANNEL, CULVERT, AND ASSOCIATED #57 STONE, FILTER FABRIC, AND DRAINS.

COLORADO REGISTERED VANCE L S FOSSINGER 31972 12/08/2025 PROFESSIONAL ENGINEER



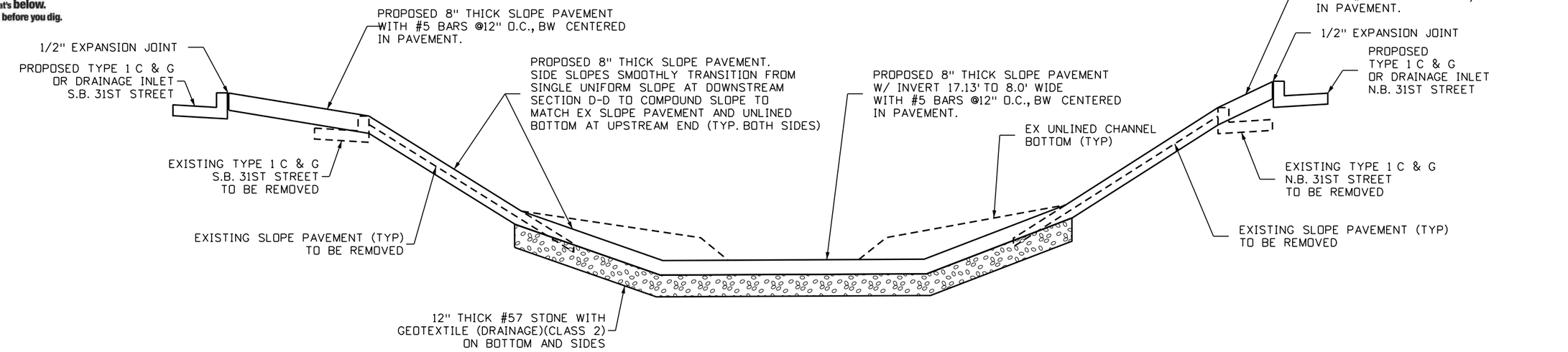
SECTION C-C
CAMP CREEK CHANNEL
STA. 36+51.17 TO 36+54.14



SECTION D-D
CAMP CREEK CHANNEL
STA. 36+54.14 TO 36+74.10

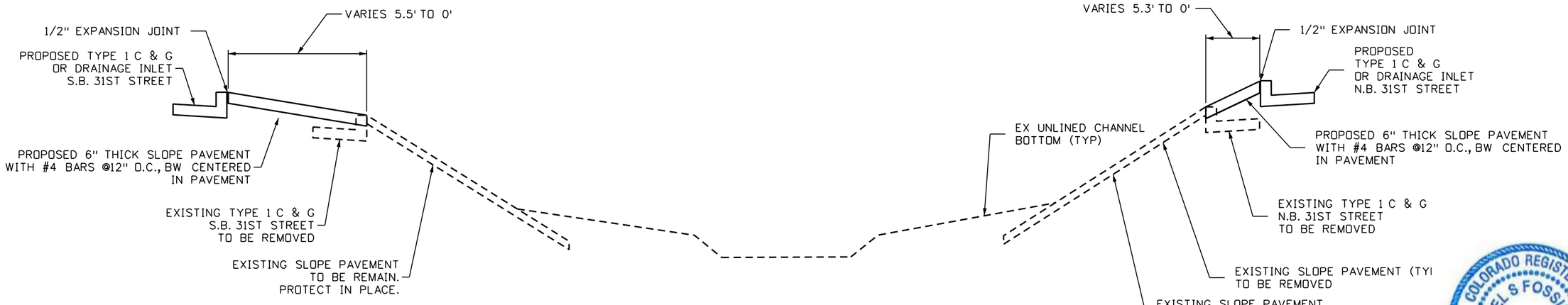
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Print Date: 11/4/2025		Sheet Revisions			COLORADO SPRINGS OLYMPIC CITY USA	WILSON & COMPANY	31ST ST & FONTANERO ST TYPICAL CHANNEL SECTION C&D UP STREAM	Project No./Code
File Name: 23916DRN_10_SecC&D.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108		Project #STM-REV25-0621
Horiz. Scale: 1:10	Vert. Scale:						Designer: VSF / Structure Numbers: CSG-E.00-10.57A	Bid #__-__
Unit Information	Unit Leader					No Revisions:	Detailer: BKM	
						Revised:	Sheet Subset: DRN / Subset Sheets: 10 of 27	Sheet Number
						Void:		



SECTION E-E
CAMP CREEK CHANNEL

STA. 36+87.11 TO 37+01.22



NOTE:

1. WHERE NEW SLOPE PAVEMENT ABUTS EXISTING SLOPE PAVEMENT, MATCH JOINTS OF EXISTING PAVEMENT.

SECTION F-F
CAMP CREEK CHANNEL

STA. 37+01.22 TO 37+87.00

COLORADO REGISTERED VANCEL S FOSSINGER 31972 12/08/2025 PROFESSIONAL ENGINEER

Vancel S Fossinger

Print Date: 11/4/2025		Sheet Revisions			
File Name: 23916DRN_11_SecE.dgn		Date:	Comments	Init.	
Horiz. Scale: 1:10	Vert. Scale:				
Unit Information	Unit Leader				

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FAX: 719-520-0108

No Revisions:
Revised:
Void:

31ST ST & FONTANERO ST
TYPICAL CHANNEL SECTION E & F
UP STREAM

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	DWD		
Sheet Subset:	DRN	Subset Sheets: 11 of 27	

Project No./Code
Project #STM-REV25-0621
Bid #__-__
Sheet Number

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0' 20' 40' 80'
1 INCH = 40 FEET (FULL SCALE 11"X17")

COLORADO REGISTERED
VANCE L S FOSSINGER
31972
12/08/2025
PROFESSIONAL ENGINEER

STA 16+13.64, 29.75' LT
FL ELEV= 6179.02
PROPOSED 18" HP-STORM STORM SEWER 2A
PROPOSED INLET TYPE 2 (L=10')
STA 16+32.98, 30.02' LT
FL ELEV=6178.83
PROPOSED 24" HP-STORM STORM SEWER 2
STA 16+92.11, 19.73' LT
FL ELEV=6178.77
PROPOSED INLET TYPE 1 (L=5') APRON MODIFIED TO MATCH CURB AND GUTTER RADIUS
STA 17+04.98, 26.06' LT
FL ELEV=6178.55
STA 16+26.52, 24.57' LT
PROPOSED MANHOLE TYPE 2 (60")
EXISTING 6" PVC DRAINS TO BE RECONNECTED AT PROPOSED CONCRETE BOX CULVERT
STA 17+23.35, 45.97' RT
FL ELEV=6176.39
PROPOSED INLET TYPE 1 (L=5') APRON MODIFIED TO MATCH CURB AND GUTTER RADIUS
STA 17+30.75, 58.25' RT
FL ELEV=6176.16
PROPOSED 100-YEAR FLOODPLAIN LIMITS (TYP)
PROPOSED 18" HP-STORM STORM SEWER 1
STA 36+82.08, 27.11' LT
FL ELEV=6180.55
PROPOSED INLET TYPE 3 (DOUBLE + DOUBLE)
PROPOSED 24" HP-STORM STORM SEWER 2
STA 37+07.03, 25.52' LT
FL ELEV= 6180.75
100-YEAR FEMA EFFECTIVE YEAR FLOODWAY
PROPOSED 24" RCP STORM SEWER 8
HCL N 31st ST
STA 36+82.37, 22.93' RT
FL ELEV=6180.77
PROPOSED INLET TYPE 3 (DOUBLE + DOUBLE)
PROPOSED 18" HP-STORM STORM SEWER 7
PROPOSED 36" HP-STORM STORM SEWER 5
STA 18+30.58, 22.65' LT
PROPOSED MANHOLE TYPE 2 (60" DIA)
STA 18+20.26, 59.30' LT
FL ELEV= 6179.55
STA 37+07.33, 24.33' RT
FL ELEV = 6180.98
PROPOSED INLET TYPE 1 (L=5') APRON MODIFIED TO MATCH CURB AND GUTTER RADIUS
STA 18+27.38, 46.85' LT
FL ELEV=6179.42
PROPOSED 42" HP-STORM STORM SEWER 4
EXISTING 45" X 29" HERCP TO REMAIN
PROPOSED 18" HP-STORM STORM SEWER 6
STA 18+83.31, 30.88' LT
FL ELEV= 6181.18
PROPOSED INLET TYPE 2 (L=10')
STA 19+02.64, 31.11' LT
FL ELEV=6181.95
HCL W FONTANERO ST
MATCHLINE STA. 19+10.00
W FONTANERO ST
N 31st ST SB
N 31st ST NB
CAMP CREEK
16+00
17+00
18+00
19+00
33+00
34+00
35+00
36+00
37+00
38+00
100YR
FLOW DIRECTION

NOTES:

1. THE TOPS OF ALL INLETS SHALL MATCH AND SLOPE CONSISTENT WITH THE TOPS OF THE ROADWAY CURBS THEY ARE CONSTRUCTED IN.

Print Date: 11/4/2025	Sheet Revisions		
File Name: 23916DRN_12_DrainagePn.dgn	Date:	Comments	Init.
Horiz. Scale: 1:40 Vert. Scale:			
Unit Information Unit Leader			

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Revised:
Void:

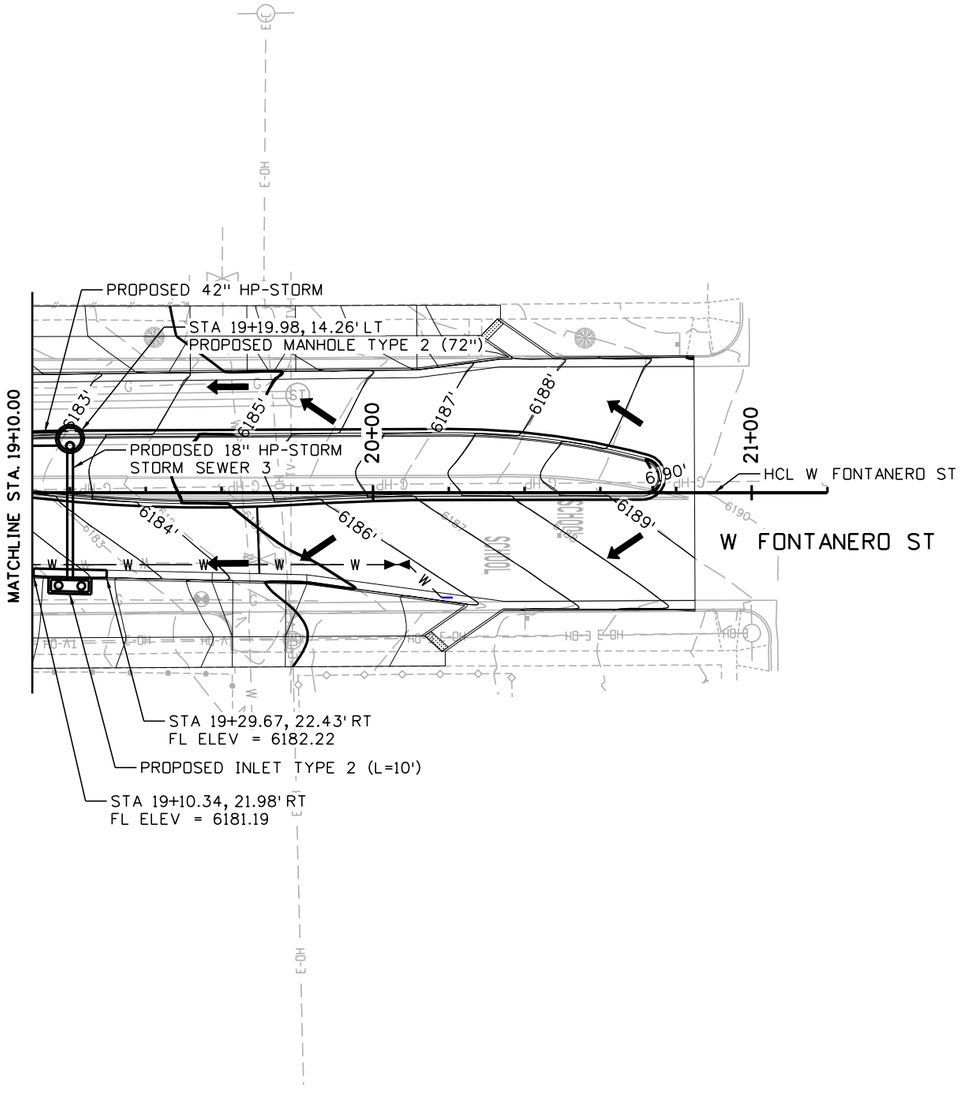
31ST ST & FONTANERO ST DRAINAGE PLAN

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	DWD		
Sheet Subset:	DRN	Subset Sheets: 12 of 27	

Project No./Code
Project #STM-REV25-0621
Bid #__-__
Sheet Number

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N

0' 20' 40' 80'

1 INCH = 40 FEET (FULL SCALE 11"X17")

FLOW DIRECTION

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Print Date: 11/4/2025
File Name: 23916DRN_13_DrainagePn.dgn
Horiz. Scale: 1:40 Vert. Scale:
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Date:	Comments	Init.

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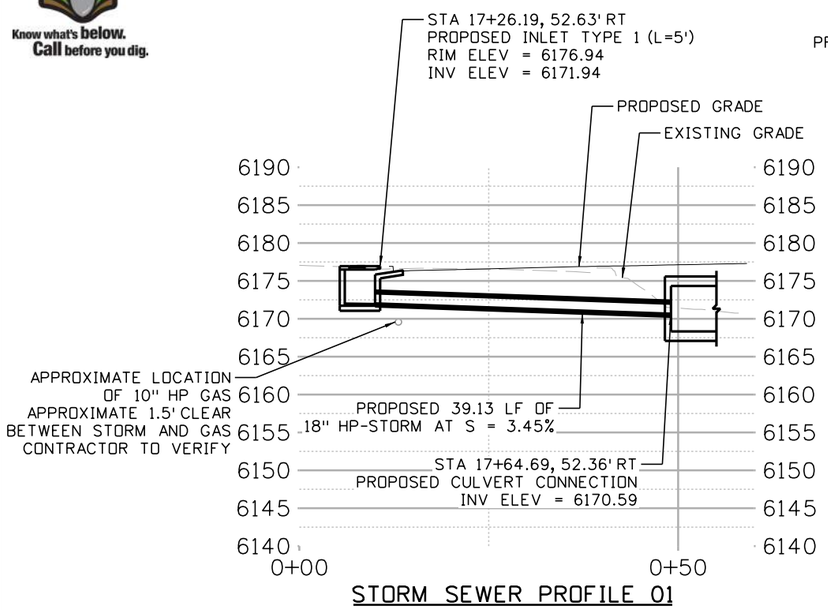
31ST ST & FONTANERO ST DRAINAGE PLAN

Designer: VFS
Detailer: DWD
Sheet Subset: DRN
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 13 of 27

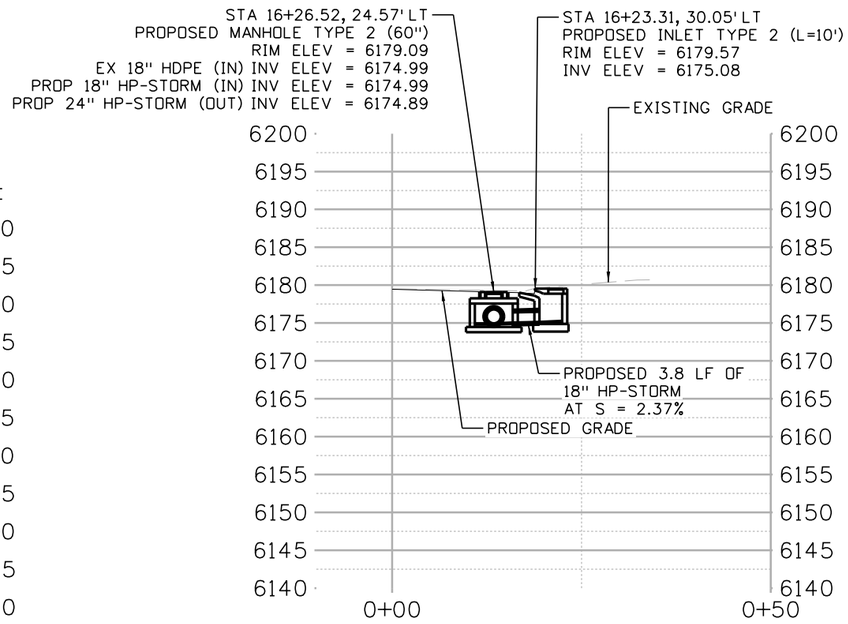
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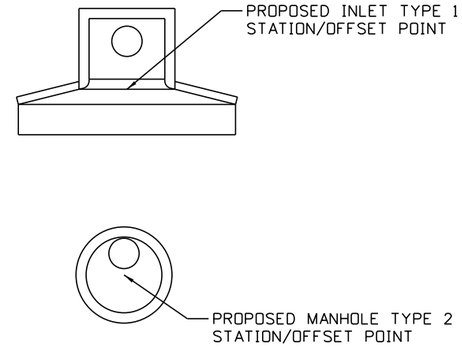
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STORM SEWER PROFILE 01

