RIO BLANCO COUNTY

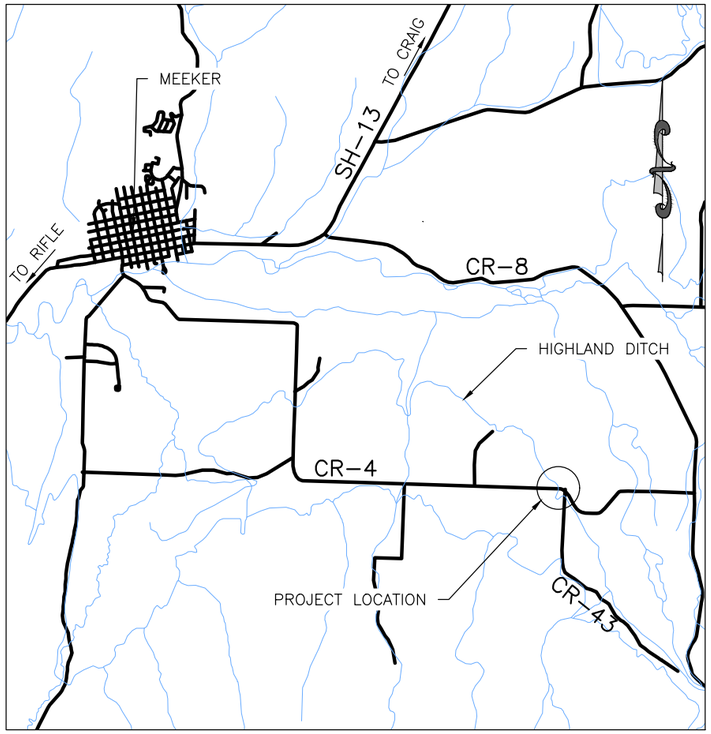
PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE REPLACEMENT OF THE EXISTING MINOR STRUCTURE AT THE COUNTY ROAD 4 CROSSING OF HIGHLAND DITCH WITH A CAST IN PLACE CONCRETE BOX CULVERT AND THE INSTALLATION OF NEW GUARDRAIL.

TABULATION OF LENGTH

STATION	FEET	
	ROADWAY	MINOR STRUCTURE
RIO BLANCO COUNTY ROAD 4 STA 2+20.00 – STA 2+85.00	65	17.67
TOTAL (FT)	65	17.67
SUMMARY OF PROJECT LENGTH	FEET	MILES
MAJOR STRUCTURE	–	–
PROJECT GROSS LENGTH	65	0.012

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED COUNTY ROAD 4 HIGHLAND DITCH CULVERT



PROJECT LOCATION MAP

N.T.S.
Section 04 Township 1 South, Range 93 West
6th Principal Meridian

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2-3	STANDARD PLANS LIST SHEETS
4-5	GENERAL NOTES
6	UTILITY NOTES
7	TYPICAL SECTIONS AND DETAILS
8	SUMMARY OF APPROXIMATE QUANTITIES
9	PROJECT CONTROL DIAGRAM
10	OVERALL SITE PLAN
11	REMOVAL PLANS
12	GEOMETRY PLAN
13	ROADWAY PLAN AND PROFILE
14	GUARDRAIL AND FENCING PLAN
15-17	CULVERT PLANS
18	EROSION CONTROL PLANS
19	TRAFFIC CONTROL PLAN
20	CROSS SECTIONS

811 Know what's below. Call before you dig.
UNCC 1-800-922-1987

BID PLANS
SEPTEMBER 2026

Computer File Information	
Print Date: 9/22/26	
Last Modification Date: 9/22/26	
Drawing File Name: CR4 Culvert - Admin	
Autocad Ver. 2026 Scale: As Shown	
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
1			

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No Revisions:	
Revised:	
Void:	

Contract Information	
Contractor:	
Resident Engineer:	
Project Engineer:	
PROJECT STARTED: / /	ACCEPTED: / /
Comments:	

Project No./Code	
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Sheet Number	1

I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - ADMIN.DWG Plotted: 9/22/2026 4:23 PM By: Eric Mahoney

Plan Number	M Standard Title
☐ M-100-1	Standard Symbols
☐ M-100-2	Acronyms and Abbreviations
☐ M-203-1	Approach Roads
☐ M-203-2	Ditch Types
☐ M-203-11	Superelevation Crowned and Divided Highways
☐ M-203-12	Superelevation Streets
■ M-206-1	Excavation and Backfill for Structures
☐ M-206-2	Excavation and Backfill for Bridges
■ M-208-1	Temporary Erosion Control
☐ M-210-1	Mailbox Supports
☐ M-214-1	Nursery Stock Details
☐ M-216-1	Soil Retention Covering
■ M-400-1	Safetyedge for Pavement
☐ M-412-1	Concrete Pavement Joints
☐ M-412-2	Concrete Pavement Crack Repair
☐ M-510-1	Structural Plate Pipe H-20 Loading
■ M-601-1	Single Concrete Box Culvert (Cast-in-Place)
☐ M-601-2	Double Concrete Box Culvert (Cast-in-Place)
☐ M-601-3	Triple Concrete Box Culvert (Cast-in-Place)
☐ M-601-10	Headwall for Pipes
☐ M-601-11	Type "S" Saddle Headwalls for Pipe

Plan Number	M Standard Title
☐ M-601-12	Headwalls and Pipe Outlet Paving
■ M-601-20	Wingwalls for Pipe or Box Culverts
☐ M-603-1	Metal Pipe
☐ M-603-2	Reinforced Concrete Pipe
☐ M-603-3	Precast Concrete Box Culvert
☐ M-603-4	Corrugated Polyethylene Pipe (AASHTO M294) and Corrugated Polypropylene Pipe (AASHTO M330)
☐ M-603-5	Polyvinyl Chloride (PVC) Pipe (AASHTO M304)
☐ M-603-6	Steel Reinforced Polyethylene Ribbed Pipe (AASHTO MP 20)
☐ M-603-10	Concrete and Metal End Sections
☐ M-603-12	Traversable End Sections and Safety Grates
☐ M-604-10	Inlet, Type C
☐ M-604-11	Inlet, Type D
☐ M-604-12	Curb Inlet Type R
☐ M-604-13	Concrete Inlet Type 13
☐ M-604-20	Manholes
☐ M-604-25	Vane Grate Inlet
☐ M-605-1	Subsurface Drains
■ M-606-1	Midwest Guardrail System Type 3 W-Beam 31 Inches
☐ M-606-13	Guardrail Type 7 F-Shape Barrier

Plan Number	M Standard Title
☐ M-606-14	Precast Type 7 Concrete Barrier
☐ M-606-15	Guardrail Type 9 Single Slope Barrier
■ M-607-1	Wire Fences and Gates
☐ M-607-2	Chain Link Fence
☐ M-607-3	Barrier Fence
☐ M-607-4	Deer Fence, Gates, and Game Ramps
☐ M-607-10	Picket Snow Fence
☐ M-607-15	Road Closure Gate
☐ M-608-1	Curb Ramps
☐ M-609-1	Curbs, Gutters, and Sidewalks
☐ M-611-1	Cattle Guard
☐ M-611-2	Deer Guard
☐ M-614-1	Rumble Strips
☐ M-614-2	Sand Barrel Arrays
☐ M-615-1	Embankment Protector Type 3
☐ M-615-2	Embankment Protector Type 5
☐ M-616-1	Inverted Siphon
☐ M-620-1	Field Laboratory Class 1
☐ M-620-2	Field Laboratory Class 2
☐ M-620-11	Field Office Class 1
☐ M-620-12	Field Office Class 2
☐ M-629-1	Survey Monuments

COLORADO
DEPARTMENT OF TRANSPORTATION
M STANDARDS
PLANS LIST

Issued on July 01, 2026

All of the M Standard Plans, as supplemented and revised, apply to this project when used by designated pay item or subsidiary item.

The M Standard Plans used to design this project are indicated by a marked box ■, and will be attached to the plans. All other M Standard Plans are still eligible for use in construction if approved by an appropriate CDOT Engineer.

My responsibility with respect to this plan sheet is limited to the selection of the Standard Plans for this project and a determination that the selection is appropriate for the project.

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Sheet Revisions			
Rev.	Date	Comments	Init.
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Revised:
Void:

COUNTY ROAD 4 HIGHLAND DITCH CULVERT
M-STANDARD PLANS LIST

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	ADMIN	Subset Sheets:	2 of 6

Project No./Code
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Sheet Number 2

I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - ADMIN.DWG Plotted: 9/22/2026 4:23 PM By: Eric Mahoney

Plan Number	S Standard Title
■ S-612-1	Delineator Installations
☐ S-613-1	Roadway Lighting
☐ S-613-2	Alternative Roadway Lighting
☐ S-613-3	Pull Box Detail
☐ S-613-4	Traffic Signal One-Line Diagrams
☐ S-614-1	Ground Sign Placement
☐ S-614-2	Class I Signs
☐ S-614-3	Class II Signs
☐ S-614-4	Class III Signs
☐ S-614-5	Break-Away Sign Support Details for Class III Signs
☐ S-614-6	Concrete Footings and Sign Islands for Class III Signs
☐ S-614-8	Tubular Steel Sign Support Details
☐ S-614-10	Marker Assembly Installations
☐ S-614-11	Milepost Sign Detail for High Snow Areas
☐ S-614-12	Structure Number Installation
☐ S-614-14	Flashing Beacon and Sign Installations
☐ S-614-15	Chain Station Signage
☐ S-614-17	Radar Speed Feedback Sign (RSFS)
☐ S-614-19	Late/Zipper Merge Signage
☐ S-614-20	Typical Pole Mount Sign Installations

Plan Number	S Standard Title
☐ S-614-21	Concrete Barrier Sign Post Installations
☐ S-614-22	Typical Multi-Sign Installations
☐ S-614-23	J-Post Sign Support
☐ S-614-40	Typical Traffic Signal 15'-75' Double Mast Arms & 60'-75' Single Mast Arm
☐ S-614-40A	Alternative Traffic Signal 15'-55' Single Mast Arm
☐ S-614-41	Temporary Span Wire Signals
☐ S-614-42	Cabinet Foundation Detail
☐ S-614-43	Traffic Loop and Miscellaneous Signal Details
☐ S-614-44	Pedestal Pole Signals
☐ S-614-45	Pedestrian Push Button Post Assembly Details
☐ S-614-50	Static Sign Monotube Structures
☐ S-614-60	Dynamic Sign Monotube Structures
■ S-627-1	Pavement Markings
■ S-630-1	Traffic Controls for Highway Construction
■ S-630-2	Barricades, Drums, Concrete Barriers (Temp) & Vertical Panels
☐ S-630-3	Flashing Beacon (Portable) Details
☐ S-630-4	Steel Sign Support (Temporary) Installation Details
☐ S-630-5	Portable Rumble Strips (Temporary)
☐ S-630-6	Emergency Pull-Off Area (Temporary)
☐ S-630-7	Rolling Roadblocks for Traffic Control

My responsibility with respect to this Plan Sheet is limited to the selection of the Standard Plans for this project and a determination that the selection is appropriate for the project.

All of the S Standard Plans, as supplemented and revised, apply to this project when used by designated pay item or subsidiary item.

The S Standard Plans used to design this project are indicated by a marked box ■ and will be attached to the plans. All other S Standard Plans are still eligible for use in construction if approved by an appropriate CDOT Engineer.

Colorado
Department Of Transportation

S Standards

Plans List

July 01, 2026

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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
S-STANDARD PLANS LIST

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	ADMIN	Subset Sheets:	3 of 6

Project No./Code: --

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Sheet Number 3

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DIVISION 100 – GENERAL PROVISIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2025, AND AS SUBSEQUENTLY REVISED; THE STANDARD PLANS, DATED JULY 2026, AND AS SUBSEQUENTLY REVISED, AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.

2. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREA NOT APPROVED BY THE ENGINEER.

3. ALL EXISTING ACCESSES SHALL REMAIN OPEN TO TRAFFIC THROUGHOUT CONSTRUCTION, WITH THE EXCEPTION OF MINOR CLOSURES OF LESS THAN ONE HOUR. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE COUNTY FOR ALL MINOR CLOSURES.

4. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE PROJECT.

5. CONTROL OF SURFACE RUNOFF AND THE REPAIR OF DAMAGES RESULTING FROM RUNOFF IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE COST TO CONTROL SURFACE RUNOFF OR REPAIR DAMAGES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

6. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION SHALL BE RESET AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION.

7. SANITARY FACILITIES SHALL BE LOCATED ON SITE. SANITARY FACILITIES SHALL BE FULLY OPERATIONAL BEFORE CONSTRUCTION CAN BEGIN. SANITARY FACILITY PAY ITEM SHALL INCLUDE CLEANING A MINIMUM OF TWICE A WEEK.

8. THE CONTRACTOR SHALL HAVE: ONE COPY OF THE PLANS AND REVIEWED SHOP DRAWINGS AND ONE COPY OF THE CONSTRUCTION SPECIFICATIONS FOR THE PROJECT AT THE JOB SITE AT ALL TIMES.

9. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE RIO BLANCO COUNTY OR THEIR ASSIGNED REPRESENTATIVE. THE COUNTY AND THEIR ASSIGNED REPRESENTATIVES RESERVE THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DO NOT CONFORM TO THE PLANS AND SPECIFICATIONS LISTED HEREIN. REQUIRED QUALITY CERTIFICATIONS AND DOCUMENTATION SHALL BE SUBMITTED TO THE COUNTY AND THEIR REPRESENTATIVES PRIOR TO PLACEMENT OR USE OF THE MATERIAL.

10. PROJECT MATERIALS TESTING WILL BE PROVIDED BY THE CONTRACTOR.

UTILITIES

1. EXISTING UTILITY LOCATIONS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION.

2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE CDOT STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS CONCERNING UTILITIES. THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITY COMPANIES SO THAT NECESSARY RELOCATIONS CAN BE ACCOMPLISHED WITHOUT IMPACTING THE CONSTRUCTION SCHEDULE.

3. 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 TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. UTILITY SERVICE LATERALS SHALL ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS NECESSARY TO ENSURE THE UTILITIES WILL NOT BE IMPACTED BY CONSTRUCTION ACTIVITIES. IT IS ESTIMATED THAT 8 HOURS OF POTHOLING WILL BE REQUIRED ON THIS PROJECT AS DIRECTED BY THE ENGINEER.

5. ALL UNDERGROUND UTILITY CONSTRUCTION SHALL BE COMPLETED AND ACCEPTED PRIOR TO PLACING PAVEMENT.

6. REFER TO "UTILITY NOTES – 'SUE-REQUIRED PROJECT' COMPLIANT" SHEET 6 FOR FURTHER DETAILS ON THE EXISTING UTILITIES.

PERMITS

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED DEWATERING PERMITS AND DEVELOPING THE FOLLOWING METHODS OF COMPLIANCE WITH THOSE PERMITS FOR ALL CONSTRUCTION ACTIVITIES ON THE PROJECT.

2. ANY PUMPING OF WATER MAY REQUIRE A DISCHARGE PERMIT FROM CDPHE WATER QUALITY CONTROL DIVISION, AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ONLY CLEAN WATER THAT HAS NOT PICKED UP SEDIMENT FROM THE WORK AREA SHALL BE DISCHARGED FROM THE SITE WITHOUT PRIOR TREATMENT. WATER CONTAINING ELEVATED LEVELS OF SEDIMENT SHALL BE TREATED PRIOR TO DISCHARGE USING BEST MANAGEMENT PRACTICES AS APPROVED BY THE ENGINEER. CONDITIONS OF THE PERMIT INCLUDING MONITORING AND REPORTING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

3. DEWATERING OR DIVERSION OF THE HIGHLAND DITCH SURFACE WATER, SUBSURFACE WATER AND GROUNDWATER SHOULD BE ANTICIPATED TO CONSTRUCT THE CULVERT. THE CONTRACTOR SHALL SUBMIT THE PROPOSED DEWATERING METHOD TO THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL SURFACE AND SUBSURFACE DRAINAGE AND GROUNDWATER ENTERING THE PROJECT AREA AND SHALL BE RESPONSIBLE FOR OBTAINING A CONSTRUCTION DEWATERING PERMIT FROM THE CDPHE IF CONDITIONS OF THEIR LOW RISK GUIDANCE FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND ARE NOT MET. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

4. USACE 404 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. THE CONTRACTOR SHALL COMPLY WITH ALL SPECIAL AND GENERAL CONDITIONS ATTACHED TO THE PERMIT.

5. CDPS PERMIT – IF PROJECT ACTIVITIES RESULT IN ONE ACRE OR MORE OF EARTH DISTURBANCE A COLORADO DISCHARGE PERMIT SYSTEM – STORMWATER CONSTRUCTION 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.

6. MBTA – IT IS IN VIOLATION OF THE MIGRATORY BIRD TREATY ACT (MBTA) TO IMPACT ACTIVE NESTS OF GROUND DWELLING BIRDS OR THE NESTS OF BIRDS ON OR UNDER EXISTING STRUCTURES AT ANY TIME BETWEEN APRIL 1 AND AUGUST 31, AND MEASURES SHOULD BE TAKEN TO DETER NEST BUILDING PRIOR TO APRIL 1. THIS INCLUDES NESTS UNDER BRIDGES AND IN NEARBY TREES AND SHRUBS. ANY COSTS ASSOCIATED WITH SURVEYING FOR NESTS PRIOR TO CLEARING AND GRUBBING, AND/OR NEST REMOVALS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. APPROVED MEASURES TO PREVENT NESTING INCLUDE MOWING, INSTALLING EXCLUSIONARY NETTING AND OTHERWISE PHYSICAL REMOVAL OF NESTS BY HAND. IF ANY TREES OR SHRUBS ARE TO BE REMOVED BETWEEN APRIL 1 AND AUGUST 31, A SURVEY MUST BE COMPLETED. IF AN ACTIVE NEST IS FOUND, NO WORK MAY BE DONE WITHIN 50 FEET OF THE NEST UNTIL THE NEST BECOMES INACTIVE. SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

7. WETLANDS AND THREATENED AND ENDANGERED SPECIES – WORK ACTIVITIES INCLUDING THE MOVEMENT AND PLACEMENT OF VEHICLES AND EQUIPMENT SHALL NOT DISTURB WETLANDS BEYOND THE PLANNED LIMITS OR THREATENED AND ENDANGERED SPECIES (OR THEIR HABITAT).

AQUATIC INVASIVE SPECIES

1. EQUIPMENT AND GEAR THAT WERE PREVIOUSLY USED IN ANOTHER STREAM, RIVER, LAKE, POND OR WETLAND, AND WHICH ARE USED IN OR NEAR WATERS ON THE PROJECT, SHALL BE TREATED TO PREVENT THE SPREAD OF AQUATIC INVASIVE SPECIES. THESE INCLUDE, BUT ARE NOT LIMITED TO: NEW ZEALAND MUD SNAILS, ZEBRA MUSSELS, QUAGGA MUSSELS, WHIRLING DISEASE, AND ALL OTHER AQUATIC INVASIVE SPECIES

2. EQUIPMENT THAT SHALL BE TREATED INCLUDES ALL PARTS OF MACHINERY AND VEHICLES OF ALL TYPES AND SIZES THAT CAME INTO CONTACT WITH THE LIVE WATER. GEAR THAT MUST BE TREATED INCLUDE BOOTS, WATERS, TOOLS, AND ALL OTHER MATERIALS AND ATTIRE USED PREVIOUSLY IN LIVE WATER.

3. THE CONTRACTOR SHALL USE ONE OF THE FOLLOWING TWO TREATMENTS:
   (1) REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT AND GEAR. THEN SPRAY OR SOAK THE EQUIPMENT AND GEAR WITH A 1:15 SOLUTION OF SPARQUAT INSTITUTIONAL CLEANER AND WATER. EQUIPMENT AND GEAR SHALL BE KEPT MOISTENED WITH THE SOLUTION FOR AT LEAST 10 MINUTES.
   (2) REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT AND GEAR. THEN SPRAY OR SOAK EQUIPMENT AND GEAR WITH WATER HEATED TO A TEMPERATURE GREATER THAN 140° F FOR AT LEAST 10 MINUTES.

4. PRIOR TO MOVING SUCH EQUIPMENT ONTO THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A WRITTEN LIST OF THE EQUIPMENT AND A SIGNED CERTIFICATION THAT IT WAS TREATED USING ONE OF THE TWO METHODS SPECIFIED ABOVE.

5. AFTER PROJECT COMPLETION, THIS EQUIPMENT SHALL BE TREATED PRIOR TO ITS USE IN ANOTHER STREAM, RIVER, LAKE, POND, OR WETLAND.

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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
GENERAL NOTES (1)

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	ADMIN	Subset Sheets:	4 of 6

Project No./Code	
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Sheet Number	4

DIVISION 200 EARTHWORK

1. PROTECTIVE PLASTIC FENCE AND EROSION CONTROL MEASURES MUST BE IMPLEMENTED BEFORE CONSTRUCTION AND GRADING OPERATIONS BEGIN. CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE WASHED AND FREE OF SOIL AND DEBRIS CAPABLE OF TRANSPORTING NOXIOUS WEED SEEDS OR ROOTS FROM OTHER AREAS BEFORE BEING BROUGHT ON THE PROJECT SITE.

2. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL TRASH AND DEBRIS WITHIN THE PROJECT LIMITS. ALL SURFACE OBJECTS, TREES, TREE STUMPS, ROOTS, BUSHES, LANDSCAPING AND OTHER PROTRUDING OBSTRUCTIONS WITHIN THE LIMITS OF CUTS AND FILLS SHALL BE CLEARED AND GRUBBED, INCLUDING MOWING AS REQUIRED. ALL OTHER TREES AND BUSHES SHALL BE PROTECTED.

3. THE CONTRACTOR SHALL FIELD VERIFY EXISTING PAVEMENT ELEVATIONS PRIOR TO COMMENCING REMOVAL, PLANING AND PAVING OPERATIONS. ANY DEVIATION OR DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

4. WHERE CUTTING OF ASPHALT PAVEMENT IS REQUIRED, THE CUTTING SHALL BE DONE TO A NEAT WORK LINE WITH A SAW OR CUTTING WHEEL AS APPROVED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

5. ALL REMOVALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE INDICATED IN THE PLANS AND PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL MATERIALS.

6. IN THE EVENT THAT PROJECT PERSONNEL ENCOUNTER UNKNOWN SOIL AND/OR GROUNDWATER CONTAMINATION, CONSTRUCTION ACTIVITIES SHOULD CEASE IMMEDIATELY AND THE PROCEDURES OUTLINED IN THE CDOT STANDARD SPECIFICATIONS SECTION 250 SHALL BE FOLLOWED.

7. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE EARTHWORK ITEM. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATION SHALL BE AS DIRECTED BY THE ENGINEER.

8. TYPE OF COMPACTION FOR THIS PROJECT WILL BE:
   FINE GRAINED SOILS – AASHTO T–99 (STANDARD PROCTOR)
   COARSE GRAINED SOILS – AASHTO T–180 (MODIFIED PROCTOR)

9. WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

10. MOISTURE–DENSITY CONTROL WILL BE REQUIRED FOR THE FULL DEPTH OF THOSE EMBANKMENTS AND AGGREGATE BASE COURSE (CL 6) ON THIS PROJECT.

11. DEPTH OF MOISTURE–DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
    FULL DEPTH OF ALL EMBANKMENTS AND ENGINEERED FILLS
    BASES OF CUTS AND FILL 6 INCHES
    FULL DEPTH OF EMBANKMENT SECTIONS USED FOR DITCHES AND CHANNEL CHANGES

12. ALL EMBANKMENT MATERIAL BELOW PAVED ROADWAY SHALL HAVE A MINIMUM R–VALUE OF 59 WITHIN THE TOP 24 INCHES OF SUBGRADE.

13. PROOF ROLLING OF THE SUBGRADE WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

14. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE WORK.

15. THE CONTRACTOR SHALL PROVIDE SHOULDERING MATERIAL FLUSH WITH THE EDGE OF PAVEMENT AS SHOWN IN THE TYPICAL SECTION. IF ADDITIONAL GRADING IS REQUIRED AT THE END OF THE PROJECT TO ENSURE THIS, IT SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

16. THE THICKNESS OF TOPSOIL SHALL BE 4 INCHES AT LOCATION SHOWN IN THE PLANS. TOPSOIL IS REQUIRED AND SHALL BE GENERATED WITHIN THE PROJECT LIMITS FROM THE BEST AVAILABLE MATERIAL AS APPROVED BY THE ENGINEER. NO IMPORTATION OF TOPSOIL WILL BE ALLOWED. TOPSOIL SHALL BE STRIPPED AND STORED SEPARATELY DURING CONSTRUCTION ACTIVITIES IN LOCATIONS APPROVED BY THE ENGINEER. TOPSOIL SHALL BE PLACED ON AREAS TO BE RECLAIMED JUST PRIOR TO SOIL CONDITIONING, RESEEDING AND MULCHING TO MINIMIZE COMPACTION FROM CONSTRUCTION EQUIPMENT.

17. SOIL CONDITIONING (COMPOST) SHALL BE APPLIED TO AREAS TO BE RECLAIMED JUST PRIOR TO RESEEDING AND MULCHING.

18. ANY OPEN EXCAVATION LEFT UNATTENDED SHALL BE BARRICADED OR FENCED OFF BY THE CONTRACTOR.

19. ALL TEMPORARY EXCAVATION SUPPORT (SHORING) REQUIRED TO CONSTRUCT CERTAIN ELEMENTS OF THIS PROJECT WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT WILL BE INCIDENTAL TO THE COST OF THE ELEMENT CONSTRUCTED.

