



**ADDENDUM #1
Public Works
95th Resiliency and Reconstruction
BID-009-23**

January 17, 2024

The attached addendum supersedes the original Information and Specifications regarding BID-009-23 where it adds to, deletes from, clarifies or otherwise modifies. All other conditions and any previous addendums shall remain unchanged.

PLEASE NOTE:

- You must have attended the mandatory meeting to bid on this project.
- Regarding BidTable (BT-27DV):
 - 1) Per the public notice - There are fixed amounts that should have been included on the Bid Table:
For row 87, Minor Contract Revisions, please enter \$250,000.00 in Column H (Unit Price).
For row 88, Erosion Control, please enter \$25,000.00 in Column H (Unit Price).
 - 2) Per Addendum 1: One quantity has been changed and two new items have been added. Please see details below.
- There will be an additional question and answer period as noted below and the new submittal due date is **on or before 2:00 p.m. February 7, 2024.**
- All attachments referenced in the answers to the questions received are included at the end of this document.

Proposals must be submitted electronically on or before the Close Date at <https://bouldercounty.bonfirehub.com/>.

NO ZIP FILES OR LINKS TO EXTERNAL SITES WILL BE ACCEPTED. THIS INCLUDES GOOGLE DOCS AND SIMILAR SITES. ALL SUBMITTALS MUST BE RECEIVED AS AN ATTACHMENT (E.G. PDF, WORD, EXCEL).

Electronic submittals must be received at the website above. Submittals sent to any other box will NOT be forwarded or accepted. 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 submittals. No exceptions will be made.

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

1. Question: Can you please upload a copy of the Pre Bid Agenda for review?

ANSWER: Included.

2. Question: Are contractors required to provide pricing for alternate bid items?

ANSWER: No, this will not disqualify them from the bid.

3. Question: According to the roadway section B & C, the design calls for 2" intermediate lift of S Mix and a 1"-4" leveling course with S Mix. With the lift thickness needing to be three times the maximum nominal aggregate size of the mix, 2.25" would be the minimum for S Mix. Will the sections be modified to reflect this?

ANSWER: The typical section has been amended to reflect a constructible lift versus the mix gradation.

4. Question: On sheet G-007, there is 1941 TN of ABC Class 5 called out. On sheet G-010, the 1941 TN is classified as ABC (Class 5) (24 Inch). Can you please clarify what material you are looking for?

ANSWER: CDOT Class 5 (per table 703-2 of the CDOT standard specifications) material . 6 inches thick.

5. Question: The square yards of Removal of Asphalt Mat from STA 154+74.85 to STA 173+00 is significantly higher than the quantity I am coming up with. Is this value accurate?

ANSWER: The value was incorrect The corrective value is 6831 SY.

6. Question: When is this project slated to begin?

ANSWER: As soon as possible after contracting. Anticipated early April 2024.

7. Question: There were no signature pages to be uploaded in the proposal documents section, is the contractor to upload just our experience or will specific proposal documents be provided?

ANSWER: There is no specific document. Please upload your own.

8. Question: There were not project reference template documents provided, is the contractor to upload just our own references or will specific reference documents be provided?

ANSWER: There is no specific reference document. Please upload your own.

9. Question: Do these county requirements pertain to the temporary office trailer?

Project Information:

Project Type: Lab (construction trailers 3 of 3 temporary)

Applicable Codes:

2015 International Building Code (IBC)

Boulder County Building Code Amendments (BCBCA)

ANSWER: This is the contractor's responsibility if a field office is desired.

10. Question: The construction documents, as submitted, do not contain the required information to be accepted as a building permit application. Please provide the following additional plans, information, or documentation, and resubmit to Boulder County's on-line permit portal when you are ready. Note: This is not the complete building permit plan review. This review is only a brief inventory for the minimum information & plans required for permit application. 1. he submitted building permit request is not complete. Please upload the additional required information thru the portal.

ANSWER: This is the contractor's responsibility if a field office is desired.

11. Question: Ignition-Resistant Construction – Section R327 (BCBC)

Demonstrate how this structure meets the requirements for Ignition-Resistant Construction.

ANSWER: This is the contractor's responsibility if a field office is desired.

Please upload the class "A" roof assembly for the roof per section R327.4.1 of the BCBC. Please provide the ICC ES report or equal that states the roof meets a class "A" assembly for the roofing material. Here is a link to ICC ES:

<http://www.icc-es.org/> [protect-us.mimecast.com] or www.UL.org [protect-us.mimecast.com]

ANSWER: This is the contractor's responsibility if a field office is desired.

Please upload the listing for the siding that demonstrates compliant to section R327.4.6 of the BCBC.

ANSWER: This is the contractor's responsibility if a field office is desired.

Please upload the listing information for the roof vents see section R327.4.11.

ANSWER: This is the contractor's responsibility if a field office is desired.

Please provide means of enclosing underfloor area demonstrating compliance with Boulder County Building Code, see section 327.4.7.

ANSWER: This is the contractor's responsibility if a field office is desired.

Amended Documents:

Per the discussion and subsequent Q/A above, the following plans and specifications have been amended and added to this addendum. Along with this addendum an, additional Q/A session has been added along with a new bid due date:

Questions Due: January 24, 2024 - 2:00 p.m.

Addendum answers provided: January 31, 2024 - End of Day.

Bid Due Date: February 7, 2024 - 2:00 p.m.

Project special:

- **Commencement and Completion**
- **105 Shop Drawing**
- **203 Excavation and Embankment**
- **403 Hot Mix Asphalt**
- **Traffic Control Plan**

Project Plans:

Sheet G-001

- **Change sheet list table – Traffic Phasing was incorrect, actual drawing name of sheets 80 to 83 is Signing and Striping.**

Sheet G-003

- **Added note E5 changing required R-values.**

Sheet G-004

- Added note P6 explaining required smoothness category.

Sheet G-005

- Changed pavement Section "C" – Leveling Course shall be 1 ½" – 4" of Grading SX

Sheet G-008

- Earthwork summary table have been divided into two tables to match the construction phasing. Phase 1 covers earthwork from Sta. 173+00 to the north end of the project. Phase 2 covers from Sta. 173+00 to the south beginning of the project.

- A pay item has been added for *Borrow (Complete in Place)* to cover the embankment shortage in phase 1.

- A note has been added to explain how the topsoil items were calculated.

Sheet G-009

- Changed quantities for *Removal of Asphalt Mat*.

Sheet G-010

- Removed reference to aggregate base course thickness within surface item table.

Bid Tab:

- Revised 202-00220 Removal of asphalt mat – Quantity Changed Line #0-5.
- Added 203-00210 Borrow (Complete in place) – New line added #0-89.
- Added 403-09000 Warm Mix additive WMA – New line added #0-90.

These revisions are included BidTable (BT-27DV).

REVISION OF SECTION 105

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

Subsection 105.02 (b) shall include the following:

Shop drawings, working drawings, and other submittals shall be delivered to the Engineer in either hard copy or electronic format. Contractor shall verify that the submittal has been received by the Engineer.

Subsection 105.02 (c) shall be revised as follows:

The time required for the Engineer's review of each submittal will not exceed one (1) week after a complete submittal of shop drawings is received by the Engineer.

Subsection 105.07 shall delete second sentence in first paragraph:

The pavement smoothness category shall be MRI Category II unless shown otherwise on the plans.

Replace with:

The pavement smoothness category shall be MRI Category I.

Subsection 105.07 (d) shall include the following:

Incentive adjustments for smoothness will not be made. Corrective work will be required based upon Table 105-8.

**REVISION OF SECTION 203
EXCAVATION AND EMBANKMENT (COMPLETE IN PLACE)**

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

Subsection 203.02 Excavation (a) Unclassified Excavation, add the following:

Excavated material generated from the roadway will be considered for use as Embankment Material on this project, if the material meets the requirements of section 203.03. If the material is deemed not useable, the Unclassified Excavation material shall become the property of the Contractor. Haul for disposing of removed material will not be paid for separately but shall be included in the work.

Subsection 203.03 shall include the following:

In areas of roadway reconstruction, the intent of the project is to provide a stable base for a permanent roadway.

Material excavated on site may be used in areas requiring borrow. The Contractor shall furnish evidence that the material from the site or other sources, for use in the roadway embankment prism, meets the below requirements and shall pay for such tests as may be required to show compliance. All material shall be sampled and tested in accordance with the appropriate Colorado Department of Transportation or AASHTO procedures.

The requirements for Embankment Material under the roadway prism are:

The common fill shall be a blended mix of gravel, sand, cobbles and fines, with 100% passing the 6-inch size and no more than 20% passing the No. 200 sieve. All common fill shall be free of organics, wood, construction debris and be unfrozen at the time of placement. Common fill shall have a minimum dry unit weight of 120 pounds per cubic foot (compacted) and a minimum resistance (R-value) of 40 by the Hveem Stabilometer method.

Embankment material outside the roadway prism shall be 100% passing the 6-inch size and have a minimum R-value of 10.

Subsection 203.05 (c) – *Unsuitable Material*, shall be deleted and replaced with the following:

Unsuitable materials encountered in the subgrade that are determined to be detrimental to the roadway or embankment shall be removed to the depth and extents as directed by the Engineer. The excavated area shall be backfilled to finished subgrade with approved material per the *soft spot repair* detail in the plans and compacted per project requirements. Materials that contain organics or that cannot be dried or moisture conditioned, then compacted to the required density will be disposed of and cannot be reused as embankment fill. Unsuitable material includes, but is limited to, topsoil, vegetation, brush, sod, trash, and other deleterious substances. Materials not containing organics and that can be dried, or moisture conditioned and compacted to the required density can be reused as embankment fill as approved by the Engineer.

Subsection 203.06 shall include the following:

The borrow sources of embankment material shall consist of onsite material and imported material from the Contractor's source.

Onsite material has not been checked for suitability and shall be evaluated and approved by the Engineer prior to use as embankment.

The materials shall be furnished to the site and compacted in place per Section 203. Prior to placement of pavement, the subgrade shall be proof rolled with a fully-loaded 4000 gallon tandem axle water truck or equivalent to identify areas requiring additional compaction or rework, as determined by the Engineer. Any benching, over excavation, construction of temporary pads, removal of large boulders, shoring, or other work necessary to place the borrow is considered incidental to the work.

The Contractor shall furnish certification from a materials testing laboratory that the borrow materials meet the above requirements, including gradation tests.

Subsection 203.11, shall include the following:

The quantity for Unclassified Excavation will not be measured, but will be the quantity designated in the Contract, unless field changes are ordered. If field changes are ordered to remove additional material that is not covered under the Unsuitable Material item and is outside of the planned excavation limits, the bid unit price for Unclassified Excavation shall be used for compensation for such occurrence. No allowances shall be made for shrinkage, swell, subsidence due to compaction of the existing ground or any other losses.

The quantity for Unsuitable Material will be measured by actual cubic yards of material removed as directed by the Engineer.

Subsection 203.11(e) Potholing, is hereby revised for this project to include:

Potholing will be measured by the total number of hours that excavation and backfilling equipment is actually used as directed. All other related work, including removal of existing pavement, backfilling, shoring, surveying of utility, supplying survey information to the County and all labor will not be measured and paid for separately, but shall be included in the work.

Subsection 203.12 shall include the following:

All material from Unclassified Excavation shall become property of the Contractor. Haul for disposing of removed materials will not be paid for separately but shall be included in the work.

Payment for Unsuitable Material shall include excavation, hauling and disposing of unsuitable material, furnishing and placing of geo-grid fabric, furnishing and placing imported material as directed by the Engineer.

Payment for Unclassified Excavation (Complete in Place) shall include excavation, stripping, hauling, temporary stockpiling, processing, disposal, borrow, embankment placement, compaction, and shall be full compensation for excavation and embankment work associated with the roadway pavement and slopes.

Payment for Borrow (Complete in Place) shall be full compensation for all work necessary to complete the item including furnishing, hauling and placement of imported borrow material that meets this specification. The plan quantity is based upon a need to balance the earthwork quantities for Phase 1 of the project. All existing material between stations 173+00 to 244+00 shall be used to the fullest extent possible prior to importing any borrow material.

Payment will be made under:

Pay Item

Pay Unit

Unclassified Excavation (Complete in Place)	Cubic Yard
Borrow (Complete in Place)	Cubic Yard
Unsuitable Material	Cubic Yard
Potholing	Hour

**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

<i>Property</i>	Test Method	Value For Grading			
			S(75)	SX(75)	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		75	75	75
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. 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>					

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 up to 20% reclaimed asphalt pavement (RAP).

Hot mix asphalt for patching shall conform to the gradation requirements for Hot Mix Asphalt (Grading SX)(75)(PG 64-22).

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.

A warm mix additive may be used as directed by the Engineer when weather limitations for placement of HMA are at risk. The additive must be submitted and approved prior to use and be on CDOT's APL.