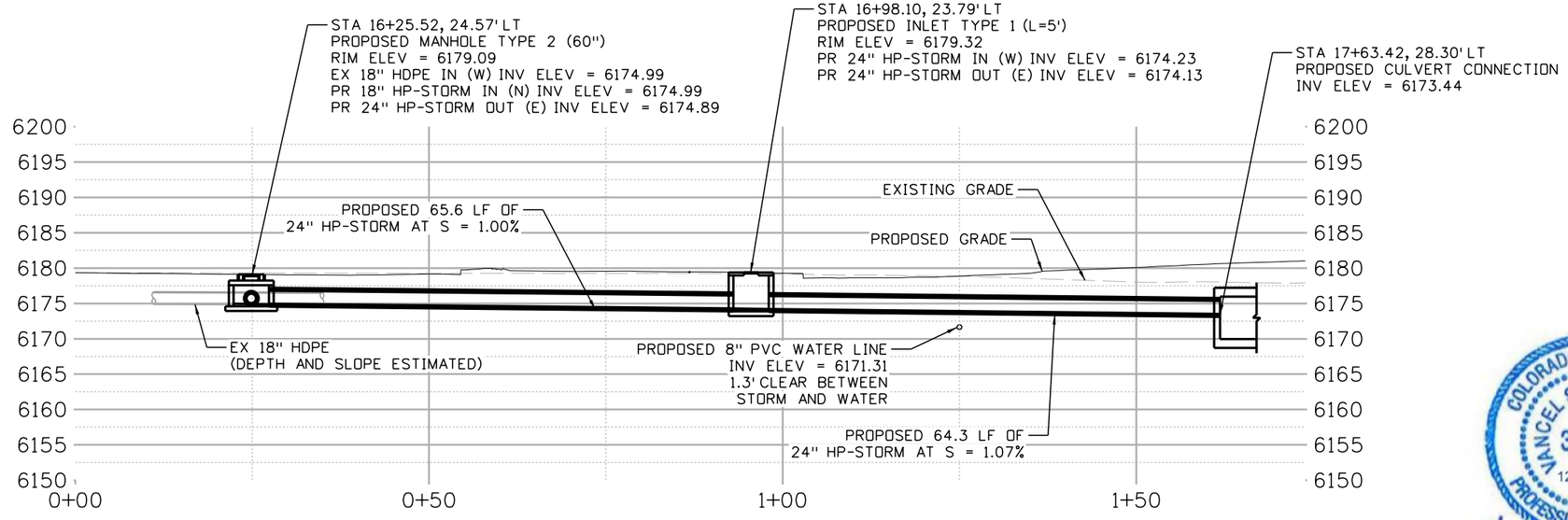


STORM SEWER PROFILE 2A

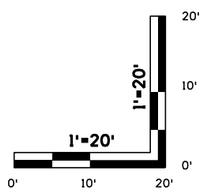


NOTES:

1. STATION/OFFSET REFERENCES FONTANERO STREET ALIGNMENT
2. SEE STRUCTURAL PLANS FOR PIPE-TO-BOX CULVERT CONNECTION DETAILS
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 12" OF COMPACTED SUITABLE BACKFILL OVER STORM SEWERS CROSSED WITH CONSTRUCTION TRAFFIC IN ACCORDANCE WITH THE PIPE MANUFACTURER'S REQUIREMENTS



STORM SEWER PROFILE 02





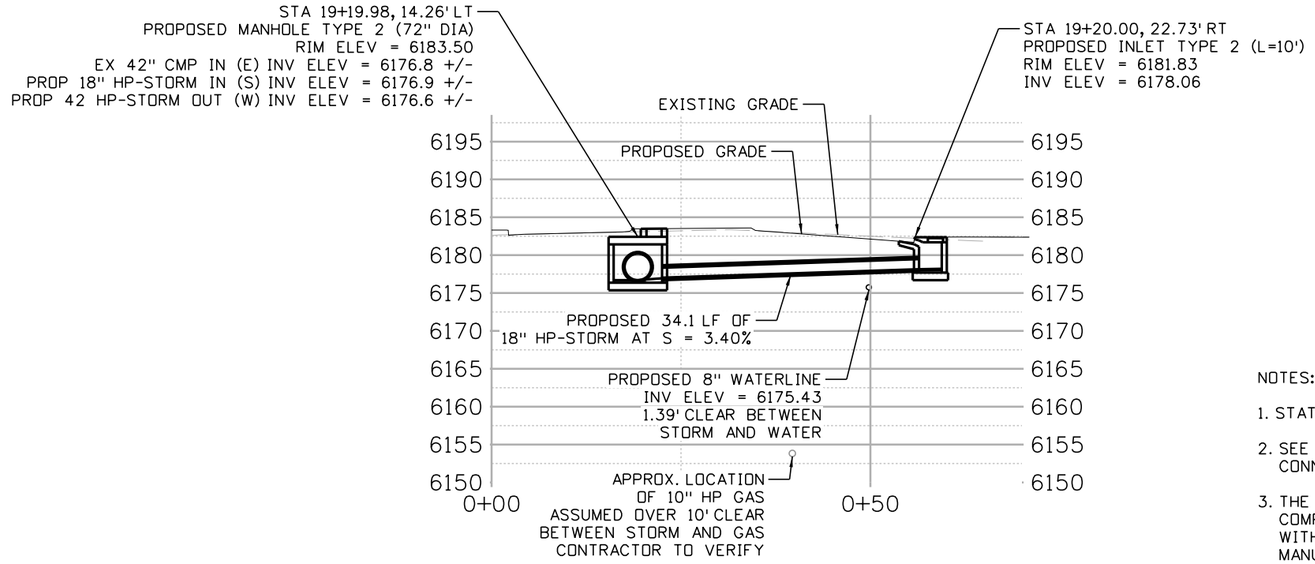
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File Name: 23916DRN_14_StormSewerPr.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	Revised:
Horiz. Scale: 1:20	Vert. Scale:						Void:
Unit Information	Unit Leader						

31ST ST & FONTANERO ST STORM SEWER PROFILE				Project No./Code
				Project #STM-REV25-0621
Designer: VSF	Structure Numbers	CSG-E.00-10.57A		Bid #__-__
Detailer: DWD				
Sheet Subset: DRN	Subset Sheets: 14 of 27			Sheet Number

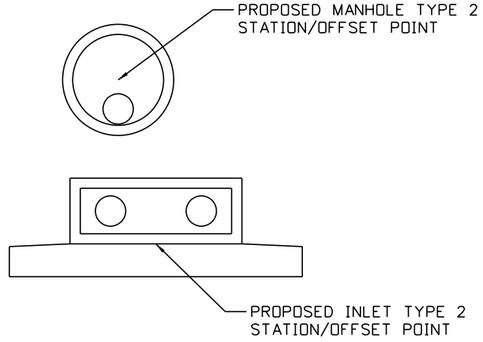
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31972
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PROFESSIONAL ENGINEER

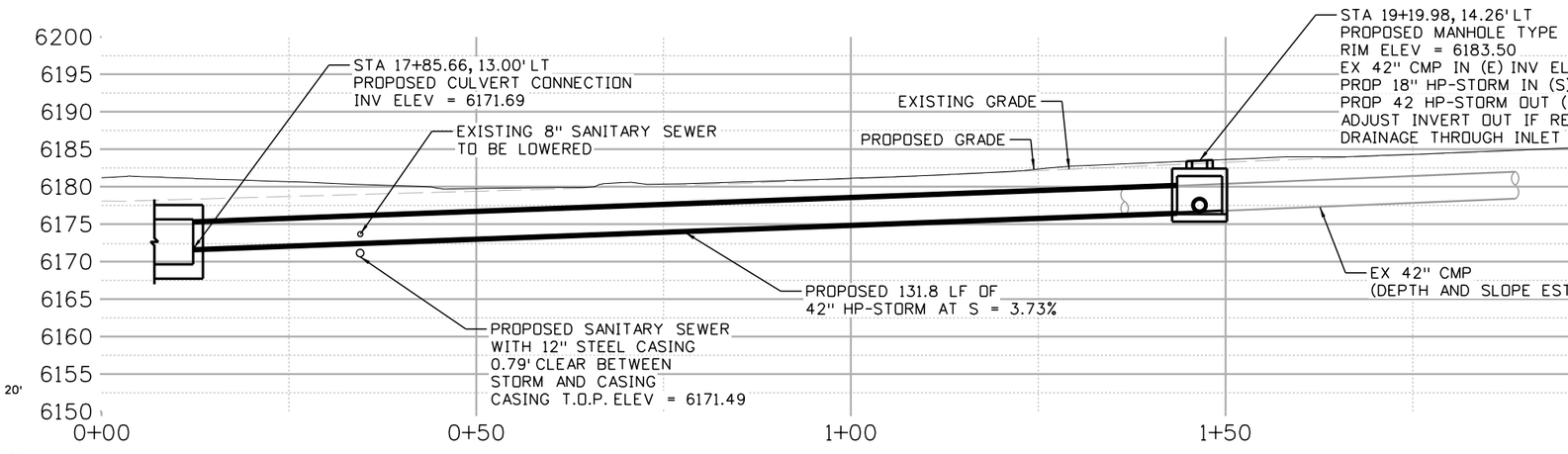


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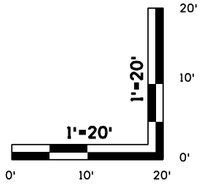


NOTES:

1. STATION/OFFSET REFERENCES FONTANERO STREET ALIGNMENT
2. SEE STRUCTURAL PLANS FOR PIPE-TO-BOX CULVERT CONNECTION DETAILS
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 12" OF COMPACTED SUITABLE BACKFILL OVER STORM SEWERS CROSSED WITH CONSTRUCTION TRAFFIC IN ACCORDANCE WITH THE PIPE MANUFACTURER'S REQUIREMENTS



STORM SEWER PROFILE 04



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STORM SEWER PROFILE

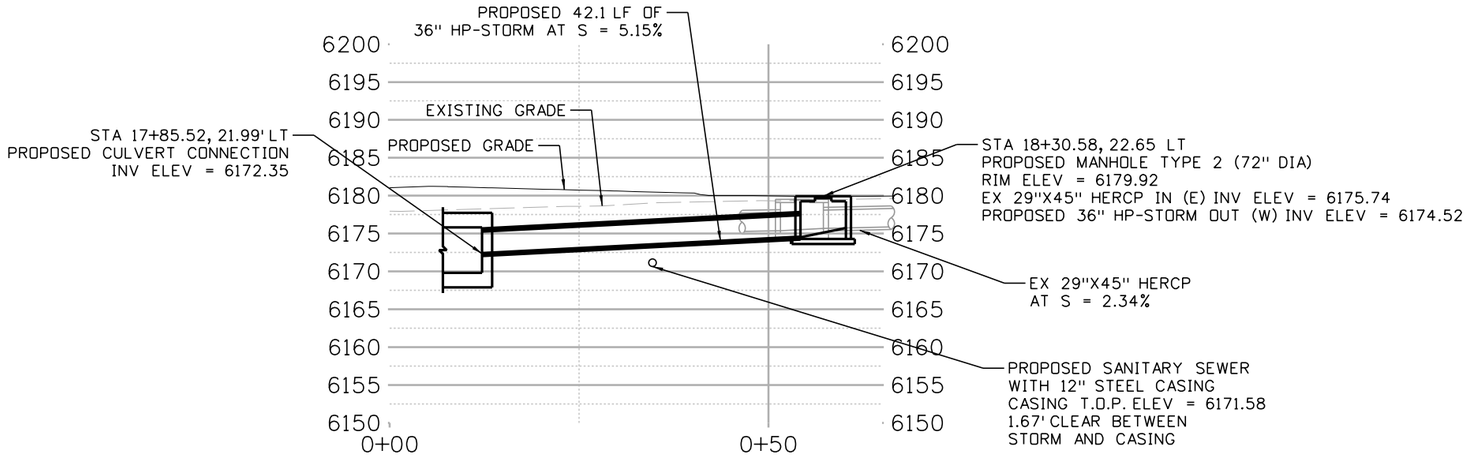
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Detailer:	DWD		
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Project No./Code
Project #STM-REV25-0621
Bid #__-__
Sheet Number

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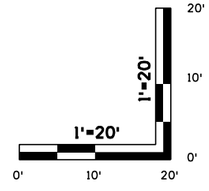
STORM SEWER PROFILE 05



STORM SEWER PROFILE 06

NOTES:

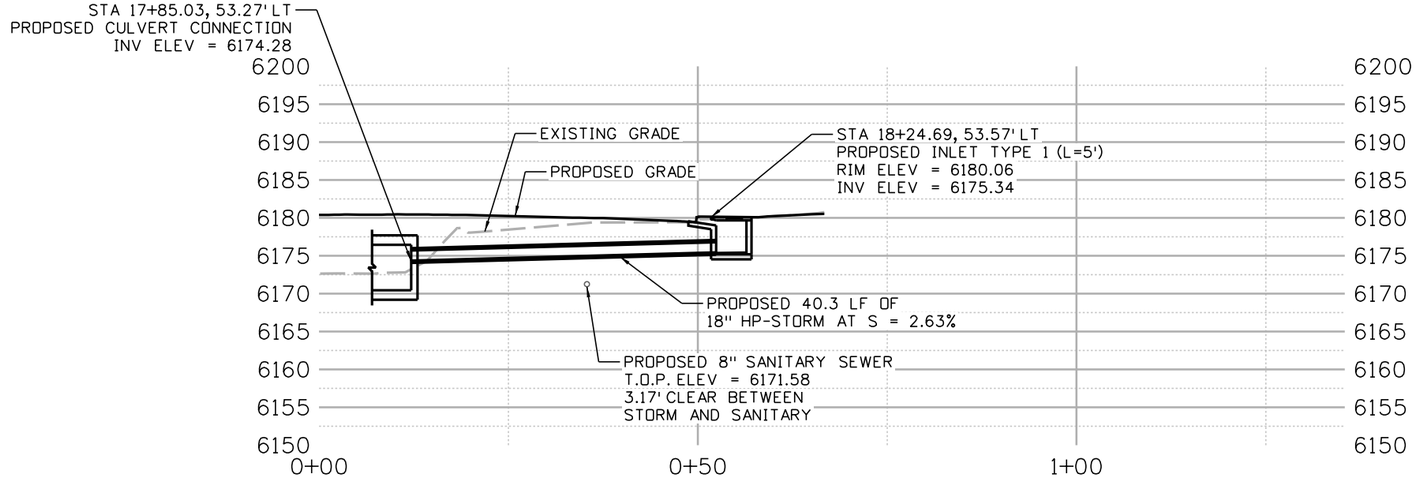
1. STATION/OFFSET REFERENCES FONTANERO STREET ALIGNMENT
2. SEE STRUCTURAL PLANS FOR PIPE-TO-BOX CULVERT CONNECTION DETAILS
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 12" OF COMPACTED SUITABLE BACKFILL OVER STORM SEWERS CROSSED WITH CONSTRUCTION TRAFFIC IN ACCORDANCE WITH THE PIPE MANUFACTURER'S REQUIREMENTS



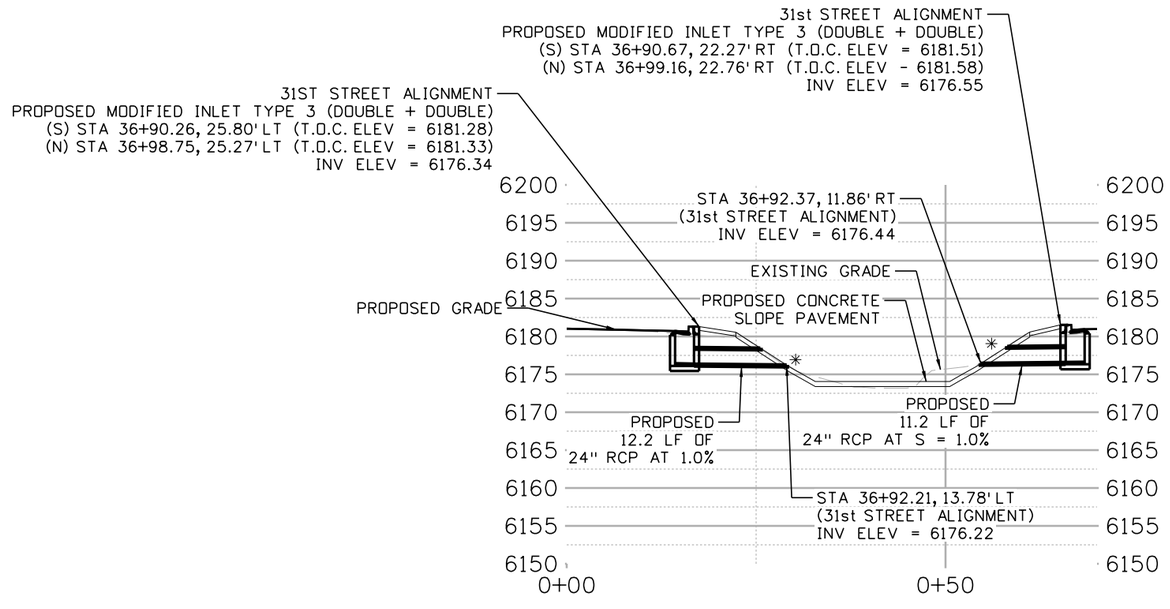
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File Name: 23916DRN_16_StormSewerPr.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	No Revisions:
Horiz. Scale: 1:20	Vert. Scale:						Revised:
Unit Information	Unit Leader						Void:

31ST ST & FONTANERO ST STORM SEWER PROFILE				Project No./Code
				Project #STM-REV25-0621
Designer: VSF	Structure Numbers	CSG-E.00-10.57A		Bid #__-__
Detailer: DWD				
Sheet Subset: DRN	Subset Sheets: 16 of 27			Sheet Number

