



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

INVITATION TO BID
COVER PAGE

BID Number: **7194-20**

BID Title: **Lake Valley/North Rim Resurfacing**

Non-Mandatory Pre-Bid Meeting: Friday, December 18, 2020 at 9:00 AM
Microsoft Teams meeting
Join on your computer or mobile app
[Click here to join the meeting](#)
Or call in (audio only)
[+1 720-400-7859](tel:+17204007859), United States, Denver
Phone Conference ID: 245 234 302#

BID Questions Due: Monday, January 4, 2021 - 2:00 PM

Submittal Due Date: **Friday, January 15, 2021 - 2:00 PM**

Email Address: purchasing@bouldercounty.org

Documents included in this package:

- Bid Instructions
- Terms and Conditions
- Specifications
- Insurance and W-9 Requirements
- Submittal Checklist
- Bid Tab
- Signature Page
- Sample Contract



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INSTRUCTIONS

1. Purpose/Background

This project consists of full depth reclamation and overlay paving of the existing community use roads located in the Lake Valley Estates replat, Lake Valley / North Rim subdivisions all of which are located within unincorporated Boulder County, Colorado. Fairways Drive, Niblick Drive and Golf Club Drive will be resurfaced with hot mix asphalt (HMA), designed for a 20-year service life. Supplementary work for the site includes: Stormwater management, concrete sidewalk, cross pans, traffic control, surveying, and striping and shouldering of new pavement.

2. Non-Mandatory Pre-Bid Meeting

A Non-Mandatory Pre-Proposal Video Conference Meeting through Microsoft Teams will be held on December 18, 2020 at 9:00 a.m. Please click on the link on the cover page, or call +1 720-400-7859, Phone Conference ID: 245 234 302#.

3. Written Inquiries

All inquiries regarding this BID will be submitted via email to the Boulder County Purchasing Office at purchasing@bouldercounty.org on or before **2:00 p.m. January 4, 2021**. A response from the county to all inquiries will be posted and sent via email no later than **January 8, 2021**.

Please do not contact any other county department or personnel with questions or for information regarding this solicitation.

4. Submittal Instructions

BIDs are due at the email box only, listed below, for time and date recording on or before **2:00 p.m. Mountain Time on January 15, 2021**. A bid opening will be conducted at 3:00 p.m. via email by sending a copy of the bid tab to all who have submitted a bid.

Please note that email responses to this solicitation are limited to a maximum of 50MB capacity. NO ZIP FILES OR LINKS TO EXTERNAL SITES ALLOWED. Electronic submittals must be received in the email box listed below. Submittals sent to any other box will NOT be forwarded or accepted. This email box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email. It is the sole responsibility of the proposer to ensure their documents are received before the deadline specified above. Boulder County does not accept responsibility under any circumstance for delayed or failed email or mailed submittals.

Email: purchasing@bouldercounty.org; identified as **BID # 7194-20** in the subject line.

All BIDs must be received and time and date recorded by authorized county staff by the above due date and time. Sole responsibility rests with the bidder to see that their BID response is received on time at the stated location(s). Any BIDs received after due date and time will be returned to the bidder.

The Board of County Commissioners reserves the right to reject any and all BIDs, to waive any informalities or irregularities therein, and to accept the proposal that, in the opinion of the Board, is in the best interest of the Board and of the County of Boulder, State of Colorado.

Americans with Disabilities Act (ADA): If you need special services provided for under the Americans with Disabilities Act, contact the ADA Coordinator or the Human Resources office at (303) 441-3525 at least 48 hours before the scheduled event.



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TERMS AND CONDITIONS

1. Bidders are expected to examine the drawing, specifications, schedule of delivery, and all instructions. Failure to do so will be at the bidder's risk.
2. Each bidder will furnish the information required in the Invitation to Bid.
3. The Contract/Purchase Order will be awarded to that responsible bidder whose submittal, conforming to the Invitation to Bid, will be most advantageous to the County of Boulder, based on best value not only price.
4. The County of Boulder reserves the right to reject any or all bids and to waive informalities and minor irregularities in bids received, and to accept any portion of or all items proposed if deemed in the best interest of the County of Boulder to do so.
5. No submittal will be withdrawn for a period of thirty (30) days subsequent to the opening of bids without the consent of the County Purchasing Agent or delegated representative.
6. A signed purchase order or contract furnished to the successful bidder results in a binding contract without further action by either party.
7. Late or unsigned bids will not be accepted or considered. It is the responsibility of bidders to ensure that the bid arrives at the Administrative Services Information Desk prior to the time indicated in the "Invitation to Bid."
8. The proposed price will be exclusive of any Federal or State taxes from which the County of Boulder is exempt by law.
9. Any interpretation, correction or change of the bid documents will be made by Addendum. Interpretations, corrections and changes of the bid documents made in any other manner will not be binding, and bidder will not rely upon such interpretations,

corrections and changes. The County's Representative will not be responsible for oral clarification.

10. Confidential/Proprietary Information: Bids submitted in response to this "Invitation to Bid" and any resulting contract are subject to the provisions of the Colorado Public (Open) Records Act, 24-72-201 et.seq., C.R.S., as amended. Any restrictions on the use or inspection of material contained within the bid and any resulting contract will be clearly stated in the bid itself. Confidential/proprietary information must be readily identified, marked and separated/packaged from the rest of the bid. **Co-mingling of confidential/proprietary and other information is NOT acceptable. Neither a bid, in its entirety, nor bid price information will be considered confidential/proprietary. Any information that will be included in any resulting contract cannot be considered confidential.**

The Boulder County Attorney's Office retains sole authority for determining whether the Colorado Open Records Act requires or permits Boulder County to disclose proposal or bid documents, or any information contained therein, pursuant to an open records request.

11. Boulder County promotes the purchase/leasing of energy efficient, materials efficient and reduced toxic level products where availability, quality and budget constraints allow. Bidders are expected whenever possible to provide products that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency with power management features enabled. Bidders are encouraged to offer products and equipment with post-consumer recycled-content materials. Products should be packaged and delivered with a minimum amount of recycled packaging that adequately protects the product, but is not excessive.



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SPECIFICATIONS

**BOULDER COUNTY
PUBLIC WORKS DEPARTMENT
BOULDER COUNTY, COLORADO**

PROJECT NO : RS-000-021

Lake Valley/North Rim Resurfacing Project

The following special provisions take precedence over the specifications and plans and supplement the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION adopted by the Colorado Department of Transportation - 2019, which is to be used to control construction on this project.

PROJECT DATED SPECIAL PROVISIONS

Notice to Bidders	NOVEMBER 2020
Commencement and Completion of Work	NOVEMBER 2020
General Information	NOVEMBER 2020
Revision of Section 101 – Definitions and Terms	NOVEMBER 2020
Revision of Section 102 – Project Plans and Other Data	NOVEMBER 2020
Revision of Section 104 – Scope of Work	NOVEMBER 2020
Revision of Section 105 – Control of Work	NOVEMBER 2020
Revision of Section 107 – Legal Relations and Responsibility to Public	NOVEMBER 2020
Revision of Section 108 – Prosecution and Progress	NOVEMBER 2020
Revision of Section 201 – Clearing and Grubbing	NOVEMBER 2020
Revision of Section 202 – Removal of Structures and Obstructions	NOVEMBER 2020
Revision of Section 203 – Excavation and Embankment	NOVEMBER 2020
Revision of Section 208 – Erosion Control	NOVEMBER 2020
Revision of Section 209 – Dust Palliatives	NOVEMBER 2020
Revision of Section 210 – Adjust Valves	NOVEMBER 2020
Revision of Section 304 – Aggregate Base Course	NOVEMBER 2020

Revision of Section 310 – Full-depth Reclamation of HMA Pavement	NOVEMBER 2020
Revision of Section 403 – Hot Mix Asphalt	NOVEMBER 2020
Revision of Section 407 – Prime Coat, Tack Coat and Rejuvenating Agent	NOVEMBER 2020
Revision of Section 625 – Construction Surveying	NOVEMBER 2020
Revision of Section 626 – Mobilization	NOVEMBER 2020
Revision of Section 627 – Pavement Marking	NOVEMBER 2020
Revision of Section 630 – Construction Zone Traffic Control	NOVEMBER 2020

NOTICE TO BIDDERS

The proposal guaranty shall be a certified check, cashier's check, or bid bond in the amount of 10% of the Contractor's total bid.

Pursuant to section 102.04 and 102.05, it is recommended that bidders on this project direct all questions regarding plan details to the authorized Boulder County representative. Prospective bidders shall contact the following authorized Boulder County representative.

Project Manager: Daniel DeLange
Boulder County
2525 13th Street
PO BOX 471
Boulder, Colorado 80306

Public Works Office Phone (303) 441-3900

The above-referenced individual is the only representative of Boulder County with authority to provide any information, clarification, or interpretation regarding the plans, specifications, and any other contract documents or requirements.

A pre bid conference will be held on VIRTUALLY December 18th, beginning at 9:00AM.

The bids for this project will be accepted by **2:00 p.m. Friday, January 15, 2021**. **The County reserves the right to award this project in a manner that will best meet the needs of the County.**

The unit price or lump sum price for each bid item in the Bid Schedule shall include its prorated share of overhead and profit so the sum of the products obtained by multiplying the quantity shown for each item by unit price represents the total bid.

All questions shall be submitted via email to purchasing@bouldercounty.org by **2:00 p.m. Monday, January 4, 2021**. Answers will be posted on or before **January 8, 2021**.

Questions and answers shall be used for reference only and shall not be considered part of the Contract.

COMMENCEMENT AND COMPLETION OF WORK

The Contractor shall commence work under this Contract on or after the 5th day following contract execution, unless such time for beginning the work shall be changed by Boulder County Public Works in the "Notice to Proceed." The contractor has until September 30, 2021 to complete the work in accordance with the Notice to Proceed. Once work has begun, the contractor will have 60 days to complete. The contractor shall notify Boulder County 30 days prior to start of construction. Once the contractor starts in a particular location with a specific element of work, he cannot leave that portion of the project until it is complete. Due to paving temperature requirements, construction will not take place over the winter.

DETOURS AND ROAD CLOSURES

No full road closures are expected to be necessary to complete the work;

Designated detours may be implemented, as well as lane closures, with advance notice and the Engineer's approval. The Contractor must submit Traffic Control Plans for each phase of the project at least two weeks ahead of the requested lane closure. Local access for residents, mail, delivery services, school buses and emergency vehicles must be maintained during construction hours, as well as after construction hours and on weekends. Emergency vehicles must be accommodated to pass through the construction site at all times.

GENERAL INFORMATION

1. The Colorado Department of Transportation "Standard Specifications for Road and Bridge Construction", 2019 (hereafter referred to as the "Standard Specifications"), and the Boulder County Multi-Modal Transportation Standards are made a part of this Contract by this reference, except as revised herein, and are hereby adopted as the minimum Standard Specifications of Compliance for this project. In those instances where the Standard Specifications conflict with any of the provisions of the Project Dated Special Provisions, the Project Dated Special Provisions shall govern.
2. The Contractor shall have a copy of the Colorado Department of Transportation "Standard Specifications for Road and Bridge Construction", 2019 on the project site at all times.
3. The Contractor is responsible for obtaining a CDPS-SCP (Colorado Discharge Permit System - Stormwater Construction Permit) from the CDPHE (Colorado Department of Public Health and Environment) prior to construction.
4. A Stormwater Quality Permit (SWQP) from the County Engineer is required for construction activity resulting in the following:
 - a. Total disturbed area One acre or more; or
 - b. Disturbed area less than one acre, if construction activity is part of a larger common plan of development, even if multiple, separate, and distinct land development activities may take place at different times on different schedules, so long as the common plan will ultimately disturb one acre or more.
 - c. The County Engineer may require a stormwater quality permit regardless of the size of the total disturbed area, in conjunction with approval of a final subdivision plat, special use permit, or other site specific development plan under this Code, or if the construction activity is adjacent to a watercourse or wetlands. For more information, refer to the Boulder County Land Use Department (CODE) website: <https://www.bouldercounty.org/property-and-land/land-use/planning/land-use-code/>.
 - d. Adjacent to a watercourse or wetlands means within 100 feet of the watercourse or wetland.

Since this projects disturbs over an acre, a Boulder County Stormwater Quality Permit is required and shall be obtained by the Contractor.

5. The Contractor is responsible to obtain any additional permits, license and/or certification required by County or State agencies necessary to complete the work included in the Contract Documents at no additional cost to the County.

**REVISION OF SECTION 101
DEFINITION AND TERMS**

Section 101 of the Standard Specifications is hereby revised for this project as follows:

Technical Specifications related to construction materials and methods for the work embraced under this Contract shall consist of the Colorado Department of Transportation, *Standard Specifications for Road and Bridge Construction*, dated 2019.

Certain terms utilized in the Specifications referred to in the paragraph above shall be interpreted to have different meanings within the scope of the Contract. A summary of redefinitions follows:

Subsection 101.28 Department shall be replaced with Boulder County Public Works.

Subsection 101.29 Engineer shall be defined as Boulder County Engineer acting directly or through an authorized representative, who is responsible for engineering and administrative supervision of the project.

The terms Project Engineer and Project Manager shall be interchangeable in this contract.

Subsection 101.39 Laboratory shall be defined as the testing laboratory designated by Boulder County Public Works.

Subsection 101.58 Region Transportation Director shall be defined as Boulder County Public Works.

Subsection 101.76 State shall mean Boulder County Public Works (where applicable).

**REVISION OF SECTION 102
PROJECT PLANS AND OTHER DATA**

Section 102 of the Standard Specifications is hereby revised for this project as follows:

Subsection 102.05 shall include the following:

After contract award, the successful bidder may obtain from Boulder County at no cost an electronic copy containing the plans, special provisions and the Contract.

Subcontractors shall obtain copies of these documents from the successful bidder.

Contractor shall have at all times on the project site an original signed set of plans and specifications.

**REVISION OF SECTION 104
SCOPE OF WORK**

Section 104 of the Standard Specification is hereby revised as follows:

Subsection 104.02, Suspensions of work shall include the following:

The Contractor is required to complete the Contract with sustained work efforts once he begins the project.

No additional payment will be made for remobilization if the project is suspended.

This project is located outside the mapped 100-year floodplain.

Subsection 104.04 shall include the following:

The roadway is to remain open to through traffic with a minimum of one lane (minimum **11 feet wide**) of supervised traffic during working hours and two-directional traffic during non-working hours, except during approved road closures and detour periods.

The contractor shall be responsible for maintaining roadway during non-working hours throughout the duration of the project, including any maintenance items that insure the safe flow of traffic through the construction site.

During working hours the Contractor will not leave any vertical drop-off adjacent to the traveled way unless protected by the proper traffic control devices. The Contractor will not leave any vertical drop-off in shoulder widening areas or any other area adjacent to the traveled way in the excavated stage of construction during non-working hours.

Snow removal within the work zone will be the responsibility of the Contractor, unless the project is suspended during the winter months.

Bicycles shall be allowed to merge with traffic.

**REVISION TO SECTION 105
CONTROL OF WORK**

Section 105 of the Standard Specifications is revised for this project as follows:

Subsection 105.11, Cooperation with Utilities, delete the first paragraph and include the following:

Should the work described in these plans and specifications require coordination between the Contractor and the utility companies it shall be the responsibility of the contractor to notify the respective utility company and schedule the necessary adjustments and locations of utilities. The work shall be completed by the respective utility company's forces at no charge to the project. The contractor shall cooperate with the utility company in accordance with subsection 105.06 in conducting their respective operations as necessary.

The Contractor shall keep the utility company(s) advised of any work being done to their facility, such that the utility company(s) can coordinate their inspections for final acceptance of the work by the Engineer. All valve box and manhole adjustments shall be performed in accordance with Section 210 and any subsequent revisions of Section 210.

The Contractor shall comply with Article 1.5 of Title 9, CRS ("Excavation Requirements") when excavating or grading is planned in the area of underground utility facilities. The Contractor shall notify **all** affected utilities at least three (3) business days, not including initial day of contact, prior to commencing such operations. Contact the Utility Notification Center of Colorado (UNCC) to have locations of UNCC registered lines marked by member companies. Calls originating within the Denver metro area use phone no. 811; calls originating outside the Denver area use 1-800-922-1987. All other underground facilities shall be located by contacting the respective company. Utility service laterals shall also be located prior to beginning work.

The Contractor shall perform potholing, as required, to locate utilities that may conflict with the construction. As stated in Section 105 of the Specifications, the Contractor shall consider in the bid proposal, all of the permanent utility facilities in their present positions as shown in the Contract and as revealed by site investigation. Additional compensation will not be allowed for foreseeable coordination from the utility facilities or the adjustment operations as indicated in the plans.

Utility companies, entities, or their agents that have utilities which may need to be adjusted by the Contractor, may require their inspectors to approve and accept the work being accomplished. If a utility company approaches the Contractor, the Contractor shall notify the respective utility that they should coordinate their inspections with the Engineer. Any problems that arise are to be resolved through the Engineer. The owners and contact persons for the utilities are not listed but shall be the Contractor's responsibility to determine.

The Contractor shall be responsible for protecting utilities during construction.

All costs incidental to the foregoing requirements, including potholing of utilities to determine location and depth will not be paid for separately but shall be included in the work.

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

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

Section 107.07 shall include the following:

The Contractor is to notify residents and businesses within the work area, one week (7 days) in advance, concerning the hours and dates of the work and anticipated impacts. The Contractor will post no parking signs, with appropriate dates of the work, within the work zone, beginning one week in advance for the duration of the paving operations in this area. The Contractor will be responsible for insuring that there are no parked cars within the work during the specified hours.

Access to residences and businesses shall be maintained at all times unless arrangements are made with the property owner and a copy of the written agreement between the property owner and the Contractor is provided to the Project Engineer.

The Contractor shall provide the following public information services on an ongoing basis throughout the duration of the project:

The Contractor, at the preconstruction meeting, shall designate a project contact person. This individual shall be primarily responsible for maintaining communications with the Engineer; provide information on a weekly basis, or interval as determined by the Engineer, to private individuals, adjoining residents, local organizations interested in the project and the affected agencies. The below listed agencies shall be coordinated with on an ongoing basis and coordination shall be included in the cost of the work.

1. Boulder County Public Works – Daniel DeLange – 303-413-7039
Andrew Barth (PIO) – 720-636-3220
2. Boulder County Sheriff Office - Boulder County Communication Center - 303-441-4444
3. Lake Valley/ North Rim HOA:
4. Century Link: Chris Janoski 303-552-8545/ Dan Lewis 303-441-7233
5. Left Hand Water District: Steve Buckbee 303-530-4200
6. Xcel Energy: Coral Breidenach 303-245-2281/ Keisha Hirsch 303-245-2280
7. Fairways Metro District: Nick Moncada 303-987-0835

8. Comcast: Kevin Young 720-281-8666

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

Subsection 107.12 shall include the following:

- A. The Contractor shall protect existing vegetation in this area, except for those trees and shrubs, which must be trimmed or removed, with the approval of the Engineer, to accommodate construction of the project.
- B. The Contractor shall perform all the work in such a manner that the least environmental damage will result. All questionable areas or items shall be brought to the attention of the Engineer for approval prior to removal or any damaging activity. Trees and/or shrubs that are damaged during construction, without designation on the plans or written instruction for removal by the Engineer shall be replaced at the expense of the Contractor.
- C. The following measures shall be taken to protect existing trees adjacent to the project as identified on the plans:
 - 1. Fencing material shall encircle any trees whose outer drip line edge is within 20 feet of any construction activities. The fencing material shall be bright, contrasting color, durable, and a minimum of 4 feet in height. Posts used shall be comparable to metal T-post or heavier weight, and placed to a depth of no less than 2 feet below ground level. Fencing material shall be placed at the drip line or 15 feet from tree trunk, whichever is greater, and maintained in an upright position throughout the duration of construction activities. T-posts shall have caps for protection on the top.
 - 2. No material shall be placed or piled within the drip line of existing trees. No heavy objects, such as wood pallets, metal railings, etc., shall lean against or come into contact with tree trunks.
 - 3. When root cutting is unavoidable, a clean sharp cut shall be made to avoid shredding or smashing. Exposed roots shall be covered immediately to prevent desiccation. Where roots will be cut in a straight line, such as behind a curb or along a sidewalk, a saw such as a concrete saw with a sharp blade that penetrates 1 foot shall be used on top of the ground prior to excavating so that the roots are not torn or smashed during excavation.
 - 4. Sidewalk and pavement should be contoured sufficiently to avoid cutting surface tree roots. Whenever possible, tree roots should be bridged or floated over with walks.
- D. Measurement and Payment: All work necessary as defined in the specifications to protect the existing trees shall not be paid for separately, but shall be included in the cost of the work.

Subsection 107.17, Contractor's Responsibility for Work, add the following:

The Contractor shall be responsible for any damage to their work arising from running water from either a natural source or from landscape watering at no additional cost to the contract.

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

Subsection 107.17, Contractor's Responsibility for Work, add the following:

The contractor shall be responsible for locating any irrigation system within or adjacent to the work. The contractor shall identify and replace irrigation equipment that is damaged by the contractor or their subcontractors to the satisfaction of the Engineer at no additional cost to the County.

Cars left in work zone shall be towed. Cars will be towed at owner's expense. Contractor shall coordinate with towing company.

Subsection 107.24 shall include the following:

Equipment Emissions. Boulder County projects shall meet or exceed current Colorado Air Quality standards. The project work shall be performed using practices that minimize air quality detriments during construction. All the standards below shall be followed to improve air quality related to this project:

- (a) Emissions standards:
 - (1) Optimally, electric or hybrid powered equipment or vehicles will be used on all projects.
 - (2) Equipment engines shall be compliant with the most recent Environmental Protection Agency (EPA) requirements.
 - (3) Contractors are required to maintain a minimum emissions level for diesel fueled equipment at a Tier 3 level.
 - (4) Contractors shall provide certification of compliance with diesel emissions standards. Failure to do so will result in immediate stoppage of work and is a non-excusable delay per subsection 108.08(c)2.
 - (5) All diesel vehicles, construction equipment, and generators on site shall be fueled with ultra-low sulfur diesel fuel (ULSD) or a biodiesel (B20) blend approved by the original engine manufacturer with sulfur content of 15 ppm or less.
- (b) Proximity. Any project within 1000 linear feet of a residence or regular gathering location of multiple people (i.e., schools, parks, places of worship, commercial buildings, etc.) is required to have either electric, hybrid or Tier 4 diesel powered equipment or vehicles.
- (c) Exemption. Emergency equipment is exempt from this specification. All reasonable effort will be made to replace equipment placed in service at the beginning of the emergency work with equipment as specified above as soon as possible.
- (d) Definition. Vehicle, for the purposes of this specification, is defined as any diesel-powered company owned car or truck. It does not apply to personal vehicles.
- (e) Cost. Unless shown otherwise in the bid tabulation for this project, costs to achieve this specification will be included in the overall cost of the project.

**REVISION OF SECTION 108
PROSECUTION AND PROGRESS**

Section 108 of the Standard Specifications is hereby revised for this project as follows:

Subsection 108.03 shall include the following:

The Contractor shall present a preliminary bar chart to the Engineer at or prior to the preconstruction conference. This preliminary bar chart shall show the major features of the project by roadway for the entire project time frame.

Salient features to be shown on the Contractor's Progress Schedule are:

- (1) Mobilization/ Construction Surveying / Signing
- (2) Drainage/ Erosion Control
- (3) Full Depth Reclamation
- (4) Reconditioning
- (5) HMA Paving
- (6) Site Restoration and Cleaning

Meetings will be required to review progress and plan upcoming activities. The Traffic Control Supervisor and representatives from the Contractor and all active subcontractors shall attend the meetings. Such meetings will be required on a weekly basis at a time to be determined by the Engineer and the Contractor.

The Contractor shall submit at the weekly progress meetings a schedule of planned activities and anticipated inspection, testing, and surveying requirements for the upcoming week. The Contractor shall provide a twenty-four hour notice to the Engineer if the Contractor elects to change a planned activity.

Subsection 108.05 shall include the following:

All work performed by the Contractor or any of his agents shall be accomplished during the established working hours of 8:00 a.m. and 4:30 p.m., Mondays through Fridays. **Work outside these hours may be allowed (or paid if not approved prior) with the approval of the Engineer, based on actual progress made by the contractor to date.** In the event the Contractor receives approval to work additional hours *for their convenience*, the Contractor shall reimburse the County for the cost of providing additional engineering and inspection services. The reimbursement to the County will be at a rate of \$125 per hour for each County employee or \$175 per hour for each consultant required to be on the job site. This cost will be deducted from any money due the Contractor. Cost of the traffic control outside of normal work hours shall be paid by the contractor. Additional flagging hours and material will not be paid beyond normal working hours unless additional working time has been approved by Boulder County

**REVISION TO SECTION 201
CLEARING AND GRUBBING**

Section 201 of the Standard Specifications is hereby revised for this project as follows:

Subsection 201.02 General shall be revised for this project as follows:

The first sentence of the first paragraph shall be revised as follows; The Engineer will designate all trees, plants and other objects to be removed prior to the Construction Pre-bid meeting. No trees or shrubs are currently designated for removal on this project.

The second paragraph shall be deleted and replaced as follows: Clearing and Grubbing shall be at a minimum one (1) foot beyond the edge of existing asphalt' pushed onto road surface and hauled off site or as designated by the project engineer.

The sixth paragraph, second sentence shall be revised as follows; No deleterious material, asphalt or concrete pieces, or other debris shall be buried within the project limits.

The eighth paragraph will be revised as follows; the limits of tree trimming will be any branches encroaching within 2 feet horizontally (or within the right-of-way or easement, whichever is less), and 8 feet vertically of the road surface. All trimming shall be done in accordance with good tree surgery practices and aesthetic tree shaping adjacent to road. Additional locations for tree trimming within the rights-of way may be designated by the Engineer in addition to those indicated on the plans. Tree trimming shall be considered incidental to the work if deemed necessary to complete the project.

Subsection 201.04 Basis of Payment shall be revised for this project to include the following:

Haul and disposal will not be measured or paid for separately but shall be included in the work.

It is the responsibility of the Contractor to visit the site and determine the resources necessary to clear and grub the project limits, therefore no additional compensation will be allowed.

Pay Item:
Clear and Grubbing

Pay Unit:
LS

**REVISION TO SECTION 202
REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

Section 202 of the Standard Specifications is hereby revised for this project as follows:

Subsection 202.01, shall include the following:

This work consists of removal and disposal of all asphalt pavement, concrete driveway and underlying soils, and other materials as shown on the plans. Existing material to be removed, such as, but not limited, to sidewalk, may be different in depth than the item to be installed. Additional material may need to be removed or added to ensure final product is at specified thickness and grade. Removal shall include removal or addition of underlying soil required for the work. All items designated for removal shall be saw cut at an existing control joint or specific location as directed by the Project Engineer.

Subsection 202.02 Construction Requirements shall include the following:

Sawing of asphalt (including full depth, if necessary), curb, gutter and sidewalk, cross pan, driveways or drainage pan for the purpose of minimizing disturbances and patching to existing, shall not be paid for separately but shall be included in the work.

Subsection 202.02, revise paragraph seven to read:

Removed materials become the property of the Contractor, unless designated as salvage to be retained by the County, and must be properly disposed of off-site.

Subsection 202.12 shall include the following;

Payment shall be included in the work as part of item 310 and not paid separately. Removal of underlying materials related to the removal of these structures is included in the work. All other labor, equipment and material items incidental to complete the work, shall be included in the approved unit price of item 310 without additional compensation by Boulder County.

Revision of Section 203
EXCAVATION AND EMBANKMENT

Section 203 of the Standard Specifications is hereby revised for this project as follows:

Subsection 203.05 (b), first paragraph, shall include the following:

Excess material that must be removed from the project shall become the property of the Contractor and disposed of outside the project limits.

The Contractor shall make all arrangements to obtain any required agency permit(s) and written permission from property owners for disposal locations outside the limits of the project, within unincorporated Boulder County.

Disposal of more than 50 cubic yards of unclassified excavation within unincorporated Boulder County may qualify for one of the following Boulder County Community Planning & Permitting review processes:

- (a) Grading Permit,
- (b) Site Plan Review,
- (c) Site Plan Review Waiver, or
- (d) Limited Impact Special Review.

Copies of the permit(s) and written permission shall be furnished to the Engineer before the disposal area is used.

Subsection 203.12 shall include the following:

Payment for Unclassified Excavation and Unclassified Excavation (Complete in Place) shall also include costs associated with obtaining any necessary permits or written permissions and will not be paid separately.

**REVISION OF SECTION 208
EROSION CONTROL**

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

Subsection 208.01 is hereby revised to include the following:

The contractor will be the Permittee of the Colorado Discharge Permit System – Stormwater Construction Permit (CDPS-SCP) during the entire period that it remains open and is also responsible for inactivation of the permit once final stabilization of the construction site has been achieved and accepted by Boulder County. No transfer of ownership or control will be permitted.

It is the responsibility of the contractor to develop a final SWMP (by a person with at a minimum the training required by CDOT for certification as an Erosion Control Supervisor). The development of a SWMP for the project will depend on the Contractor's construction procedures, construction sequencing and phasing, and general approach to the project. The contractor shall supply to Boulder County a copy of SWMP for review and acceptance prior to submitting the permit application to the CDPHE, and shall allow four days for this review. The contractor shall also provide a copy of the permit application submitted to CDPHE, as well as a copy of the permit, once obtained.

The contractor shall proceed with this permit activity as soon as he deems necessary following the Notice of Award. No contract delays or extensions will be granted to the contractor for failure to develop the required SWMP plan and obtain the required state permit in a timeframe necessary to begin the work as specified in the contract.

Once construction has been completed, the Boulder County Project Manager and the contractor will complete a walk-through of the project site. The purpose of which is to determine the areas where BMP's may be removed or maintained. Once 70% of the pre-existing uniform vegetative cover has been reestablished and BMP's removed, the CDPS-SCP shall be closed by the Contractor.

Subsection 208.03 (c) is hereby revised to include the following:

Any loss of time or materials related to erosion shall be the sole responsibility of the Contractor. Any damage to surrounding properties or facilities (either on site or off site) related to erosion caused by construction of this project, will be the sole responsibility of the Contractor.

**REVISION OF SECTION 208
EROSION CONTROL**

Subsection 208.04 is hereby revised to include the following:

(g) *Water Control.* The Contractor is responsible for control of all surface and subsurface water, which may flow across the project site, during normal or storm conditions, throughout the duration of the project as required eliminating or minimizing erosion and sediment. At no time during construction shall the Contractor affect existing surface or subsurface drainage patterns of adjacent property including tailwater on adjacent landowner's properties. Any damage to adjacent property resulting from the Contractor's alteration of surface or subsurface drainage patterns shall be repaired by the Contractor at no additional cost to the Owner.

Subsection 208.12 is hereby modified to include the following:

Erosion Control Supervisor, BMPs and preparation of Stormwater Management Plan, protection from spills including secondary containment, and permit applications shall not be paid for separately but shall be included in other items of work.

Pay Item

Unit

Storm Water Management Plan

Pay

LS

**REVISION OF SECTION 209
DUST PALLIATIVES**

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

Subsection 209.05 shall include:

Application of dust palliative will be required including when work is not in progress, including weekends, holidays, and nighttime. At a minimum, once per hour or as instructed by the County inspector

Delete subsections 209.07 and 209.08.

Dust palliative will not be measured and paid for separately but shall be included in the work.

**REVISION OF SECTION 210
ADJUST VALVES**

Section 210 of the Standard Special Provisions is hereby revised for this project as follows:

Subsection 210.10 shall include:

The manholes and valve boxes will be adjusted according to the respective specifications of the Utility District (noted in **Section 107**). **It is the contractor's responsibility to determine those specifications. No additional compensation will be made for determining those specifications.**

**REVISION OF SECTION 310
FULL DEPTH RECLAMATION OF HOT MIX ASPHALT PAVEMENT**

Section 310 is hereby added to the Standard Specifications as follows:

DESCRIPTION

310.01 This work will be specified as a total reclamation processed depth as shown on the plans (8" or 12"). Existing asphalt thicknesses vary but are average depth of 3". This work consists of cutting of the existing asphalt mat, pulverizing the existing asphalt mat, mixing the pulverized asphalt mat with the existing subbase, existing base course, or combination thereof, to a depth of 8" or 12" (as shown on the plans), grading and compacting the mixed material, in accordance with and at locations as shown in the Plans and Specifications. Removal of any excess material to achieve final subgrade elevation and profile will not be paid for separately but will be included in the bid unit price of the work.

CONSTRUCTION REQUIREMENTS

310.02 The contractor shall develop a written method to maintain the centerline geometry. The plan shall be submitted to the Engineer for approval a minimum of two weeks prior to starting work. The cost of developing and implementing the plan shall not be paid for separately but shall be included in the cost of Full Depth Reclamation of Hot Mix Asphalt Pavement. All costs of survey staking to re-establish the centerline geometry, profile and cross slopes shall not be paid for separately but shall be included in the cost of Full Depth Reclamation of Hot Mix Asphalt Pavement.

Responsibility for potholing to locate and determine depths of utility lines prior to Full Depth Reclamation shall be the responsibility of the contractor.

The existing asphalt mat shall be cut at neat lines at all tie in points by the use of a cutting wheel attached to a blade or by another approved method. The existing asphalt mat shall be pulverized, and mixed with the existing subbase, base course, or combination thereof to a specified depth or as directed by the Engineer, with a self-propelled rotary type mixing machine. The mixing machine shall make as many passes as required to uniformly mix the asphalt, subbase, existing base course, or combination thereof to the required depth. Mixing of the different materials shall create a homogenous mixture. The particle size of the pulverized asphalt mat shall be a minimum of 99 percent passing the 37.5 mm (1-1/2 inch) sieve. When the addition of water is necessary for initial compaction purposes, unless otherwise approved by the Engineer, it shall be added through the mixing machine with the capability to uniformly distribute water through the mixed materials to within 2 percent of the optimum moisture as determined in accordance with AASHTO T-180 Method D.

When proper mixing has been accomplished, the mixture shall then be bladed, shaped, wetted or dried, and rolled to meet a minimum of 95 percent of the maximum dry density determined in accordance with AASHTO T-180 Method D. Excess material generated shall be hauled and stockpiled at a location as designated in the Plans or by the Engineer. If no location is designated, it shall be the responsibility of the contractor to properly dispose of said material. Grading equipment used to establish the final surface elevations shall have automatic controls for transverse slope. The transverse slope controls shall be capable of maintaining the final surface within 0.1 percent of the specified slope. Variations from the subgrade plane shall not be more than 1/4 inch. The work shall be maintained and tested for conformance to these requirements immediately prior to placing additional pavement layers.

**REVISION OF SECTION 310
FULL DEPTH RECLAMATION OF HOT MIX ASPHALT PAVEMENT**

Compaction will be measured for the top 8-inch lift of reclaimed materials, and if appropriate for any lift below the top 8-inch lift. Density testing and materials acceptance will apply to each lift of 8 inches or less that is reclaimed and placed on the project. Acceptance Testing will be based on a random schedule of 1/2000 square yards of reclaimed material up to 8 inches and 1/2000 square yards of reclaimed material 8 inches and greater in depth. The compacted material shall be proof-rolled in accordance with Section 209.09. Any areas of deformation shall be removed, treated and re-compacted prior to placement of Hot Mix Asphalt Pavement.

The maximum length of exposed processed asphalt pavement shall be no greater than 0.5 miles unless approved by the Engineer. The maximum time a portion of the roadway will be unpaved is 7 working days unless approved by the Engineer. The exposed longitudinal joint between the existing asphalt mat and the processed mat shall not remain in place for more than one day unless approved by the Engineer. Joint construction and maintenance shall conform to subsection 401.16.

The contractor shall provide emergency access to all affected residences during construction. The contractor shall rough grade and compact roads and provide suitable material to allow passenger car access to all driveways at the end of each day. The cost of placing material to provide ramps to each affected driveway and to provide required emergency access shall not be paid for separately but will be included in the pay item for Full Depth Reclamation of Hot Mix Asphalt Pavement .

METHOD OF MEASUREMENT

310.03 Full Depth Reclamation of Hot Mix Asphalt Pavement will be measured by the square yard of roadway treated, completed and accepted.

BASIS OF PAYMENT

310.04 The accepted quantities of Full Depth Reclamation of Hot Mix Asphalt Pavement will be paid for at the contract unit price per square yard for Full Depth Reclamation of Hot Mix Asphalt Pavement to the depth specified above.

Pay Item	Pay Unit
Full Depth Reclamation of Hot Mix Asphalt Pavement (0-8")	Square Yard
Full Depth Reclamation of Hot Mix Asphalt Pavement (8"-12")	Square Yard

Payment for Full Depth Reclamation of Hot Mix Asphalt Pavement will be full compensation for all work necessary to complete the item including cutting of the existing asphalt mat, pulverizing the existing asphalt mat, mixing the pulverized asphalt mat into existing subgrade or base course, wetting and compacting the mixed pulverized asphalt mat and subgrade and/or base course, blading, shaping, haul and disposal of excess material, and water.

