Grading and Erosion Control Plan

Contract Drawings For

Colorado Springs Utilities

Northern Monument Creek Interceptor and Middle Tributary Lift Station Interceptor Connection

100% Design Review

HDR Project No. 10393769

Colorado Springs, Colorado
March 2026

Please add this text:

EPC EDARP File No.:
CDR266

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NMCI SHEET LIST

GENERAL	
00G000	COVER
00G001	SHEET LIST
00G002	NOTES
00G003	GENERAL LEGEND
00G004	CIVIL LEGEND
00G005	ABBREVIATIONS
~~00G006~~	~~SOIL BORINGS LOG~~
~~00G007~~	~~MANHOLE TABLE~~
~~00G008~~	~~INVERTED SIPHON MANHOLE TABLE~~
~~00G009~~	~~POTHOLE TABLE~~
~~00G010~~	~~AIRFIELD RESTRICTIONS~~
00G011	SURVEY CONTROL
~~00G012~~	~~SHEET LAYOUT (1 OF 2)~~
~~00G013~~	~~SHEET LAYOUT (2 OF 2)~~
NORTHERN MONUMENT CREEK INTERCEPTOR	
01C100	PLAN AND PROFILE - STA 0+52.22 TO STA 9+00
01C101	PLAN AND PROFILE - STA 9+00 TO STA 20+50
~~01C102~~	~~PLAN AND PROFILE - STA 20+50 TO STA 33+50~~
~~01C103~~	~~PLAN AND PROFILE - STA 33+50 TO STA 46+00~~
~~01C104~~	~~PLAN AND PROFILE - STA 46+00 TO STA 58+00~~
~~01C105~~	~~PLAN AND PROFILE - STA 58+00 TO STA 70+50~~
~~01C106~~	~~PLAN AND PROFILE - STA 70+50 TO STA 92+50~~
~~01C107~~	~~PLAN AND PROFILE - STA 92+50 TO STA 105+00~~
~~01C108~~	~~PLAN AND PROFILE - STA 105+00 TO STA 117+00~~
~~01C109~~	~~PLAN AND PROFILE - STA 117+00 TO STA 142+50~~
~~01C110~~	~~PLAN AND PROFILE - STA 142+50 TO STA 155+00~~
~~01C111~~	~~PLAN AND PROFILE - STA 155+00 TO STA 167+50~~
~~01C112~~	~~PLAN AND PROFILE - STA 167+50 TO STA 180+00~~
~~01C113~~	~~PLAN AND PROFILE - STA 180+00 TO STA 202+50~~
~~01C114~~	~~PLAN AND PROFILE - STA 202+50 TO STA 215+00~~
~~01C115~~	~~PLAN AND PROFILE - STA 215+00 TO STA 227+00~~
~~01C116~~	~~PLAN AND PROFILE - STA 227+00 TO STA 239+50~~
~~01C117~~	~~PLAN AND PROFILE - STA 239+50 TO STA 266+00~~
~~01C118~~	~~PLAN AND PROFILE - STA 266+00 TO STA 278+50~~
~~01C119~~	~~PLAN AND PROFILE - STA 278+50 TO STA 291+00~~
~~01C120~~	~~PLAN AND PROFILE - STA 291+00 TO STA 303+50~~
~~01C121~~	~~PLAN AND PROFILE - STA 303+50 TO STA 330+00~~
~~01C122~~	~~PLAN AND PROFILE - STA 330+00 TO STA 354+00~~
~~01C123~~	~~PLAN AND PROFILE - STA 354+00 TO STA 366+50~~
~~01C124~~	~~PLAN AND PROFILE - STA 366+50 TO STA 379+00~~
~~01C125~~	~~PLAN AND PROFILE - STA 379+00 TO STA 391+50~~
~~01C126~~	~~PLAN AND PROFILE - STA 391+50 TO STA 419+50~~
~~01C127~~	~~PLAN AND PROFILE - STA 419+50 TO STA 432+00~~
~~01C128~~	~~PLAN AND PROFILE - STA 432+00 TO STA 444+50~~
~~01C129~~	~~PLAN AND PROFILE - STA 444+50 TO STA 457+50~~
~~01C130~~	~~PLAN AND PROFILE - STA 457+50 TO STA 500+50~~
~~01C131~~	~~PLAN AND PROFILE - STA 500+50 TO STA 513+00~~
~~01C132~~	~~PLAN AND PROFILE - STA 513+00 TO STA 526+00~~
~~01C133~~	~~PLAN AND PROFILE - STA 526+00 TO STA 538+00~~
~~01C134~~	~~PLAN AND PROFILE - STA 538+00 TO STA 565+50~~
01C135	PLAN AND PROFILE - STA 565+50 TO STA 578+00
01C136	PLAN AND PROFILE - STA 578+00 TO STA 587+62.67
~~01D501~~	~~DETAILS~~
~~01D502~~	~~DETAILS~~
~~01D503~~	~~DETAILS~~