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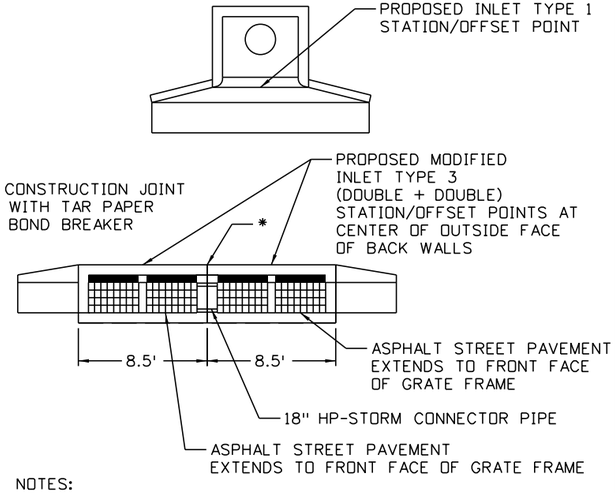


STORM SEWER PROFILE 07



STORM SEWER PROFILE 08

* BEVEL END OF PIPE TO MATCH
TOP OF CONCRETE SLOPE PAVING



NOTES:

1. STATION/OFFSET REFERENCES FONTANERO STREET ALIGNMENT UNLESS OTHERWISE NOTED

2. SEE STRUCTURAL PLANS FOR PIPE-TO-BOX CULVERT CONNECTION DETAILS

3. THE CURB INLET TYPE 3 DOUBLE INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY STANDARD DETAILS EXCEPT THAT THEY WILL BE CONSTRUCTED AS 2 SETS OF 2 WITH ABUTTING END WALLS AND THE CONCRETE CAP AT THE EDGE OF THE STREET PAVING WILL BE REPLACED WITH 5" THICK ASPHALT STREET PAVEMENT EXTENDING TO THE INLET GRATE FRAME. A 16" LONG X 18" DIA HP-STORM PIPE SHALL CONNECT THE ABUTTING INLETS THROUGH THE ABUTTING END WALLS

   THE DOUBLE TYPE 3 INLETS, INCLUDING ABUTTING END WALLS, SHALL BE CONSTRUCTED STRUCTURALLY INDEPENDENT WITH NO REBAR CONNECTING BETWEEN ABUTTING INLETS AND NO MODIFICATIONS TO THE STANDARD DETAIL REINFORCEMENT SO THAT THE STRUCTURAL DESIGN ASSUMPTIONS OF THE STANDARD DETAILS ARE MAINTAINED

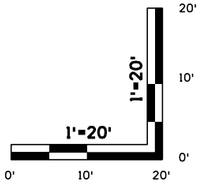
   REINFORCEMENT AROUND ALL PIPE PENETRATIONS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL

4. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 12" OF COMPACTED SUITABLE BACKFILL OVER STORM SEWERS CROSSED WITH CONSTRUCTION TRAFFIC IN ACCORDANCE WITH THE PIPE MANUFACTURER'S REQUIREMENTS





Rob Borden's stamp on this sheet only applies to the notes calling for minor modifications to the City Standard Detail for Inlet Type 3 Double



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Print Date: 12/9/2025			
File Name: 23916DRN_17_StormSewerPr.dgn			
Horiz. Scale: 1:20	Vert. Scale:		
Unit Information	Unit Leader		

Sheet Revisions

Date:	Comments	Init.

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31ST ST & FONTANERO ST
STORM SEWER PROFILE

Project No./Code
Project #STM-REV25-0621

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	DWD		
Sheet Subset:	DRN	Subset Sheets: 17 of 27	

Bid #__-__

Sheet Number 17

Know what's below. Call before you dig.

General Notes:

1. All work shall be done in accordance with current City of Colorado Springs Engineering Division (the City) Standard Specifications.
2. The contractor shall obtain all required permits. For city permits contractors shall use the ACCELA on–line permit system. Once city permits are approved and paid, then appropriate scheduling and notifications shall be in ACCELA.
3. Curb face assembly shall be painted safety yellow. One coat of shop primer and two coats of industrial enamel paint shall be used.
4. Concrete used for inlets and connections shall be a City–approved structural concrete mix design.
5. A minimum of 6–inches thick of granular bedding material shall be provided below all inlets.
6. Reinforcing bars shall be ASTM A615, Grade 60 deformed steel marked with bar designation, grade and mill marking.
7. Reinforcing shall have a minimum 2–inch clearance, except as noted.
8. Pipe entries into inlets are variable; the dimensions and reinforcing details shown are typical.
9. Inlet floors shall be channelized and finished with a City–approved concrete mix to a smooth surface that slopes towards the outlet (2% min. for inlets). Floor slope shall either be poured monolithic with the base or after floor and pipe openings are constructed. Epoxy between pipe and invert if there is a cold joint.
10. Curb inlet depth and length may vary. Curb inlet length shall be 5–feet, 10–feet, or 15–feet; not to exceed 15–feet unless approved by Stormwater Enterprise. Where curb inlets with lengths greater than 10–feet are approved, provide maintenance access at both ends; ensure inlet and outlet pipes are near to these access points.
11. Curb inlet top deck slab shall be sloped toward the street (0.5% min.; 2% max.).
12. The opening and top deck slab of curb inlets shall match the running slope of the street grade and/or the designed curb line profile at each location. Curb inlets shall not create unnecessary dips or bumps in the roadway cross section which adversely affect drivability of the pavement surface.
13. Stub–outs shall extend a minimum of 2–foot beyond outside wall surface of inlets and shall be plugged as approved by the Inspector.
14. No formwork shall remain inside inlets after completion.
15. Concrete walls shall be formed on both sides. Casting of sidewalls against earth is not permitted.
16. Exposed concrete corners shall be chamfered 3/4–inch. Curb and gutter corners shall be finished to match the existing curb and gutter beyond the transition for curb inlets.
17. A minimum of one vertical support bar is required. Curb inlets greater than 5–feet wide shall have support bars installed at maximum 3–foot intervals evenly spaced across the opening.
18. Grates for area inlets shall be installed during construction of the box, with the grate bolted to the frame.
19. Steps shall be installed for inlets with internal height greater than 30–inches at 16–inches spacing with the top step located 16 to 18–inches below the lid. Steps shall conform to AASHTO M–199. Steps shall align vertically and shall not interfere with pipe openings.
20. Outer wall of pipe shall be a minimum of 6–inches from interior side walls and top of inlets.
21. All reinforcement dimensions are on–center (O.C.) unless otherwise noted.
22. Precast inlets may be used upon annual City acceptance of shop drawings and concrete mix design. Contractor shall provide proof of acceptance prior to installation.
23. Precast base slab shall be poured monolithically with bottom riser section.
24. Precast base shall fit the conditions and locations for which they are intended without any field modifications. Bases which require field cutting or modification in order to fit the location intended will be rejected by the Inspector and removed and replaced by the contractor at no additional cost.
25. Storm sewers shall have tracer wire installed per the tracer wire detail prior to acceptance.
26. Cast–in–place inlets greater than 10–feet in depth shall be designed by a structural engineer per section 636 for the City Specifications and structural calculations shall be submitted with the drainage plan and profile drawings for review. If field conditions change and modifications to the cast–in–place inlet are required, modifications to the inlet will be designed by a structural engineer and calculation and drawing submitted to development review for acceptance.
27. Precast inlets shall have shop drawings submitted to the inspector at the time of installation and meet the requirements of ASTM C–789 and C–850. If field conditions change and modifications to the precast inlet are required, modifications to the inlet will be designed and complete by the precast manufacturer. A letter will be provided to the inspector stating the modifications do not alter the structural integrity of the inlet.

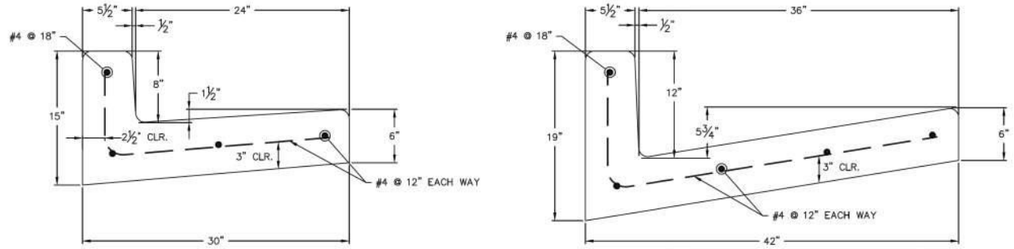
Inlet Type	Maximum Pipe Size (I.D.)			
	Straight Side	Angled (Max. 45°)		
		Side	Back & Front (5')	Back & Front (10')
Curb Inlet Type 1	24"	15"	24"	60"
Curb Inlet Type 2	18"	<12"	24"	60"
Curb Inlet Type 3 (Single)	18"	12"	18"	–
Curb Inlet Type 3 (Double)	18"	12"	–	42"
Curb Inlet Type 4	15"	–	24"	60"
Area Inlet Type 1 (Single)	21"	12"	–	–
Area Inlet Type 1 (Double)	21"	18"	–	30"
Area Inlet Type 2	30"	18"	18"	–

Alternate sizing and angles are listed in the Drainage Criteria Manuel

COLORADO SPRINGS

STORM DRAIN
INLET GENERAL NOTES

APPROVED: Gayle Sturdivant, CITY ENGINEER
ISSUED: 7/8/24 | REVISED: | DRAWING NO. D–9A



CURB AND GUTTER TRANSITION

COLORADO SPRINGS

STORM DRAIN
CURB & GUTTER TRANSITION

APPROVED: Gayle Sturdivant, CITY ENGINEER
ISSUED: 7/8/24 | REVISED: | DRAWING NO. D–9B

Print Date: 11/4/2025
File Name: 23916DRN_18_StandardDetails.dgn
Horiz. Scale: 1:1 Vert. Scale:
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Sheet Revisions

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No Revisions:
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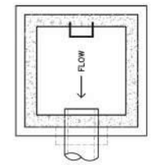
31ST ST & FONTANERO ST
STANDARD DETAILS

Designer: VSF
Detailer: DWD
Sheet Subset: DRN
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 18 of 27

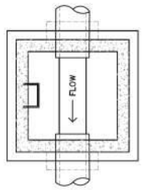
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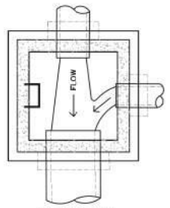
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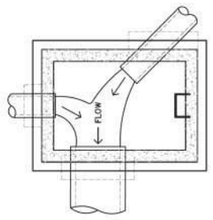
PLAN VIEW
(SQUARE BASE)



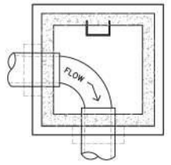
PLAN VIEW
PIPE THROUGH
(SQUARE BASE)



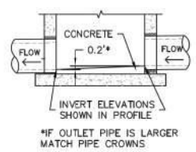
PLAN VIEW
THROUGH PIPE ONE LATERAL
(SQUARE BASE)



PLAN VIEW
ANGLED LATERALS
(SQUARE BASE)



PLAN VIEW
SHARP ANGLE
(SQUARE BASE)



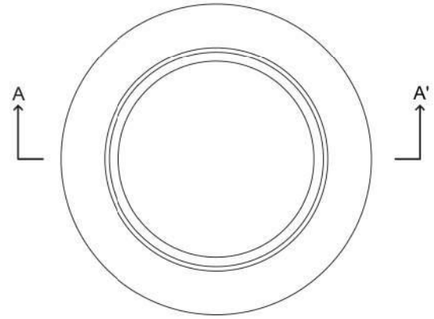
PRECAST SLAB BASE
(PROFILE)

COLORADO SPRINGS

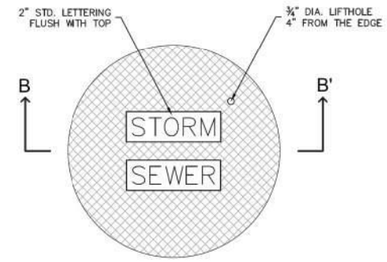
STORM DRAIN
TYPICAL INLET CHANNELIZATION

APPROVED: Gayle Sturdivant, CITY ENGINEER

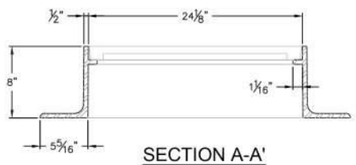
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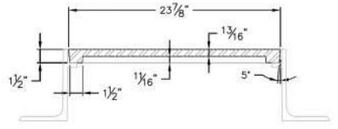
PLAN VIEW - RING



PLAN VIEW - COVER



SECTION A-A'



SECTION B-B'

NOTES:
1. DECORATIVE LIDS MAY BE USED WITH PRE-APPROVAL.
2. DECORATIVE LIDS SHALL NOT BE USED WHERE LIDS WILL BE IN THE SIDEWALK.

COLORADO SPRINGS

STORM DRAIN
STORM SEWER
FRAME AND COVER

APPROVED: Gayle Sturdivant, CITY ENGINEER

ISSUED:	REVISED:	DRAWING NO.
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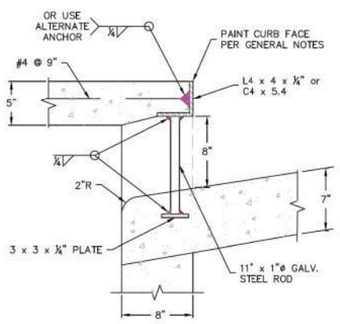
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STANDARD DETAILS

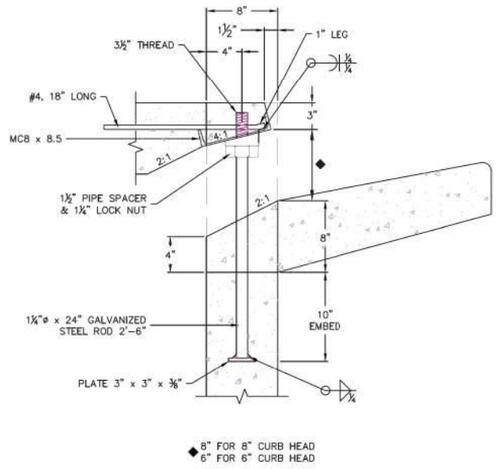
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Detailer: DWD
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Subset Sheets: 19 of 27

Project No./Code
Project #STM-REV25-0621
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Sheet Number

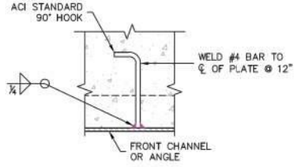
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INLET TYPE 1
OPENING DETAIL



INLET TYPE 2
OPENING DETAIL



ALTERNATE ANCHOR

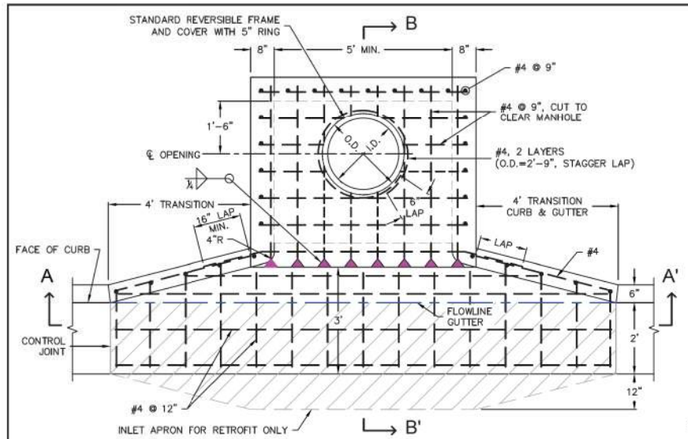
NOTE: PLACE ENTIRE ASSEMBLY PRIOR TO POURING CONCRETE

COLORADO SPRINGS

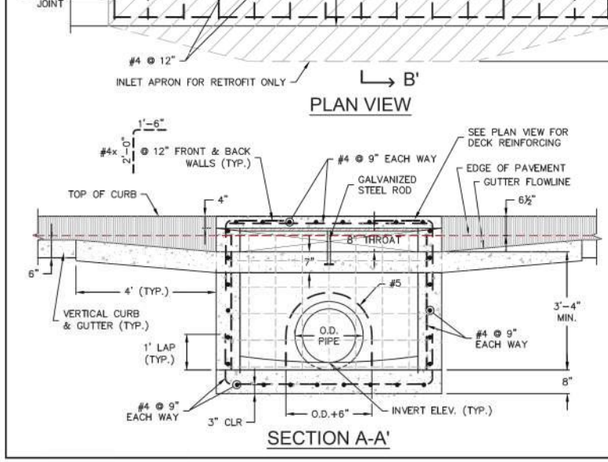
STORM DRAIN
CURB INLET OPENINGS

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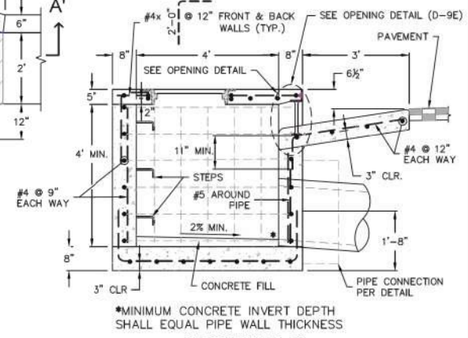
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PLAN VIEW



SECTION A-A'



*MINIMUM CONCRETE INVERT DEPTH SHALL EQUAL PIPE WALL THICKNESS

SECTION B-B'

COLORADO SPRINGS

STORM DRAIN
CURB INLET TYPE 1

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7/8/24		D-9F

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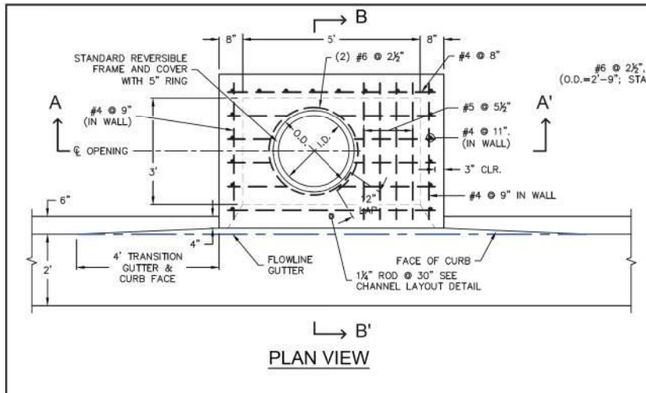
31ST ST & FONTANERO ST
STANDARD DETAILS