-3-
**REVISION OF SECTION 403
HOT MIX ASPHALT**

Subsection 403.03 shall include the following:

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 7 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 7 inches of full depth Hot Mix Asphalt.

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.

A material transfer device shall be used for all top lift paving.

Subsection 403.04 shall include the following:

Warm mix additive will be measured by the ton of HMA delivered to the project that includes the additive as prescribed in subsection 401.21.

Subsection 403.05 shall include the following:

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)(75)(PG 64-22)	Ton
Hot Mix Asphalt (Grading S)(75)(PG 64-22)	Ton
Hot Mix Asphalt (Patching)	Ton
Warm Mix Additive	Ton

Aggregate, asphalt recycling agent, asphalt cement, additives, hydrated lime, and all other work and materials 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, any change to the submitted mix design optimum asphalt cement content to establish production targets will not be measured and paid for separately, but shall be included in the work. No additional compensation will be considered or paid for any additional asphalt cement, plant modifications and additional personnel required to produce the HMA as a result in a change to the mix design asphalt cement content.

Historically, typical asphalt cement increases are from 0.1 to 0.5 percent. However, the Contractor should anticipate the AC increases typical of their mixes. Contractors bidding the project should anticipate this change and factor it into their unit price bid.

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.

The unit cost for the Warm Mix Additive bid item shall include all costs associated with furnishing and placing of the additive. This item is the cost for the additive only. The cost for furnishing and placement of the HMA will be compensated in the applicable HMA item.

COMMENCEMENT AND COMPLETION OF WORK

The Contractor shall commence work under the Contract on or before the 5th day following the Contract execution unless such time for beginning the work is changed by the Project Engineer in the "Notice to Proceed." The Contractor shall complete all work (excluding punch list items) within 180 working days in accordance with the "Notice to Proceed" and the punch list items shall be completed within 10 working days after Substantial Completion is declared. Punch list work shall be done efficiently and effectively so as not to unnecessarily delay Final Acceptance being met. A road closure will be allowed between approximate stations 149+62 to 173+00 for a total of 100 working days to complete the box culvert installations, concrete block revetment and roadway reconstruction within these limits. These limits of work are within an active raptor nest and work shall not proceed within a "NO WORK" zone until a wildlife biologist has determined that the young have fledged, or the nest is unoccupied as further defined in special provision section 240. If the project can not be completed due to weather limitations for HMA placement, a winter shutdown can occur suspending project time. The roadway needs to be open during the winter shutdown with a minimum of 5" of HMA (with Warm Mix Additive if required).

Per the Boulder County SWQP requirements, no earthwork can occur except that which is required to facilitate the installation of BMP's and until BMP's have been inspected by the County's Stormwater Permitting Manager and their SWQ permit issued. Contractor's schedule shall include this process. Working days will not be counted between BMP installation and County inspection.

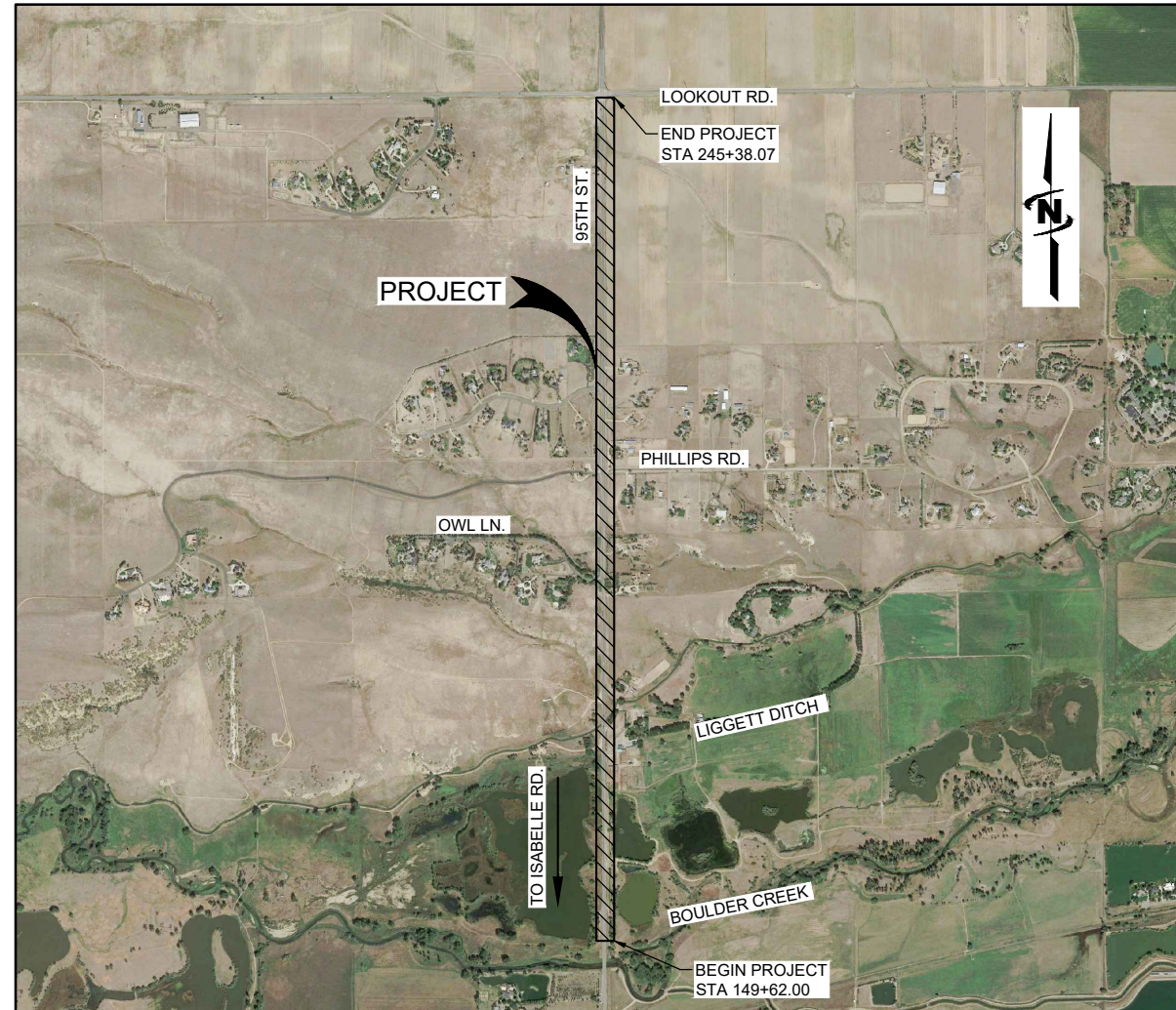
TABULATION OF LENGTH & DESIGN DATA

STATION	FEET	
	ROADWAY	MAJOR STRUCTURE
95th STREET STA. 149+62.00 BEGIN PROJECT		
STA. 245+38.07 END PROJECT	9,576.07	N/A
TOTAL	9,576.07	N/A
SUMMARY OF PROJECT LENGTH	FEET	MILES
ROADWAY (NET LENGTH)	9,457.40	1.791
MAJOR STRUCTURE	118.67	0.022
PROJECT GROSS LENGTH	9,576.07	1.813
DESIGN DATA		
MAXIMUM RADIUS OF CURVE		N/A
MAXIMUM GRADE		6.0%
MAXIMUM DESIGN SPEED		50 MPH
DESIGN TRAFFIC		8,700 VPD
% TRUCK TRAFFIC		5%
DESIGN HOUR VOLUME		N/A
HORIZONTAL SIGHT DISTANCE		N/A
STOPPING SIGHT DISTANCE		475 FT
CLEAR ZONE DISTANCE (TANGENT)		24-28 FT

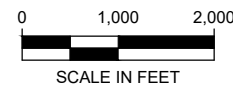
FOR INFORMATION ONLY

BOULDER COUNTY PUBLIC WORKS

95TH STREET RECONSTRUCTION DESIGN,
BOULDER CREEK TO LOOKOUT ROAD
BOULDER COUNTY
SECTIONS 8, 9, 16 & 17, T1N, R69W OF THE 6TH P.M.
BOULDER COUNTY PROJECT RD019-150



PROJECT LOCATION MAP



ADVERTISEMENT SET
OCTOBER 2023

Subset	Sheet Number(s)	Drawing Number
GENERAL	1 - 12	G-001 TO G-012
GEOMETRIC	13 - 14	HC-101 TO HC-102
UTILITY	15 - 20	UT-201 TO UT-206
REMOVAL	21 - 24	RM-301 TO RM-304
PLAN AND PROFILE	25 - 51	C-401 TO C-427
STRUCTURE	52 - 60	S-501 TO S-509
SWAMP	61 - 79	SW-601 TO SW-619
SIGNING & STRIPING	80 - 83	SS-701 TO SS-704
DETAILS	84 - 86	DT-801 TO DT-803
CROSS SECTIONS	87 - 119	XS-901 TO XS-933

UTILITY OWNER	UTILITY TYPE	UTILITY CONTACT
LEFT HAND WATER DISTRICT	WATER	720-405-7218
CENTURY LINK / LUMEN	TELEPHONE & FIBER OPTICS	303-457-1881
COMCAST	CABLE TELEVISION	720-275-0572
XCEL ENERGY	ELECTRIC & GAS	720-445-1588
ANADARKO/OXY WINDSTREAM	GAS	970-324-4751
UNITED POWER	ELECTRIC	303-827-4497
BOULDER COUNTY PUBLIC WORKS DEPT.	TRAFFIC CONTROL	303-682-6715
RTD	RAILROAD RIGHT-OF-WAY	303-299-2420

Plot Date: 1/17/2024 10:29 AM Plotted By: Kevin T. Smith
 File: \\JUB-COM\CENTRAL\CLIENTS\CO\BOULDERCOUNTY\PROJECTS\87-20-008-95TH-ST\DESIGN\DESIGN\CAD\SHEET\87-20-008-G-001.DWG
 Date Created: 10/16/2023



Know what's below.
Call before you dig.

Print Date: 1/17/2024

Scale: AS NOTED



4745 Boardwalk Drive Building D, Suite 200
Fort Collins, CO 80525
Phone: 970.377.3602



Sheet Revisions

Date:	Comments	Init.
01/16/24	ADDENDUM #1	KTS



As Constructed

No Revisions:
Revised:
Void:

95TH ST. RECONSTRUCTION DESIGN
TITLE SHEET

Designer: JTEMPLE
Detailer: KSMITH
Structure Numbers
Sheet Subset: GENERAL
Subset Sheets: 1 of 12

Project No.