~~01D504~~	~~DETAILS~~
~~01D505~~	~~DETAILS~~
~~01D506~~	~~CATHODIC PROTECTION DETAILS~~
~~01D507~~	~~TUNNEL DETAILS~~
~~01D508~~	~~TUNNEL DETAILS~~
~~01D509~~	~~INSTRUMENTATION AND MONITORING - NMCI I-25 CROSSING~~
~~01D510~~	~~INSTRUMENTATION AND MONITORING - INDUSTRIAL DRIVE CROSSING~~
~~01D511~~	~~INSTRUMENTATION AND MONITORING - SOUTH GATE CROSSING~~
~~01D512~~	~~INSTRUMENTATION AND MONITORING - MTLSI I-25 CROSSING~~
~~01D513~~	~~INSTRUMENTATION AND MONITORING - 60-INCH WATERLINE CROSSING~~
INVERTED SIPHON	
~~02C101~~	~~KETTLE CREEK CROSSING~~
~~02C102~~	~~BLACK SQUIRREL CREEK CROSSING~~
~~02C103~~	~~BLACK SQUIRREL CREEK CROSSING~~
~~02C104~~	~~MIDDLE TRIBUTARY CROSSING~~
~~02C105~~	~~MONUMENT BRANCH CROSSING~~
~~02C106~~	~~MONUMENT BRANCH CROSSING~~
~~02C107~~	~~SMITH CREEK CROSSING~~
~~02C108~~	~~SMITH CREEK CROSSING~~
~~02D401~~	~~DOWNSTREAM OUTLET STRUCTURES - ENLARGED PLAN~~
~~02D402~~	~~UPSTREAM INLET STRUCTURES - ENLARGED PLAN~~
~~02D101~~	~~DOWNSTREAM OUTLET STRUCTURES LAYOUT~~
~~02D102~~	~~UPSTREAM INLET STRUCTURES LAYOUT~~
~~02D301~~	~~DOWNSTREAM OUTLET STRUCTURES SECTIONS~~
~~02D302~~	~~UPSTREAM INLET STRUCTURES SECTIONS~~
~~02D501~~	~~DETAILS~~
~~02D502~~	~~DETAILS~~
~~02D701~~	~~DOWNSTREAM INVERTED SIPHON - STRUCTURES ISOMETRIC VIEW~~
~~02D702~~	~~UPSTREAM INVERTED SIPHON - STRUCTURES ISOMETRIC VIEW~~
MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR	
~~03C101~~	~~PLAN AND PROFILE - STA 10+00 TO STA 17+00~~
03C102	PLAN AND PROFILE - STA 17+00 TO STA 23+30
~~03C801~~	~~PARTIAL PLAN & PROFILE AND LIFT STATION SITE DEMOLITION PLAN~~
~~03D501~~	~~DETAILS~~
SITE ACCESS	
~~04C101~~	~~SITE ACCESS PLAN (1 OF 11)~~
~~04C102~~	~~SITE ACCESS PLAN (2 OF 11)~~
~~04C103~~	~~SITE ACCESS PLAN (3 OF 11)~~
~~04C104~~	~~SITE ACCESS PLAN (4 OF 11)~~
~~04C105~~	~~SITE ACCESS PLAN (5 OF 11)~~
~~04C106~~	~~SITE ACCESS PLAN (6 OF 11)~~
~~04C107~~	~~SITE ACCESS PLAN (7 OF 11)~~
~~04C108~~	~~SITE ACCESS PLAN (8 OF 11)~~
~~04C109~~	~~SITE ACCESS PLAN (9 OF 11)~~
~~04C110~~	~~SITE ACCESS PLAN (10 OF 11)~~
~~04C111~~	~~SITE ACCESS PLAN (11 OF 11)~~
SWMP/GEC	
05C001	NOTES
05C002	COLORADO SPRINGS & USAFA NOTES
05C003	EL PASO COUNTY NOTES
05C004	STORM WATER MANAGEMENT PLAN - DETAILS
05C005	STORM WATER MANAGEMENT PLAN - DETAILS
05C006	STORM WATER MANAGEMENT PLAN - DETAILS
05C007	STORM WATER MANAGEMENT PLAN - DETAILS
05C008	STORM WATER MANAGEMENT PLAN - DETAILS
05C009	STORM WATER MANAGEMENT PLAN - DETAILS
05C101	STORM WATER MANAGEMENT PLAN - STA 00+00 TO STA 20+50
05C102	STORM WATER MANAGEMENT PLAN - STA 20+50 TO STA 46+00
05C103	STORM WATER MANAGEMENT PLAN - STA 46+00 TO STA 70+50
05C104	STORM WATER MANAGEMENT PLAN - STA 70+50 TO STA 92+60
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05C124	STORM WATER MANAGEMENT PLAN - STA 565+50 TO STA 578+25
05C125	STORM WATER MANAGEMENT PLAN - STA 578+25 TO STA 587+62.67
05C401	STORM WATER MANAGEMENT PLAN - ACCESS ROUTE TO STAGING AREA 1
05C402	STORM WATER MANAGEMENT PLAN - ACCESS ROUTE TO STAGING AREA 3