**REVISION OF SECTION 403
HOT MIX ASPHALT**

Section 403 of the Standard Specifications is hereby revised for this project as follows:

Subsection 403.02 shall include the following:

The design mix for hot mix asphalt shall conform to the following:

Table 403-1

Property	Test Method	Value For Grading			
			S(50)	SX (50)	Patching
Air Voids, percent at: N (design)	CPL 5115		3.5 – 4.5	3.5-4.5	3.5 – 4.5
Lab Compaction (Revolutions): N (design)	CPL 5115		50	50	50
Stability, minimum	CPL 5106		28	28	28
Aggregate Retained on the 4.75 mm (No. 4) Sieve with at least 2 Mechanically Induced fractured faces, % minimum	CP 45		60	60	60
Accelerated Moisture Sus- ceptibility Tensile Strength Ratio (Lottman), minimum	CPL 5109 Method B		80	80	80
Minimum Dry Split Tensile Strength, psi	CPL 5109 Method B		30	30	30
Grade of Asphalt Cement, Top Layer				PG 64-22	
Grade of Asphalt Cement, Layers below Top			PG 64-22		PG 64-22
Voids in the Mineral Aggregate (VMA) % minimum	CP 48		See Table 403-2	See Table 403-2	See Table 403-2
Voids Filled with Asphalt (VFA), %	AI MS-2		65-80	65-80	65-80
Dust to Asphalt Ratio Fine Gradation Coarse Gradation	CP 50		0.6 – 1.2 0.8 – 1.6	0.6 – 1.2 0.8 – 1.6	0.6 – 1.2 0.8 – 1.6
<p>Note: AI MS-2 = Asphalt Institute Manual Series 2</p> <p>Note: The current version of CPL 5115 is available from the Region Materials Engineer.</p> <p>Note: Mixes with gradations having less than 40% passing the 4.75 mm (No. 4) sieve shall be approached with caution because of constructability problems.</p> <p>Note: Gradations for mixes with a nominal maximum aggregate size of one-inch or larger are considered a coarse gradation if they pass below the maximum density line at the #4 screen.</p> <p>Gradations for mixes with a nominal maximum aggregate size of ¾ inch or smaller are considered a coarse gradation if they pass below the maximum density line at the #8 screen.</p>					

**REVISION OF SECTION 403
HOT MIX ASPHALT**

All mix designs shall be run with a gyratory compaction angle of 1.25 degrees and properties must satisfy Table 403-1. Form 43 will establish construction targets for Asphalt Cement and all mix properties at Air Voids up to 1.0 percent below the mix design optimum.

Table 403-2

Minimum Voids in the Mineral Aggregate (VMA)			
Nominal Maximum Size*, mm (inches)	***Design Air Voids **		
	3.5%	4.0%	4.5%
37.5 (1½)	11.6	11.7	11.8
25.0 (1)	12.6	12.7	12.8
19.0 (¾)	13.6	13.7	13.8
12.5 (½)	14.6	14.7	14.8
9.5 (¾)	15.6	15.7	15.8
<p>* The Nominal Maximum Size is defined as one sieve larger than the first sieve to retain more than 10%.</p> <p>** Interpolate specified VMA values for design air voids between those listed.</p> <p>*** Extrapolate specified VMA values for production air voids beyond those listed.</p>			

The Contractor shall prepare a quality control plan outlining the steps taken to minimize segregation of HMA. This plan shall be submitted to the Engineer and approved prior to beginning the paving operations. When the Engineer determines that segregation is unacceptable, the paving shall stop and the cause of segregation shall be corrected before paving operations will be allowed to resume.

The hot mix asphalt will include reclaimed asphalt pavement (RAP) up to the percentage specified in Section 401-Binder Replacement.

Hot mix asphalt for patching shall conform to the gradation requirements for Hot Mix Asphalt (Grading S)(50)(PG 64-22).

**REVISION OF SECTION 403
HOT MIX ASPHALT**

A minimum of 1 percent hydrated lime by weight of the combined aggregate shall be added to the aggregate for all hot mix asphalt.

Acceptance samples shall be taken according to CP-41

Subsection 403.03 shall include the following:

A material transfer device will be required for the placement of asphalt on the top lift of paving.

Hot bituminous pavement (patching) shall include, neat line cutting around the perimeter of the patch area, the removal and disposal of existing pavement and underlying material 4 inches in depth to achieve the desired patch section, mechanical compaction of subgrade, placement of emulsified asphalt (CSS-1H) tack coat, and the haul, placement, and compaction of 4 inches of full depth Hot Mix Asphalt.

Full depth patching shall occur after the milling process.

Prior to placing tack coat and beginning overlay work, the surface to be tack coated shall be swept to remove accumulations of loose gravel, vegetation and debris.

Delete **Subsection 403.05** and replace with the following:

403.05 The accepted quantities of hot mix asphalt will be paid for in accordance with **subsection 401.22**, at the contract unit price per ton for the bituminous mixture.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Hot Mix Asphalt (Grading SX)(50)(PG 64-22)(Complete In Place)	Ton
Hot Mix Asphalt (Grading S)(50)(PG 64-22)(Complete In Place)	Ton
Hot Mix Asphalt Patching (Grading S)(50)(PG 64-22)(Complete In Place)	Ton

Aggregate, asphalt recycling agent, additives, hydrated lime, and all other work necessary to complete each hot mix asphalt item will not be paid for separately, but shall be included in the unit price bid. When the pay item includes the PG binder grade, the asphalt cement will not be measured and paid for separately, but shall be included in the work.

Tack coat shall be applied at the specified rate in the General Notes including all vertical surfaces and will not be measured and paid for separately, but shall be included in the work.

Excavation, preparation, and tack coat of areas to be patched will not be measured and paid for separately, but shall be included in the work.

**REVISION OF SECTION 407
PRIME COAT, TACK COAT AND REJUVENATING AGENT**

Section 407 is hereby revised as follows:

Payment for application of tack coat (emulsified asphalt CSS-1H) will not be measured and paid for separately, but shall be included in the work.

The cost of street sweeping and other means of removing unwanted material to provide a clean surface is the contractor's responsibility and shall not be measured and paid for separately, but shall be included in other items of work.

**REVISION OF SECTION 625
CONSTRUCTION SURVEYING**

Section 625 of the Standard Specifications is hereby revised for this project as follows:

Subsection 625.04 shall include the following:

The Contractor shall provide all construction surveying and staking necessary for the construction of the project for control of HCL.

Subsection 625.12 shall include the following:

Pay Item

Construction surveying

Pay Unit

LS

REVISION OF SECTION 626 MOBILIZATION

Section 626 of the Standard Specifications is hereby revised as follows:

Subsection 626.01 shall be revised to include the following:

The Boulder County Public Works Department Public Information Officer (PIO) will coordinate public information regarding the project and provide timely updates regarding construction to the public through a variety of established channels

The contractor shall designate a representative with whom the PIO can confer with as needed to ensure that all pertinent construction-related information is conveyed to the public. The contractor-designated representative may maintain a direct line of contact with the PIO to assist with answering questions from the public. The PIO will also conduct any media related activities that may arise over the course of the project. All media inquiries will be directed to the PIO for follow up. The contractor-designated representative may be called upon to assist with media related requests for information and photo or video content.

It shall be the contractor's responsibility to maintain adequate signage throughout the construction site. The signs shall conform to the requirements of Section 630 and shall be erected at least one week prior to the beginning of construction. These signs shall be updated if the project schedule changes, at no cost to the project.

The contractor should confer with the PIO and the Engineer on any messages that will appear on static or variable messaging boards. It will also be the responsibility of the contractor to maintain timely and frequent communications with construction zone area residents/property owners who will be directly impacted by daily construction activities. The contractor can do this as they so choose (door hangers, site visits, etc.) but they are to inform any resident at least 48-hours prior to work being conducted in front of a property so that they understand the impacts of the work on their daily activities and how they can access their home while work is taking place in their area. The contractor is also responsible for informing impacted property owners and residents of any utility service interruptions (i.e., water, power, cable, phone, internet).

Access for emergency vehicles must always be provided. Coordination with emergency service providers is the responsibility of the contractor. The contractor must inform local emergency service providers (Sheriff, Fire Protection District, ambulance services) of any work that may impact their ability to respond to an emergency in the area of the construction project prior to completing the work.

The Contractor must also coordinate with the United States Postal Service (USPS) and trash haulers if construction-related activities will interfere with their ability to complete their duties.

Impacts to local school bus routes must also be coordinated by the contractor and the affected school district. The same can be said for impacts to Regional Transportation District Route (RTD) that are impacted by construction.

The Contractor shall submit weekly lane closure reports to the Engineer and the PIO.

Public Information Services Contacts:

Project Manager

Name:

Phone:

Email:

Boulder County Public Works Public Information Officer

Andrew Barth

Phone: 303-441-1032

Fax: 303-441-4594

Email: abarth@bouldercounty.org

Subsection 626.02 is revised for this project as follows:

The Contractor is responsible for obtaining, coordinating and maintaining acceptable parking and staging areas for the duration of the construction activities. This is considered incidental to the work and payment is included in the Mobilization work item.

**REVISION OF SECTION 630
CONSTRUCTION ZONE TRAFFIC CONTROL**

The key elements of the Contractor's Method of Handling Traffic (MHT) are outlined in Subsection 630.10(a).

The components of the Traffic Control Plan (TCP) for this project are included in the following:

- 1) Subsection 104.04 and Section 630 of the specifications,
- 2) Standard Plan S-630-1, Traffic Controls for Highway Construction and Standard Plan S-630-2,

Special Traffic Control Plan requirements for this project are as follows:

During the construction of this project, all traffic shall use existing roads.

The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time.

The Contractor shall submit traffic control plans to the County and other impacted jurisdictions for approval prior to any lane closures and restrictions. The traffic control plans shall show the Contractor's method of handling traffic along with the locations of traffic control devices and the requirements for flagging.

Access to local residents and properties will be maintained at all times.

All traffic control devices including signs and traffic channelizing devices will not be measured or paid for separately but shall be measured and paid for on a lump sum basis as Construction Zone Traffic Control for each site within the project. Any additional signs or channelizing devices required by the MUTCD or the Engineer will be considered incidental to this item.

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

Subsection 630.09 shall be revised for this project to include the following:

Construction zone traffic control shall be in conformance with the latest edition of Manual of Uniform Traffic Control Devices (MUTCD).

**REVISION OF SECTION 630
CONSTRUCTION ZONE TRAFFIC CONTROL**

The following portable construction signs, barrels and cones at a minimum will be required for the project:

LEGEND	TYPE	SIZE	#
ROAD WORK NEXT xx MILES	G20-1	60"X36"	4
ROAD WORK AHEAD	W20-1	48"X48"	6
FLAGGER AHEAD	W20-7A	36"X36"	10
XYZ CONSTRUCTION THANKS YOU 555-555-5555	G20-10	30"X30"	2
UNEVEN PAVEMENT	W21-14R	36"X36"	8
BUMP	W8-1	36"X36"	15
SHOULDER DROP-OFF	W8-9a	36"X36"	4
BARRELS			50
CONES		36"	500
VMBs			8

Additional signs may be required by the MUTCD or the Engineer at no additional cost.

The Contractor and the subcontractors shall equip their construction vehicles with flashing amber lights or as directed by the Engineer.

Employee vehicle parking is prohibited where it conflicts with safety, access or flow of traffic. The Contractor is responsible for obtaining, coordinating and maintaining acceptable parking and staging areas for the duration of the construction activities. This is considered incidental to the work and payment is included in the Mobilization work item.

Subsection 630.10 shall be revised to include the following:

The Contractor shall submit to the County Traffic Engineer a method of handling vehicular traffic for approval at least 10 Days prior to each construction phase, prior to changes in traffic control, and prior to any construction.

**REVISION OF SECTION 630
CONSTRUCTION ZONE TRAFFIC CONTROL**

A Variable Message Sign shall be placed at the entrance to the subdivision. The VMS boards shall be posted 7 days in advance of milling/Full-depth reclamation operations and throughout striping activities. The signs shall read:

Screen 1	P P	A R	V O	I J	N E	G C		
Screen 2	D D	A A	T T	E E		-		
Screen 3	E D	X E	P L	E A	C Y	T S		

The contractor shall also install project information signs **at the entrance to the subdivision until work is completed**, worded as follows:

Boulder County Resurfacing Project
 FUNDED BY: BOULDER COUNTY
 DESIGN: BOULDER COUNTY
 CONTRACTOR: Name
 BOULDER COUNTY (LOGO)
 CONTRACTOR (LOGO)

Signs shall be 72”(H) x 48”(V), Black on white, Aluminum sheeting.

The information and funding signs shall be posted 7 days in advance of any construction activity.

The components of the TCP for this project are included in the following:

1. Subsection 104.04, and Section 630 of the Standard Specifications.
2. Schedule of Construction Traffic Control Devices.
3. Standard Plan S-630-1.
4. Manual on Uniform Traffic Control Devices (MUTCD), current edition

**REVISION OF SECTION 630
CONSTRUCTION ZONE TRAFFIC CONTROL**

Special Traffic Control Plan requirements for this project are as follows:

The Contractor will develop an access control plan in coordination with adjacent property owners, and submit it in conjunction with the traffic control plan to the Engineer for approval prior to the start of any work.

The Contractor shall not place the tack coat on any surface to be overlaid where traffic will be forced to travel upon the fresh oil.

The Contractor and the subcontractors shall equip their construction vehicles with flashing amber lights or as directed by the Engineer.

During the construction of this project, traffic shall use the present traveled roadway. Traffic shall include motorized vehicles and bicycles.

The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time, unless directed otherwise.

VMB's as shown in the traffic control plan with pertinent information shall be placed 7 days in advance of any approved road closure for the duration of the closure.

During nonworking hours, the roadway shall be restored to safe travel conditions for the free flow of traffic. Any maintenance required to restore the roadway to this condition, including cleaning of the roadway, shall be done prior to opening the areas to traffic or completing the work for the day. The allowable drop-off from edge of asphalt shall not exceed two inches (2"), the Contractor shall provide a temporary slope transition no steeper than 3 horizontal: 1 vertical prior to restoring free flow traffic conditions.

All costs incidental to the foregoing requirements shall be included in the bid item for Construction Zone Traffic Control, L.S. for each roadway within the Contract.

Employee vehicle parking is prohibited where it conflicts with safety, access or flow of traffic.

The Contractor shall submit to the County Traffic Engineer a method of handling vehicular traffic for approval at least 10 Days prior to each construction phase, prior to changes in traffic control, and prior to any construction.

The key elements of the Contractor's method of handling traffic (MHT) are outlined in subsection 630.10.

Subsection 630.10 shall include the following:

The assigned Traffic Control Supervisor and Project Superintendent shall remain onsite at each location at all times during construction activity and shall have completed a CDOT-approved two-day Traffic Control Supervisor training as offered by the CCA. The one-day ATSSA Traffic Control Technician (TCT) training along with the two-day ATSSA Traffic Control Supervisor.

**REVISION OF SECTION 630
CONSTRUCTION ZONE TRAFFIC CONTROL**

Subsection 630.13 shall be revised for this project to include the following:

All flagging personnel used on the project shall be certified for traffic control operations.

Subsection 630.14 shall be revised for this project to include the following:

The first three paragraphs shall be deleted and replaced with the following;

All traffic control devices including signs and traffic channelizing devices will not be measured or paid for separately but shall be measured and paid for on a lump sum basis as Construction Zone Traffic Control for each site within the project. Any additional signs or channelizing devices required by the MUTCD or the Engineer will be considered incidental to this item.

Subsection 630.15 shall include the following:

All labor, equipment, materials, and incidentals required for pedestrian, bicycle and vehicle traffic control and maintenance, including construction signing, channelizing devices, barricades, towing etc., where there is not a specific pay item shall be incidental to the project.

Payment shall be full compensation for furnishing, erecting, cleaning, maintaining, moving, removing, and disposing of construction traffic control devices necessary to complete the work. All work shall be done in accordance with the applicable and current Manual on Uniform Traffic Control Devices (MUTCD) and CDOT Standards.

The Contractor shall be responsible for preparing a Traffic Control Plan (TCP) and Method of Handling Traffic (MHT). No separate payment will be made for the TCP and MHT Plan and shall be included in the work.

Payment will be made individually for each roadway under:

<u>PAY ITEM</u>	<u>PAY UNIT</u>
Construction Zone Traffic Control	Lump Sum (L.S.)
FLAGGING	HOUR
TRAFFIC CONTROL INSPECTION	DAY
CONSTRUCTION ZONE TRAFFIC CONTROL	LS
TRAFFIC CONTROL MANAGEMENT	DAY
PORTABLE MESSAGE SIGN PANEL	EA.
CONSTRUCTION TRAFFIC SIGN (SPECIAL)(PROJECT INFO.)	EA.
CONSTRUCTION TRAFFIC SIGN (SPECIAL)(FUNDING INFO.)	EA.

FORCE ACCOUNT ITEMS

DESCRIPTION

This special provision contains the Department's estimate for force account items included in the Contract. The estimated amounts marked with an asterisk will be added to the total bid to determine the amount of the performance and payment bonds. Force Account work shall be performed as directed by the Engineer.

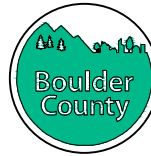
BASIS OF PAYMENT

Payment will be made in accordance with subsection 109.04. Payment will constitute full compensation for all work necessary to complete the item.

Force account work valued at \$5,000 or less, that must be performed by a licensed journeyman in order to comply with federal, state, or local codes, may be paid for after receipt of an itemized statement endorsed by the Contractor.

<u>Force Account Item</u>	<u>Estimated Quantity</u>	<u>Amount</u>
F/A Minor Contract Revisions	F.A.	\$ 25,000

BOULDER COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION



LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING PROJECT BOULDER COUNTY PROJECT - RS-00-021

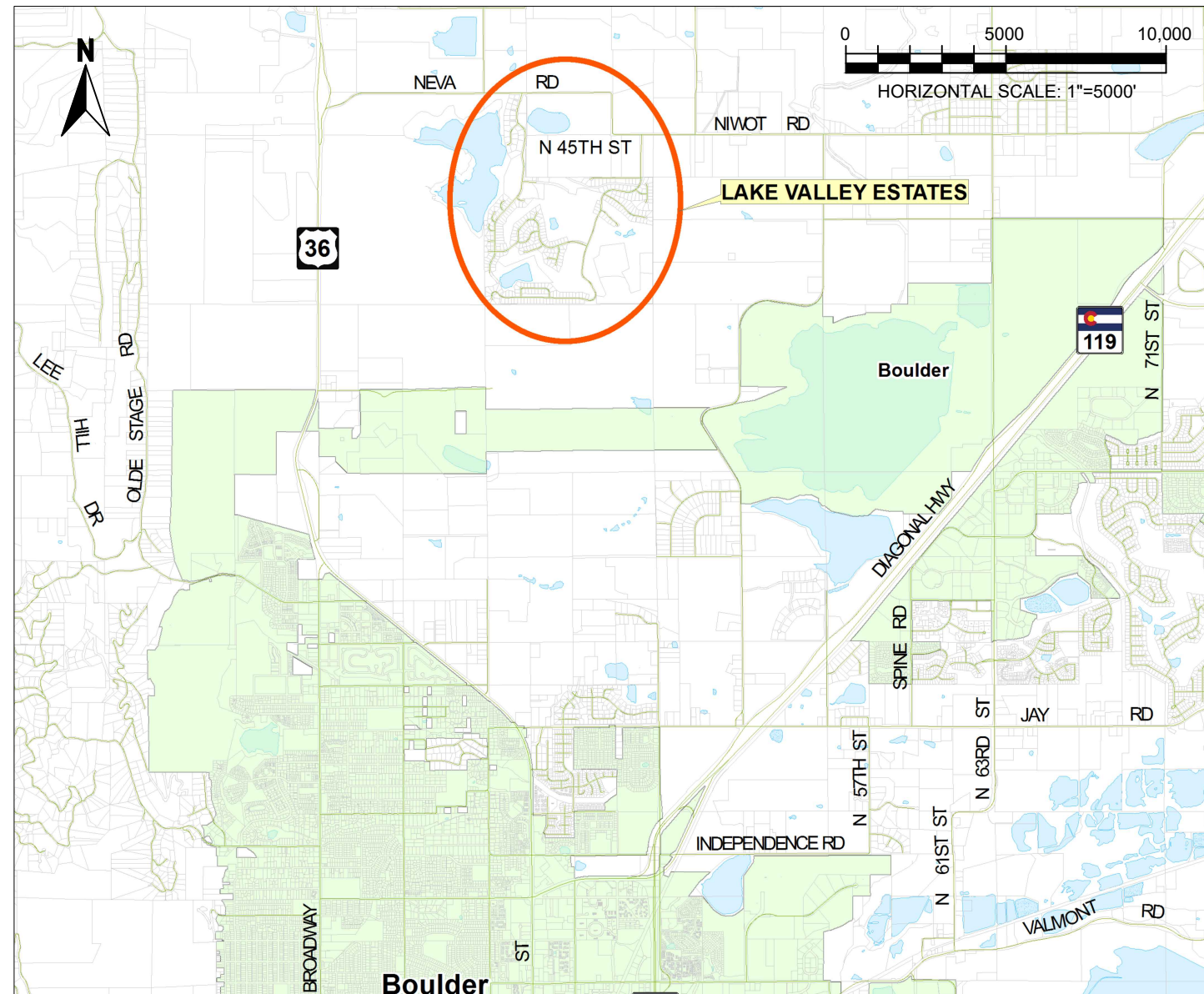
PROJECT SCOPE OF WORK:

THIS PROJECT CONSISTS OF FULL DEPTH RECLAMATION AND OVERLAY PAVING OF THE EXISTING COMMUNITY USE ROADS LOCATED IN THE LAKE VALLEY ESTATES REPLAT, LAKE VALLEY ESTATES REPLAT 3, NORTH RIM, NORTH RIM 2, AND FAIRWAYS LIVING SUBDIVISIONS ALL OF WHICH ARE LOCATED WITHIN UNINCORPORATED BOULDER COUNTY, COLORADO.

FAIRWAYS DRIVE, NIBLICK DRIVE AND GOLF CLUB DRIVE WILL BE RESURFACED WITH HOT MIX ASPHALT (HMA), DESIGNED FOR A 20 YEAR SERVICE LIFE.

SUPPLEMENTARY WORK FOR THE SITE INCLUDES: STORMWATER MANAGEMENT, CONCRETE SIDEWALK, CROSS PANS, TRAFFIC CONTROL, SURVEYING, STRIPING AND SHOULDERING OF THE NEW PAVEMENT.

LAKE VALLEY ESTATES/NORTH RIM		
ROAD	LENGTH	PROJECT LIMITS
FAIRWAYS DR.	5,420 L.F.	NIWOT RD. TO 50' PAST NIBLICK DR.
NIBLICK DR.	4,073 L.F.	FAIRWAYS DR. TO GOLF CLUB DR.
GOLF CLUB DR.	4,614 L.F.	NIWOT RD. TO 50' PAST NIBLICK DR.
TOTAL	14,107 L.F.	



Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	CDOT STANDARD DETAILS
3	GENERAL NOTES (1)
4	GENERAL NOTES (2)
5	GENERAL NOTES (3)
6	LAKE VALLEY-PAVEMENT WIDTHS
7	OVERLAY AND FDR PAVING LOCATIONS
8	LAKE VALLEY-QUANTITIES
9	FAIRWAYS DRIVE-PLAN VIEW (1)
10	FAIRWAYS DRIVE-PLAN VIEW (2)
11	NIBLICK DRIVE-PLAN VIEW (1)
12	NIBLICK DRIVE-PLAN VIEW (2)
13	NIBLICK DRIVE-PLAN VIEW (3)
14	GOLF CLUB DRIVE-PLAN VIEW (1)
15	GOLF CLUB DRIVE-PLAN VIEW (2)
16	GOLF CLUB DRIVE-PLAN VIEW (3)
17	GOLF CLUB DRIVE-GUARDRAIL DETAIL
18	GOLF CLUB DRIVE - SIDEWALK ADDITION
19	TYPICAL SECTIONS-FAIRWAYS DR (1)
20	TYPICAL SECTIONS-FAIRWAYS DR (2)
21	TYPICAL SECTIONS-NIBLICK DRIVE (1)
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23	TYPICAL SECTIONS-GOLF CLUB DRIVE (1)
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25	GOLF CLUB DR-SECTION A-A'
26	LAKE VALLEY-DETAILS (1)
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28	SWMP-GREATER THAN 1 ACRE IMPACT (1)
29	SWMP-GREATER THAN 1 ACRE IMPACT (2)
30	SWMP-GREATER THAN 1 ACRE IMPACT (3)
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35	NIBLICK DR - SWMP (2)
36	NIBLICK DR - SWMP (3)
37	GOLF CLUB DR- SWMP (1)
38	GOLF CLUB DR- SWMP (2)

APPROVED FOR CONSTRUCTION:

MICHAEL A. THOMAS, P.E. DATE:
COUNTY ENGINEER

BID-SET	CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	NO.	DATE	REVISION DESCRIPTION:	BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION	DESIGNED: DD	CAD/CSD: RL	CHECKED: DD	DATE: 11/30/2020	LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING	
						COVER SHEET		PROJECT NO: RS-00-021	SHEET NO: 1		

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COLORADO
DEPARTMENT OF TRANSPORTATION

M&S STANDARDS PLANS LIST

July 31, 2019

Revised on September 30, 2020

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

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GENERAL NOTES

- G1. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019 AND THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD PLANS M&S STANDARDS, BOULDER COUNTY MULTIMODAL TRANSPORTATION STANDARDS, APPLICABLE STATE AND FEDERAL REGULATIONS, PROJECT SPECIAL PROVISIONS AND PROJECT PLANS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS, SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE MOST RESTRICTIVE STANDARD SHALL APPLY. ALL REFERENCE TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- G2. LOCATION OF STAGING AREAS, EQUIPMENT AND MATERIAL STORAGE ARE THE CONTRACTOR'S RESPONSIBILITY, AND MUST BE COORDINATED WITH THE PROPERTY OWNER.
- G3. CONTRACTOR SHALL PROTECT ALL SURVEY AND RIGHT-OF-WAY MONUMENTATION DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE RESET BY THE CONTRACTOR AT HIS EXPENSE, IN ACCORDANCE WITH CDOT SPECIFICATIONS, SECTION 629, SURVEY MONUMENTATION.
- G4. CONSTRUCTION SURVEYING INCLUDES ALL FIELD SURVEY STAKING AS REQUIRED FOR CONSTRUCTION OF THE PROJECT, INCLUDING LAYOUT FOR STRIPING AND PAVING MARKINGS.
- G5. CONTRACTOR SHALL PROTECT EXISTING VEGETATION NOT DESIGNATED FOR REMOVAL, INSIDE AND OUTSIDE THE PROJECT AREA. LOCATE, MARK, AND PROTECT VALVES AND CONTROL BOXES ADJACENT TO CONSTRUCTION ACTIVITIES. DAMAGED VEGETATION UNDESIGNATED FOR REMOVAL, SHALL BE REPLACED WITH SIMILAR ITEMS AT THE CONTRACTOR'S EXPENSE.
- G6. CONSTRUCTION INSPECTION AND MATERIAL TESTING WILL BE PROVIDED BY BOULDER COUNTY.
- G7. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE. ANY DISTURBANCE BEYOND THOSE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES SHALL ALSO INCLUDE VEHICLE AND EQUIPMENT PARKING, DISPOSAL OF LITTER, AND ANY OTHER ACTIVITY THAT WOULD ALTER EXISTING CONDITIONS.
- G8. UNLESS OTHERWISE SPECIFIED, REMOVAL ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVALS SHALL BE DISPOSED OF OUTSIDE OF THE PROJECT'S LIMITS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- G9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL AND SECURITY. REFER TO OSHA PUBLICATION 2226, EXCAVATING AND TRENCHING.
- G10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE, AND AVAILABLE TO THE BOULDER COUNTY INSPECTOR AT ALL TIMES. THESE UPDATES SHALL BE DONE AS WORK PROGRESSES. PREPARATION OF ASBUILT PLANS WILL NOT BE PAID FOR SEPARATELY. FINAL PIPE INVERTS AND SIGN LOCATIONS SHALL BE PROVIDED IN CAD FORMAT AND SHALL BE INCLUDED IN THE WORK.
- G11. UPON COMPLETION OF CONSTRUCTION, THE SITE SHALL BE CLEANED AND RESTORED TO A CONDITION EQUAL TO OR BETTER THAN, THAT WHICH EXISTED BEFORE CONSTRUCTION, OR TO THE GRADES AND CONDITION REQUIRED IN THESE PLANS.
- G12. DISPOSAL OF EXCESS MATERIAL OFF-SITE OR THE IMPORTING OF MATERIALS ON-SITE, REGARDLESS OF PROPERTY OWNERSHIP, MUST BE DONE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS AND POLICES.
- G13. ALL EXCESS MATERIAL GENERATED WITHIN THE PROJECT LIMITS SHALL BE REMOVED FROM THE PROJECT SITE AT NO ADDITIONAL COST TO THE PROJECT UNLESS SPECIFIED IN THE PLANS.
- G14. A BOULDER COUNTY HAULER LICENSE IS REQUIRED FOR HAULING OF MATERIAL OFF SITE, REGARDLESS OF WHERE THE MATERIAL IS DEPOSITED. THIS APPLIES TO THE PRIME CONTRACTOR AS WELL AS ANY SUBCONTRACTORS THAT COLLECT, TRANSPORT OR DISPOSE OF DISCARDED MATERIALS (GARBAGE, RECYCLABLES, OR COMPOSTABLES, CONSTRUCTION AND DEMOLITION WASTE, OR LANDSCAPING MATERIALS) IN UNINCORPORATED BOULDER COUNTY. SEE LINK FOR ADDITIONAL INFORMATION [HTTPS://WWW.BOULDERCOUNTY.ORG/ENVIRONMENT/TRASH/HAULER-LICENSE/](https://www.bouldercounty.org/environment/trash/hauler-license/).

EARTHWORK NOTES

- E1. WATER SHALL BE USED AS A DUST PALLIATIVE, WHERE REQUIRED, AND APPROVED BY THE ENGINEER. LOCATIONS SHALL BE AS ORDERED AND WILL NOT BE PAID FOR SEPARATELY. DEPTH OF MOISTURE - DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
 - FULL DEPTH OF EMBANKMENTS
 - BASES OF CUTS AND FILLS EIGHT (8) INCHES
- E2. 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.
- E3. THE TYPE OF COMPACTION FOR EARTHWORK ON THIS PROJECT SHALL BE AASHTO T99 (STANDARD PROCTOR). PROOFROLLING OF ALL SUBGRADE WILL BE REQUIRED PRIOR TO PAVING AND SHALL BE INCLUDED IN THE COST OF THE WORK.

SIGNING, STRIPING AND TRAFFIC CONTROL NOTES

- S1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING THE REQUIRED CONSTRUCTION ZONE TRAFFIC CONTROL DEVICES AND PERSONNEL PER SPECIAL PROVISIONS, SECTION 630 OF THE STANDARD SPECIFICATIONS AND THE MUTCD. THE CONTRACTOR IS PROHIBITED FROM STARTING WORK AT ANY LOCATION IF A TRAFFIC CONTROL PLAN, INCLUDING BICYCLES AND PEDESTRIANS, HAS NOT BEEN SUBMITTED AND APPROVED BY THE BOULDER COUNTY ENGINEER OR TRAFFIC ENGINEER.
- S2. CONTRACTOR SHALL PROVIDE SAFE, LOCAL ACCESS FOR ALL ADJACENT PROPERTY OWNERS, EMERGENCY SERVICES, SCHOOL BUSES, DELIVERIES, ETC. AT ALL TIMES.
- S3. REMOVAL OF TEMPORARY PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- S4. THE CONTRACTOR SHALL MAINTAIN PAVEMENT MARKINGS ON THE PROJECT AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD.
- S5. TRAFFIC WILL USE THE PRESENT ROADWAY DURING CONSTRUCTION.
- S6. ONLY ONE LANE MAY BE CLOSED TO TRAFFIC AT ANY TIME, UNLESS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL ONLY CLOSE THE SECTION OF ROADWAY REQUIRED TO PERFORM THE WORK FOR THE CURRENT CONSTRUCTION PHASE.
- S7. TWO LANES OF TRAFFIC SHALL BE MAINTAINED DURING ALL NON-WORKING HOURS.
- S8. THE CONTRACTOR SHALL NOT LEAVE A VERTICAL EDGE NEXT TO THE TRAVELED WAY DURING NON-WORKING HOURS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- S9. THERE SHALL BE NO SITE CONSTRUCTION ACTIVITIES ON SATURDAYS, SUNDAYS OR HOLIDAYS UNLESS THERE IS SPECIFIC WRITTEN APPROVAL BY BOULDER COUNTY.

PAVEMENT MARKINGS:

FINAL PAVEMENT STRIPING SHALL BE EPOXY PER CDOT STANDARD SPECIFICATIONS.

ALL STOP LINES, CROSSWALKS AND PAVEMENT MARKING SYMBOLS SHALL BE WHITE, PREFORMED THERMOPLASTIC, "PREMARK" OR EQUIVALENT.

STOP LINES SHALL BE 2' WIDE; CROSSWALKS SHALL BE 2' X 9', UNLESS OTHERWISE NOTED.

PAVEMENT MARKING ARROWS SHALL BE ELONGATED.

BICYCLE DETECTOR PAVEMENT MARKINGS SHALL BE PER MUTCD FIG. 9C-7 B WITH HELMETED BICYCLE SYMBOL.



PAVEMENT MARKINGS FOR BIKE LANES SHALL BE PER MUTCD FIG. 9C-3 B WITH HELMETED BICYCLE SYMBOL.

PREFORMED THERMOPLASTIC INSTALLATION ON CONCRETE SHALL HAVE THE CONCRETE CURE REMOVED PRIOR TO INSTALLATION OR A BONDING AGENT APPLIED TO THE CONCRETE BEFORE INSTALLATION. INSTALLATION SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

EROSION AND STORMWATER NOTES

- ER1. A BOULDER COUNTY STORMWATER QUALITY PERMIT (SWQP) IS REQUIRED FOR THIS PROJECT. BECAUSE IT:
 - IS WITHIN 100 HORIZONTAL FEET OF A PERMANENT PERENNIAL STREAM OR A MAIN IRRIGATION DITCH. FOR MORE INFORMATION ON QUALIFYING WATERWAYS AND PROJECTS, REFER TO THE GUIDANCE FOR SMALL CONSTRUCTION PROJECTS AVAILABLE ON THE BOULDER COUNTY PUBLIC WORKS DEPARTMENT WEBSITE.

THE BOULDER COUNTY STORMWATER QUALITY PERMIT CAN BE ACQUIRED VIA
<https://www.bouldercounty.org/transportation/permits/stormwater-quality-permit/>
- ER3. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREA AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE OWNER. THIS SHALL INCLUDE REMOVAL OF ANY DEBRIS CAUSED BY FLOODING.
- ER4. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION AND AT AREAS WITH DISTURBED SOIL, ON OR OFF SITE, PRIOR TO ANY OTHER GROUND DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING. EROSION CONTROL MEASURES SHALL BE PLACED CONTINUALLY AS DRAINAGE FEATURES ARE BEING CONSTRUCTED.
- ER5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN EXISTING CONTROL MEASURES AND ENSURE THEIR COMPLETE REMOVAL FROM THE PROJECT ONCE 70% OF THE PRE-EXISTING VEGETATION HAS BEEN RE-ESTABLISHED.
- ER6. SEE STORMWATER MANAGEMENT PLAN.
- ER7. CONTRACTOR/PERMITTEE SHALL PERIODICALLY INSPECT ALL INSTALLED CONTROL MEASURES, PROVIDE MAINTENANCE, AND MAKE REPAIRS AS NECESSARY TO PREVENT THEIR FAILURE.

BID-SET	 <p>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">NO.</th> <th style="width: 5%;">DATE</th> <th style="width: 90%;">REVISION DESCRIPTION:</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISION DESCRIPTION:							 <p>BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: DD</td> <td>CAD/C3D: RL</td> <td>CHECKED: DD</td> <td>DATE: 11/30/2020</td> </tr> </table>	DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020	<p>LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING</p> <p>GENERAL NOTES (1)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJECT NO: RS-00-021</td> <td>SHEET NO: 3</td> </tr> </table>	PROJECT NO: RS-00-021	SHEET NO: 3
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- ER8. SILT FENCE OR AN EQUIVALENT SHALL BE PLACED AS PERIMETER CONTROL ON ALL CONSTRUCTION ACTIVITIES THAT OCCUR ON LAND. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR OTHERWISE REQUESTED, REMOVE PERIMETER CONTROLS WITHIN 30 DAYS AFTER THE DATE OF WARRANTY PERFORMANCE OF THE WORK OR IN ACCORDANCE WITH CONTROL MEASURES.
- ER9. VEHICLE TRACKING CONTROLS SHALL BE USED AT ALL VEHICLE AND EQUIPMENT ACCESS POINTS TO THE SITE TO PREVENT SEDIMENT EXITING THE PROJECT SITE ONTO PAVED PUBLIC ROADS. ACCESS SHALL BE PROVIDED ONLY AT LOCATIONS APPROVED BY THE ENGINEER. VEHICLE TRACKING CONTROL LOCATIONS SHALL BE RECORDED ON THE SWMP SITE MAP.
- ER10. ALL INLETS AND CULVERTS SHALL BE PROTECTED DURING ONSITE CONSTRUCTION ACTIVITIES. INLET PROTECTION LOCATIONS SHALL BE RECORDED ON THE SWMP SITE MAP.
- ER11. CONCRETE WASTED IN DESIGNATED DEWATERING AREAS SHALL BE COLLECTED, REMOVED FROM THE PROJECT SITE, AND DISPOSED OF PROPERLY. WASTED CONCRETE ALSO INCLUDES EXCESS CONCRETE REMOVED FROM FORMS, SPILLS, SLOP, AND ALL OTHER UNUSED CONCRETE THAT ENDS UP ON THE GROUND.
- ER12. THE CONTRACTOR/PERMITTEE MUST MAINTAIN A SPILL KIT ON SITE WHEN WORKING AROUND SURFACE WATERS. IF POLLUTANTS ARE SPILLED INTO ANY SURFACE WATERS DURING THE COURSE OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR/PERMITTEE MUST NOTIFY THE OWNER'S REPRESENTATIVE OR ENGINEER IMMEDIATELY.

