

RIDGEGLEN WAY 60” STORM SEWER REPLACEMENT PROJECT
SP2024-004

Construction Contract

1. **Parties.** This Contract, made and entered into this _____ day of **April, 2024**, between the Board of County Commissioners of the County of Douglas (hereinafter "County") and **53 Corporation, LLC**, a Colorado corporation (hereinafter "Contractor").

2. **Contract Documents.** The entire contract between the Parties shall consist of and include:

- A. Contract, which includes the Cover Page and Table of Contents;
- B. Approved Construction Plans (Exhibit A);
- C. Bid Schedule (Exhibit B);
- D. Douglas County Roadway Design and Construction Standards;
- E. Douglas County Grading, Erosion and Sediment Control Manual, (GESCS);
- F. Douglas County Storm Drainage Design & Technical Criteria Manual
- G. CDOT, Standard Specifications for Road & Bridge Construction;
- H. CDOT, Standard Plans, M & S Standards;
- I. County's Payment Policies;
- J. Insurance Requirements, Revision of Section 107 of the Standard Special Provisions; and
- K. Payment and Performance Bonds

3. Except as otherwise provided in this Contract, the project shall be constructed in accordance with the current as amended versions of the Douglas County Roadway Design & Construction Standards, Douglas County Grading, Erosion and Sediment Control Manual, (GESCS), the Douglas County Storm Drainage Design & Technical Criteria Manual, the CDOT Standard Specifications for Road and Bridge Construction, dated 2021, and the CDOT M&S Standards. If there is a conflict between any of these standards, the Douglas County standards and manuals shall control.

4. **Scope of Work.** All services described in Exhibit A - (Construction Plans), attached hereto and incorporated herein, shall be performed by Contractor.

The County may, from time to time, request changes to the scope of services to be performed hereunder. Such changes, including any increase or decrease in the amount of the Contractor's compensation, which are mutually agreed upon between the County and Contractor, shall be in writing and shall become part of this Contract upon execution.

The Contractor agrees to diligently and professionally perform all the services described herein in a manner satisfactory to the Authorized Representative. It is also understood and agreed that the Contractor shall not, in performing services hereunder, undertake any action or activity prohibited by the terms of any lease, permit, license or other agreement in effect during the term hereof between the Contractor and the County for the use and occupancy by the Contractor of any County facilities or space.

5. **Term:** It is mutually agreed by the parties that the term of this Contract shall commence as of 12:01 a.m. on April 1, 2024 and terminate at 12:00 a.m. on April 1, 2025. This Contract and/or any extension of its original term shall be contingent upon annual funding being appropriated, budgeted and otherwise made available for such purposes and subject to the County's satisfaction with all products and services received during the preceding term.

6. **Compensation:** Subject to the maximum contract liability and all other provisions of this Contract, the County agrees to pay to the Contractor, and the Contractor agrees to accept payment as described in Exhibit B, attached hereto and incorporated herein, during the term hereof, in accordance with the terms set forth herein.

7. **Maximum Contract Expenditure:** Any other provision of this Contract notwithstanding and pursuant to Section 29-1-110, C.R.S., the amount of funds appropriated for this Contract is **FOUR HUNDRED FORTY THOUSAND EIGHT HUNDRED FIFTY-THREE DOLLARS (\$440,853.00)** for fiscal year **2024**. In no event shall the County be liable for payment under this Contract for any amount in excess thereof. The County is not under obligation to make any future apportionment or allocation to this Contract nor is anything set forth herein a limitation of liability⁵³ for Contractor. Any potential expenditure for this Contract outside the current fiscal year is subject to future annual appropriation of funds for any such proposed expenditure.

8. **Change Orders.** No change order, or other form of order or directive of the County requiring additional compensable work to be performed, which work is in excess of that specified in Paragraph 4 above, shall be issued unless the Contractor is given written assurance by the County that lawful appropriations to cover the costs of the additional work will be or have been made.

9. **Taxes.** The Contractor shall apply to the State Revenue Department for an exemption certificate in order to exempt it from having to pay sales and use tax.

10. **Indemnification and Insurance.** Contractor agrees to:

A. Indemnification. The Contractor shall defend, release, indemnify and save and hold harmless the County, its officers, agents and employees from and against (1) any and all damages, including but not limited to loss of use, to property, or injuries to or death of any person or persons, including property and officers, agents and employees of the County, and (2) any and all claims, demands, suits, actions, liabilities, costs, expenses (including but not limited to reasonable attorney fees, expert witness fees and all associated defense fees), causes of action, or other legal, equitable or administrative proceedings of any kind or nature whatsoever, of or by anyone whomsoever, regardless of the legal theory(ies) upon which premised, including but not limited to contract, tort, express and/or implied warranty, strict liability, and workers compensation, in any way resulting from, connected with, or arising out of, directly or indirectly, actions or omissions of the Contractor or those performing under it in connection with its operations or performance herewith or its use or occupancy of real or personal property hereunder, including actions or omissions of Subcontractors and Suppliers, and acts or omissions of officers, employees, agents, representatives, invitees or licensees of the Contractor or its Subcontractors or Suppliers; provided however, that the Contractor need not indemnify the County or its officers, agents and employees from damages proximately caused by and apportioned to the negligence of the County's officers, agents and employees. This indemnification is for an amount represented by the degree or percentage of negligence or fault attributable to the indemnity obligor or the indemnity obligor's agents, representatives, subcontractors, or suppliers. Further, this indemnification is intended to comply with and be subject to § 13-50.5-102(8), C.R.S., as amended from time to time.

This indemnity clause shall also cover the County's defense costs, in the event that the County, in its sole discretion elects to provide its own defense. The County retains the right to disapprove counsel, if any, selected by Contractor to fulfill the forgoing defense indemnity obligation, which right of disapproval shall not be unreasonably exercised.

- B. Procure and maintain commercial general liability insurance including completed operations, contractual liability, products liability and automobile liability, affording coverage for all claims for bodily injury including death and all claims for destruction of or damage to property, arising out of or in connection with any operations under this Contract, whether such operations be by the Contractor, by subcontractors under it or anyone directly or indirectly employed by the Contractor or by subcontractor under it. Required coverage is outlined in **Revision of Section 107 of the Standard Special Provisions and made a part of this Contract.**
- C. Obtain and maintain during the term of this Contract worker's compensation insurance as required by law. This insurance shall cover all of its employees employed under the terms of this Contract. If any of the work on the Project is sublet, the Contractor shall require each of its subcontractors to provide similar coverage for all of the subcontractor's employees to be engaged in such work.
- D. Contractor is an independent contractor under this Contract. Notwithstanding any provision of this Contract, all personnel assigned by the Contractor to perform work under this Contract shall be and remain at all times, employees of the Contractor for all purposes, except as otherwise provided for subcontractors herein.
- E. Contractor shall comply with any reasonable request by the Department of Labor and Employment made in the course of an investigation that the Department is undertaking pursuant to the authority established in § 8-17.5-102(5), C.R.S.
- F. If Contractor violates this provision of this Contract, the County may terminate the Contract for a breach of contract. If the Contract is so terminated, Contractor shall be liable for actual and consequential damages to the County as required by law.
- G. The County will notify the Office of the Secretary of State if Contractor violates this provision of this Contract and the County terminates the Contract for such breach.

11. **No Waiver of Governmental Immunity Act.** The parties hereto understand and agree that the County, its commissioners, officials, officers, directors, agents and employees, are relying on, and do not waive or intend to waive by any provisions of this Contract, the monetary limitations or any other rights, immunities and protections provided by the Colorado Governmental Immunity Act, §§ 24-10-101 to 120, C.R.S., or otherwise available to the County.

12. **Assignment.** The Contractor covenants and agrees that it will not assign or transfer its rights hereunder, or subcontract any work hereunder, either in whole or in part without the prior written approval of the Project Engineer. Any attempt by the Contractor to assign or transfer its rights hereunder shall, at the option of the County, void the assignment or automatically terminate this Contract and all rights of the Contractor hereunder.

13. **Subletting of Contract.** The Contractor shall not sublet, sell, transfer, assign or otherwise dispose of the Contract, or its right, title or interest therein, without the written consent of the County. The Contractor may utilize the services of specialty contractors on those parts of the Project which, under normal contracting practices, are performed by specialty subcontractors. The Contractor shall be fully responsible to the County for the acts and omissions of the subcontractors and of persons directly employed by them, as it is for the acts and omissions of persons directly employed by it. The Contractor shall provide appropriate provisions to be inserted on all subcontracts relative to the Project to bind the subcontractors to the Contractor by the terms of the Contract Documents to give the Contractor the same power in regard to termination of any subcontractor that the County may exercise over the Contractor under any provision of the Contract Documents.

14. **Non-Discrimination and Federal Assurance in Connection with Performance of Work.** The Contractor agrees not to refuse to hire, discharge, promote or demote, or discriminate in matters of compensation against any person otherwise qualified, solely because of race, creed, sex, color, national origin, or ancestry and further agrees to insert the foregoing provision in all subcontracts hereunder. Further, Contractor agrees to comply with the Standard Title VI Non-Discrimination Appendices A and E attached hereto and incorporated herein, and the foregoing shall be a provision in all subcontracts hereunder.

15. **Cancellation of Contract.** Failure of the Contractor to comply with any of the requirements of this Contract may be considered by the County as evidence of the inability on the part of the Contractor to maintain the quality and service standards necessary under this Contract and shall be sufficient cause for termination of the Contract and the County initiating legal action against the Performance Bond of the Contractor.

16. **Patented Devices, Materials and Processes.** If a Contractor is required or desires to use any design, device, invention, product, material or process covered by letters of patent or copyright, it shall provide for such use by suitable legal Contract with the patentee or copyright owner and the County and shall pay all license fees and royalties and assume all costs incident to such use and construction of the Project or incorporation in the Project. The Contractor agrees to defend, indemnify and save harmless the County from any and all claims for infringement by reason of the use of such patented design, device, invention, project, material, or process or any trademark or copyright in connection with the construction of the Project pursuant to the Contract Documents and shall defend and indemnify the County for any costs, expense, and damages, including attorney's fees, which the County may be obliged to pay for any such infringement at any time such claim is made or prosecuted, including, but not limited to, after the completion of the Project. If the County determines, in the reasonable exercise of its discretion, that a joint defense for the County and the Contractor creates a conflict of interest, the County shall be permitted to select its own counsel, and the Contractor shall pay all reasonable attorneys' fees, expenses (including expert fees and expenses), and costs of the County's defense. The County may, if it so desires, withhold any payment due the Contractor so long as it shall be reasonably necessary to indemnify the County on account of such injuries or damage.

17. **Compliance with Safety and Health.** Contractor agrees, in the performance of this Contract, to comply with all safety orders, rules and regulations imposed pursuant to the Colorado Occupational Safety and Health Program, commonly referred to as COSHA and/or all other safety orders and regulations properly imposed by any other regulatory governmental agency of the State of Colorado or of the United States.

18. **Permits and Licenses.** Unless otherwise provided, the Contractor shall procure all permits and licenses, and, give all notices necessary and incidental to the due and lawful construction of the Project. County may assist Contractor, when necessary, in obtaining such permits and licenses. All County permits will be at no cost to the Contractors.

19. **Venue.** Any and all legal actions pertaining or related to this Contract shall be filed and tried in the District Court in and for the County of Douglas, State of Colorado.

20. **Colorado Labor Preference.** The provisions of §§ 8-17-101 through 8-17-107, C.R.S., are applicable to this Contract. Colorado labor must be employed to perform the work to the extent of not less than eighty percent (80%) of each type of class of labor in the several classifications of skilled and common labor employed on the Project. The 80% requirement for Colorado labor shall be waived by the County if there is reasonable evidence to demonstrate insufficient Colorado labor to perform the work of the Project and if compliance with this requirement would create an undue burden that would substantially prevent the Project from proceeding to completion. Colorado labor means any person who is a resident of the State of Colorado at the time of the public works project, without discrimination as to race, color, creed, sex, sexual orientation, marital status, national origin, ancestry, age, or religion except when sex is a bona fide occupational qualification. A resident of the State

of Colorado is a person who can provide Colorado driver's license, a valid Colorado state issued photo identification, or documentation that he or she has resided in Colorado for the last 30 days. This section is not applicable to any project that receives Federal funds. Enforcement for violation of this section is pursuant to rules and regulations to be promulgated by the Colorado Department of Labor pursuant to §§ 8-17-104, 8-17-105 and 8-17-106, C.R.S.