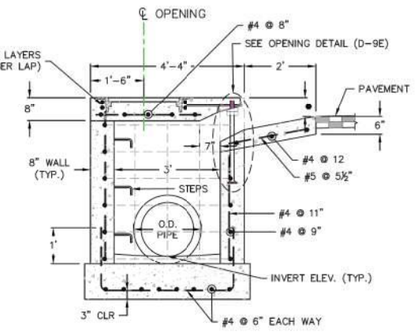
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Detailer:	DWD		
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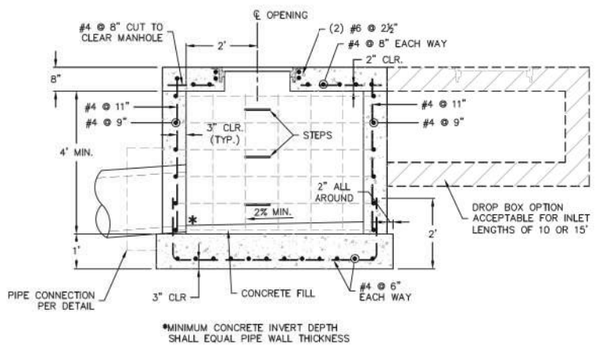
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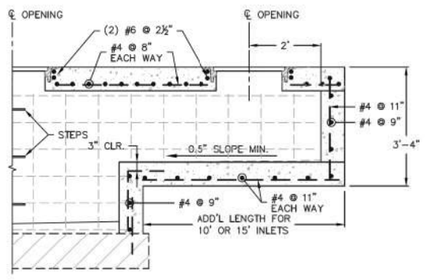
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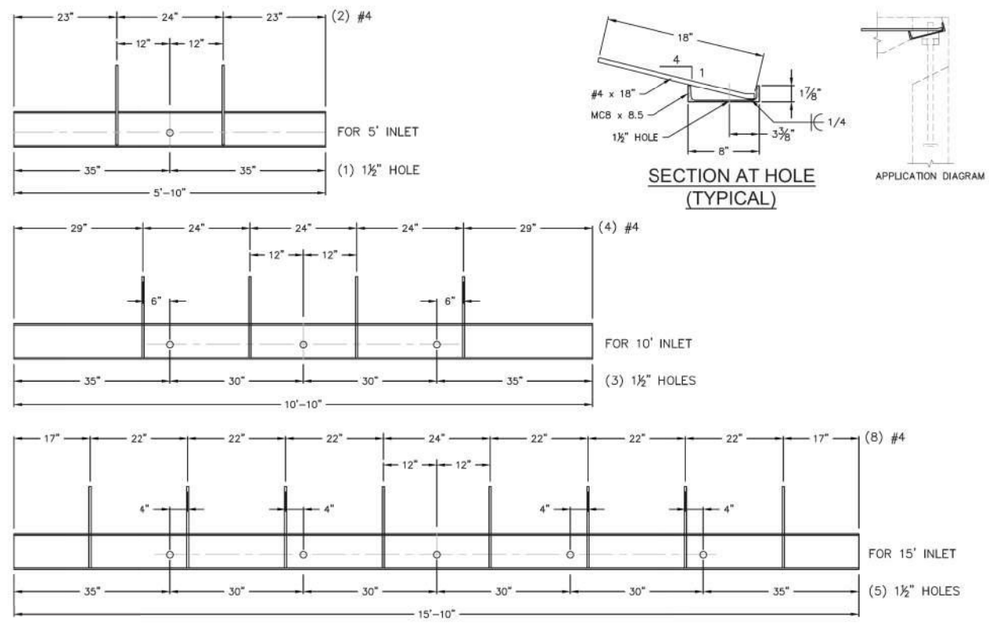








COLORADO SPRINGS	STORM DRAIN CURB INLET TYPE 2
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	ISSUED: 7/8/24 · REVISED: · DRAWING NO. D-9G



CHANNEL LAYOUT DETAILS

COLORADO SPRINGS	STORM DRAIN CURB INLET TYPE 2
	APPROVED: Gayle Sturdivant, CITY ENGINEER
	ISSUED: 7/8/24 · REVISED: · DRAWING NO. D-9H

Print Date: 11/4/2025	Sheet Revisions		
File Name: 23916DRN_21_StandardDetails.dgn	Date:	Comments	Init.
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Unit Information Unit Leader			

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31ST ST & FONTANERO ST
STANDARD DETAILS

Project No./Code
Project #STM-REV25-0621

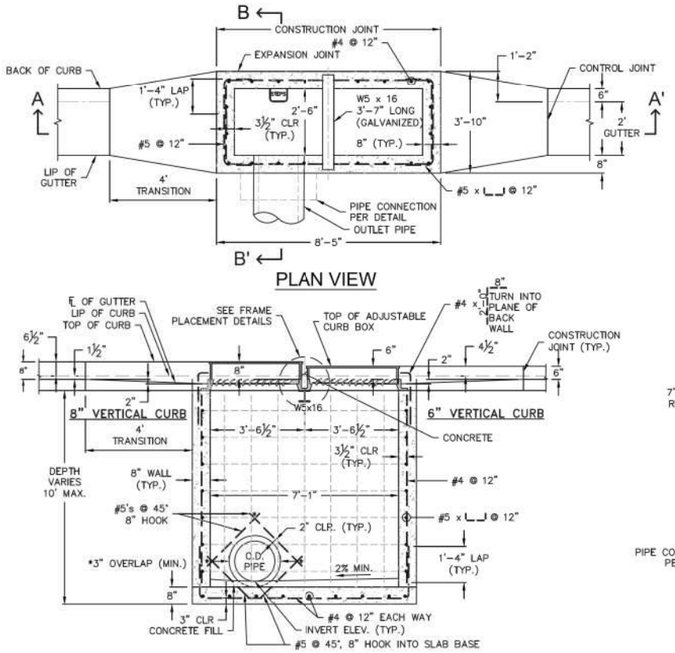
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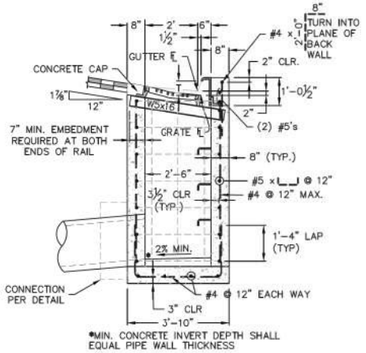
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PLAN VIEW

SECTION A-A'



SECTION B-B'

NOTE:
FOR INLETS GREATER THAN 10-FT IN DEPTH, SHOP DRAWINGS AND DESIGN ANALYSIS SHALL BE SUBMITTED FOR APPROVAL.

T = THROAT OPENING
- 6" FOR 6" VERT. CURB & GUTTER
- 8" FOR 8" VERT. CURB & GUTTER

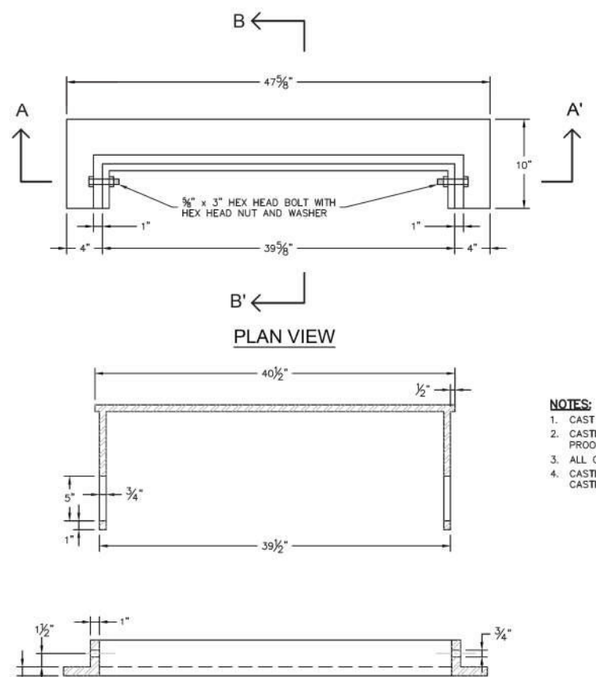
DROP FROM GUTTER FLOWLINE ELEVATION TO GRATE FLOWLINE ELEVATION (TRANSITION) IS 2"

COLORADO SPRINGS

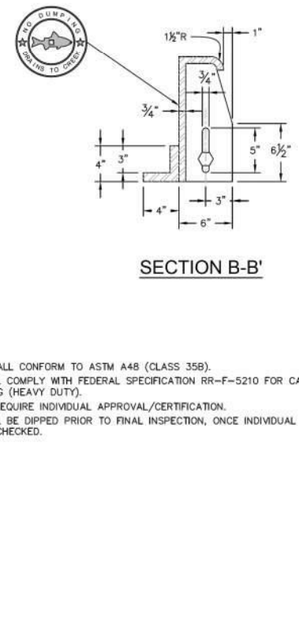
STORM DRAIN
CURB INLET TYPE 3 DOUBLE

APPROVED: Gayle Sturdivant
CITY ENGINEER

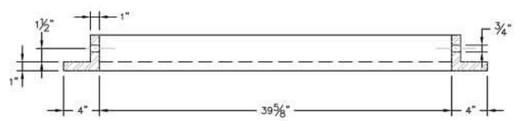
ISSUED:	REVISED:	DRAWING NO.
7/8/24		D-9J



PLAN VIEW



SECTION B-B'



SECTION A-A'

NOTES:
1. CAST IRON SHALL CONFORM TO ASTM A48 (CLASS 35B).
2. CASTING SHALL COMPLY WITH FEDERAL SPECIFICATION RR-F-5210 FOR CASTING PROOF LOADING (HEAVY DUTY).
3. ALL CASTING REQUIRE INDIVIDUAL APPROVAL/CERTIFICATION.
4. CASTING SHALL BE DIPPED PRIOR TO FINAL INSPECTION, ONCE INDIVIDUAL CASTING ARE CHECKED.

COLORADO SPRINGS

STORM DRAIN
CURB INLET TYPE 3
ADJUSTABLE CURB BOX

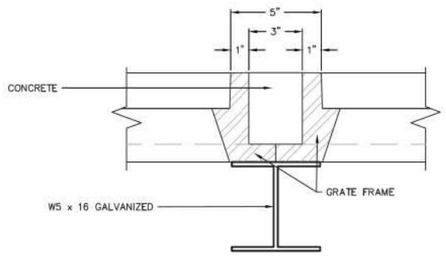
APPROVED: Gayle Sturdivant
CITY ENGINEER

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7/8/24		D-9K

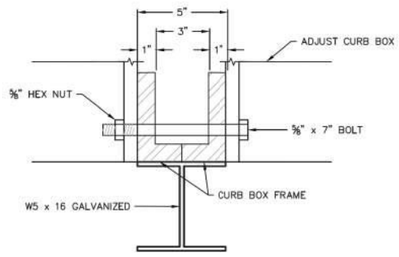
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FRAME PLACEMENT
SUPPORT RAIL DETAIL



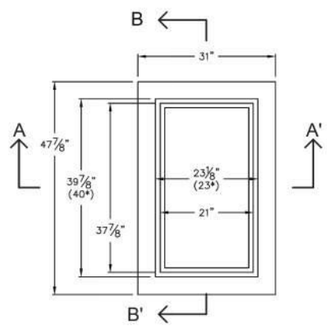
PLACEMENT OF ADJUSTED CURB
BOX ON SUPPORT RAIL DETAIL

COLORADO SPRINGS

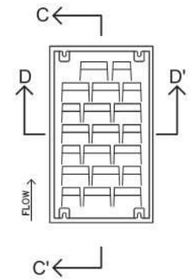
STORM DRAIN
CURB INLET TYPE 3 DOUBLE
SUPPORT RAIL DETAILS

APPROVED: Gayle Sturdivant
CITY ENGINEER

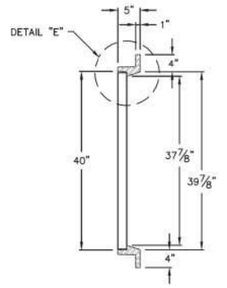
ISSUED:	REVISED:	DRAWING NO.
7/8/24		D-9L



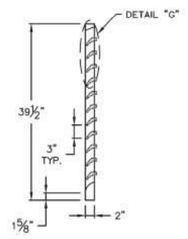
PLAN - FRAME



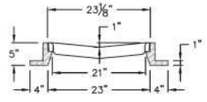
PLAN - GRATE



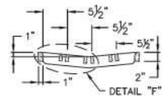
SECTION B-B'



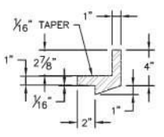
SECTION C-C'



SECTION A-A'

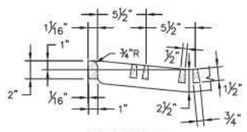


SECTION D-D'

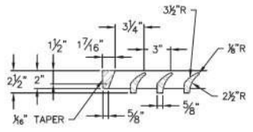


DETAIL E

NOTES:
1. CAST IRON SHALL CONFORM TO ASTM A48 (CLASS 35B).
2. CASTING SHALL COMPLY WITH FEDERAL SPECIFICATION RR-F-5210 FOR CASTING PROOF LOADING (HEAVY DUTY).
3. ALL CASTING REQUIRE INDIVIDUAL APPROVAL/CERTIFICATION.
4. CASTING SHALL BE DIPPED OR PAINTED PRIOR TO FINAL INSPECTION, ONCE INDIVIDUAL CASTING ARE CHECKED.



DETAIL F



DETAIL G

COLORADO SPRINGS

STORM DRAIN
CURB INLET TYPE 3
GRATE and FRAME

APPROVED: Gayle Sturdivant
CITY ENGINEER

ISSUED:	REVISED:	DRAWING NO.
7/8/24		D-9M

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Date:	Comments	Init.

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OLYMPIC CITY USA

WILSON &COMPANY
5755 Mark Dabling Blvd.
Suite 100
Colorado Springs, CO 80919
Phone: 719-520-5800
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No Revisions:
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31ST ST & FONTANERO ST
STANDARD DETAILS

Designer: VSF
Detailer: DWD
Sheet Subset: DRN
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 23 of 27

Project No./Code
Project #STM-REV25-0621
Bid #__-__
Sheet Number

811
Know what's below.
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General Notes:

1. All work shall be done in accordance with current City of Colorado Springs Engineering Division (the City) Standard Specifications.
2. The contractor shall obtain all required permits. For city permits contractors shall use the ACCELA on-line permit system. Once city permits are approved and paid, then appropriate scheduling and notifications shall be in ACCELA.
3. Concrete used for manholes and connections shall be a City-approved structural concrete mix design.
4. A minimum of 6-inches thick of granular bedding material shall be provided below all manholes.
5. Reinforcing bars shall be ASTM A615, Grade 60 deformed steel marked with bar designation, grade and mill marking.
6. Reinforcing shall have a minimum 2-inch clearance, except as noted.
7. Pipe entries into manholes are variable; the dimensions and reinforcing details shown are typical.
8. Manhole floors shall be channelized and finished with a City-approved concrete mix to a smooth surface that slopes towards the outlet (2% min./25% max. for manholes). Floor slope shall either be poured monolithic with the base or after floor and pipe openings are constructed. Epoxy between pipe and invert if there is a cold joint.
9. Stub-outs shall extend a minimum of 2-foot beyond outside wall surface of manholes and shall be plugged as approved by the Inspector.
10. Manhole covers installed within the driving surface shall match the roadway profile and cross slope and be recessed 1/4-inch maximum from the top of the pavement.
11. No formwork shall remain inside manholes after completion.
12. Concrete walls shall be formed on both sides. Casting of sidewalls against earth is not permitted.
13. Steps shall be installed for manholes with internal height greater than 30-inches at 16-inches spacing with the top step located 16 to 18-inches below the lid. Steps shall conform to AASHTO M-199.
14. Outer wall of pipe shall be a minimum of 6-inches from interior side walls and top of manholes.
15. All reinforcement dimensions are on-center (O.C.) unless otherwise noted.
16. Precast manholes may be used upon annual City acceptance of shop drawings and concrete mix design.
17. Precast base slab shall be poured monolithically with bottom riser section.
18. Precast base shall fit the conditions and locations for which they are intended without any field modifications. Bases which require field cutting or modification in order to fit the location intended will be rejected by the Inspector and removed and replaced by the contractor at no additional cost.
19. Storm sewers shall have tracer wire installed per the tracer wire detail prior to acceptance.
20. Manholes greater than 15-feet in depth shall be designed by a structural engineer per section 636 for the City Specifications and structural calculations shall be submitted with the drainage plan and profile drawings for review. If field conditions change and modifications to the manhole are required, modifications to the manhole will be designed by a structural engineer and calculation and drawing submitted to development review for acceptance.
21. Precast manholes shall have shop drawings submitted to the inspector at the time of installation and meet the requirements of ASTM C-478 and be designed per Section 636 of the City Standard Specifications.. If field conditions change and modifications to the precast manhole are required, modifications to the manhole will be designed and completed by the precast manufacturer. A letter will be provided to the inspector stating the modifications do not alter the structural integrity of the manhole.

Manhole Structure Size Schedule

Manhole Inside Diameter	90° Deflection	135° Deflection	180° Deflection
48"	18"	27"	30"
60"	27"	36"	42"
72"	33"	48"	48"

Note: Diameter shown in manhole structure size schedule is the internal pipe diameter. Table values are determined by assuming adjoining pipes are equal in diameter and as the maximum size allowed for adjoining pipes of equal diameter. Pipes may have different diameters than shown in the table as long as they provide a minimum structural leg of 6-inches.