WASTE MANAGEMENT

- WM1. THE CONTRACTOR/PERMITTEE SHALL NOT BURN, BURY, OR OTHERWISE DISCHARGE CONSTRUCTION OR DEMOLITION WASTE ON THE SITE UNLESS SPECIFIED OTHERWISE.
- WM2. THE CONTRACTOR/PERMITTEE SHALL PROVIDE A SANITARY FACILITY AND ASSOCIATED MAINTENANCE SCHEDULE FOR THE CONSTRUCTION AREA SUFFICIENT TO ACCOMMODATE THE CONSTRUCTION CREW AND ALL OTHER AUTHORIZED PERSONS TO BE ONSITE DURING CONSTRUCTION ACTIVITIES TO BE PAID FOR AS SANITARY FACILITY (EACH).

HAZARDOUS MATERIALS

- HM1. THE CONTRACTOR/PERMITTEE SHALL TRANSPORT, USE, AND STORE HAZARDOUS MATERIALS IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS. SPILLED HAZARDOUS MATERIALS, INCLUDING HAZARDOUS LIQUID WASTES, SHALL BE REMOVED FROM THE SITE AND THE PROPERTY RESTORED TO ITS PRE-SPILL STATE IN ACCORDANCE WITH REGULATORY REQUIREMENTS.
- HM2. THE CONTRACTOR/PERMITTEE SHALL IMMEDIATELY REPORT SPILLS TO THE PROPER REGULATORY AUTHORITY AND SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- HM3. HANDLING OF CONSTRUCTION FUELS AND LUBRICANTS:
 - A. THE CONTRACTOR/PERMITTEE SHALL EMPLOY PERSONS QUALIFIED TO HANDLE CONSTRUCTION EQUIPMENT FUELS AND LUBRICANTS.
 - B. THE CONTRACTOR/PERMITTEE SHALL REFUEL AND SERVICE EQUIPMENT AWAY FROM FLOODPLAINS OF RIVERS, STREAMS AND OTHER BODIES OF WATER. THE CONTRACTOR/PERMITTEE SHALL ENSURE EQUIPMENT THAT ENTERS THE WATER IS FREE FROM EXTERNAL GREASE, OIL, AND MUD.
 - C. THE CONTRACTOR/PERMITTEE SHALL PREVENT HANDLING AND FUELING OPERATIONS FROM CONTAMINATING THE GROUND, SURFACE WATER, AND GROUND WATER. THE CONTRACTOR/PERMITTEE SHALL USE CONTAINMENT BERMS AND AN IMPERMEABLE BASE COURSE OR OTHER SYSTEM TO CONTAIN SPILLED FUEL.

GENERAL CARE OF WATER

- WC1. CARE OF WATER SHALL INCLUDE THE DESIGN OF ALL TEMPORARY CARE OF WATER PROVISIONS INCLUDING COFFER DAMS, SUMPS, PUMPING SYSTEMS, PIPELINES, CHANNELS, FLUMES, DRAINS, AND OTHER PROTECTIVE AND DEWATERING WORKS TO ALLOW FOR WORK TO BE PERFORMED UNDER DRY CONDITIONS.
- WC2. NO CONSTRUCTION EQUIPMENT SHALL BE OPERATED BELOW THE EXISTING WATER SURFACE UNLESS SPECIFICALLY AUTHORIZED BY THE STORMWATER QUALITY PERMIT ISSUED BY BOULDER COUNTY, AND ANY OTHER APPLICABLE LOCAL, STATE OR FEDERAL LICENSE OR PERMIT.
- WC3. THE CONTRACTOR/PERMITTEE IS RESPONSIBLE FOR ALL CARE OF WATER INCLUDING BUT NOT LIMITED TO DESIGNING, SUPPLYING, CONSTRUCTING, OPERATING, AND REMOVING ALL CARE OF WATER PROVISION INCLUDING COFFER DAMS AND SEDIMENT REMOVAL SYSTEMS; DESIGNING, SUPPLYING, INSTALLING, MAINTAINING, AND REMOVING PROTECTIVE WORKS FOR WINTER OPERATIONS OF CARE OF WATER SYSTEMS.
- WC4. THE CONTRACTOR/PERMITTEE SHALL COMPLY WITH ALL USACE 404 PERMIT REQUIREMENTS INCLUDING ANY SPECIAL CARE REQUIREMENTS ISSUED FOR THIS PROJECT.
- WC5. WHEN REQUIRED THE CONTRACTOR/PERMITTEE SHALL DESIGN TEMPORARY STREAM DIVERSIONS TO FACILITATE UPSTREAM FISH PASSAGE. INSTREAM VELOCITIES SHALL BE LIMITED TO 7 FT/SEC WHEN THIS PROVISION IS REQUIRED.
- WC6. CARE OF WATER SHALL INCLUDE PROVISIONS FOR HANDLING GROUNDWATER, RAINSTORM RUNOFF, SNOW, SNOWMELT, AND ICE THAT MAY ENTER THE WORK AREA.
- WC7. PROTECTIVE WORKS SHALL BE DESIGNED BY THE CONTRACTOR/PERMITTEE AS NECESSARY TO INCLUDE ENCLOSURES, INSULATION, AND HEATING SYSTEMS TO ENSURE THAT DEWATERING SYSTEMS OPERATE CONTINUOUSLY AND DO NOT BECOME FROZEN DURING COLD WEATHER.
- WC8. THE CONTRACTOR/PERMITTEE SHALL PROVIDE AND MAINTAIN SEDIMENT PONDS OR OTHER MEANS, REMOVE SEDIMENT FROM WATERS COLLECTED WITHIN ACTIVE CONSTRUCTION AREAS PRIOR TO ALLOWING IT TO ENTER OR RETURN INTO THE WATERCOURSE. CONTRACTOR/PERMITTEE SHALL DISPOSE OF SEDIMENTS IN A SUITABLE OFF- SITE WASTE DISPOSAL FACILITY.
- WC9. THE CONTRACTOR/PERMITTEE SHALL MONITOR WATER TURBIDITY DURING CONSTRUCTION ACTIVITIES AND SHALL SHUT DOWN WORKS AT TIMES OF EXCESS TURBIDITY IN ORDER TO ALLOW THE WATER TO CLEAR PRIOR TO RE- COMMENCEMENT OF IN-STREAM WORK.

- WC10. TURBIDITY IS EXPECTED DURING PLACEMENT AND REMOVAL OF WATER CONTROL. IF WATERS BECOME NOTICEABLY TURBID, CONTRACTOR/PERMITTEES SHOULD PROMPTLY HALT OPERATIONS TO ALLOW WATERS TO CLEAR PRIOR TO RESUMING OPERATIONS. FURTHERMORE, SHUTDOWNS FOR SILTY OR TURBID WATER MAY BE SPECIFIED BY THE ENGINEER OR THE OWNER'S REPRESENTATIVE, AT THEIR DISCRETION.
- WC11. IN THE EVENT OF UNSCHEDULED CONSTRUCTION ACTIVITY THAT RESULTS IN A VISUALLY CONSPICUOUS PLUME OF SEDIMENT, CONTRACTOR/PERMITTEE SHALL IMMEDIATELY NOTIFY THE ENGINEER AND UNDERTAKE MITIGATION ACTIONS NECESSARY TO COMPLY WITH THE SPECIFIED CLEAN WATER CRITERIA.

UTILITY NOTES

- U1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/ OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.
- U2. THE CONTRACTOR SHALL CALL FOR UTILITY LOCATIONS A MINIMUM OF THREE (3) WORKING DAYS (PREFERRED SEVEN (7) WORKING DAYS) PRIOR TO ANY EXCAVATION AT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 OR 811. ALSO, NOTIFY INDIVIDUAL UTILITIES 48-HOURS PRIOR TO ANY EXCAVATION.
- U3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING UTILITIES, INCLUDING ALL ACTIVE IRRIGATION FACILITIES DURING CONSTRUCTION AND SHALL HOLD THE COUNTY HARMLESS FOR DAMAGE ARISING FROM FAILURE TO ADEQUATELY PROTECT UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS REQUIRED TO PROTECT EXISTING UTILITIES AND/OR TO WORK AROUND SUCH UTILITIES. THIS INCLUDES, BUT IT NOT LIMITED TO, SUPPORTING AND SHORING OF EXISTING UTILITIES.
- U4. ALL UNDERGROUND UTILITY CONSTRUCTION SHALL BE COMPLETED AND ACCEPTED PRIOR TO PLACING PAVEMENT.
- U5. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH BOULDER COUNTY AND ALL UTILITY COMPANIES INVOLVED, WITH REGARD TO RELOCATIONS, EXTENSIONS AND REARRANGEMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES, IN ADVANCE, AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE AS WELL AS THE UTILITY COMPANIES.
- U6. IF A CONFLICT EXISTS BETWEEN UTILITIES AND PROPOSED IMPROVEMENTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN. DESIGN MODIFICATION(S) MUST BE APPROVED BY BOULDER COUNTY PRIOR TO BEGINNING CONSTRUCTION.
- U7. THE FOLLOWING IS A LIST OF KNOWN UTILITIES WITH SERVICE WITHIN THE PROJECT AREA AND THE CONTACT INDIVIDUALS:
 - 1. Century Link: Chris Janoski 303-552-8545/ Dan Lewis 303-441-7233
 - 2. Left Hand Water District: Steve Buckbee 303-530-4200
 - 3. Xcel Energy: Coral Breidenach 303-245-2281/ Keisha Hirsch 303-245-2280
 - 4. Fairways Metro District: Nick Moncada 303-987-0835
 - 5. Comcast: Kevin Young 720-281-8666

ENVIRONMENTAL NOTES:

- EN1. THE MIGRATORY BIRD TREATY ACT (MBTA) PROTECTS MIGRATORY BIRDS AND THEIR NESTS AND EGGS. FOR PROJECTS THAT COULD POTENTIALLY HAVE AN IMPACT, THE FOLLOWING CONDITIONS APPLY.
 - A. TREE TRIMMING/REMOVAL: TREE TRIMMING AND/OR REMOVAL ACTIVITIES SHALL BE COMPLETED BEFORE BIRDS BEGIN TO NEST OR AFTER THE YOUNG HAVE FLEDGED. IN COLORADO, MOST NESTING AND REARING ACTIVITIES OCCUR BETWEEN APRIL 1 AND AUGUST 31. HOWEVER, SINCE SOME BIRDS NEST AS EARLY AS FEBRUARY, A NESTING BIRD SURVEY SHALL BE CONDUCTED BY A BIOLOGIST BEFORE ANY TREE REMOVAL OR TRIMMING ACTIVITIES BEGIN.
 - B. BRIDGE/CULVERT WORK: BRIDGE OR CULVERT WORK THAT MAY DISTURB NESTING BIRDS SHALL BE COMPLETED BEFORE BIRDS BEGIN TO NEST OR AFTER THE YOUNG HAVE FLEDGED. IN COLORADO, MOST NESTING AND REARING ACTIVITIES OCCUR BETWEEN APRIL 1 AND AUGUST 31. IF WORK ACTIVITIES ARE PLANNED BETWEEN THESE DATES, NESTS SHALL BE REMOVED BEFORE NESTING BEGINS AND APPROPRIATE MEASURES TAKEN TO ASSURE NO NEW NESTS ARE CONSTRUCTED. FAILURE TO REMOVE AND KEEP NESTS FROM BECOMING ESTABLISHED MAY POSTPONE PROJECT CONSTRUCTION.

BID-SET	<p style="font-size: 8px;">CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">NO.</th> <th style="width: 5%;">DATE</th> <th style="width: 90%;">REVISION DESCRIPTION:</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISION DESCRIPTION:							<p>BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: DD</td> <td>CAD/C3D: RL</td> <td>CHECKED: DD</td> <td>DATE: 11/30/2020</td> </tr> </table>	DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020	<p>LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING</p> <p>GENERAL NOTES (2)</p> <p>PROJECT NO: RS-00-021 SHEET NO: 4</p>
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C. CLEARING/GRUBBING ACTIVITIES: CLEARING AND GRUBBING OF VEGETATION THAT MAY DISTURB GROUND NESTING BIRDS SHALL BE COMPLETED BEFORE BIRDS BEGIN TO NEST OR AFTER THE YOUNG HAVE FLEDGED. IN COLORADO, MOST NESTING AND REARING ACTIVITIES OCCUR BETWEEN APRIL 1 AND AUGUST 31. VEGETATION SHALL BE REMOVED AND/OR TRIMMED TO A HEIGHT OF SIX (6) INCHES OR LESS PRIOR TO APRIL 1. ONCE VEGETATION HAS BEEN REMOVED AND/OR TRIMMED, APPROPRIATE MEASURES, I.E. REPEATED MOWING/TRIMMING, SHALL BE IMPLEMENTED TO ASSURE VEGETATION DOES NOT GROW MORE THAN SIX (6) INCHES. FAILURE TO MAINTAIN VEGETATION HEIGHT OF SIX (6) INCHES OR LESS MAY POSTPONE PROJECT CONSTRUCTION.

D. BIRDS OF PREY: IF CONSTRUCTION OCCURS BETWEEN FEBRUARY 15 AND AUGUST 31, A PRE-CONSTRUCTION SURVEY FOR NESTING RAPTORS MUST BE COMPLETED WITHIN A HALF-MILE BUFFER OF THE PROJECT LIMITS. IF ANY NESTING RAPTORS OCCUR WITHIN THIS BUFFER AREA, FOLLOW THE COLORADO PARKS AND WILDLIFE'S "RECOMMENDED BUFFER ZONES AND SEASONAL RESTRICTIONS FOR COLORADO RAPTORS" GUIDELINES ([HTTPS://CPW.STATE.CO.US/DOCUMENTS/WILDLIFESPECIES/LIVINGWITHWILDLIFE/RAPTORBUFFERGUIDELINES2008.PDF](https://cpw.state.co.us/documents/wildlifespecies/livingwithwildlife/raptorbufferguidelines2008.pdf)).

EN2. NOXIOUS WEEDS: NOXIOUS WEEDS MAY PERSIST ON OR ADJACENT TO THE PROJECT LOCATION. NOXIOUS WEEDS ON THE STATE A & B WEEDS LIST MUST BE CONTROLLED IN ACCORDANCE WITH STATE REQUIREMENTS. THE STATE WEED LIST IS AVAILABLE HERE: [HTTPS://WWW.COLORADO.GOV/PACIFIC/AGCONSERVATION/NOXIOUS-WEED-SPECIES](https://www.colorado.gov/pacific/agconservation/noxious-weed-species).

EN3. WASTE MANAGEMENT: CONTRACTOR SHALL INSPECT EQUIPMENT AND VEHICLES AS OFTEN AS IS NECESSARY TO INSURE THAT PETROLEUM, OILS AND LUBRICANTS (POL) ARE NOT LEAKING ONTO THE SOIL OR PAVEMENT. THE CONTRACTOR SHALL HAVE READY APPROVED ABSORBENT MATERIALS OR CONTAINERS OF SUFFICIENT CAPACITY TO CONTAIN ANY LEAK OF POL THAT CAN REASONABLY BE FORESEEN. ALL MATERIALS RESULTING FROM POL LEAKAGE CONTROL AND CLEANUP SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. THE COST OF CONTROL AND CLEANUP OF POL LEAKS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE WORK.

EN4. WASTE MATERIALS: THERE SHALL BE NO STOCKPILING OR SIDE CASTING OF WASTE MATERIALS, INCLUDING BUT NOT LIMITED TO, PAINT CHIPS, ASPHALT OR CONCRETE ADJACENT TO WETLANDS OR WATERS OF THE U.S.

EN5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL GENERATED ONSITE, NO STOCKPILING WILL BE ALLOWED.

EN6. INVASIVE AQUATIC SPECIES: THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE) AND THE COLORADO PARKS & WILDLIFE HAVE THE FOLLOWING CONDITIONS FOR WORK IN STREAMS. IF HEAVY EQUIPMENT IS USED THAT WAS PREVIOUSLY WORKING IN ANOTHER STREAM, RIVER, LAKE, POND OR WETLAND WITHIN 10 DAYS OF WORKING ON THIS PROJECT, ONE OF THE FOLLOWING DISINFECTION PRACTICES IS NECESSARY PRIOR TO CONSTRUCTION TO PREVENT THE SPREAD OF NEW ZEALAND MUD SNAILS AND OTHER AQUATIC HITCHHIKERS INTO THIS DRAINAGE. ALSO CLEAN ANY HAND TOOLS, BOOTS, OR OTHER EQUIPMENT THAT WILL BE SUE IN THE WATER WITH ONE OF THE BELOW METHODS. THESE PRACTICES ALSO ARE NECESSARY AFTER PROJECT COMPLETION, PRIOR TO EQUIPMENT BEING USED IN ANOTHER STREAM, RIVER, LAKE, POND OR WETLAND FOR THE SAME PURPOSE:

A. REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT (TRACKS, TURRETS, BUCKETS, DRAGS, TEETH, ETC.) AND THEN KEEP EQUIPMENT DRY FOR 10 DAYS; OR

B. REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT (TRACKS, TURRETS, BUCKETS, DRAGS, TEETH, ETC.) AND SPRAY/SOAK EQUIPMENT WITH A 1:1 SOLUTION FO FORMULA 409 HOUSEHOLD CLEANER AND WATER, OR A 1:15 SOLUTION OF SPARQUAT INSTITUTIONAL CLEANER AND WATER. KEEP ALL EQUIPMENT MOIST FOR AT LEAST 10 MINUTES, OR

C. REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT (TRACKS, TURRETS, BUCKETS, DRAGS, TEETH, ETC.) AND SPRAY/SOAK EQUIPMENT WITH WATER GREATER THAN 130 DEGREES FAHRENHEIT FOR AT LEAST 10 MINUTES.

EN7. ONCE VEGETATION HAS BEEN COMPLETED, THE ENGINEER AND THE CONTRACTOR WILL CONDUCT A WALKTHROUGH OF THE PROJECT SITE. THE PURPOSE OF THE WALKTHROUGH IS TO IDENTIFY ANY AREAS WHERE CONTROL MEASURES NEED TO BE REMOVED OR MAINTAINED AND IDENTIFICATION OF RESPONSIBLE PARTY UNTIL CDPS PERMIT IS CLOSED.

PAVEMENT NOTES:

- P1. PLAN QUANTITIES OF SURFACING MATERIALS ARE BASED ON THE FOLLOWING UNIT WEIGHTS AND APPLICATION RATES:
 - HOT MIX ASPHALT @ 150 LBS/C.F.
 - TACK COAT DILUTED EMULSIFIED ASPHALT (SLOW SETTING @ 0.10 GAL/S.Y. (DILUTED 1:1 WITH WATER)
 - AGGREGATE BASE COURSE @ 135 LBS./C.F.
THE ENGINEER SHALL RESERVE THE RIGHT TO ADJUST RATES OF APPLICATION IN THE FIELD AS CONDITIONS WARRANT.
- P2. TACK COAT WILL NOT BE REQUIRED FOR NEW PAVEMENT PLACED ON AN AGGREGATE BASE COURSE.
- P3. SWEEP DIRT AND GRAVEL FROM THE EXISTING ASPHALT SURFACE PRIOR TO PLACING HOT MIX ASPHALT. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE WORK.
- P4. ANY LAYER OF HOT MIX ASPHALT PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
- P5. EMULSIFIED ASPHALT (SLOW SETTING) SHALL CONSIST OF 1 PART WATER AND 1 PART EMULSIFIED ASPHALT. EMULSIFIED ASPHALT (SLOW SETTING) WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE WORK.
- P6. A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED TO IMPROVE BOND AT THE FOLLOWING LOCATIONS:
 - BEFORE PLACING NEW PAVEMENT OVER EXISTING PAVEMENT
 - ALONG THE FACE OF ALL CURBS, GUTTERS, MANHOLES, ADJACENT EXISTING PAVEMENT, AND OTHER SURFACES AGAINST WHICH ASPHALT WILL BE PLACED BETWEEN PAVEMENT COURSES
- P7. DUE TO THE NATURE OF THE PROJECT INCENTIVES WILL NOT BE USED FOR ASPHALT PAVEMENT SMOOTHNESS. PROVIDE A BITUMINOUS PAVER AND DEVICES IN ACCORDANCE WITH SUBSECTION 401.10 OF THE SPECIFICATIONS.



DRAINAGE NOTES

- D1. THE CONTRACTOR IS REQUIRED TO KEEP ALL DRAINAGE FACILITIES FUNCTIONAL AND MAINTAIN DRAINAGE TO THOSE FACILITIES AT ALL TIMES DURING CONSTRUCTION.

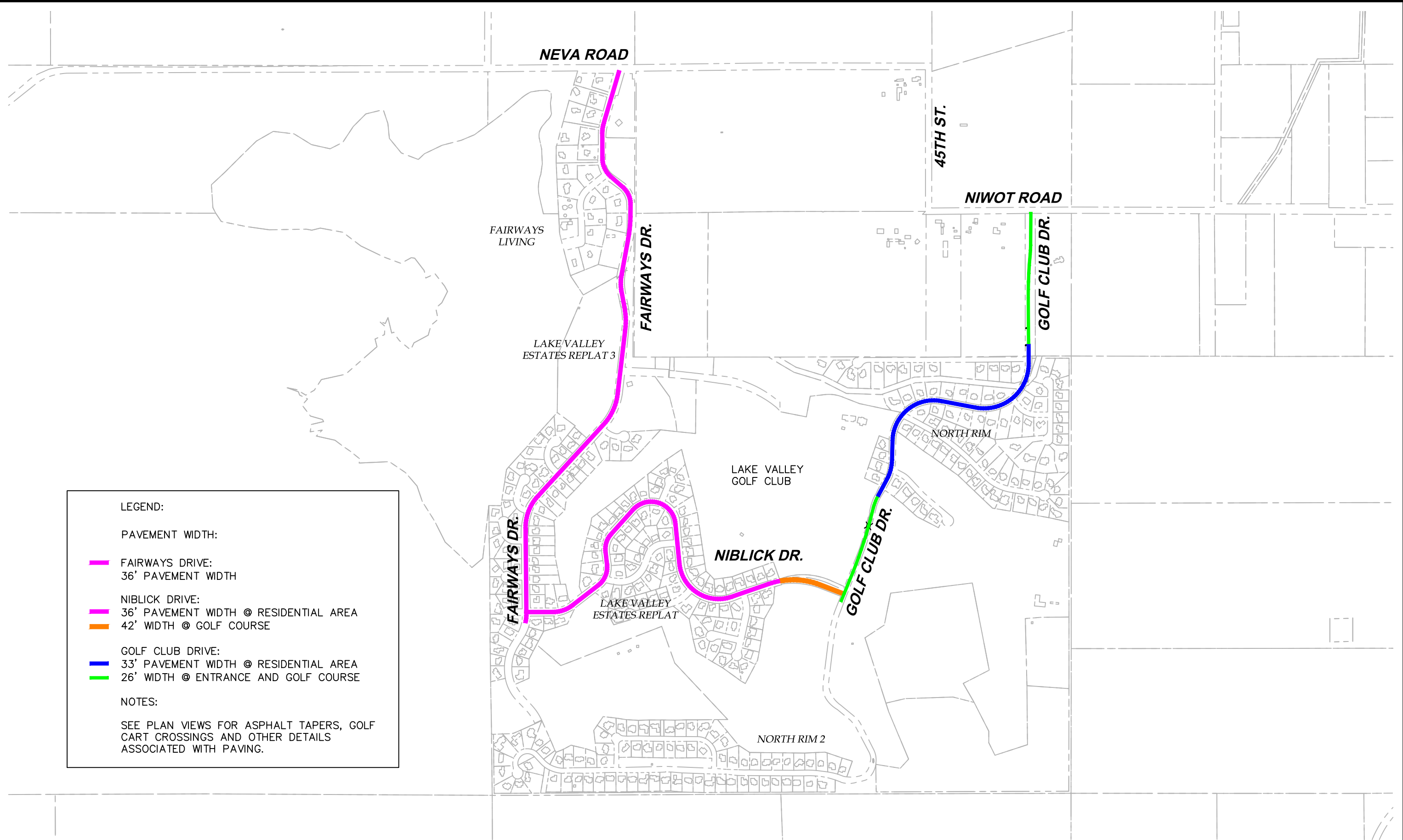
QUANTITY NOTES

Q1. THE FOLLOWING ITEMS ARE INCLUDED IN THE SUMMARY OF APPROXIMATE QUANTITIES:

CLEARING & GRUBBING	LS	1	
SANITARY FACILITY	EA	1	
CONSTRUCTION SURVEY	LS	1	
MOBILIZATION	LS	1	
F/A MINOR CONTRACT REVISIONS	F/A	1	

BID-SET	 <p>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">NO.</th> <th style="width: 5%;">DATE</th> <th style="width: 90%;">REVISION DESCRIPTION:</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISION DESCRIPTION:							 <p>BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: DD</td> <td>CAD/C3D: RL</td> <td>CHECKED: DD</td> <td>DATE: 11/30/2020</td> </tr> </table>	DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020	<p>LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING</p> <p>GENERAL NOTES (3)</p> <p>PROJECT NO: RS-00-021 SHEET NO: 5</p>
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LEGEND:

PAVEMENT WIDTH:

- █ FAIRWAYS DRIVE:
36' PAVEMENT WIDTH
- █ NIBLICK DRIVE:
36' PAVEMENT WIDTH @ RESIDENTIAL AREA
█ 42' WIDTH @ GOLF COURSE
- █ GOLF CLUB DRIVE:
33' PAVEMENT WIDTH @ RESIDENTIAL AREA
█ 26' WIDTH @ ENTRANCE AND GOLF COURSE


NOTES:

SEE PLAN VIEWS FOR ASPHALT TAPERS, GOLF CART CROSSINGS AND OTHER DETAILS ASSOCIATED WITH PAVING.



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CALL UTILITY NOTIFICATION CENTER OF COLORADO



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

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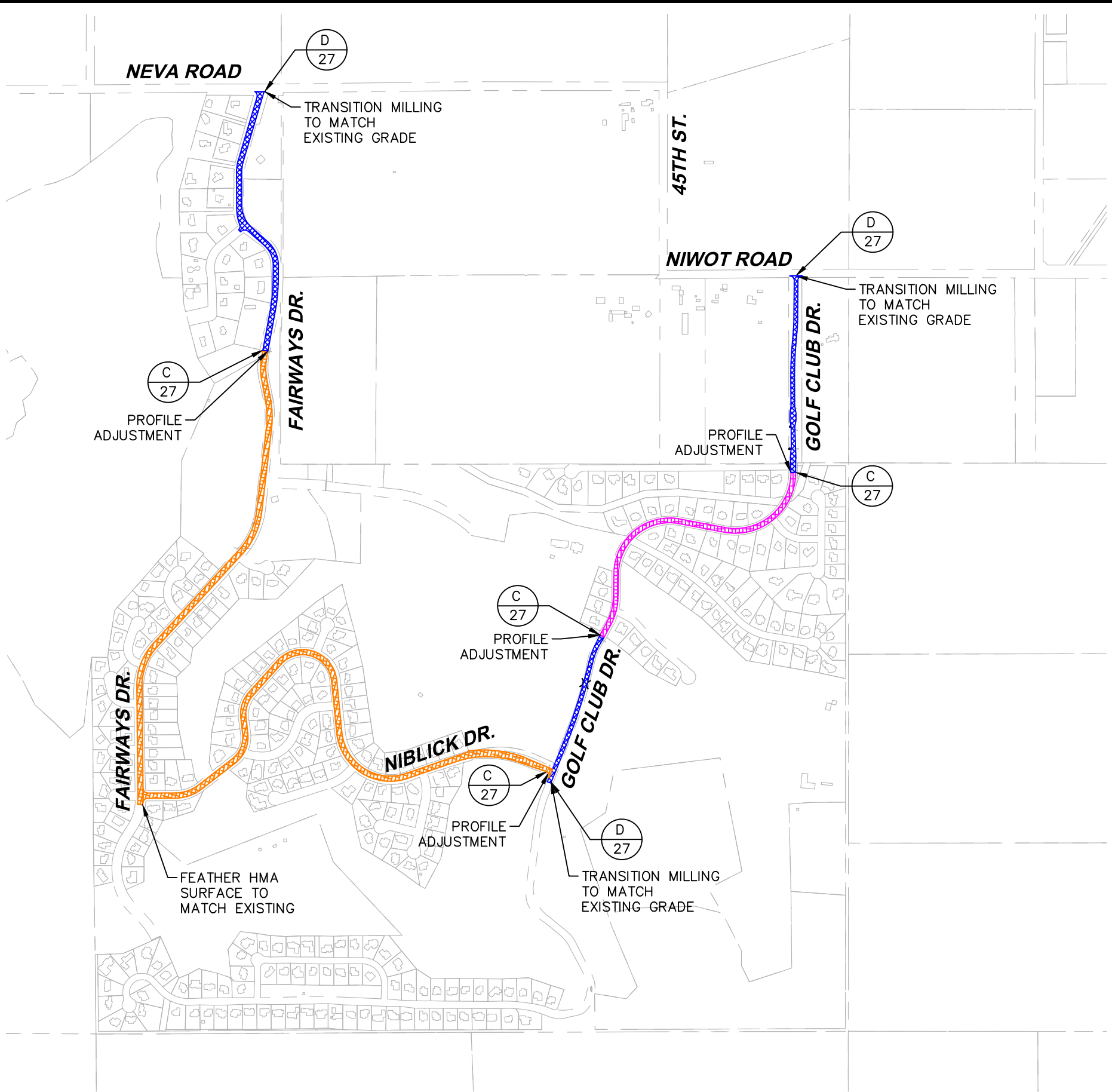


BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION




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LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING	
LAKE VALLEY-PAVEMENT WIDTHS	
PROJECT NO: RS-00-021	SHEET NO: 6

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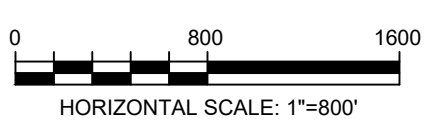


LEGEND:

-  PAVEMENT MILLING AND HMA OVERLAY
-  FULL DEPTH RECLAMATION (FDR) 0-8" DEPTH AND HMA PAVING
-  FULL DEPTH RECLAMATION (FDR) 8-12" DEPTH AND HMA PAVING


NOTES:

1. PROFILE ADJUSTMENT NEEDED ANYWHERE FDR MATCHES UP TO THE TRADITIONAL MILL AND OVERLAY.



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CALL UTILITY NOTIFICATION CENTER OF COLORADO



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

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION

DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING


OVERLAY AND FDR PAVING LOCATIONS

PROJECT NO: RS-00-021 SHEET NO: 7

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ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT TOTAL
201-00000	CLEAR AND GRUB	LS	1.00
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	S.Y.	11304.00
202-04002	CLEAN CULVERT	EA	1.00
203-00010	UNCLASSIFIED EXCAVATION (CIP)	CY	7806.00
208-00012	EROSION LOG (9-INCH)(TYPE 1)	LF	950.00
208-00035	AGGREGATE BAG	L.F.	100.00
208-00054	STORM DRAIN INLET PROTECTION TYPE III	EA.	7.00
208-00103	REMOVAL AND DISPOSAL OF SEDIMENT (LABOR)	HR	40.00
208-00105	REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT)	HR	10.00
208-00106	SWEEPING (SEDIMENT REMOVAL)	HOUR	40.00
208-00207	STORMWATER MANAGEMENT PLAN	LS	1.00
208-00207	EROSION CONTROL SUPERVISOR	HOUR	60.00
210-00010	RESET MAILBOX	EA.	9.00
210-00810	RESET SIGN	EA.	1.00
210-01710	RESET VALVE BOX	EA.	14.00
210-04010	RESET MANHOLE	EA.	11.00
212-00006	SEEDING NATIVE	ACRE	0.04
212-00032	SOIL CONDITIONING	ACRE	0.04
304-06000	AGGREGATE BASE COURSE CLASS 6 (SHOULDER/DRIVEWAY)	TON	706.00
310-00608	FULL DEPTH RECLAMATION OF HOT MIX ASPHALT PAVEMENT (0-8")	SY	41857.00
310-00610	FULL DEPTH RECLAMATION OF HOT MIX ASPHALT PAVEMENT (8-12")	SY	8837.00
403-00720	HOT BITUMINOUS PAVEMENT (PATCHING 6")(ASPHALT)	TON	530.00
403-33641	HOT MIX ASPHALT (GRADING S)(ASPHALT)(50)(PG64-22)	TON	13964.00
403-34741	HOT MIX ASPHALT (GRADING SX)(ASPHALT)(50)(PG64-22)	TON	6726.00
606-00301	GUARDRAIL TYPE 3 (W BEAM 31 INCH) (6-3 POST SPACING)	LF	150.00
606-01390	END ANCHORAGE TYPE 3 (FLARED)	EA	2.00
606-02005	END ANCHORAGE (FLARED)	EA	2.00
606-10200	BRIDGE RAIL TYPE 3 (W-BEAM 31 INCH)	LF	68.00
608-00006	CONCRETE SIDEWALK (6- INCH)	SY	550.00
609-21020	CURB & GUTTER TYPE 2 (SECTION II-B)	LF	225.00
609-24008	GUTTER TYPE 2 (8 FOOT)	LF	60.00
620-00020	SANITARY FACILITY	EA.	2.00
625-00000	CONSTRUCTION SURVEYING	L.S.	1.00
626-000000	MOBILIZATION	L.S.	1.00
627-00005	PAVEMENT MARKING (EPOXY)	GAL	130.00
627-30210	PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP BAR-CROSSWALK)	S.F.	292.00
630-00000	FLAGGING	HOUR	4000.00
630-00007	TRAFFIC CONTROL INSPECTION	DAY	14.00
630-00008	CONSTRUCTION ZONE TRAFFIC CONTROL	LS	1.00
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	70.00
630-80344	PORTABLE MESSAGE SIGN PANEL	EA.	8.00
630-80344	CONSTRUCTION TRAFFIC SIGN (SPECIAL)(PROJECT INFO.)	EA.	2.00
630-80348	CONSTRUCTION TRAFFIC SIGN (SPECIAL)(FUNDING INFO.)	EA.	2.00
700-70010	FORCE ACCOUNT - MINOR CONTRACT REVISIONS	F/A	1.00

BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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

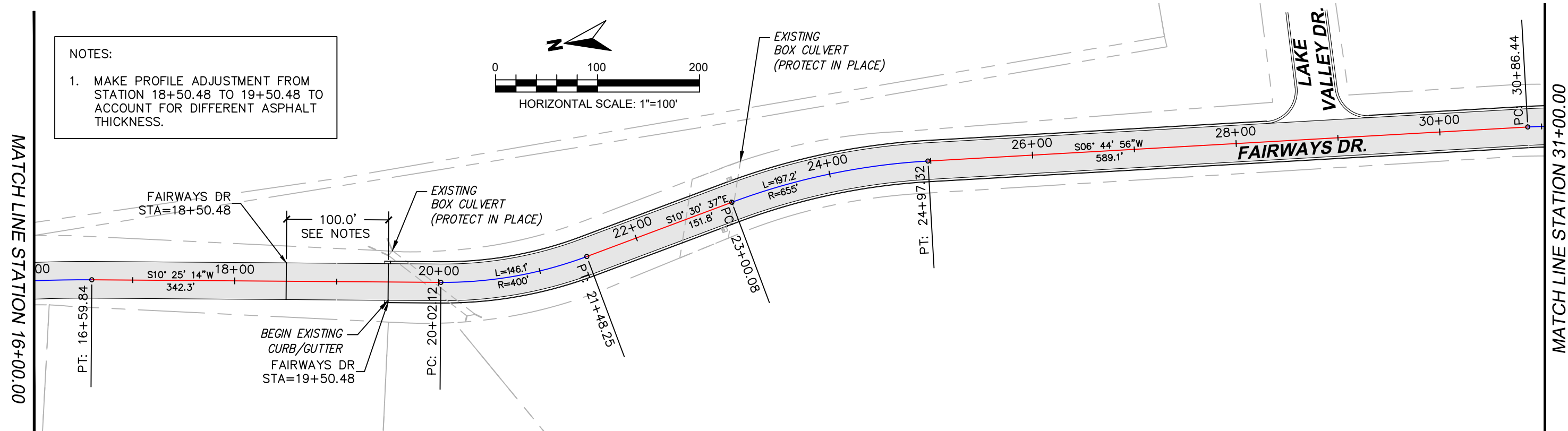
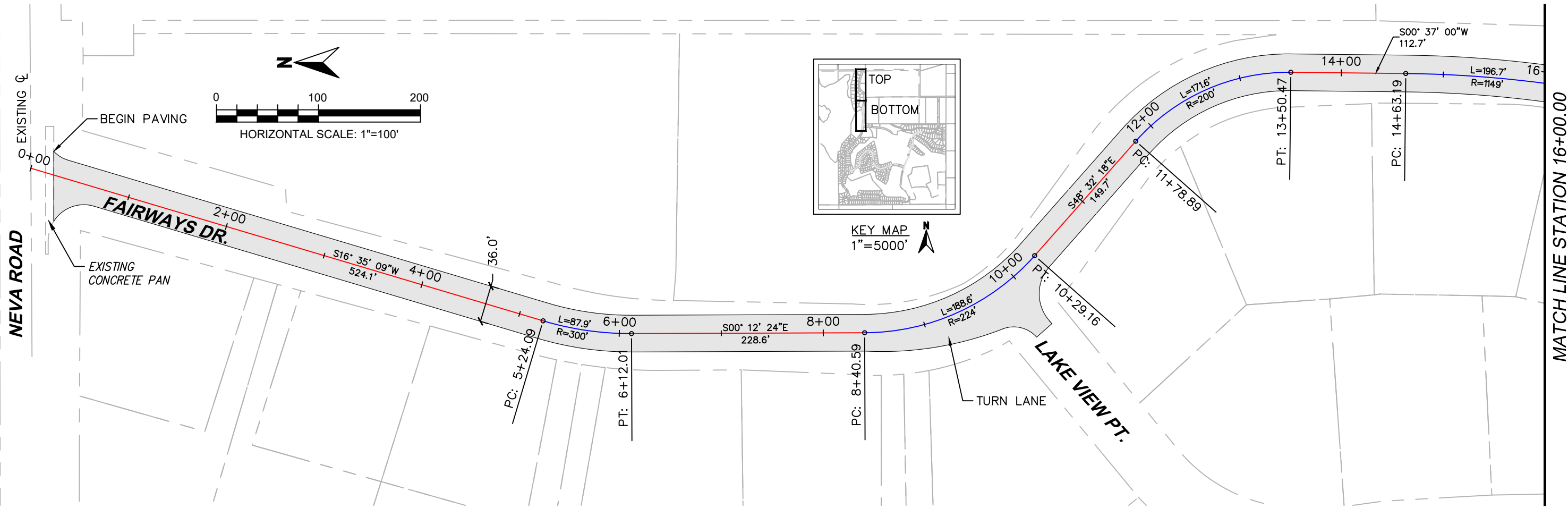
NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
 DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020


LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
LAKE VALLEY-QUANTITIES
 PROJECT NO: **RS-00-021** SHEET NO: **8**

C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-FAIRWAYS DR 22 AUGUST 2017.DWG LAST PLOTTED 11/30/2020 11:51 AM



NOTES:
 1. MAKE PROFILE ADJUSTMENT FROM STATION 18+50.48 TO 19+50.48 TO ACCOUNT FOR DIFFERENT ASPHALT THICKNESS.

BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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

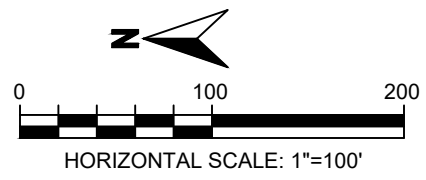
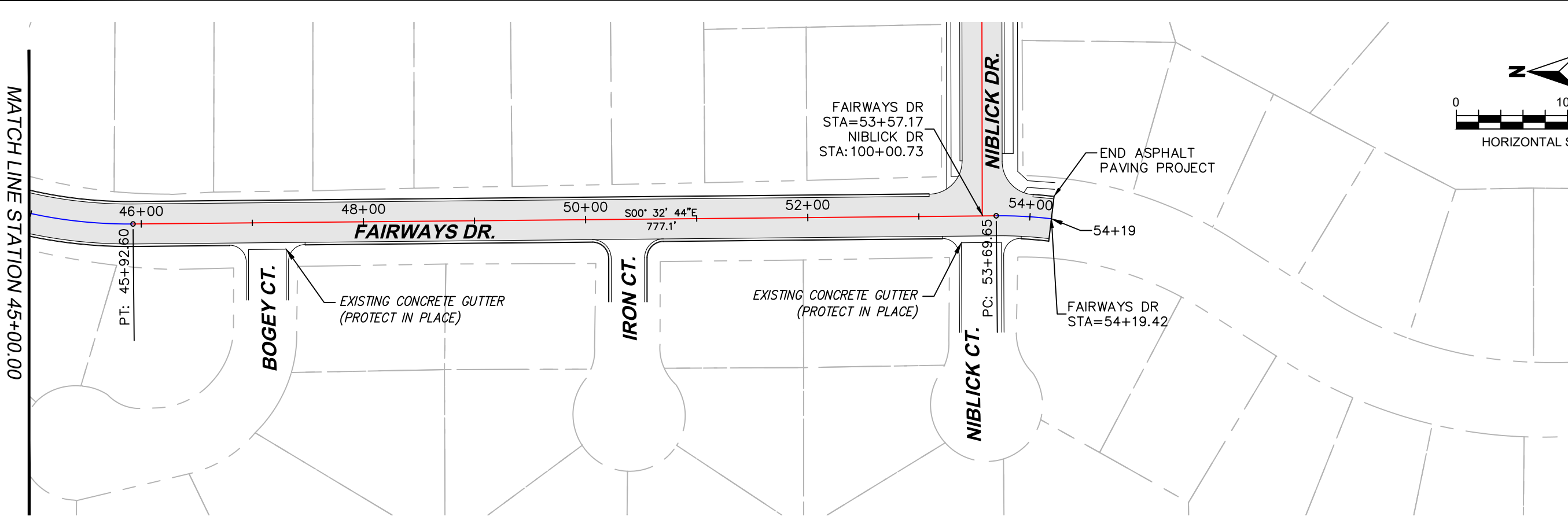
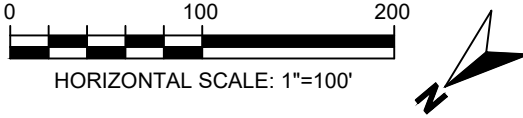
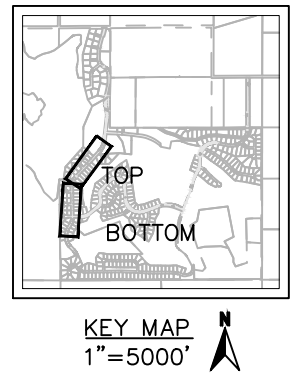
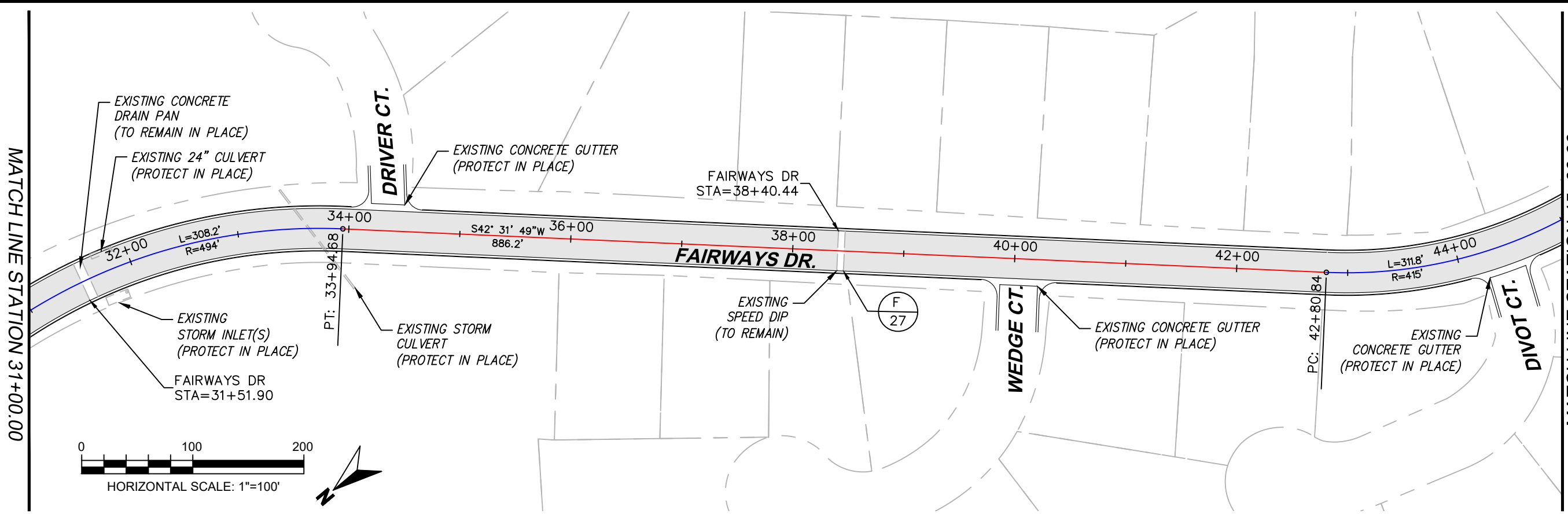
NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
 DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

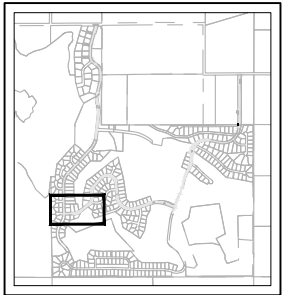
LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
FAIRWAYS DRIVE-PLAN VIEW (1)
 PROJECT NO: RS-00-021 SHEET NO: 9

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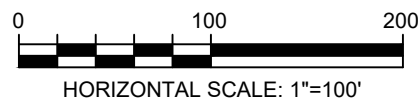
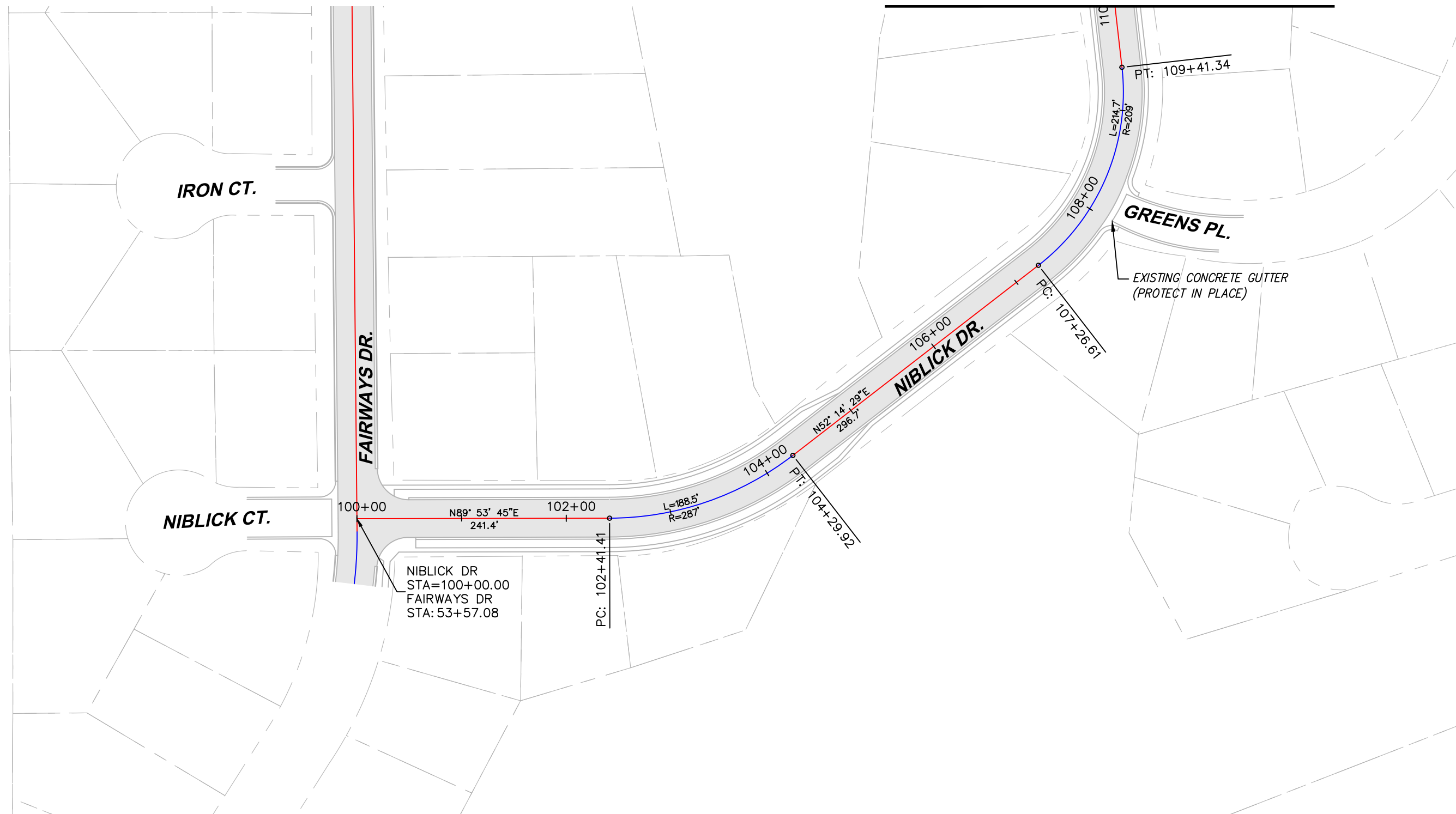
BID-SET		CALL UTILITY NOTIFICATION CENTER OF COLORADO		CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES		REVISIONS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 85%;">REVISION DESCRIPTION:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	REVISION DESCRIPTION:											BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION		LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING	
		NO.	DATE	REVISION DESCRIPTION:																			
DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020	FAIRWAYS DRIVE-PLAN VIEW (2)		PROJECT NO: RS-00-021	SHEET NO: 10																

C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-NIBLICK DR 22 AUGUST 2017.DWG LAST PLOTTED 11/30/2020 11:51 AM



KEY MAP
1"=5000'

MATCH LINE STATION 110+00.00



BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO



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

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION

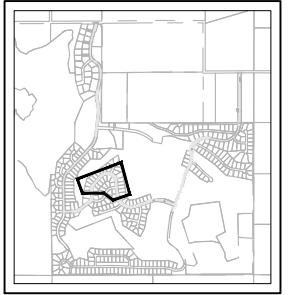
DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020
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LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING

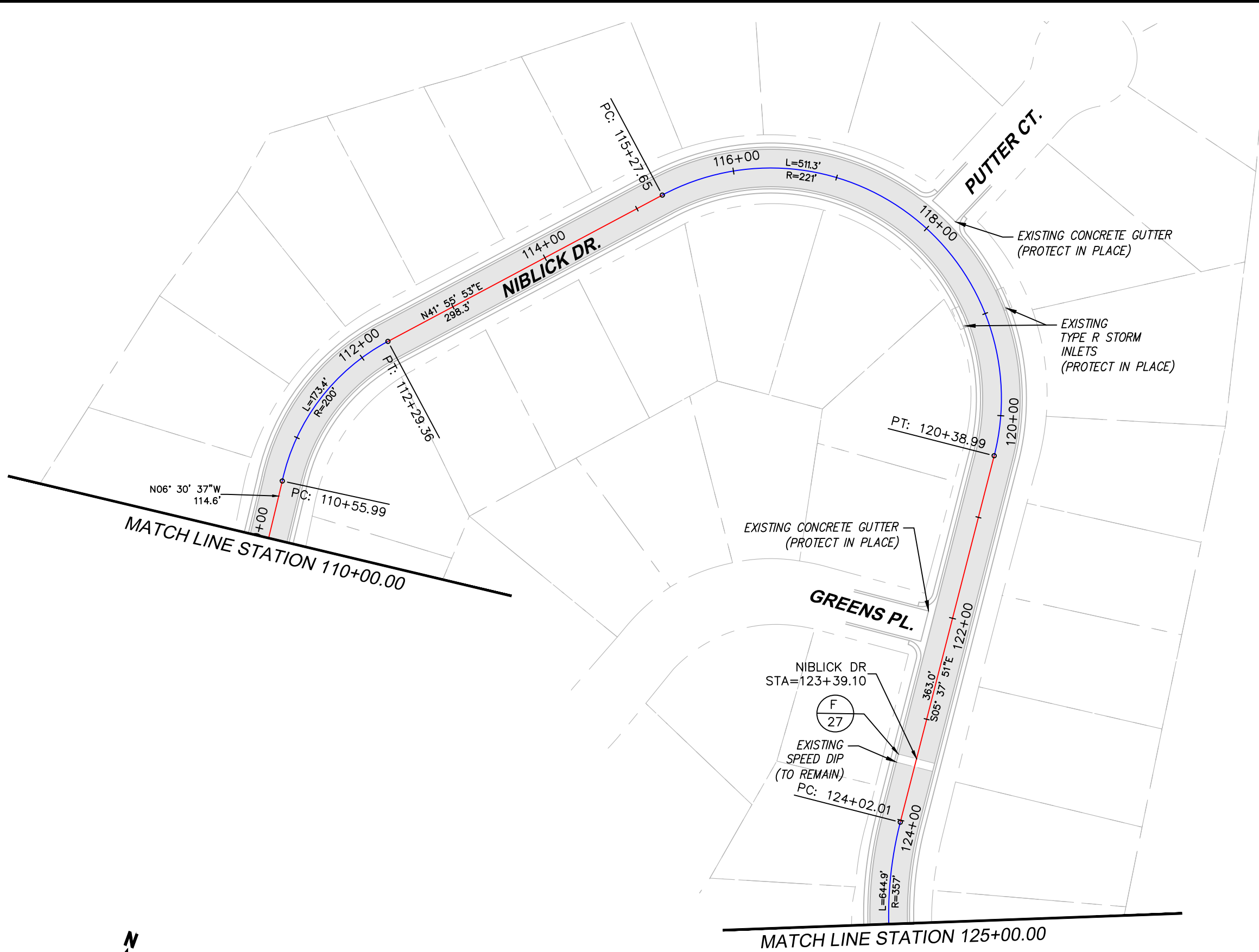
NIBLICK DRIVE-PLAN VIEW (1)

PROJECT NO: RS-00-021	SHEET NO: 11
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C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-NIBLICK DR 22 AUGUST 2017.DWG LAST PLOTTED 11/30/2020 11:52 AM



KEY MAP
1"=5000'



BID-SET

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

NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
 DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

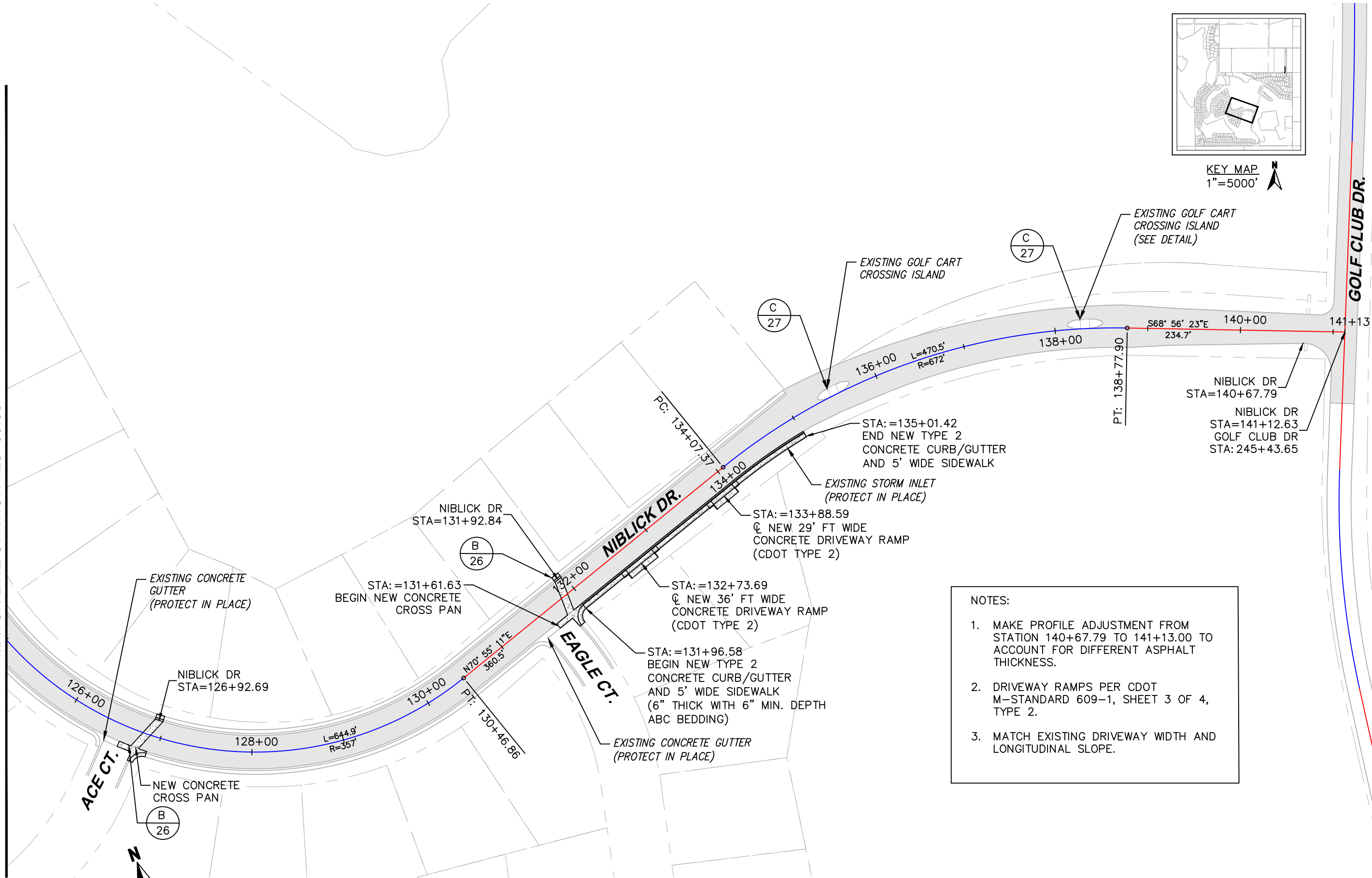
LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
NIBLICK DRIVE-PLAN VIEW (2)
 PROJECT NO: RS-00-021 SHEET NO: 12

C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-NIBLICK DR 22 AUGUST 2017.DWG LAST PLOTTED 11/30/2020 11:52 AM



KEY MAP
1"=5000'

MATCH LINE STATION 125+00.00



- NOTES:
1. MAKE PROFILE ADJUSTMENT FROM STATION 140+67.79 TO 141+13.00 TO ACCOUNT FOR DIFFERENT ASPHALT THICKNESS.
 2. DRIVEWAY RAMPS PER CDOT M-STANDARD 609-1, SHEET 3 OF 4, TYPE 2.
 3. MATCH EXISTING DRIVEWAY WIDTH AND LONGITUDINAL SLOPE.



BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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

NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
 DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
NIBLICK DRIVE-PLAN VIEW (3)
 PROJECT NO: RS-00-021 SHEET NO: 13

C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-GOLF CLUB DR 22 AUGUST 2017.DWG LAST PLOTTED 11/30/2020 11:52 AM

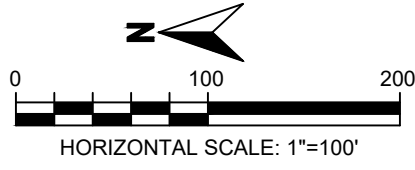
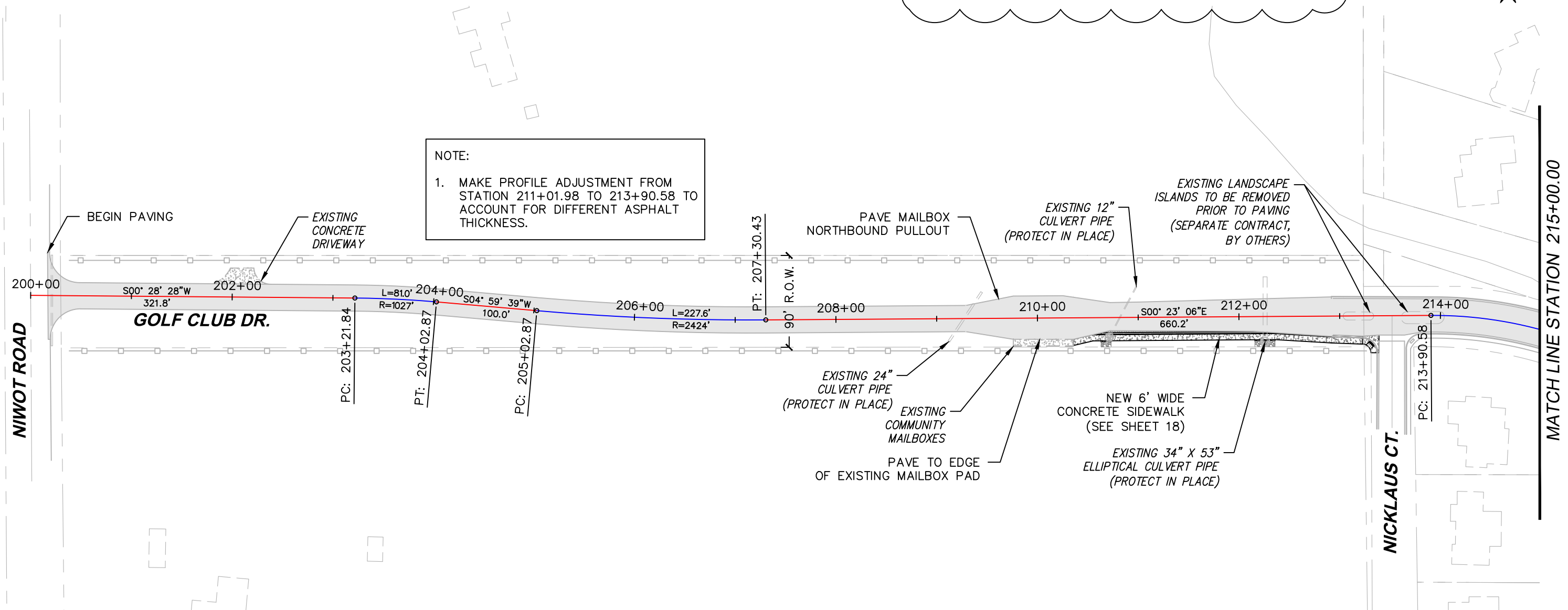
THE SIDEWALK LAYOUT SHOWN ON THIS SHEET IS PRELIMINARY AND SUBJECT TO CHANGE PENDING THE COMPLETION OF A TOPOGRAPHIC SURVEY.

FINAL ADJUSTMENTS WILL BE MADE TO THIS LAYOUT PRIOR TO THE ISSUE OF FINAL CONSTRUCTION DRAWINGS.



KEY MAP
1"=5000'

NOTE:
1. MAKE PROFILE ADJUSTMENT FROM STATION 211+01.98 TO 213+90.58 TO ACCOUNT FOR DIFFERENT ASPHALT THICKNESS.

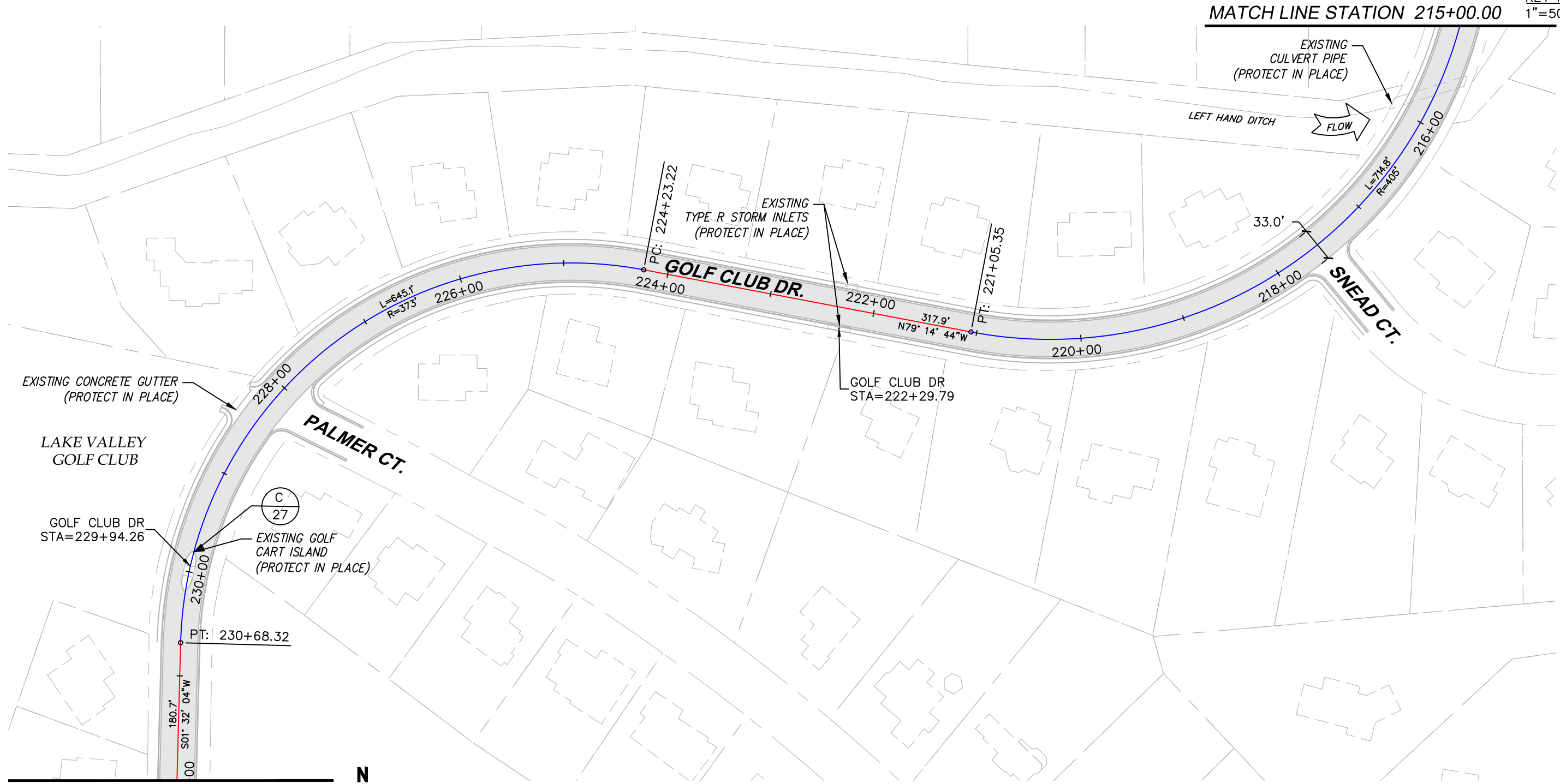


BID-SET	CALL UTILITY NOTIFICATION CENTER OF COLORADO		REVISIONS:			BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION		LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING	
	CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES		NO.	DATE		DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020

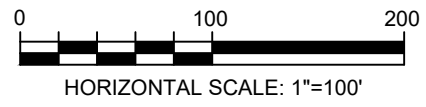
C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-GOLF CLUB DR 22 AUGUST 2017.DWG LAST PLOTTED 11/30/2020 11:52 AM




KEY MAP
1"=5000'



MATCH LINE STATION 232+00.00



BID-SET

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

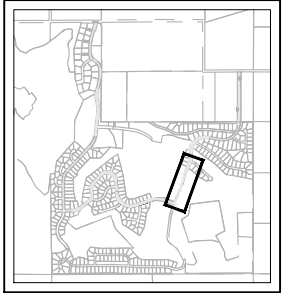
NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
 DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

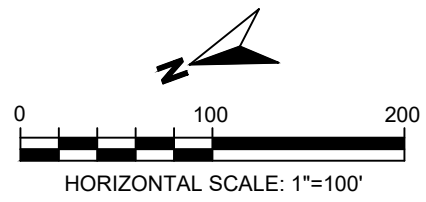
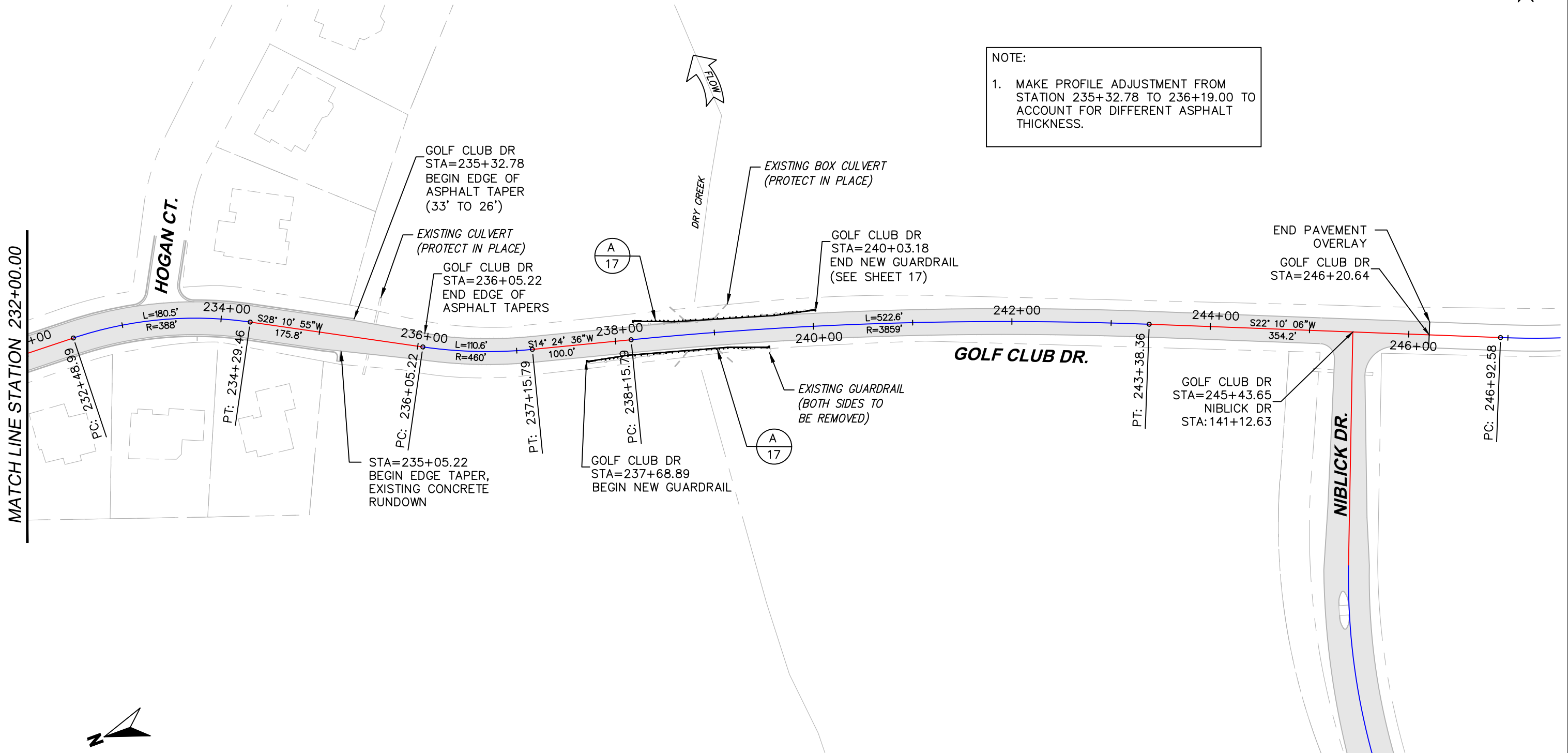
LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
GOLF CLUB DRIVE-PLAN VIEW (2)
 PROJECT NO: RS-00-021 SHEET NO: 15

C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-GOLF CLUB DR 22 AUGUST 2017.DWG LAST PLOTTED 11/30/2020 11:52 AM



KEY MAP
1"=5000'

NOTE:
1. MAKE PROFILE ADJUSTMENT FROM STATION 235+32.78 TO 236+19.00 TO ACCOUNT FOR DIFFERENT ASPHALT THICKNESS.



BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

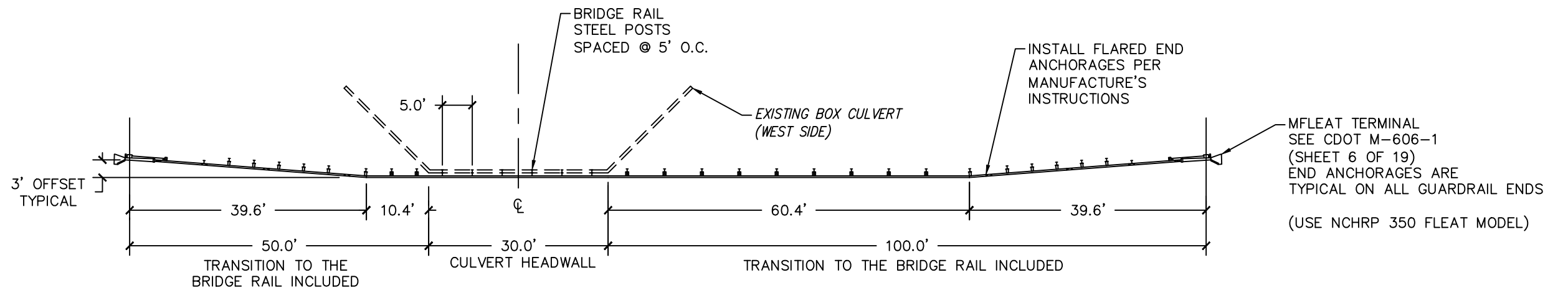
NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
GOLF CLUB DRIVE-PLAN VIEW (3)
PROJECT NO: RS-00-021 SHEET NO: 16

C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-GUARDRAIL-DETAIL 17 JULY 2020.DWG LAST PLOTTED 11/30/2020 11:52 AM

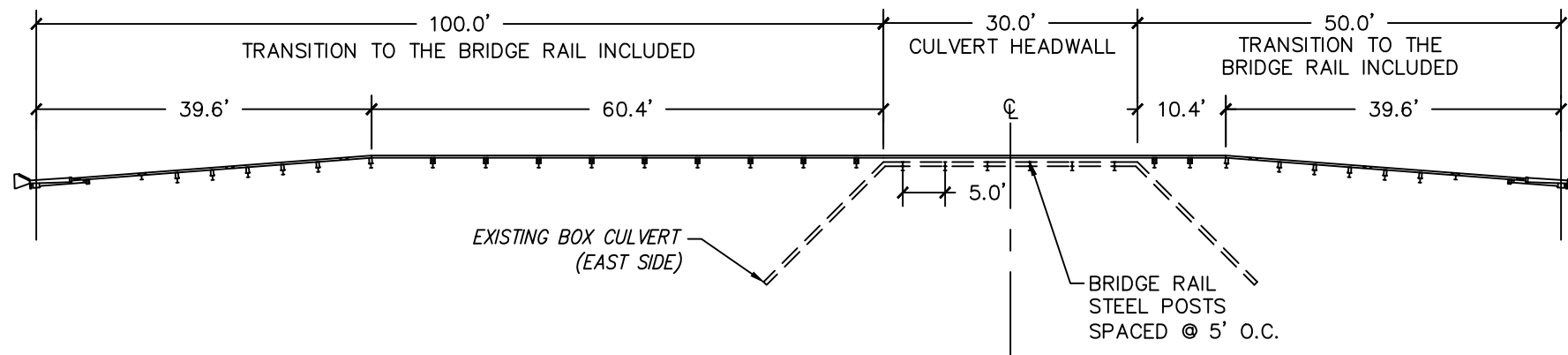


STA: 238+41.02
GOLF CLUB DRIVE

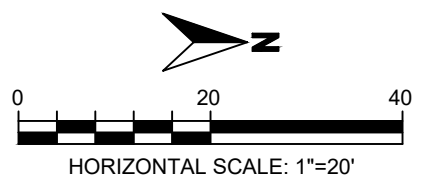
← SOUTHBOUND LANE

GOLF CLUB DR.