101909-30

Drawing Number G-001

Sheet Number 1 of 119

ADVERTISEMENT SET

GENERAL NOTES

- G1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE 2023 COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, BOULDER COUNTY MULTIMODAL TRANSPORTATION STANDARDS, CDOT M&S STANDARDS, NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE MOST RESTRICTIVE STANDARD SHALL APPLY. ALL WORK SHALL BE INSPECTED BY BOULDER COUNTY.
- G2. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH BOULDER COUNTY AND ALL UTILITY COMPANIES INVOLVED, WITH REGARD TO RELOCATIONS, ADJUSTMENTS, 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, IN ADVANCE, ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE AS WELL AS THE UTILITY COMPANIES.
- G3. THE CONTRACTOR SHALL HAVE, ONSITE AT ALL TIMES, AN UP TO DATE STORMWATER MANAGEMENT PLAN, A BMP MAINTENANCE FOLDER, ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB.
- G4. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. REVIEW OF PLANS AND CONSTRUCTION IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- G5. OPEN EXCAVATIONS SHALL NOT BE ALLOWED WHEN CONSTRUCTION WORK IS NOT IN PROGRESS (INCLUDING OVERNIGHT, WEEKENDS, AND HOLIDAYS). METHOD(S) OF PROTECTING EXCAVATIONS, FROM VEHICLES AND PEDESTRIANS, INCLUDING METAL PLATES OR CONCRETE BARRIERS, SHALL BE APPROVED BY THE ENGINEER. THE COST OF PROTECTION OF EXCAVATIONS WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK. REFER TO OSHA PUBLICATION 2226, EXCAVATING AND TRENCHING REQUIREMENTS.
- G6. THE ENGINEER MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT BOULDER COUNTY IMMEDIATELY.
- G7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL AND NOTIFICATION OF THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE ENGINEER WAS NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
- G8. ALL REFERENCES TO ANY PUBLISHED STANDARDS (M&S, NEC, CDOT STANDARD SPECIFICATIONS, BOULDER COUNTY) SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- G9. MUD AND DEBRIS MUST BE REMOVED FROM ALL ROADWAY SURFACES BY THE END OF EACH WORKING DAY BY AN APPROPRIATE MECHANICAL METHOD (I.E. STREET SWEEPER, LIGHT DUTY FRONT-END LOADER, ETC.) OR AS APPROVED BY BOULDER COUNTY. POWER BROOMS WILL NOT BE ACCEPTABLE—MUST USE STREET SWEEPER.
- G10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON A COMPUTER GENERATED SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE, AND AVAILABLE TO BOULDER COUNTY INSPECTOR AT ALL TIMES. THESE UPDATES SHALL BE DONE AS WORK PROGRESSES. PREPARATION OF AS-BUILT PLANS WILL NOT BE PAID FOR SEPARATELY. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT TWO SETS OF RECORD DRAWINGS, "AS-CONSTRUCTED" PLANS, AND ANY OTHER ADDITIONAL DATA REQUIRED BY THE ENGINEER TO CDOT SHOWING THE ACTUAL LOCATION OF CONDUIT, ITS DEVICES, PULL BOXES, AND OTHER SIGNIFICANT WORK. "AS-CONSTRUCTED" PLANS SHALL BE THE FULL CONSTRUCTION SET WITH ANY CHANGES AND SHALL BE COMPUTER GENERATED. "AS-CONSTRUCTED" PLANS SHALL INCLUDE ALL ITEMS INSTALLED WITH CORRESPONDING QUANTITIES, MARKED UP DIGITALLY WITH HIGHLIGHTING OF ITEMS IMPLEMENTED. THESE AS-CONSTRUCTED SETS SHALL MATCH THE PAY ESTIMATES IN TERMS OF QUANTITIES AND WILL BE PRODUCED AT NO ADDITIONAL CHARGE TO THE PROJECT. THESE PLANS WILL BE REQUIRED BEFORE PROJECT ACCEPTANCE, THE FINAL MONTHLY PROGRESS PAYMENT AND THE CDOT FINALS UNIT'S PAYMENT OF RETAINAGE IS PROCESSED.
- G11. 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 AREA IS STABILIZED WITH HARD SURFACE OR LANDSCAPING. TO MITIGATE EROSION, THE CONTRACTOR SHALL USE STANDARD EROSION CONTROL TECHNIQUES PER THE CDOT M & S STANDARD PLAN M-208-1.
- G12. 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 AS REQUIRED BY THESE PLANS.
- G13. THE CONTRACTOR SHALL PROCEED WITH ALL PERMIT ACQUISITION AS SOON AS DEEMED NECESSARY FOLLOWING THE NOTICE OF AWARD. NO CONTRACT DELAYS OR EXTENSIONS WILL BE GRANTED TO THE CONTRACTOR FOR FAILURE TO DEVELOP THE REQUIRED PLANS AND OBTAIN THE REQUIRED STATE, COUNTY, OR CITY PERMITS IN A TIMEFRAME NECESSARY TO BEGIN THE WORK AS SPECIFIED IN THE CONTRACT. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS NEEDED TO COMPLETE THE PROJECT. COSTS FOR PERMITS SHALL BE INCLUDED IN THE COST OF THE PROJECT.
- G14. ALL STATIONING IS BASED ON PROPOSED CENTERLINE OF 95TH STREET, UNLESS OTHERWISE NOTED.
- G15. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCES BEYOND THESE LIMITS SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURE SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT. DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS. ANY OFF ROAD STAGING AREAS MUST BE PRE-APPROVED BY THE PROJECT ENGINEER.
- G16. 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.

- G17. THE CONTRACTOR SHALL PROVIDE A CERTIFIED SCALE AND CERTIFIED WEIGHER AT THE POINT OF LOADING FOR ALL AGGREGATES, CEMENT, FLY ASH, AND WATER DELIVERED TO THE PROJECT. A CERTIFIED TICKET SHALL BE PROVIDED FOR EACH LOAD OF MATERIAL DELIVERED TO THE PROJECT. THE TICKET SHALL SHOW GROSS, TARE, AND NET WEIGHTS. THE CONTRACTOR SHALL NOT DELIVER ANY LOAD EXCEEDING THE LEGAL WEIGHT LIMIT. DELIVERY OF ANY OVERWEIGHT LOADS MAY RESULT IN WITHHOLDING OF MONTHLY PAYMENT FOR THE RELATED ITEM.
- G18. ALL EXCESS MATERIAL GENERATED WITHIN THE PROJECT LIMITS SHALL BE REMOVED FROM THE PROJECT SITE AT NO COST TO THE PROJECT UNLESS SPECIFIED BY THE PLANS.
- G19. 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.GOV/ENVIRONMENT/TRASH/HAULER-LICENSE/](https://www.bouldercounty.gov/environment/trash/hauler-license/).
- G20. BOULDER COUNTY IS WITHIN THE QUARANTINE AREA FOR REMOVAL/TRIMMING OF CERTAIN TREE SPECIES. THE CONTRACTOR SHALL DISPOSE OF ANY TREE MATERIAL AT AN APPROPRIATE RECEIVING FACILITY. INFORMATION REGARDING QUARANTINE DISPOSAL CAN BE FOUND AT: [HTTPS://WWW.COLORADO.GOV/PACIFIC/AGPLANTS/EAB-QUARANTINE-INFORMATION](https://www.colorado.gov/pacific/agplants/eab-quarantine-information)
- G21. THE GEOTECHNICAL REPORT BY AECOM DATED JANUARY 2017, DESIGNATES THE CONCRETE SULFATE EXPOSURE FOR THIS PROJECT TO BE CLASS 0. ADDITIONAL GEOTECHNICAL REPORTING WAS DONE BY TERRACON IN 2022 FOR INFORMATION ON THE CULVERT INSTALLATION.
- G22. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY, RIGHT-OF-WAY, AND SECTION CORNER MONUMENTATION DURING CONSTRUCTION OPERATIONS UNLESS INSTRUCTED OTHERWISE. ANY MONUMENTS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE RESET BY A COLORADO LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE, IN ACCORDANCE WITH SECTION 629 AND THE MOST RECENT VERSION OF THE R.O.W. MANUAL. THE CONTRACTOR SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION.
- G23. THERE WILL BE NO STOCKPILING OR SIDECASTING OF WASTE MATERIALS WITHIN PUBLIC RIGHT-OF-WAY, INCLUDING, BUT NOT LIMITED TO, PAINT CHIPS, CONCRETE, SOILS, TRAFFIC SIGNAL EQUIPMENT, SIGNAGE, ETC THAT COULD POTENTIALLY RESULT FROM PROJECT ACTIVITIES. REMOVAL IS INCIDENTAL AND NOT AT ADDITIONAL COST TO PROJECT.
- G24. ANY DAMAGE TO PRESENT 95TH STREET SHALL BE REPAIRED IMMEDIATELY AND PRIOR TO CONTINUING OTHER WORK. ANY MUD OR OTHER MATERIAL TRACKED OR OTHERWISE DEPOSITED ON THE ROADWAY SHALL BE REMOVED DAILY OR AS ORDERED BY THE INSPECTOR. REMOVAL IS INCIDENTAL AND NOT AT ADDITIONAL COST TO PROJECT
- G25. THE CONTRACTOR SHALL KEEP A COPY OF APPROVED PLANS AND SPECIFICATIONS ON SITE AT ALL TIMES.
- G26. PROGRESS ESTIMATES WILL BE WITHHELD DUE TO MISSING REQUIRED MATERIALS DOCUMENTATION (INCLUDING BUY AMERICA DOCUMENTATION), TCS DIARIES, BORE/POTHOLE LOGS, EEO DOCUMENTATION, PAYROLLS, AND SCHEDULES. PROJECT ACCEPTANCE WILL REQUIRE ALL DOCUMENTATION TO BE SUBMITTED AND ENGINEER RESERVES RIGHT TO CHARGE PROJECT TIME FOR THESE DOCUMENTS EVEN IF CONSTRUCTION IS COMPLETE.

CONSTRUCTION NOTES

- C1. REMOVAL OF ASPHALT MAT REQUIRED ON THIS PROJECT SHALL BE SAW CUT TO A NEAT WORKING LINE WITH A VERTICAL EDGE. COST OF SAWING TO BE INCLUDED IN WORK, REGARDLESS OF ASPHALT MAT DEPTH.
- C2. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS 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.
- C3. LIMITS OF CONSTRUCTION SHALL BE CONFINED TO PUBLIC RIGHTS-OF-WAY, EASEMENTS, CONSTRUCTION LIMIT AREAS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- C4. BOULDER COUNTY AND CONTRACTOR SHALL COMPLY WITH PROVISIONS OF TEMPORARY ACCESS AND CONSTRUCTION AGREEMENT FOR ALL WORK ON CITY OF BOULDER PROPERTY.
- C5. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS, IRRIGATION, OR UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL ASSOCIATED COSTS FOR IMPROVEMENTS REPAIR SHALL BE PAID FOR BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- C6. PLASTIC FENCE IS A RESET ITEM AND WILL BE PAID FOR MAXIMUM OCCURANCE IN ANY GIVEN DAY. THIS SHALL BE PART OF PAY ITEM #607-11525.

EARTHWORK NOTES

- E1. WATER SHALL BE USED AS A DUST PALLIATIVE, WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED. WATER USED FOR DUST PALLIATIVE AND TO OBTAIN MOISTURE DENSITY WILL NOT BE PAID FOR SEPARATELY. DEPTH OF MOISTURE - DENSITY CONTROL FOR THIS PROJECT SHALL ADHERE TO THE RECOMMENDATIONS SET FORTH IN THE CDOT SPECIFICATIONS.
- 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. DEPTH OF TOPSOIL SHALL BE 6 INCHES. FINAL GRADES SHOWN REFLECT A MINIMUM OF 6 INCHES OF TOPSOIL PLACED ON ALL DISTURBED AREAS NOT SURFACED. TOPSOIL TO BE USED IS SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.
- E4. SEE DRAWING G-008 FOR DETAILED EARTHWORK NOTES AND TABULATIONS.
- E5. R-VALUE (MINIMUM REQUIREMENT): EMBANKMENT WITHIN ROADWAY PRISM = 40, EMBANKMENT OUTSIDE THE ROADWAY PRISM = 10, A.B.C. CL. 6 = 78.

SIGNING, STRIPING, TRAFFIC CONTROL NOTES

- S1. ALL EXISTING MARKINGS THAT CONFLICT WITH PROPOSED CONSTRUCTION TRAFFIC CONTROL SHALL BE OBLITERATED AND INCLUDED IN THE COST OF TRAFFIC CONTROL.
 - S2. SIGN POSTS SHALL BE 2' X 2' X 10' (14 GAUGE) GALVANIZED PERFORATED SQUARE STEEL TUBING.
 - S3. SIGN POST BASES SHALL BE 2 1/4" X 2 1/4" (12 GAUGE, 3' IN LENGTH) GALVANIZED PERFORATED SQUARE STEEL TUBING.
 - S4. BASES, FASTENERS AND LABOR FOR INSTALLATION SHALL BE INCLUDED IN THE COST FOR SIGN POSTS. TOP OF BASES SHALL BE 3" ± ABOVE FINISHED GRADE. THE SIGN POST SHALL BE INSTALLED 4" INTO THE BASE AND BOLTED BOTH WAYS.
 - S5. SIGN POST LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND ROAD MAINTENANCE SIGN SHOP REPRESENTATIVE PRIOR TO INSTALLATION.
- PAVEMENT MARKINGS:**
- S6. FINAL PAVEMENT STRIPING SHALL BE MODIFIED EPOXY PER CDOT STANDARD SPECIFICATIONS.
 - S7. ALL STOP LINES, CROSSWALKS AND PAVEMENT MARKING SYMBOLS SHALL BE WHITE, PREFORMED THERMOPLASTIC, "PREMARK" OR EQUIVALENT.
 - S8. PAVEMENT MARKING ARROWS OUTSIDE SHALL BE ELONGATED.
 - S9. BICYCLE DETECTOR PAVEMENT MARKINGS SHALL BE PER MUTCD FIG. 9C-7 B WITH HELMETED BICYCLE SYMBOL.
 - S10. PAVEMENT MARKINGS FOR BIKE LANES SHALL BE PER MUTCD FIG. 9C-3 B WITH HELMETED BICYCLE SYMBOL.
 - S11. CONTRACTOR SHALL SUBMIT A STRIPING LAYOUT TO BOULDER COUNTY FOR REVIEW AND APPROVAL. ALL STRIPING SHALL BE CAT-TRACKED WITH TEMPORARY STRIPING FOR A PERIOD OF NO LESS THAN THREE-DAYS TO ALLOW FOR COUNTY REVIEW, BEFORE FINAL STRIPING IS INSTALLED.