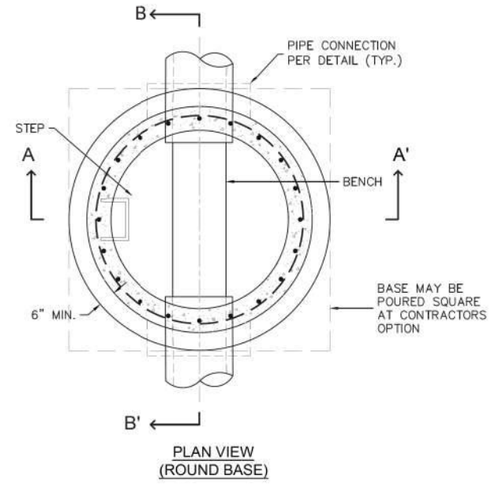
For structures with different deflection angles, pipe diameters, or combinations refer to the Nation Precast Concrete Association Manhole Sizing Recommendations at: Manhole Sizing Recommendation.pdf

COLORADO SPRINGS

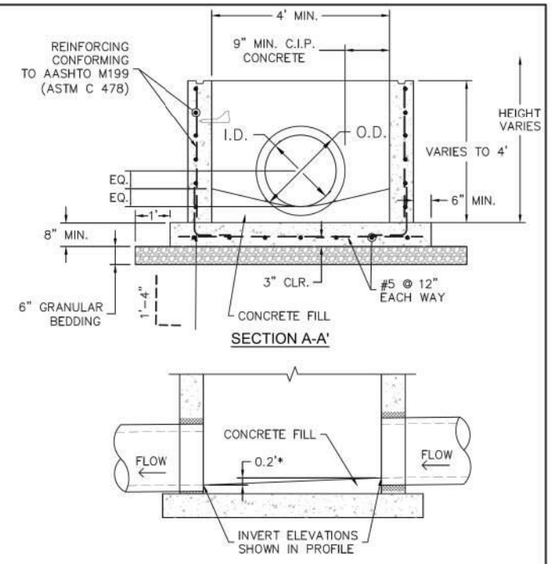
STORM DRAIN
MANHOLE GENERAL NOTES

APPROVED: Gayle Sturdivant
CITY ENGINEER

ISSUED:	REVISED:	DRAWING NO.
7/5/24		10A



PLAN VIEW
(ROUND BASE)



SECTION A-A'

*IF OUTLET PIPE IS LARGER
MATCH PIPE CROWNS

SECTION B-B'
PRECAST SLAB BASE

COLORADO SPRINGS

STORM DRAIN
MANHOLE TYPE II
(ROUND BASE)

APPROVED: Gayle Sturdivant
CITY ENGINEER

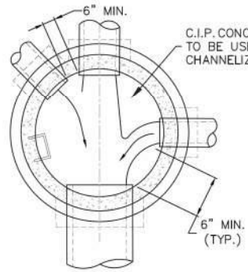
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7/5/24		10C

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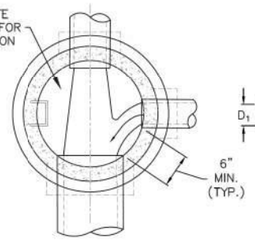
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File Name: 23916DRN_24_StandardDetails.dgn		Date:	Comments	Init.		5755 Mark Dabling Blvd. Suite 100 Colorado Springs, CO 80919 Phone: 719-520-5800 FAX: 719-520-0108	Revised:
Horiz. Scale: 1:1	Vert. Scale:						Void:
Unit Information	Unit Leader						

31ST ST & FONTANERO ST STANDARD DETAILS				Project No./Code
				Project #STM-REV25-0621
Designer: VSF	Structure Numbers	CSG-E.00-10.57A		Bid #__-__
Detailer: DWD				
Sheet Subset: DRN	Subset Sheets: 24 of 27			Sheet Number

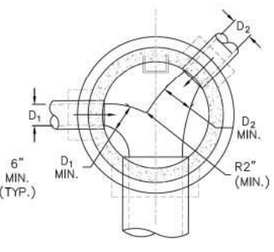
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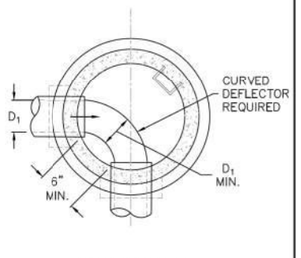
THROUGH PIPE TWO LATERAL (ROUND BASE)



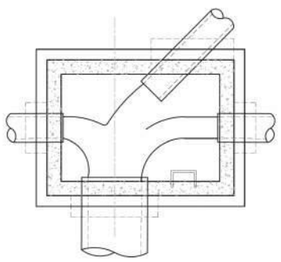
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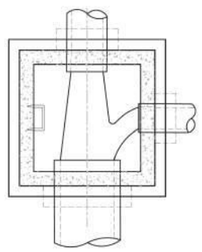
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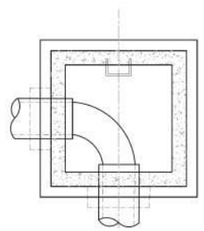
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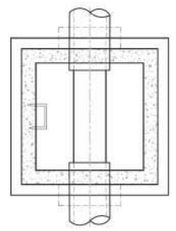
ANGLED LATERALS (BOX BASE)



THROUGH PIPE ONE LATERAL (BOX BASE)

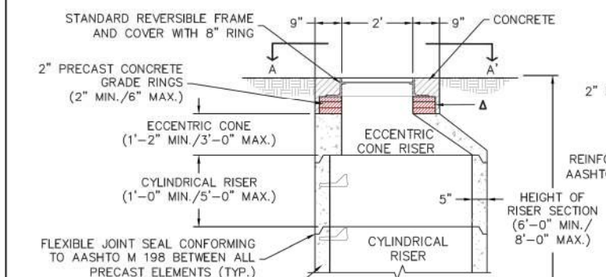


SHARP ANGLE (BOX BASE)



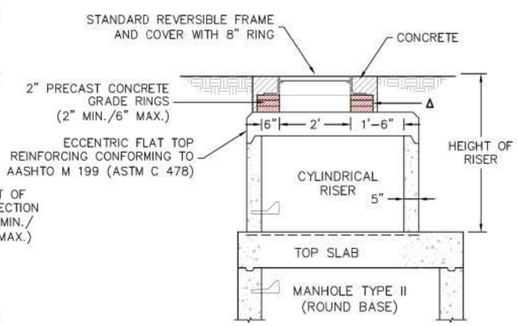
PLAN VIEW (BOX BASE)

COLORADO SPRINGS	STORM DRAIN MANHOLE TYPE I & II CHANNELIZATION
APPROVED:	Gayle Sturdivant, CITY ENGINEER
ISSUED: 7/5/24	REVISED:
DRAWING NO.	10D



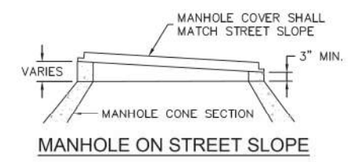
PRECAST RISERS SHALL CONFORM TO ASTC C-498

RISERS AND CONES SECTION DETAIL

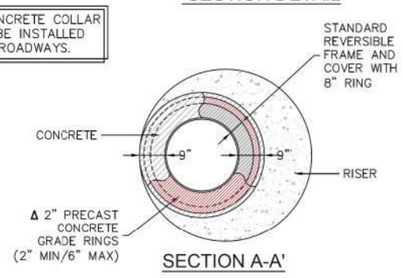


ECCENTRIC FLAT TOP SECTION DETAIL

Δ A CONCRETE COLLAR SHALL BE INSTALLED IN ALL ROADWAYS.



MANHOLE ON STREET SLOPE



SECTION A-A'

NOTES:

1. ECCENTRIC FLAT TOP SECTION IS ONLY ALLOWED WHEN THE HEIGHT OF THE RISER IS LESS THAN 3-FEET. FOR ALL OTHER HEIGHTS, THE ECCENTRIC CONE SECTION IS TO BE USED.
2. TOP SLAB SECTION CAN BE OMITTED FOR MANHOLE TYPE II (ROUND BASE) IF THE INTERNAL DIAMETER OF THE MANHOLE IS EQUAL TO THE RISER SECTIONS.

COLORADO SPRINGS	STORM DRAIN MANHOLE RISERS AND LIDS (PRECAST)
APPROVED:	Gayle Sturdivant, CITY ENGINEER
ISSUED: 7/5/24	REVISED:
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31ST ST & FONTANERO ST STANDARD DETAILS

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	DWD		
Sheet Subset:	DRN	Subset Sheets: 25 of 27	

Project No./Code

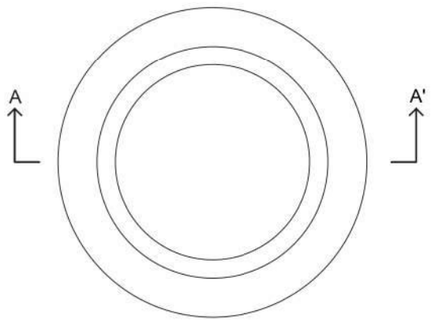
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Bid #__-__

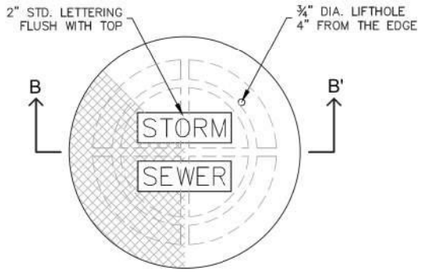
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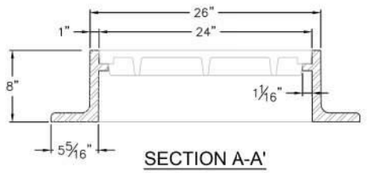
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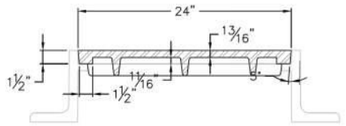
PLAN VIEW - RING



PLAN VIEW - COVER

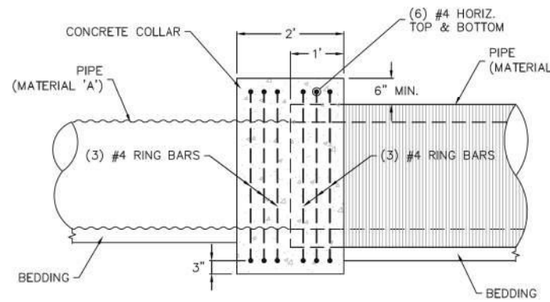


SECTION A-A'

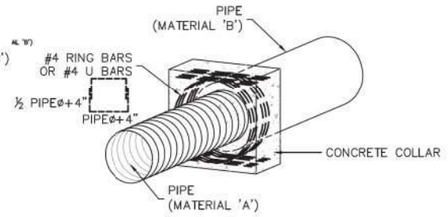


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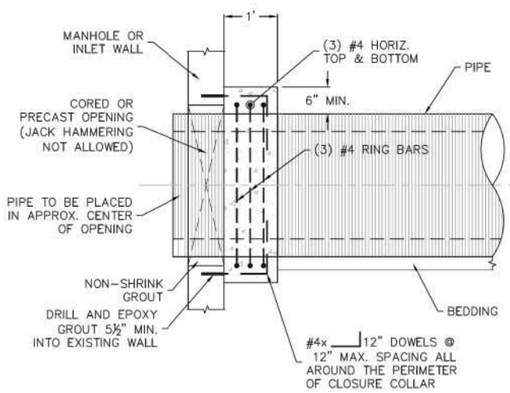
COLORADO SPRINGS	STORM DRAIN STORM SEWER FRAME AND COVER
	APPROVED: Gayle Sturdivant, CITY ENGINEER
	ISSUED: 7/5/24 · REVISED: · DRAWING NO. 10F



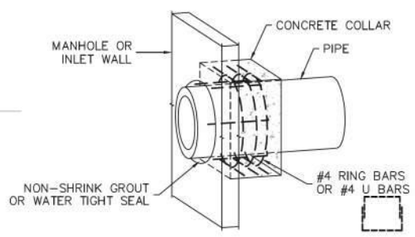
PIPE to PIPE CONNECTION



PIPE TO PIPE CONNECTION WITH ENGINEERING APPROVAL IN RETRO-FIT APPLICATIONS.



PIPE to STRUCTURE CONNECTION



COLORADO SPRINGS	STORM DRAIN PIPE CONNECTION DETAIL
	APPROVED: Gayle Sturdivant, CITY ENGINEER
	ISSUED: 7/5/24 · REVISED: · DRAWING NO. 10G

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Colorado Springs, CO 80919
Phone: 719-520-5800
FAX: 719-520-0108

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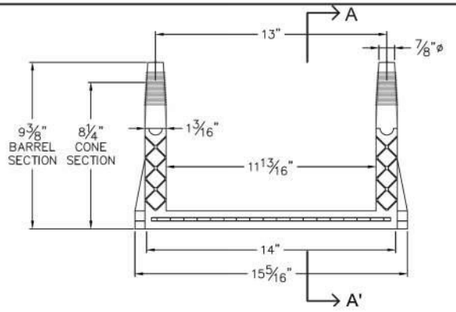
31ST ST & FONTANERO ST
STANDARD DETAILS

Designer:	VSF	Structure Numbers	CSG-E.00-10.57A
Detailer:	DWD		
Sheet Subset:	DRN	Subset Sheets: 26 of 27	

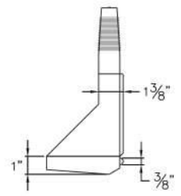
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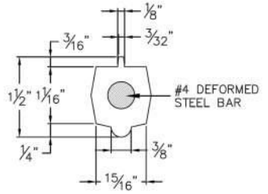
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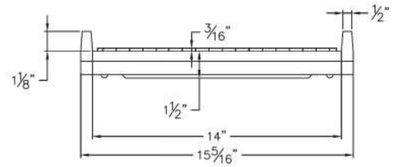


PLAN VIEW

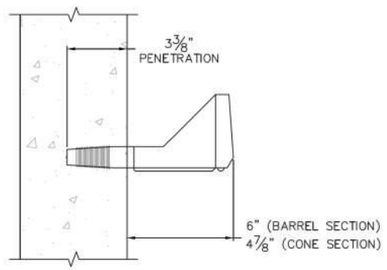


SIDE VIEW





FRONT VIEW



SECTION A-A'

NOTES:

1. STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURES SHALL HAVE A 9⅜–INCH LEG AND SHALL PROJECT FROM THE WALL 6–INCHES.
2. STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE A 8¼–INCH LEG AND SHALL PROJECT FROM THE WALL 4⅞–INCHES.
3. ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3⅜–INCHES.
4. INSTALLED STEPS SHALL BE CAPABLE OF WITH STANDING A PULL OUT FORCE OF 2500–LBS. PER LEG.
5. THIS STEP CAN ALSO BE USED IN TOE POCKET INSTALLATIONS PROVIDED 5–INCHES OF TOE CLEARANCE IS ALLOWED.

COLORADO SPRINGS

STORM DRAIN MANHOLE STEPS

APPROVED: Gayla Sturdivant
CITY ENGINEER

ISSUED: 7/5/24 | REVISED: | DRAWING NO. 10J

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Unit Information Unit Leader

Sheet Revisions		
Date:	Comments	Init.

COLORADO SPRINGS
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No Revisions:
Revised:
Void:

31ST ST & FONTANERO ST
STANDARD DETAILS

Designer: VSF
Detailer: DWD
Sheet Subset: DRN
Structure Numbers: CSG-E.00-10.57A
Subset Sheets: 27 of 27

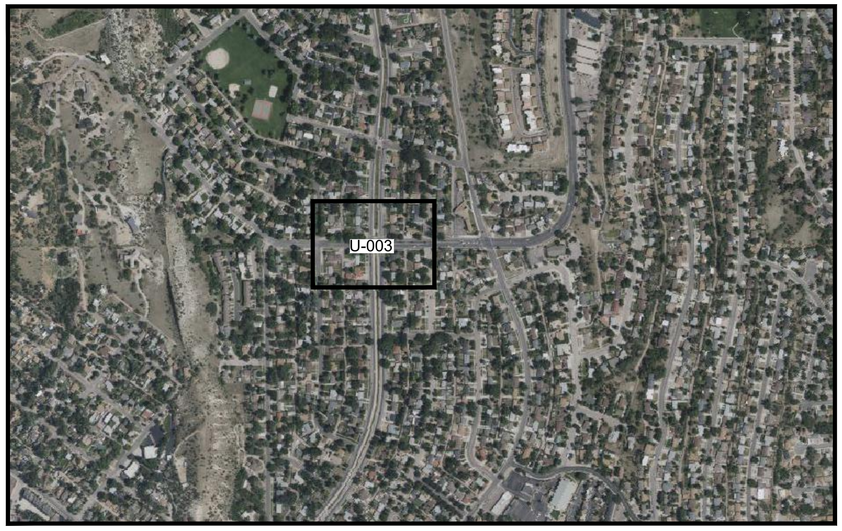
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Bid #__-__
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SUBSURFACE UTILITY ENGINEERING INVESTIGATION

FONTANERO ST. AND 31ST INTERSECTION IMPROVEMENTS
COLORADO SPRINGS, COLORADO

PREPARED FOR:

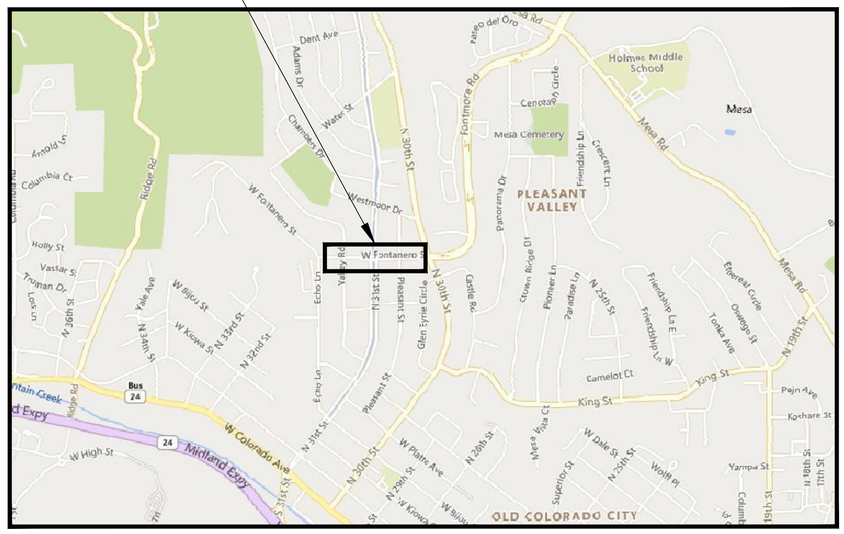
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KEY MAPS
N.T.S

SURVEY CONTROL
SURVEY CONTROL POINTS ARE NOT SHOWN ON KEY MAP. FOR SURVEY CONTROL LOCATIONS SEE SHEET U-002 SURVEY CONTROL TABLE.