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY
NOT FOR
CONSTRUCTION OR
RECORDING

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

GENERAL
SHEET LIST

0 1" 2"

FILENAME 00G001.DWG
SCALE NO SCALE

SHEET
00G001

GENERAL NOTES

1. EXISTING SEWERS, WATER MAINS, GAS MAINS, TELEPHONE CONDUITS, ELECTRIC CABLES, AND OTHER UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN ON THE DRAWINGS ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION AND QUANTITIES OF BURIED UTILITIES AND STRUCTURES SHOWN. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR BUT IS NOT GUARANTEED TO BE EITHER CORRECT OR COMPLETE AND ALL RESPONSIBILITY FOR THE ACCURATE COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED. THE CONTRACTOR SHALL MAKE SUCH INVESTIGATION AS NECESSARY TO VERIFY ITS CORRECTNESS AND COMPLETENESS. THE CONTRACTOR SHALL FIELD LOCATE AND PROTECT, AHEAD OF EXCAVATION, ALL UNDERGROUND UTILITIES AND STRUCTURES SO THAT THEY WILL NOT BE ACCIDENTALLY CUT OR DAMAGED BY CONSTRUCTION OPERATION.
2. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING SURFACE FEATURES AND IMPROVEMENTS ENCOUNTERED DURING EXCAVATION OR DISTURBED BY CONSTRUCTION ACTIVITIES (FENCING, UTILITIES, ASPHALT OR GRAVEL PAVEMENT, RIP-RAP, ETC...) TO THEIR ORIGINAL CONDITION (OR BETTER) AND COORDINATING THIS ACTIVITY WITH THE APPROPRIATE PARTY. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER AND SHALL APPLY TO ALL EXISTING IMPROVEMENTS WHETHER SHOWN ON THE PLANS OR NOT.
3. "SCREENED" (LIGHT) DELINEATION INDICATED ON THE DRAWINGS DENOTES EXISTING FACILITIES. "SCREENED" INFORMATION WAS TAKEN FROM EXISTING CONSTRUCTION DRAWINGS AND DATA, IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE ORDERING OF MATERIAL AND BEGINNING OF CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT OR FUTURE WORK BY OTHERS AS INDICATED.
4. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION DISTURBANCES, STAGING, PARKING AND MATERIAL STORAGE TO PERMITTED LIMITS OF DISTURBANCE AND THE SPACE(S) DESIGNATED ON THE DRAWINGS. PERMANENT AND TEMPORARY EASEMENTS WILL BE OBTAINED BY COLORADO SPRINGS UTILITIES. PROVIDING ADDITIONAL STORAGE OR PARKING SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY THE CONTRACTOR. ALL LAND SHALL BE RETURNED TO THE OWNER(S) IN THE SAME OR BETTER CONDITION. PROVIDE UTILITIES AND ENGINEER WITH RECORD OF INDEPENDENT AGREEMENTS.
5. CALL BEFORE YOU DIG. CONTRACTOR SHALL VERIFY PRECISE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AND STRUCTURES, WHETHER INDICATED ON THE DRAWINGS OR NOT, IN THE FIELD IN ADVANCE OF EXCAVATING, BY CONTACTING ALL UTILITIES AND OTHER AGENCIES, AND BY PROSPECTING. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, DEMOLITION, RECONSTRUCTION, AND RECONNECTION OF EXISTING FACILITIES AS REQUIRED TO COMPLETE THE WORK. IF REQUIRED AFTER FIELD VERIFICATION, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE ANY NECESSARY MODIFICATIONS TO PROPOSED NEW WORK. BEFORE CONSTRUCTION IS STARTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER OF EACH UTILITY AND DEFINE THE REQUIREMENTS AND METHODS TO ACCOMMODATE THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT, OR RELOCATION OF ANY UTILITIES AFFECTED BY THE PROPOSED NEW WORK.