21. **Conflict of Interest.** The Contractor agrees that no official, officer or employee of the County shall have any personal or beneficial interest whatsoever in the services or property described herein, and the Contractor further agrees not to hire, pay, or contract for services of any official, officer or employee of the County. A conflict of interest shall include transactions, activities or conduct that would affect the judgment, actions or work of the Contractor by placing the Contractor's own interests, or the interest of any party with whom the Contractor has a contractual arrangement, in conflict with those of County.

22. **Compliance with All Laws and Regulations.** All of the work performed under this Contract by the Contractor shall comply with all applicable laws, rules, regulations and codes of the United States, State of Colorado and County of Douglas.

23. **No Third-Party Beneficiary.** The enforcement of the terms and conditions of this Contract and all rights of action relating to such enforcement, shall be strictly reserved by the County and the Contractor, and nothing contained in this Contract shall give or allow any such claim or right of action by any other or third person under such Contract.

24. **Force Majeure:** No party shall be liable for failure to perform hereunder if such failure is the result of force majeure. Any time limit shall be extended for the period of any delay resulting from any force majeure, or this Contract may be terminated if such delay makes performance of the Contract impossible or impracticable. Force majeure shall mean causes beyond the reasonable control of a party against which it would have been unreasonable for the affected party to take precautions and which the affected party cannot avoid even by using its best efforts, such as, but not limited to, natural disasters of overwhelming proportions, exceptional adverse weather conditions, acts of God, acts of war, strikes, work stoppages, fire or other catastrophic casualty or action of non-party government authorities.

25. **Bond.** At the time of the execution of this Contract, the Contractor shall furnish a Contract Payment Bond and a Contract Performance Bond. Each bond shall be in the penal sum equal to the nearest integral one hundred dollars in excess of the Contract value or amount, plus all force account items, if any, specified in the project special conditions to be included in the payment and performance bonds. The bonds and the security shall be in a form and issued by an entity acceptable to the County.

26. **County Execution of Contract:** This Contract is expressly subject to and shall not be or become effective or binding on the County, until execution by all signatories of the County.

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STANDARD TITLE VI NON-DISCRIMINATION: APPENDIX A

During the performance of this contract, the Contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "Contractor") agrees as follows:

1. **Compliance with Regulations:** The Contractor shall comply with the Regulation relative to nondiscrimination in federally-assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
1. **Non-discrimination:** The Contractor, with regard to the work performed by it during the Contract, will not discriminate on the grounds of race, color, or national origin, in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the Contract covers any activity, project, or a program set forth in Appendix B of 49 CFR Part 21.
2. **Solicitations for Subcontractors, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, national origin, or sex.
3. **Information and Reports:** The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the County, the Colorado Department of Transportation or the Federal Highway Administration be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information the Contractor shall so certify to the County, the Colorado Department of Transportation or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
4. **Sanctions for Noncompliance:** In the event of the Contractor's noncompliance with the nondiscrimination provisions of this Contract, the County shall impose such contract sanctions as it, the Colorado Department of Transportation or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a. withholding of payments to the Contractor under the Contract until the Contractor complies, and/or
 - b. cancellation, termination or suspension of the Contract, in whole or in part.
5. **Incorporation of Provisions:** The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

The Contractor shall take such action with respect to any subcontract. or procurement as the County, the Colorado Department of Transportation or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the Contractor may request the County to enter into such litigation to protect the interests of the County, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

STANDARD TITLE VI NON-DISCRIMINATION: APPENDIX E

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC§ 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

DEPARTMENT OF PUBLIC WORKS ENGINEERING:

JANET HERMAN, P. E. **Date**
Director of Public Works

APPROVED AS TO FISCAL CONTENT:

APPROVED AS TO LEGAL FORM:

ANDREW COPLAND **Date**
Director of Finance

Chris Pratt **Date**
Senior Assistant County Attorney

PROJECT MANAGER REQUIRED TO COMPLETE:

Name of Contact at Contractor's Place of Business: (example: Joe Smith, Concrete Company, Inc.):
Chris Hoyt, 53 Corporation, LLC_____

Email Address of Contact: chris@53corporation.com_____

Phone # of Contact: 720-733-0192_____

Address of Contact: _5655 Peterson Road, Sedalia, CO 80135_____

COUNTY'S PAYMENT POLICIES

The following policies have been formulated to assure timely and accurate payments by Douglas County Government to its Contractors. Invoices submitted which are not in complete accordance with these policies will be returned (mailed) without payment to the Contractor for completion.

1. Each invoice for progress payment and/or final payment must list the description and location of the work being performed. Contractor's invoice for materials being billed must also be attached.
2. All invoices are to be submitted to Douglas County Department of Public Works - Engineering Division, Philip S. Miller Building, 100 Third Street, Suite 220, Castle Rock, CO 80104; Attention: Deborah Kula, PE, Special Projects Engineer
3. Invoices must be submitted by the 25th of the month to be paid by the 25th of the following month. Under no circumstances will a Contractor be paid more than once a month. Errors will be corrected on the next pay cycle.
4. Checks will be mailed on or about the 25th of each month. When payment dates occur on Saturday or Sunday, payment will be made on the first working day following such date.

ACKNOWLEDGMENT

I have read the above procedures and understand that any deviation therefrom will cause delays in the payment of those invoices involved.

Contractor: _____

Signed by: _____

Print Name: _____

Title: _____

Date: _____

**REVISION OF SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC**

Section 107 of the Standard Specifications is hereby revised as follows:

107.12 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE

In Subsection 107.12, delete the last paragraph and replace with the following:

Measures to minimize damage to existing trees have been incorporated into the design of this Project. Due to the value of existing trees located within the Project limits, removal of trees has been minimized through the extensive use of ditch adjustments, grade and alignment adjustments and other techniques.

The Contractor shall take all precautions necessary to protect all trees not designated for transplanting and/or removal on the Project. Failure of the Contractor to protect existing trees will result in assessment of liquidated damages as follows:

First occurrence of failure to protect trees - \$5,000

Second occurrence of failure to protect trees - \$10,000

Any Subsequent occurrence of failure to protect trees - Potential Removal of Contractor from Project plus \$10,000 per occurrence

If the Contractor knowingly harms any existing tree(s), he shall immediately notify the Engineer of the tree(s) location and damage. Damage to trees that have been identified in the plans to be protected (or not identified for removal) outside the Project limits (County ROW and / or easements), or on private property, shall be subject to the above liquidated damages, and, potentially, any additional fines pursued by the owner(s) of the private property.

107.15 RESPONSIBILITY FOR DAMAGE CLAIMS, INSURANCE TYPES AND COVERAGE LIMITS

Delete the first paragraph of Subsection 107.15, prior to subparagraph (a), in its entirety and replace with the following:

The Contractor shall exercise proper precaution at all times for the protection of persons and property and shall be responsible for all damage to persons or property, either on or off the site, which occur as a result of his prosecution of the work.

The safety provisions of applicable laws and building and construction codes shall be observed, and the Contractor shall take or cause to be taken such additional safety and health measures as deemed necessary.

The Contractor shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work arising out of, and in the course of, employment on the work under this Contract. The Contractor shall promptly furnish the Engineer with reports concerning these matters.

REVISION OF SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC
- Continued -

The Contractor expressly binds himself to defend, indemnify and save harmless the County, its commissioners, officials, officers, directors and employees, against all third-party suits, actions, claims, costs, fees, and expenses, including but not limited to expert fees and attorneys' fees, of any kind and nature brought, or which may be brought against the County, for or on account of any injuries or damage received or sustained by any person, firm, partnership or corporation, or persons, firms, partnerships or corporations, or by any property, in connection with or on account of the operations of the Contractor; or failure to comply with the provisions of the Contract; or on account of or in consequence of neglect of the Contractor in safeguarding the work; or because of the performance of the work under this Contract or by or in consequence of any negligence in connection with the same; or on account of the use of any improper or defective materials or workmanship; or on account of any act or omission, neglect, or misconduct of the Contractor, or a subcontractor, agents, servants or employees; or because of any claims or amounts recovered from any infringements of patent, trademark, or copyright, unless the design, device, material or process involved is specifically required by the Contract; or from any claims or amounts arising or recovered under the Worker's Compensation Act, or other law, ordinance, order or decree; or for any cause arising out of the performance of any subcontractor, agents, servants or employees relating to this Contract. If the County determines, in the reasonable exercise of its discretion, that a joint defense for the County and the Contractor creates a conflict of interest, the County shall be permitted to select its own counsel, and the Contractor shall pay all reasonable attorneys' fees, expenses (including expert fees and expenses), and costs of the County's defense. The County may, if it so desires, withhold any payment due the Contractor so long as it shall be reasonably necessary to indemnify the County on account of such injuries or damage.

Subsection 107.15 (f) is hereby revised to include the following:

- (f) The certificates of insurance shall be provided to Douglas County by the Contractor's insurance agent or carrier as evidence that policies providing the required coverage, conditions, and minimum limits are in full force and effect. Insurance limits must be on each Certificate of Insurance. Each Certificate of Insurance shall be reviewed and approved by Douglas County prior to commencement of the Contract. No other form of certificate shall be used. The certificates shall identify this Contract.

Subsection 107.15 (g) is hereby revised to include the following:

- (g) Any completed certificates of insurance, including renewals and amendments or modifications, shall be sent to:

Douglas County Project Engineer	Megan Datwyler
Department of Public Works Engineering	Douglas County Risk Management
100 Third Street, Suite 220	100 Third Street, 3 rd Floor
Castle Rock, Colorado 80104	Castle Rock, Colorado 80104

Any notices of cancellation, termination, or material change shall be sent to the above addresses within **thirty (30) calendar days** prior to the date upon which the noticed action

**REVISION OF SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC
- Continued -**

(i.e., cancellation, termination or material change) is to take effect.

Add the following new Subsection 107.15(i) :

- (i) Failure on the part of the Contractor to procure or maintain policies providing the required coverage, conditions and minimum limits shall constitute a material breach of contract upon which the County may immediately terminate this Contract, or, in the County's sole discretion, it may suspend the Contractor's performance and/or procure or renew any such policy or any extended reporting period thereto and may pay any and all premiums in connection therewith, and all monies so paid by the County shall be repaid by the Contractor to the County upon demand, or the County may offset the cost of the premiums against any monies due to the Contractor from the County.

107.16 OPENING SECTIONS OF PROJECT TO TRAFFIC

Subsection 107.16 is hereby revised to include the following:

The County has the right, subject to reasonable advance notice to the Contractor, to take possession of and use any completed or partially completed portions of the work. The County has this right even though the entire work or any portions thereof may, or may not, have been completed. Such possession and use shall not be deemed an acceptance of any work until all work has been completed in accordance with the Contract. Possession taken by the County pursuant to this paragraph shall not change the period of warranty requirements pursuant to the Revision of Sections 105 and 107.

107.17 CONTRACTOR'S RESPONSIBILITY FOR WORK

Subsection 107.17 is hereby revised to include the following:

Should an excavation become flooded, by any cause, the Contractor shall remove excess water, excavate the unsuitable material to a depth satisfactory to the Engineer and replace it with other suitable material as approved by the Engineer, at the Contractor's expense.

Until final written acceptance of the Project by the County, the Contractor shall have the charge and care thereof and shall take every precaution against injury or damage to any part thereof by the action of the elements, groundwater, surface runoff, floods or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the work occasioned by any of the above causes before final acceptance and shall bear the expense thereof.

REVISION OF SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC
- Continued -

The Contractor shall be responsible for the Project and shall take such precautions as may be necessary to construct the Project in a dry condition, provide for drainage, groundwater, underground water, surface runoff; and shall erect any necessary temporary structures or other facilities (including pumping and all other dewatering costs) at the Contractor's expense that are needed to complete the requirements for this Project.

No separate measurement and payment will be made of the work, equipment and materials, including, but not limited to, any additional shoring, rock stabilization, diversions, cofferdams, sheeting, pumping and well points required to control the surface and subsurface water in the work area throughout the duration of the Project (until the Project is completed and accepted by the Engineer). This work shall be a subsidiary obligation of the Contractor for this Project.