PROJECT LOCATION



VICINITY MAP
N.T.S.

SHEET INDEX

SHEET NO.	DESCRIPTION
U-001	COVER SHEET, KEY MAP & VICINITY MAP
U-002	GENERAL NOTES, SURVEY CONTROL & LEGEND
U-003	UTILITY INVESTIGATION PLAN SHEETS

UTILITY INVESTIGATION STATEMENT OF ASCE 38 COMPLIANCE
THE UTILITIES DEPICTED HAVE BEEN INVESTIGATED IN GENERAL ACCORDANCE WITH THE ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA," STANDARD AND SHOWN AT THEIR ACHIEVED QUALITY LEVELS. ALL OTHER INFORMATION HAS BEEN PROVIDED BY OTHERS AND INCLUDED AS REFERENCE ONLY.

811

T2 utility engineers
1-855-222-T2UE | WWW.T2UE.COM
DENVER
150 CAPITAL DR, SUITE 190
GOLDEN, CO. 80401
TEL: (720)432-9873

UTILITY INVESTIGATION PLANS
FONTANERO ST. AND 31ST INTERSECTION IMPROVEMENTS
WILSON & CO.
COLORADO SPRINGS, CO

#	DATE	DESCRIPTION	BY

COLORADO LICENSED
KRISTEN LEE MUEHLBEIER
62827
10/31/2025
PROFESSIONAL ENGINEER

DATE	03/13/2023
DRAWN	BF
SURVEYED	EPS
CHECKED	KM
PROJECT #	CO06300100

SHEET TITLE
COVER SHEET

SHEET NUMBER
U-001

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811 RECORDS RESEARCH RESPONSES

OWNER	UTILITY	ABBREVIATION	CONTACT	PHONE/EMAIL	OFFICIAL 811 RESPONSE	ADDITIONAL INFORMATION OBTAINED	NOTE
COLORADO SPRINGS UTILITIES	WATER, ELECTRIC, GAS, SANITARY SEWER	COSU	COLORADO SPRINGS UTILITIES	(719)448-4800 / MAPS.CSU.ORG	DID NO LOCATE	Y	SEE ENGINEERING NOTE A
CITY OF COLORADO SPRINGS PUBLIC WORKS	STORM SEWER AND TRAFFIC	CSPPW	ANDREW VIGIL	(719)385-2209 / ANDREW.VIGIL@COLORADOSPRINGS.GOV / HTTPS://GIS.COLORADOSPRINGS.GOV/HTML5VIEWER/?VIEWER=SPRINGSVIEW	MAPS PROVIDED	Y	SEE ENGINEERING NOTE B
CENTURY LINK	TELEPHONE AND FIBER	CLN	USIC - CENTURY LINK	(800)778-9140 / NATIONALRELO@CENTURYLINK.COM	CLEAR	N	SEE ENGINEERING NOTE C AND D

ENGINEERING NOTES

A.) MAPS OF CITY OF COLORADO SPRINGS UTILITIES OBTAINED FROM PUBLIC GIS ON 01/18/2023 OUTSIDE OF 811 REQUEST. ADDITIONALLY, AS-BUILTS WERE OBTAINED ON 01/24/2023.

B.) MAPS OF CITY OF COLORADO SPRINGS PUBLIC WORKS OBTAINED FROM PUBLIC GIS ON 01/18/2023 OUTSIDE OF 811 REQUEST.

C.) CENTURY LINK RESPONDED "CLEAR" VIA THE 811 SYSTEM. HOWEVER, DURING THE INVESTIGATION, CENTURY LINK FACILITIES WERE FOUND TO BE PRESENT WITHIN THE PROJECT LIMITS. ADDITIONAL UTILITIES MAY EXIST AND ARE NOT DEPICTED ON THESE PLANS DUE TO LIMITED UTILITY RECORD INFORMATION.

D.) CENTURY LINK, INC. CHANGED IT'S NAME TO LUMEN TECHNOLOGIES, INC. EFFECTIVE 09/18/2020. CENTURY LINK ACQUIRED LEVEL3 COMMUNICATIONS, INC. AS OF 01/01/2017. FACILITIES LABELED AS LUMEN, CENTURY LINK, OR LEVEL3 ON THIS PLAN SET ARE DEPICTED BASED ON THE SIGNAGE, LABELS, OR MARKS OBSERVED BY T2 WHILE IN THE FIELD.

1. SUBSURFACE UTILITY ENGINEERING IS A PROFESSIONAL PRACTICE DEFINED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE.) T2UE CONDUCTS UTILITY INVESTIGATIONS IN ACCORDANCE WITH *ASCE 38: STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.* IDENTIFYING AND MAPPING UNDERGROUND UTILITIES IS A RESULT OF GATHERING EVIDENCE FROM VARIOUS SOURCES AND EXACT UTILITY LOCATIONS ARE NOT CONFIRMED UNLESS VISUALLY EXPOSED AND SURVEYED, AND THEN ONLY AT THOSE SPECIFIC EXPOSED LOCATIONS. ADDITIONALLY, T2UE CANNOT GUARANTEE THAT ALL UTILITIES HAVE BEEN DISCOVERED AND DEPICTED.
2. IN ACCORDANCE WITH 2018 COLORADO REVISED STATUES TITLE 9 ARTICLE 1.5 T2 UES INC. SUBMITTED A SUBSURFACE UTILITY ENGINEERING NOTIFICATION TO THE COLORADO 811 ASSOCIATION ON 01/18/2023.
3. T2UE INVESTIGATED ALL UTILITIES, INCLUDED WITHIN THE SCOPE OF WORK, INSIDE THE PROJECT LIMITS. THOSE UTILITIES ARE DEPICTED AS INDICATED IN THE LEGEND. OTHERS PROVIDED ALL OTHER INFORMATION, AND T2UE DISCLAIMS RESPONSIBILITY FOR ITS ACCURACY.
4. INVESTIGATIONS OF DEPICTED UTILITIES WERE COMPLETED ON 02/02/2023. T2UE DISCLAIMS RESPONSIBILITY FOR NEW INSTALLATIONS OR ALTERATIONS TO EXISTING UTILITIES AFTER THIS DATE. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS INVESTIGATION PRIOR TO FINAL DESIGN AND/OR CONSTRUCTION.
5. UTILITY SIZE AND MATERIAL ARE SHOWN IF AVAILABLE FROM RECORD INFORMATION. ADDITIONALLY, FIELD OBSERVATIONS WERE CONDUCTED, WHERE POSSIBLE, TO CORROBORATE AND SUPPLEMENT RECORD INFORMATION BUT DO NOT GUARANTEE ITS ACCURACY OR COMPLETENESS. PIPE DIAMETERS ARE NOMINAL AND NOT EXACT, UNLESS OTHERWISE NOTED.
6. PROFESSIONAL ASSISTANCE IS RECOMMENDED IN SELECTING LOCATIONS FOR QUALITY LEVEL A DATA FOR SPECIFIC DESIGN DECISIONS.
7. THIS INVESTIGATION DEPICTS UTILITIES FOR PLANNING AND DESIGN PURPOSES AND NOT FOR CONSTRUCTION. FOR DAMAGE PREVENTION DURING CONSTRUCTION, COMPLY WITH APPLICABLE ONE-CALL LAWS(CALL 811).
8. THESE PLANS HAVE BEEN PREPARED FOR THE USE OF T2UE'S CLIENT AND MAY NOT BE USED, REPRODUCED OR RELIED UPON BY THIRD PARTIES EXCEPT AS AGREED BY T2UE AND ITS CLIENT OR AS REQUIRED BY LAW.
9. AS DEFINED BY THE PROJECT SCOPE, T2UE ATTEMPTED TO FIND UNDOCUMENTED UTILITIES DEPICTED AND LABELED AS UNKNOWN UTILITIES ON THE PLAN SET, AS THE HAVE NO CORRELATED RECORDS OR VISIBLE APPURTENANCES TO DETERMINE FUNCTION TYPE. HOWEVER, UNDOCUMENTED UTILITIES MAY BE PRESENT IN THE PROJECT AREA THAT WERE NOT DISCOVERABLE BY THE SCOPED EFFORT AND THEREFORE NOT DEPICTED.
10. AS PER PROJECT SCOPE, THE POSITIONING AND SIZE OF SUBSURFACE UTILITY VAULTS WERE NOT INCLUDED AS PART OF THIS INVESTIGATION. IF FOUND TO BE IN CONFLICT WITH PROPOSED PLANS, THE POSITIONING AND SIZE OF VAULTS SHOULD BE CONFIRMED.
11. UNDER THE PROJECT SCOPE, THE FOLLOWING UTILITIES WERE EXPRESSLY EXCLUDED FROM THIS INVESTIGATION: LANDSCAPE IRRIGATION SYSTEMS, TRAFFIC LOOP DETECTION DEVICE, CTHODIC PROTECTION SYSTEMS AND THEIR APPURTENCES, SEWER LATERALS AND UNDERGROUND STORAGE TANKS / ASSOCIATED PIPING OR SEPTIC SYSTEMS.
12. UTILITIES ARE GENERALLY DEPICTED BY A SINGLE LINE. HOWEVER LARGER UTILITIES (12" AND GREATER) MAY BE DEPICTED AT THEIR REPORTED WIDTH CENTERED OVER THE ACTUAL QUALITY LEVEL RESULTS. THEREFORE, ANY UTILITY EDGES SHOWN ARE FOR SCHEMATIC DEPICTION ONLY AND SHOULD NOT BE CONSIDERED RELIABLE FOR DESIGN. IF EXACT EDGES OF UTILITY ARE NEEDED, QLA DATA IS REQUIRED.
13. NON-CONDUCTIVE UTILITY PIPES, WHERE TRACER WIRE IS AVAILABLE, ARE DESIGNATED AND LABELED QLB. HOWEVER, DUE TO THE UNKNOWN WIRE INSTALLATION MEANS AND METHODS DURING CONSTRUCTION, THE ALIGNMENT LOCATION OF THE TRACER WIRE MAY BE DIFFERENT FROM THE ALIGNMENT LOCATION OF THE ACTUAL UTILITY PIPE. TYPE AND QUANTITY OF NON-CONDUCTIVE PIPE MAY ALSO NOT BE REFLECTED DUE TO THE NATURE OF GEOPHYSICS.
14. OVERHEAD UTILITIES ARE OT ASSIGNED A QUALITY LEVEL, UNLESS OTHERWISE NOTED.
15. T2 UES, INC. PERFORMED QLA TEST HOLES FROM 09/08/2025 TO 09/16/2025. THE INFORMATION GATHERED FROM THE QLA TEST HOLES HAS BEEN INCORPORATED INTO THESE PLANS.

SUBSURFACE UTILITY ENGINEERING SYMBOLS

- SANITARY SEWER MANHOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- GAS VALVE
- UTILITY POLE
- STORM DRAIN INLET
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN
- TELEPHONE RISER
- EDGE OF CONCRETE
- GUY ANCHOR

UTILITY LINETYPES

- OVERHEAD ELECTRIC LINE
- ELECTRIC LINE
- TELEPHONE LINE
- OVERHEAD TELEPHONE LINE
- FIBER OPTIC TELEPHONE LINE
- OVERHEAD CATV LINE
- NATURAL GAS LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- WATER LINE
- CONCRETE LINE
- UNKOWN LINE
- ASCE 38 INVESTIGATION BOUNDARY LINE
- END/ LOSS OF SIGNAL
- LIMITS OF ASCE 38 INVESTIGATION
- CHANGE OF ASCE 38 QUALITY LEVEL
- END OF UTILITY
- (UTILITY OWNER)-(SIZE AND/OR TYPE)- (ASCE QUALITY LEVEL)

COP-36"VCP-QLD

ABBREVIATIONS

ABDN	ABANDONED
ACP	ASBESTOS CONCRETE PIPE
CCTV	CLOSED CIRCUIT TELEVISION
CTV	CABLE TELEVISION
CBC	CONCRETE BOX CULVERT
CCP	CONCRETE CYLINDER PIPE
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CU	COPPER PIPE
DIP	DUCTILE IRON PIPE
EL	ELEVATION
FOT	FIBER OPTIC TELEPHONE
FOCT	FIBER OPTIC CABLE TELEVISION
INV	INVERT
OH	OVERHEAD
OHCTV	OVERHEAD CABLE TELEVISION
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD TELEPHONE
PE	POLYETHYLENE PIPE
PP	PLASTIC PIPE
PRIV	PRIVATE
SSMH	SANITARY SEWER MANHOLE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
STL	STEEL
TELE	TELEPHONE
TH	TESTHOLE
TN	TOP OF NUT
UNK	UNKNOWN
VCP	VITRIFIED CLAY PIPE

UTILITY QUALITY LEVELS

(OBTAINED FROM ASCE PUBLICATION CI/ASCE STANDARD 38)

- QUALITY LEVEL "D" (QLD)
  INFORMATION DERIVED FROM EXISTING RECORDS AND/OR ORAL RECOLLECTIONS.
- QUALITY LEVEL "C" (QLC)
  INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL "D" INFORMATION.
- QUALITY LEVEL "B" (QLB)
  INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. THIS INFORMATION IS SURVEYED TO PROJECT TOLERANCES.
- QUALITY LEVEL "A" (QLA)
  PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES AT A SPECIFIC POINT. DIAMETERS SHOWN ARE VERIFIED VISUALLY AND MAY NOT BE EXACT.

SURVEY CONTROL

PROJECT NORTHINGS, EASTINGS AND ELEVATIONS ARE BASED ON AND TIED INTO CONTROL PROVIDED IN SURVEY DIAGRAM TITLED "31ST STREET CAMP CREEK DRAINAGE AND ROADWAY IMPROVEMENTS PROJECT NO. R13-071 LI" PREPARED BY EDWARD JAMES SURVEYING, DATED 09/28/2018. 1. THE BENCHMARK FOR THIS PROJECT IS FIMS F150 HAVING A PUBLISHED ELEVATION OF 6073.67 US SURVEY FEET. 2. THE COORDINATES FOR THIS PROJECT ARE STATE PLANE COLORADO CENTRAL ZONE. THE PROJECT COORDINATES ARE SHIFTED FROM THE PUBLISHED VALUE FOR F150. TO RELATE THIS PROJECT TO FIMS USING FIMS F150, SUBTRACT 0.23' FROM THE PROJECT NORTHING AND 0.52' FROM THE PROJECT EASTING.

CP #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1371829.25	3178809.94	6110.69	1" COPPER MARKER WITH PUNCH MARK AND STAMPED CP1
2	1374800.29	3179586.72	6179.57	1" COPPER MARKER WITH PUNCH MARK AND STAMPED CP2
3	1374912.82	3180672.42	6209.08	1" COPPER MARKER WITH PUNCH MARK AND STAMPED CP3
4	1378785.66	3179552.50	6261.14	1" COPPER MARKER WITH PUNCH MARK AND STAMPED CP4
150	1369238.37	3180400.63	6073.67	FIMS F150

UTILITY DETECTION EQUIPMENT UTILIZED

RADIODETECTION 8100PCL
VIVAX METROTECH 810
PIPEHORN 800HL
IDS 200 / 600 MHZ HI MOD GPR
JAMES DUCT HUNTER DETECTABLE RODDER
SCHONDSTEDT MAGNETOMETER

UTILITY INVESTIGATION STATEMENT OF ASCE 38 COMPLIANCE

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150 CAPITAL DR, SUITE 190
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UTILITY INVESTIGATION PLANS

FONTANERO ST. AND 31ST INTERSECTION IMPROVEMENTS

WILSON & CO.