→ NORTHBOUND LANE

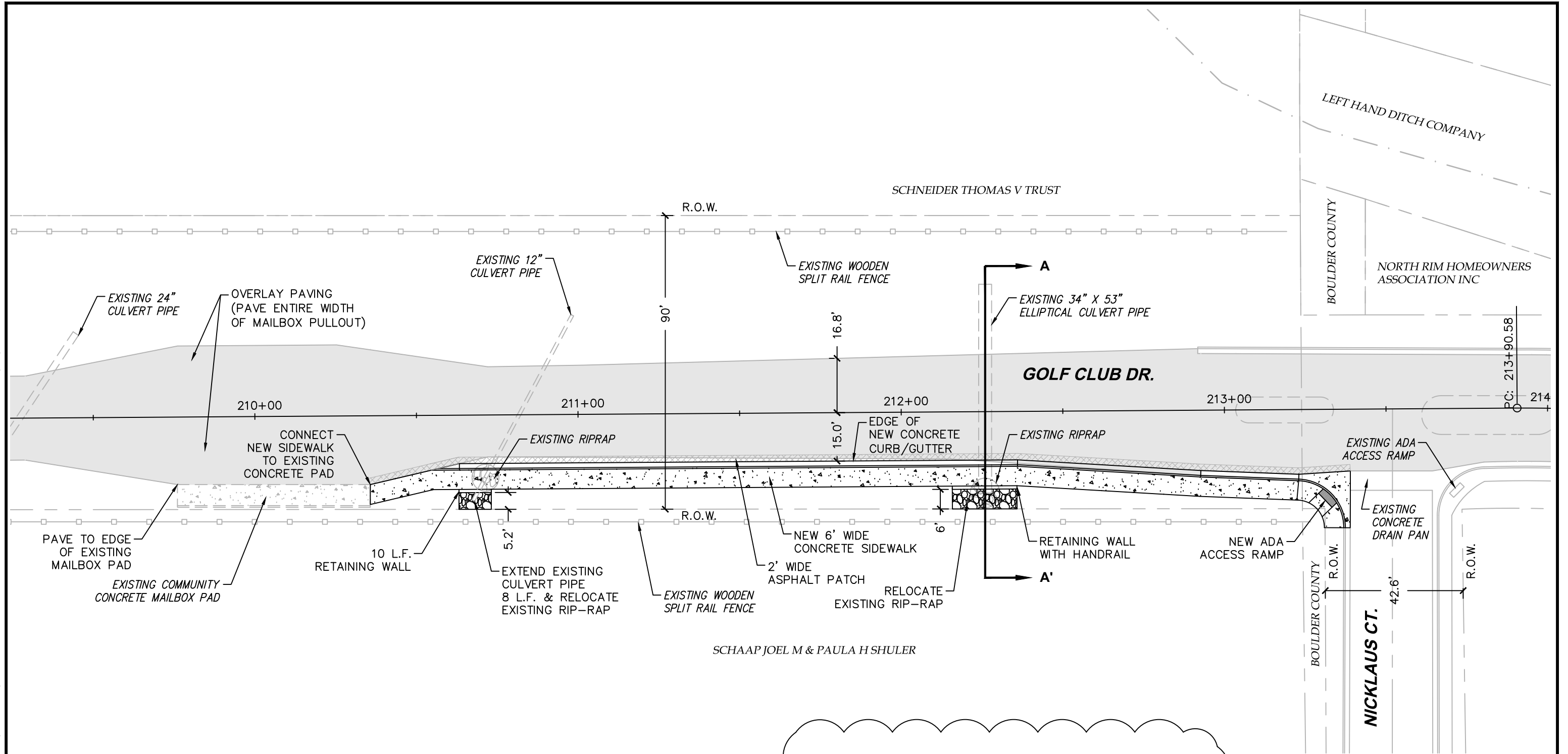


A GUARD RAIL DETAIL
SCALE: 1"=20'



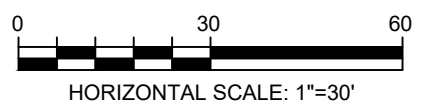
BID-SET	<p>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</p>	NO.	DATE	REVISION DESCRIPTION:	<p>BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION</p>	LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING	
		DESIGNED: DD	CAD/C3D: RL	CHECKED: DD		DATE: 11/30/2020	GOLF CLUB DRIVE-GUARDRAIL DETAIL
					PROJECT NO: RS-00-021		SHEET NO: 17

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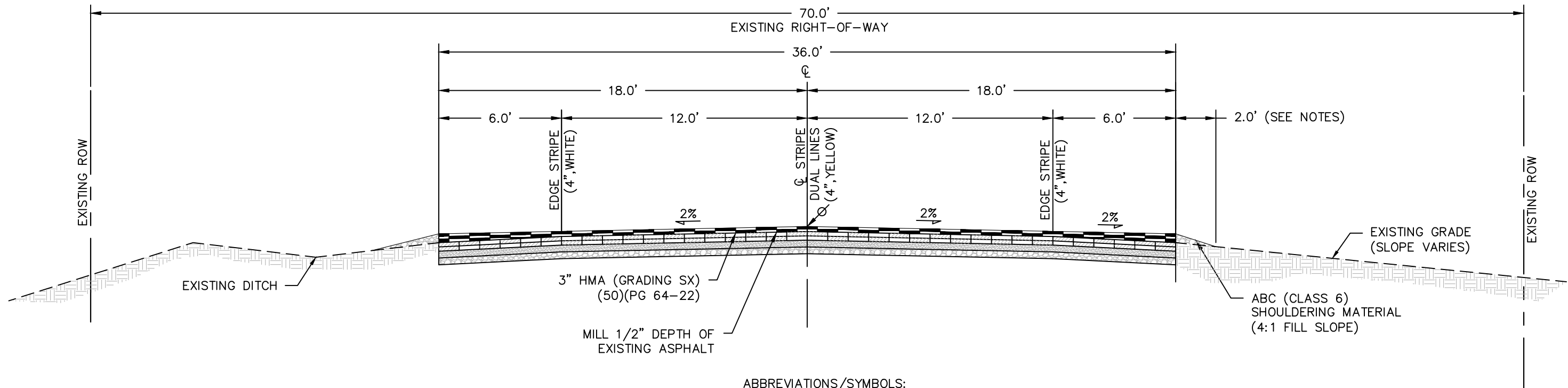
THE SIDEWALK LAYOUT SHOWN ON THIS SHEET IS PRELIMINARY AND SUBJECT TO CHANGE PENDING THE COMPLETION OF A TOPOGRAPHIC SURVEY.

FINAL ADJUSTMENTS WILL BE MADE TO THIS LAYOUT PRIOR TO THE ISSUE OF FINAL CONSTRUCTION DRAWINGS.



BID-SET	CALL UTILITY NOTIFICATION CENTER OF COLORADO	NO.	DATE	REVISION DESCRIPTION:		BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION	LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING		
	CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES						DESIGNED: DD	CAD/C3D: RL	CHECKED: DD

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ABBREVIATIONS/SYMBOLS:

HMA	HOT MIX ASPHALT
⊕	CRITICAL DESIGN POINT (HOLD ELEVATION)

NOTE:

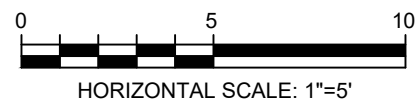
- SEE NOTE #19 OF GENERAL NOTES FOR STRIPING AND PAVEMENT MARKINGS.

PROPOSED ROADWAY SECTION - FAIRWAYS DRIVE

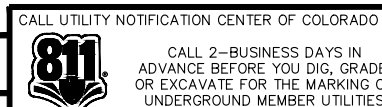
SCALE: 1"=5'

STA: 0+00.00 TO 19+50.48

(NIWOT ROAD TO THE LEFTHAND VALLEY RESERVOIR OUTLET)



BID-SET



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

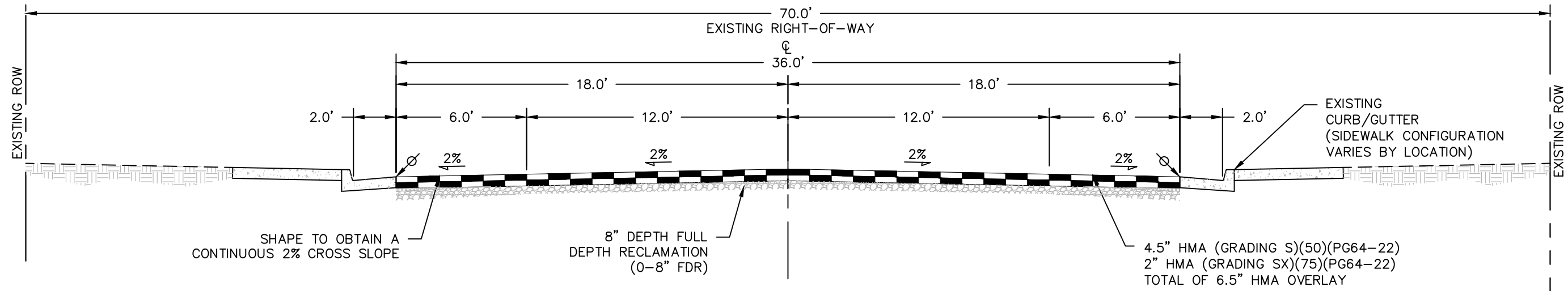
NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
 DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
TYPICAL SECTIONS-FAIRWAYS DR (1)
 PROJECT NO: RS-00-021 SHEET NO: 19

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ABBREVIATIONS/SYMBOLS:

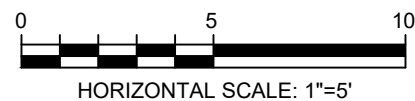
HMA	HOT MIX ASPHALT
⊕	CRITICAL DESIGN POINT (HOLD ELEVATION)

NOTE:
1. FULL DEPTH RECLAMATION IS 8" DEEP.

PROPOSED ROADWAY SECTION - FAIRWAYS DRIVE

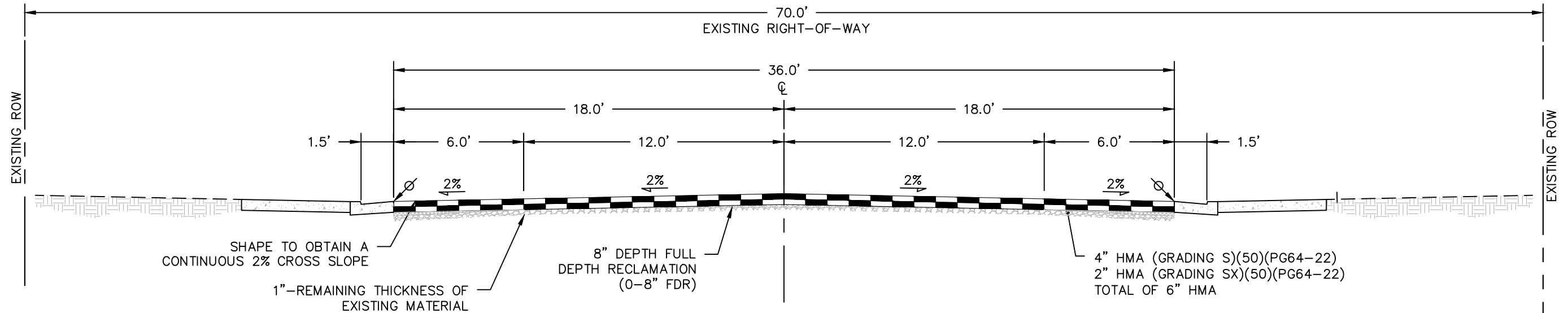
SCALE: 1"=5'

STA: 19+50.48 TO 54+19.42
(LEFTHAND VALLEY RESERVOIR OUTLET TO 50' SOUTH OF NIBLICK ROAD)



BID-SET	CALL UTILITY NOTIFICATION CENTER OF COLORADO	811	CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:		BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION	DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020	LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
	TYPICAL SECTIONS-FAIRWAYS DR (2)	PROJECT NO: RS-00-021	SHEET NO: 20											

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ABBREVIATIONS/SYMBOLS:

HMA	HOT MIX ASPHALT
⊕	CRITICAL DESIGN POINT (HOLD ELEVATION)

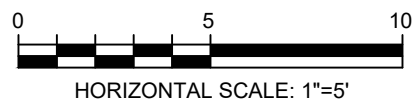
NOTES:

- FULL DEPTH RECLAMATION IS 8" DEEP.
- REMOVE 6" OF RECLAIMED MATERIAL.

PROPOSED ROADWAY SECTION - NIBLICK DRIVE

SCALE: 1"=5'

STA: 100+00.00 TO 135+01.42
(FAIRWAYS DRIVE TO GOLF COURSE)



BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

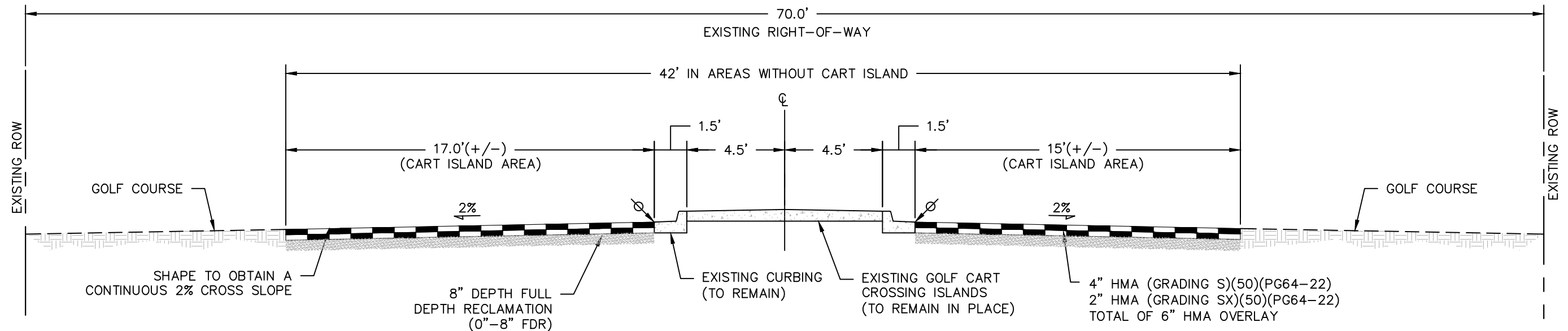
NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
TYPICAL SECTIONS-NIBLICK DRIVE (1)
PROJECT NO: RS-00-021 SHEET NO: 21

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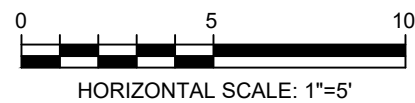
ABBREVIATIONS/SYMBOLS:

HMA	HOT MIX ASPHALT
∅	CRITICAL DESIGN POINT (HOLD ELEVATION)


PROPOSED ROADWAY SECTION - NIBLICK DRIVE

SCALE: 1"=5'

STA: 135+01.42 TO 141+12.63



BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

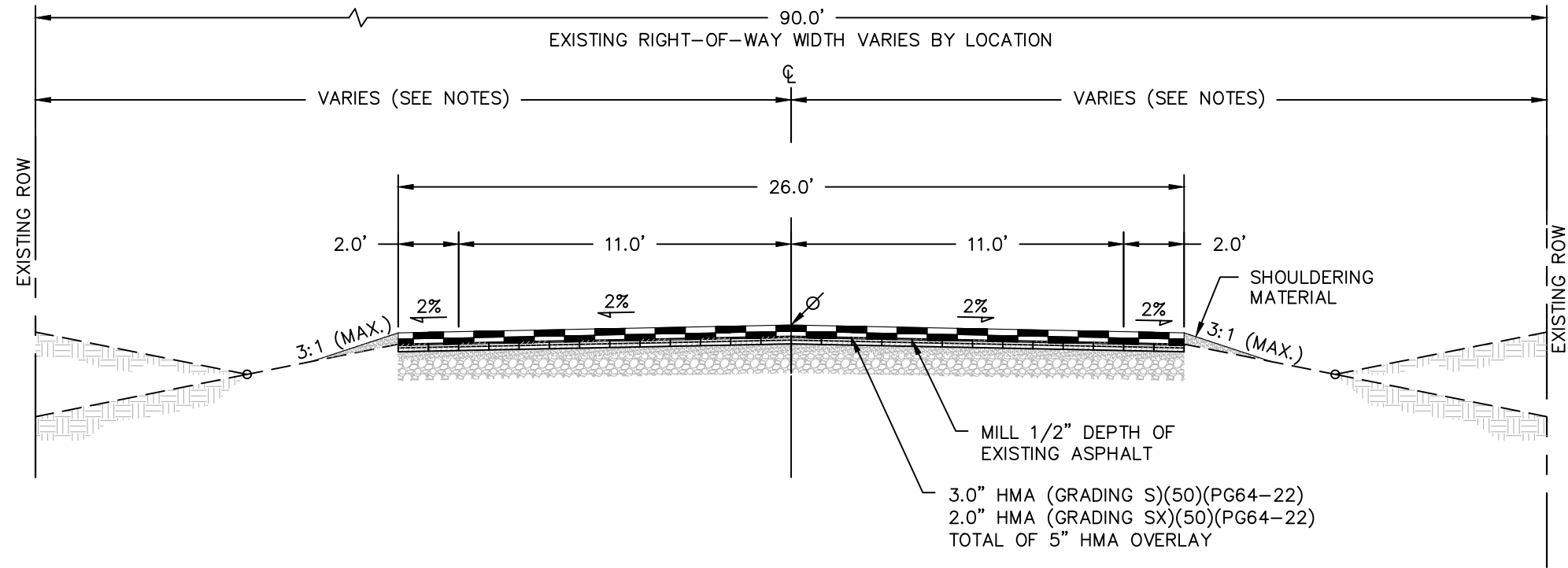


BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION

DESIGNED: DD	CAD/C3D: RL	CHECKED: ##	DATE: 11/30/2020
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LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING	
TYPICAL SECTIONS-NIBLICK DRIVE (2)	
PROJECT NO: RS-00-021	SHEET NO: 22

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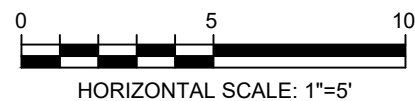
NOTES:
 1. EXISTING ROAD IS NOT CENTERED IN THE RIGHT-OF-WAY.

PROPOSED ROADWAY SECTION - GOLF CLUB DRIVE

SCALE: 1"=5'

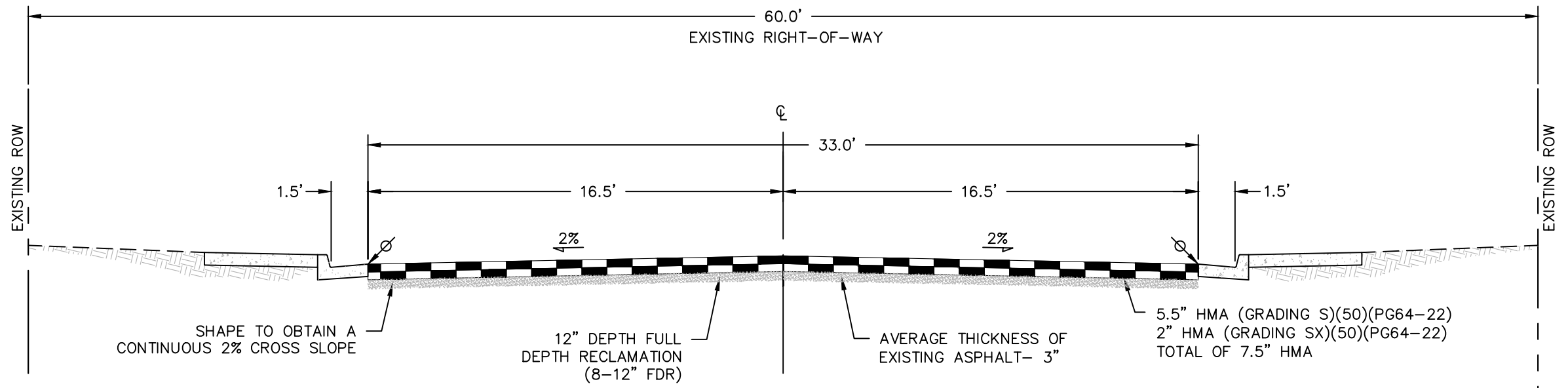
STA: 200+00.00 TO 213+90.58
 (NIWOT ROAD TO JUST SOUTH OF NICKLAUS CT.)

STA: 235+32.78 TO STA: 246+20.64
 (GOLF COURSE TO 50' SOUTH OF NIBLICK RD.)



BID-SET	CALL UTILITY NOTIFICATION CENTER OF COLORADO	NO.	DATE	REVISION DESCRIPTION:		BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION			LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING	
	CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	REVISIONS:					DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020

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ABBREVIATIONS/SYMBOLS:

HMA	HOT MIX ASPHALT
⊕	CRITICAL DESIGN POINT (HOLD ELEVATION)

- NOTES:
- FULL DEPTH RECLAMATION DEPTH IS 12".
 - REMOVE 7.5" OF RECLAIMED MATERIAL.

PROPOSED ROADWAY SECTION - GOLF CLUB DRIVE

SCALE: 1"=5'

STA: 213+90.58 TO 235+32.78
(SOUTH OF NICKLAUS CT. TO GOLF COURSE)

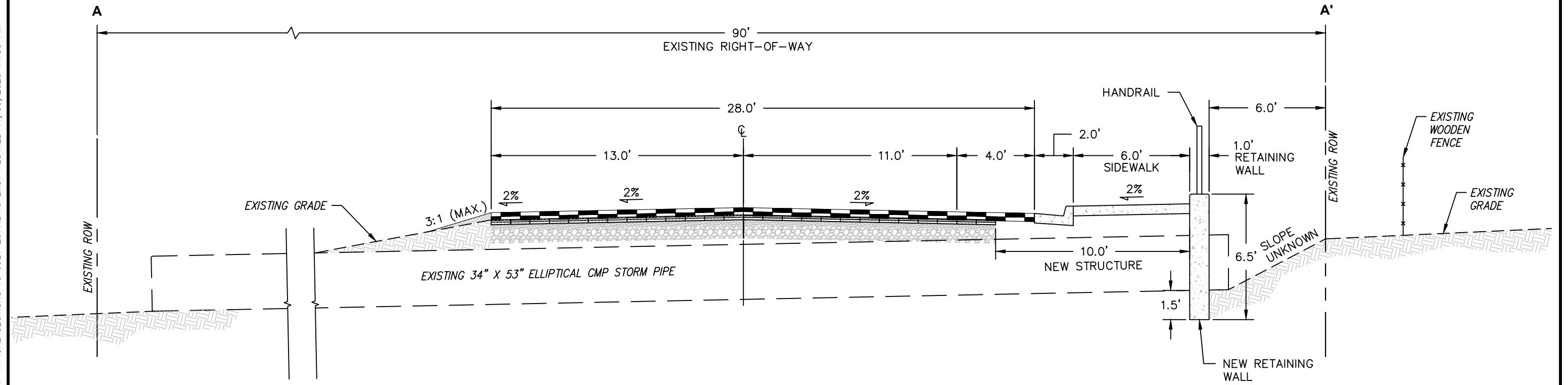


BID-SET	CALL UTILITY NOTIFICATION CENTER OF COLORADO	811	CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:		BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION	LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
	DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020	PROJECT NO: RS-00-021	SHEET NO: 24				

C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-TYPICAL SECTIONS 19 JULY 2017.DWG LAST PLOTTED 11/30/2020 11:53 AM

THE SIDEWALK LAYOUT SHOWN ON THIS SHEET IS PRELIMINARY AND SUBJECT TO CHANGE PENDING THE COMPLETION OF A TOPOGRAPHIC SURVEY.

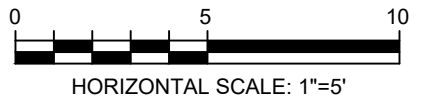
FINAL ADJUSTMENTS WILL BE MADE TO THIS LAYOUT PRIOR TO THE ISSUE OF FINAL CONSTRUCTION DRAWINGS.



PROPOSED SIDEWALK - GOLF CLUB DRIVE (SECTION A-A')

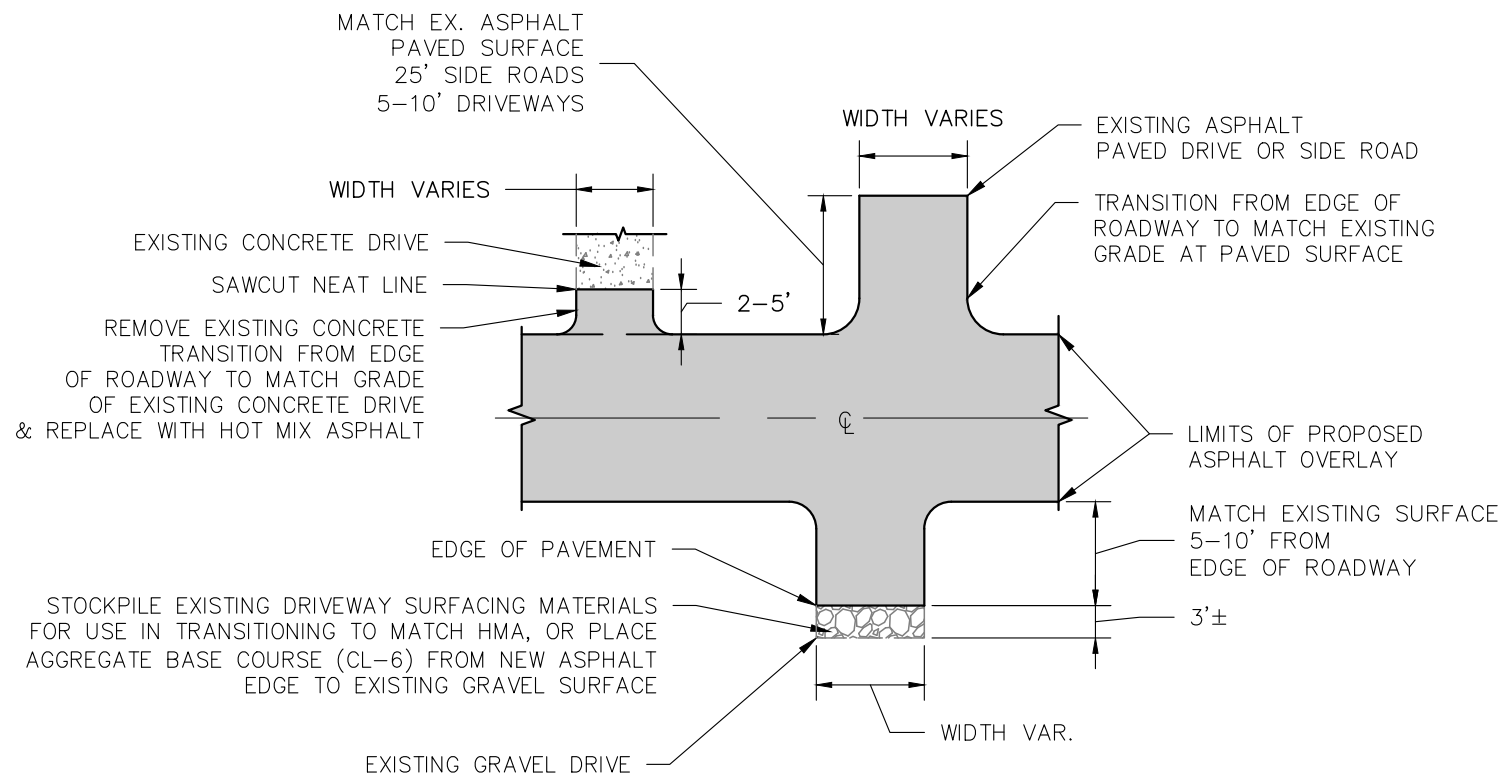
SCALE: 1"=5'

- NOTES:
- EXISTING GRADES TO BE DETERMINED WITH FIELD SURVEY.
 - PIPE SLOPE AND GROUND ELEVATIONS ARE APPROXIMATE.



BID-SET	CALL UTILITY NOTIFICATION CENTER OF COLORADO	811	CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:		BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION	LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING		
	DESIGNED: DD	CAD/C3D: RL	CHECKED: DD	DATE: 11/30/2020	GOLF CLUB DR-SECTION A-A'				PROJECT NO: RS-00-021	SHEET NO: 25		

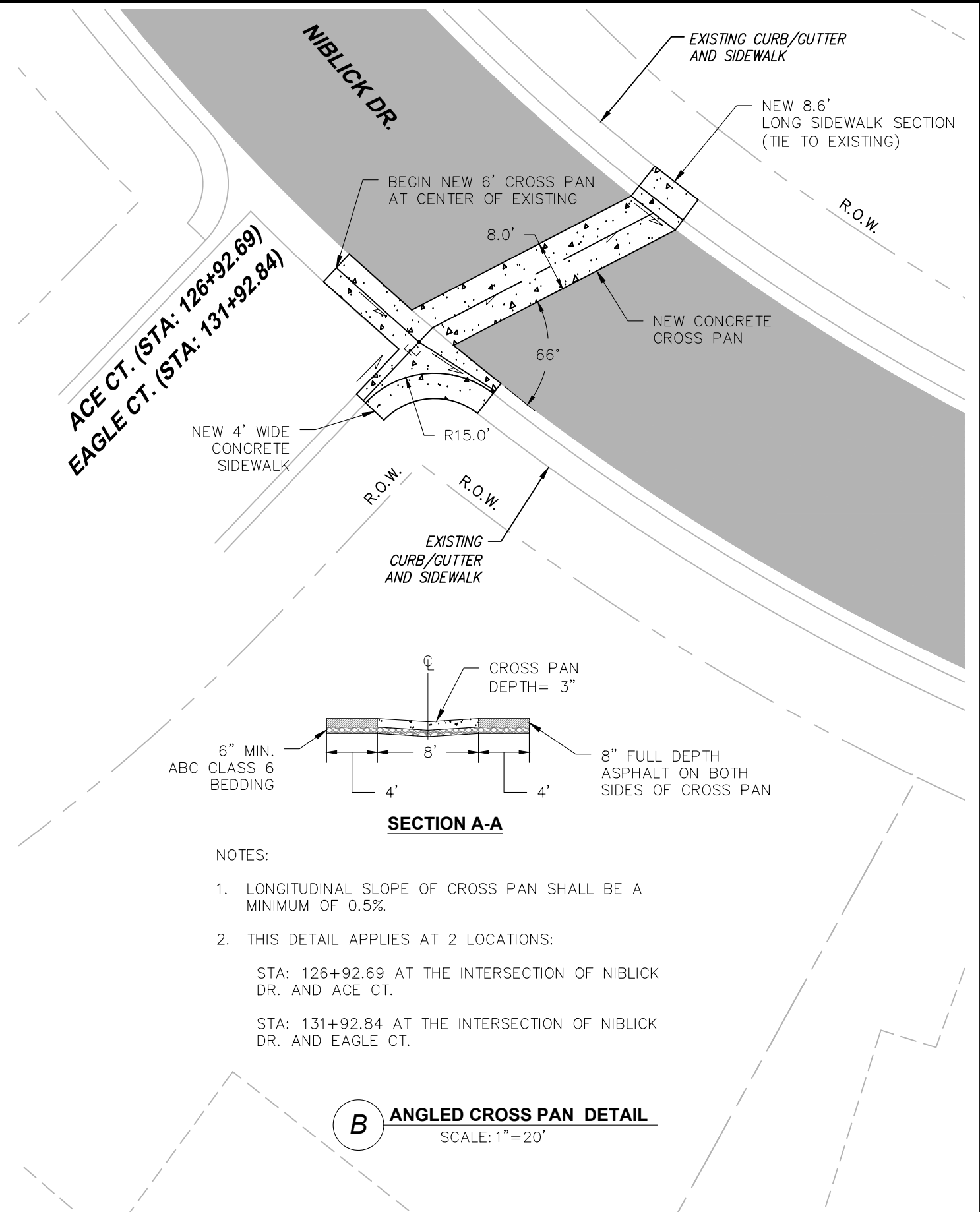
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LEGEND:

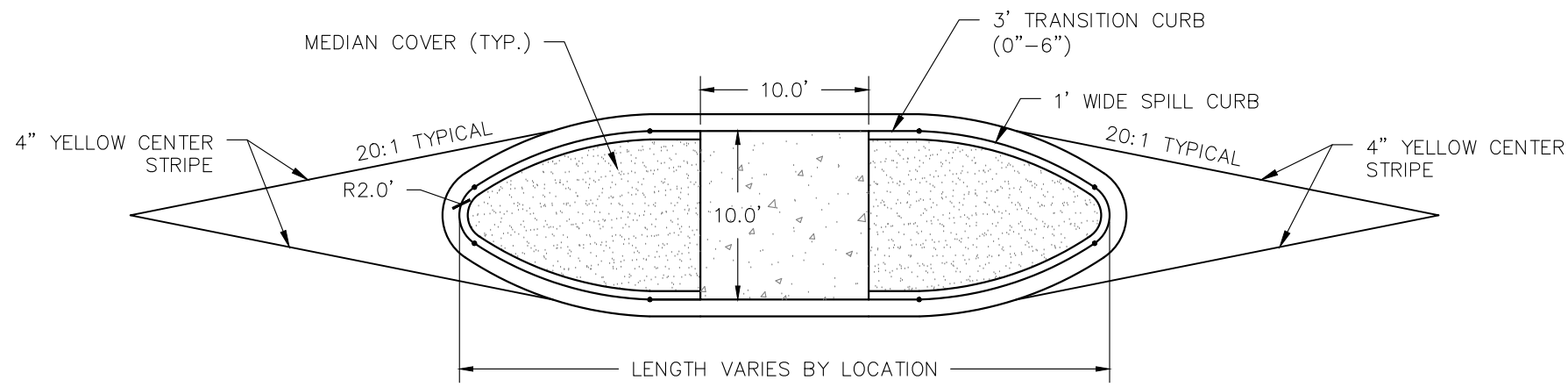
	PROPOSED ASPHALT OVERLAY
	EXISTING GRAVEL DRIVEWAY
	EXISTING CONCRETE DRIVEWAY

A **APPROACH DETAIL**
N.T.S.

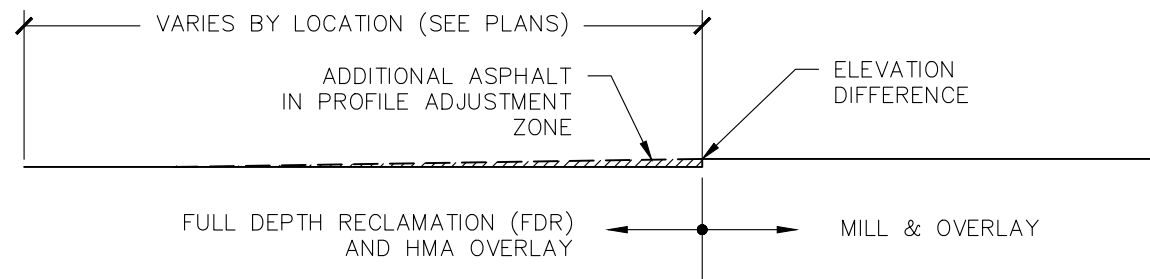


B **ANGLED CROSS PAN DETAIL**
SCALE: 1"=20'

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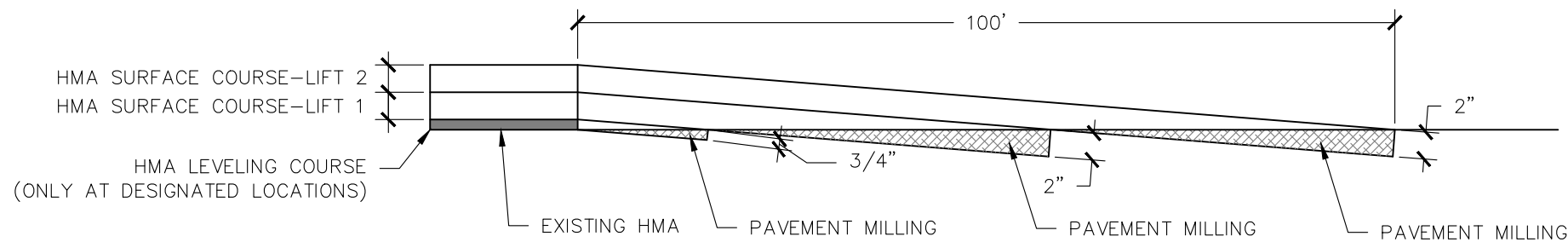


C EXISTING-GOLF CART CROSSING DETAIL
SCALE: 1"=10'

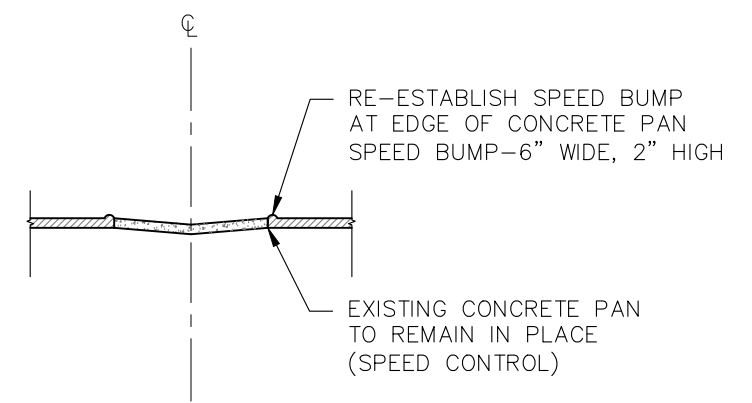


D PROFILE ADJUSTMENT DETAIL
N.T.S.