In an emergency affecting the safety of life or property, on or adjoining the Project site, the Contractor shall act, either at his own discretion, or as instructed by the Engineer, to prevent such threatened loss or injury. Any compensation claimed by the Contractor on account of such emergency work will be determined by the Engineer as provided in Subsections 104.03 and 109.04.

107.19 FURNISHING RIGHT OF WAY

Subsection 107.19 is hereby revised to include the following:

The Contractor shall construct this Project within the right-of-way, permanent slope easements, permanent drainage easements, permanent utility easements and temporary construction easements, or as otherwise provided in writing and as shown on the plans. The Contractor, at his expense, shall obtain any additional temporary construction easements that the Contractor wants. The Contractor shall provide the County with a written copy of all third-party agreements pertaining to this contract. Upon written approval by the Engineer, the County may agree to incorporate the adjacent additional temporary construction easements into the Project limits. The Contractor will be responsible for obtaining all applicable Federal, State and Local permits associated with the work outside the Project limits. No time extensions will be granted by the County for the Contractor to obtain these additional easements. When required, temporary fence will be constructed within the limits of the temporary construction easements.

107.25 WATER QUALITY CONTROL

Subsection 107.25 is hereby revised as follows:

Subsection 107.25(a) Definitions 1 through 4 are hereby deleted.

Subsection 107.25(b) Items 2 and 6 are hereby deleted.

Subsection 107.25(c) is hereby deleted.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____, a corporation organized under the laws of the State of _____, hereinafter referred to as the "Contractor", and _____, a corporation organized under the laws of the State of _____, and authorized to transact business in the State of Colorado, hereinafter referred to as the "Surety", are held and firmly bound unto the COUNTY OF DOUGLAS, a political subdivision of the State of Colorado, hereinafter referred to as the "COUNTY", in the penal sum of Four Hundred Forty Thousand Eight Hundred Fifty-Three Dollars (\$440,853.00), lawful money of the United States of America, for the payment of which sum the Contractor and Surety bind themselves and their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above Contractor has on the ____ day of _____, _____, entered into a written contract with the County for furnishing all labor, materials, tools, superintendence, and other facilities and accessories for the construction of **RIDGEGLLEN WAY 60" STORM SEWER REMOVE & REPLACEMENT PROJECT, DOUGLAS COUNTY PROJECT NUMBER SP2024-004**, in accordance with all Contract Documents therefore which are incorporated herein by reference and made a part hereof, and are herein referred to as the Contract.

NOW, THEREFORE, the condition of this payment bond obligation is such that if the Contractor shall at all times promptly make payments of all amounts lawfully due to all persons supplying or furnishing it or its subcontractors with labor and materials, rental machinery, tools, or equipment, used or performed in the prosecution of work provided for in the above Contract and shall indemnify and save harmless the County to the extent of any and all payments in connection with the carrying out of such Contract which the County may be required to make under the law, then this obligation shall be null and void, otherwise, it shall remain in full force and effect;

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that any and all changes in the Contract, or compliance or noncompliance with the formalities in the Contract for making such changes shall not affect the Surety's obligations under this bond and the Surety hereby waives notice of any such changes.

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this ____ day of _____, _____.

(Contractor)

BY: _____
(President)

(Surety Company)

BY: _____
(Attorney-in-Fact)

(Accompany this bond with Attorney-in-Fact's authority from the Surety to execute bond, certified to include the date of the bond.)

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned _____, a corporation organized under the laws of the State of Colorado, hereinafter referred to as the "Contractor", and _____, a corporation organized under the laws of the State of _____, and authorized to transact business in the State of Colorado, hereinafter referred to as the "Surety", are held and firmly bound unto the COUNTY OF DOUGLAS, a political subdivision of the State of Colorado, hereinafter referred to as the "COUNTY", in the penal sum of Four Hundred Forty Thousand Eight Hundred Fifty-Three Dollars (\$440,853.00), lawful money of the United States of America, for the payment of which sum the Contractor and Surety bind themselves and their heirs, executors, administrators, successors and assigns, jointly and severally by these presents.

WHEREAS, the above Contractor has on the ____ day of _____, _____, entered into a written contract with the County for furnishing all labor, materials, equipment, tools, superintendence, and other facilities and accessories for the construction of **RIDGEGLEN WAY 60" STORM SEWER REMOVE & REPLACEMENT PROJECT, DOUGLAS COUNTY PROJECT NUMBER SP2024-004**, in accordance with all Contract Documents therefore which are incorporated herein by reference and made a part hereof, and are herein referred to as the Contract.

NOW, THEREFORE, the condition of this performance bond is such that if the Contractor:

1. Promptly and faithfully observes, abides by and performs each and every covenant, condition and part of said Contract, including, but not limited to, its warranty provisions, in the time and manner prescribed in the Contract, and
2. Pays the County all losses, damages (liquidated or actual, including, but not limited to, damages caused by delays in the performance of the Contract), expenses, costs and attorneys' fees that the County sustains resulting from any breach or default by the Contractor under the Contract, then this bond is void; otherwise, it shall remain in full force and effect.

IN ADDITION, if said Contractor fails to duly pay for any labor, materials, team hire, sustenance, provisions, provender, or any other supplies used or consumed by said Contractor or its subcontractors in its performance of the work contracted to be done or fails to pay any person who supplies rental machinery, tools, or equipment, all amounts due as the result of the use of such machinery, tools, or equipment in the prosecution of the work, the Surety shall pay the same in an amount not exceeding the amount of this obligation, together with interest as provided by law.

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that any and all changes in the Contract or compliance or noncompliance with the formalities in the Contract for making such changes shall not affect the Surety's obligations under this bond and the Surety hereby waives notice of any such changes.

IN WITNESS WHEREOF, said Contractor and said Surety have executed these presents as of this ____ day of _____, _____.

**PERFORMANCE BOND
(CONTINUED)**

(Contractor)

BY: _____
(President)

(Surety Company)

BY: _____
(Attorney-in-Fact)

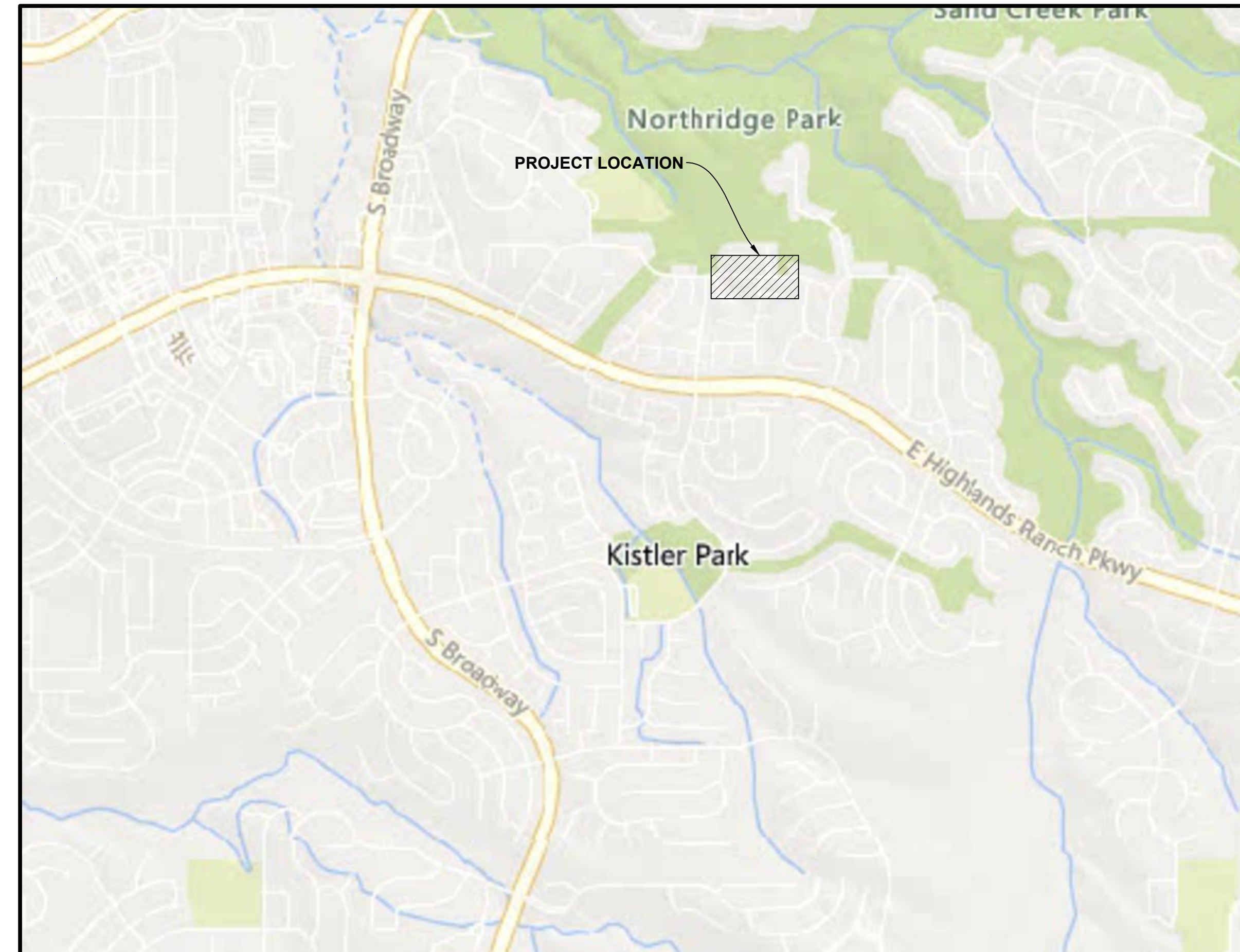
(Accompany this bond with Attorney-in-Fact's authority from the Surety to execute bond, certified to include the date of the bond.)

DOUGLAS COUNTY

RIDGEGLEN WAY 60" STORM & MANHOLES

FINAL DESIGN
 ICON ENGINEERING PROJECT NO.: 22-026-1
 FEBRUARY 2024

T6S, R68W, SECTION 11



LOCATION MAP 
 NOT TO SCALE

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD NOTES
3	PLAN & PROFILE
4 - 8	DETAILS

APPROVALS
 DOUGLAS COUNTY



DOUGLAS COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING
 100 THIRD ST.
 CASTLE ROCK, COLORADO 80104
 303-660-7490

Matt Williams

MATT WILLIAMS, PE, ASSISTANT DIRECTOR OF PUBLIC WORKS ENGINEERING

02/29/2024

DATE

Sean Owens

SEAN OWENS, PE, SPECIAL PROJECT MANAGER

02/29/2024

DATE

Deborah Kula

DEBORAH KULA, PE, SPECIAL PROJECTS ENGINEER

02/29/2024

DATE

THESE CONSTRUCTION DRAWINGS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR STORMWATER IMPROVEMENTS ONLY.

ENGINEERING ACCEPTANCE BLOCK

FOR AND ON BEHALF OF
 ICON ENGINEERING, INC.