20. NO WORK IS ALLOWED IN WETLANDS OR IN THE DITCH BEYOND THE LIMITS OF THE DISTURBED AREA.

DIVISION 400 PAVEMENT

1. PAVING AND PLACEMENT OF BASE COURSE SHALL NOT BEGIN UNTIL THE ENGINEER HAS APPROVED THE SUBGRADE. THE SUBGRADE SHALL BE PROOF ROLLED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF ANY SUBSEQUENT STRUCTURAL LAYERS. AREAS THAT DEFORM UNDER HEAVY WHEEL LOADS AS DETERMINED BY THE ENGINEER ARE NOT STABLE AND SHALL BE REMOVED AND REPLACED TO ACHIEVE A STABLE SUBGRADE. THE ENGINEER SHALL APPROVE THE TYPE AND WEIGHT OF THE VEHICLE TO BE USED FOR THE PROOF ROLL PER CDOT 203.07. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR THE PROOF ROLL. PROOF ROLLING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.

2. FOR APPROXIMATE PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
   TACK COAT EMULSIFIED ASPHALT (SLOW–SETTING)..... @ 0.1 GALS/SQ. YD. (DILUTED)
   BITUMINOUS PAVEMENT..... @ 147 LBS. / CU. FT.
   AGGREGATE BASE COURSE (CLASS 6)..... @ 136 LBS./ CU. FT.

3. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT (SLOW–SETTING) AND 1 PART WATER.

4. A TACK COAT OF EMULSIFIED ASPHALT (SLOW–SETTING) SHALL BE APPLIED AT THE FOLLOWING LOCATIONS:
   – BEFORE PLACING NEW PAVEMENT OVER EXISTING PAVEMENT
   – ALONG THE FACE OF ALL EXISTING PAVEMENT, AND ALL SURFACES AGAINST WHICH ASPHALT IS TO BE PLACED BETWEEN PAVEMENT COURSES

5. THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAVER:
   A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH
   SHORT SKI OR SHOE
   500 FEET OF CONTROL LINE AND STAKES

6. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED TO THE FULL AVAILABLE WIDTH WITHIN EACH PHASE OF CONSTRUCTION BEFORE A SUCCEEDING LAYER IS PLACED.

7. WHERE NEW PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE USING A PAVEMENT–CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER. THE WORK WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE REMOVAL OF ASPHALT MAT ITEM.

8. PRIOR TO PLACING TACK COAT OR BITUMINOUS PAVEMENT, THE PAVED SURFACE SHALL BE CLEAN. SWEEPING OR OTHER CLEANING METHODS MAY BE REQUIRED AND WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. SWEEPING SHALL BE DONE WITH A PICKUP BROOM.

DIVISION 600 MISCELLANEOUS

1. COLD WEATHER CONCRETING OPERATIONS SHOULD BE ANTICIPATED FOR THIS PROJECT. THESE OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS SECTIONS 601 AND 203. THIS COST SHALL BE INCLUDED IN THE WORK.

2. SEVERITY OF POTENTIAL SULFATE EXPOSURE ON THIS PROJECT IS ASSUMED TO BE CLASS 1. WHERE ELEMENTS ARE IN DIRECT CONTACT WITH SOIL. ALL PRECAST AND CAST IN PLACE CONCRETE SHALL MEET THE REQUIREMENTS SPECIFIED IN SECTION 601, 624, AND 701.

3. ALL SURVEYING NECESSARY TO COMPLETE THE WORK SHALL BE DONE BY THE CONTRACTOR. THIS WORK WILL BE PAID FOR AS ITEM 625, CONSTRUCTION SURVEYING, LUMP SUM.

4. CONSTRUCTION TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CDOT M&S STANDARDS. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A METHOD OF HANDLING TRAFFIC (MHT) TO THE ENGINEER FOR APPROVAL FOR EACH APPLICABLE PHASE OF WORK.

5. THE CONTRACTOR SHALL DETERMINE WHERE TO STOCKPILE MATERIAL OR STORE EQUIPMENT FOR THE PROJECT. TRAFFIC CONTROL MEASURES REQUIRED TO ACCOMMODATE MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE MHT.

I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - ADMIN.DWG Plotted: 9/22/2026 4:23 PM By: Eric Mahoney

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Print Date: 9/22/26	
Last Modification Date: 9/22/26	
Drawing File Name: CR4 Culvert - Admin	
Autocad Ver. 2026 Scale: As Shown	
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
GENERAL NOTES (2)

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	ADMIN	Subset Sheets:	5 of 6

Project No./Code
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Sheet Number 5

I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - ADMIN.DWG Plotted: 9/22/2026 4:23 PM By: Eric Mahoney

EXISTING UTILITY NOTES – "SUE-REQUIRED PROJECT" COMPLIANT

1. THIS PROJECT DOES MEET THE CONDITIONS FOR A "SUBSURFACE UTILITY ENGINEERING-REQUIRED PROJECT," AS SET FORTH IN THE 8/8/2018 COLORADO STATE LAW. REFER TO THE "COLORADO REVISED STATUTES (CRS) 2018 TITLE 9-1.5-102 SUBSURFACE UTILITY ENGINEERING (SUE) REQUIRED PROJECT COMPLIANCE CHECKLIST" TABLE FOR REFERENCE TO THESE CONDITIONS.

COLORADO REVISED STATUTES (CRS) 2018 TITLE 9-1.5-102 SUBSURFACE UTILITY ENGINEERING (SUE) REQUIRED PROJECT COMPLIANCE CHECKLIST						
1	9-1.5-10 2-6.8.A	PROJECT INVOLVES CONSTRUCTION CONTRACT WITH A PUBLIC ENTITY	X	YES		NO
2	9-1.5-10 2-6.8.B	PROJECT INVOLVES PRIMARILY HORIZONTAL CONSTRUCTION AND DOES NOT INVOLVE PRIMARILY THE CONSTRUCTION OF BUILDINGS	X	YES		NO
3A	9-1.5-10 2-6.8.C.I.A	EXCAVATION FOOTPRINT EXCEEDS 2-FEET DEPTH AND IS A CONTIGUOUS 1,000-SQUARE FEET; OR	X	YES		NO
3B	9-1.5-10 2-6.8.C.I.B	INVOLVES UTILITY BORING		YES	X	NO
4	9-1.5-10 2-6.8.D	PROJECT REQUIRES THE DESIGN SERVICES OF A LICENSED PROFESSIONAL ENGINEER (P.E.)	X	YES		NO
SUMMARY	9-1.5-10 3-2.4	REQUIRED TO MEET OR EXCEED THE ASCE 38 STANDARD AND CO SUE LAW?	X	YES		NO

2. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) DOCUMENT ASCE 38, "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." LOCATION OF EXISTING UTILITIES IS DEPICTED ACCORDING TO THE BEST AVAILABLE INFORMATION, ARE NOT GUARANTEED TO BE ALL INCLUSIVE, AND REPRESENT CONDITIONS AT THE TIME OF DATA COLLECTION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING UTILITIES WITH THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AND/OR UTILITY COMPANIES. ALL COSTS ASSOCIATED WITH FIELD VERIFICATION OF LOCATION AND DEPTHS OF UTILITIES FOR DAMAGE PREVENTION SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR NEWLY ACQUIRED UTILITY DATA.

3. UTILITY QUALITY LEVELS ARE GENERALLY DEFINED BELOW. REFER TO ASCE 38 FOR MORE INFORMATION:

   3.1 UTILITY QUALITY LEVEL "D" (QLD) – A VALUE ASSIGNED TO A SUBSURFACE UNDERGROUND UTILITY SEGMENT OR UTILITY FEATURE, WHOSE ESTIMATED POSITION IS JUDGED THROUGH UTILITY RECORDS, INFORMATION FROM OTHERS (SUCH AS UNCC 811 FIELD MARKS), OR FROM VISUAL CLUES SUCH AS PAVEMENT CUTS, OBVIOUS TRENCHES, OR EXISTENCE OF SERVICE.

   3.2 UTILITY QUALITY LEVEL "C" (QLC) – A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT, WHOSE ESTIMATED POSITION IS JUDGED THROUGH CORRELATING UTILITY RECORDS OR SIMILAR EVIDENCE TO UTILITY FEATURES, VISIBLE ABOVE AND/OR BELOW GROUND.

   3.3 UTILITY QUALITY LEVEL "B" (QLB) – A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE WHOSE EXISTENCE AND POSITION IS BASED UPON GEOPHYSICAL METHODS COMBINED WITH PROFESSIONAL JUDGMENT AND WHOSE LOCATION IS TIED TO THE PROJECT SURVEY DATUM.

   3.4 UTILITY QUALITY LEVEL "A" (QLA) – A VALUE ASSIGNED TO THAT PORTION OF A SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE THAT IS DIRECTLY EXPOSED (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES), MEASURED, AND WHOSE LOCATION AND DIMENSIONS ARE TIED TO THE PROJECT SURVEY DATUM. (E.G. A TEST HOLE OR TEST PIT.)

4. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DO NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

5. THE CONTRACTOR SHALL COMPLY WITH COLORADO REVISED STATUTES (CRS) 2018, TITLE 9, ARTICLE 1.5, "EXCAVATION REQUIREMENTS", WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER.

6. SHOULD THE CONTRACTOR ENCOUNTER UNKNOWN AND/OR ABANDONED UTILITY FACILITIES THE CONTRACTOR SHALL VERIFY WITH THE RESPECTIVE UTILITY OWNER THAT THE UTILITY MATERIAL IS INACTIVE/ABANDONED BEFORE REMOVAL FROM THE WORK AREA.

7. THE CONTRACTOR SHALL COMPLY WITH COLORADO REVISED STATUTES (CRS) 2018, TITLE 9, ARTICLE 1.5-103 (10), "All NEW UNDERGROUND FACILITIES, INCLUDING LATERALS UP TO THE STRUCTURE OR BUILDING BEING SERVED, INSTALLED ON OR AFTER 8/8/2018, MUST BE ELECTRONICALLY LOCATABLE WHEN INSTALLED."

8. PROJECT SPECIFIC NOTES:

   8.1. UTILITY FIELD INVESTIGATION WAS PERFORMED BY KPE LOCATING PER THE FOLLOWING DATES/WEATHER: AUGUST 10, 2026. TEMPURATURES WERE 60 DEGREES FAHRENHEIT WITH NO PRECIPITATION. EXISTING UTILITY CONDITIONS MAY HAVE CHANGED AFTER THESE DATES.

   8.2. UTILITY INVESTIGATION EQUIPMENT UTILIZED AS FOLLOWS: RD8200 LOCATOR.

   8.3. UTILITY FIELD INFORMATION WAS RECORDED BY KPE LOCATING. CONTACT SGM'S SURVEY DEPARTMENT FOR FOR SURVEY DATUM DETAILS.

   8.4. THE PRIMARY SCOPE OF THIS PROJECT IS THE REPLACEMENT OF THE EXISTING RIO BLANCO COUNTY ROAD 4 BRIDGE OVER THE HIGHLAND DITCH WITH A CAST-IN-PLACE CONCRETE CULVERT.

   8.5. THE PIPE AND CABLE (PCL) LOCATE EQUIPMENT FREQUENCIES PRIMARILY USED WERE 8.19 KHZ.

   8.6. THE GPR EQUIPMENT WAS NOT UTILIZED FOR THIS PROJECT.

   8.7. LOCATOR WAS ABLE TO ACHIEVE QUALITY LEVEL B FOR ALL UTILITY SEGMENTS:

CONTACT LIST OF UTILITY OWNERS WITHIN VICINITY OF PROJECT LIMITS

ORGANIZATION NAME	ABBR	UTILITY TYPE(S)	CONTACT NAME	CONTACT PHONE	CONTACT EMAIL	RECORDS RECEIVED?
CENTURYLINK (NOW LUMEN)	CNLK	PHONE, FIBER	AL PEREZ	970-589-4536	AL.PEREZ1@LUMEN.COM	YES
WHITE RIVER ELECTRIC ASSOCIATION	WREA	ELECTRIC	BRETT BERTHELSON	970-878-8681	BBERTHELSON@WREA.ORG	NO
HIGHLAND DITCH COMPANY	HDC	IRRIGATION	BEN ROGERS	970-220-2062		NO

Computer File Information	
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Drawing File Name:	CR4 Culvert - Admin
Autocad Ver. 2026	Scale: As Shown
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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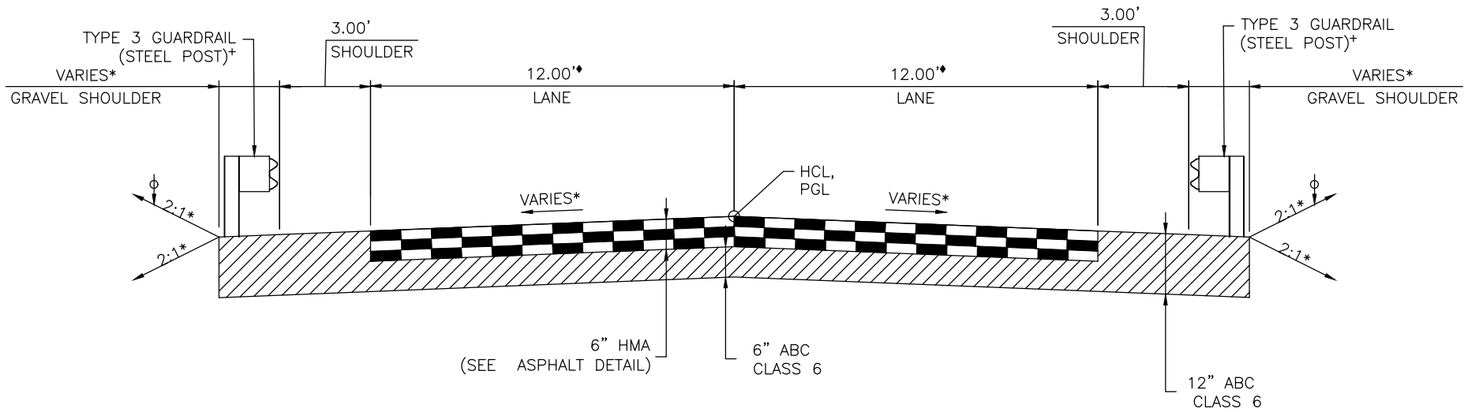
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
UTILITY NOTES

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	ADMIN	Subset Sheets:	6 of 6

Project No./Code
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Sheet Number 6



TYPICAL SECTION

SCALE: 1" = 5'

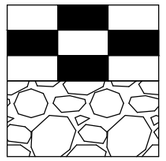
STA. 2+20.00 TO 2+85.00

*SEE PLANS FOR CROSS SLOPES AND WIDTHS

+GUARDRAIL SHALL BE MOUNTED TO BOX CULVERT WHERE APPLICABLE. SEE STRUCTURAL PLANS AND CDOT M-606-1.