COLORADO SPRINGS, CO

BY	DATE	DESCRIPTION

COLORADO LICENSED
KRISTEN LEE MUHLBEIER
62827
10/31/2025
PROFESSIONAL ENGINEER

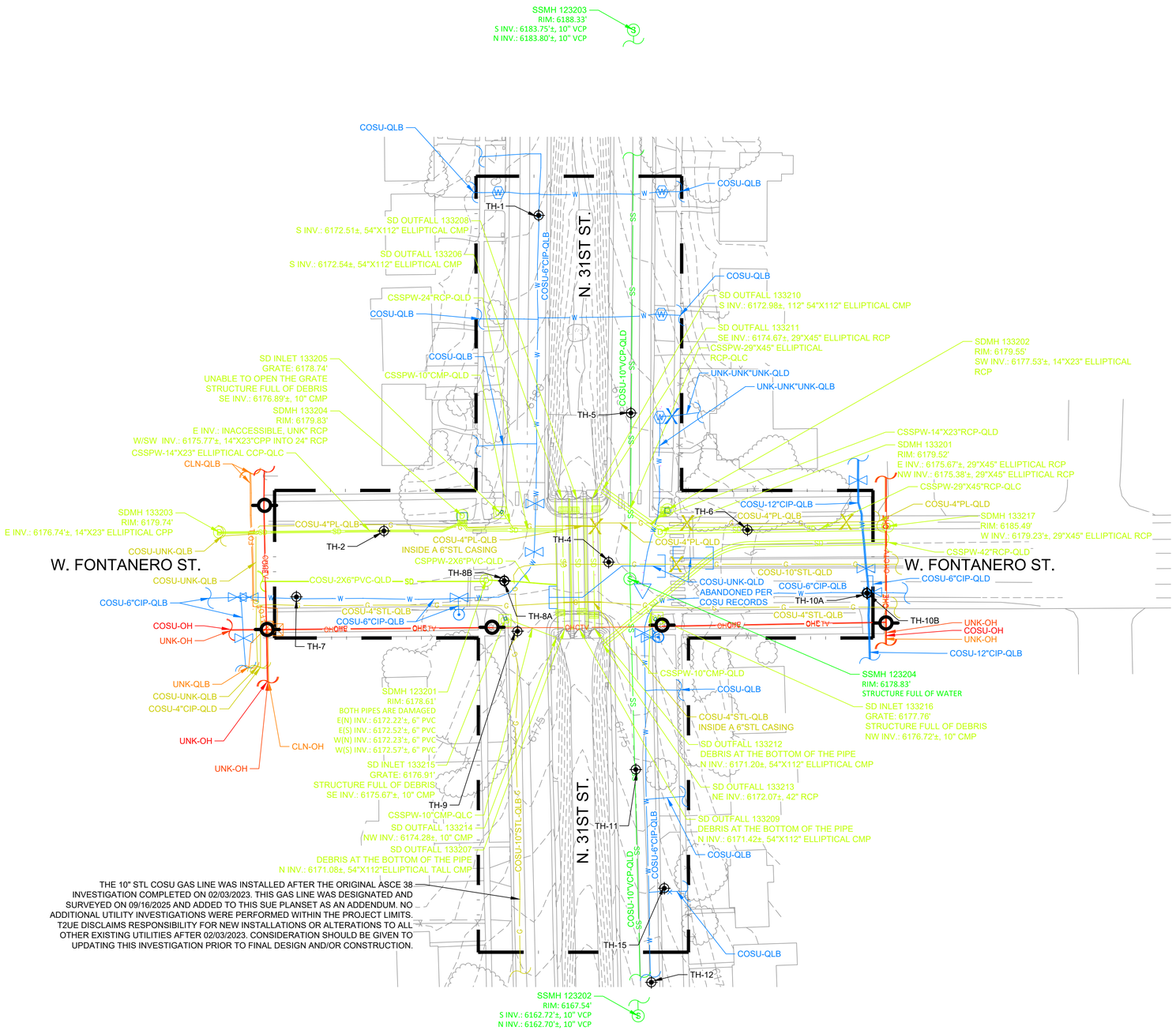
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CHECKED	KM
PROJECT #	CO06300100

SHEET TITLE
STANDARD SHEET

SHEET NUMBER
U-002

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SCALE: 1"=40'
40' 20' 0 40'



THE 10" STL COSU GAS LINE WAS INSTALLED AFTER THE ORIGINAL ASCE 38 INVESTIGATION COMPLETED ON 02/03/2023. THIS GAS LINE WAS DESIGNATED AND SURVEYED ON 09/16/2025 AND ADDED TO THIS SUE PLANSET AS AN ADDENDUM. NO ADDITIONAL UTILITY INVESTIGATIONS WERE PERFORMED WITHIN THE PROJECT LIMITS. T2UE DISCLAIMS RESPONSIBILITY FOR NEW INSTALLATIONS OR ALTERATIONS TO ALL OTHER EXISTING UTILITIES AFTER 02/03/2023. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS INVESTIGATION PRIOR TO FINAL DESIGN AND/OR CONSTRUCTION.

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UTILITY INVESTIGATION PLANS

FONTANERO ST. AND 31ST INTERSECTION IMPROVEMENTS

WILSON & CO.

COLORADO SPRINGS, CO

NO.	DATE	DESCRIPTION	BY
1	10/31/2025	ADDENDUM	KM

COLORADO LICENSED
KIRSTEN LEE MUNIBEER
62827
10/31/2025
PROFESSIONAL ENGINEER

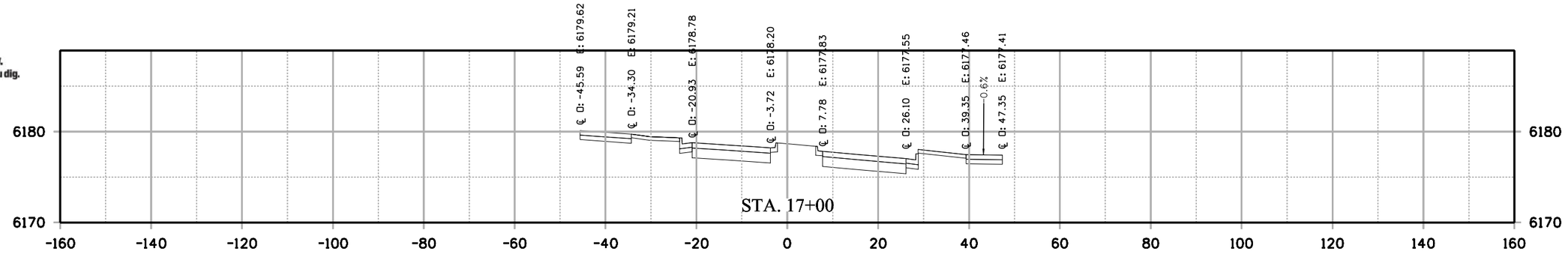
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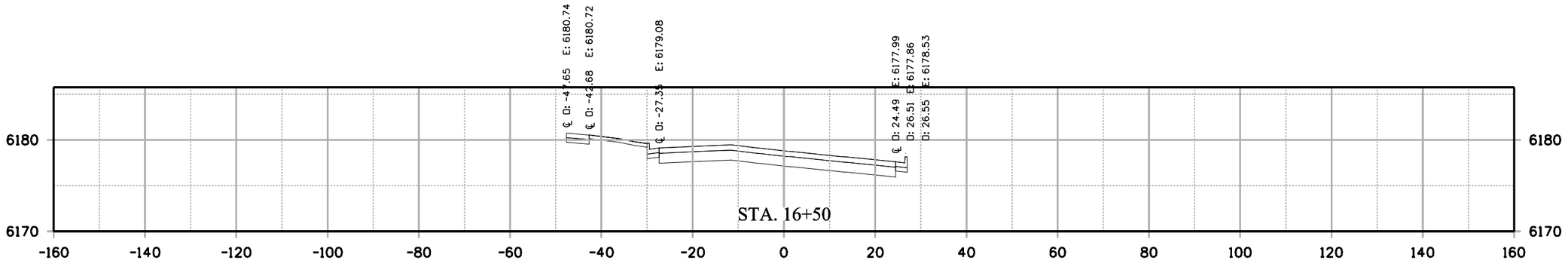
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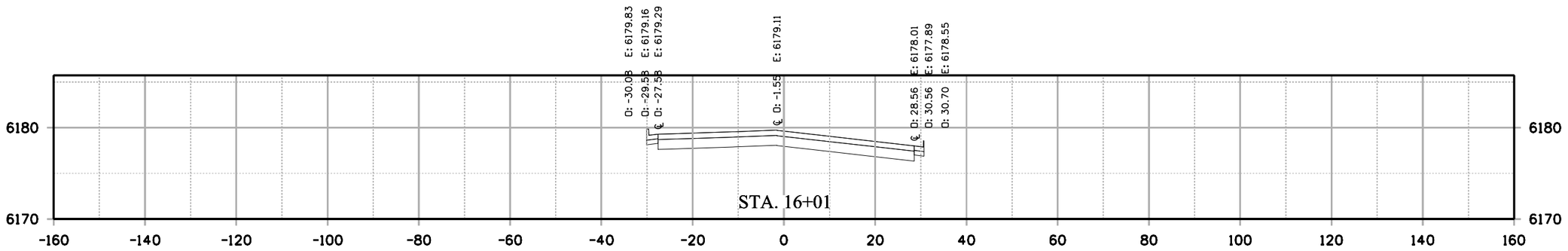
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Sheet Revisions		
Date:	Comments	Init.

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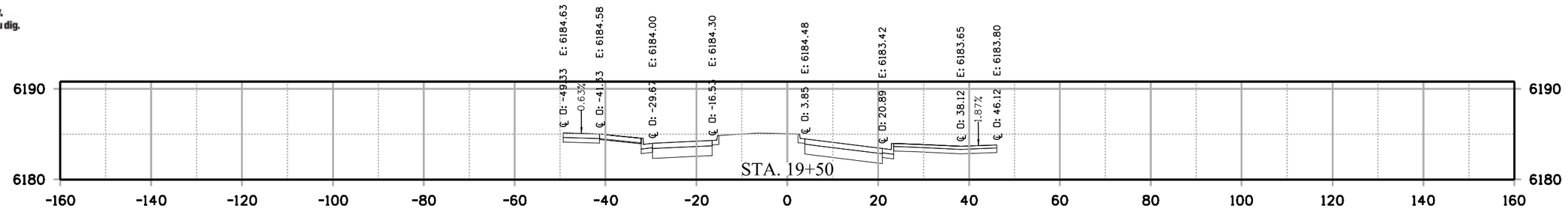
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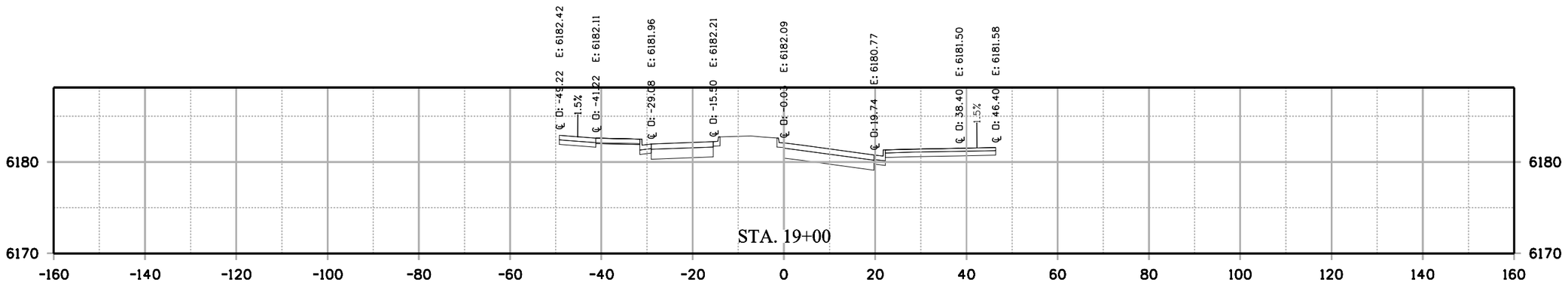
31ST ST & FONTANERO ST
CHANNEL CROSS SECTIONS
FONTANERO STREET

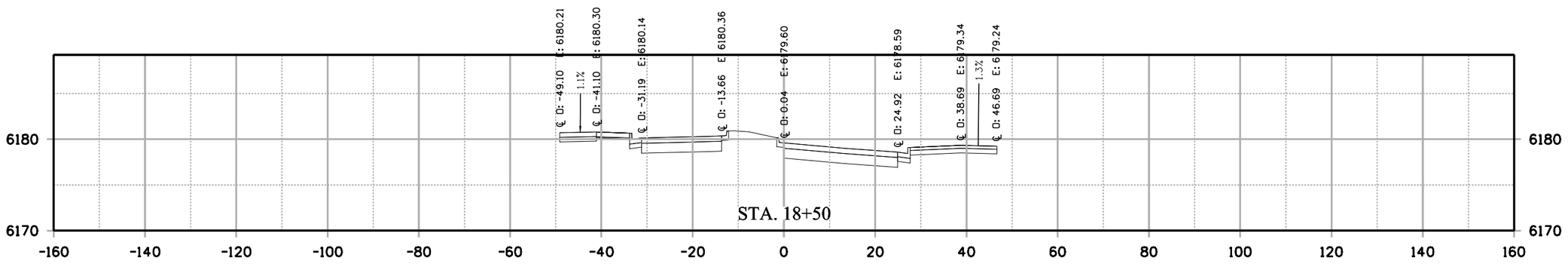
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Detailer:	BKM		
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Project #STU-M240-203
Bid #__-__
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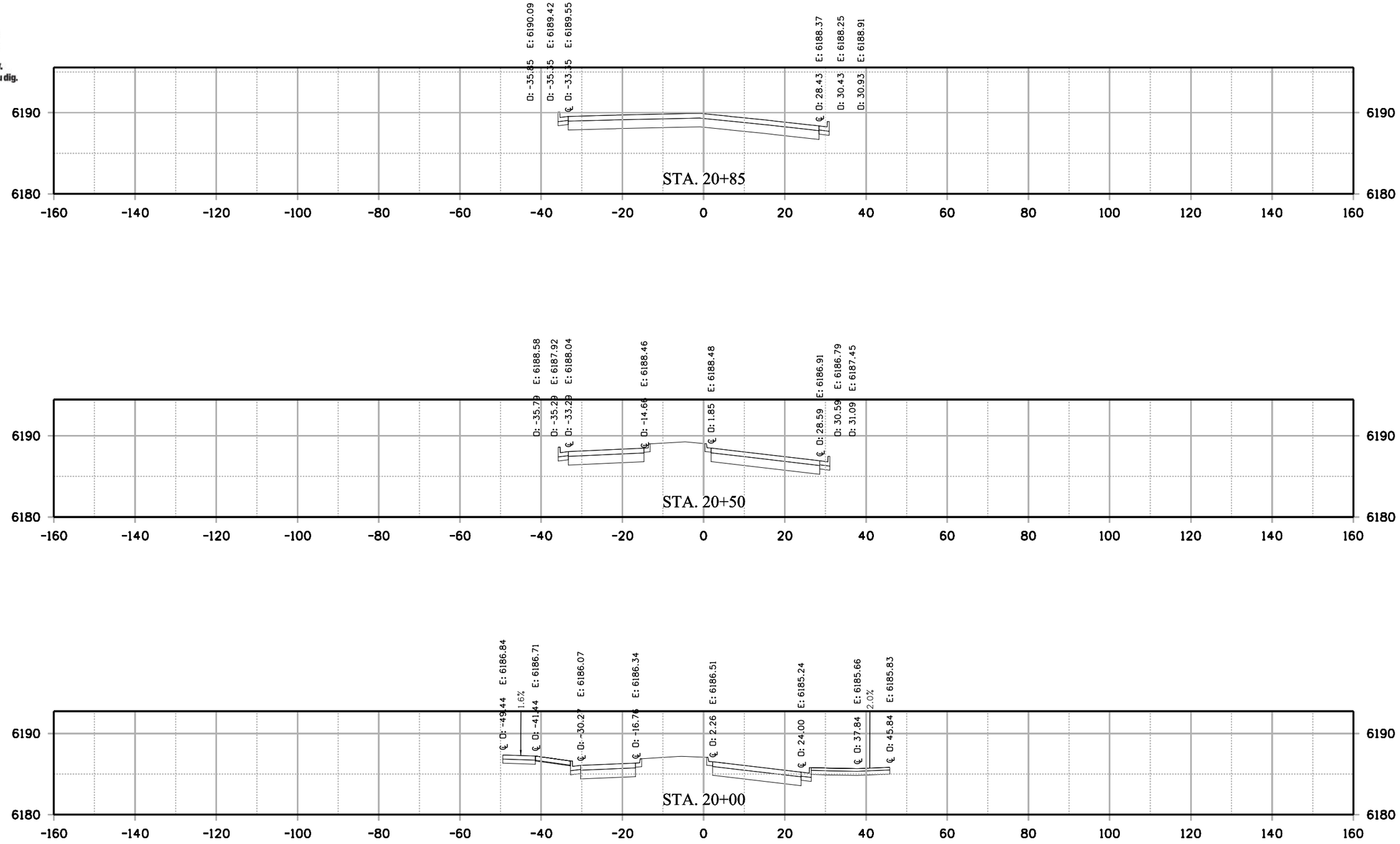