TRAFFIC CONTROL:

- S12. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION TRAFFIC MANAGEMENT PLAN (T.M.P.) IN ACCORDANCE WITH CDOT STANDARD SPECIFICATION 630.10 FOR A SIGNIFICANT PROJECT. THE T.M.P. SHALL INCLUDE A TRAFFIC CONTROL PLAN CONFORMING TO THE MUTCD, FOR APPROVAL BY BOULDER COUNTY, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES. CONSTRUCTION MAY NOT COMMENCE UNTIL THE T.M.P. HAS BEEN GRANTED APPROVAL. STRIPING SHALL BE BROUGHT TO FULL-COMPLIANCE AT THE END OF EACH WORK DAY.
- S13. ALL EQUIPMENT AND LABOR REQUIRED TO SAFELY PERFORM TRAFFIC CONTROL SHALL BE INCLUDED IN THE COST OF THE ITEM(S).
- S14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING TRAFFIC CONTROL DEVICES SO THAT THE WORK ZONES ARE IN FULL COMPLIANCE WITH MUTCD AND CDOT STANDARDS AT ALL TIMES INCLUDING CYCLIST AND PEDESTRIANS TRAFFIC.
- S15. TRAFFIC CONTROL SUPERVISOR (TCS) DIARIES SHALL BE GIVEN TO PROJECT ENGINEER AT INTERVALS NO LONGER THAN WEEKLY AND WILL BE REQUIRED FOR PAYMENT. IF THERE ARE DISCREPANCIES BETWEEN TCS DIARY AND INSPECTOR DIARY, INSPECTOR DIARY SHALL PREVAIL WITH ANY DIFFERENCES BROUGHT UP BY TCS AT NEXT WEEKLY PROJECT MEETING TO BE RESOLVED.

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Sheet Revisions		
Date:	Comments	Init.
01/16/24	ADDENDUM #1 (NOTE E5)	KTS



As Constructed	95TH ST. RECONSTRUCTION DESIGN		Project No. 101909-30
	GENERAL NOTES		
	No Revisions:	Designer: JTEMPLE	Structure Numbers
Revised:	Detailer: KSMITH		Sheet Number 3 of 12
Void:	Sheet Subset: GENERAL	Subset Sheets: 3 of 12	Sheet Number 3 of 12

UTILITY NOTES

- U1. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING PAVEMENT AND UTILITIES AT THE POINTS OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING NEW IMPROVEMENTS. IF A CONFLICT EXISTS 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.
- U2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS 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. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, C.R.S. (EXCAVATION REQUIREMENTS) COLORADO UTILITY LAW WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITIES.
- U3. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-800-922-1987 OR 811 OR ONLINE AT COLORADO811.ORG AT LEAST THREE (3) WORKING DAYS (PREFERRED FIVE (5) WORKING DAYS) PRIOR TO BEGINNING EXCAVATION OR GRADING, TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. OTHER UNREGISTERED UTILITY ENTITIES (I.E. DITCH / IRRIGATION COMPANY) ARE TO BE LOCATED BY CONTACTING THE RESPECTIVE REPRESENTATIVE. UTILITY SERVICE LATERALS ARE ALSO TO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. ONCE MARKED, MARKS ARE ONLY VALID FOR 30 CALENDAR DAYS FROM THE DATE OF LOCATE, OR UNTIL NO LONGER VISIBLE, WHICHEVER COMES FIRST.
- U4. THE CONTRACTOR SHALL BE AWARE OF COLORADO SENATE BILL 18-167, WHICH INCREASES ENFORCEMENT OF REQUIREMENTS RELATED TO THE LOCATION OF UNDERGROUND FACILITIES. A LEVEL "D" S.U.E. HAS BEEN PERFORMED FOR THE A PORTION OF THE PROJECT, WITH INFORMATION PROVIDED IN THE SUBSURFACE UTILITY LOCATIONS FOR 95TH STREET RELOCATION DESIGN BOULDER CREEK TO LOOKOUT ROAD, DATED APRIL 21, 2022 BY AYRES AND ASSOCIATES. SUPPLEMENTAL S.U.E. PLAN SHEETS WILL BE INCLUDED WITH THESE CONSTRUCTION PLANS FOR REFERENCE.
- U5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MEANS REQUIRED TO PROTECT EXISTING UTILITIES AND/OR TO WORK AROUND SUCH UTILITIES. THIS INCLUDES BUT IS NOT LIMITED TO SUPPORTING EXISTING UTILITIES, SHORING AROUND EXISTING UTILITIES AND PHASING/TRAFFIC CONTROL.
- U6. UTILITY CONTACT LIST:
THE FOLLOWING IS A LIST OF KNOWN UTILITIES WITH SERVICE WITHIN THE PROJECT AREA AND THE CONTACT INDIVIDUALS:
AGENCY {UTILITY} CONTACT {PHONE}
- XCEL ENERGY {GAS} MIKE O'SHEA [720-985-7742]
- XCEL ENERGY {ELECTRIC} CHRISTOPHER CORBIN []
- COMCAST {FIBER OPTIC} KEVIN YOUNG [720-281-8666]
- BOULDER COUNTY PARKS & OPEN SPACE {IRRIGATION} [303-678-6200]
- LEFT HAND WATER {WATER} STEVE BUCKBEE [303-530-4200]
- CENTURY LINK / LUMEN {TELEPHONE & FIBER} [303-457-1881]
- U7. UTILITY RELOCATIONS WHICH ARE REQUIRED TO BE DONE BY UTILITY COMPANIES SHALL BE COMPLETED BY THE RESPECTIVE OWNER PRIOR TO THE START OF CONSTRUCTION. UTILITY RELOCATIONS PERFORMED AS PART OF THE CONSTRUCTION CONTRACT SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER IN ACCORDANCE WITH ACCEPTED DESIGN.
- U8. IF UNDERGROUND UTILITIES ARE EXPOSED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER OF THE FACILITY TO ALLOW THE INSPECTION OF THE FACILITY FOR DAMAGE. ANY EXISTING UTILITY LINES THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THIS EXPENSE SHALL CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- U9. XCEL ENERGY REQUIRES A 2 WEEK NOTICE PRIOR TO WORKING AROUND THEIR HIGH-PRESSURE GAS LINES TO ENSURE A REPRESENTATIVE IS ONSITE DURING EXCAVATION.

PAVEMENT NOTES

- P1. FOR PLAN QUANTITIES OF PAVEMENT MATERIAL, THE FOLLOWING RATES OF APPLICATION WERE USED:
AGGREGATE BASE COURSE @136 LBS. PER CU. FT.
HOT MIX ASPHALT @111 LBS. PER SQ. YD./INCH
TACK COAT DILUTED EMULSIFIED ASPHALT (SLOW-SETTING) @0.1 GALS. PER SQ. YD (DILUTED)
- P2. 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
- ADJACENT TO EXISTING PAVEMENT, AND OTHER SURFACES AGAINST WHICH ASPHALT IS PLACED
- BETWEEN PAVEMENT COURSES WHEN ORDERED BY ENGINEER
- THIS WORK SHALL BE SUBSIDIARY TO THE HMA BID ITEMS.
- P3. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
- P4. THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER:
A. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH
B. SHORT SKI OR SHOE
C. 1500 FEET OF CONTROL LINE AND STAKES (WHERE POSSIBLE)
- P5. BOULDER COUNTY MAY ELECT TO PERFORM INDEPENDENT ASSURANCE TESTING ON THE PROJECT TO MONITOR CONFORMANCE TO CDOT STANDARDS.
- P6. THE PAVEMENT SMOOTHNESS CATEGORY SHALL BE MRI CATEGORY I.

DRAINAGE / STORM SEWER NOTES

- D1. THE CONTRACTOR IS REQUIRED TO KEEP ALL DRAINAGE FACILITIES FUNCTIONAL AND MAINTAIN DRAINAGE TO THOSE FACILITIES AT ALL TIMES DURING CONSTRUCTION.
- D2. THIS PROJECT IS SHOWN ON FEMA MAP NUMBER 08013C0417J (BOULDER COUNTY) CURRENT EFFECTIVE MAP DATE 12/18/2012. A PORTION OF THE PROJECT IS IN THE FLOODPLAIN.
- D3. THE CONTRACTOR SHALL COMPLY WITH THE BOULDER COUNTY FLOODPLAIN DEVELOPMENT PERMIT. A COPY OF THE PERMIT MAY BE OBTAINED FROM THE PROJECT ENGINEER.
- D4. ALL STORM SEWER REINFORCED CONCRETE PIPE SHALL MEET ASTM C-76, CLASS III STANDARDS.
- D5. ALL STORM SEWER PIPE JOINTS SHALL BE RUBBER O-RING TYPE PER ASTM C361

STORMWATER MANAGEMENT NOTES

- SM1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM EROSION AND SEDIMENT CONTROL MEASURES AND TO MAINTAIN CONSTRUCTED DRAINAGE FACILITIES THROUGHOUT THE CONSTRUCTION PROCESS IN A MANNER THAT PRESERVES THE INTENDED FUNCTION AND LIFE OF THE DRAINAGE FACILITIES.
- SM2. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED BEFORE CONSTRUCTION AND GRADING OPERATIONS BEGIN. ALL EROSION CONTROL MEASURES SHALL BE PLACED CONTINUALLY AS DRAINAGE FEATURES ARE BEING CONSTRUCTED. MEASURES SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETE AND SUBSTANTIALLY STABILIZED.
- SM3. SEE STORMWATER MANAGEMENT PLAN FOR SEEDING AND MULCHING NOTES.
- SM4. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE COLORADO PERMIT FOR STORM WATER DISCHARGE, THE STORM WATER MANAGEMENT PLAN, AND THE EROSION CONTROL PLAN.
- SM5. TOTAL DISTURBED AREA ON THIS PROJECT IS OVER 1 ACRE AND WILL REQUIRE A BOULDER COUNTY STORM WATER QUALITY PERMIT.

FOR MORE INFORMATION, REFER TO THE BOULDER COUNTY WEBSITE:
[HTTPS://WWW.BOULDERCOUNTY.GOV/TRANSPORTATION/PERMITS/STORMWATER-QUALITY-PERMIT](https://www.bouldercounty.gov/transportation/permits/stormwater-quality-permit)