♦NOMINAL LANE WIDTH. ACTUAL LANE WIDTH WILL VARY BASED ON EDGE OF PAVEMENT TO MATCH EXISTING.

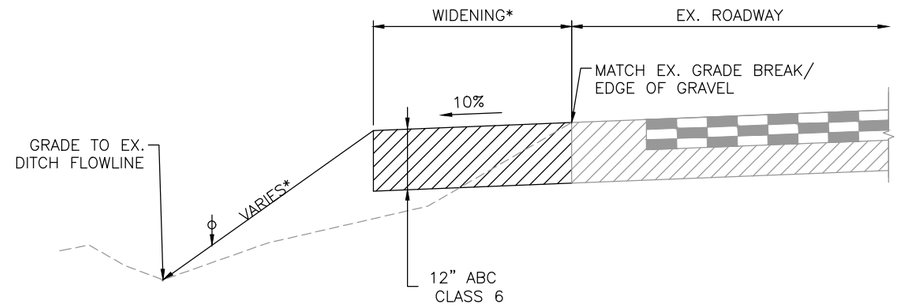
ϕ = 4" TOPSOIL



2" HMA GRADING SX (75) (PG 58-28)
2" HMA GRADING SX (75) (PG 58-28)
2" HMA GRADING SX (75) (PG 58-28)

6" AGGREGATE BASE COURSE (CLASS 6)

ASPHALT DETAIL

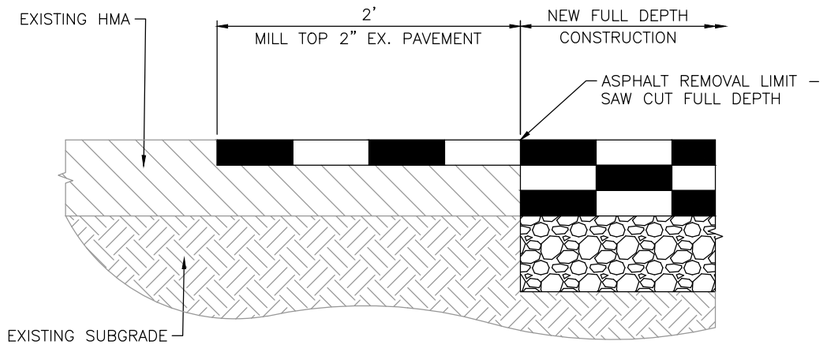


WIDENING FOR END ANCHORAGE

SCALE: 1" = 5'

STA. 1+00.36 TO 2+20.00

*SEE PLANS FOR FILL SLOPE AND WIDTH



PAVEMENT JOINT DETAIL

N.T.S.

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Sheet Revisions			
Rev.	Date	Comments	Init.
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
TYPICAL SECTIONS AND DETAILS

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	TYP	Subset Sheets:	1 of 1

Project No./Code	
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Sheet Number	7

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY		CULVERT		PROJECT TOTALS	
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
201-00000	CLEARING AND GRUBBING	L S	1				1	
202-00220	REMOVAL OF ASPHALT MAT	SY	167				167	
202-00240	REMOVAL OF ASPHALT MAT (PLANING)	SY	11				11	
202-00400	REMOVAL OF BRIDGE	EACH	1				1	
202-00810	REMOVAL OF GROUND SIGN	EACH	4				4	
202-01000	REMOVAL OF FENCE	LF	66				66	
203-00050	UNSUITABLE MATERIAL	CY			40		40	
203-00060	EMBANKMENT MATERIAL (COMPLETE IN PLACE)	CY	89				89	
203-01582	TRUCK (DUMP)	HOUR	20				20	
203-01594	COMBINATION LOADER	HOUR	20				20	
203-01597	POTHOLING	HOUR	8				8	
203-02330	LABORER	HOUR	20				20	
206-00000	STRUCTURE EXCAVATION	CY			161		161	
206-00100	STRUCTURE BACKFILL (CLASS 1)	CY			208		208	
207-00700	TOPSOIL (ONSITE)	CY	37				37	
208-00046	PRE-FABRICATED CONCRETE WASHOUT STRUCTURE (TYPE 1)	EACH	1				1	
208-00075	PRE-FABRICATED VEHICLE TRACKING PAD	EACH	2				2	
208-00200	EROSION CONTROL MANAGEMENT	L S	1				1	
208-00400	WATER CONTROL	L S	1				1	
212-00006	SEEDING (NATIVE)	ACRE	0.07				0	
213-00004	MULCHING (WEED FREE STRAW)	ACRE	0.07				0	
216-00015	SOIL RETENTION BLANKET (EXCELSIOR)	SY	334				334	
304-02000	AGGREGATE BASE COURSE (CLASS 2)	TON			75		75	
304-06000	AGGREGATE BASE COURSE (CLASS 6)	TON	231				231	
403-34721	HOT MIX ASPHALT (GRADING SX) (75) (PG 58-28)	TON	64				64	
411-10255	EMULSIFIED ASPHALT (SLOW-SETTING)	GAL	20				20	
420-00133	GEOTEXTILE (SEPARATOR) (CLASS 2)	SY			100		100	
506-00212	RIPRAP (12 INCH)	CY	22				22	
601-03030	CONCRETE CLASS D (BOX CULVERT)	CY			95		95	
602-00000	REINFORCING STEEL	LB			26800		26800	
606-00301	GUARDRAIL TYPE 3 (6-3 POST SPACING)	LF	59				59	
606-01390	END ANCHORAGE TYPE 3K	EACH	3				3	
606-01392	INTERRUPTED STRUCTURE APPROACH	LF	47				47	
606-02003	END ANCHORAGE (NONFLARED)	EACH	1				1	
607-11300	FENCE COMBINATION WIRE WITH TREATED WOODEN POSTS	LF	67				67	
613-00200	2 INCH ELECTRICAL CONDUIT	LF	40				40	
620-00020	SANITARY FACILITY	EACH	1				1	
625-00000	CONSTRUCTION SURVEYING	L S	1				1	
626-00000	MOBILIZATION	L S	1				1	
627-00011	PAVEMENT MARKING PAINT (WATERBORNE)	GAL	1				1	
630-00016	TRAFFIC CONTROL (SPECIAL) LS	L S	1				1	
700-70010	F/A MINOR CONTRACT REVISIONS	F A	1				1	

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SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
SUMMARY OF APPROXIMATE QUANTITIES

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	SAQ	Subset Sheets:	1 of 1

Project No./Code	
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Sheet Number	8

Survey Control Diagram

Rio Blanco County, Colorado

Graphic Scale

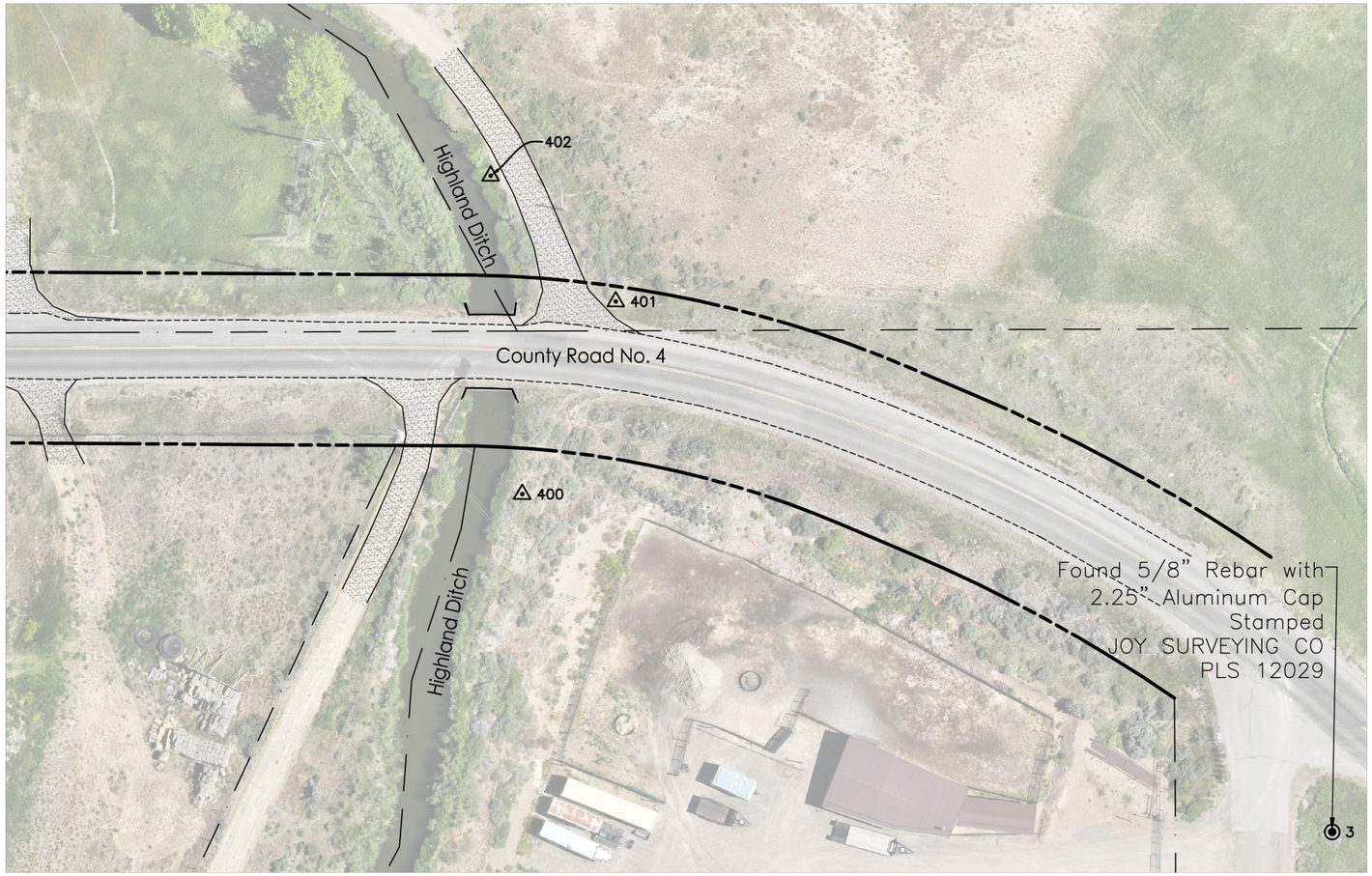
0 30 60 120

In Feet: 1" = 60'

Note: County Road Right-of-Way shown hereon is for reference only.