Troy Carmann
 TROY CARMANN, PE, PRINCIPAL

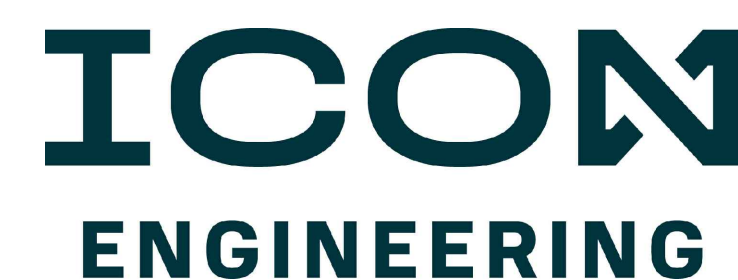
2/29/2024

DATE

Cole Cerise
 COLE CERISE, PROJECT ENGINEER

2/29/2024

DATE



DOUGLAS COUNTY STANDARD NOTES:

1. THE DOUGLAS COUNTY ENGINEERING DIRECTOR SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE ENGINEERING DIVISION HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL CONFORMANCE WITH THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS AND THE DOUGLAS COUNTY SUBDIVISION RESOLUTION OR ACCEPTED VARIANCES TO THOSE REGULATIONS. THE DOUGLAS COUNTY ENGINEERING DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS PAGE 3-2 DIRECTOR, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY, OTHER THAN STATED ABOVE, FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS. THE OWNER AND ENGINEER UNDERSTAND THAT THE RESPONSIBILITY FOR THE ENGINEERING ADEQUACY OF THE FACILITIES DEPICTED IN THIS DOCUMENT LIES SOLELY WITH THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO WHOSE STAMP AND SIGNATURE AFFIXED TO THIS DOCUMENT.
2. ALL CONSTRUCTION SHALL CONFORM TO DOUGLAS COUNTY STANDARDS. ANY CONSTRUCTION NOT SPECIFICALLY ADDRESSED BY THESE PLANS AND SPECIFICATIONS WILL BE BUILT IN COMPLIANCE WITH THE LATEST EDITION OF THE MOST STRINGENT OF THE FOLLOWING:
 - THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS
 - THE COLORADO DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - THE COLORADO DEPARTMENT OF TRANSPORTATION M STANDARDS
3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DOUGLAS COUNTY ENGINEERING DIVISION AS APPLICABLE. THE COUNTY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL NOTIFY THE DOUGLAS COUNTY ENGINEERING INSPECTION DIVISION, 303-660-7487, A MINIMUM OF 24-HOURS AND A MAXIMUM OF 72-HOURS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL NOTIFY DOUGLAS COUNTY ENGINEERING INSPECTION WHEN WORKING OUTSIDE OF THE PUBLIC RIGHT-OF-WAY ON ANY FACILITY THAT WILL BE CONVEYED TO THE COUNTY, URBAN DRAINAGE & FLOOD CONTROL DISTRICT, OR OTHER SPECIAL DISTRICT FOR MAINTENANCE (STORM SEWER, ENERGY DISSIPATERS, DETENTION OUTLET STRUCTURES, OR OTHER DRAINAGE INFRASTRUCTURES). FAILURE TO NOTIFY THE ENGINEERING INSPECTION DIVISION TO ALLOW THEM TO INSPECT THE CONSTRUCTION MAY RESULT IN NON-ACCEPTANCE OF THE FACILITY/INFRASTRUCTURE BY THE COUNTY AND/OR URBAN DRAINAGE.
5. CONSTRUCTION WILL NOT BEGIN UNTIL ALL APPLICABLE PERMITS HAVE BEEN ISSUED. IF A DOUGLAS COUNTY ENGINEERING INSPECTOR IS NOT AVAILABLE AFTER PROPER NOTICE OF CONSTRUCTION ACTIVITY HAS BEEN PROVIDED, THE PERMITTEE MAY COMMENCE WORK IN THE INSPECTOR'S ABSENCE. HOWEVER, DOUGLAS COUNTY RESERVES THE RIGHT NOT TO ACCEPT THE IMPROVEMENT IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
6. THE LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION CONTACT: COLORADO 811, AT 1-800-922-1987 (WWW.COLORADO811.ORG).
7. THE CONTRACTOR SHALL HAVE ONE (1) COPY OF THE PLANS SIGNED BY THE DOUGLAS COUNTY ENGINEERING DIRECTOR, ONE (1) COPY OF THE ROADWAY DESIGN AND CONSTRUCTION STANDARDS, AS AMENDED, AND ALL APPLICABLE PERMITS AT THE JOB SITE AT ALL TIMES.
8. ALL PROPOSED STREET CUTS TO EXISTING PAVEMENTS FOR UTILITIES, STORM SEWER OR FOR OTHER PURPOSES ARE LISTED AND REFERENCED BELOW:
 - SHEET 3 - RIDGEGLEN WAY
9. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SHALL BE SUBMITTED TO DOUGLAS COUNTY FOR ACCEPTANCE WITH THE RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT APPLICATION. A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN ACCEPTED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION.
10. THE CONSTRUCTION PLANS SHALL BE CONSIDERED VALID FOR THREE (3) YEARS FROM THE DATE OF COUNTY ACCEPTANCE, AFTER WHICH TIME THESE PLANS SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY DOUGLAS COUNTY.
11. DOUGLAS COUNTY STANDARD DETAILS SHALL NOT BE MODIFIED. ANY NON-STANDARD DETAILS WILL BE CLEARLY IDENTIFIED AS SUCH.
12. PAVING, INCLUDING CONSTRUCTION OF CURB AND GUTTER (WHEN USED), SHALL NOT START UNTIL A PAVEMENT DESIGN REPORT AND SUBGRADE COMPACTION TESTS ARE ACCEPTED BY THE ENGINEERING INSPECTION DIVISION FOR ALL PUBLIC AND PRIVATE ROADS.
13. STANDARD DOUGLAS COUNTY HANDICAP RAMPS ARE TO BE CONSTRUCTED AT ALL CURB RETURNS AND AT MID-BLOCK LOCATIONS OPPOSITE OF ONE OF THE CURB RETURNS OF ALL "T" INTERSECTIONS AS IDENTIFIED ON THESE PLANS.
14. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
15. ALL ELEVATIONS ARE ON UNITED STATES COAST AND GEODETIC SURVEY (USC&GS) (NAVD-88) DATUM WITH DATE. THE RANGE POINT OR MONUMENTS SHALL BE SHOWN ON CONSTRUCTION DRAWINGS.
16. ALL STORM SEWER IMPROVEMENTS (PUBLIC AND PRIVATE) INCLUDING, BUT NOT LIMITED TO, INLETS, PIPES, CULVERTS, CHANNELS, DITCHES, HYDRAULIC STRUCTURES, RIPRAP, DETENTION BASINS, FOREBAYS, MICROPOOLS, AND WATER QUALITY FACILITIES REQUIRE PERMITTING AND INSPECTIONS. PLEASE CONTACT THE DOUGLAS COUNTY ENGINEERING INSPECTIONS DIVISION AT 303- 660-7487 FOR PERMITTING REQUIREMENTS AND INSPECTIONS SCHEDULING.
17. TWO (2) MANHOLE ACCESS POINTS ARE REQUIRED ON ALL TYPE "R" CURB INLETS GREATER THAN OR EQUAL TO TEN (10) FEET IN LENGTH.
18. EPOXY COATED REBAR IS REQUIRED ON ALL DRAINAGE STRUCTURES.
19. DOUGLAS COUNTY REQUIRES CLASS D CONCRETE FOR ALL DRAINAGE STRUCTURES.
20. ALL RCP STORM SEWERS MUST USE ASTM C443 WATERTIGHT GASKETS PER THE CURRENT DOUGLAS COUNTY AND URBAN DRAINAGE DESIGN CRITERIA.
21. ALL RCP SHALL BE CLASS III STORM SEWER PIPE UNLESS OTHERWISE SPECIFIED.
22. JOINT RESTRAINTS ARE REQUIRED FOR A MINIMUM OF THE LAST TWO PIPE JOINTS AND FLARED END SECTION OF AN RCP OUTFALL.
23. PRECAST INLETS AND MANHOLE BASES ARE NOT ALLOWED.
24. TOE WALLS ARE REQUIRED ON FLARED END SECTIONS AT THE OUTLET END OF CULVERTS AND STORM SEWER OUTFALLS.
25. FILTER FABRIC IS REQUIRED UNDER ALL RIPRAP PADS.
26. THE PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF COLORADO, SIGNING THESE PLANS IS RESPONSIBLE FOR ENSURING THAT THE DETAILS INCLUDED ARE COMPATIBLE WITH THE STANDARD DOUGLAS COUNTY DETAILS CONTAINED IN THE LATEST VERSIONS OF THE CRITERIA MANUALS. THIS INCLUDES, BUT IS NOT LIMITED TO:
 - DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS
 - DOUGLAS COUNTY STORM DRAINAGE DESIGN AND TECHNICAL CRITERIA
 - DOUGLAS COUNTY GRADING, EROSION AND SEDIMENT CONTROL CRITERIA
 - CDOT M & S STANDARDS
 - MUTCD
 - URBAN STORM DRAINAGE CRITERIA MANUAL VOLUMES 1,2 & 3
27. A TEMPORARY CONSTRUCTION ACCESS PERMIT FROM DOUGLAS COUNTY MAY BE REQUIRED FOR ANY PROJECT.

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No.	DATE	REVISIONS	APPR.

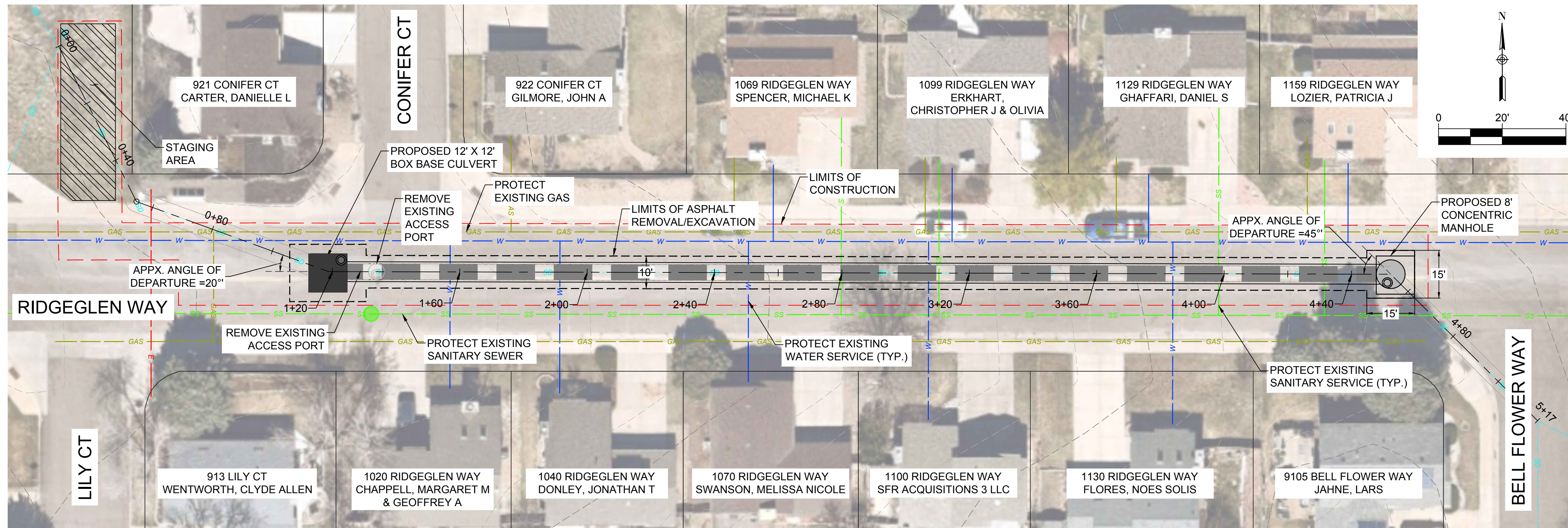
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PREPARED BY:

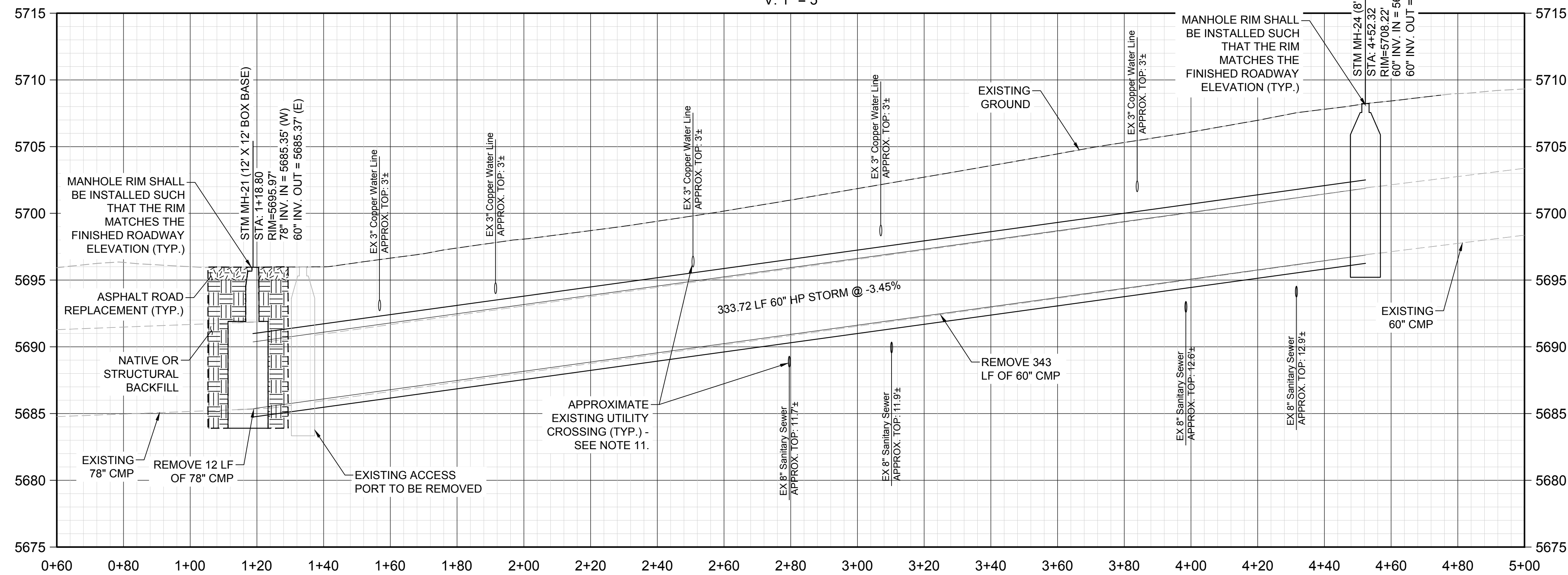
RIDGEGLEN WAY 60" STORM & MANHOLES		DATE
FINAL DESIGN		FEB 2024
STANDARD NOTES		SHEET
22-026-1		2 OF 8