ENVIRONMENTAL NOTES


- V1. SEE STORMWATER MANAGEMENT PLAN FOR ADDITIONAL ENVIRONMENTAL REQUIREMENTS
- V2. PERMITS
WETLAND/OPEN WATER PERMIT
• THE PROPOSED WORK AS SHOWN ON THE PLANS HAS BEEN PERMITTED BY THE U.S. ARMY CORPS OF ENGINEERS UNDER SECTION 404 OF THE CLEAN WATER ACT AND THE CITY OF BOULDER. IMPACTS TO WETLANDS AND OPEN WATER BEYOND THE PERMITTED AREAS IS PROHIBITED. THE CONTRACTOR SHALL COMPLY WITH ALL SPECIAL AND GENERAL CONDITIONS ATTACHED TO THE PERMITS.
CDPS PERMIT
• SINCE PROJECT ACTIVITIES RESULT IN ONE ACRE OR MORE OF EARTH DISTURBANCE A CDPS PERMIT WILL BE REQUIRED. THE CONTRACTOR SHALL NOT COMMENCE PERMIT-RELATED WORK UNTIL THE PERMIT IS RECEIVED. WORK PERFORMED MUST BE CONSISTENT WITH THAT DETAILED IN THE STORM WATER MANAGEMENT PLAN. A CDPE PERMIT IS NEEDED ON THIS PROJECT. SINCE THIS PROJECT IS OVER 1 ACRE, A BOULDER COUNTY STORM WATER QUALITY PERMIT (BCSQWP) IS REQUIRED.
- V3. CONSTRUCTION LIMITS
• THE LIMITS OF CONSTRUCTION MUST BE SHOWN ON THE SWMP AND FENCED PRIOR TO CONSTRUCTION TO AVOID ANY UN-PERMITTED IMPACTS. WORK ACTIVITIES, INCLUDING THE MOVEMENT AND PLACEMENT OF VEHICLES AND EQUIPMENT, SHALL NOT DISTURB STREAMBEDS, WETLANDS, OR RIPARIAN HABITAT EXCEPT THOSE PERMITTED. MINIMIZE THE NUMBER AND FOOTPRINT OF ACCESS ROUTES, STAGING AREAS, AND WORK AREAS. KEEP IMPACTS TO PREVIOUSLY DISTURBED AREAS TO THE EXTENT POSSIBLE.
• PER THE CITY OF BOULDER STREAM, WETLANDS, AND WATER BODY PROTECTION ORDINANCE (CITY WETLAND ORDINANCE), A CITY WETLAND PERMIT IS REQUIRED FOR IMPACTS TO WETLANDS, WATER BODIES, AND AN ADJACENT REGULATED BUFFER ON CITY-OWNED OSMP PROPERTY. THE REGULATED OPEN WATER/WETLAND BUFFER ON OSMP IS 50 FEET WIDE. THE 25 FEET AND 50 FEET BUFFERS ARE SHOWN ON DRAWING SW-618 AND ON EXHIBIT EX-01 WETLAND AND OPEN WATER IMPACTS PLAN VIEW.
- V4. **PROTECTION OF WETLANDS AND OPEN WATERS.**
• PRIOR TO CONSTRUCTION, PLACE ORANGE PLASTIC FENCE AND SEDIMENT CONTROL BMPS BETWEEN THE CONSTRUCTION LIMITS AND ALL WETLANDS/OPEN WATERS TO BE PROTECTED. THE LOCATION OF THE FENCE SHALL BE SHOWN ON THE SWMP.
• NON-GRADED IMPACTED WETLANDS AND NON-GRADED OPEN WATER AREAS WITH FLOW DIVERSIONS. IN ORDER TO DEFINE THE ORIGINAL GRADE, PREVENT SOIL COMPACTION, AND PROTECT VEGETATION ROOTS, THE FOLLOWING MEASURES ARE REQUIRED:
• PRIOR TO CONSTRUCTION, CUT ANY SHRUBS TO A HEIGHT OF THREE TO SIX INCHES. THEN COVER THE NON-GRADED IMPACTED WETLAND AREA WITH EITHER:
EROSION BLANKETS/SWMP MATS OR A LAYER OF GEOTEXTILE FABRIC, FOLLOWED BY A LAYER OF CERTIFIED WEED FREE STRAW THAT IS AT LEAST 6" DEEP, FOLLOWED BY A LAYER OF SOIL THAT IS AT LEAST 6" DEEP.
• DURING CONSTRUCTION, REPAIR AND REPLACE MATERIALS AS NEEDED.
• MINIMIZE THE TIME THAT WETLANDS AND OPEN WATERS ARE COVERED.
• UPON COMPLETION OF WORK, CAREFULLY REMOVE ALL MATS, FABRIC, STRAW, AND FILL FROM THE SITE. DO NOT ALLOW FILL MATERIAL TO SPILL IN ANY WETLAND OR OPEN WATER AREAS.
• IF CONSTRUCTION IS ONGOING IN THE AREA, INSTALL ORANGE CONSTRUCTION FENCING AND EROSION CONTROL BMPS TO PROTECT THE WETLANDS AND OPEN WATERS FROM ADDITIONAL IMPACTS.
• GRADING AND EXCAVATING OF WETLANDS AND OPEN WATER IS LIMITED TO AREAS DEFINED IN THE USACE PERMIT. ANY TEMPORARY CULVERTS OR FILLS MUST BE REMOVED IN THEIR ENTIRETY AND THE AFFECTED AREAS RETURNED TO PRE-CONSTRUCTION ELEVATIONS. FOLLOWING FINAL GRADING OR SEEDING, IF CONSTRUCTION IS ONGOING IN THE AREA, INSTALL ORANGE CONSTRUCTION FENCING AND EROSION CONTROL BMPS TO PROTECT THE EXISTING WETLANDS, WETLAND MITIGATION, AND OPEN WATERS FROM ADDITIONAL IMPACTS.
• PRIOR TO TREE REMOVAL, PLACE ORANGE PLASTIC FENCE AND SEDIMENT CONTROL BMPS BETWEEN THE CONSTRUCTION LIMITS AND ALL WETLANDS/OPEN WATERS TO BE PROTECTED PER THE SWMP. WETLANDS ON OSMP PROPERTY ARE REGULATED BY THE CITY AND NON-NATIVE TREE REMOVAL IS THE ONLY PERMITTED ACTIVITY IN THESE WETLANDS. NO GRADING, EXCAVATING, OR VEHICLES ARE PERMITTED IN EXISTING WETLANDS ON OSMP PROPERTY. CRANES OR OTHER VEHICLES USED FOR TREE REMOVAL MUST BE PARKED IN AND OPERATED FROM THE ADJACENT UPLANDS.
• ALL GRADING IMPACTS TO WETLANDS AND OPEN WATER UNDER U.S. ARMY CORPS OF ENGINEERS JURISDICTION ARE IN THE ROAD ROW NEAR STA. 168+00. THEY HAVE BEEN PERMITTED BY THE U.S. ARMY CORPS OF ENGINEERS. THEY DO NOT REQUIRE A CITY WETLAND PERMIT.
• ON OSMP PROPERTY NEAR STA. 161+00, A CITY WETLAND PERMIT IS REQUIRED FOR IMPACTS TO WETLANDS AND THE REGULATED WETLAND BUFFER. A CITY WETLAND PERMIT IS REQUIRED FOR THE FOLLOWING IMPACTS: GRADING IMPACTS TO THE WETLAND BUFFER (25' AND 50') AND WETLAND NON-NATIVE TREE REMOVAL FOR HABITAT ENHANCEMENT. NON-NATIVE TREE REMOVAL IS CONSIDERED A PERMANENT IMPACT FOR THE CITY OF BOULDER WETLAND PERMIT. THE U.S. ARMY CORPS DOES NOT CONSIDER TREE REMOVAL TO BE AN IMPACT OR REQUIRE A PERMIT BECAUSE THERE WOULD BE NO GRADING OR FILL IN WETLANDS.
• NO EQUIPMENT IS ALLOWED IN THE WETLANDS ON OSMP PROPERTY. ALL NON-NATIVE TREE REMOVAL FROM WETLANDS MUST BE COMPLETED FROM THE UPLANDS.
• THE CITY WETLAND PERMIT APPLICATION SHALL OBTAIN A SITE INSPECTION AND APPROVAL FROM CITY OF BOULDER FLOODPLAIN AND WETLANDS ADMINISTRATOR UPON COMPLETION OF THE PROJECT CONSTRUCTION.

- V5. **WEED CONTROL**
• WASH AND INSPECT VEHICLES AND EQUIPMENT BEFORE ENTERING OR LEAVING THE PROJECT AREA SO THAT THEY ARE FREE OF NOXIOUS WEED SEEDS AND PLANT PARTS. USE ONLY WEED FREE CERTIFIED MATERIALS, INCLUDING GRAVEL, SAND, TOPSOIL, SEED, AND MULCH. UPON PROJECT COMPLETION, RE-VEGETATE ALL DISTURBED AREAS WITH NATIVE SHRUBS, TREES, AND GRASSES.
- V6. **OSPREY NEST**
• THERE IS AN OSPREY NEST POLE ON OSMP PROPERTY NEAR STA. 158+00 (THE MAIN TREE REMOVAL AREA AND NEW DOUBLE BOX CULVERT LOCATION). NESTS ARE MONITORED BY OSMP. OSPREY NEST HERE BETWEEN APPROXIMATELY MARCH 15 AND SEPTEMBER 10. THE COLORADO PARKS AND WILDLIFE RECOMMENDED BUFFER ZONE IS NO SURFACE OCCUPANCY (BEYOND THAT WHICH HISTORICALLY OCCURRED IN THE AREA) WITHIN 1/4 MILE (1320 FEET) RADIUS OF THE ACTIVE NEST. OBTAIN OSMP ACCESS APPROVAL AND CONFIRMATION THAT THE OSPREY NEST IS NOT ACTIVE PRIOR TO WORKING IN THIS AREA (WORK INCLUDES ANY HUMAN ENTRY, TREE REMOVAL, CONSTRUCTION ACTIVITIES, OR PARKING VEHICLES/EQUIPMENT). FOLLOWING MAJOR CONSTRUCTION ACTIVITIES, COORDINATE WITH OSMP TO DETERMINE HOW TO BEST COMPLETE ONGOING IRRIGATION AND VEGETATION MANAGEMENT WITHOUT CAUSING AN ACTIVE OSPREY NEST TO FAIL. THIS OSPREY GUIDANCE TAKES PRIORITY OVER MORE GENERAL NOTES AND SPECS ON NESTING BIRDS. SEE SECTION 202 "REMOVAL OF TREES" FOR ADDITIONAL DETAILS.
- V7. **BIRDS. THE MIGRATORY BIRD TREATY ACT (MBTA)**
• PROTECTS NATIVE BIRDS AND THEIR NESTS AND EGGS PER SPECIFICATION 240.
- V8. **VEGETATION REMOVAL**
• BIRDS MAY NEST IN TREES OR IN VEGETATION ON THE GROUND. IN COLORADO, MOST NESTING AND REARING ACTIVITIES OCCUR BETWEEN APRIL 1 AND AUGUST 31. IN ORDER TO AVOID IMPACTS TO NESTING BIRDS, TREE TRIMMING/REMOVAL AND CLEARING/GRUBBING ACTIVITIES SHOULD BE COMPLETED BEFORE BIRDS BEGIN TO NEST OR AFTER THE YOUNG HAVE FLEDGED (BETWEEN SEPTEMBER 1 AND MARCH 31). IF THESE ACTIVITIES OCCUR BETWEEN APRIL 1 AND AUGUST 31, A NESTING BIRD SURVEY SHALL BE CONDUCTED BY A WILDLIFE BIOLOGIST WITHIN ONE WEEK PRIOR TO STARTING.
- V9. **MOWING**
• IF WORK ACTIVITIES ARE PLANNED BETWEEN APRIL 1 AND AUGUST 31, VEGETATION SHOULD BE REMOVED AND/OR TRIMMED TO A HEIGHT OF SIX (6) INCHES OR LESS PRIOR TO APRIL 1 TO PREVENT BIRDS FROM NESTING. 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.
- V10. **PRAIRIE DOGS**
• PRAIRIE DOGS ARE PRESENT NEAR LOOKOUT ROAD (STA. 230+00 TO STA. 246+00) AND BETWEEN LIGGETT DITCH AND WEST PHILLIPS ROAD (STA. 179+50 TO STA. 206+00). PRIOR TO CONSTRUCTION, USE PASSIVE RELOCATION FOR ANY BURROWS WITHIN THE LOD. A SUB-CONTRACTOR MAY BE NEEDED. RELOCATION SHOULD BE COMPLETED IN AUGUST OR SEPTEMBER (IT CAN BE COMPLETED FROM JUNE TO OCTOBER, BUT PRAIRIE DOGS WILL TYPICALLY TAKE LONGER TO MOVE). IF CONSTRUCTION WILL NOT OCCUR IMMEDIATELY AFTER RELOCATION, THEN INSTALL SILT FENCE TO KEEP PRAIRIE DOGS FROM RETURNING. FROM MARCH 15 TO OCTOBER 21, BURROWING OWL SURVEYS MUST BE COMPLETED PRIOR TO PRAIRIE DOG PASSIVE RELOCATION.
- V11. **BURROWING OWLS**
• BURROWING OWLS ARE KNOWN TO NEST NEAR LOOKOUT ROAD, FROM STA. 230+00 TO STA. 250+00. COLORADO PARKS AND WILDLIFE RECOMMENDS NO HUMAN ENCROACHMENT WITHIN 1/8 MILE (660 FEET, 200 METERS) OF NEST SITES FROM MARCH 15 THROUGH AUGUST 31 AND NO GROUND DISTURBANCE OF NEST SITES FROM MARCH 15 TO OCTOBER 21. THUS, IT IS RECOMMENDED THAT ALL WORK IN THESE AREAS BE STARTED BETWEEN OCTOBER 22 AND MARCH 14. IF WORK IS PLANNED AT OTHER TIMES, PRE-CONSTRUCTION SURVEYS FOR BURROWING OWLS MUST BE COMPLETED PER CPW'S "RECOMMENDED SURVEY PROTOCOL AND ACTIONS TO PROTECT NESTING BURROWING OWLS." THIS CONSISTS OF A SERIES OF THREE SURVEYS SEPARATED BY APPROXIMATELY ONE WEEK. THE FIRST SURVEY MUST BE COMPLETED APPROXIMATELY THREE WEEKS PRIOR TO THE CONSTRUCTION START DATE. THE LAST SURVEY MUST BE COMPLETED WITHIN THE SEVEN DAYS IMMEDIATELY PRIOR TO THE BEGINNING OF WORK. IF BURROWING OWLS ARE PRESENT, CPW COORDINATION IS REQUIRED AND CONSTRUCTION MAY BE DELAYED.

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Print Date: 1/16/2024

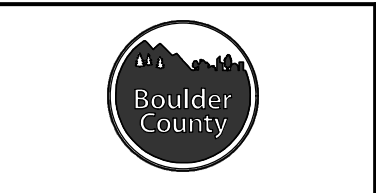
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As Constructed	95TH ST. RECONSTRUCTION DESIGN	Project No.
No Revisions:	GENERAL NOTES	101909-30
Revised:	Designer: JTEMPLE	Drawing Number G-004
Void:	Detailer: KSMITH	Sheet Number 4 of 119
	Sheet Subset: GENERAL	Subset Sheets: 4 of 12



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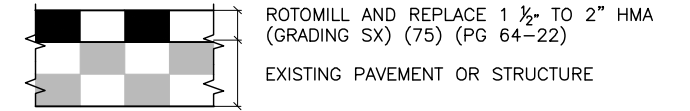
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TYPICAL SECTION NOTES:

1. LOCATION OF PAVEMENT SECTIONS A, B, & C VARIES THROUGHOUT PROJECT. REFER TO ROADWAY PLANS FOR PAVEMENT LOCATION.
2. UTILITY POT HOLING (QUALITY LEVEL A) WAS ONLY PERFORMED IN CERTAIN SECTIONS OF THE ROAD, NEAR THE BOX CULVERTS AND BY THE MAJOR CUTS AND TRAFFIC SIGNAL LOCATIONS. THE FULL LENGTH OF THE CORRIDOR WAS NOT PERFORMED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO UTILITIES ARE PRESENT WITHIN THE SCARIFY AND RECOMPACT LIMITS. IF UTILITIES ARE WITHIN THE SCARIFY AND RECOMPACT AREA, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER.
3. TYPE I/II CEMENT SHALL BE USED FOR ALL CONCRETE IN THIS PROJECT.