6. SPECIAL CONSTRUCTION REQUIREMENTS, TEMPORARY PROTECTIVE FENCING OR BARRICADES, SHEETING, SHORING, EROSION PROTECTION, AND SURFACE RESTORATION AT CERTAIN LOCATIONS ARE INDICATED ON THE DRAWINGS TO BRING CONTRACTOR'S ATTENTION TO SENSITIVE AREAS.
7. THE LOCATION OF BORE HOLES INDICATED ON THE DRAWINGS IS APPROXIMATE. REFER TO THE GEOTECHNICAL REPORT FOR ACTUAL TEST HOLE LOCATIONS AND THE FINDINGS OF THE GEOTECHNICAL INVESTIGATIONS.
8. STRUCTURES SUCH AS CURBS AND GUTTERS, CONCRETE AND ASPHALT DRIVES AND WALKWAYS, PAVING BRICKS, FENCING, RETAINING WALLS, ETC., CROSSED BY THE PIPELINE(S) ARE NOT ALL INDICATED ON THE PLANS. CONTRACTOR SHALL RESTORE ANY EXISTING STRUCTURES THAT ARE DISTURBED, DAMAGED OR REMOVED BY CONSTRUCTION. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND INCLUDE ALL COSTS FOR THIS WORK IN BID.
9. HORIZONTAL STATIONING ALONG THE PIPELINE ALIGNMENT IS FOR LEVEL LINE MEASUREMENT AND FOR PAYMENT OF THE PIPELINES. CONTRACTOR SHALL PROVIDE THE ACTUAL PIPE LENGTH TO BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED.
10. CONFINE ALL CONSTRUCTION DISTURBANCES TO WITHIN PERMITTED LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS.
11. WHERE POSSIBLE ALL OPEN CUT ROADS AND STREETS SHALL HAVE A MINIMUM OF ONE LANE OPEN AT ALL TIMES FOR EMERGENCY ACCESS. PROVIDE TWO WAY TRAFFIC CONTROL AND/OR DETOUR AT ALL OPEN CUT ROAD WORK. CONTRACTOR SHALL OPEN CUT EXISTING GRAVEL AND ASPHALT SURFACED ROADS WHERE INDICATED ON THE DRAWINGS. THICKNESS AND TYPE OF REPLACEMENT ASPHALT, BASE COURSE, AND AGGREGATE ROAD BASE SHALL BE AS SPECIFIED AND SHALL, AT A MINIMUM, MATCH EXISTING SURFACING.
12. REMOVE AND REPLACE ALL EXISTING FENCING DISTURBED BY CONSTRUCTION ACTIVITIES ALONG THE ENTIRE PIPELINE ROUTE, WHETHER OR NOT IT IS IDENTIFIED ON THE DRAWINGS. INVENTORY THE VARIOUS TYPES AND QUANTITIES OF FENCING ALONG THE ALIGNMENT AND INCLUDE COSTS IN THE BID TO COMPLETELY REMOVE AND REPLACE THE FENCING AS REQUIRED TO CONSTRUCT THE PIPELINES. REPLACEMENT FENCING SHALL MATCH ORIGINAL FENCING AND SHALL BE CONSTRUCTED OF ENTIRELY NEW MATERIALS UNLESS OTHERWISE APPROVED IN ADVANCE BY THE OWNER.
13. CONSTRUCTION IS SUBJECT TO THE RULES, REGULATIONS AND STANDARDS OF THE UNITED STATES AIR FORCE ACADEMY AND COLORADO SPRINGS UTILITIES.
14. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING THE SEQUENCE OF CONSTRUCTION.
15. REFER TO SPECIFICATION SECTION 01 41 00 AND THE GENERAL CONDITIONS FOR REQUIREMENTS OF OWNER-OBTAINED PERMITS. CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS NECESSARY FOR CONSTRUCTION OF THE WORK.
16. PIPING SHALL BE LAID TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
17. CONTRACTOR REQUIRED TO APPLY FOR AND OBTAIN CONSTRUCTION DEWATERING PERMIT FROM CDPHE. DEWATERING PLAN MUST BE SUBMITTED TO COLORADO SPRINGS UTILITIES FOR REVIEW.
18. CONTRACTOR REQUIRED TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS FOR ALL WORK PERFORMED WITHIN STREET RIGHT-OF-WAY.
19. FLOODPLAIN LINEWORK SHOWN IS BASED ON KNOWN FLOODPLAIN DATA. BLACK FOREST CREEK IS A FEMA REGULATORY ZONE AE FLOODPLAIN WITH FLOODWAY. ALL OTHER MAJOR CREEK CROSSINGS TRAVERSE KNOWN FLOODPLAINS, BUT ARE NOT OFFICIALLY DESIGNATED.
20. THE CONTRACTOR SHALL OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER DISCHARGE PERMIT.
21. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "FUGITIVE DUST EMISSIONS ASSOCIATED WITH CONSTRUCTION ACTIVITIES". CDPHE, AIR POLLUTION CONTROL DIVISION , APCD-SSB1, ATT: LAND DEVELOPMENT PERMITTING SECTION, PHONE (303) 692-3150.
22. TRAFFIC CONTROL DEVICES SHALL MEET STANDARDS OF CDOT STANDARD SPECIFICATIONS.
23. AT LEAST FOUR WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW. THE PLAN SHALL BE PREPARED BY A CERTIFIED TRAFFIC CONTROL SUPERVISOR. NO WORK SHALL BEGIN UNTIL ALL TRAFFIC CONTROL DEVICES HAVE BEEN PLACED IN ACCORDANCE WITH THE APPROVED PLAN. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN THE TRAFFIC CONTROL DEVICES FOR THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR MAY BE REQUIRED TO PROVIDE TWO WEEKS ADVANCE NOTICE TO IMPACTED USERS INCLUDING EMERGENCY RESPONSE ENTITIES FOR TRAFFIC IMPACTS.
24. THE CONTRACTOR SHALL APPLY AND PAY FOR ALL RIGHT-OF-WAY PERMITS REQUIRED FOR THE WORK.
25. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS AND UTILITY OWNERS IN WRITING 72 HOURS PRIOR TO ANY CONSTRUCTION OR SHUT-OFF IN SERVICE. THE NOTICES MUST HAVE THE CONTRACTOR'S PHONE NUMBER AND NAME OF THE CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOURS CALLS, TO INCLUDE CITY DAY-TIME AND EMERGENCY CONTACT INFORMATION.
26. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF THE WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATION HEALTH AND SAFETY ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION".
27. THE CONTRACTOR SHALL BE REQUIRED TO FIELD VERIFY THE SUBSURFACE CONDITIONS OF THE SOIL ALONG THE ROUTE OF WORK AND SHALL PROVIDE DEWATERING EQUIPMENT NECESSARY TO PERFORM WORK ACCORDING TO THE CONSTRUCTION DOCUMENTS.
28. WASTE MATERIALS SHALL BE DISPOSED OF BY CONTRACTORS AT NO ADDITIONAL EXPENSE TO THE OWNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A DISPOSAL SITE FOR THE UNUSED MATERIAL, DEMOLITION MATERIAL, AND HAZARDOUS WASTE MATERIAL.
29. NO EMBEDMENT MATERIAL SHALL BE PLACED ABOVE THE SPRINGLINE OF THE PIPE UNTIL A UTILITIES REPRESENTATIVE HAS AUTHORIZED BACKFILLING. IT SHALL BE THE DUTY OF THE CONTRACTOR TO NOTIFY UTILITIES 48 HOURS IN ADVANCE OF PROPOSED BACKFILL OPERATIONS SO A UTILITIES REPRESENTATIVE MAY INSPECT PIPE AND THE EMBEDMENT PRIOR TO BACKFILLING.
30. ALL MATERIALS, WORKMANSHIP, CONSTRUCTION DETAILS, AND TESTING SHALL CONFORM TO THE WASTEWATER LINE EXTENSION AND SERVICE STANDARDS, 2023 EDITION BY COLORADO SPRINGS UTILITIES. IN THE EVENT A DETAIL SHOWN IN THESE BIDDING DOCUMENTS CONFLICTS WITH A UTILITIES STANDARD, THE BID DOCUMENT SHALL GOVERN.
31. ALL DISTURBANCES TO EXISTING ROADWAY, SIDEWALK, CURB OR GUTTER, INCLUDING SURFACE DAMAGE TO PAVEMENT OR STRIPING, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
32. COLORADO SPRINGS UTILITIES MAINTAINS RIGHT OF ACCESS ACROSS USAFA PROPERTY FOR INSTALLING AND MAINTAINING INFRASTRUCTURE PER AGREEMENT EXECUTED AND ACCEPTED BETWEEN ENTITIES ON MARCH 16, 2010. SEPARATE INTERCEPTOR EASEMENT INSTRUMENT RECORDED AT REC. NO. _____.
33. EL PASO COUNTY PARCELS 6305300001 AND 6218101001 ARE CONSIDERED CITY OF COLORADO SPRINGS PROPERTY UNDER COLORADO SPRINGS UTILITIES CONTROL. NO EASEMENTS ARE REQUIRED ON THESE PARCELS.