- NOTES:
1. THE EXISTING PIPE ALIGNMENT AND DEPTHS SHOWN IN THIS PLAN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
 2. CONTRACTOR SHALL BE AWARE THAT THE LOCATION OF THE MANHOLES IS FIELD DEPENDENT AND WILL REQUIRE COORDINATION WITH DOUGLAS COUNTY SPECIAL PROJECTS TO ENSURE FIELD PLACEMENT WITH THE BEND AND OTHER UTILITIES.
 3. THE CONTRACTOR MUST SEPERATE OUT THE MATERIALS IN ORDER TO DUMP THEM AT THE WATERTON ROAD YARD. IF THE CONTRACTOR COMPETES DEMOLITION AND ALL MATERIALS ARE MIXED THEY SHALL BE TAKEN TO THE LANDFILL
 4. PROPOSED MANHOLES SHALL BE CONCENTRIC WITH FLAT TOP AND 36" RING AND COVER. BOX BASE MANHOLE BARREL SECTIONS SHALL HAVE A DIAMETER OF 5'.
 5. SEE DETAILS ON SHEETS 4 - 6 FOR MANHOLE CONSTRUCTION AND INSTALLATION.
 6. PROPOSED PIPE WILL BE 333.72 LF OF HP PIPE. THE PIPE LENGTH IS TO BE FIELD VERIFIED BY THE CONTRACTOR.
 7. ALL ASPHALT SHALL BE SAWCUT PRIOR TO REMOVAL.
 8. SHORING, IF NECESSARY, WILL BE COVERED UNDER FORCE ACCOUNT.
 9. SEE DETAILS ON SHEET 7 FOR TRENCH REQUIREMENTS, PIPE BEDDING, AND BACKFILL.
 10. BACKFILL OF EXCAVATION AROUND MANHOLES AND PIPES SHALL BE EITHER NATIVE OR STRUCTURAL BACKFILL UP TO WITHIN 12" OF ROADWAY. THE TOP 12" SHALL BE BACKFILLED WITH FLASH FILL AND FLASHFILL CAP. DOUGLAS COUNTY TO APPROVAL BACKFILL MATERIAL PRIOR TO PLACEMENT. DOUGLAS COUNTY WILL PROVIDE TESTING. SEE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARDS SP.43A-F, SP.45, SP.46A-B, SP.57, AND SP.60A-B. ALSO SEE CDOT STANDARD M-603-2 FOR PIPE COVER AND BEDDING REQUIREMENTS.
 11. TRAFFIC CONTROL PLAN TO BE PROVIDED BY CONTRACTOR AND APPROVED BY DOUGLAS COUNTY PRIOR TO THE START OF CONSTRUCTION. AT LEAST ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. NO FULL ROAD CLOSURES WILL BE PERMITTED.
 12. EXISTING UTILITIES IN THE PROPOSED AREA OF WORK, WITH THE EXCEPTION OF STORM SEWER, HAVE NOT BEEN MAPPED. THE CONTRACTOR SHALL CALL 811 FOR UTILITY MARKINGS PRIOR TO COMMENCING ANY EXCAVATION ACTIVITIES AND NOTIFY DOUGLAS COUNTY AND ENGINEER OF ANY POSSIBLE CONFLICTS.
 13. UTILITY CROSSING SHOWN IN THE PROFILE ARE APPROXIMATE AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AND DEPTHS IN THE FIELD.
 14. CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS TO ADJACENT HOMES AT ALL TIMES.
 15. EROSION CONTROL SHALL BE COORDINATED WITH SPECIAL PROJECTS.

PROFILE OF ALIGNMENT - CE-STORM

H: 1" = 20
V: 1" = 5



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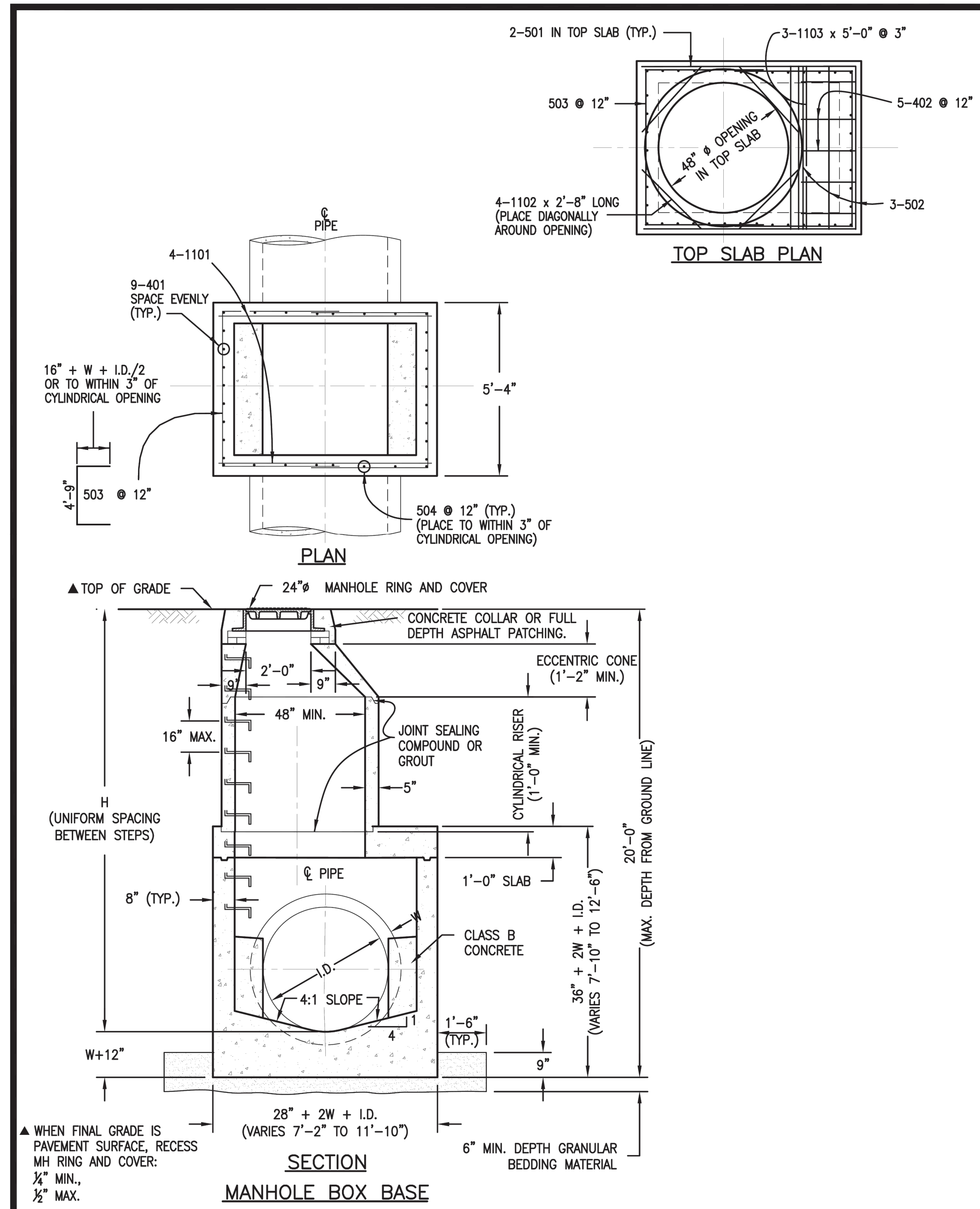
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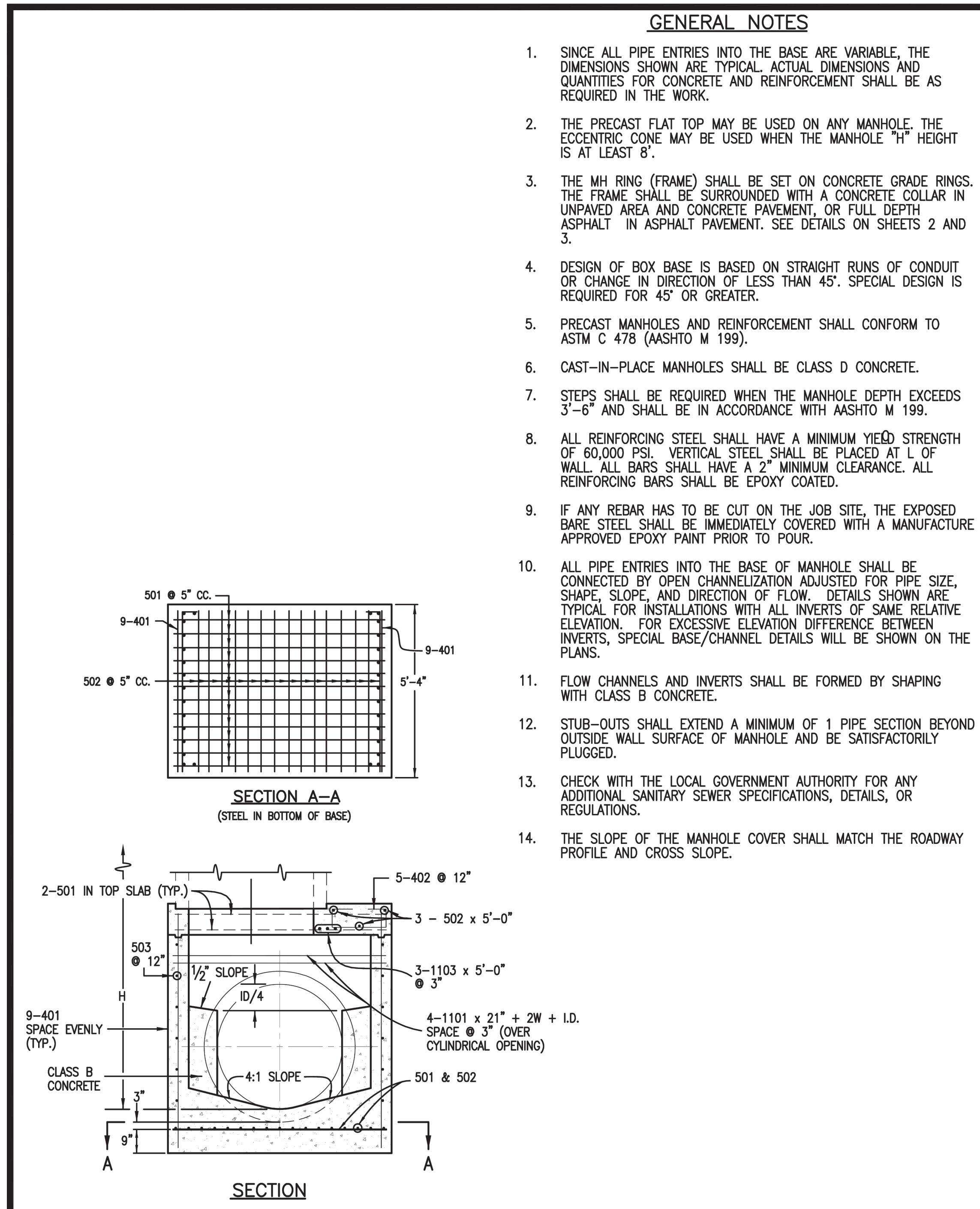
Know what's below.
Call before you dig.