SPEED DIP/BUMP LOCATIONS	STATION
FAIRWAYS DRIVE	31+51.90
	38+40.44
NIBLICK DRIVE	123+39.10



E HMA TRANSITION MILLING DETAIL
N.T.S.



F SPEED DIP/BUMP DETAIL
SCALE: 1"=10'

C:\AUTOCAD\PROJECTS\LAKE VALLEY ESTATES\PAVING\PLAN SET\LAKE VALLEY-SWMP GREATER THAN 1 ACRE 19 NOV 2020.DWG LAST PLOTTED 11/30/2020 11:53 AM

SITE DESCRIPTION

THE CONTRACTOR SHALL COMPLY WITH ALL CDOT CONTRACTUAL REQUIREMENTS AND ALL REQUIREMENTS ASSOCIATED WITH THE CDPS-SCP ON THIS PROJECT. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL UPDATE TO REFLECT CURRENT PROJECT SITE CONDITIONS.

A. PROJECT SITE LOCATION:

THE PROJECT SITE IS LOCATED WITHIN THE LAKE VALLEY ESTATES/NORTH RIM SUBDIVISION, IN UNINCORPORATED BOULDER COUNTY, COLORADO.

THE LAKE VALLEY SUBDIVISION IS LOCATED JUST SOUTH OF NIWOT ROAD, APPROXIMATELY 1.5 MILES EAST OF STATE HIGHWAY 7 (NORTH FOOTHILLS HIGHWAY).

LOCATION OR ADDRESS OF CONSTRUCTION OFFICE: NO ON-SITE CONSTRUCTION OFFICE IS PLANNED FOR THIS PROJECT.

B. PROJECT SITE DESCRIPTION:

THIS CONSTRUCTION SITE IS LOCATED WITH AN EXISTING SUBDIVISION WHICH WAS ORIGINALLY PLATTED IN SEVERAL FILINGS, BEGINNING IN 1967.

WITH THIS CONSTRUCTION PROJECT, THE COUNTY WILL BE CONDUCTING ROUTINE ROAD MAINTENANCE ON THE EXISTING COMMUNITY USE ROADS FOUND WITHIN THE SUBDIVISION. ROUTINE ROAD MAINTENANCE WILL INCLUDE THE FULL DEPTH RECLAMATION OF THE EXISTING ASPHALT ROADWAYS, MILLING OF EXISTING ASPHALT, PLACEMENT OF NEW HOT MIX ASPHALT (HMA), AND RE-STRIPING OF THE PAVEMENT. A NEW GUARDRAIL WILL BE INSTALLED OVER AND AROUND THE EXISTING BOX CULVERT LOCATED ON GOLF CLUB ROAD.

NEW CONSTRUCTION WILL INCLUDE THE INSTALLATION OF A 6' WIDE CONCRETE SIDEWALK THAT IS APPROXIMATELY 300 FEET LONG WHICH WILL ALLOW RESIDENTS WHO LIVE ON THE EASTERN SIDE OF THE SUBDIVISION TO WALK ALONG THE WEST SIDE OF GOLF CLUB ROAD & NICKLAUS CT. IN ORDER TO ACCESS A COMMUNITY MAILBOX.

NIBLICK DRIVE WILL RECEIVE SOME MINOR DRAINAGE IMPROVEMENTS THAT CONSIST OF 2 NEW CONCRETE DRAIN PANS AND ROUGHLY 300 L.F. OF NEW 6" HIGH CURB/GUTTER. THE DRAIN PANS ARE INTENDED TO REDUCE STORMWATER RUNOFF ON THE SOUTHERN SIDE OF THE ROADWAY WHICH HAS BEEN A PROBLEM FOR THE RESIDENTS OVER THE PAST SEVERAL YEARS.

CONSTRUCTION ACTIVITIES WILL INCLUDE:

- MILLING OF EXISTING ASPHALT
- INSTALLATION OF NEW GUARDRAIL TO REPLACE EXISTING GUARDRAIL AROUND AN EXISTING BOX CULVERT
- GRADING FOR THE NEW SIDEWALK AND CURB AND GUTTER
- ASPHALT REMOVAL AND EXCAVATION FOR THE NEW CONCRETE DRAIN PANS
- PAVING OPERATIONS WILL BE THE FINAL STEP OF CONSTRUCTION ON THIS PROJECT.

C. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:

PROJECT SEQUENCING:

- INSTALL ALL STORMWATER BMP'S BEFORE ANY WORK BEGINS
- CLEARING AND GRUBBING OF THE PROPOSED SIDEWALK AREAS
- SAW AND REMOVE EXISTING CONCRETE AND ASPHALT
- GRADING OF THE PROPOSED SIDEWALK AND CURB/GUTTER AREAS
- FORM NEW CONCRETE PANS AND CURB/GUTTERS AND SIDEWALKS
- POUR CONCRETE
- PAVEMENT SURFACE MILLING ON AREAS OF ROADWAY THAT CALL FOR MILLING
- FULL DEPTH RECLAMATION OF ASPHALT SURFACE AND EXISTING SUBGRADE
- PAVING OPERATIONS - PLACE NEW HOT MIX ASPHALT ON ALL PLANNED COMMUNITY USE ROADWAYS
- STRIPING OF NEW PAVEMENT

D. ACRES OF DISTURBANCE:

- TOTAL AREA OF CONSTRUCTION SITE (LOC (PERMITTED AREA): 12 ACRES
- TOTAL AREA OF PROPOSED DISTURBANCE (LDA): 8.15 ACRES
- TOTAL AREA OF SEEDING: 0.04 ACRES (1866 SQ. FT.)
- TOTAL AREA OF PRE-PROJECT IMPERVIOUS SURFACE: 499,198 SQ. FT.
- TOTAL AREA OF FINAL IMPERVIOUS SURFACE: 501,575 SQ. FT.

E. EXISTING SOIL DATA:

USDA SOIL TYPES FOR THIS PROJECT:

- NIBLICK DR. (DRAIN PANS and SIDEWALK) - ReD - RENO HILL LOAM
- GOLF CLUB DR. (GUARDRAIL) - LoB - LONGMONT CLAY
- GOLF CLUB DR. & NICKLAUS CT. (SIDEWALK) - VaB - VALMONT CLAY LOAM

F. EXISTING VEGETATION, INCLUDING PERCENT COVER:

DURING DESIGN THE SWMP ADMINISTRATOR FOR DESIGN IN CONSULTATION WITH THE ENGINEER WILL DETERMINE IF THE SWMP ADMINISTRATOR FOR DESIGN OR THE SWMP ADMINISTRATOR FOR CONSTRUCTION WILL CONDUCT THE VEGETATION TRANSECTS AS OUTLINED IN CHAPTER 4.11.2 OF THE CDOT'S EROSION CONTROL AND STORMWATER QUALITY GUIDE.

[A SURVEY INCLUDING GENERAL DESCRIPTION OF EXISTING VEGETATION SHALL BE CONDUCTED BY THE SWMP ADMINISTRATOR FOR CONSTRUCTION PRIOR TO ANY GROUND DISTURBANCE ON THE PROJECT. THE MANAGER SHALL PHOTO-DOCUMENT EXISTING VEGETATION WHERE ALL WORK WILL BE OCCURRING. THE MANAGER SHALL ALSO PERFORM THE VEGETATION SURVEY TRANSECT(S) INCLUDING PHOTO DOCUMENTATION AS OUTLINED IN CHAPTER 4.11.2 OF CDOT'S EROSION CONTROL AND STORMWATER QUALITY GUIDE.]

[OR]

[A SURVEY INCLUDING GENERAL DESCRIPTION OF EXISTING VEGETATION SHALL BE CONDUCTED BY THE SWMP ADMINISTRATOR FOR DESIGN PRIOR TO ANY GROUND DISTURBANCE ON THE PROJECT. THE SWMP ADMINISTRATOR FOR DESIGN SHALL PHOTO-DOCUMENT EXISTING VEGETATION WHERE ALL WORK WILL BE OCCURRING. THE SWMP ADMINISTRATOR FOR DESIGN SHALL ALSO PERFORM THE VEGETATION SURVEY TRANSECT(S) INCLUDING PHOTO DOCUMENTATION AS OUTLINED IN CHAPTER 4.11.2 OF CDOT'S EROSION CONTROL AND STORMWATER QUALITY GUIDE.]

PRE-CONSTRUCTION DATE OF SURVEY: _____ %DENSITY: _____

DESCRIPTION OF EXISTING VEGETATION:
MAP OR TABLE SHOWING TRANSECT LOCATIONS IN SWMP TAB 17:

POST-CONSTRUCTION DATE OF SURVEY: _____ %DENSITY: _____

DESCRIPTION OF EXISTING VEGETATION: _____ DATE OF CDPS-SCP CLOSURE: _____
MAP OR TABLE SHOWING TRANSECT LOCATIONS IN SWMP TAB 17:
[TRANSECT FORM IS LOCATED ON CDOT LANDSCAPE ARCHITECTURE WEBSITE]

G. POTENTIAL POLLUTANTS SOURCES: SEE FIRST CONSTRUCTION ACTIVITIES UNDER POTENTIAL POLLUTANT SOURCES. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL PREPARE A LIST OF ALL POTENTIAL POLLUTANTS AND THEIR LOCATIONS IN ACCORDANCE WITH SUBSECTION 107.25.

H. RECEIVING WATER:

• OUTFALL LOCATIONS:

DRY CREEK OUTFALL IS BOULDER RESERVOIR. THE LEFT HAND VALLEY DITCH OUTLET, OUTFALLS TO LEFT HAND CREEK (TO THE NORTH).

• NAMES OF IMMEDIATE RECEIVING WATER(S) ON SITE: DRY CREEK, LEFT HAND VALLEY DITCH OUTLET

• DRY CREEK HAS 303D IMPAIRED DESIGNATION (SOURCE: CDPHE)

UNNAMED STREAM BED THAT IS LOCATED SOUTH OF THE WORK COVERED IN THIS SWMP, IS ALSO DESIGNATED AS 303D IMPAIRED (SOURCE: CDPHE)

• ULTIMATE RECEIVING WATER(S): DRY CREEK RECEIVING WATER IS BOULDER RESERVOIR. THE LEFT HAND VALLEY DITCH OUTLET, RECEIVING WATER IS LEFT HAND CREEK (TO THE NORTH).

• HORIZONTAL DISTANCE TO NEAREST ULTIMATE RECEIVING WATER FROM PROJECT:
DRY CREEK= 6392 L.F.
LEFT HAND VALLEY DITCH OUTLET= 5704 L.F.

DESCRIPTION OF ALL STREAM CROSSINGS LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY:



N/A - THERE ARE NO STREAM CROSSINGS WITHIN THE CONSTRUCTION SITE BOUNDARY.

I. NON-STORMWATER DISCHARGES:

DISCHARGE DESCRIPTION	LOCATION (SITE MAP #)	METHOD STATEMENT (LOCATION)
DEWATERING*	N/A	
UNCONTAMINATED SPRING	N/A	
CONCRETE WASH WATER (IN-GROUND WASHOUT STRUCTURE)	IN-GROUND N/A - USE MOBILE	PORTABLE WASHOUT
LANDSCAPE IRRIGATION RETURN FLOWS	N/A	
EMERGENCY FIRE FIGHTING	N/A	
CONCRETE SAW WATER	STATION 126+85 - NIBLICK DR.	COLLECT & DISPOSE
	STATION 131+62 - NIBLICK DR.	COLLECT & DISPOSE
	STATION 131+87 - NIBLICK DR	COLLECT & DISPOSE

ALLOWABLE: REFER TO CDPHE LOW RISK DISCHARGE GUIDANCE DOCUMENT OF UNCONTAMINATED GROUNDWATER TO LAND.
[HTTPS://WWW.COLORADO.GOV/PACIFIC/SITES/DEFAULT/FILES/WQ%20LOW%20RISK%20GW.PDF](https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.PDF)

*IF GROUND WATER DOES NOT MEET WATER QUALITY STANDARDS FOR RECEIVING WATER A SEPARATE CDPS DEWATERING PERMIT SHALL BE OBTAINED BY THE CONTRACTOR FROM CDPHE IN ACCORDANCE WITH SUBSECTIONS 107.02 AND 107.25.

BID-SET	 <p>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">NO.</th> <th style="width: 5%;">DATE</th> <th style="width: 90%;">REVISION DESCRIPTION:</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISION DESCRIPTION:							 <p>BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: DD</td> <td>CAD/C3D: RL</td> <td>CHECKED: DW</td> <td>DATE: 11/30/2020</td> </tr> </table>	DESIGNED: DD	CAD/C3D: RL	CHECKED: DW	DATE: 11/30/2020	<p>LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING</p> <p>SWMP-GREATER THAN 1 ACRE IMPACT (1)</p> <p>PROJECT NO: RS-00-021 SHEET NO: 28</p>
NO.	DATE	REVISION DESCRIPTION:																
DESIGNED: DD	CAD/C3D: RL	CHECKED: DW	DATE: 11/30/2020															

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2. SITE MAP COMPONENTS:

PRE-CONSTRUCTION

A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES

A MAJORITY OF THIS PROJECT IS WITHIN THE LIMITS OF THE EXISTING ROADWAYS. THERE ARE 3 LOCATIONS WHERE THE LIMITS OF CONSTRUCTION (LOC) EXCEED THE EXISTING PAVED AREA. A NEW SIDEWALK WILL BE INSTALLED @ GOLF CLUB DR. AND NICKLAUS CT. EXISTING SIDEWALK WILL BE REMOVED AND REPLACED ON NIBLICK DR. AND EXISTING METAL GUARDRAIL WILL BE REPLACED IN THE THIRD LOCATION, ON GOLF CLUB DR.

LIMITS OF CONSTRUCTION (LOC) ARE SHOWN ON SWMP SHEETS 32 THRU 37.

B. ALL AREAS OF GROUND SURFACE DISTURBANCE

AREAS THAT WILL HAVE GROUND SURFACE DISTURBANCE INCLUDE:

- NEW SIDEWALKS/CURB/GUTTER- SEE SHEETS 13, 14, 18 & 25
- GUARDRAIL REPLACEMENT - INSTALLATION OF NEW GUARDRAIL POSTS - SEE SHEETS 16 & 17
- FULL DEPTH RECLAMATION PAVING AREAS - THE SUBGRADE OF THE EXISTING ROADWAY WILL BE DISTURBED - SEE SHEET 7

C. AREAS OF CUT AND FILL

THERE IS ONLY 1 LOCATION WHICH WILL RECEIVE FILL. THE NEW SIDEWALK ALONG GOLF CLUB DR. @ THE NICKLAUS COURT INTERSECTION. SEE SHEETS 18 AND 25.

D. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP

SEE SWMP SHEETS 31 TO 37 OF THIS PLAN SET.

E. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP

SEE SWMP SHEETS 31 TO 37 OF THIS PLAN SET.

F. STREAMS, SPRINGS, WETLANDS AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER

THERE ARE NO STREAMS, SPRINGS, WETLANDS OR OTHER STATE WATERS, THAT WILL BE IN CONFLICT WITH THIS RE-PAVING PROJECT.

G. PROTECTION OF TREES, SHRUBS AND CULTURAL RESOURCES

THERE ARE NO TREES, SHRUBS OR CULTURAL RESOURCES THAT WILL BE IN CONFLICT WITH THIS RE-PAVING PROJECT.

H. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE AND RUNOFF DIRECTION

SURFACE FLOW ARROWS ARE SHOWN ON SWMP SHEETS 31 TO 37 OF THIS PLAN SET.

I. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONARY MIXING STATIONS

- NO STOCKPILING WILL BE ALLOWED ON THIS PROJECT
- WASTE MATERIAL WILL BE REMOVED AS IT IS GENERATED
- FUELING LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR

J. LOCATIONS OF ALL STREAM CROSSINGS LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY

THERE ARE NO STREAM CROSSINGS WITHIN THE CONSTRUCTION SITE BOUNDARY.

3. QUALIFIED STORMWATER MANAGERS:

A. SWMP ADMINISTRATOR FOR DESIGN:

NAME/TITLE CONTACT INFORMATION CERTIFICATION #
 DAN DELANGE, P.E. 303-413-7039 DIRECT, DDELANGE@BOULDERCOUNTY.ORG

B. SWMP ADMINISTRATOR FOR CONSTRUCTION: (AS DEFINED IN SUBSECTION 208) THE CONTRACTOR SHALL DESIGNATE A SWMP ADMINISTRATOR FOR CONSTRUCTION UPON CO-PERMITTEE OF THE PERMIT. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL BECOME THE OPERATOR FOR THE SWMP AND ASSUME RESPONSIBILITY FOR ALL DESIGN CHANGES TO THE SWMP IMPLEMENTATION AND MAINTENANCE IN ACCORDANCE TO 208.03, THE SWMP SHALL REMAIN THE PROPERTY OF CDOT. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING AND REVISING SWMP, INCLUDING THE TITLE AND CONTACT INFORMATION. THE ACTIVITIES AND RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL ADDRESS ALL ASPECTS OF THE PROJECT'S SWMP. (UPDATE THE INFORMATION BELOW FOR EACH NEW SWMP ADMINISTRATOR FOR CONSTRUCTION) (COPY OF TECS CERTIFICATION MUST ALSO BE INCLUDED IN THE SWMP.)

NAME/TITLE	CONTACT INFORMATION (PHONE & EMAIL)	CERTIFICATION #	START DATE	ENGINEER APPROVAL

C. EROSION CONTROL INSPECTOR: (AS DEFINED IN SUBSECTION 208) THE CONTRACTOR MAY DESIGNATE AN EROSION CONTROL INSPECTOR. THE EROSION CONTROL INSPECTOR SHALL COMPLETE DUTIES IN ACCORDANCE WITH SUBSECTION 208.03 (C) (COPY OF TECS CERTIFICATION MUST ALSO BE INCLUDED IN THE SWMP.)

NAME/TITLE	CONTACT INFORMATION (PHONE & EMAIL)	CERTIFICATION #	START DATE	ENGINEER APPROVAL

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES

EVALUATE, IDENTIFY, LOCATE AND DESCRIBE ALL POTENTIAL SOURCES OF POLLUTANTS AT THE SITE IN ACCORDANCE WITH SUBSECTION 107.25, CDPS-SCP AND PLACE IN THE SWMP. ALL CONTROL MEASURES RELATED TO POTENTIAL POLLUTANTS SHALL BE SHOWN ON THE SWMP SITE MAP BY THE CONTRACTOR'S SWMP ADMINISTRATOR FOR CONSTRUCTION.

B. OFFSITE DRAINAGE (RUN ON WATER)

DESCRIBE AND RECORD CONTROL MEASURES ON THE SWMP SITE MAP THAT HAVE BEEN IMPLEMENTED TO ADDRESS OFF SITE RUN-ON WATER IN ACCORDANCE WITH SUBSECTION 208.03.

C. VEHICLE TRACKING PAD/VEHICLE TRACKING CONTROL

CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH SUBSECTION 208.04.

D. PERIMETER CONTROL

PERIMETER CONTROL SHALL BE ESTABLISHED AS THE FIRST ITEM ON THE SWMP TO PREVENT THE POTENTIAL FOR POLLUTANTS LEAVING THE CONSTRUCTION SITE BOUNDARIES, ENTERING THE STORMWATER DRAINAGE SYSTEM, OR DISCHARGING TO STATE WATERS. PERIMETER CONTROL SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04

PERIMETER CONTROL MAY CONSIST OF BERMS, SILT FENCE, EROSION LOGS, EXISTING LANDFORMS, OR OTHER CONTROL MEASURES AS APPROVED.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION

THE SWMP IS A LIVING DOCUMENT "LIVING DOCUMENT" THAT IS CONTINUOUSLY REVIEWED AND MODIFIED THROUGHOUT THE CONSTRUCTION PHASING. DURING CONSTRUCTION, THE FOLLOWING ITEMS SHALL BE ADDED, UPDATED, OR AMENDED AS NEEDED BY THE SWMP ADMINISTRATOR FOR CONSTRUCTION IN ACCORDANCE WITH SUBSECTION 208.03. DURING CONSTRUCTION, INDICATE HOW ITEMS THAT HAVE NOT BEEN ADDRESSED DURING DESIGN ARE BEING HANDLED IN CONSTRUCTION. IF ITEMS ARE COVERED IN THE TEMPLATE OR OTHER SECTIONS OF THE SWMP, INDICATE BELOW WHAT SECTION THE DISCUSSION TAKES PLACE.

A. STOCKPILE MANAGEMENT: SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 107.25 AND 208.07

B. CONCRETE WASHOUT: CONCRETE WASH OUT WATER OR WASTE FROM FIELD LABORATORIES AND PAVING EQUIPMENT SHALL BE CONTAINED IN ACCORDANCE WITH SUBSECTION 208.05.

C. SAW CUTTING: SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 107.25, 208.04, 208.05

D. STREET SWEEPING: SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.04

6. INSPECTIONS

A. INSPECTIONS SHALL BE IN ACCORDANCE WITH SUBSECTION 208.03(C).

7. CONTROL MEASURE MAINTENANCE

A. MAINTENANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04(F).

8. RECORD KEEPING

A. RECORDS SHALL BE KEPT IN ACCORDANCE WITH SUBSECTION 208.03(D).

BID-SET	<p style="font-size: 8px;">CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</p>	REVISIONS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION DESCRIPTION:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	REVISION DESCRIPTION:										<p style="font-size: 8px;">BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: DD</td> <td>CAD/C3D: RL</td> <td>CHECKED: DW</td> <td>DATE: 11/30/2020</td> </tr> </table>	DESIGNED: DD	CAD/C3D: RL	CHECKED: DW	DATE: 11/30/2020	<p style="font-size: 8px;">LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING</p> <p style="font-size: 10px; font-weight: bold;">SWMP-GREATER THAN 1 ACRE IMPACT (2)</p> <p style="font-size: 8px;">PROJECT NO: RS-00-021 SHEET NO: 29</p>
NO.	DATE	REVISION DESCRIPTION:																			
DESIGNED: DD	CAD/C3D: RL	CHECKED: DW	DATE: 11/30/2020																		

9. **INTERIM, PERMANENT STABILIZATION AND LONG-TERM STORMWATER MANAGEMENT**

THE CONTRACTOR SHALL COMPLY WITH ALL INTERIM STABILIZATION AND PERMANENT STABILIZATION REQUIREMENTS IN ACCORDANCE WITH SUBSECTION 208.04(E).

A. **SEEDING PLAN**

SEEDING WILL BE REQUIRED FOR AN ESTIMATED 0.04 ACRES OF DISTURBED AREA WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT SURFACED.

THE FOLLOWING TYPES AND RATES SHALL BE USED:

Native Seed Mixes

Samples for Boulder County.

Plains Seed Mix

Below 5,500 Feet Elevation

Common Name	Species Name	Variety	% of Mix	#PLS/ Acre
Side Oats Grama	<i>Bouteloua curtipendula</i>	Vaughn	15%	2.74
Blue Grama	<i>Bouteloua gracilis</i>	Native, Alma, or Hachita	20%	0.84
Buffalograss	<i>Buchloe dactyloides</i>	Native	15%	9.33
Western Wheatgrass	<i>Pascopyrum smithii</i>	Arriba	12.5%	3.96
Western Wheatgrass	<i>Pascopyrum smithii</i>	Native	12.5%	3.96
Little Bluestem	<i>Schizachyrium scoparium</i>	Cimarron or Pastura	13%	1.74
Green Needlegrass	<i>Stipa viridula</i>	Lodorm or Native	12%	2.31
Totals:			100%	24.88

HAND SEWN SEEDING QUANTITIES:

SEEDING RATE=49.76 #PLS/ACRE (2X MACHINE RATE)

TOTAL SEEDING AREA FOR THIS PROJECT IS 0.04 ACRES

TOTAL SEED NEEDED: 2.0 (POUNDS)

B. **SEEDING APPLICATION:** DRILL SEED 0.25 INCH TO 0.5 INCH INTO THE SOIL. IN SMALL AREAS NOT ACCESSIBLE TO A DRILL, HAND BROADCAST OR HYDROSEED AT DOUBLE THE RATE AND RAKE 0.25 INCH TO 0.5 INCH INTO THE SOIL PER SUBSECTION 212. SOIL COMPACTION SHALL BE MINIMIZED FOR AREAS WHERE PERMANENT STABILIZATION WILL BE ACHIEVED THROUGH VEGETATIVE COVER.

C. **MULCHING APPLICATION:** APPLY A MINIMUM OF 2 TONS OF CERTIFIED WEED FREE HAY OR 2 1/2 TONS OF CERTIFIED WEED FREE STRAW PER ACRE AND IN ACCORDANCE WITH SECTION 213, AND MECHANICALLY CRIMP IT INTO THE SOIL IN COMBINATION WITH AN ORGANIC MULCH TACKIFIER.

PRIOR TO WINTER SHUTDOWN OR THE SUMMER SEEDING WINDOW CLOSURE: UNCOMPLETED SLOPES SHALL BE MULCHED WITH 2 TONS OF MULCHING (WEED FREE) PER ACRE, MECHANICALLY CRIMPED INTO THE TOPSOIL IN COMBINATION WITH AN ORGANIC MULCH TACKIFIER IN ACCORDANCE WITH SUBSECTIONS 208 AND 213.

D. **SPECIAL REQUIREMENTS:**

DUE TO HIGH FAILURE RATES, HYDROSEEDING WILL NOT BE ALLOWED FOR PERMANENT STABILIZATION.

E. **SOIL CONDITIONING AND FERTILIZER REQUIREMENTS:** MINIMUM AMENDMENT MATERIAL REQUIREMENTS FOR ALL DISTURBANCES TO RECEIVE SEEDING (NATIVE). ELEVATION: (5,300) FEET

SOIL CONDITIONERS PAID FOR AS ITEM 212-SOIL CONDITIONING (ACRE)			
BIOLOGICAL NUTRIENT ORGANIC BASED FERTILIZER (LBS./ACRES)*	HUMATE (LBS./ACRE)	COMPOST (YD3/ACRE) ALL AREAS < 2:1 1/2 INCH DEPTH	SPRAY-ON AMEDMENT (LBS./ACRE) > 2:1 SLOPES ONLY
300	200	65	3500

*Biological nutrient organic based fertilizer shall not exceed 8-8-8 (N-P-K).

Humate shall be in accordance to 212.02.

F. **SOIL RETENTION COVERING:** ON SLOPES AND DITCHES REQUIRING A BLANKET OR TURF REINFORCEMENT MAT (TRM), THE BLANKET/TRM SHALL BE PLACED IN LIEU OF MULCH AND MULCH TACKIFIER AND PLACED AFTER SEEDING (NATIVE). SEE SWMP SITE MAP FOR BLANKET/TRM LOCATIONS.

G. **PERMANENT STABILIZATION APPLICATION UNDER STRUCTURES:** UNDER STRUCTURES SHADE PATTERNS SHOULD BE CONSIDERED AND THE USE OF MEDIAN COVER MATERIAL (STONE) OR OTHER STABILIZED OPTIONS WITH AN APPROVED PROJECT SPECIAL PROVISION SHOULD BE USED. SEE SWMP SITE MAP FOR LOCATIONS. [THE SWMP ADMINISTRATOR FOR DESIGN SHOULD REVIEW THE SELECTED MATERIAL FOR USE UNDER STRUCTURES WITH THE REGION ENVIRONMENTAL STAFF AND HYDRAULIC ENGINEER]

H. **RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:** PRIOR TO PARTIAL ACCEPTANCE.

- ALL SEEDING AREAS SHALL BE REVIEWED DURING THE 7-DAY INSPECTIONS BY THE SWMP ADMINISTRATOR FOR CONSTRUCTION AND OR EROSION CONTROL INSPECTOR FOR BARE SOILS CAUSED BY SURFACE OR WIND EROSION. BARE AREAS CAUSED BY SURFACE OR GULLY EROSION, BLOWN AWAY MULCH, ETC. SHALL BE RE-GRADED, SEEDING, AND HAVE THE DESIGNATED MULCHING APPLIED AS NECESSARY, AT NO ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR SHALL MAINTAIN SEEDING/MULCH/TACKIFIER/BLANKET/TRM, MOW TO CONTROL WEEDS OR APPLY HERBICIDE TO CONTROL WEEDS IN THE SEEDING AREAS UNTIL PARTIAL ACCEPTANCE OF THE STORMWATER CONSTRUCTION WORK.

I. **LONG TERM STORMWATER MANAGEMENT**

SEE ITEM #18 OF THE SWMP FOR LONG TERM MANAGEMENT PRACTICES TO CONTROL POLLUTANTS IN STORMWATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS ARE COMPLETED.

10. **PRIOR TO PROJECT FINAL ACCEPTANCE :**

- A. PARTIAL ACCEPTANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 107.25 (D), 208.10 AND 214.04. AT THE PARTIAL ACCEPTANCE OF THE PROJECT, IT SHALL BE DETERMINED BY THE SWMP ADMINISTRATOR FOR CONSTRUCTION AND THE ENGINEER WHICH TEMPORARY CONTROL MEASURES SHALL REMAIN UNTIL 70% REVEGETATION IS ESTABLISHED OR WHICH SHALL BE REMOVED.
- B. AT THE END OF THE PROJECT, ALL DITCH CHECKS SHALL EITHER CONSIST OF TEMPORARY EROSION LOGS (OR EQUIVALENT) OR PERMANENT RIPRAP.
- C. ALL STORM DRAINS SHALL BE CLEANED PRIOR TO THE FINAL ACCEPTANCE OF THE PROJECT. WORK SHALL BE INCLUDED IN 202 CLEAN CULVERT.

11. **NARRATIVES:**

CONTROL MEASURE MATRIXES DURING CONSTRUCTION:

- A. CONTROL MEASURE NARRATIVES HAVE BEEN INCLUDED FOR THE CDOT STANDARD SPECIFICATIONS AND STANDARD PLAN M-208 AND M-216 ALONG WITH ANY NON-STANDARD CONTROL MEASURES APPROVED DURING THE DESIGN PROCESS. IF A NON-STANDARD CONTROL MEASURE NOT INCLUDED IN THE SWMP IS PROPOSED AND APPROVED BY THE ENGINEER THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL DO THE FOLLOWING: PLACE AN "X" IN THE COLUMN FOR NON-STANDARD AND COMPLETE A NON-STANDARD CONTROL MEASURE SPECIFICATION AND NARRATIVE COVERING THE WHAT, WHEN, WHERE AND WHY THE CONTROL MEASURE IS BEING USED SHALL BE ADD TO THE SWMP. THE APPROPRIATE "X" SHALL ALSO BE ADDED TO THE IMPLEMENTATION PHASE(S).
- B. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL PLACE AN "X" IN THE COLUMN IN USE ON SITE WHEN THE CONTROL MEASURE HAS BEEN INSTALLED.
- C. A "P" IN THE INITIAL ACTIVITIES COLUMN INDICATES THAT THE CONTROL MEASURE SHALL BE INSTALLED BEFORE CONSTRUCTION ACTIVITY STARTS. LOCATIONS AND QUANTITIES WILL BE DISCUSSED DURING THE ENVIRONMENTAL PRE-CONSTRUCTION CONFERENCE WITH THE REGIONAL WATER POLLUTION CONTROL MANAGER.

STRUCTURAL CONTROL MEASURES THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:



APPLICATION, BMP/CONTROL MEASURE	NARRATIVE	M-STANDARD or "X" for NON-STANDARD	IN USE ON SITE BMP/CONTROL MEASURE TO BE LOCATED BY SWMP ADMINISTRATOR	BMP/CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL CONSTRUCTION (CONTROL MEASURE INSTALLED PRE-CONSTRUCTION)	INTERIM CONSTRUCTION ACTIVITIES	PERMANENT STABILIZATION
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208		X	X	X
Storm Drain Inlet Protection in Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		X	X	X
CULVERT INLET/OUTLET PROTECTION Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.	M-208		X	X	X
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		X	X	
SEDIMENT CONTROL/ SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.	M-208		X	X	
SWEEPING	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	

NON-STRUCTURAL CONTROL MEASURES THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:

EROSION CONTROL DEVICES ARE USED TO LIMIT THE AMOUNT OF SOIL LOSS ON SITE. SEDIMENT CONTROL DEVICES ARE DESIGNED TO CAPTURE SEDIMENT ON THE PROJECT SITE. CONSTRUCTION CONTROLS ARE CONTROL MEASURES RELATED TO CONSTRUCTION ACCESS AND STAGING. CONTROL MEASURE LOCATIONS ARE INDICATED ON THE SWMP SITE MAP.

* USE OF VEGETATIVE BUFFER STRIP REQUIREMENTS. THE CDPHE WATER QUALITY CONTROL DIVISION TECHNICAL MEMORANDUM DATED AUGUST 27, 2015 CLARIFIES THE REQUIREMENTS FOR UTILIZATION OF EXISTING VEGETATION AS A BUFFER TYPE OF SEDIMENT CONTROL MEASURE, WHILE MAINTAINING COMPLIANCE WITH THE CDPHS PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY - CDPHS PERMIT NO. COR4000000. IN GENERAL, THE DIVISION DOES NOT RECOMMEND THAT VEGETATED BUFFERS BE IMPLEMENTED AS A SEDIMENT REMOVAL CONTROL MEASURE FOR RUNOFF FROM DISTURBED AREAS AT CONSTRUCTION SITES, UNLESS IMPLEMENTED AS A "FINISHING" COMPONENT OF A TREATMENT TRAIN COMPRISED OF ADDITIONAL, ADEQUATE UP-GRADIENT CONTROL MEASURES. THE ENTIRE MEMORANDUM CAN BE FOUND AT: [HTTPS://WWW.COLORADO.GOV/PACIFIC/SITES/DEFAULT/FILES/VEGETATIVE%20BUFFER%20MEMO.PDF](https://www.colorado.gov/pacific/sites/default/files/vegetative%20buffer%20memo.pdf)

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BID-SET	 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	CALL UTILITY NOTIFICATION CENTER OF COLORADO	NO.	DATE	REVISION DESCRIPTION:	 BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION	DESIGNED: DD	CAD/C3D: RL	CHECKED: DW	DATE: 11/30/2020	LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
		REVISIONS:						PROJECT NO: RS-00-021	SHEET NO: 30		

APPLICATION, BMP/CONTROL MEASURE	NARRATIVE	M-STANDARD or "X" for NON-STANDARD	IN USE ON SITE	BMP/CONTROL MEASURE TO BE LOCATED BY SWMP ADMINISTRATOR	BMP/CONTROL MEASURE IMPLEMENTATION PHASE		
					INITIAL CONSTRUCTION ACTIVITY (CONTROL MEASURE INSTALLED PRE-CONSTRUCTION)	INTERIM CONSTRUCTION ACTIVITIES	PERMANENT STABILIZATION
CHECK DAM/DITCH CHECK Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208			X	X	X
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PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208			X	X	
SEDIMENT CONTROL/ SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.	M-208			X	X	
SWEEPING	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.				X	X	

12. TABULATION OF STORMWATER QUANTITIES

- A. BMP/CONTROL MEASURE SEDIMENT REMOVAL AND DISPOSAL SHALL BE PAID FOR AS: 208 REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT) AND 208 REMOVAL AND DISPOSAL OF SEDIMENT (LABOR). ALL OTHER BMP/CONTROL MEASURE MAINTENANCE SHALL BE INCLUDED IN THE COST OF THE BMP/CONTROL MEASURE.
- B. IT IS ESTIMATED THAT 40 HOURS OF LABOR, MAY BE REQUIRED FOR MISCELLANEOUS EROSION CONTROL WORK AS DIRECTED BY THE ENGINEER. WORK SHALL BE PAID FOR AS: 203 - LABOR.
- C. ESTABLISHMENT OF SEEDED AREAS SHALL BE PAID FOR AS: 214 - LANDSCAPE MAINTENANCE LUMP SUM, THIS SHALL INCLUDE MOWING, WEED CONTROL, RESEEDING/MULCH/TACKIFIER.

	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
X	202-04002	Clean Culvert	Each			1	1
X	208-00103	Removal and Disposal of Sediment (Labor)	Hour	20	20		40
X	208-00012	Erosion Log (9 Inch)(Type 1)	LF	950			950
X	208-00035	Aggregate Bag (Type 1)	LF	100			100
X	208-00105	Removal and Disposal of Sediment (Equipment)	Hour			10	10
X	208-00106	Sweeping (Sediment Removal)	Hour		20	20	40
X	212-00006	Seeding (Native)	Acre			0.04	0.04
X	212-00032	Soil Conditioning	Acre			0.04	0.04

*It is anticipated that additional BMPs/Control Measures and BMP/Control Measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsection 208.03 and 208.04. **Quantities for all BMPs/Control Measures shown above are estimated, and have been increased for unforeseen conditions and normal BMP/Control Measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

**Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the BMP in the field. The use of the material shall be directed and approved by the Engineer.