COLORADO SPRINGS UTILITIES WASTEWATER PLAN NOTES

THE CONTRACTOR SHALL NOTIFY COLORADO SPRINGS UTILITIES' INSPECTIONS OFFICE (NORTH: 668-4396 OR SOUTH: 668-4658) A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

GENERAL

1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET COLORADO SPRINGS UTILITIES' WASTEWATER LINE EXTENSION AND SERVICE STANDARDS (WASTEWATER STANDARDS).
2. THE CONTRACTOR SHALL OBTAIN LOCATES PRIOR TO ANY EXCAVATION.
3. COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF LOCATIONS OF EXISTING PIPELINES, MANHOLES AND SERVICE LINES. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE ENGINEER OF RECORD IMMEDIATELY.
4. NO TREES OR STRUCTURES ARE PERMITTED WITHIN FIFTEEN FEET (15') OF A WASTEWATER MAIN.
5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY FACILITIES AS A RESULT OF THEIR ACTIONS, THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF COLORADO SPRINGS UTILITIES.
6. ALL FIELD STAKING SHALL COMPLY WITH THE WASTEWATER STANDARDS.
7. THE CONTRACTOR SHALL ENSURE THAT WASTEWATER SERVICE TO ADJACENT PROPERTIES IS MAINTAINED DURING CONSTRUCTION.
8. ALL MANHOLES LOCATED WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO FINISH GRADE. IF MANHOLES ARE IN POOR CONDITION OR IF THE DISTANCE BETWEEN THE RING/COVER AND CONE OF THE MANHOLE EXCEEDS THE WASTEWATER STANDARDS, THE CONTRACTOR MAY BE REQUIRED TO REPLACE PART OR ALL OF THE EXISTING MANHOLES.
9. REUSE OR SALVAGE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE COLORADO SPRINGS UTILITIES INSPECTOR.
10. ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS MANUAL OR SPECIFICATION 31 23 33, WHICHEVER IS MORE STRINGENT.

WASTEWATER PROJECT - SPECIFIC NOTES

	APPLICABLE	NON-APPLICABLE	
1.	■	☐	CORROSION PROTECTION IS REQUIRED FOR ALL DUCTILE IRON PIPE. ALL PROTECTION SHALL COMPLY WITH THE WASTEWATER STANDARDS.
2.	■	☐	THIS PROJECT IS CONNECTING TO AN EXISTING MANHOLE. A MANHOLE ASSESSMENT HAS BEEN COMPLETED FOR THIS PROJECT. THE FOLLOWING CHECKED ITEMS ARE REQUIRED:
			■ THE CONTRACTOR SHALL PROVIDE A BYPASS PUMPING PLAN FOR APPROVAL BY COLORADO SPRINGS UTILITIES AND COMPLY WITH ALL THE REQUIREMENTS THEREIN.