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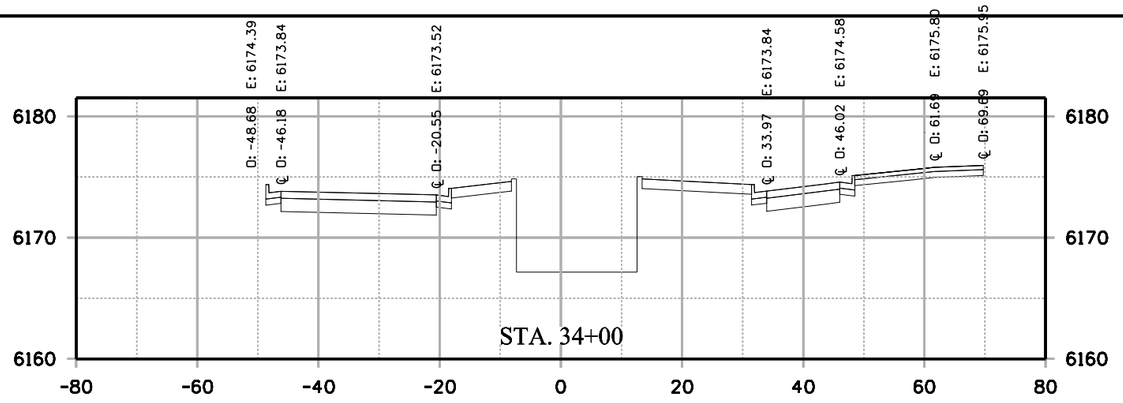
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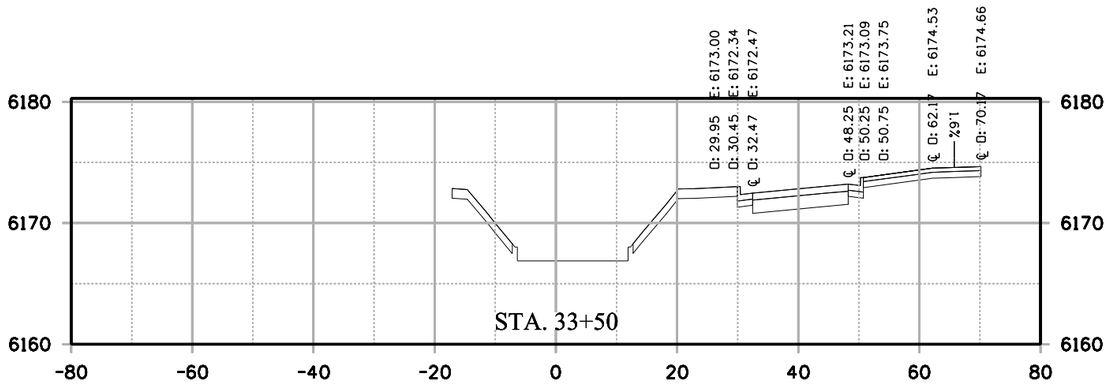
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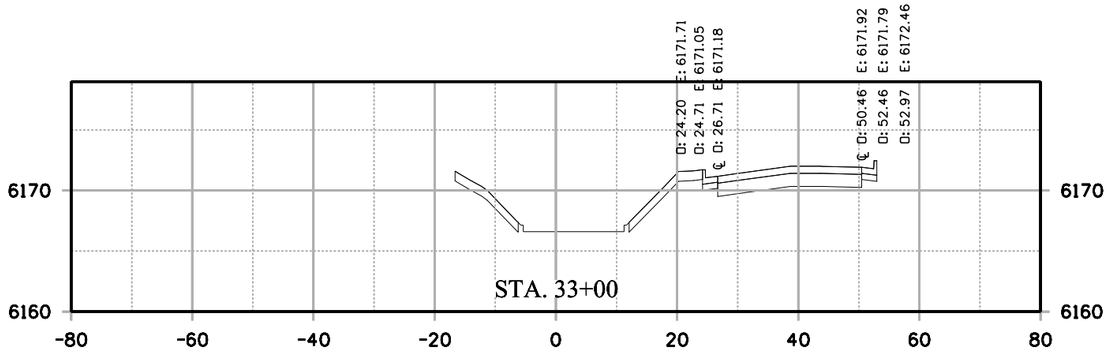
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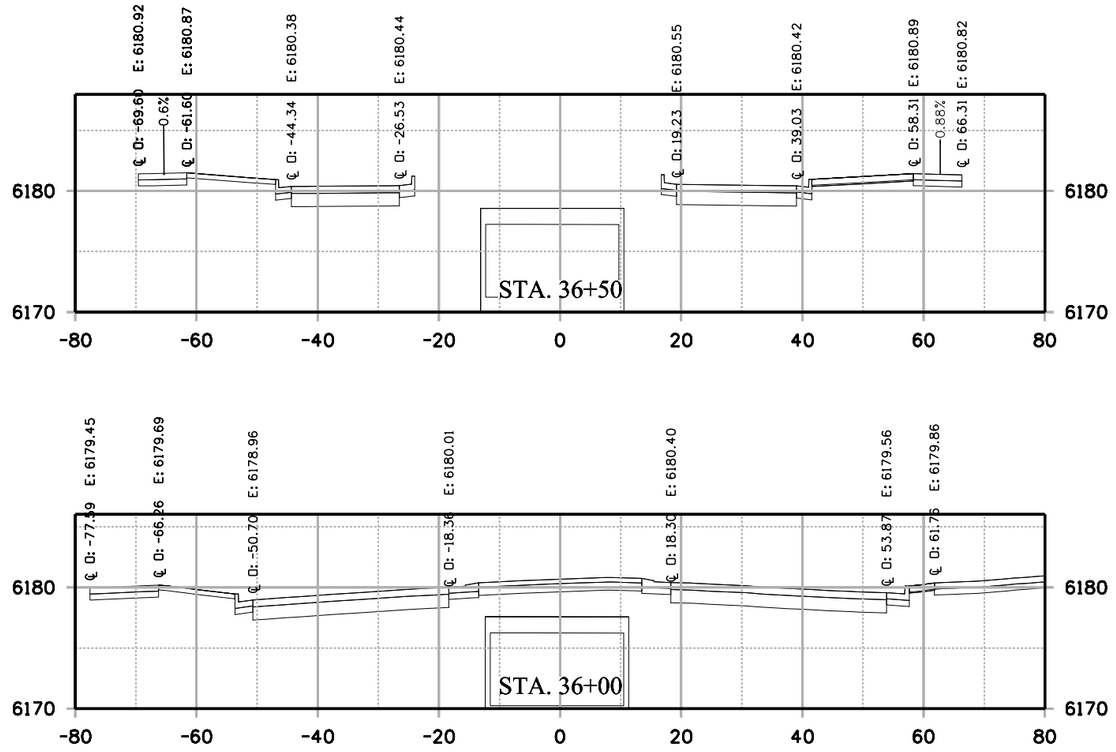


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Unit Information Unit Leader

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Date:	Comments	Init.

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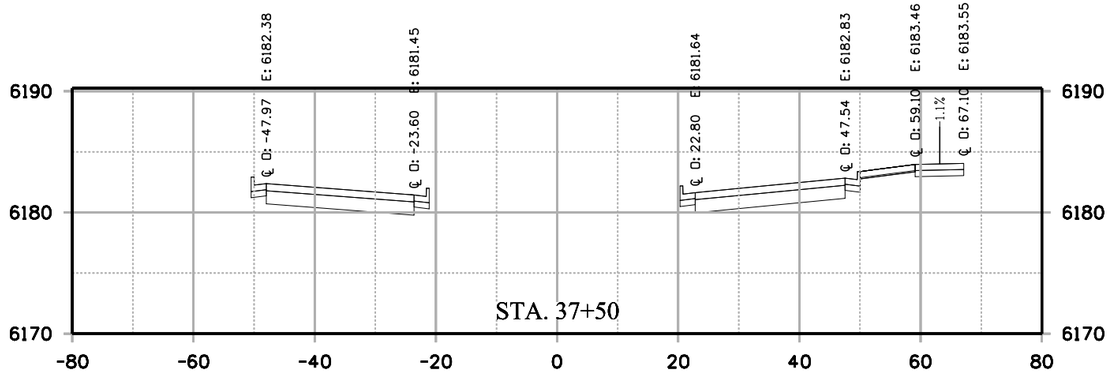
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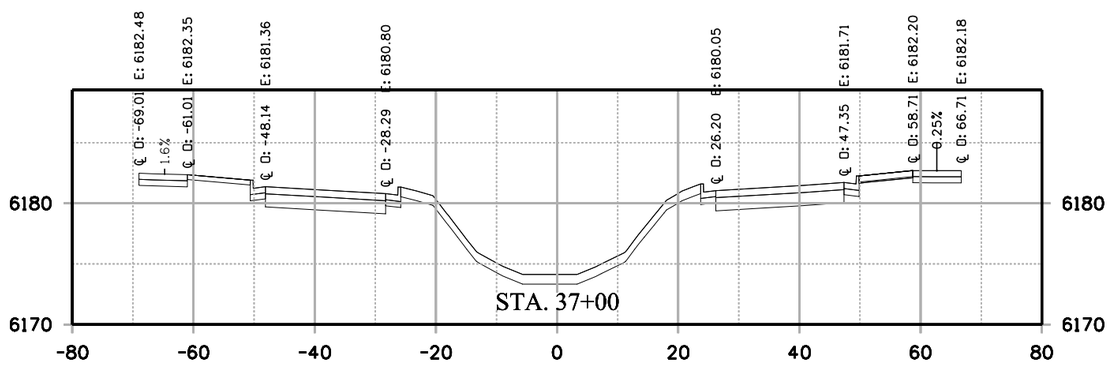
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CROSS SECTIONS
31st STREET

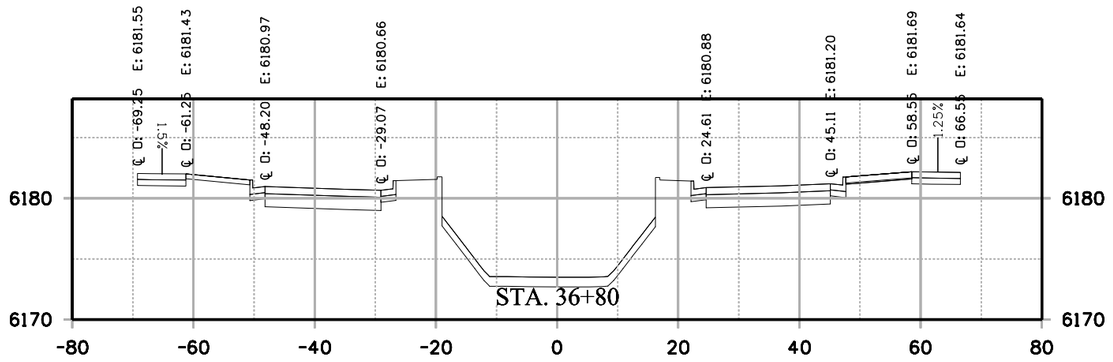
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Unit Information	Unit Leader		

Sheet Revisions		
Date:	Comments	Init.

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FAX: 719-520-0108

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Void:

31ST ST & FONTANERO ST
CROSS SECTIONS
31st STREET

Designer:	JDM	Structure Numbers	CSG-E.00-10.57A
Detailer:	BKM		
Sheet Subset:	XSEC	Subset Sheets: 6 of 6	

Project No./Code
Project #STU-M240-203
Bid #__-__
Sheet Number

EXHIBIT 5 – SAMPLE EVALUATION SCORESHEET

Proposer's Name: _____

Evaluator's Name: _____

RFP EVALUATION CRITERIA DESCRIPTION	SCORE
1. EXPERTISE AND QUALIFICATIONS AREA In this section, the Offeror must demonstrate that it meets and/or exceeds all requirements regarding expertise and qualifications of personnel proposed to complete the work defined in the Statement of Work/Scope of Services of this RFP. Qualifications of personnel are considered of the essence of the services provided. Therefore, the Offeror must provide information on Key Personnel who will be the personnel performing the consulting services.	
A. RELEVANT EXPERIENCE	
In the Expertise and Qualifications Area, the Offeror should provide at least three references or identify contracts demonstrating that it successfully provided services/products that are the same or similar to those required in the RFP. The proposal should adequately explain the successful outcomes of the projects. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions. 1. Does the proposal include at least three references or past performance citations? 2. Are the references or past performance citations relevant to the requirements of the Statement of Work of the RFP? 3. Does the Offeror explain how they were successful on the projects provided as past performance? 4. Does the Offeror apply the past performance to the City requirement in such a way as to demonstrate added value due to experience? **COMMENTS:**	
B. KEY PERSONNEL	
In the Expertise and Qualifications Area, resumes must be provided for all personnel who would be performing work on the resultant Contract. Resumes do not count toward the page limit. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions. Explain how the key personnel were related to the projects cited as relevant past performance. 1. Does the Offeror provide complete resumes, including education, experience, background information, accomplishments, and other pertinent information? 2. Does the Offeror provide resumes for all key personnel, as required by the RFP?	

3. Do the resumes demonstrate adequate professional, technical, and management levels to accomplish the work effectively and efficiently? 4. Do the key personnel possess all requisite certifications, licenses, experience, etc.? **COMMENTS**	
Sum of Ratings in Management Area (Add numbers in Sections 2.A. and 2.B.)	
2. PRICE/COST AREA (NOT EVALUATED)	
Total Price/Cost Area (Insert number from Section 3 evaluation above):	
3. PROPOSAL PRESENTATION	
Presentation is an important factor. Offerors should provide a highly professional product, which is complete, accurate, easily understood, and effectively presented. **COMMENTS:**	
EXCEPTIONS PROPOSED	
What (if any) exceptions (redlines to our terms and conditions) were proposed? Are they acceptable? **COMMENTS:**	**Pass/Fail**
INSURANCE EXCEPTIONS PROPOSED	
What (if any) exceptions (redlines to our insurance terms and conditions) were proposed? Are they acceptable? **COMMENTS:**	**Pass/Fail**
TOTAL SCORE – Add Evaluation Scores from Sections 1-3. The sum is the total score.	Total Score:

SECTION VI – APPENDICES

6.0 APPENDICES

Appendix A Hourly Rates (Not Evaluated)
Appendix B PPRTA Special Provisions

APPENDIX A – HOURLY RATES

PLEASE SUBMIT IN ENVELOPE #2

APPENDIX B – PPRTA SPECIAL PROVISIONS

FOLLOWS THIS PAGE

A. PPRTA-FUNDED PROJECTS SPECIAL PROVISIONS (REVISED AUGUST 17, 2016)

PPRTA Funding Special Provision: Joint Contracts – City of Colorado Springs ("the City") and the Pikes Peak Rural Transportation Authority ("the PPRTA").

This Contract is a joint contract between the Contractor/Consultant (hereinafter "Contractor"), the City, and the PPRTA. The parties therefore agree to the following:

A. Conflicts: This PPRTA Special Provision shall supersede any contrary provision of this Contract.

B. Parties: The Contractor acknowledges and understands that this Contract is funded in whole or in part by the PPRTA and administered by the City. Both the City and the PPRTA are parties to this Contract.

C. Payments: The Contractor acknowledges and understands that all payments under this contract shall be made to the Contractor by the PPRTA. PPRTA funding obligations shall be paid by PPRTA warrants. In the event there is joint City/PPRTA funding, then payment to the Contractor shall consist of warrants from the City and warrants from the PPRTA. The Contractor agrees to accept all payments made or proffered by the PPRTA under this Contract.

D. Bonds: All bonds under this Contract shall include the City and the PPRTA as Obligees.

E. Insurance: All insurance policies provided by the Contractor or by any sub-contractor for any work pursuant to contracts with the Contractor pursuant to this Contract shall name both the City and the PPRTA as additional insureds and shall waive all rights of subrogation, in accordance with the terms of this Contract, against both the City and the PPRTA.

F. Law: This Contract is subject to and shall be interpreted under the law of the State of Colorado, and the Charter, City Code, Ordinances, Rules and Regulations of the City of Colorado Springs, Colorado, a Home Rule City; the Resolutions and Rules and Regulations of the PPRTA. Court venue and jurisdiction shall exclusively be in the Colorado District Court for El Paso County, Colorado. The Parties agree that this Contract shall be deemed to have been made in, and the place of performance is deemed to be in, the City of Colorado Springs, El Paso County, State of Colorado. The Contractor shall ensure that the Contractor and the Contractor's employees, agents, officers and subcontractors are familiar with, and comply with, applicable Federal, State, and Local laws and regulations as now written or hereafter amended.

G. Appropriation and Availability of Funds: In accordance with the Colorado Constitution, Article X, Section 20, and the City Charter, performance of the City's obligations under this Contract is expressly subject to appropriation of funds by the City Council for this Contract and the availability of those appropriated funds for expenditure. Further, in the event that funds are not appropriated in whole or in part sufficient for performance of the City's obligations under this Contract, or appropriated funds may not be expended due to Constitutional or City Charter spending limitations, then the City and the PPRTA may terminate this Contract without compensation to the Contractor. Performance of the PPRTA's obligations under this Contract is expressly subject to appropriation of funds by the PPRTA and the availability of those funds for the payment of obligations incurred under this Contract. Further, in the event that PPRTA funds are not appropriated in whole or in part sufficient for performance of the PPRTA's

obligations under this Contract, or appropriated funds may not be expended due to legal limitations or non-availability, then the City and the PPRTA may terminate this Contract without compensation to the Contractor.

H. Indemnification: Subject to the provisions of Section 13-50.5-102(8), C.R.S., to the extent applicable to this Contract, the Contractor agrees that the Contractor shall indemnify, defend and hold harmless the PPRTA, its officers, employees and agents, from and against any and all loss, damage, injuries, claims, cause or causes of action, or any liability whatsoever resulting from, or arising out of, or in connection with the Contractor's obligations or actions under this Contract. To the extent the terms of Section 13-50.5-102(8), C.R.S., are applicable to this Contract, the Contractor and the PPRTA hereby agree for the purposes of this Section that: (i) "the degree or percentage of negligence or fault attributable" to the Contractor as used in Section 13-50.5-102(8)(a), C.R.S., shall be conclusively determined by a trial court at the state or federal level and (ii) the term "adjudication" used in Section 13-50.5-102(8)(c), C.R.S., shall mean a trial court order at the state or a federal level.

I. Governmental Immunity: Nothing in this Contract or in any actions taken by the PPRTA pursuant to this Contract shall be construed or interpreted as a waiver, express or implied, of any of the immunities, rights, benefits, protections or other provisions of the Colorado Governmental Immunity Act, Sections 24-10-101, *et. Seq.*, C.R.S.

. Warranties: All warranties provided by the Contractor under or pursuant to this Contract to the City shall also apply to the PPRTA.

K. Final Payment: Final payment under this Contract shall be made in accord with the terms of this Contract, except that final payment shall be made by the PPRTA, and the making and acceptance of final payment shall constitute a waiver of all claims by the Contractor against the City and the PPRTA.

L. Termination or Default of Contract: In all Contract provisions giving the City the right to terminate, for convenience or otherwise, or giving the City rights in the event of default by the Contractor, the term City shall also apply to the PPRTA.

M. Contract Changes: Any changes to the Contract, including but not limited to additions and/or deletions, which are not insignificant to the scope, design and requirements of the Contract shall be subject to prior approval of the PPRTA.