13. BIOLOGIC IMPACTS and DEWATERING

A. ENVIRONMENTAL IMPACTS:




- WETLAND IMPACTS: REFER TO OTHER ENVIRONMENTAL PERMITS IN ACCORDANCE WITH SUBSECTION 107.02 AND THE PERMITS CONTAINED IN THE SWMP NOTEBOOK.
- STREAM IMPACTS: REFER TO OTHER ENVIRONMENTAL PERMITS IN ACCORDANCE WITH SUBSECTION 107.02 AND THE PERMITS CONTAINED IN THE SWMP NOTEBOOK.
- THREATENED AND ENDANGERED SPECIES:
- DEWATERING: REFER TO OTHER ENVIRONMENTAL PERMITS IN ACCORDANCE WITH SUBSECTION 107.02 AND THE PERMITS CONTAINED IN THE SWMP NOTEBOOK.

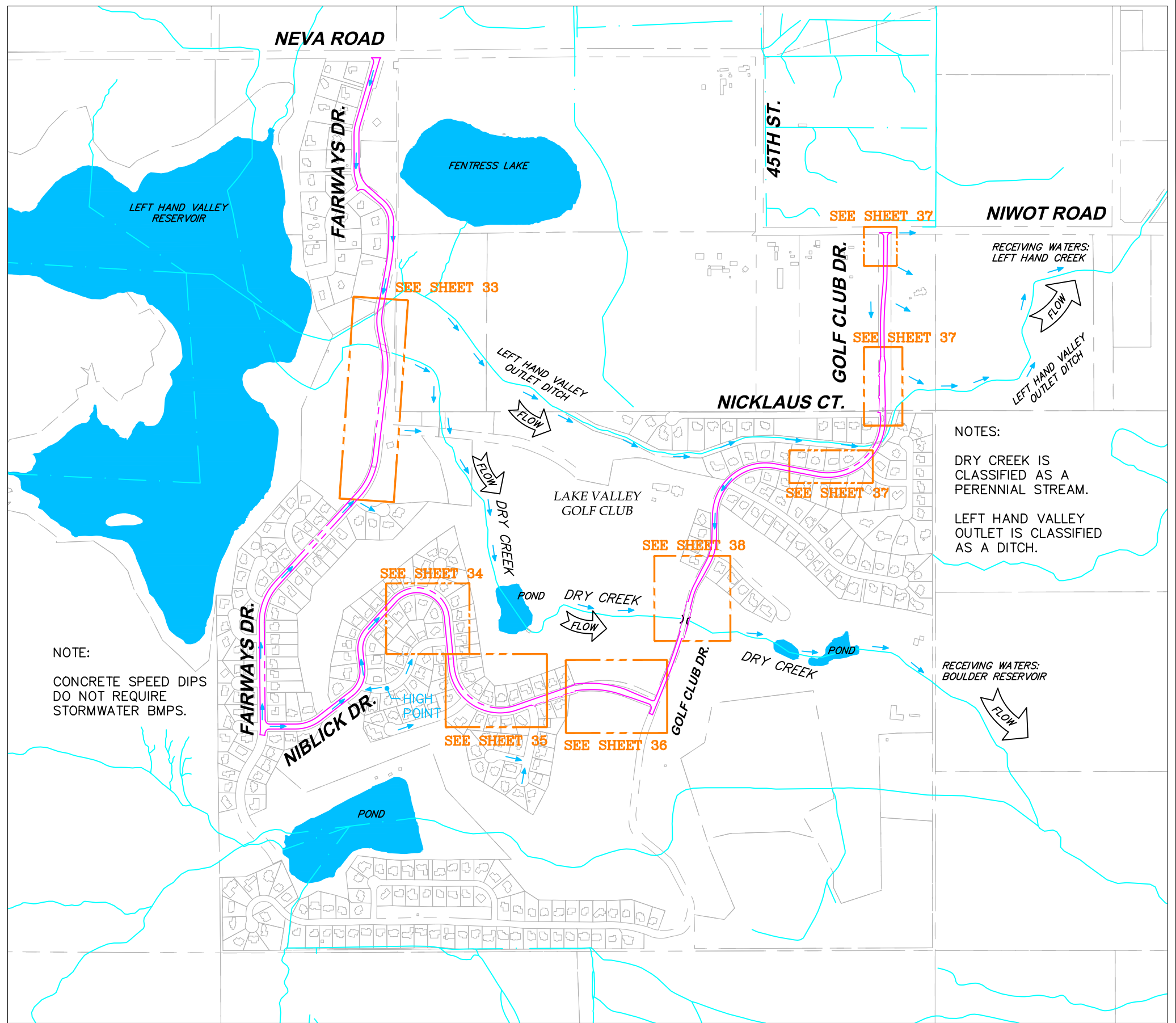
14. NOTES

BID-SET	 CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	REVISIONS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION DESCRIPTION:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	REVISION DESCRIPTION:										 BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION DESIGNED: DD CAD/C3D: RL CHECKED: DW DATE: 11/30/2020	LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING SWMP-GREATER THAN 1 ACRE IMPACT (4) PROJECT NO: RS-00-021 SHEET NO: 31
NO.	DATE	REVISION DESCRIPTION:														


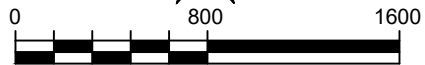
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OVERALL SWMP LEGEND:


-  LIMITS OF CONSTRUCTION
-  SURFACE RUNOFF FLOW ARROW
-  STREAM OR DITCH FLOW DIRECTION




NOTES:
 DRY CREEK IS CLASSIFIED AS A PERENNIAL STREAM.
 LEFT HAND VALLEY OUTLET IS CLASSIFIED AS A DITCH.



 HORIZONTAL SCALE: 1"=800'

BID-SET

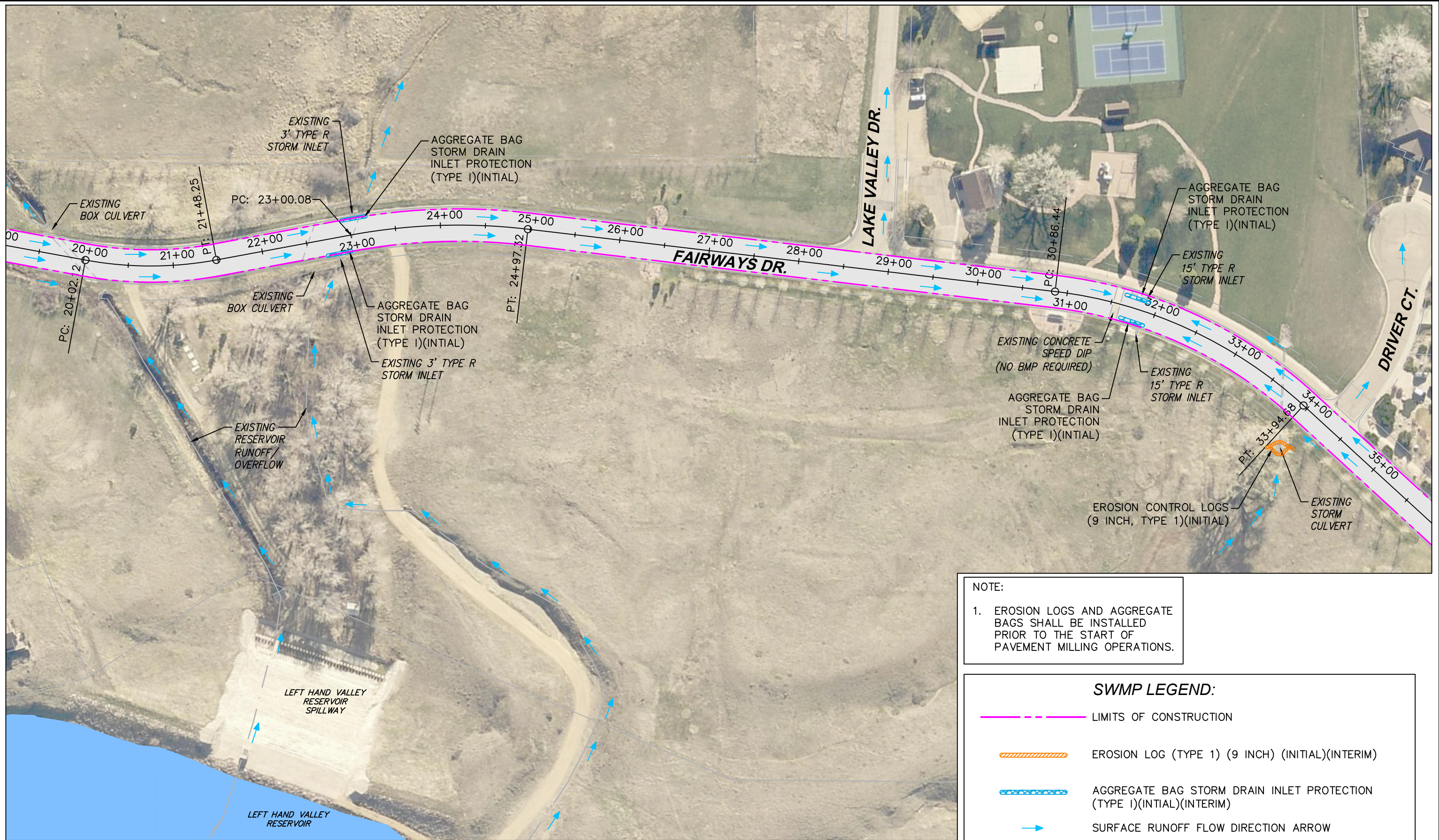
CALL UTILITY NOTIFICATION CENTER OF COLORADO
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION DESCRIPTION:

 **BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION**
 DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
OVERALL-SWMP-SITE PLAN
 PROJECT NO: RS-00-021 SHEET NO: 32

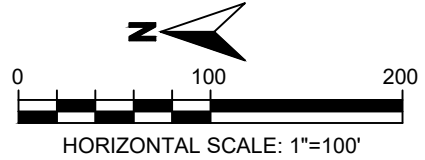
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NOTE:
 1. EROSION LOGS AND AGGREGATE BAGS SHALL BE INSTALLED PRIOR TO THE START OF PAVEMENT MILLING OPERATIONS.

SWMP LEGEND:

- LIMITS OF CONSTRUCTION
- EROSION LOG (TYPE 1) (9 INCH) (INITIAL)(INTERIM)
- AGGREGATE BAG STORM DRAIN INLET PROTECTION (TYPE I)(INITIAL)(INTERIM)
- SURFACE RUNOFF FLOW DIRECTION ARROW



BID-SET

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

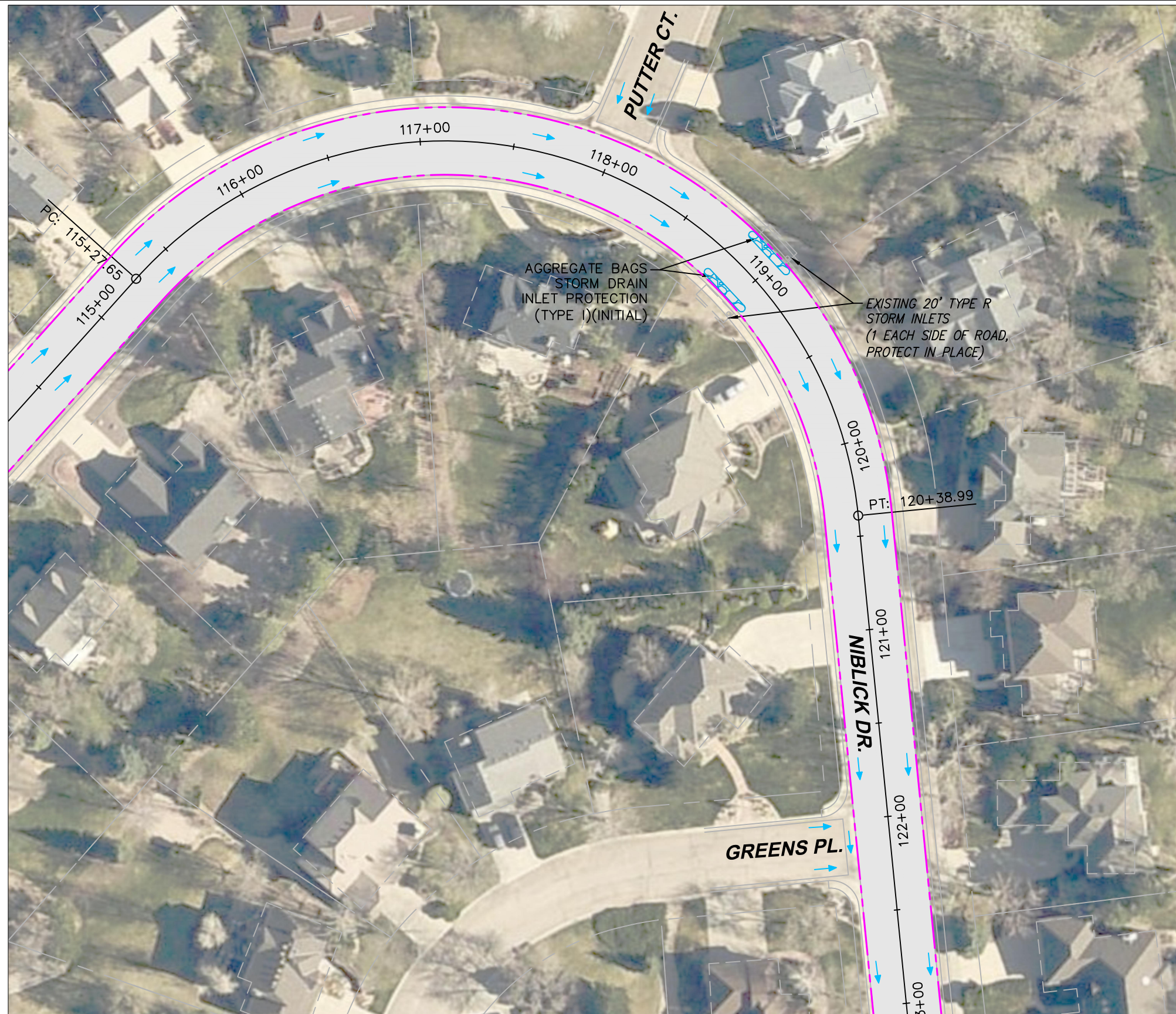
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LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
FAIRWAYS DR - SWMP
 PROJECT NO: RS-00-021 SHEET NO: 33




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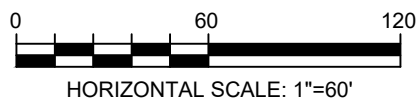


NOTE:

1. EROSION LOGS AND AGGREGATE BAGS SHALL BE INSTALLED PRIOR TO THE START OF PAVEMENT MILLING OPERATIONS.

SWMP LEGEND:

-  LIMITS OF CONSTRUCTION
-  STORM DRAIN INLET PROTECTION-AGGREGATE BAG (TYPE I)(INITIAL)(INTERIM)
-  SURFACE RUNOFF FLOW DIRECTION ARROW



BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO



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

NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION

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LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING

NIBLICK DR - SWMP (1)

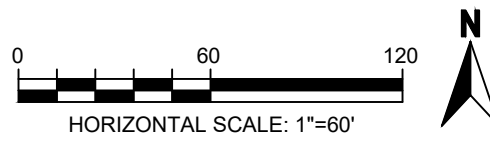
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SWMP LEGEND:

- LIMITS OF CONSTRUCTION
- LDA LIMITS OF DISTURBED AREA
- SURFACE RUNOFF FLOW DIRECTION ARROW



BID-SET

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

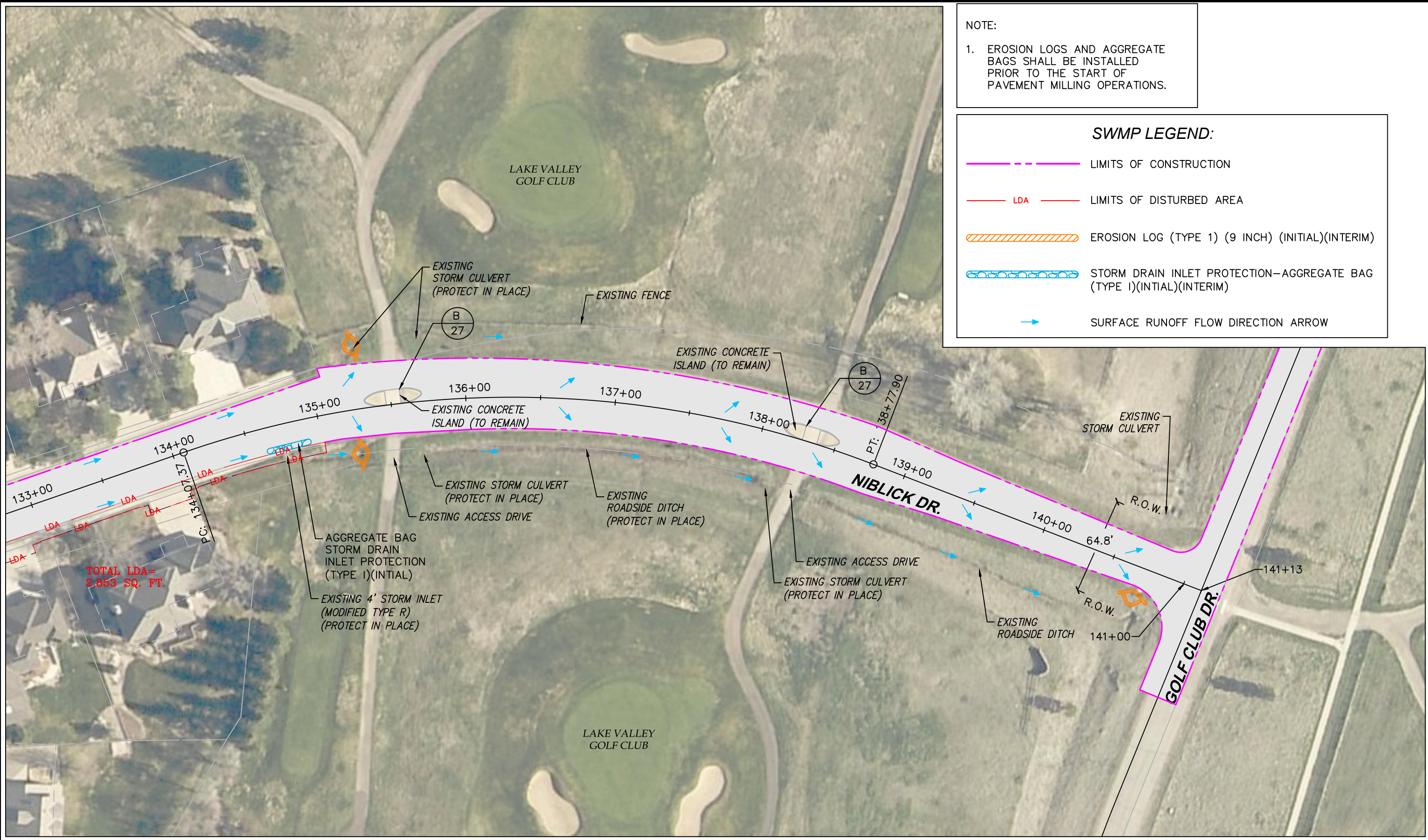
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LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
NIBLICK DR - SWMP (2)
 PROJECT NO: RS-00-021 SHEET NO: 35

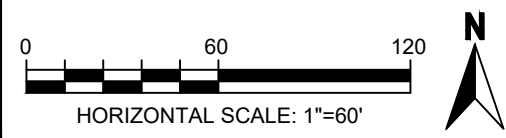
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NOTE:
 1. EROSION LOGS AND AGGREGATE BAGS SHALL BE INSTALLED PRIOR TO THE START OF PAVEMENT MILLING OPERATIONS.

SWMP LEGEND:

- - - LIMITS OF CONSTRUCTION
- LDA — LIMITS OF DISTURBED AREA
- ▨ EROSION LOG (TYPE 1) (9 INCH) (INITIAL)(INTERIM)
- ▨ STORM DRAIN INLET PROTECTION-AGGREGATE BAG (TYPE 1)(INITIAL)(INTERIM)
- SURFACE RUNOFF FLOW DIRECTION ARROW



BID-SET

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

BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION

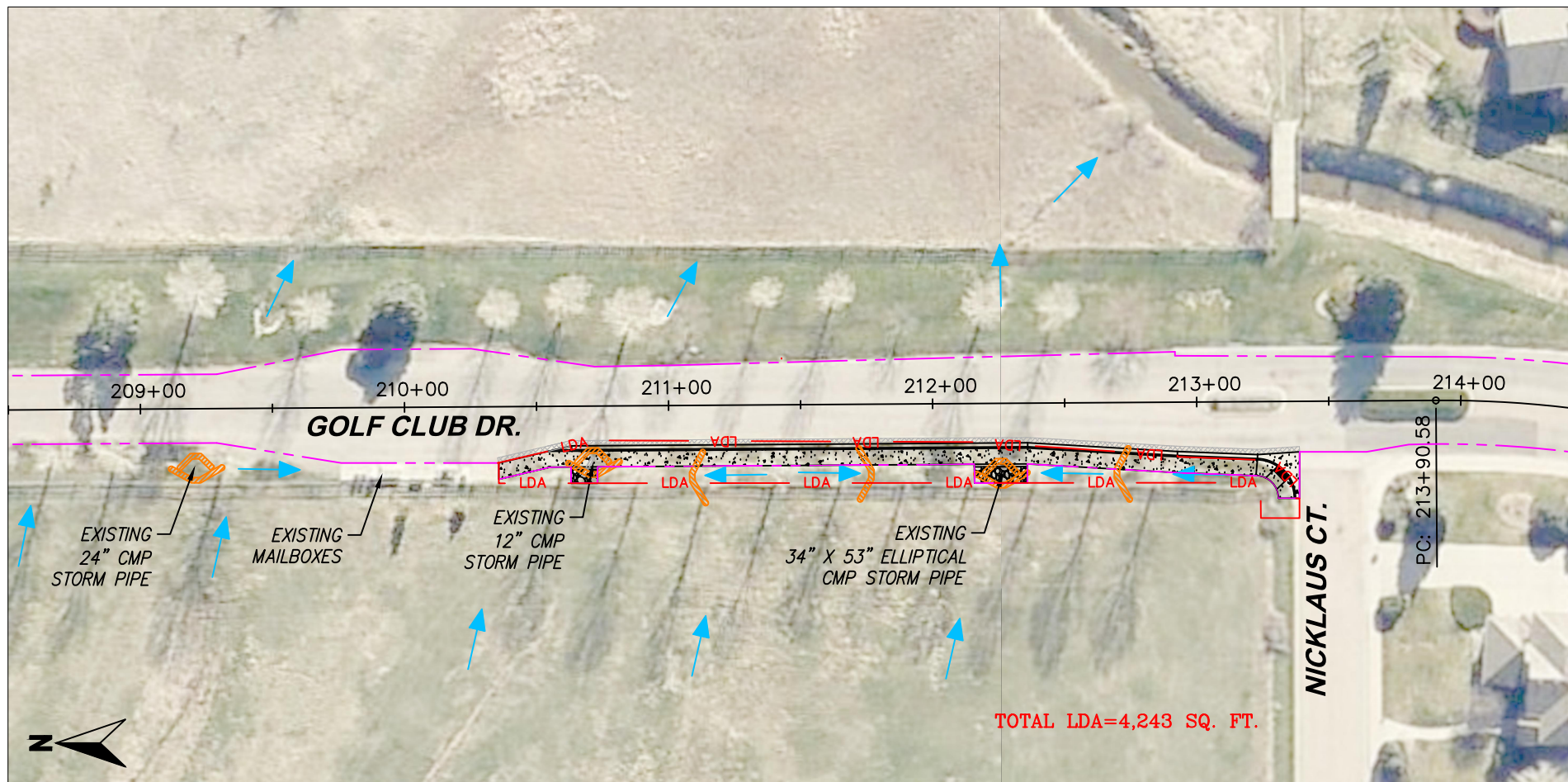
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LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING

NIBLICK DR - SWMP (3)

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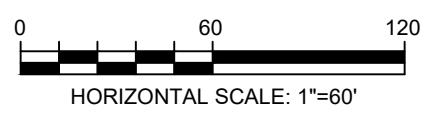
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NOTE:
 1. EROSION LOGS AND AGGREGATE BAGS SHALL BE INSTALLED PRIOR TO THE START OF PAVEMENT MILLING OPERATIONS.

SWMP LEGEND:

- LIMITS OF CONSTRUCTION
- LDA LIMITS OF DISTURBED AREA
- EROSION LOG (TYPE 1) (9 INCH) (INITIAL)(INTERIM)
- STORM DRAIN INLET PROTECTION-AGGREGATE BAG (TYPE I)(INITIAL)(INTERIM)
- SURFACE RUNOFF FLOW DIRECTION ARROW



BID-SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO

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

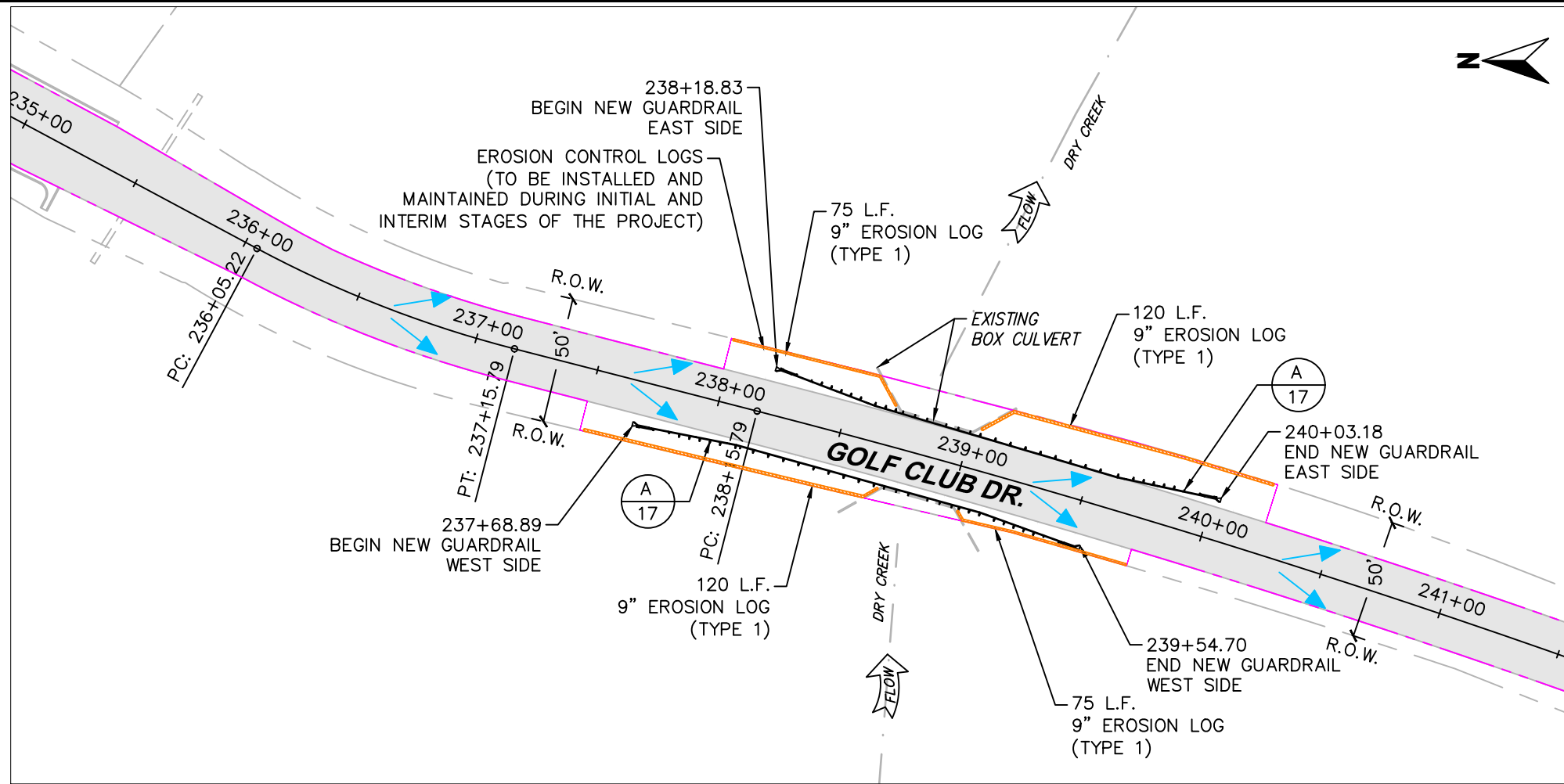
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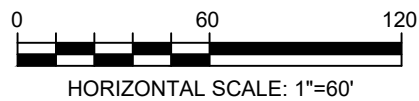
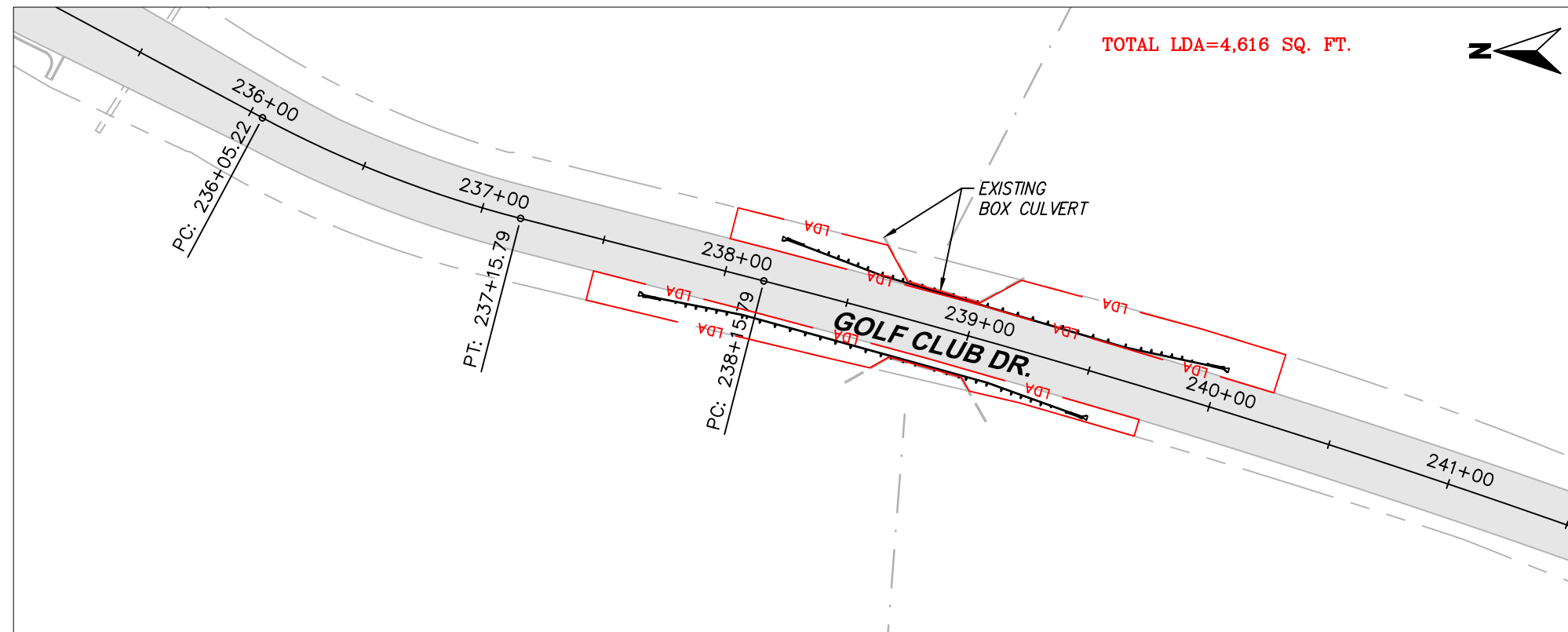
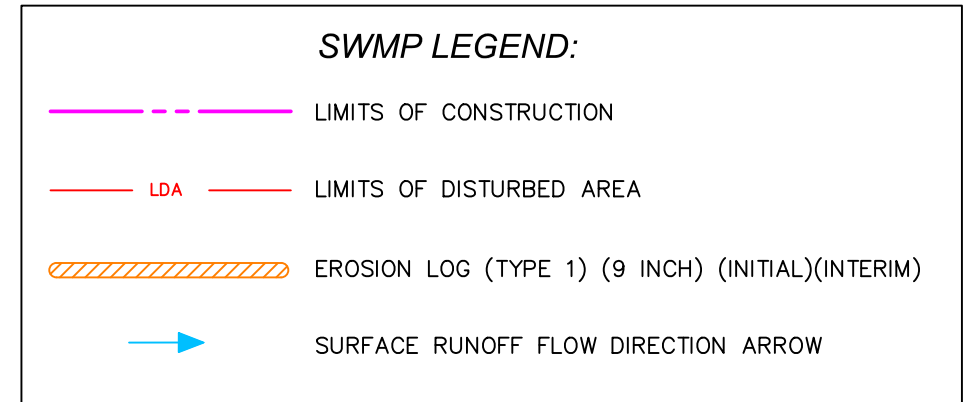
BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
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LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
GOLF CLUB RD- SWMP (1)
 PROJECT NO: RS-00-021 SHEET NO: 37

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- NOTES:**
1. EROSION LOGS SHALL BE INSTALLED PRIOR TO THE START OF PAVEMENT MILLING OPERATIONS.
 2. PLACE ALL EROSION CONTROL WITHIN EXISTING RIGHT-OF-WAY.



BID-SET

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

NO.	DATE	REVISION DESCRIPTION:



BOULDER COUNTY PUBLIC WORKS ENGINEERING DIVISION
 DESIGNED: DD CAD/C3D: RL CHECKED: DD DATE: 11/30/2020

LAKE VALLEY ESTATES/NORTH RIM ASPHALT RESURFACING
GOLF CLUB RD- SWMP (2)
 PROJECT NO: RS-00-021 SHEET NO: 38



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

INSURANCE AND W-9 REQUIREMENTS

PAYMENT & PERFORMANCE BONDS

Both a payment and a performance bond are required for this project and must each equal 100% of the proposed cost. Please include the cost of this bonding into the total proposed cost.

INSURANCE REQUIREMENTS

General Liability	\$1,000,000 Each Occurrence \$2,000,000 General Aggregate \$2,000,000 Products Completed Operations Aggregate 3 years Products/Completed Operations
Excess or Umbrella	\$3,000,000
Automobile Liability	\$1,000,000 Each Accident *Including Hired & Non-Owned Auto
Worker's Compensation and Employer's Liability	Statutory limits
Pollution Liability	\$1,000,000 Per Loss \$1,000,000 Aggregate Coverage maintained or extended discovery period for 3 years

***In regards to General Liability, Umbrella/Excess Liability, and Pollution Liability:
If any or all of these coverages are required above, additional insured status will be required at the time a contract is executed.**

Note that the above insurance amounts are the minimum required for this project. Proof of current insurance must be provided with your proposal in the form of a sample certificate. You are NOT required to include additional insured status until the time a contract is executed.

If you require a waiver of insurance requirements you may request one in your response with an explanation.

W-9 REQUIREMENT

Provide a copy of your business's W-9 with your proposal.



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
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SUBMITTAL SECTION

The bidder's attention is especially called to the items listed below, which must be submitted in full as part of the BID. Failure to submit any of the documents listed below as a part of your BID, or failure to acknowledge any addendum in writing with your BID, or submitting a bid on any condition, limitation or provision not officially invited in this Invitation to Bid (BID) may be cause for rejection of the BID.

THIS CHECKLIST MUST BE SUBMITTED AS PART OF YOUR BID PACKAGE: Bidder will check each box indicating compliance:

INCLUDED	ITEM
	Name and Address of the Partners and Subcontractors if applicable
	A detailed project schedule with an all-inclusive total cost
	Information on the relevant experience of key personnel
	State your compliance with the Terms and Conditions in the Sample Contract contained in this BID. Specifically list any deviations and provide justification for each deviation.
	Submit three references for similar projects your company has completed within the last three years and contact information
	Insurance Certificate
	W-9
	Signature Page
	Addendum Acknowledgement(s) (If Applicable)



BOULDER COUNTY PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

LAKE VALLEY/NORTH RIM RESURFACING

RS-000-021

BID ABSTRACT

13-Jan-2021

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT TOTAL	UNIT COST	TOTAL COST
201-00000	CLEAR AND GRUB	LS	1.00		
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	S.Y.	11304.00		
202-04002	CLEAN CULVERT	EA	1.00		
203-00010	UNCLASSIFIED EXCAVATION (CIP)	CY	7806.00		
208-00012	EROSION LOG (9-INCH)(TYPE 1)	LF	950.00		
208-00035	AGGREGATE BAG	L.F.	100.00		
208-00054	STORM DRAIN INLET PROTECTION TYPE III	EA	7.00		
208-00103	REMOVAL AND DISPOSAL OF SEDIMENT (LABOR)	HR	40.00		
208-00105	REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT)	HR	10.00		
208-00106	SWEEPING (SEDIMENT REMOVAL)	HR	40.00		
208-00207	STORMWATER MANAGEMENT PLAN	LS	1.00		
208-00207	EROSION CONTROL SUPERVISOR	HR	60.00		
210-00010	RESET MAILBOX	EA	9.00		
210-00810	RESET SIGN	EA	1.00		
210-01710	RESET VALVE BOX	EA	14.00		
210-04010	RESET MANHOLE	EA	11.00		
212-00006	SEEDING NATIVE	ACRE	0.17		
212-00032	SOIL CONDITIONING	ACRE	0.17		
304-06000	AGGREGATE BASE COURSE CLASS 6 (SHOULDER/DRIVEWAY)	TON	706.00		
310-00608	FULL DEPTH RECLAMATION OF HOT MIX ASPHALT PAVEMENT (0-8")	SY	41857.00		
310-00610	FULL DEPTH RECLAMATION OF HOT MIX ASPHALT PAVEMENT (8-12")	SY	8837.00		
403-00720	HOT BITUMINOUS PAVEMENT (PATCHING 6")(ASPHALT)	TON	530.00		
403-33641	HOT MIX ASPHALT (GRADING S)(ASPHALT)(50)(PG64-22)	TON	13964.00		
403-34741	HOT MIX ASPHALT (GRADING SX)(ASPHALT)(50)(PG64-22)	TON	6726.00		
606-00301	GUARDRAIL TYPE 3 (W BEAM 31 INCH) (6-3 POST SPACING)	LF	150.00		
606-01390	END ANCHORAGE TYPE 3 (FLARED)	EA	2.00		
606-02005	END ANCHORAGE (FLARED)	EA	2.00		
606-10200	BRIDGE RAIL TYPE 3 (W-BEAM 31 INCH)	LF	68.00		
609-21020	CURB & GUTTER TYPE 2 (SECTION II-B)	LF	550.00		
608-00006	CONCRETE SIDEWALK (6- INCH)	SY	225.00		
609-24008	GUTTER TYPE 2 (8 FOOT)	LF	60.00		
620-00020	SANITARY FACILITY	EA	2.00		
625-00000	CONSTRUCTION SURVEYING	L.S.	1.00		
626-000000	MOBILIZATION	L.S.	1.00		
627-00005	PAVEMENT MARKING (EPOXY)	GAL	130.00		
627-30210	PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP BAR-CROSSWALK)	S.F.	292.00		
630-00000	FLAGGING	HOUR	4000.00		
630-00007	TRAFFIC CONTROL INSPECTION	DAY	14.00		
630-00008	CONSTRUCTION ZONE TRAFFIC CONTROL	LS	1.00		
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	70.00		
630-80344	PORTABLE MESSAGE SIGN PANEL	EA	8.00		
630-80344	CONSTRUCTION TRAFFIC SIGN (SPECIAL)(PROJECT INFO.)	EA	2.00		
630-80348	CONSTRUCTION TRAFFIC SIGN (SPECIAL)(FUNDING INFO.)	EA	2.00		
700-70010	FORCE ACCOUNT - MINOR CONTRACT REVISIONS	F/A	1.00	\$ 135,000.00	\$ 135,000.00
			PROJECT TOTAL		

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT TOTAL	UNIT COST	TOTAL COST
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Enclosed herewith is the required bid bond in the amount of ten percent (10%) (\$_____) which the bidder agrees to be forfeited to and become the property of the County of Boulder as liquidated damage should this proposal be accepted and a Contract be awarded to him and he fails to enter into a Contract in the form prescribed and to furnish the required bonds and insurance within ten days upon his signing the contract and delivering the approved bonds. In submitting the bid it is understood that the right is reserved by the County of Boulder to reject any and all bids.