PREPARED BY:

RIDGEGLEN WAY 60" STORM & MANHOLES		DATE
FINAL DESIGN		FEB 2024
PLAN & PROFILE		SHEET
22-026-1		3 OF 8



REFERENCE: CDOT M & S STANDARDS M-604-20	MANHOLES DOUGLAS COUNTY COLORADO	Issued: 05/2013 Revised: _____ Drawing No. SP.43a
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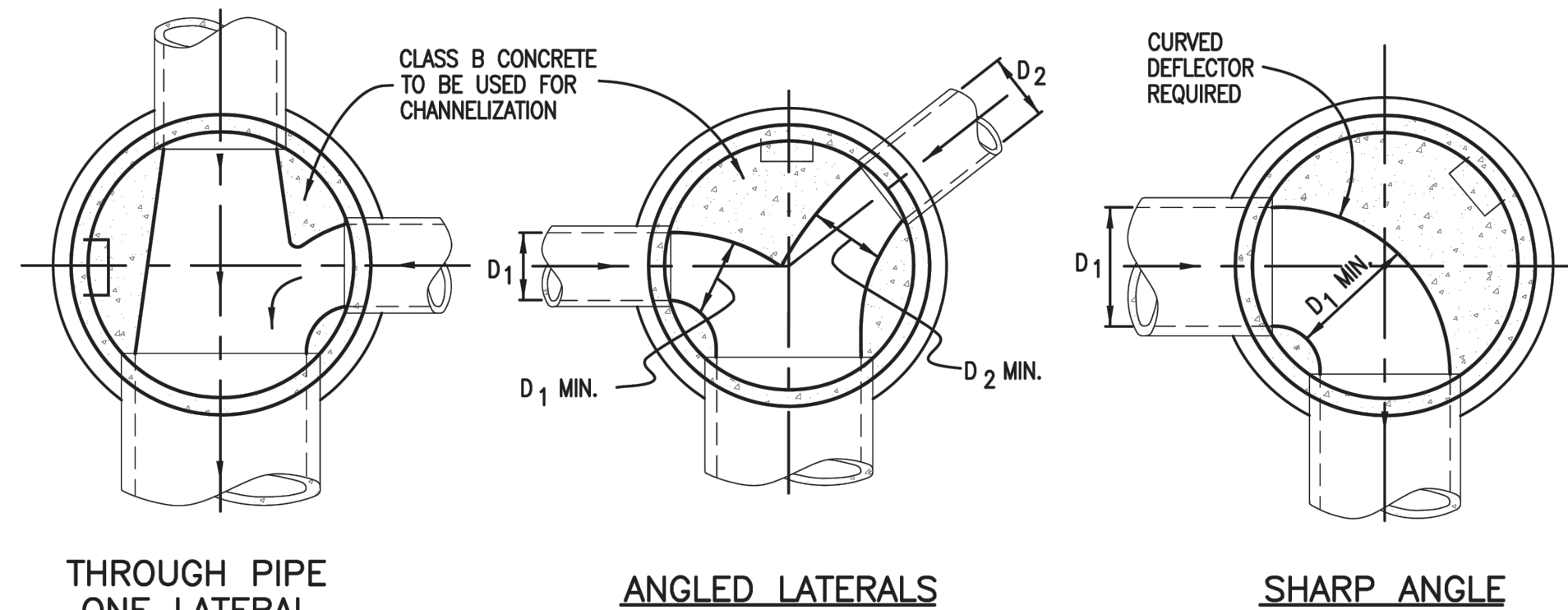
REFERENCE: CDOT M & S STANDARDS M-604-20	MANHOLES DOUGLAS COUNTY COLORADO	Issued: 05/2013 Revised: _____ Drawing No. SP.43b
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GENERAL NOTES

1. SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
2. THE PRECAST FLAT TOP MAY BE USED ON ANY MANHOLE. THE ECCENTRIC CONE MAY BE USED WHEN THE MANHOLE "H" HEIGHT IS AT LEAST 8'.
3. THE MH RING (FRAME) SHALL BE SET ON CONCRETE GRADE RINGS. THE FRAME SHALL BE SURROUNDED WITH A CONCRETE COLLAR IN UNPAVED AREA AND CONCRETE PAVEMENT, OR FULL DEPTH ASPHALT IN ASPHALT PAVEMENT. SEE DETAILS ON SHEETS 2 AND 3.
4. DESIGN OF BOX BASE IS BASED ON STRAIGHT RUNS OF CONDUIT OR CHANGE IN DIRECTION OF LESS THAN 45°. SPECIAL DESIGN IS REQUIRED FOR 45° OR GREATER.
5. PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO ASTM C 478 (AASHTO M 199).
6. CAST-IN-PLACE MANHOLES SHALL BE CLASS D CONCRETE.
7. STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3'-6" AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
8. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI. VERTICAL STEEL SHALL BE PLACED AT L OF WALL. ALL BARS SHALL HAVE A 2" MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
9. IF ANY REBAR HAS TO BE CUT ON THE JOB SITE, THE EXPOSED BARE STEEL SHALL BE IMMEDIATELY COVERED WITH A MANUFACTURE APPROVED EPOXY PAINT PRIOR TO POUR.
10. ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY OPEN CHANNELIZATION ADJUSTED FOR PIPE SIZE, SHAPE, SLOPE, AND DIRECTION OF FLOW. DETAILS SHOWN ARE TYPICAL FOR INSTALLATIONS WITH ALL INVERTS OF SAME RELATIVE ELEVATION. FOR EXCESSIVE ELEVATION DIFFERENCE BETWEEN INVERTS, SPECIAL BASE/CHANNEL DETAILS WILL BE SHOWN ON THE PLANS.
11. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE.
12. STUB-OUTS SHALL EXTEND A MINIMUM OF 1 PIPE SECTION BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
13. CHECK WITH THE LOCAL GOVERNMENT AUTHORITY FOR ANY ADDITIONAL SANITARY SEWER SPECIFICATIONS, DETAILS, OR REGULATIONS.
14. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.

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No.	DATE	REVISIONS	APPR.	DRAWN BY: CC	DESIGNED BY: CC/TR	APPROVED BY: TC	811 Know what's below. Call before you dig.	PREPARED FOR: DOUGLAS COUNTY COLORADO	PREPARED BY: ICON ENGINEERING 	RIDGEGLEN WAY 60" STORM & MANHOLES FINAL DESIGN	DATE FEB 2024 SHEET 4 OF 8
22-026-1											
DETAILS - 1											



TYPICAL CHANNELIZATION DETAILS

QUANTITIES FOR CONCRETE MANHOLE BOX BASE

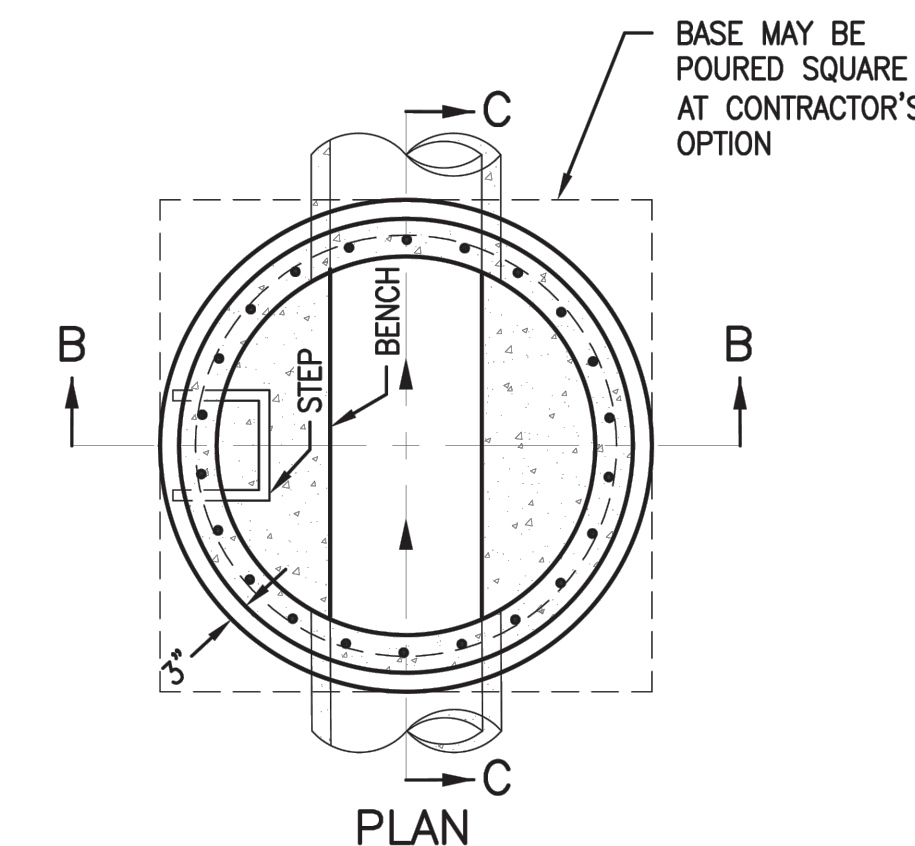
MARK	SIZE	TYPE	WT. #/FT.	BARS	I.D.					FORMULAS
					60"	66"	72"	84"	96"	
401	4	I	0.668	{ NO. REQ'D. LENGTH WEIGHT #	18 8'-8" 104.2	18 9'-3" 111.2	18 9'-10" 118.2	18 11'-0" 132.3	18 12'-2" 146.3	401 BAR LENGTH = 32"+2W+I.D.
402	4	III	0.668	{ NO. REQ'D. LENGTH WEIGHT #	5 6'-0" 20.0	5 6'-7" 22.0	5 7'-2" 23.9	5 8'-4" 27.8	5 9'-6" 31.7	402 BAR LENGTH = I.D. + 2W
501	5	I	1.043	{ NO. REQ'D. LENGTH WEIGHT #	17 8'-0" 141.8	17 8'-7" 152.2	17 9'-2" 162.5	17 10'-4" 183.2	17 11'-6" 203.9	501 BAR LENGTH = 24" + I.D. + 2W
502	5	I	1.043	{ NO. REQ'D. LENGTH WEIGHT #	23 5'-0" 119.9	25 5'-0" 130.4	26 5'-0" 135.6	29 5'-0" 151.2	32 5'-0" 166.9	502 NUMBER BARS REQ'D. = 3 + ((24+I.D.+2W)/5 + 1)
503	5	II	1.043	{ NO. REQ'D. LENGTH WEIGHT #	16 13'-5" 223.9	18 14'-0" 262.8	18 14'-7" 273.8	20 15'-9" 328.5	24 16'-11" 423.5	503 NUMBER BARS REQ'D. = 2 ((13+I.D.+2W)/12 + 1) BAR LENGTH = 4'-9"+2(16+W+I.D./2)
504	5	I	1.043	{ NO. REQ'D. LENGTH WEIGHT #	14 8'-8" 126.6	14 9'-3" 135.1	16 9'-10" 164.1	18 11'-0" 206.5	20 12'-2" 253.8	504 NUMBER BARS REQ'D. = 2 ((2W+I.D.-4)/12 + 1) BAR LENGTH = 32"+2W+I.D.
1101	11	I	5.313	{ NO. REQ'D. LENGTH WEIGHT #	4 7'-9" 164.7	4 8'-4" 177.1	4 8'-11" 189.5	4 10'-1" 214.3	4 11'-3" 239.1	1101 BAR LENGTH = 21" + I.D. + 2W
1102	11	I	5.313	{ NO. REQ'D. LENGTH WEIGHT #	4 2'-8" 56.7	4 2'-8" 56.7	4 2'-8" 56.7	4 2'-8" 56.7	4 2'-8" 56.7	BENDING TYPE I STRAIGHT
1103	11	I	5.313	{ NO. REQ'D. LENGTH WEIGHT #	3 5'-0" 79.7	3 5'-0" 79.7	3 5'-0" 79.7	3 5'-0" 79.7	3 5'-0" 79.7	TYPE II 4'-9" 16"+W+I.D./2
REINFORCING STEEL TOTAL *					1,037.5	1,127.2	1,204.0	1,380.2	1,601.6	
CONCRETE - CUBIC YARDS - TOTAL					6.6	7.3	8.0	9.5	11.1	

NOTE: QUANTITIES ARE BASED ON SAME SIZE PIPE ENTRANCE TO AND EXIT FROM, BASE AND A 4 FT. MANHOLE ENTRANCE INTO TOP SLAB OF BASE.