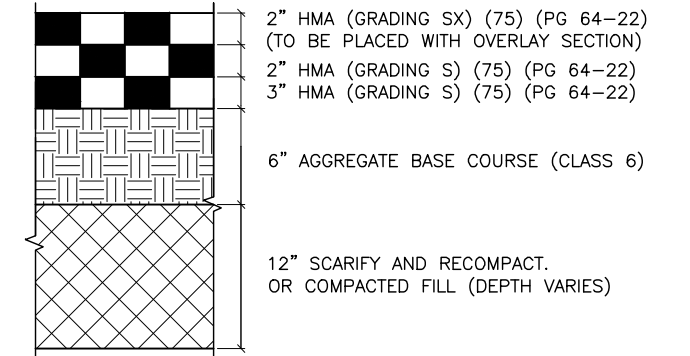
TYPICAL SECTION SYMBOLS

- ▲ BREAK POINTS IN SLOPES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- ▽ 2% ROADWAY CROSS SLOPE.
- ⊕ THE CONTRACTOR WILL BE REQUIRED TO PLACE 6 IN. OF TOPSOIL TO THIS LINE
- * EDGE OF EXISITNG PAVEMENT



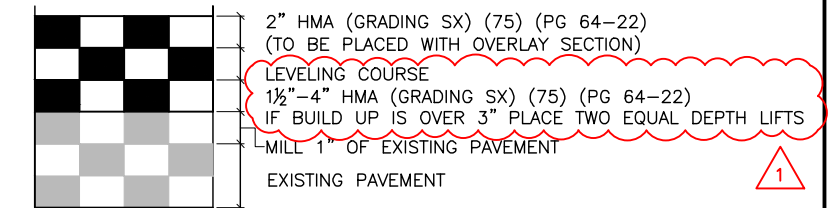
A MILL AND OVERLAY SECTION
SCALE: NONE

STA. 153+50.00 TO STA. 154+75.00
STA. 179+31.93 TO STA. 179+57.07



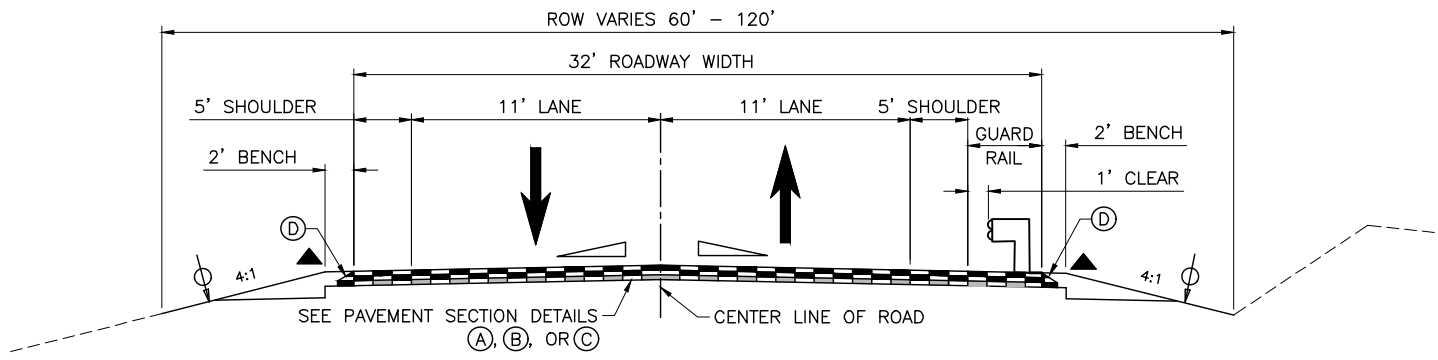
B FULL DEPTH ASPHALT SECTION
SCALE: NONE

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STA. 154+75.00 TO STA. 173+00.00
STA. 178+00.00 TO STA. 179+31.93
STA. 179+57.07 TO STA. 244+00.00

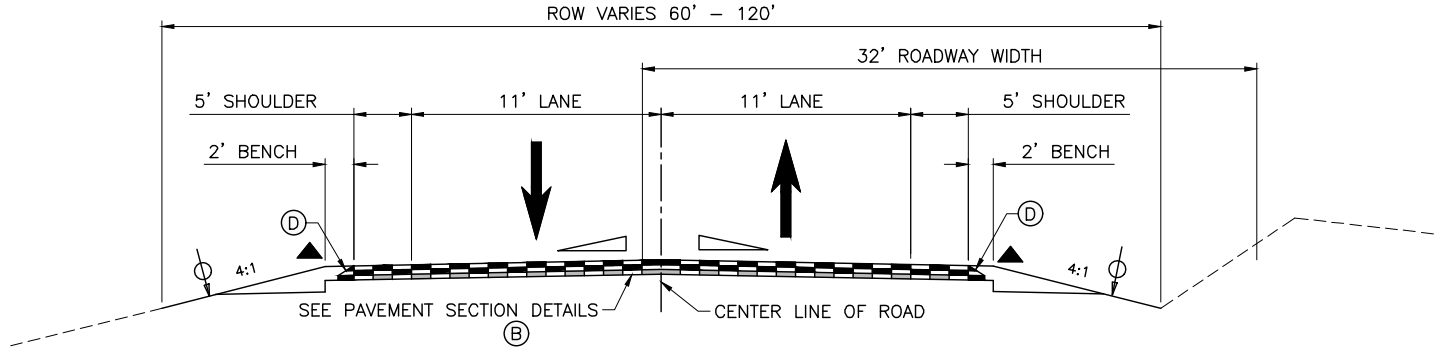


C ASPHALT BUILD UP SECTION
SCALE: NONE

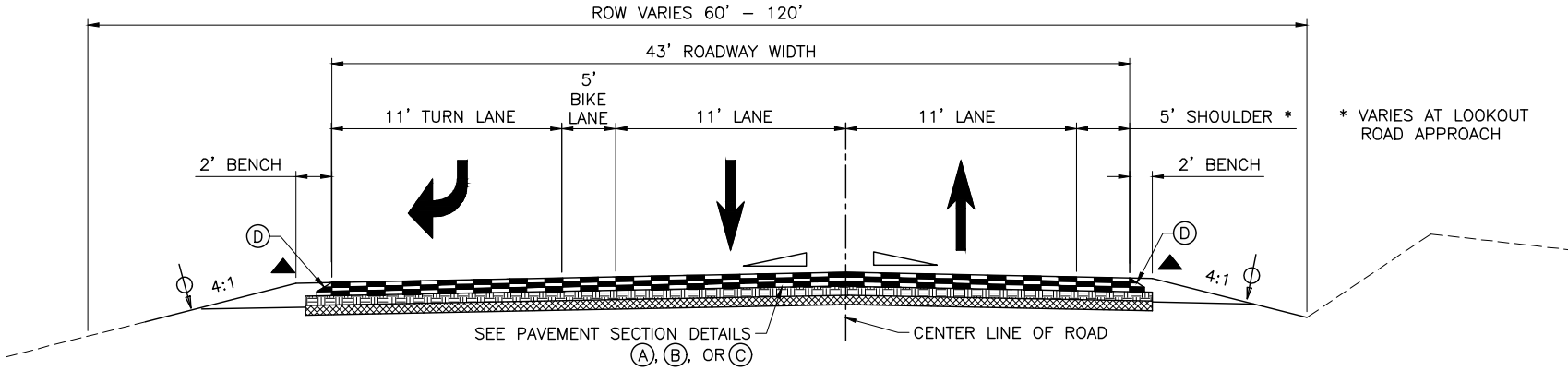
STA. 173+00.00 TO STA. 178+00.00



1 95TH STREET - 2 LANE WITH GUARDRAIL
STA. 151+00 TO STA. 158+75
STA. 178+50 TO STA. 181+00
STA. 197+50 TO STA. 200+00
EXCEPT AS NOTED



2 95TH STREET - 2 LANE
STA. 149+62.00 TO STA. 245+38.00
EXCEPT AS NOTED



3 95TH STREET - 3 LANE RIGHT TURN
STA. 195+00.00 TO STA. 196+53.99
STA. 215+00.00 TO STA. 218+30.05



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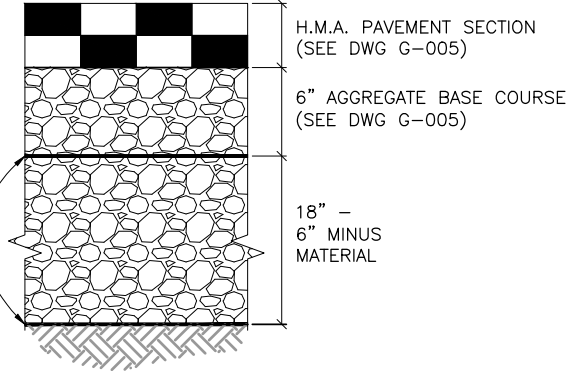
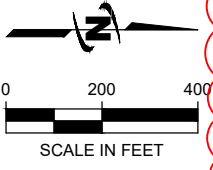
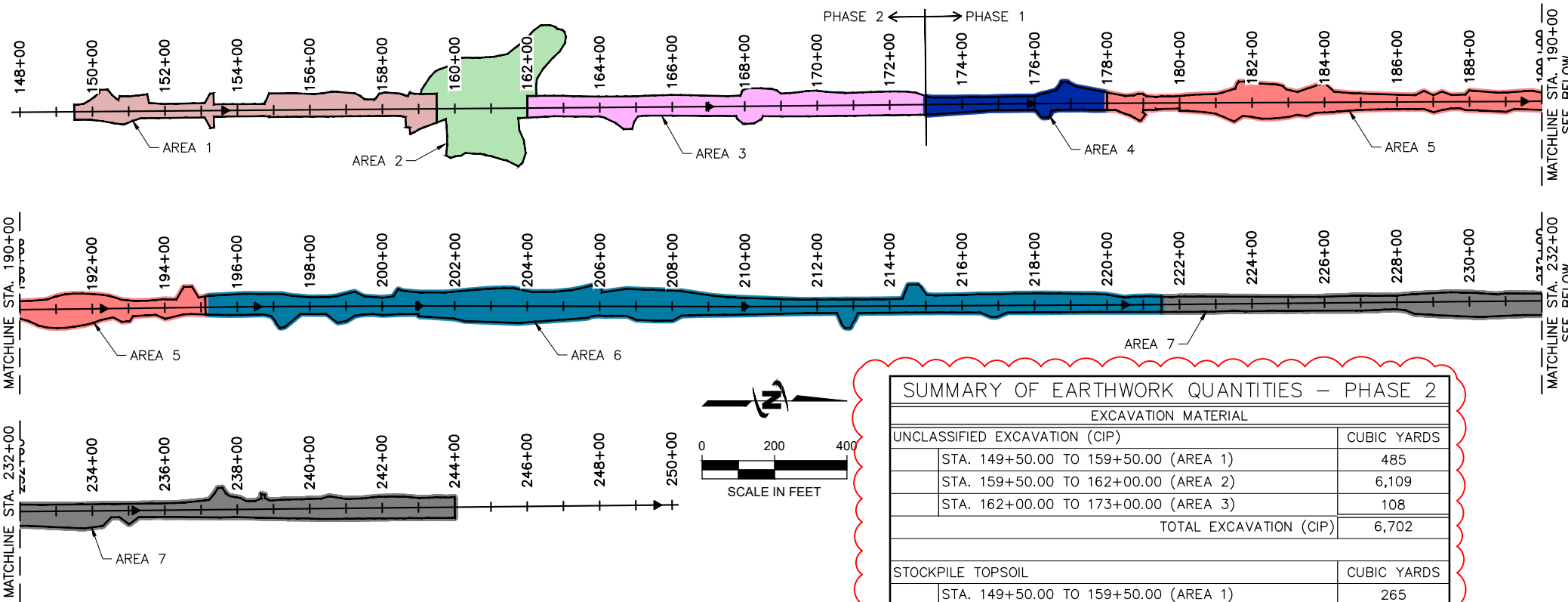
Sheet Revisions		
Date:	Comments	Init.
01/16/24	ADDENDUM #1	KTS



As Constructed	95TH ST. RECONSTRUCTION DESIGN TYPICAL SECTIONS	Project No. 101909-30
No Revisions:	Designer: JTEMPLE Detailer: KSMITH	Drawing Number G-005
Revised:	Structure Numbers	Sheet Number 5 of 12
Void:	Sheet Subset: GENERAL	Subst Sheets: 5 of 12

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Date Created: 1/13/2023



A SOFT SPOT REPAIR DETAIL
SCALE: NONE

IF THE CONTRACTOR ENCOUNTERS SUBGRADE THAT IS DETERMINED BY THE ENGINEER TO BE UNSTABLE, CONTRACTOR SHALL EXCAVATE 18" BELOW PLANNED AGGREGATE BASE COURSE (ABC). CONTRACTOR SHALL THEN INSTALL GEO-GRID ON SUBGRADE, PLACE & COMPACT 6" MINUS AGGREGATE TO BOTTOM OF ABC AND INSTALL AN ADDITIONAL GEO-GRID LAYER BEFORE PROCEEDING WITH PLACEMENT OF REMAINING PLANNED PAVEMENT SECTION. WORK SHALL INCLUDE EXCAVATION, HAULING AND DISPOSING OF UNSUITABLE MATERIAL, FURNISHING AND PLACING GEO-GRID FABRIC, FURNISHING AND PLACING IMPORTED MATERIAL SHOWN IN SOFT SPOT REPAIR DETAIL 'A', AND WILL BE ALL INCLUSIVE UNDER ITEM, 203-00050 - UNSUITABLE MATERIAL (CY). ENGINEER SHALL DETERMINE LIMITS IN THE FIELD.