— LEGEND —

- ◉ — Found Survey Monument as described
- △ — Control Point
- Property Line
- Right-of-Way Line
- Edge of Asphalt
- — Gravel



SURVEY CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
3	39902.6790	70490.1480	6473.56	RC – 5BAR/2.25INCH AC–JOY SURV CO PLS12029–AKA STEINER
400	40041.0820	70158.3300	6477.58	CP – GOD SET 5BAR
401	40119.9770	70196.6540	6477.73	CP – EAST S6
402	40171.4210	70145.3800	6475.54	CP NORTH S6

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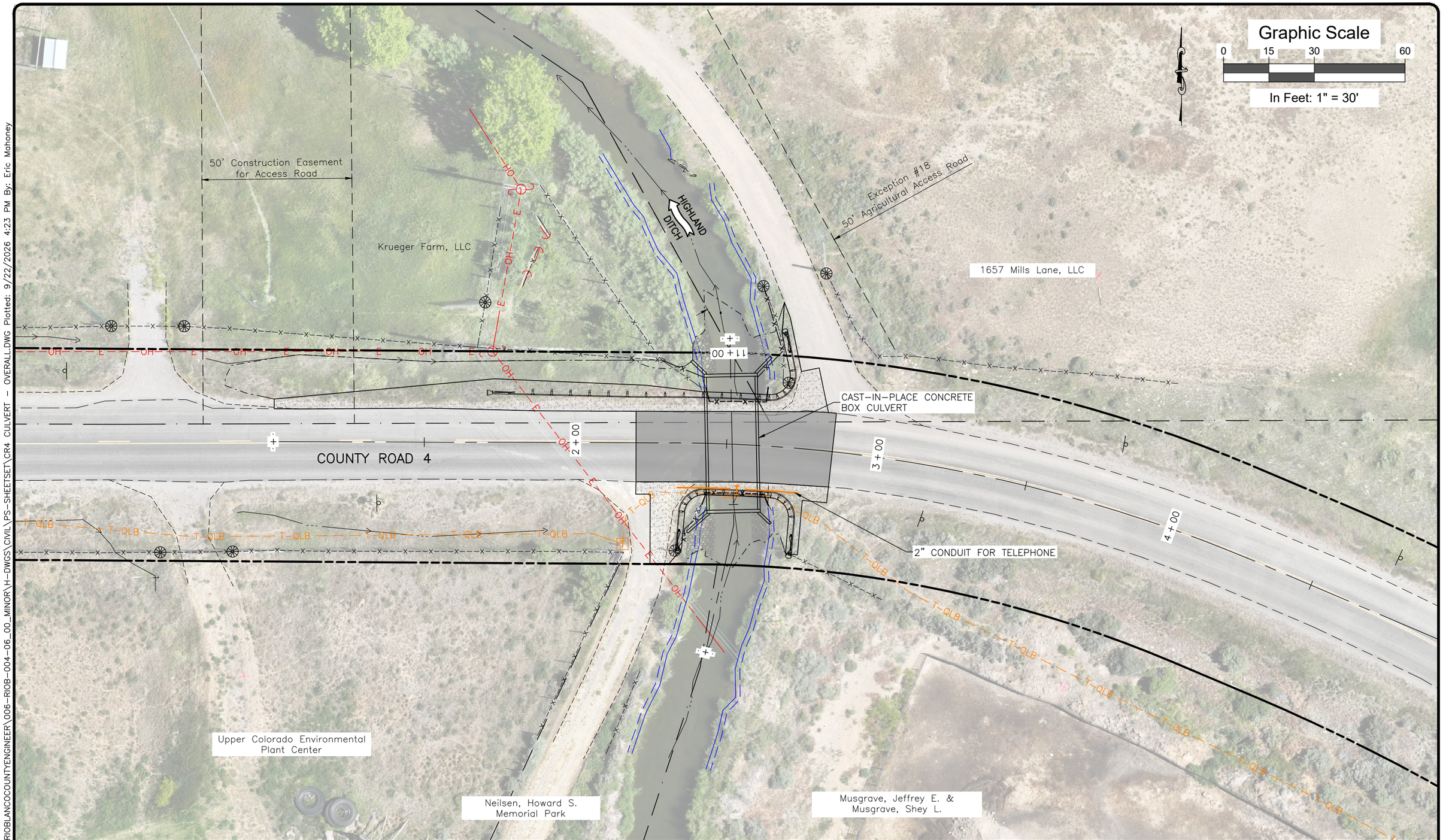
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Void:

COUNTY ROAD 4 HIGHLAND DITCH CULVERT
PROJECT CONTROL DIAGRAM

Surveyor:	REB	Structure Numbers	--
Drawn By:	RC		--
Sheet Subset:	PCD	Subset Sheets:	1 of 1

Project No./Code	
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Sheet Number	9

I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - ADMIN.DWG Plotted: 9/22/2026 4:23 PM By: Eric Mahoney



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Computer File Information	
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Last Modification Date: 9/16/26	
Drawing File Name: CR4 Culvert - Overall	
Autocad Ver. 2026	Scale: As Shown
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
OVERALL SITE PLAN

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	SITE	Subset Sheets:	1 of 1

Project No./Code	
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Sheet Number	10

I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - REMOVAL.DWG Plotted: 9/22/2026 4:23 PM By: Eric Mahoney

Graphic Scale
0 15 30 60
In Feet: 1" = 30'

50' Construction Easement for Access Road

END REMOVAL OF FENCE
STA 2+41.12 (18.46'L)

REMOVAL OF FENCE (15.8 LF)

BEGIN REMOVAL OF FENCE
PROTECT POST IN PLACE
STA 2+28.44 (27.32'L)

Krueger Farm, LLC

REMOVE SIGN
STA 2+44.01 (13.82'L)

HIGHLAND DITCH

END REMOVAL OF FENCE
PROTECT POST AND GATE IN PLACE
STA 2+59.20 (52.68'L)

Exception #18
50' Agricultural Access Road

REMOVAL OF FENCE (33.3 LF)

BEGIN REMOVAL OF FENCE
STA 2+67.15 (21.03'L)

1657 Mills Lane, LLC

REMOVE SIGN
STA 2+62.20 (14.49'L)

REMOVE BRIDGE
(SEE NOTES)

STA 2+18.00 (0.00')

STA 2+87.00 (0.00')

COUNTY ROAD 4

SAWCUT AND MILL ASPHALT
(5.2 SY)

SAWCUT AND MILL ASPHALT
(5.4 SY)

REMOVAL OF ASPHALT
(166.6 SY)

REMOVE SIGN
STA 2+43.66 (16.29'R)

REMOVE SIGN
STA 2+64.18 (15.84'R)

BEGIN REMOVAL OF FENCE
PROTECT POST AND GATE IN PLACE
STA 2+32.96 (35.65'R)

REMOVAL OF FENCE (17.2 LF)

END REMOVAL OF FENCE
STA 2+41.77 (20.56'R)

EXISTING TELEPHONE LINE
(SEE NOTE)

Upper Colorado Environmental Plant Center

Neilsen, Howard S. Memorial Park

Musgrave, Jeffrey E. & Musgrave, Shey L.

EXISTING TELEPHONE NOTE

1. COORDINATE TEMPORARY RELOCATION DURING CONSTRUCTION WITH LUMEN.

BRIDGE REMOVAL NOTES

1. A BRIDGE REMOVAL PLAN IN ACCORDANCE WITH CDOT STANDARD SPECIFICATION 202.02 IS NOT REQUIRED.
2. REMOVE EXISTING BRIDGE PILES TO A DEPTH OF AT LEAST 2 FEET BELOW THE BOTTOM OF THE PROPOSED BOX CULVERT.

LEGEND

FULL DEPTH ASPHALT REMOVAL

SAWCUT AND 2" MILL

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Print Date: 9/22/26	
Last Modification Date: 9/22/26	
Drawing File Name: CR4 Culvert - Removal	
Autocad Ver. 2026	Scale: As Shown
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions

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COUNTY ROAD 4 HIGHLAND DITCH CULVERT REMOVAL PLAN

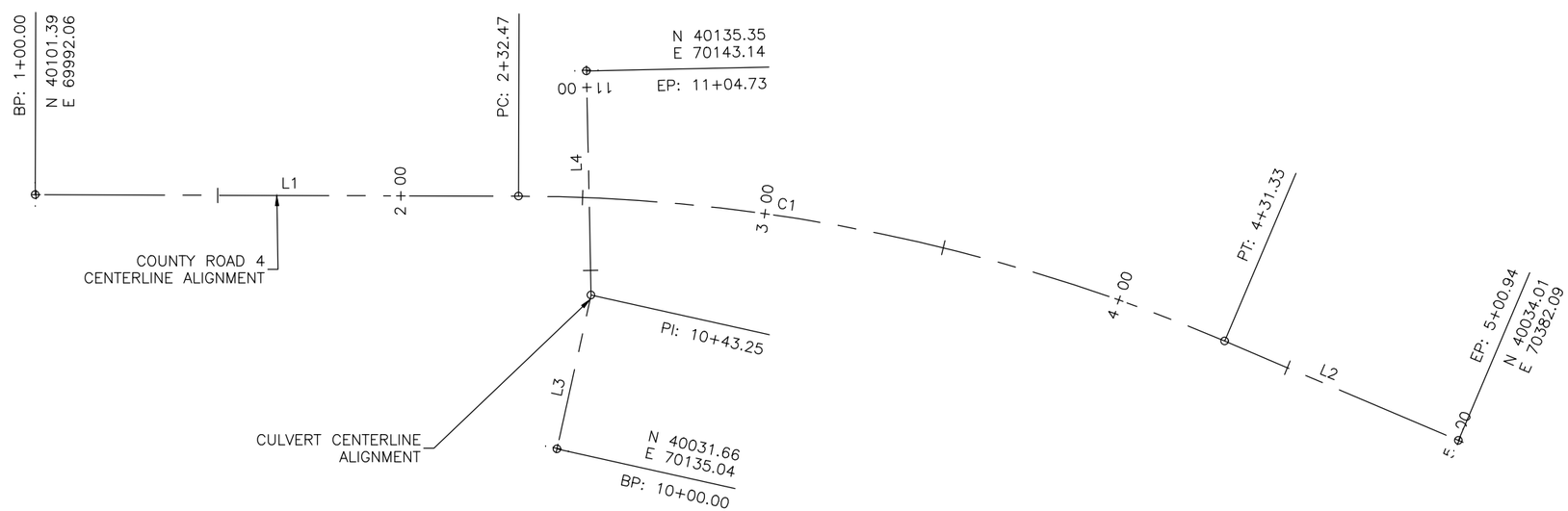
Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	REM	Subset Sheets:	1 of 1

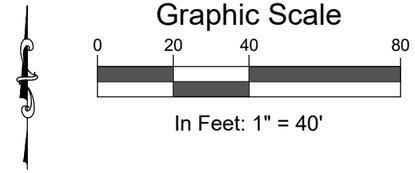
Project No./Code: --

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Sheet Number 11

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LINE TABLE		
LINE #	BEARING	LENGTH
L1	S89°50'01"E	132.47'
L2	S66°57'22"E	69.61'
L3	N12°31'13"E	43.25'
L4	N1°11'17"W	61.48'

CURVE TABLE					
CURVE #	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	198.86'	498.03'	S78°23'42"E	197.54'	22°52'39"

Computer File Information	
Print Date: 9/22/26	
Last Modification Date: 7/23/26	
Drawing File Name: CR4 Culvert - Geometry	
Autocad Ver. 2026	Scale: As Shown
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
GEOMETRY PLAN

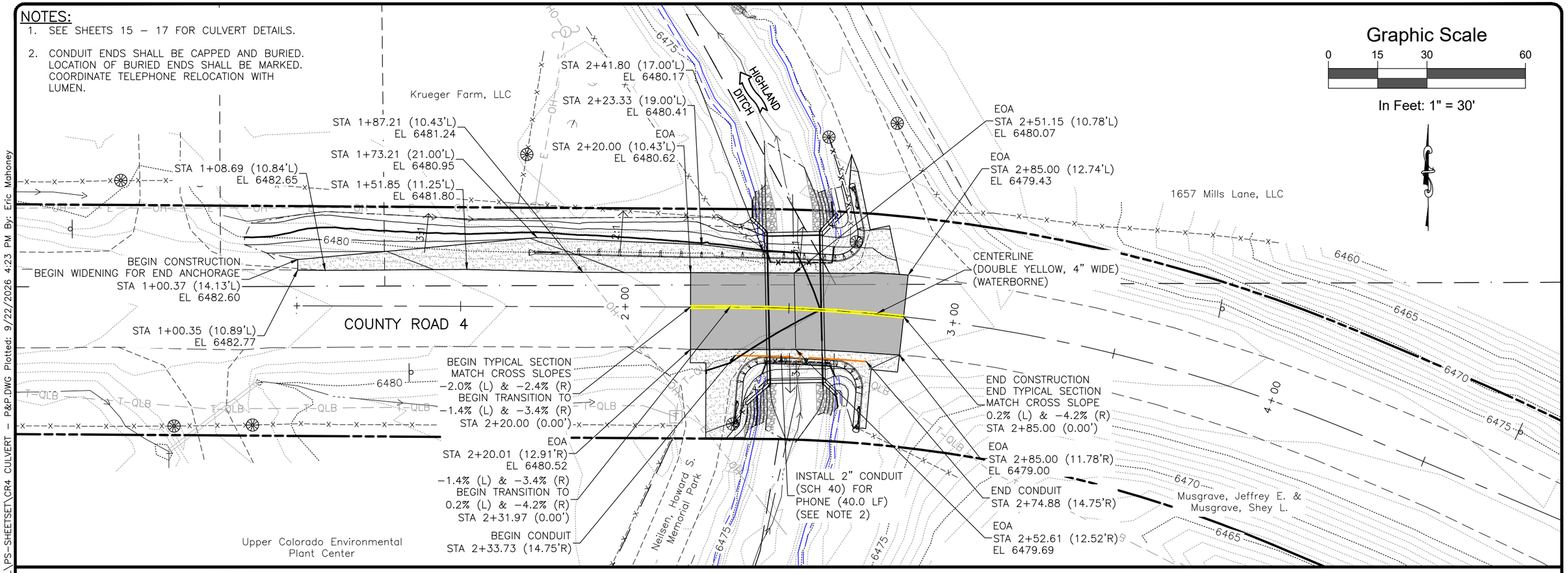
Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	GEOM	Subset Sheets:	1 of 1