REFERENCE:
CDOT M & S STANDARDS
M-604-20

MANHOLES

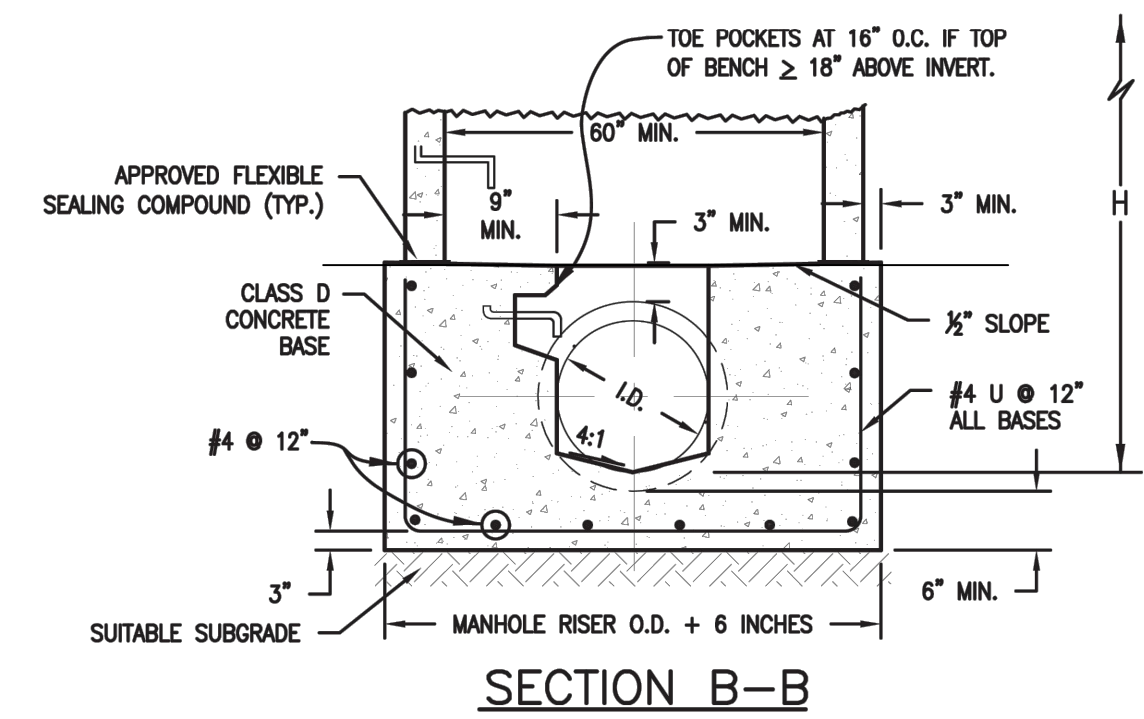
Issued: 05/2013
Revised: _____
Drawing No. **SP.43c**



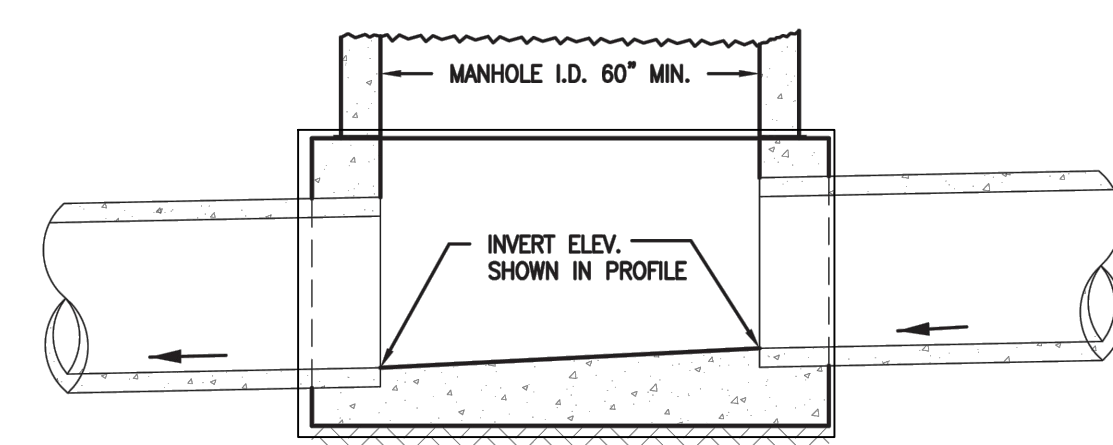
LEGEND

	SUITABLE SUBGRADE
	GRANULAR BEDDING MATERIAL
	CONCRETE

- MANHOLE BASES:**
- THE BASE SLAB SHALL BE POURED MONOLITHICALLY WITH BOTTOM RISER SECTION.
 - MANHOLE BASES SHALL FIT THE CONDITIONS AND LOCATIONS FOR WHICH THEY ARE INTENDED WITHOUT ANY FIELD MODIFICATIONS. ANY MANHOLE BASE WHICH REQUIRES FIELD CUTTING OR MODIFICATION IN ORDER TO FIT THE LOCATIONS INTENDED WILL BE REJECTED BY THE ENGINEER AND REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT.
 - MANHOLE BASES SHALL BE BEDDED ON AN APPROVED GRANULAR BEDDING MATERIAL AS SHOWN ABOVE.



SECTION B-B



SECTION C-C

CAST-IN-PLACE SLAB BASE

REFERENCE:
CDOT M & S STANDARDS
M-604-20

MANHOLES

Issued: 05/2013
Revised: _____
Drawing No. **SP.43d**

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No.	DATE	REVISIONS	APPR.

DRAWN BY: CC
DESIGNED BY: CC/TR
APPROVED BY: TC

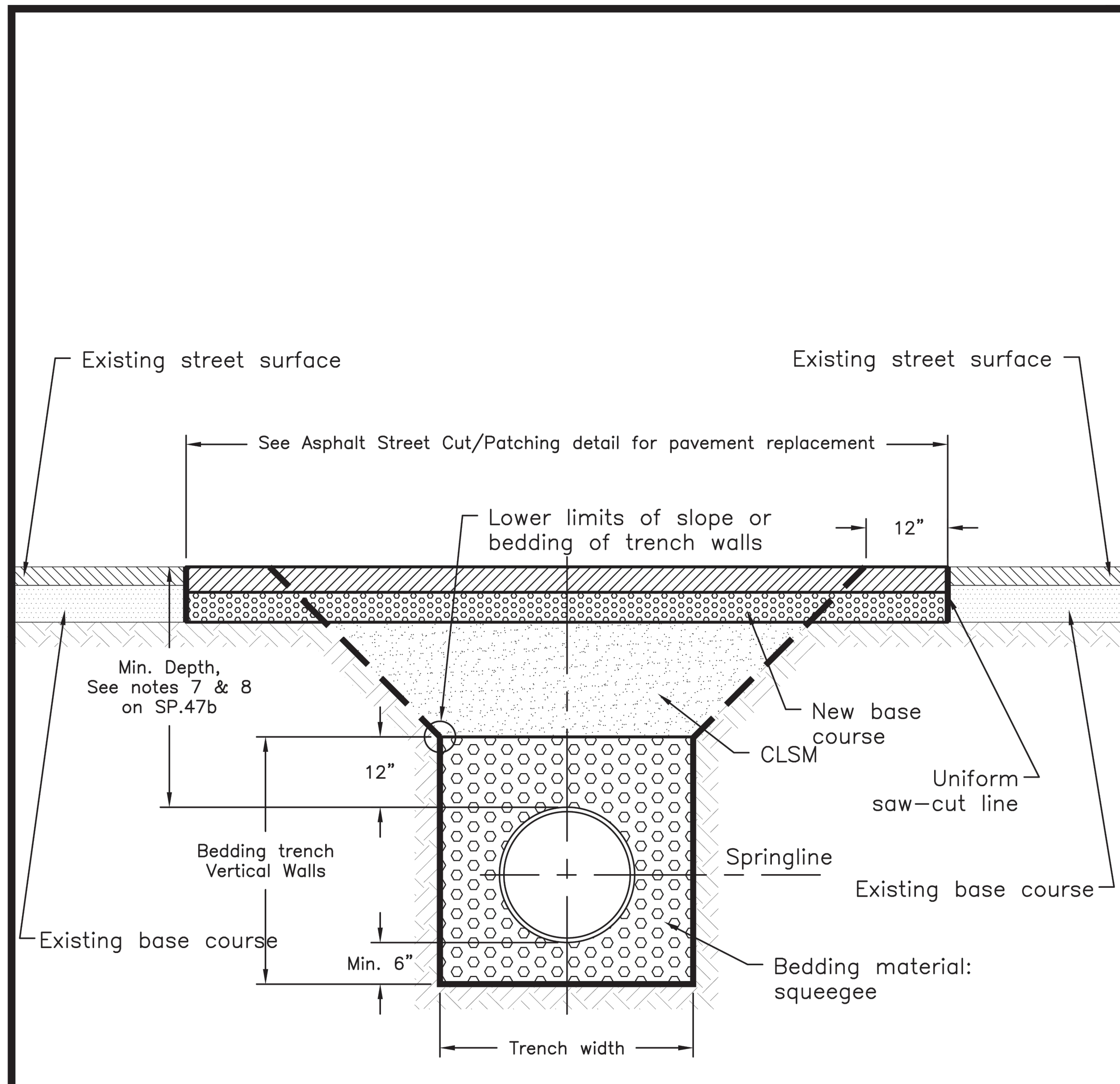
Know what's below.
Call before you dig.

PREPARED FOR:

PREPARED BY:

RIDGEGLEN WAY 60" STORM & MANHOLES
FINAL DESIGN
DETAILS - 2

DATE	FEB 2024
SHEET	5 OF 8



NOTE: SEE NOTES ON SP.47b

TO BE USED FOR STREET CUT ONLY

APPROVED BY DOUGLAS COUNTY <i>Janet Herman</i> JANET HERMAN, P.E. DIRECTOR OF PUBLIC WORKS ENGINEERING DATE 06/18/2021	PIPE INSTALLATION IN TRENCH FOR STREET CUT DOUGLAS COUNTY COLORADO	Issued: 05/2013 Revised: 05/2021 Drawing No. SP.47a
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NOTES:

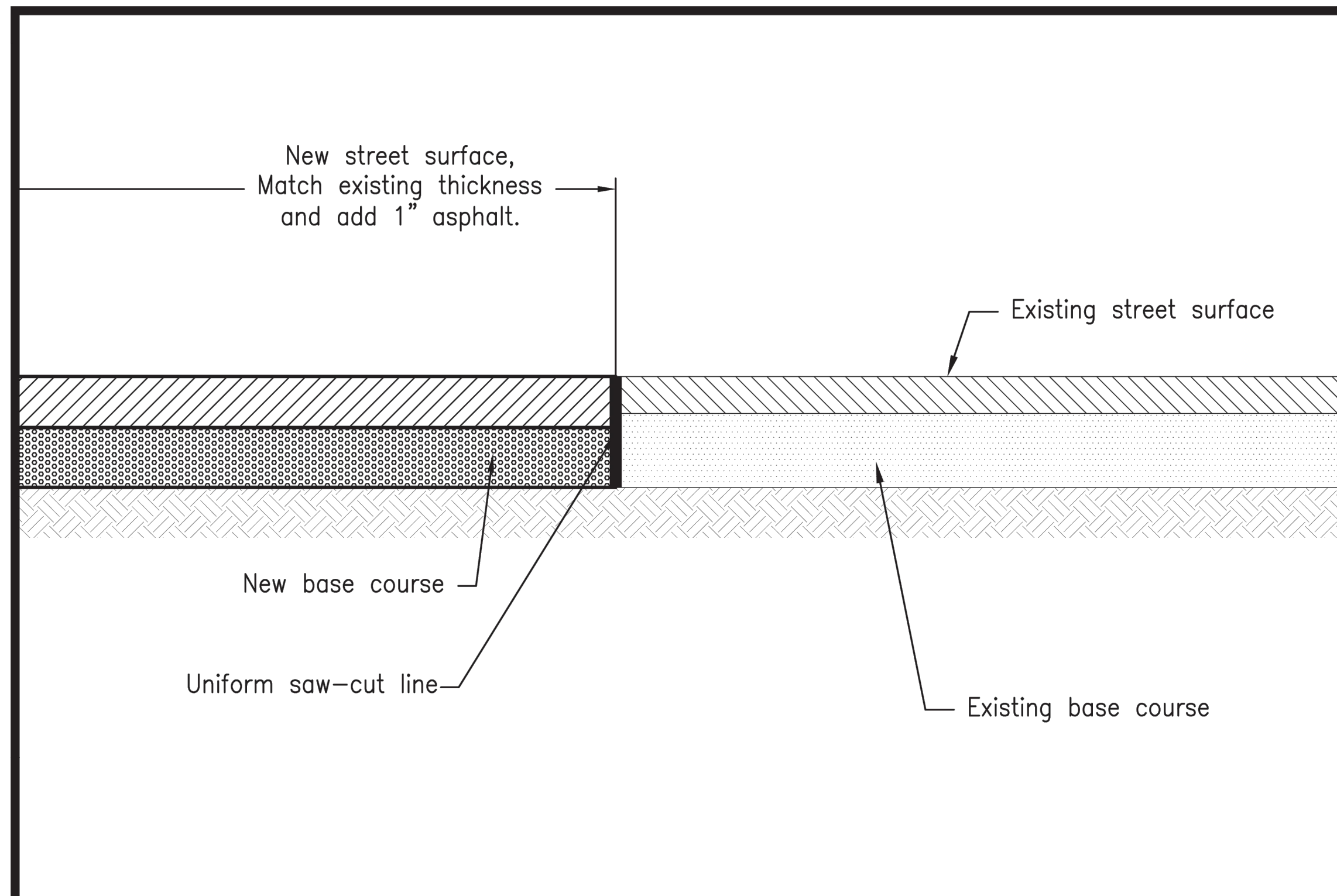
1. This Pipe Installation detail specifies requirements in addition to those specified in the latest edition of the Colorado Department of Transportation's Standard Specifications for Road and Bridge Construction.
2. A Construction Traffic Control Plan shall be submitted to and approved by Douglas County prior to issuance of Construction Permits in the County Right-Of-Way.
3. Pipe shall be bedded from 6" below the bottom of the pipe to 12" above the top of pipe.
4. Trench width shall not be more than 16" and not less than 12" wider than the largest Outside Diameter of the pipe.
5. All storm sewers shall be constructed so that a minimum cover is maintained to withstand AASHTO HS-20 loading on the pipe. The minimum cover to withstand live loading depends upon the pipe size, type and class, and soil bedding condition, but shall be not less than 2-foot at any point along the pipe.
6. For water and sanitary sewer pipes, refer to the maintaining district standards for pipe bedding materials.
7. Pavement edges shall be saw-cut and kept to a neat vertical edge prior to paving.
8. Edges shall be tack coated prior to patching.
9. When storm sewer pipe is to be extended or replaced with pipe of different material, the connections shall conform to the detail shown on plans or be approved through Douglas County Engineering.
10. When two or more conduits are laid side-by-side, they shall be placed so that they are 1/2 outside diameter, or 1/2 outside span, or 3' apart, whichever is less. However, if end sections are used, the minimum spacing shall be 1' between the outside edge of end sections.
11. Trench installation per OSHA Standards.

TO BE USED FOR STREET CUT ONLY

APPROVED BY DOUGLAS COUNTY <i>Janet Herman</i> JANET HERMAN, P.E. DIRECTOR OF PUBLIC WORKS ENGINEERING DATE 06/18/2021	PIPE INSTALLATION IN TRENCH FOR STREET CUT NOTES DOUGLAS COUNTY COLORADO	Issued: 05/2013 Revised: 05/2021 Drawing No. SP.47b
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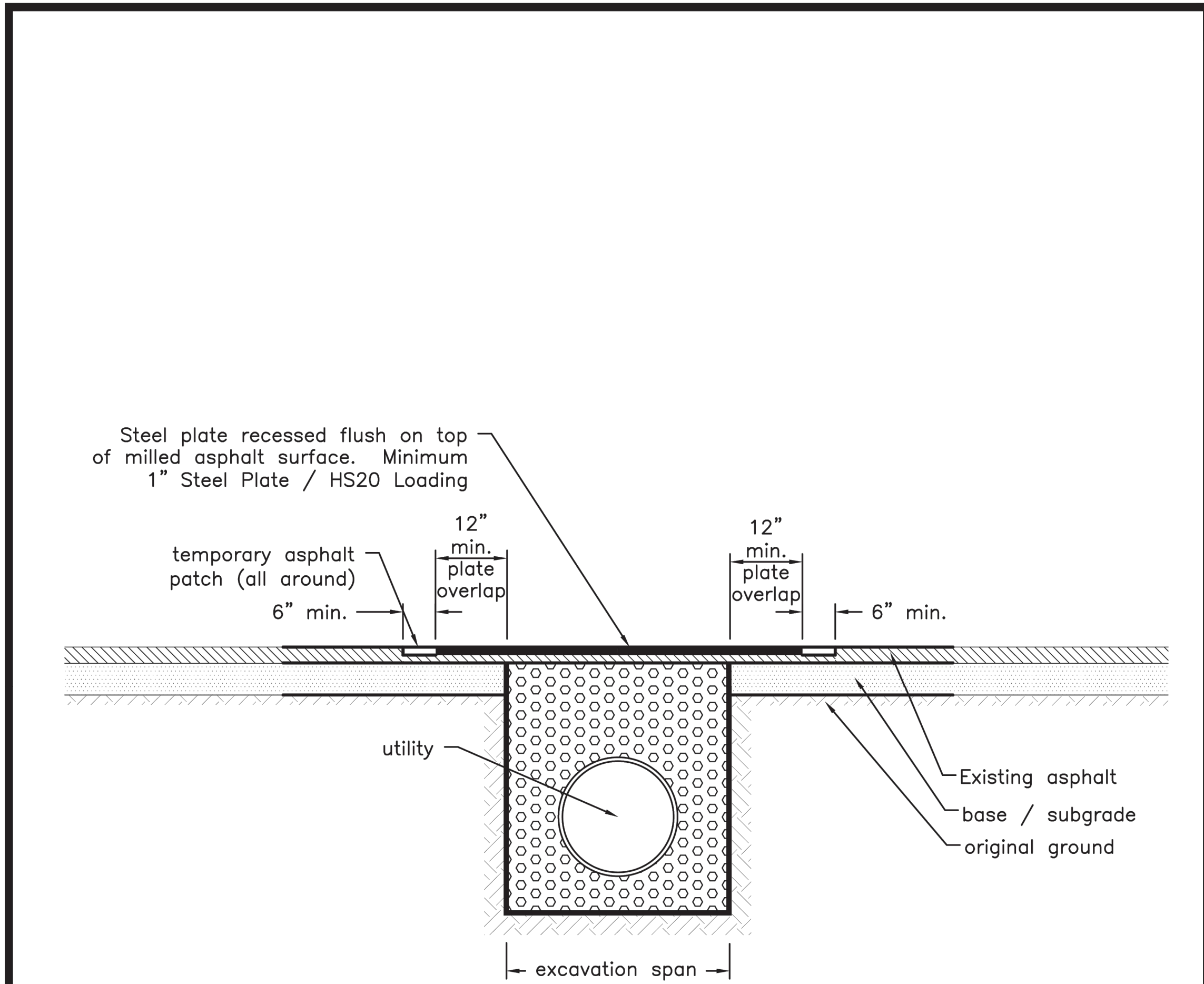
No.	DATE	REVISIONS	APPR.	DRAWN BY: CC DESIGNED BY: CC/TR APPROVED BY: TC	Know what's below. Call before you dig. DOUGLAS COUNTY COLORADO PREPARED FOR:	PREPARED BY: ICON ENGINEERING 	RIDGEGLEN WAY 60" STORM & MANHOLES FINAL DESIGN DETAILS - 4	DATE FEB 2024 SHEET 7 OF 8
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NOTES:

1. This Street Cut/Patching detail specifies requirements in addition to those specified in the latest edition of the Colorado Department of Transportation's Standard Specifications for Road and Bridge Construction.
2. A Construction Traffic Control Plan shall be submitted to and approved by Douglas County prior to issuance of Construction Permits in the County Right-Of-Way.
3. Pavement edges shall be saw-cut and kept to a neat vertical edge prior to paving.
4. Edges shall be tack coated prior to patching.

APPROVED BY DOUGLAS COUNTY <i>Janet Herman</i> JANET HERMAN, P.E. DIRECTOR OF PUBLIC WORKS ENGINEERING DATE <u>06/18/2021</u>	ASPHALT STREET CUT/PATCHING DOUGLAS COUNTY COLORADO	Issued: <u>05/2013</u> Revised: <u>05/2021</u> Drawing No. SP.62
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NOTES:

1. May only be used from May 15 to October 15.
2. Must have prior approval by Douglas County.

APPROVED BY DOUGLAS COUNTY <i>Janet Herman</i> JANET HERMAN, P.E. DIRECTOR OF PUBLIC WORKS ENGINEERING DATE <u>06/18/2021</u>	TEMPORARY STEEL PLATE DOUGLAS COUNTY COLORADO	Issued: <u>04/2020</u> Revised: <u>05/2021</u> Drawing No. SP.63
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No.	DATE	REVISIONS	APPR.	DRAWN BY: CC DESIGNED BY: CC/TR APPROVED BY: TC	Know what's below. Call before you dig.	PREPARED FOR: DOUGLAS COUNTY COLORADO	PREPARED BY: 	RIDGEGLEN WAY 60" STORM & MANHOLES FINAL DESIGN DETAILS - 5	DATE FEB 2024 SHEET 8 OF 8
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EXHIBIT B REV 1
RIDGEGLEN WAY 60" STORM SEWER REMOVE AND REPLACEMENT
SP2024-004


ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
202	SAWCUT , REMOVE & DISPOSE ASPHALT PAVEMENT	415	SY	\$ 15.00	\$6,225.00
202	SAWCUT AND REMOVE EX. CMP & DISPOSE	353	LF	\$ 20.00	\$7,060.00
206	FLASH FILL WITH CAP (100 PSI MIN, 150 PSI MAX AT 28-DAYS)	140	CY	\$ 250.00	\$35,000.00
206	MUCK EXCAVATION, REPLACE WITH SUITABLE MATERIAL	100	CY	\$ 85.00	\$8,500.00
208	EROSION CONTROL	1	LS	\$ 7,000.00	\$7,000.00
208	STORMWATER MANAGEMENT PLAN	1	LS	\$ 6,000.00	\$6,000.00
604	CAST IN PLACE 8' DIAMETER MANHOLE (15' DEPTH) with FLAT TOP	1	EA	\$ 20,500.00	\$20,500.00
604	CAST IN PLACE 12'X12' BOX BASE MANHOLE WITH 5' DIA. BARRELS - 15' DEPTH	1	EA	\$ 42,200.00	\$42,200.00
604	36" RING AND COVER	2	EA	\$ 1,400.00	\$2,800.00
626	MOBILIZATION	1	LS	\$ 17,000.00	\$17,000.00
630	CONSTRUCTION ZONE TRAFFIC CONTROL	1	LS	\$ 24,000.00	\$24,000.00
712	60" HP STORM SEWER PIPE PER CDOT M-603-4, AASHTO M330	343	LF	\$ 544.00	\$186,592.00
	UTLITY INVESTIGATION - LOCATED EX. CMP, BENDS AND UTILITIES	1	LS	\$ 4,500.00	\$4,500.00
	FORCE ACCOUNT				TBD BY DOUGLAS COUNTY

TOTAL BID

\$367,377.00

ACTUAL COMPLETED QUANTITIES SHALL BE BILLED MONTHLY

ASSUMPTIONS: IF MATERIALS ARE KEPT SEPARATE, ASPHALT DEMOLITION AND BASE COURSE/BACKFILL MAY BE TAKEN TO THE WATERTON YARD TO BE DISPOSED OF. EXCAVATION AND BACKFILL ALONG PIPE ALIGNMENT IS INCIDENTAL TO PIPE INSTALLATION. EXCAVATION AND BACKFILL AROUND PROPOSED MANHOLE STRUCTURES IS INCIDENTAL TO MANHOLE INSTALLATION.

53 Corporation
Chris Hoyt

3/25/24