			☐ REPAIR THE EXISTING MANHOLE (REFER TO PLAN AND PROFILE FOR REQUIREMENTS).
			■ REPLACE THE EXISTING MANHOLE (REFER TO PLAN AND PROFILE FOR REQUIREMENTS).
3.	■	☐	MANHOLES ARE BEING ABANDONED, THE CONTRACTOR SHALL:
			• PLUG THE "IN" AND "OUT" INVERTS WITH A WATERTIGHT MECHANICAL PLUG AND GROUT WITH APPROVED MATERIAL. • REMOVE AND DISPOSE OF THE CONE SECTION. • REMOVE THE RING AND COVER AND RETURN THEM TO COLORADO SPRINGS UTILITIES. • FILL THE MANHOLE WITH APPROVED MATERIAL.
4.	☐	■	WASTEWATER MAINS EXISTS UNDERNEATH A PROPOSED STRUCTURE, CONTRACTOR SHALL:
			☐ REMOVE IT
			☐ GROUT IT FULL
5.	☐	■	WASTEWATER MAIN TO BE ABANDONED EXISTS WITHIN RIGHT-OF-WAY, THE CONTRACTOR SHALL:
			☐ REMOVE IT
			☐ GROUT IT FULL
6.	■	☐	PIPELINES LESS THAN 1.04% GRADE ARE PROPOSED. THE CONTRACTOR SHALL COMPLY WITH THE ADDITIONAL REQUIREMENTS AS SPECIFIED WITHIN THE WASTEWATER STANDARDS OR THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
7.	☐	■	THIS PROJECT IS UTILIZING EXISTING WASTEWATER STUB(S) IN AN "AS-IS" CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE STUB(S), CONNECTION, AND SUBSEQUENT EXTENSION MEET ALL CURRENT WASTEWATER STANDARDS AND DO NOT HAVE ANY DEFECTS.
8.	☐	■	COLORADO SPRINGS UTILITIES DOES NOT GUARANTEE THE ACCURACY OF THE DEPTH, LOCATION, OR CONDITION OF ANY EXISTING STUB(S) SHOWN ON ANY "AS CONSTRUCTED" DRAWINGS. FURTHER, THE EXISTING STUB SHALL BE INCLUDED IN THE TWO-YEAR WARRANTY PERIOD FOR THIS PROJECT.
9.	☐	■	A WASTEWATER STUB OR STUBS ARE PROPOSED WITH THIS PROJECT. COLORADO SPRINGS UTILITIES WILL INSPECT THE CONSTRUCTION BUT DOES NOT GUARANTEE THAT THE DESIGN OR INSTALLATION OF THE PROPOSED STUB(S) WILL MEET FUTURE DEVELOPMENT REQUIREMENTS. FURTHER, THE PROPOSED STUB(S) WILL NOT BE INCLUDED IN THE TWO-YEAR WARRANTY PERIOD FOR THIS PROJECT AND WILL NOT BE ACCEPTED OR OWNED BY COLORADO SPRINGS UTILITIES.
10.	☐	■	UNDERDRAIN REVIEW BY THE CITY ENGINEERING DIVISION IS FOR SYSTEM SEPARATION AND DISCHARGE TO OPEN DRAINAGE OR STORM SEWER. THE PUBLIC WORKS DEPARTMENT AND COLORADO SPRINGS UTILITIES ARE NOT RESPONSIBLE FOR UNDERDRAIN SYSTEM MAINTENANCE