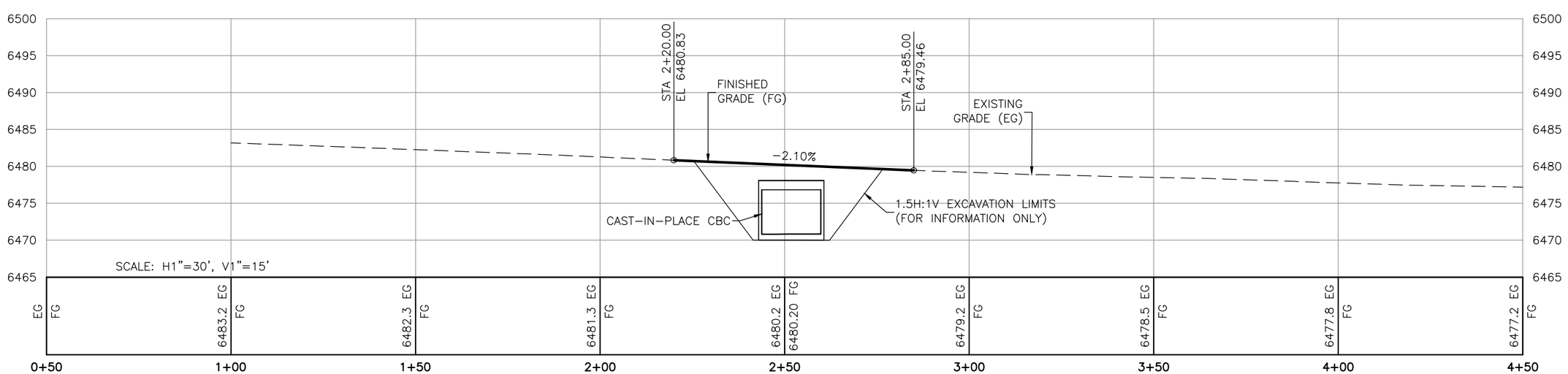
Project No./Code	
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Sheet Number	12

NOTES:

1. SEE SHEETS 15 – 17 FOR CULVERT DETAILS.
2. CONDUIT ENDS SHALL BE CAPPED AND BURIED. LOCATION OF BURIED ENDS SHALL BE MARKED. COORDINATE TELEPHONE RELOCATION WITH LUMEN.

Graphic Scale
0 15 30 60
In Feet: 1" = 30'





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Last Modification Date: 9/16/26	
Drawing File Name: CR4 Culvert - P&P	
Autocad Ver. 2026	Scale: As Shown
SGM Project No.: 2025-217.006	Quality Control: MDF

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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
COUNTY ROAD 4 PLAN & PROFILE

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	ROADWAY	Subset Sheets:	1 of 2

Project No./Code	
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Sheet Number	13

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NOTE:

1. INTERRUPTED STRUCTURE APPROACH GUARDRAIL SHALL BE SHOP BENT TO THE RADII SHOWN. FIELD BENDING WILL NOT BE PERMITTED.

Graphic Scale
0 10 20 40
In Feet: 1" = 20'

Krueger Farm, LLC

END GUARDRAIL TYPE 3
BEGIN INTERRUPTED STRUCTURE APPROACH
STA 2+60.00 (15.00'L)

HIGHLAND DITCH

COMBINATION WIRE FENCE
WITH WOODEN POSTS (15 LF)

GUARDRAIL TYPE 3
(40.63 LF)

BEGIN GUARDRAIL TYPE 3
(7-FOOT POST)
STA 2+20.20 (15.00'L)

COMBINATION WIRE FENCE
WITH WOODEN POSTS (34 LF)

END ANCHORAGE TYPE 3K

PT
END INTERRUPTED STRUCTURE APPROACH
STA 2+70.82 (25.82'L)

1657 Mills Lane, LLC

INTERRUPTED STRUCTURE
APPROACH (15.63 LF)

END ANCHORAGE (NON-FLARED)

R=8.50'
(SEE NOTE)

PC
STA 2+63.03 (15.00'L)

COUNTY ROAD 4

INTERRUPTED STRUCTURE
APPROACH (12.5 LF)

R=8.50'
(SEE NOTE)

GUARDRAIL TYPE 3
(18.75 LF)

PC
STA 2+65.67 (15.00'R)

PC
BEGIN INTERRUPTED STRUCTURE APPROACH
STA 2+34.25 (22.58'R)

R=8.50'
(SEE NOTE)

INTERRUPTED STRUCTURE
APPROACH (15.63 LF)

END ANCHORAGE TYPE 3K

END INTERRUPTED STRUCTURE APPROACH
STA 2+74.53 (22.57'R)

COMBINATION WIRE FENCE
WITH WOODEN POSTS (18 LF)

END ANCHORAGE TYPE 3K

END GUARDRAIL TYPE 3
BEGIN INTERRUPTED STRUCTURE APPROACH
STA 2+62.44 (15.00'R)

Upper Colorado Environmental
Plant Center

Nellsen, Howard S.
Memorial Park

PT
END INTERRUPTED STRUCTURE APPROACH
BEGIN GUARDRAIL TYPE 3
STA 2+43.11 (15.00'R)

Musgrave, Jeffrey E. &
Musgrave, Shey L.

6480 6475 6470 6465

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Drawing File Name: CR4 Culvert - P&P	
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
GUARDRAIL AND FENCING PLAN

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	ROADWAY	Subset Sheets:	2 of 2

Project No./Code	
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Sheet Number	14

GENERAL NOTES:

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2025; AND AS SUBSEQUENTLY REVISED; THE STANDARD PLANS (M&S STANDARDS) DATED 2026; AND AS SUBSEQUENTLY REVISED; AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE EITHER CALCULATED FROM A RECENT FIELD SURVEY OR NON-SURVEY GRADE MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD PRIOR TO ORDERING OR FABRICATING ANY MATERIAL.

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 (1-800-922-1987) AT LEAST 3 DAYS (2 DAYS NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURES DURING CONSTRUCTION.

GRADE 60 REINFORCING STEEL IS REQUIRED.

ALL LONGITUDINAL AND TRANSVERSE DIMENSIONS ARE MEASURED HORIZONTALLY AND INCLUDE NO CORRECTION FOR GRADE UNLESS OTHERWISE NOTED.

DRAWING SCALES ARE PROVIDED FOR REFERENCE ONLY. DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION OR ORDERING MATERIALS.

CONCRETE BOX CULVERT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE M-STANDARD PLANS:

M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES
M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE)
M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS
M-606-1	MGS TYPE 3 W-BEAM

STRUCTURAL EXCAVATION LIMITS ARE BASED ON DETAILS IN CDOT M-206-1 AND DO NOT REPRESENT ACTUAL EXCAVATION LIMITS. ADDITIONAL EXCAVATION BEYOND THE LIMITS SHOWN OR TEMPORARY EXCAVATION SUPPORT (SHORING) WILL NOT BE MEASURED AND PAID FOR.

STRUCTURAL BACKFILL LIMITS CORRESPOND TO THE EXCAVATION LIMITS SHOWN IN THE DETAILS IN THE CDOT M-206-1 STANDARD PLAN AND DOES NOT REPRESENT ACTUAL BACKFILL LIMITS. ADDITIONAL BACKFILL BEYOND THE LIMITS SHOWN WILL NOT BE MEASURED AND PAID FOR.

THE REMOVAL OF THE EXISTING BRIDGE SHALL BE MEASURED AND PAID FOR UNDER CDOT ITEM 202-00400, REMOVAL OF BRIDGE, IN ACCORDANCE WITH SECTION 202 OF THE CDOT STANDARD SPECIFICATIONS. PAYMENT SHALL BE FULL COMPENSATION FOR LABOR, MATERIALS, EQUIPMENT, ENGINEERING, REMOVAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

THE CONTRACTOR SHALL TAKE ALL STEPS TO AVOID CONTAMINATING STATE WATERS, IN ACCORDANCE WITH SUBSECTION 107.25.

DESIGN DATA - CIP CONCRETE BOX CULVERT:

AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 7TH EDITION WITH CURRENT INTERIMS
DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

CAST-IN-PLACE CONCRETE BOX STRUCTURE SHALL CONFORM TO CDOT M-601-1

LIVE LOAD: HL-93 (DESIGN TRUCK OR TANDEM, AND DESIGN LANE LOAD), CO PERMIT VEHICLE, NOTIONAL RATING LOAD (NRL)

DEAD LOADS: WEARING SURFACE - 147 PCF FOR ASPHALT PAVEMENT

EARTH LOADS: CASES 1 AND 2 PER CDOT M-601-1 FOR VERTICAL AND HORIZONTAL EARTH LOADS

REINFORCED CONCRETE (CLASS D):
f'_c = 4,500 PSI

REINFORCING STEEL (ASTM A615 GR 60):
f_y = 60,000 PSI

SEISMIC DESIGN CRITERIA:

LATITUDE = 40.0053° N LONGITUDE = 107.8398° W

AASHTO-USGS SEISMIC DESIGN GROUND MOTION DATABASE

PERIOD (sec)	S_A (g)	
0.0	0.130 A_s	- SITE CLASS D (ASSUMED)
0.2	0.250 S_{DS}	- SITE CLASS D
1.0	0.075 S_{D1}	- SITE CLASS D

SEISMIC PERFORMANCE ZONE = 1

IN ACCORDANCE WITH CDOT BRIDGE DESIGN MANUAL 11.5.16, SEISMIC ANALYSIS WAS NOT PERFORMED.

STRUCTURE DESCRIPTION - CULVERT:

RIO BLANCO COUNTY, CR-4, MP 6.00
16'-0" X 6'-0" X 46'-0" CAST-IN-PLACE CONCRETE BOX CULVERT CONVEYING THE HIGHLAND DITCH

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Drawing File Name: CR4 Culvert_GenNotes	
Autocad Ver. 2026 Scale: NTS	
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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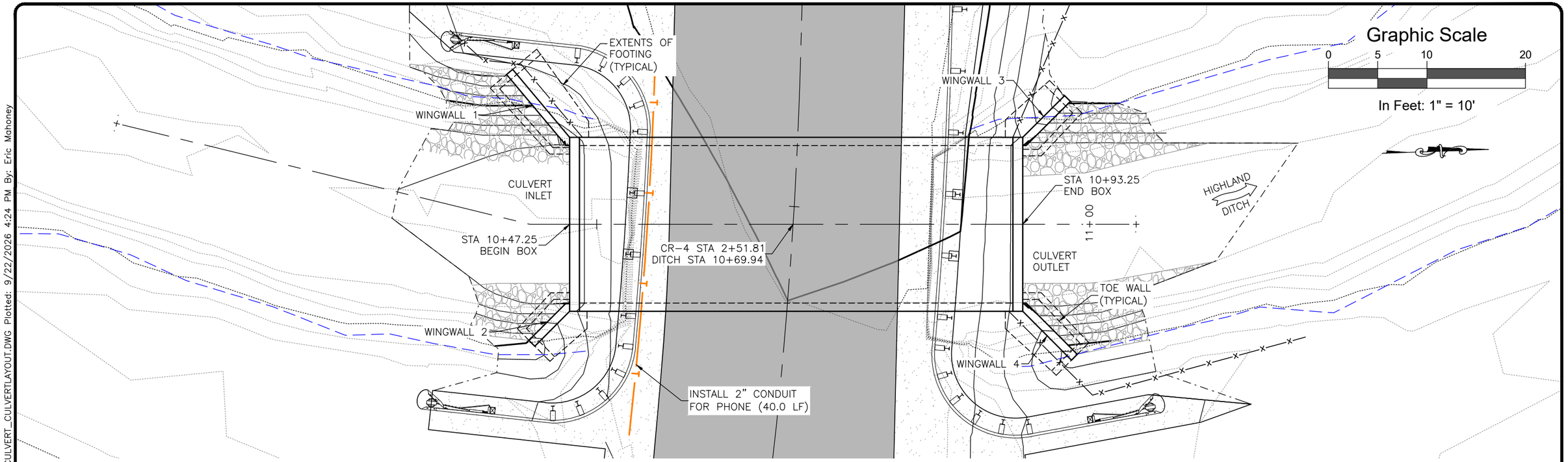
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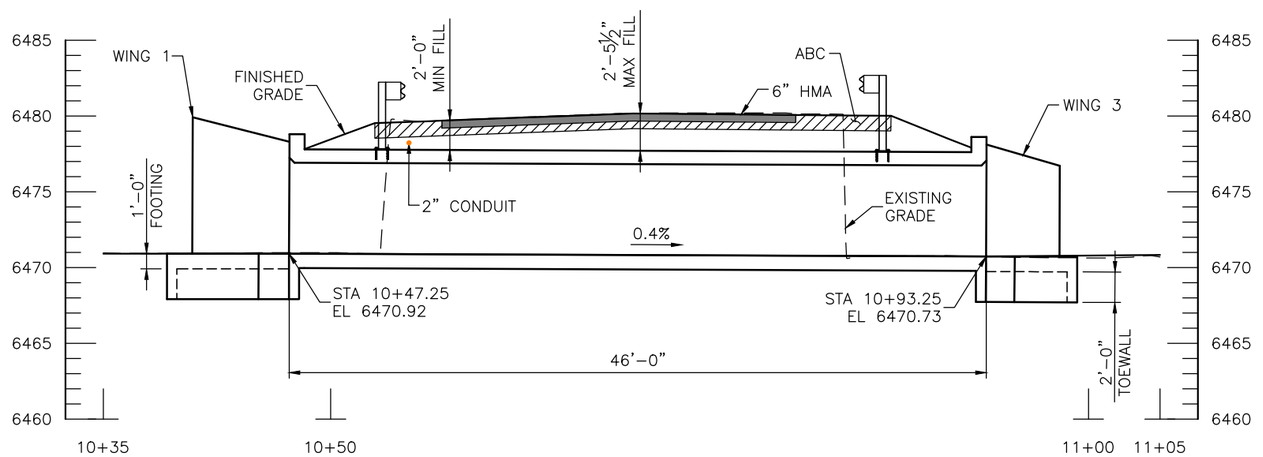
COUNTY ROAD 4 HIGHLAND DITCH CULVERT
STRUCTURAL GENERAL NOTES