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

SIGNATURE PAGE

Contact Information	Response
Company Name including DBA	
List Type of Organization (Corporation, Partnership, etc.)	
Name, Title, and Email Address of Person Authorized to Contract with Boulder County	
Company Address	
Company Phone Number	
Company Website	

By signing below I certify that:

I am authorized to bid on my company's behalf.

I am not currently an employee of Boulder County.

None of my employees or agents is currently an employee of Boulder County.

I am not related to any Boulder County employee or Elected Official.

(Sole Proprietorships Only) I am not a Public Employees' Retirement Association (PERA) retiree.

**Signature of Person Authorized to Bid on
 Company's Behalf**

Date

Note: If you cannot certify the above statements, please explain in a statement of explanation.

BOULDER COUNTY SAMPLE CONTRACT

THIS CONTRACT ("Contract") is entered into by and between the Board of County Commissioners on behalf of the County of Boulder, State of Colorado, a body corporate and politic, for the benefit of the Public Works Department ("County") and [Supplier] ("Contractor"). County and Contractor are each a "Party," and collectively the "Parties."

In consideration of the mutual covenants contained in this Contract, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. **Incorporation into Contract:** The **Details Summary** is incorporated into this Contract. The **Contract Documents** are incorporated into this Contract by reference, except to the extent that the Proposal, if any is incorporated, contains any obligations placed upon County and not otherwise contained in this Contract.

2. **Work to be Performed:** Contractor will provide all labor and equipment and do all tasks necessary and incidental to performing the work as described in the **Details Summary** and **Contract Documents** (the "Work"). Contractor will perform the Work (i) in a good and workmanlike manner, (ii) at its own cost and expense, (iii) in accordance with recognized industry standards of care, skill and diligence for the type of work being performed, and (iv) in strict accordance with the Contract and the signed and sealed plans and specifications, which are incorporated herein by reference. County and its representatives shall have access to the Work at all times.

a. Contractor shall supervise and direct the Work and shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract.

b. Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for the proper execution and completion of the Work. Contractor warrants that all materials incorporated into the Work will be new unless otherwise specified.

c. Contractor shall at all times enforce good order among its employees and shall not employ on the Work any unfit person or anyone not skilled in the task assigned to such person. Contractor shall initiate, maintain, and supervise all safety precautions and programs in connection with the Work to ensure safe conditions on the premises at all times. Contractor shall comply with all laws, regulations, ordinances, rules, and orders of any public authority bearing on the safety of persons and property. In the event that County notifies Contractor of any unsafe conditions or practices, Contractor shall immediately take all actions required to remediate them at no expense to County. County reserves the right to immediately suspend the Work in the event of imminent hazard, as determined by County.

d. At all times, Contractor shall keep the premises free from accumulation of waste materials or rubbish caused by Contractor's operations. Upon completion of the Work, Contractor shall remove all of its waste materials and rubbish from the premises, as well as its tools, construction equipment, machinery and surplus materials.

e. Contractor shall confine operations on the premises to areas permitted by law, ordinances, permits, this Contract, and as directed by County, including storage of any materials or equipment.

f. Any claim for an increase in the **Contract Amount** shall be made and generally described by Contractor in writing and delivered to County promptly, in no event later than thirty (30) days after the occurrence of the event giving rise to the claim. Notice of the amount of the claim with supporting data shall be delivered to County within sixty (60) days after such occurrence and shall be accompanied by Contractor's written statement that the amount claimed covers all known amounts to which Contractor is entitled as a result of the occurrence of said event. All claims for increase in the **Contract Amount** shall be determined by County if the Parties are unable to otherwise reach agreement on the claim.

g. Before ordering any materials or doing any Work, Contractor shall verify all measurements for the Work and shall be responsible for the correctness of same.

3. Term of Contract: The **Contract Term** begins on the **Start Date** and expires on the **Expiration Date**, unless terminated sooner. All the Work must be performed during the **Contract Term**.

4. Payment for Work Performed: In consideration of the Work performed by Contractor, and subject to conditions contained in this Contract, County will pay an amount not to exceed the **Contract Amount** to Contractor in accordance with the **Contract Documents**.

5. Invoicing: Contractor will promptly provide a copy of its Form W-9 and invoice template to County upon request. Contractor must submit an invoice to the County by the fifteenth (15th) day of the month for completion of any Work performed in the prior calendar month. All invoices submitted require the following components: Contractor's name and address (submitted W-9 address must match remit address), detailed description of services, dates of services, itemization of labor and materials costs, "Bill to: Boulder County" language, payment remittance address, payer, name and address, date of invoice, unique invoice number, and total amount due. Contractor must send all completed invoices to the **Invoice Contact** in the **Details Summary**. County may require delivery of invoices by email. Failure to submit invoices in a timely manner and in accordance with the terms of this Contract may cause a delay in payment. County may recoup any damages incurred because of Contractor's failure to submit invoices pursuant to the terms of this paragraph. County's acceptance or payment of an invoice will not constitute acceptance of any Work performed under this Contract.

6. Extra Time to Complete the Work (Additional Time only): If Contractor cannot complete the Work by the **Expiration Date**, Contractor may request extra time to complete the Work. County, in its sole discretion, may grant Contractor additional time to complete the Work by sending a written notice of extension to Contractor. An extension of time to complete the Work will not entitle Contractor to additional compensation from County.

7. Extension of Contract Term (Additional Time and Work): Upon mutual agreement of the Parties, this Contract may be extended until the **Final End Date**. During any extended **Contract Term**, the terms of this Contract will remain in full force and effect, unless otherwise amended in writing by the Parties. Where the Contractor will provide additional services for additional compensation beyond the initial **Contract Amount**, the Parties must execute a written amendment before the then-current **Expiration Date**. If necessary, the written amendment will incorporate an updated Scope of Work and updated Fee Schedule as exhibits. Contractor must provide a current Certificate of Insurance to the County that complies with the **Insurance Requirements** of this Contract, if any, prior to any extended **Contract Term**.

8. Schedule of Work: County may designate the hours (on a daily or weekly basis) during which Contractor may perform the Work, strictly for the purposes of minimizing inconvenience to the County and interference with County operations. Contractor will otherwise set its own work schedule. Contractor shall promptly notify County of any aspect of the Work that will not be delivered or accomplished according to the initial schedule.

9. Indemnity: Contractor will be liable for any damages to persons or property caused by or arising out of the actions, obligations, or omissions of Contractor, its employees, agents, representatives or other persons acting under Contractor's direction or control in performing or failing to perform the Work under this Contract. Contractor will indemnify and hold harmless County, its elected officials and appointed department heads, and its employees, agents and representatives (the "indemnified parties"), from any and all liability, claims, demands, actions, damages, losses, judgments, costs or expenses, including attorneys' fees, which may be made or brought or which may result against any of the indemnified parties as a result or on account of the actions or omissions of Contractor, its employees, agents or representatives, or other persons acting under Contractor's direction or control. This indemnification obligation will extend to claims based on Contractor's unauthorized use or disclosure of confidential information and intellectual property infringement. County will not be obligated to indemnify or defend Contractor under any circumstances. Contractor's obligations under this provision shall survive expiration or termination of this Contract. Nothing contained in this Contract or the **Contract Documents** is intended to limit or restrict the indemnification rights or obligations of any Party under this provision, or damages available for breaches of the obligations herein.

10. Nondiscrimination: Contractor will comply with the Colorado Anti-Discrimination Act, C.R.S. § 24-34-401, et seq., as amended, and all applicable local, State and Federal laws concerning discrimination and

unfair employment practices. County prohibits unlawful discrimination on the basis of race, color, religion, gender, gender identity, national origin, age 40 and over, disability, socio-economic status, sexual orientation, genetic information, or any other status protected by applicable Federal, State or local law. Contractor must require that its subcontractors, if any, similarly comply with all applicable laws concerning discrimination and unfair employment practices.

11. Information and Reports: Contractor will provide to authorized County, State, and Federal government representatives all information and reports that may be required for any purpose authorized by law. Contractor will permit access to such representatives to Contractor's facilities, books, records, accounts, and any other relevant sources of information. Where information required by a representative is in the exclusive possession of a person or entity other than Contractor, Contractor must so certify to the County and explain what efforts it has made to obtain the information.

12. Independent Contractor: Contractor is an independent contractor for all purposes in performing the Work. None of Contractor, its agents, personnel or subcontractors are employees of the County for any purpose, including the Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the Colorado Workers' Compensation Act, the Colorado Unemployment Insurance Act, and the Public Employees Retirement Association. Accordingly, County will not withhold or pay any income tax, payroll tax, or retirement contribution of any kind on behalf of Contractor or Contractor's employees. As an independent contractor, Contractor is responsible for employing and directing such personnel and agents as it requires to perform the Work. Contractor will exercise complete authority over its personnel and agents and will be fully responsible for their actions.

13. Termination

a. Breach: Either Party's failure to perform any of its material obligations under this Contract, in whole or in part or in a timely or satisfactory manner, will be a breach. The institution of proceedings under any bankruptcy, insolvency, reorganization or similar law, by or against Contractor, or the appointment of a receiver or similar officer for Contractor or any of its property, which is not vacated or fully stayed within thirty (30) days after the institution of such proceeding, will also constitute a breach. In the event of a breach, the non-breaching Party may provide written notice of the breach to the other Party. If the breaching Party does not cure the breach, at its sole expense, as reasonably determined by the non-breaching Party in its sole discretion, within thirty (30) days after delivery of notice, the non-breaching Party may exercise any of its remedies provided under this Contract or at law, including immediate termination of this Contract.

b. Non-Appropriation: The other provisions of this Contract notwithstanding, County is prohibited by law from making commitments beyond the current fiscal year. Payment to Contractor beyond the current fiscal year is contingent on the appropriation and continuing availability of funding in any subsequent year. County has reason to believe that sufficient funds will be available for the full **Contract Term**. Where, however, funds are not allocated for any fiscal period beyond the current fiscal year, County may terminate this Contract without penalty by providing seven (7) days' written notice to Contractor.

c. Convenience: In addition to any other right to terminate under this Section 13, County may terminate this Contract, in whole or in part, for any or no reason, upon seven (7) days' advance written notice to Contractor.

14. Contractor Obligations upon Termination or Expiration: By the **Expiration Date** or effective date of termination, if earlier, Contractor must (1) remove from County property all of its personnel, equipment, supplies, trash and any hazards created by Contractor, (2) protect any serviceable materials belonging to the County, and (3) take any other action necessary to leave a safe and healthful worksite. Any items remaining on County property after the Expiration Date or the effective date of termination, if earlier, will be deemed abandoned by Contractor.

15. Payable Costs in Event of Early Termination: If County terminates this Contract before the **Expiration Date**, Contractor's payments (and any damages associated with any lawsuit brought by Contractor) are limited to only (1) payment for Work satisfactorily executed and fully and finally completed, as determined by County in its sole discretion, prior to delivery of the notice to terminate, and (2) the reasonable and actual costs Contractor incurred in connection with performing the Work prior to delivery of

the notice to terminate. Contractor explicitly waives all claims it may have against the County for any other compensation, such as anticipatory profits or any other consequential, special, incidental, punitive or indirect damages.

16. Remedies for Non-Performance: If Contractor fails to perform any of its obligations under this Contract, County may, at its sole discretion, exercise one or more of the following remedies (in addition to any other remedies provided by law or in this Contract), which shall survive expiration or termination of this Contract:

a. Suspend Performance: County may require that Contractor suspend performance of all or any portion of the Work pending necessary corrective action specified by the County and without entitling Contractor to an increase in compensation or extension of the performance schedule. Contractor must promptly stop performance and incurring costs upon delivery of a notice of suspension by the County.

b. Withhold Payment Pending Corrections: County may permit Contractor to correct any rejected Work at the County's discretion. Upon County's request, Contractor must correct rejected work at Contractor's sole expense within the time frame established by the County. Upon full and final completion of the corrections satisfactory to the County, County will remit payment to Contractor.

c. Deny Payment: County may deny payment for any Work that does not comply with the requirements of the Contract or that Contractor otherwise fails to provide or fully and finally complete, as determined by the County in its sole discretion. Upon County request, Contractor will promptly refund any amounts prepaid by the County with respect to such non-compliant Work.

d. Removal: Upon County's request, Contractor will remove any of its employees or agents from performance of the Work, if County, in its sole discretion, deems any such person to be incompetent, careless, unsuitable, or otherwise unacceptable.

17. Binding Arbitration Prohibited: County does not agree to binding arbitration by any extra-judicial body or person.

18. Conflicts of Interest: Contractor may not engage in any business or personal activities or practices or maintain any relationships that conflict in any way with the full performance of Contractor's obligations.

19. Notices: All notices provided under this Contract must be in writing and sent by Certified U.S. Mail (Return Receipt Requested), electronic mail, or hand-delivery to the other Party's **Contact** at the address specified in the **Details Summary**. For certified mailings, notice periods will begin to run on the day after the postmarked date of mailing. For electronic mail or hand-delivery, notice periods will begin to run on the date of delivery.

20. Statutory Requirements: This Contract is subject to all statutory requirements that are or may become applicable to counties or political subdivisions of the State of Colorado generally, including but not limited to: C.R.S. § 38-26-107, which requires withholding funds where the County receives a claim for payment from a supplier or subcontractor of Contractor upon notice of final settlement (required for public works contracts that exceed \$150,000); C.R.S. § 8-17-101 et seq.; C.R.S. § 18-8-301, et seq.; and C.R.S. § 18-8-401, et seq.

21. Public Contracts for Services (C.R.S. §§ 8-17.5-101, et seq.): *The phrase "unauthorized worker" as used in this provision shall have the same and intended meaning as "illegal alien" as such phrase is used in C.R.S. §§ 8-17.5-101, et seq.* Contractor hereby certifies, warrants, and agrees that it does not knowingly employ or contract with an unauthorized worker who will perform work under this Contract and further certifies that it will confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Contract by participating in the E-Verify Program established under Pub. L. 104-28 or the department verification program established under C.R.S. § 8-17.5-102(5)(c). Contractor (i) shall not knowingly employ or contract with an unauthorized worker to perform work under this Contract; (ii) shall not enter into a contract with a subcontractor that fails to certify to the contractor that the subcontractor shall not knowingly employ or contract with an unauthorized worker to perform work under this Contract; (iii) has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Contract through participation in the E-Verify program or department program; (iv) is prohibited

from using either the E-Verify program or department program procedures to undertake preemployment screening of job applicants while this Contract is being performed; and (v) shall comply with any reasonable request by the department made in the course of an investigation that the Colorado Department of Labor and Employment is undertaking pursuant to the authority established in C.R.S. § 8-17.5-102(5). If Contractor obtains actual knowledge that a subcontractor performing work under this Contract knowingly employs or contracts with an unauthorized worker, Contractor shall (a) notify the subcontractor and County within three (3) days that Contractor has actual knowledge that subcontractor is employing or contracting with an unauthorized worker; and (b) terminate the subcontract if, within three (3) days of receiving notice hereunder, subcontractor does not stop employing or contracting with the unauthorized worker; except that Contractor shall not terminate the contract with the subcontractor if during such three (3) days the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an unauthorized worker. Contractor's violation of this provision will constitute a material breach of this Contract, entitling the County to terminate the contract for breach. If this Contract is so terminated, Contractor shall be liable for actual and consequential damages to the County.

22. Entire Agreement/Binding Effect/Amendments: This Contract represents the complete agreement between the Parties and is fully binding upon them and their successors, heirs, and assigns, if any. This Contract terminates any prior agreements, whether written or oral in whole or in part, between the Parties relating to the Work. This Contract may be amended only by a written agreement signed by both Parties.

23. Assignment/Subcontractors: This Contract may not be assigned or subcontracted by Contractor without the prior written consent of the County. If Contractor subcontracts any of its obligations under this Contract, Contractor will remain liable to the County for those obligations and will also be responsible for subcontractor's performance under, and compliance with, this Contract. Contractor shall not contract with a person or entity to whom County has made a reasonable objection.

24. Governing Law/Venue: The laws of the State of Colorado govern the construction, interpretation, performance, and enforcement of this Contract. Any claim relating to this Contract or breach thereof may only be brought exclusively in the Courts of the 20th Judicial District of the State of Colorado and the applicable Colorado Appellate Courts.

25. Breach: The failure of either Party to exercise any of its rights under this Contract will not be deemed to be a waiver of such rights or a waiver of any breach of the Contract. All remedies available to a Party in this Contract are cumulative and in addition to every other remedy provided by law.

26. Severability: If any provision of this Contract becomes inoperable for any reason but the fundamental terms and conditions continue to be legal and enforceable, then the remainder of the Contract will continue to be operative and binding on the Parties.

27. Third-Party Beneficiary: Enforcement of the terms and conditions and all rights and obligations of this Contract are reserved to the Parties. Any other person receiving services or benefits under this Contract is an incidental beneficiary only and has no rights under this Contract. Notwithstanding, where the beneficiary **Department** is led by an Elected Official, such Elected Official shall be considered a third-party beneficiary.

28. Colorado Open Records Act: County may disclose any records that are subject to public release under the Colorado Open Records Act, C.R.S. § 24-72-200.1, et seq.

29. Conflict of Provisions: If there is any conflict between the terms of the main body of this Contract and the terms of any of the **Contract Documents**, the terms of the main body of the Contract will control.

30. Governmental Immunity: Nothing in this Contract shall be construed in any way to be a waiver of the County's immunity protection under the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, et seq., as amended.

31. Representations and Warranties: Contractor represents and warrants the following:
a. Execution of this Contract and performance thereof is within Contractor's duly authorized powers;
b. The individual executing this Contract is authorized to do so by Contractor;

c. Contractor is authorized to do business in the State of Colorado and is properly licensed by all necessary governmental and public and quasi-public authorities having jurisdiction over the Work and the Contractor; and

d. Contractor and its subcontractors, if any, are financially solvent, able to pay all debts as they mature, and have sufficient working capital to complete the Work and perform all obligations under the Contract.

32. Legal Compliance: Contractor assumes full responsibility for obtaining and maintaining any permits and licenses required to perform the Work. Contractor is solely responsible for insuring that its performance under this Contract and the Work itself will comply with all Federal, State, and local laws, regulations, ordinances and codes. Contractor shall promptly notify County if any drawings or specifications are at variance with any laws, regulations, ordinances, or codes. If Contractor performs any Work contrary to such laws, regulations, ordinances, or codes, Contractor shall bear all costs arising therefrom. County approval of the Work or any aspect of Contractor's performance, such as drawings, specifications, plans, designs, or other Contractor-drafted documents, shall not be interpreted to mean that Contractor has satisfied its obligations under this Section.

33. Litigation Reporting: Contractor is not currently involved in any action before a court or other administrative decision-making body that could affect Contractor's ability to perform the Work. Contractor will promptly notify the County if Contractor is served with a pleading or other document in connection with any such action.

34. Tax Exemption: County is exempt from payment of Federal, State, and local government taxes. Contractor shall collect no tax from the County, and the County shall not be liable to pay any taxes imposed on Contractor. County shall provide its tax exemption status information to Contractor upon request.

35. Delegation of Authority: The Parties acknowledge that the Board of County Commissioners has delegated authority to the Department Head or Elected Official that leads the beneficiary **Department** and their designees to act on behalf of the County under the terms of this Contract, including but not limited to the authority to terminate this Contract.

36. Ownership of Work Product: All work product, property, data, documentation, information or materials conceived, discovered, developed or created by Contractor pursuant to this Contract ("Work Product") will be owned exclusively by the County. To the extent possible, any Work Product will be deemed to be a work made for hire. Contractor unconditionally and irrevocably transfers and assigns to the County all right, title and interest in and to any Work Product.

37. Publicity Releases: Contractor will not refer to this Contract or the County in commercial advertising without prior written consent of the County. This provision shall survive expiration or termination of this Contract.

38. Execution by Counterparts; Electronic Signatures: This Contract may be executed in multiple counterparts, each of which will be deemed an original, but all of which will constitute one agreement. The Parties approve the use of electronic signatures, governed by the Uniform Electronic Transactions Act, C.R.S. §§ 24 71.3 101 to 121. The Parties will not deny the legal effect or enforceability of this Contract solely because it is in electronic form or because an electronic record was used in its creation. The Parties will not object to the admissibility of this Contract in the form of electronic record, or paper copy of an electronic document, or paper copy of a document bearing an electronic signature, because it is not in its original form or is not an original.

39. Limitation on Public Statements and Lobbying Activity. During the term of this Contract, Contractor may receive from the County its confidential data, work product, or other privileged or confidential information that is protected by law. To maintain the fact and appearance of absolute objectivity, Contractor shall not, without the prior written consent of the County, which shall not be unreasonably withheld, do any of the following: (a) disclose information obtained because of this contractual relationship to any third party; (b) lobby any State or Federal agency on any pending matter while this Contract is effective; or (c) make any public statements or appear at any time to give testimony at any public meeting on the subject matters regarding which Contractor is or was retained by the County. County may set reasonable conditions on any disclosure authorized by the County under this provision. Notwithstanding, Contractor may make

disclosures as required by law, and to law enforcement officials in connection with any criminal justice investigation.

40. Sustainability: All construction, deconstruction, remodel, and office move projects are required to follow construction waste procedure modeled off of Boulder County BuildSmart Code, International Green Construction Code (IGCC), International Energy Conservation Code (IECC), and Leadership in Energy and Environmental Design (LEED) certification, as an effort to achieve maximum jobsite waste diversion, energy efficiency, and water conservation. All 'demolition projects' are to follow deconstruction procedures. Instead of demolition project materials being crushed and primarily sent to the landfill, these projects should be systematically dismantled, typically in the opposite order they were constructed, in order to maximize the salvage of materials. Any hazardous materials encountered should follow state and federal standards, and contractor shall leverage the Boulder County Hazardous Materials Management facility for hazardous materials. The development of a project diversion plan is encouraged to include material types and volume/weight estimations as well as planned destinations. Projects must track all jobsite waste.

41. Limitation of Liability: COUNTY SHALL NOT BE LIABLE TO CONTRACTOR FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, PUNITIVE, OR INDIRECT DAMAGES ARISING FROM OR RELATING TO THIS CONTRACT, REGARDLESS OF ANY NOTICE OF THE POSSIBILITY OF SUCH DAMAGES. COUNTY'S AGGREGATE LIABILITY, IF ANY, ARISING FROM OR RELATED TO THIS CONTRACT, WHETHER IN CONTRACT, OR IN TORT, OR OTHERWISE, IS LIMITED TO, AND SHALL NOT EXCEED, THE AMOUNTS PAID OR PAYABLE HEREUNDER BY COUNTY TO CONTRACTOR. ANY CONTRACTUAL LANGUAGE LIMITING CONTRACTOR'S LIABILITY SHALL BE VOID.

42. County Opportunity to Review: Contractor shall provide County with the opportunity to review and approve or take other appropriate action upon the Contractor's submittals, such as Shop Drawings, Product Data, and Samples, but only for conformance with the design concept of the Work and with the information given in the Contract Documents.

43. Notice to Proceed: The Parties agree that time is of the essence and work will begin after a "Notice to Proceed" has been issued by the County and in accordance with the terms therein.

44. Retainage: County may retain partial payment pending completion and County acceptance of the Work as satisfactory and fully and finally complete. For contracts that exceed \$150,000, the retention rate shall not exceed five percent (5%). C.R.S. § 24-91-103. Contractor is responsible for submitting a final invoice for any retainage held by County. If It becomes necessary for County to take over completion of the Work, all of the amounts owing to Contractor, including the withheld percentage, shall be applied: First, towards completion of the Work; second, towards performance of the withholding requirement set forth in C.R.S. § 38-26-107; third, to the surety furnishing bonds for the Work, to the extent such surety has incurred liability or expense in competing the Work or made payments pursuant to C.R.S. § 38-26-106; then, to Contractor. Such retained percentage as may be due to Contractor shall be due and payable as provided by C.R.S. § 38-26-107.

45. Bonds: Upon County's request, Contractor shall obtain and deliver to County payment and performance bonds each equal to 100% of the total Contract. Bonds shall be executed by a qualified corporate surety and must be acceptable to County. County reserves the right to accept other acceptable forms of surety in lieu of a bond, and to reduce the bond requirements set forth herein consistent with C.R.S. § 38-26-106.

46. Change Orders: If unforeseen modifications or changes are required, Contractor may submit a Change Order request to County, which must include a complete description, timeline, and fee schedule for the proposed work. Change Orders are not effective until approved by County in writing.

47. No Suspension or Debarment: Contractor certifies, and warrants for the duration of this Contract, that neither it nor its principals nor any of its subcontractors are debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this Contract by any Federal or State department or agency. Contractor shall comply, and shall require its subcontractors to comply, with subpart C of 2 C.F.R. § 180.

48. Permits/Licenses/Code Compliance: Prior to starting the Work, Contractor will identify and obtain, and maintain during this Contract, all permits and licenses necessary to perform the Work. Contractor shall comply with all State and local codes. Contractor is responsible for locating all public utilities, as necessary. Contractor shall require its subcontractors to comply with this provision. HVAC, roofing, and general contractors must be licensed through Boulder County Land Use. Electricians and plumbers must be licensed through the State and registered with Boulder County Land Use Building Safety and Inspection Division. Architects, Professional Engineers and Professional Land Surveyors must be fully-licensed through the State. All required permits and licenses must be provided to County prior to Contractor beginning the Work.

49. Stormwater Quality Protection Requirements: Contractor will take all measures necessary to prevent pollutants from entering storm drains and watercourses. To eliminate stormwater pollution, Contractor shall implement effective Best Management Practices (BMPs). BMPs include general good housekeeping practices, appropriate scheduling of activities, operational practices, maintenance procedures and other measures to prevent the discharge of pollutants directly or indirectly to the storm drain system. These BMPs shall be maintained for the duration of this Contract. Contractor shall also be responsible for proper disposal of all waste materials, including wastes generated by the implementation of BMPs. Contractor shall otherwise comply with the Federal Clean Water Act, Colorado Water Quality Control Act, and Boulder County's local Clean Water Act, Illegal Discharge Ordinance (No. 2012-4). For work performed in urbanized areas, Contractor must comply with the requirements of MS4 permit (COR090000), which is available through the Colorado Department of Public Health and Environment.

50. Guaranties and Warranties: Upon completion of the Work, Contractor will guaranty all labor, materials and workmanship incorporated into the Work for two (2) years from the Letter of Substantial Completion, or within any such longer period of time as may be prescribed by law, the specifications, or any other applicable special warranty required by the **Contract Documents**. Final payment upon full and final completion of the Work will not relieve Contractor of responsibility for faulty material or workmanship, which County may require Contractor to fix at Contractor's sole expense, in addition to County's other remedies. This provision shall apply to Work completed by Contractor's employees and subcontractors.

51. Final Payment: A final inspection of the Work shall be conducted by County. If a list of deficiencies results from such final inspection, Contractor shall promptly rectify all items appearing thereon before final payment will be made. When County indicates acceptance of the Work, Contractor may request final payment from County, including any retained amounts. Final payment shall be subject to C.R.S. § 38-26-107.

52. Notice of Final Settlement: Prior to remitting final payment to Contractor, County shall publish a Notice of Final Settlement in accordance with C.R.S. § 38-26-107. Final payment will be rendered in accordance with the statute and the other terms of this Contract. Final payment will not be rendered until County, in its sole discretion, determines full and final completion of the Work.

53. Geographic Information System (GIS) Data: Contractors agree that the following, specified data formats, shall be used and/or adhered to when submitting required data to the County:

a. All GIS data must be ArcGIS 10.x compatible. Shapefiles may be accepted with written, pre-approval, from the County.

b. All GIS data must have complete metadata, following Boulder County GIS Metadata Standards located at: <https://assets.bouldercounty.org/wpcontent/uploads/2018/03/metadata-standards-contractors.pdf>

c. All Computer Aided Design (CAD) files must have an assigned real world coordinate system to ensure compatible conversion into the County's GIS system, if necessary.

d. All spatial or georeferenced data will be provided to the county in the following coordinate system:

i. Name:

NAD 1983 HARN State Plane Colorado
North FIPS 0501 Feet

ii. Unit:

Foot US

iii. Projection:

Lambert Conformal Conic

iv. Horizontal Datum:
North American Datum 1983 HARN

v. Vertical Datum:
North American Vertical Datum 1988

vi. Spheroid:
GRS 1980

e. Contractors are responsible for capturing section corners or quarter corners for specific projects to be added into the Public Land Survey System (PLSS) project for updating the section corners, Contractors shall provide high-accuracy PLSS monument coordinates for each corner section or quarter corner section monument used as control points or that occur within the project area (“putting it on the cap”) as is reasonable, depending on the difficulty to access the point. All positions to be collected shall be required to use (at a minimum) the Real-Time Kinematic (RTK) method.

54. State Specifications: The Standard Specifications for Road and Bridge Construction 2017, either in whole or as set forth in the Bid Documents, are expressly incorporated into this Contract by reference.

55. Determination of Unit Prices: County will determine the actual quantities and classifications of Unit Price Work performed by Contractor. The Parties will review the County's preliminary determinations before County renders a written decision thereon (by recommendation of an Application for Payment or otherwise), which shall be final and binding upon Contractor. The value of any Unit Price Work covered by a Change Order or claim for an increase or decrease in the Contract Amount shall be determined by applying the unit prices to the quantities of items.

a. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, the Parties agree that the Contract Amount includes the total cost of Unit Price Work, determined by multiplying the quantity of each item by its unit price. Initial quantity determinations are estimates, which must be adjusted to reflect actual quantities. Contractor shall make a claim in writing to County for any additional amounts owed where actual quantities exceed estimated quantities. Contractor shall provide such written claim within twenty (20) days of providing the items and shall be accompanied by supporting documentation. The written claim shall include a statement that the claimed amount covers all known amounts (direct, indirect and consequential) to which Contractor is owed. County shall only pay Contractor for actual quantities of items provided hereunder.

b. The Parties agree that each unit price adequately covers Contractor's overhead and profit for each item.

56. Records Retention/Access/Audits: Contractor shall maintain all records and documents pertaining to this Contract in accordance with the requirements prescribed by County. Such records shall be maintained for a period of five (5) calendar years after the date of Contractor's final payment from County under this Contract. Contractor agrees that County or their designated representative shall have the right to review and to copy any records and supporting documentation pertaining to the performance of this Contract as necessary and upon request, throughout the term of this Contract, and for five (5) calendar years after the date of the final payment hereunder. Contractor agrees to allow the auditor(s) access to such records during normal business hours and to allow interviews of any employees who might reasonably have information related to such records. County and Contractor acknowledge that protected information is exempt from this requirement without proper client release.

57. Legal Interpretation. Each Party recognizes that this Contract is legally binding and acknowledges that it has had the opportunity to consult with legal counsel of its choice about this Contract. The rule of construction providing that any ambiguities are resolved against the drafting Party will not apply in interpreting the terms of this Contract.

58. Insurance: Prior to commencing the Work, Contractor will provide a Certificate of Insurance to the County demonstrating adequate insurance coverage as required by this paragraph. All policies evidencing coverage required by the Contract will be issued by insurance companies satisfactory to the County. Contractor will forward Certificates of Insurance directly to the **County Department** and **Contact** listed in the **Details Summary**.

a. Boulder County as Additional Insured: Boulder County shall be named as an additional insured for General Liability, Umbrella/Excess Liability, and Pollution Liability, as designated in this Contract. Additional insured shall be endorsed to the policy.

THE ADDITIONAL INSURED WORDING SHOULD BE AS FOLLOWS: *County of Boulder, State of Colorado, a body corporate and politic, is named as Additional Insured.*

b. **Notice of Cancellation:** Each insurance policy required by this Contract shall provide the required coverage and shall not be suspended, voided or canceled except after thirty (30) days' prior written notice has been given to the County except when cancellation is for non-payment of premium, then ten (10) days' prior notice may be given. If any insurance company refuses to provide the required notice, Contractor or its insurance broker shall notify the County any cancellation, suspension, or nonrenewal of any insurance policy within seven (7) days of receipt of insurers' notification to that effect.

c. **Insurance Obligations of County:** County is not required to maintain or procure any insurance coverage beyond the coverage maintained by the County in its standard course of business. Any insurance obligations placed on the County in any of the **Contract Documents** shall be null and void.

d. **Deductible:** Any and all deductibles contained in any insurance policy shall be assumed by and at the sole risk of Contractor.

e. **Primacy of Coverage:** Coverage required of Contractor and its subcontractors, if any, shall be primary over any insurance or self-insurance program carried by the County.

f. **Subrogation Waiver:** All insurance policies in any way related to this Contract secured or maintained by Contractor as required herein shall include clauses stating that each carrier shall waive all rights of recovery, under subrogation or otherwise, against County, its organizations, officers, agents, employees, and volunteers.

g. **Requirements.** For the entire duration of this Contract including any extended or renewed terms, and longer as may be required by this Contract, Contractor shall procure and maintain at its own expense, and without cost to the County, the following kinds and minimum amounts of insurance to insure the liability risks that Contractor has assumed under this Contract:

i. **Commercial General Liability**

Coverage should be provided on an Occurrence form, ISO CG0001 or equivalent. The policy shall be endorsed to include Additional Insured Owners, Lessees or Contractors endorsements CG 2038 (or equivalent), Designated Construction Project(s) General Aggregate Endorsement CG2503 (or equivalent) and Additional Insured Completed Operations for Owners, Lessees or Contractors CG 2037 (or equivalent). Minimum limits required of \$1,000,000 Each Occurrence, \$2,000,000 General Aggregate and \$2,000,000 Products/Completed Operations Aggregate. The County requires the Products/Completed Operations coverage to be provided 3 years after completion of construction. An endorsement must be included with the certificate.

ii. **Automobile Liability**

Bodily Injury and Property Damage for any owned, hired, and non-owned vehicles used in the performance of the Contract. Minimum limits \$1,000,000 Each Accident.

iii. **Workers' Compensation and Employer's Liability**

Workers' Compensation must be maintained with the statutory limits. Employer's Liability is required for minimum limits of \$100,000 Each Accident/\$500,000 Disease-Policy Limit/\$100,000 Disease-Each Employee.

iv. **Umbrella / Excess Insurance**

Umbrella/Excess Liability insurance in the amount \$3,000,000.00, following form.

v. **Pollution Liability**

Coverage pay for those sums the Contractor becomes legally obligated to pay as damages because of Bodily Injury, Property Damage or environmental Damage arising out of a pollution incident caused by the Contractor's work including Completed Operations. Coverage shall include emergency response expenses, pollution liability during transportation (if applicable) and at Non-Owned Waste Disposal Site (if applicable). The Minimum limits required are \$1,000,000 Per Occurrence/Loss and \$1,000,000 Policy Aggregate. If the coverage is written on a claims-made basis, the Contractor warrants that any retroactive date applicable to coverage under the policy precedes the effective date of this Contract; and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of three (3) years beginning from the time that work under this contract is completed. County shall be named as an additional insured for ongoing operations and completed operations.

[Signature Page to Follow]

IN WITNESS WHEREOF, the Parties have executed and entered into this Contract as of the latter day and year indicated below.

SIGNED for and on behalf of Boulder County	SIGNED for and on behalf of Contractor
Signature:	Signature:
Name:	Name:
Title:	Title:
Date:	Date:
↓↓ <i>For Board-signed documents only</i> ↓↓	
Attest:	<i>Initials</i>
Attestor Name:	
Attestor Title:	