SUMMARY OF EARTHWORK QUANTITIES - PHASE 2

EXCAVATION MATERIAL	
UNCLASSIFIED EXCAVATION (CIP)	CUBIC YARDS
STA. 149+50.00 TO 159+50.00 (AREA 1)	485
STA. 159+50.00 TO 162+00.00 (AREA 2)	6,109
STA. 162+00.00 TO 173+00.00 (AREA 3)	108
TOTAL EXCAVATION (CIP)	6,702
STOCKPILE TOPSOIL	CUBIC YARDS
STA. 149+50.00 TO 159+50.00 (AREA 1)	265
STA. 159+50.00 TO 162+00.00 (AREA 2)	1,112
STA. 162+00.00 TO 173+00.00 (AREA 3)	588
TOTAL STOCKPILE TOPSOIL	1,965
UNSUITABLE MATERIAL (CONTINGENCY)	CUBIC YARDS
STA. 159+50.00 TO 162+00.00 (AREA 2)	500
STA. 162+00.00 TO 173+00.00 (AREA 3)	500
TOTAL SOIL RECOMPACTION	1,000
STRUCTURE EXCAVATION	CUBIC YARDS
STA. 159+50.00 TO 162+00.00 (AREA 2)	5,120
STA. 162+00.00 TO 173+00.00 (AREA 3)	500
TOTAL STRUCTURE EXCAVATION	5,620
EMBANKMENT MATERIAL	CUBIC YARDS
EMBANKMENT MATERIAL (CIP) - (FOR INFORMATION ONLY)	CUBIC YARDS
STA. 149+50.00 TO 159+50.00 (AREA 1)	386
STA. 159+50.00 TO 162+00.00 (AREA 2)	226
STA. 162+00.00 TO 173+00.00 (AREA 3)	1,856
TOTAL EMBANKMENT (CIP)	2,468
TOPSOIL	CUBIC YARDS
STA. 149+50.00 TO 159+50.00 (AREA 1)	265
STA. 159+50.00 TO 162+00.00 (AREA 2)	1,112
STA. 162+00.00 TO 173+00.00 (AREA 3)	588
TOTAL TOPSOIL	1,965
STRUCTURE BACKFILL (CLASS 1)	CUBIC YARDS
STA. 159+50.00 TO 162+00.00 (AREA 2)	1,050
STA. 162+00.00 TO 173+00.00 (AREA 3)	170
TOTAL STRUCTURE BACKFILL (CLASS 1)	1,220

HAUL OUT (FOR INFORMATION ONLY)
 UNCLASSIFIED EXCAVATION + STRUCTURE EXCAVATION - EMBANKMENT MATERIAL = HAUL OUT
 6,702 CY + 5,620 CY - 2,468 CY = 9,854 CY

SUMMARY OF EARTHWORK QUANTITIES - PHASE 1

EXCAVATION MATERIAL	
UNCLASSIFIED EXCAVATION (CIP)	CUBIC YARDS
STA. 173+00.00 TO 178+00.00 (AREA 4)	4
STA. 178+00.00 TO 195+12.00 (AREA 5)	427
STA. 195+12.00 TO 221+50.00 (AREA 6)	4,555
STA. 221+50.00 TO 244+00.00 (AREA 7)	1,559
TOTAL EXCAVATION (CIP)	6,545
STOCKPILE TOPSOIL	CUBIC YARDS
STA. 173+00.00 TO 178+00.00 (AREA 4)	128
STA. 178+00.00 TO 195+12.00 (AREA 5)	795
STA. 195+12.00 TO 221+50.00 (AREA 6)	932
STA. 221+50.00 TO 244+00.00 (AREA 7)	604
TOTAL STOCKPILE TOPSOIL	2,459
EMBANKMENT MATERIAL	CUBIC YARDS
EMBANKMENT MATERIAL (CIP) - (FOR INFORMATION ONLY)	CUBIC YARDS
STA. 173+00.00 TO 178+00.00 (AREA 4)	223
STA. 178+00.00 TO 195+12.00 (AREA 5)	4,938
STA. 195+12.00 TO 221+50.00 (AREA 6)	1,210
STA. 221+50.00 TO 244+00.00 (AREA 7)	699
TOTAL EMBANKMENT (CIP)	7,070
TOPSOIL	CUBIC YARDS
STA. 173+00.00 TO 178+00.00 (AREA 4)	128
STA. 178+00.00 TO 195+12.00 (AREA 5)	795
STA. 195+12.00 TO 221+50.00 (AREA 6)	932
STA. 221+50.00 TO 244+00.00 (AREA 7)	604
TOTAL TOPSOIL	2,459

BORROW (COMPLETE-IN-PLACE)
 EMBANKMENT MATERIAL - UNCLASSIFIED EXCAVATION = BORROW (CIP)
 7,070 CY - 6,545 CY = 525 CY

EARTHWORK NOTES

- EARTHWORK QUANTITIES ARE IN-PLACE MEASUREMENTS. NO SHRINK OR SWELL FACTORS WERE APPLIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INTERPRET THE SOIL CONDITION AND APPLY COMPACTION AND/OR SWELL FACTORS.
- SOIL R-VALUES SHALL BE AS FOLLOWS:
 EMBANKMENT WITHIN HMA ROADWAY PRISM ≥ 40
 EMBANKMENT OUTSIDE ROADWAY PRISM ≥ 10
 A.B.C CLASS 6 ≥ 78
 IT IS ANTICIPATED THAT EXCESS MATERIAL WILL BE GENERATED. ANY EXCAVATION ON THE PROJECT WILL BE ALLOWED FOR USE AS EMBANKMENT MATERIAL IF THE MATERIAL MEETS, OR CAN BE CONDITIONED TO MEET THE MINIMUM R-VALUES OUTLINED ABOVE. IT IS THE REQUIREMENT OF THE CONTRACTOR TO PERFORM R-VALUES TESTS. R-VALUE TESTS SHALL BE INCIDENTAL TO THE COST OF EXCAVATION.
- THE EARTHWORK QUANTITIES PRESENTED IN THESE TABLES REPRESENT VOLUMES CALCULATED FROM THE EXISTING GROUND ELEVATION, WHICH WAS SURVEYED PRIOR TO CONSTRUCTION.
- TOPSOIL QUANTITIES ARE BASED ON 6 INCHES PLACED ON ALL NEW SLOPES AND THAT THE REQUIRED AMOUNT WILL BE STRIPPED FROM THE TOP OF EXISTING SLOPES AND STOCKPILED.

EARTHWORK PAY ITEMS ON THIS PROJECT:

UNCLASSIFIED EXCAVATION (CIP)	13,247	CY
STOCKPILE TOPSOIL	4,424	CY
TOPSOIL	4,424	CY
UNSUITABLE MATERIAL	1,000	CY
STRUCTURE EXCAVATION	5,620	CY
STRUCTURE BACKFILL (CLASS 1)	1,220	CY
BORROW (COMPLETE-IN-PLACE)	525	CY

THE CONTRACTOR SHALL INCLUDE ALL EARTHWORK COST REQUIRED ON THIS PROJECT IN THE ITEMS LISTED ABOVE.

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As Constructed	95TH ST. RECONSTRUCTION DESIGN EARTHWORK TABULATION		Project No.
No Revisions:			101909-30
Revised:	Designer: JTEMPLE	Structure Numbers	Drawing Number G-008
Void:	Detailer: KSMITH	Sheet Subset: GENERAL	Sheet Number 8 of 12

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REMOVAL, RESET AND ADJUSTMENT ITEMS								
STATION/LOCATION	REMOVAL OF TREE*	REMOVAL OF PIPE	REMOVAL OF ASPHALT MAT	REMOVAL OF ASPHALT MAT (PLANING)	REMOVAL OF FENCE	REMOVAL OF GUARD RAIL	RESET MAILBOX STRUCTURE	RESET FIRE HYDRANT
95TH STREET	(LS)	(LF)	(SY)	(SY)	(LF)	(LF)	(EA)	(EA)
STA. 149+62.00 TO STA. 153+50.00			1,794					
STA. 153+50.00 TO STA. 154+74.85				472				
STA. 154+74.85 TO STA. 173+00.00			6,831					
STA. 159+74.28, 58.96' R TO STA. 161+77.28, 59.41' R					203			
STA. 168+03.41, 37.20' R TO STA. 168+03.25, 23.05' L		60						
STA. 168+15.74, 37.15' R TO STA. 168+14.47, 22.89' L		60						
STA. 173+00.00 TO STA. 178+00.00				1,713				
STA. 173+09.87, 44.44' R TO STA. 176+06.34, 24.24' R					298			
STA. 176+05.28 TO STA. 176+45.64			58					
STA. 176+48.82, 34.31' R TO STA. 178+66.89, 40.31' R					227			
STA. 178+00.00 TO STA. 179+31.50			573					
STA. 178+40.33, 21.08' L TO STA. 180+87.45, 21.33' L						248		
STA. 179+00.74, 21.29' R TO STA. 180+48.00, 20.53' R						148		
STA. 179+31.50 TO STA. 179+56.79				93				
STA. 179+56.79 TO STA. 244+00.00			27,208					
STA. 181+90.03, 19.23' R TO STA. 183+40.53, 17.89' R						151		
STA. 192+60.65', 32.07' R								1
STA. 192+74.09', 39.46' R								
STA. 197+33.75, 31.27' R							1	
STA. 197+40.52, 25.00' R TO STA. 199+90.61, 27.08' R						251		
STA. 237+26.75, 25.49' L							1	
PROJECT TOTAL	1	120	36,464	2,278	728	798	2	1

* FOR ITEMIZED TREE REMOVALS, SEE SPECIAL PROVISIONS SECTION 202.

MISCELLANEOUS ITEMS				
STATION/LOCATION	GUARDRAIL TYPE 3 (31 INCH MGS)	END ANCHORAGE (NONFLARED)	FENCE, WIRE WITH METAL POSTS (OSMP)	FENCE, WOOD
95TH STREET	(LF)	(EA)	(LF)	(LF)
STA. 159+11.31, 56.90' L TO STA. 162+25.02, 56.83' L			190	
STA. 159+74.28, 58.96' R TO STA. 161+77.28, 59.41' R			80	
STA. 173+09.76, 35.58' R TO STA. 176+07.79, 34.07' R				298
STA. 178+78.84, 19.08' L TO STA. 180+41.33, 16.95' L	163	2		
STA. 179+41.33, 17.56' R TO STA. 180+28.83, 16.44' R	88	2		
STA. 197+85.94, 16.40' R TO STA. 199+60.92, 18.32' R	175	2		
TOTALS	425	6	270	298



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Sheet Revisions

Date:	Comments	Init.
01/16/24	ADDENDUM #1	KTS



As Constructed

No Revisions:
 Revised:
 Void:

95TH ST. RECONSTRUCTION DESIGN TABULATIONS

Designer:	JTEMPLE	Structure Numbers	
Detailer:	KSMITH		
Sheet Subset:	GENERAL	Subset Sheets:	9 of 12

Project No.