Engineer:	AMC	Structure Numbers	--
Drawn By:	SPM		--
Sheet Subset:	CULVERT	Subset Sheets:	1 of 3

Project No./Code
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Sheet Number 15



PLAN



PROFILE
(TAKEN ALONG ℄ OF BOX)

Computer File Information	
Print Date: 9/22/26	
Last Modification Date: 9/16/26	
Drawing File Name: CR4 Culvert_CulvertLayout	
Autocad Ver. 2026	Scale: As Shown
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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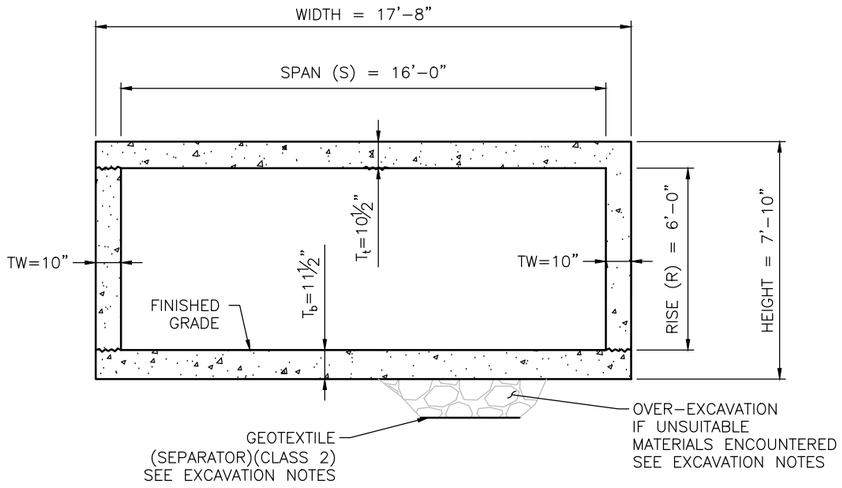
As Constructed
No Revisions:
Revised:
Void:

COUNTY ROAD 4 HIGHLAND DITCH CULVERT
CULVERT LAYOUT

Engineer:	MDF	Structure Numbers	--
Drawn By:	SPM		--
Sheet Subset:	CULVERT	Subset Sheets:	2 of 3

Project No./Code	
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Sheet Number	16

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CAST-IN-PLACE BOX TYPICAL SECTION

(PER M-601-1 FOR FILL HT 2' TO 6')

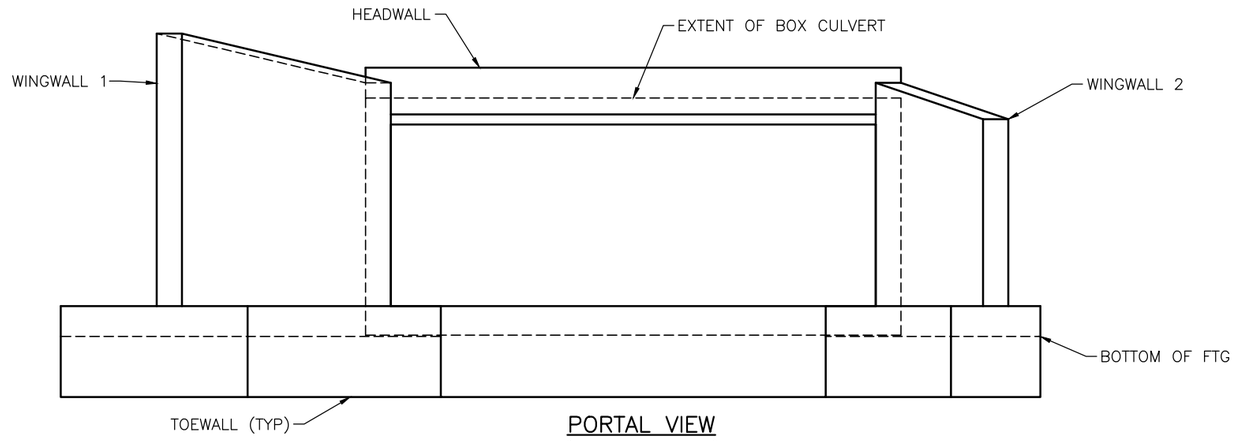
EXCAVATION NOTES:

1. PROJECT GEOTECHNICAL ENGINEER SHALL BE CONTACTED AND ALLOWED TO INSPECT THE BOTTOM OF EXCAVATION PRIOR TO FORMING THE BOTTOM SLAB.

2. IF UNSUITABLE MATERIAL IS ENCOUNTERED BELOW THE BOTTOM SLAB, OVER-EXCAVATE THE UNSUITABLE MATERIAL AND REPLACE WITH PIT RUN MATERIAL IN GENERAL CONFORMANCE WITH CDOT AGGREGATE BASE COURSE (CLASS 2). SEPARATOR GEOTEXTILE MAY BE REQUIRED AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.

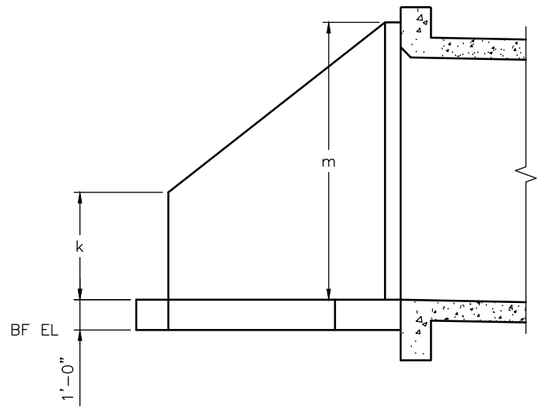
3. PAYMENT FOR OVEREXCAVATION AND REPLACEMENT WITH SUITABLE MATERIAL WILL BE PAID FOR WITH THE FOLLOWING ITEMS:

203-00050	UNSUITABLE MATERIAL
304-02000	AGGREGATE BASE COURSE (CLASS 2)
420-00133	GEOTEXTILE (SEPARATOR)(CLASS 2)



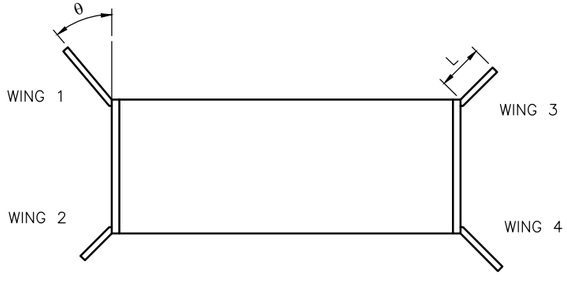
PORTAL VIEW

(VIEW FROM INLET)



WINGWALL DETAIL

(SECTION TAKEN ALONG ℄ BOX)



WINGWALL CONFIGURATION

WINGWALL NOTES:

1. WING 1 STILL CONFORMS TO CDOT STANDARD M-601-1. REVERSE ASPECT RATIO FOR C-BAR DETERMINATION AND USE END HEIGHT FOR D-BAR DETERMINATION.

WINGWALL GEOMETRY

WING	L	θ	k	m	BF EL
1	9'-0"	40°	9'-0"	7'-4½"	6469.92
2	5'-0"	45°	6'-0"	7'-4½"	6469.92
3	6'-0"	45°	6'-0"	7'-4½"	6469.73
4	7'-0"	45°	6'-0"	7'-4½"	6469.73

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Print Date:	9/22/26
Last Modification Date:	9/1/26
Drawing File Name:	CR4 Culvert_CulvertDetail
Autocad Ver. 2026	Scale: NTS
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Sheet Revisions			
Rev.	Date	Comments	Init.
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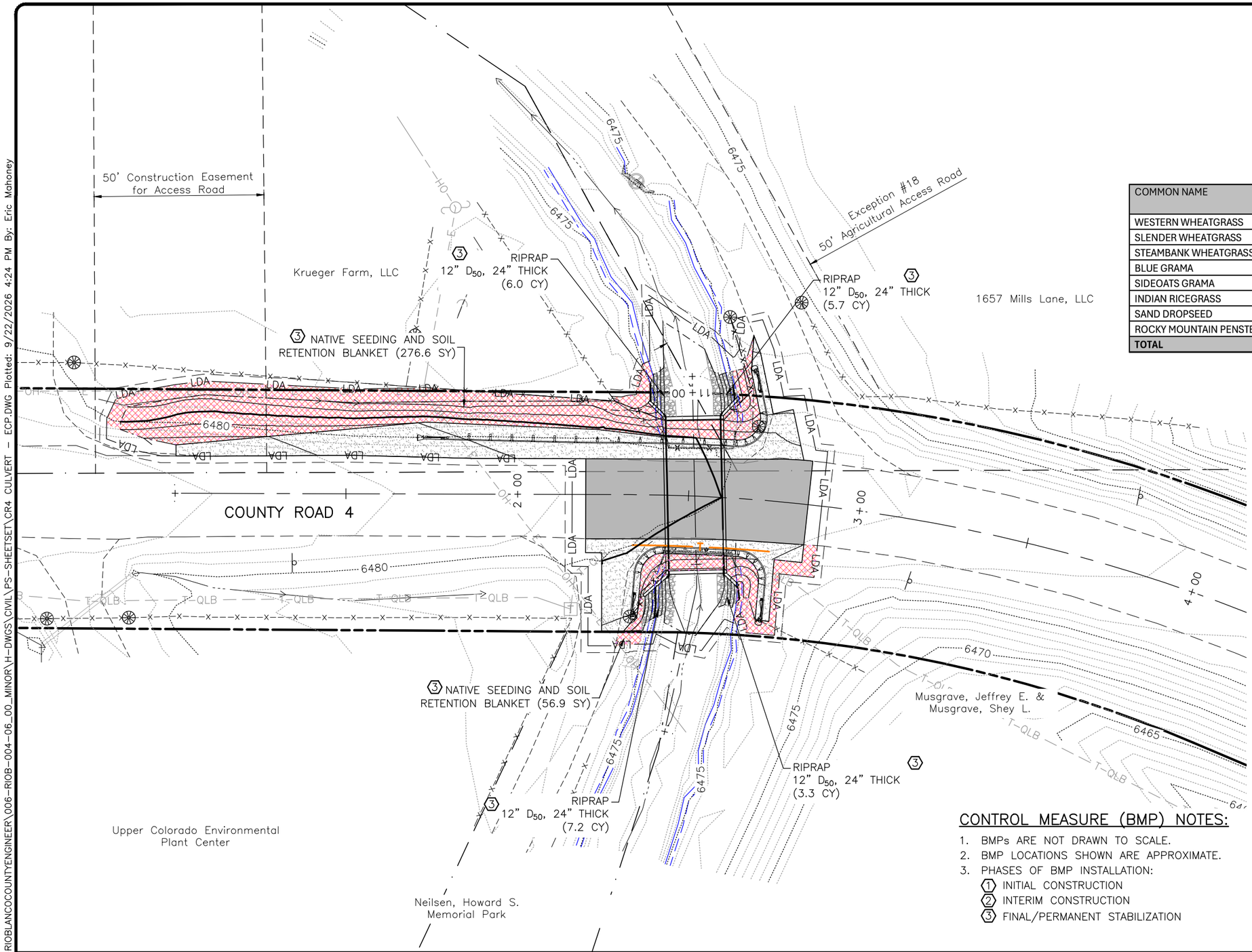
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT
CULVERT DETAILS

Engineer:	MDF	Structure Numbers	--
Drawn By:	SPM		--
Sheet Subset:	CULVERT	Subset Sheets:	3 of 3

Project No./Code	
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Sheet Number	17

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COMMON NAME	BOTANICAL NAME	% BY WEIGHT	LBS. PLS PER ACRE
WESTERN WHEATGRASS	PASCOPYRUM SMITHII ARRIBA	30%	9.0
SLENDER WHEATGRASS	ELYMUS TRACHYCAULUS SAN LUIS	10%	3.0
STEAMBANK WHEATGRASS	ELYMUS LANCEOLATUS SSP. PSAMMOPHILUS	10%	3.0
BLUE GRAMA	BOUTELOUA GRACILIS	15%	4.5
SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA	15%	4.5
INDIAN RICEGRASS	ACHNATHERUM HYMENOIDES NEZPAR	10%	3.0
SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	5%	1.5
ROCKY MOUNTAIN PENSTEMON	PENSTEMON STRICTUS	5%	1.5
TOTAL		100%	**30.0**

LEGEND

- NATIVE SEEDING & MULCHING
- SOIL RETENTION BLANKET & SEEDING
- RIPRAP (12 INCH)
- CF — CONSTRUCTION FENCE
- FENCE (PLASTIC)
- LDA — LIMITS OF DISTURBED AREA (LDA)
- LIMITS OF CONSTRUCTION (LOC)
- TOP OF CUT
- TOE OF FILL
- EROSION LOG (12 INCHES)
- CHECK DAM (EROSION LOG)
- FLOW ARROW (DIRECTION OF FLOW)

CONTROL MEASURE (BMP) NOTES:

1. BMPs ARE NOT DRAWN TO SCALE.
2. BMP LOCATIONS SHOWN ARE APPROXIMATE.
3. PHASES OF BMP INSTALLATION:
   - (1) INITIAL CONSTRUCTION
   - (2) INTERIM CONSTRUCTION
   - (3) FINAL/PERMANENT STABILIZATION

I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - ECP.DWG Plotted: 9/22/2026 4:24 PM By: Eric Mahoney

Computer File Information	
Print Date: 9/22/26	
Last Modification Date: 9/2/26	
Drawing File Name: CR4 Culvert - ECP	
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SGM Project No.: 2025-217.006	Quality Control: MDF

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Rev.	Date	Comments	Init.
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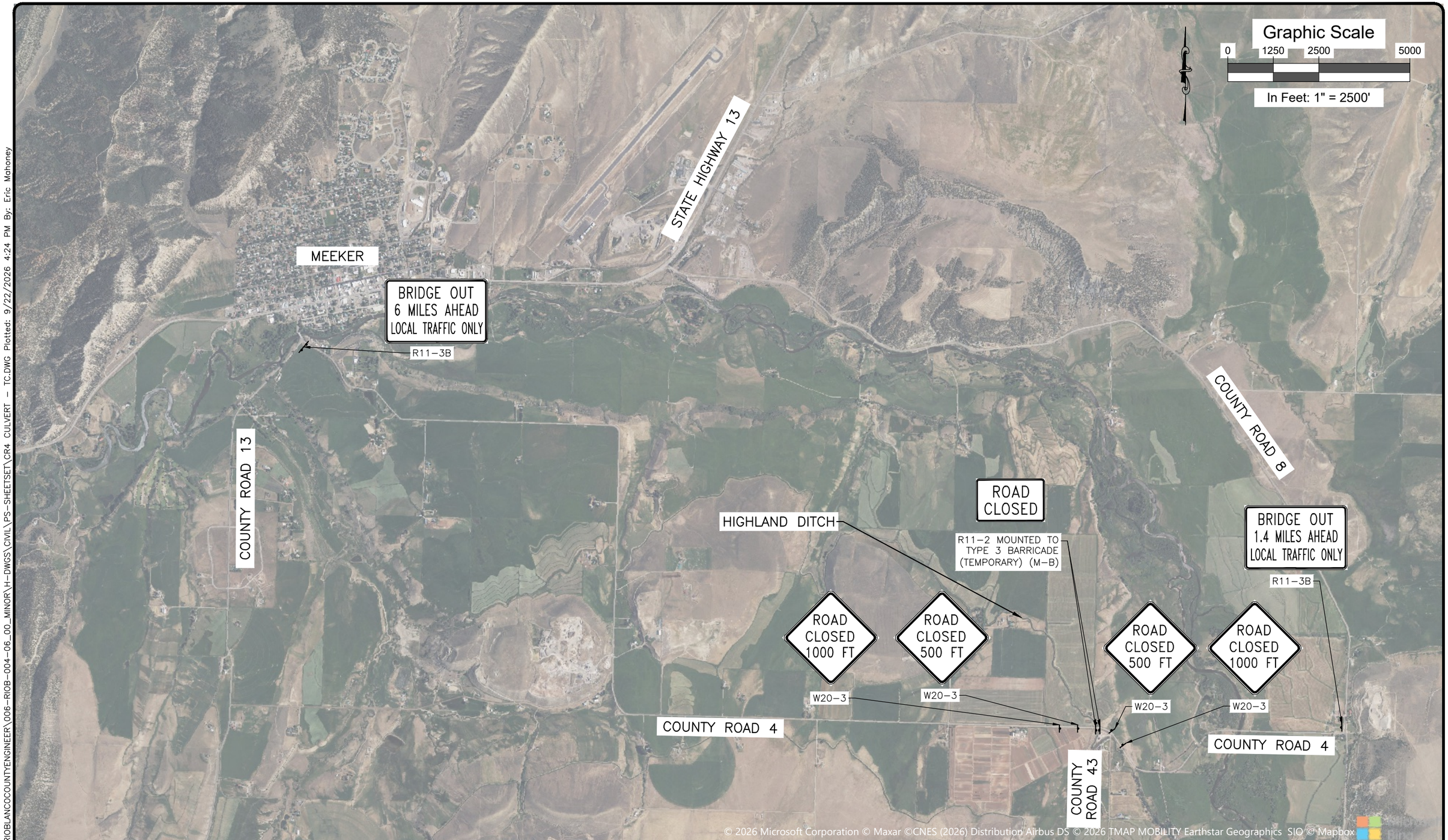
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As Constructed
No Revisions:
Revised:
Void:

COUNTY ROAD 4 HIGHLAND DITCH CULVERT EROSION CONTROL PLAN

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	ECP	Subset Sheets:	1 of 1

Project No./Code	
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Sheet Number	18



I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - TC.DWG Plotted: 9/22/2026 4:24 PM By: Eric Mahoney

Computer File Information	
Print Date: 9/22/26	
Last Modification Date: 8/27/26	
Drawing File Name: CR4 Culvert - TC	
Autocad Ver. 2026	Scale: As Shown
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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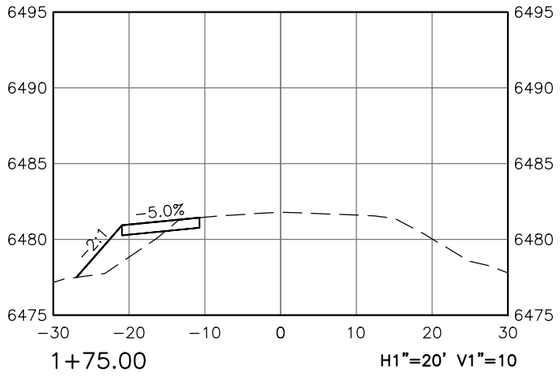
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No Revisions:
Revised:
Void:

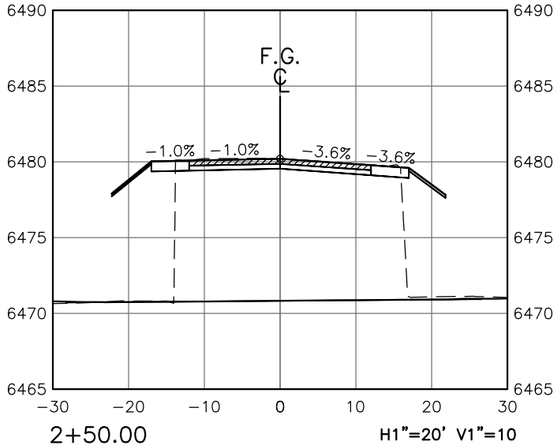
COUNTY ROAD 4 HIGHLAND DITCH CULVERT TRAFFIC CONTROL PLAN

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	TC	Subset Sheets:	1 of 1

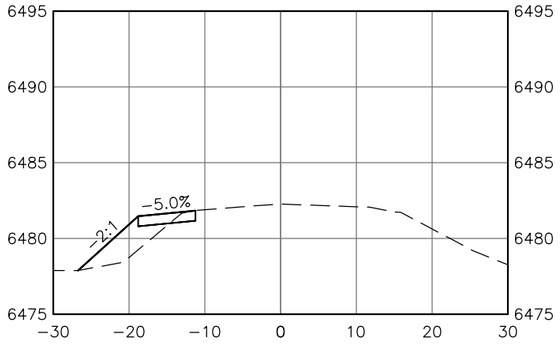
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Sheet Number	19



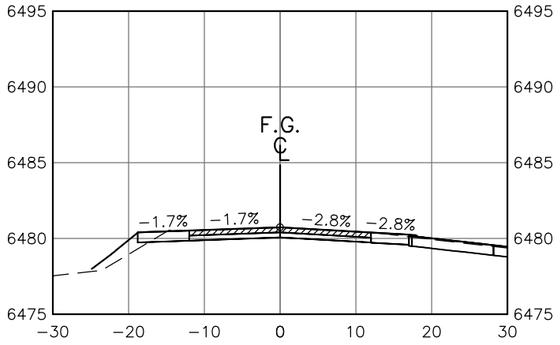
1+75.00 H1"=20' V1"=10



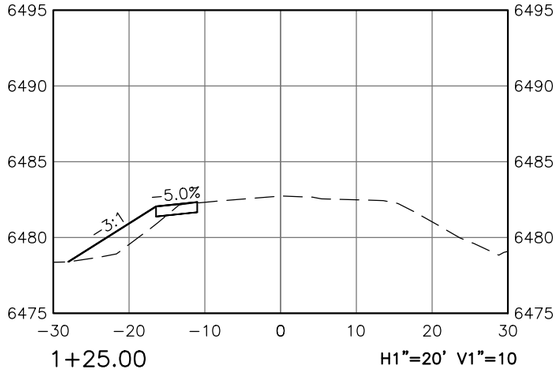
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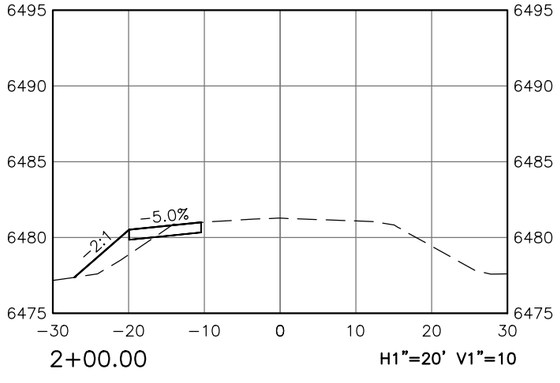
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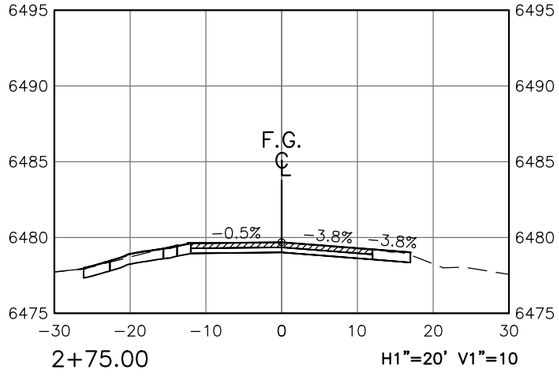
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1+25.00 H1"=20' V1"=10



2+00.00 H1"=20' V1"=10



2+75.00 H1"=20' V1"=10

I:\2025\2025-217-RIOBLANCOCOUNTYENGINEER\006-RIOB-004-06_00_MINOR\H-DWGS\CIVIL\PS-SHEETSET\CR4 CULVERT - XS.DWG Plotted: 9/22/2026 4:24 PM By: Eric Mahoney

Computer File Information	
Print Date: 9/22/26	
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Autocad Ver. 2026	Scale: As Shown
SGM Project No.: 2025-217.006	Quality Control: MDF

Sheet Revisions			
Rev.	Date	Comments	Init.
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COUNTY ROAD 4 HIGHLAND DITCH CULVERT CROSS SECTIONS

Engineer:	AMC	Structure Numbers	--
Drawn By:	EJM		--
Sheet Subset:	XS	Subset Sheets:	1 of 1

Project No./Code	
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Sheet Number	20