101909-30
 Drawing Number G-009
 Sheet Number 9 of 119



ADVERTISEMENT SET

SURFACE ITEMS							
STATION/LOCATION	AREA (SF)	HOT MIX ASPHALT (GRADING SX) (75) (PG 64-22)	HOT MIX ASPHALT (GRADING S) (75) (PG 64-22)	AGGREGATE BASE COURSE (CLASS 6) (6 INCH)	RECONDITIONING	AGGREGATE BASE COURSE (CLASS 5)	ASPHALT (PATCHING)
		TON	TON	TON	SY	TON	TON
95TH STREET							
STA. 149+62.00 TO STA. 153+50.00	16149	199	498	549	1794		
STA. 153+50.00 TO STA. 154+74.85	4246	52					
STA. 154+74.85 TO STA. 173+00.00	60107	741	1853	2044	6679		
STA. 159+06.76, 46.55' L TO STA. 159+21.76, 44.48' L	168			4			
STA. 159+21.76, 44.48' L TO STA. 159+54.06, 16.86' L	958	18		5			
STA. 159+96.92, 36.31' R TO STA. 160+10.91, 17.01' R	655	12		4			
STA. 160+87 BOX CULVERT BEDDING	11616					1580	
STA. 161+00 BOX CULVERT BEDDING	1359					185	
STA. 164+09.74, 16.00' R TO STA. 165+01.20, 16.00' R	802	15		5			
STA. 164+26.42, 26.00' R TO STA. 164+88.64, 60.00' R	1338			30			
STA. 173+00.00 TO STA. 178+00.00	15407	190	570				
STA. 176+15.56, 15.68' L TO STA. 178+33.24, 15.59' L	1791	33		10			
STA. 176+25.46, 15.06' R TO STA. 176+28.05, 38.35' L	563	10		3			
STA. 176+58.88, 25.70' L TO STA. 177+88.22, 25.56' L	1845			42			
STA. 178+00.00 TO STA. 179+31.93	5157	64	159	175	573		
STA. 179+31.93 TO STA. 179+57.07	841	10					
STA. 179+57.07 TO STA. 244+00.00	239179	2950	7375	8132	26575		
STA. 181+20.97, 16.00' L TO STA. 182+91.74, 16.00' L	1507	28		9			
STA. 181+44.29, 25.85' L TO STA. 182+64.99, 26.00' L	1656			38			
STA. 192+66.98, 16.05' R TO STA. 193+12.44, 16.05' R	651	12		4			
STA. 196+90.75, 18.41' R TO STA. 197+37.04, 21.31' R	334	6		2			
STA. 197+09.08, 29.58' R TO STA. 197+55.66, 107.91' R	1271	24		29			
STA. 211+19.78, 19.80' R TO STA. 211+51.78, 19.71' R	259	5		1			
STA. 211+26.58, 29.78' R TO STA. 211+40.84, 48.62' R	237			5			
STA. 212+64.01, 19.42' R TO STA. 213+04.01, 19.31' R	747	14		4			
STA. 216+65.48, 17.83' R TO STA. 217+12.42, 17.60' R	281	5		2			
STA. 216+78.29, 25.43' R TO STA. 216+95.17, 31.48' R	105			2			
STA. 237+28.89, 16.91' L TO STA. 237+78.88, 17.43' L	391	7		2			
STA. 237+40.38, 27.03' L TO STA. 237+58.85, 59.02' L	464			11			
STA. 238+62.72, 19.83' L TO STA. 238+80.64, 20.20' L	134			3			
STA. 238+66.51, 29.98' L TO STA. 238+76.18, 39.53' L	102	2		1			
MILL & OVERLAY SECTIONS AS NEEDED							100
SUBTOTALS		4397	10455	11116	35621	1765	100
10% IRREGULARITIES		440	1046	1112	3562	176	0
TOTALS		370321	4837	11501	39183	1941	100

DRAINAGE ITEMS											
STORM DRAIN NETWORK	CORRUGATED METAL PIPE	CMP FLARED END SECTION	ELLIPTICAL CORRUGATED METAL PIPE			ELLIPTICAL CMP FLARED END SECTION			CONCRETE COLLAR	RIPRAP	CONCRETE BLOCK REVETMENT
	60 INCH	60 INCH	20" x 14"	28" x 18"	32" x 24"	20" x 14"	28" x 18"	32" x 24"		12 INCH	1.5 MAT
	(LF)	(EA)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(CY)	(SY)
STA. 161+00.00, 55.00' R										162	
STA. 168+09.03, 47.75' R										15	
STA. 169+00.00, 35.00' R											4555
STA. 181+98.60, 76.60' R								1			
STA. 182+42.93, 32.94' R					62				1		
STA. 198+65.99, 37.29' R									1		
STA. 198+87.25, 37.35' R	16	1									
STA. 230+14.01, 29.16' R			14			2			2		
STA. 233+77.50, 28.24' R				20			1		1		
PROJECT TOTAL	16	1	14	20	62	2	1	1	5	176	4555

Plot Date: 1/16/2024 1:49 PM Plotted By: Kevin T. Smith
 File: \\JUB.COM\CENTRAL\CLIENTS\CO\BOULDERCOUNTY\PROJECTS\87-20-008-95TH-ST\DESIGN\DESIGN\CAD\SHEET\87-20-008-G-010A.DWG
 Date Created: 1/16/2024

ADVERTISEMENT SET

Print Date: 1/16/2024	Sheet Revisions				As Constructed	95TH ST. RECONSTRUCTION DESIGN TABULATIONS		Project No.
Scale: AS NOTED	Date:	Comments	Init.		No Revisions:			101909-30
 4745 Boardwalk Drive Building D, Suite 200 Fort Collins, CO 80525 Phone: 970.377.3602	01/16/24	ADDENDUM #1 (ABC CL. 5)	KTS		Revised:	Designer: JTEMPLE	Structure Numbers	Drawing Number G-010
				Void:	Detailer: KSMITH		Sheet Number 10 of 119	
					Sheet Subset: GENERAL	Subset Sheets: 10 of 12		

Mandatory PRE-BID MEETING AGENDA

Date: January 04, 2024 Time: 10:00 AM. Project No. RD 019-050

Location: Boulder County PW Building with option of a [Microsoft Teams Meeting](#)

Description: **95th Street Reconstruction, Boulder Creek to Lookout Road**

Bid # 009-23

A. INTRODUCTIONS, SIGN-UP SHEET

1. Owners:
 - a. Boulder County
 - b. J-U-B

B. GENERAL DESCRIPTION

1. This is for the construction of road improvements along 95th Street from Boulder Creek to Lookout Road. The work mainly consists of the reconstructing of 95th Street to remove sharp vertical curves, widen shoulders and improve drainage flow under the road. Major work elements for this project include: 1) earthwork, 2) concrete box culverts, 4) concrete block revetment, 3) asphalt pavement 4) drainage culvert replacements/extensions.

C. BID SCHEDULE

1. BID Questions Due: 2:00 PM, Thursday, January 11, 2024
2. Addendum Out: Wednesday January 17th EOD
3. Submittal Due Date: 2:00 PM, Thursday, Jan 25
4. Submit to Email Address: purchasing@bouldercounty.gov
5. Working days contract – All day are working 180 days

D. SUBMITTAL PACKAGE

1. Completed Bid Tabulation
2. Insurance Certificate
3. W-9
4. Signature Page
5. Addendum Acknowledgement(s)

E. AVAILABLE BID DOCUMENTS

All documents are located on the Bonfire website -
<https://bouldercounty.bonfirehub.com/portal/?tab=login>

F. GENERAL REQUIREMENTS

1. Permits responsibility of Contractor (included, but not limited to)
 - a. State CDPHE
 - b. Boulder County SWQP
2. Permits existing
 - a. City of Open Space Boulder and Mountain Parks (OSMP)
 - b. USACE permit

G. UTILITIES

1. Lefthand Water District (LHWD)
 - a. 8-Inch and 12-inch waterline to be lowered by the District downstream of the proposed triple cell box culverts. Work is scheduled January/February 2024.
2. Xcel:

Overhead Electric: Xcel has overhead electrical lines on the east side of 95th Street. They will be relocating the overhead lines to buried electric at the locations of the new box culverts. Elsewhere they shall relocate poles and guy wires to the east to avoid the clear zone. Xcel is scheduled to begin work soon. Contactor to assume Xcel will be working side by side with the contractor.

Gas: Xcel has a gas line that they will be relocating at the locations of the new box culverts and where there is a conflict with the roadway cut sections. Contactor to assume Xcel will be working side by side with the contractor.
3. Lumen:

Lumen has overhead communication lines on Xcel's' poles on the east side of 95th Street. They will be relocating their overhead lines to buried communication at the locations of the new box culverts.
4. Comcast:

Comcast has overhead communication lines on Xcel's' poles on the east side of 95th Street. They will be relocating their overhead lines to buried communication at the locations of the new box culverts. Elsewhere they will move their lines in conjunction with Xcel relocating their poles and guy wires to the east to avoid the clear zone.

H. RIGHT OF WAY

1. Anticipate full rights to right-of-way before start of construction. City of Boulder Open Space and Mountain Parks and (OSMP) own a portion of the land upstream and downstream of the proposed triple box culverts. The contractor will need to follow Wetlands permit and IGA (BOCO and COB) when working on their land. Refer to special provisions and the OSMP wetlands permit.

I. CONSTRUCTION PLANS AND REQUIREMENTS

1. Performed in compliance with 2021 CDOT specification, and Boulder County Multimodal Transportation Standards. The most restrictive specification shall govern.
2. Material QC testing by the contractor. QA and acceptance testing by the County.
3. The contractor's traffic control shall account for farm vehicles. It is recommended that the contractor coordinates with the local farm owners as soon as possible after award.
4. Bid Alternate for the concrete box culverts
 - a. Base bid – cast-in-place
 - b. Bid Alternate – Pre-cast. Design must be supplied and stamped (Colorado PE) by the contractor.
5. Tree removal– see special provisions. All trees to be marked by the contractor and confirmed by Boulder County prior to removal.
6. No pre-designated staging area has been obtained. IT is the responsibility of the contractor to secure.
7. There will be a pavement smoothness specification coming per addendum.

J. Construction Phasing

1. **Due to advertisement delay, there will be a need to alter the construction phasing shown in the special provisions.** The County will submit through addendum. In general, and due

- to an Osprey nest the contractor will not be able to work within 1320' of the nest until mid-September 2024. See Exhibit.
2. Temp traffic Signal – 60 Day to construct the roadway from approximate station 178+00 to 244+00. See special provisions.
 3. Closure of 95th Street allowed for triple celled box culverts. See special provisions.
 - a. Detour 75th – Contractor responsible for all MHTs (not only detour)
 4. Local Access must be always allowed, including closures`

K. Environmental – we have it all. See plan notes and special provisions for restrictive dates.

1. Protection of Wetland and open waters
2. Osprey Nest
3. Migratory Birds
4. Burrowing Owls
5. Vegetation removal and Weed Control
6. Working within OSMP property – Per permit

TRAFFIC CONTROL PLAN - GENERAL

The key elements of the Contractor's Method of Handling Traffic (MHT) are outlined in Subsection 630.09.

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 Standard Specifications,
- 2) Advanced Warning and Phasing Drawings TF-701 thru TF-717
- 3) Schedule of Construction Traffic Control Devices
- 4) Manual of Traffic Control Devices (MUTCD)

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.

Temporary pavement markings shall be placed and maintained on the lower lift of HMA until the final lift of HMA is placed. **The cost for this work shall be inclusive with traffic control items and will not be measured and paid for separately.**

Full-compliance pavement markings by means of temporary or final markings shall be in place at the end of the day following placement of the upper asphalt lift.

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

1. Traffic Control design speed 30 MPH.
2. Cover any existing speed limit signs within the construction zone.
3. Signal modifications will be required for phasing traffic at the signalized intersections. This must be addressed in the MHT and may require relocating or bagging of existing signal heads. This work is incidental to the traffic control items.
4. Access to local residents and properties will be maintained at all times.
5. Temporary Traffic Signals will be required during the full depth roadway reconstruction between approximate stations 178+00 to 244+00.
6. The work on 95th Street is anticipated to be constructed in the following phases:
 - 1) **Construct full depth roadway reconstruction, place aggregate base and bottom 2 lifts of HMA between approximate stations 178+00 to 244+00, place leveling course between approximate stations 173+00 to 178+00 and concrete block revetment between approximate stations 173+00 to 175+55.**
 - a) **Full time one lane closure with temporary traffic signals can be used for the full depth roadway reconstruction work with a 60 working day time limit.**
 - b) This shall be broken up in **a minimum** of 3 different sections to reduce length between temporary traffic signals and to avoid conflict with adjoining streets.
 - c) **Leveling course placement and concrete block revetment installation between 173+00 and 178+00 will be completed as a one lane day closure with flaggers in order to maintain resident access. This work can be completed outside of the above mentioned 60 working day limit but within the total project 180 working day limit.**

- 2) Upon confirmation of the Osprey fledging, anticipated to be September 10th, construct box culverts, concrete block revetment, and full depth roadway reconstruction between approximate stations 149+62 to 173+00.
 - a) Full roadway closure from approximate station 149+62 to station 173+00 **100 working day time limit**
 - b) Construct full depth roadway reconstruction, place aggregate base and bottom 2 lifts of HMA between approximate stations 149+62 to 173+00.
- 3) Construct Mill & Overlay sections and place 2" top lift on full project limits.
 - a) One lane day closure with flaggers **20 working day limit**
 - b) To avoid the swallow nesting period at the bridge over Boulder Creek and the Osprey, the mill and overlay of the bridge needs to occur after September 10th and before March 15th.

All costs incidental to the foregoing requirements shall be included in the original contract prices for the project