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
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PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY
NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

GENERAL NOTES

0 1" 2"

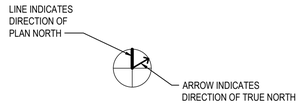
FILENAME 00G002.DWG
SCALE NO SCALE

SHEET 00G002

MATERIALS IN PLAN/SECTION

- ASPHALT (PLAN OR SMALL-SCALE SECTION)
- ASPHALT (LARGE-SCALE SECTION)
- CONCRETE (PLAN AND/OR SECTION)
- DEMOLITION (PLAN AND/OR SECTION)
- EARTH (SECTION)
- GRANULAR FILL (SECTION)
- METAL (SECTION)
- PRECAST CONCRETE (PLAN AND/OR SECTION)
- RIPRAP (PLAN AND/OR SECTION)
- SAND (SECTION)
- SOD (SECTION)
- WETLAND
- USAFA AIRFIELD - 1000' CLEAR ZONE
- USAFA AIRFIELD - 2000' CLEAR ZONE
- USAFA AIRFIELD - APZ 1
- USAFA AIRFIELD - APZ 2
- PREBLE'S MOUSE HABITAT

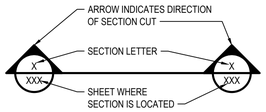
GENERAL SYMBOLOGY



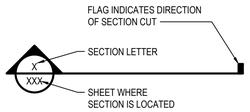
NORTH ARROW

PLAN
1" = 5'

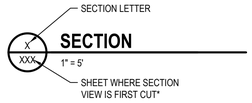
PLAN TITLE



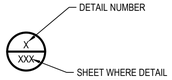
FULL BUILDING SECTION CUT MARKER



SECTION CUT MARKER



SECTION TITLE



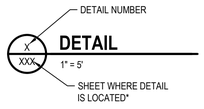
DETAIL MARKER

FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.

XXXXXX

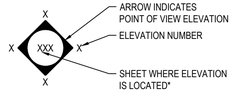
DETAIL MARKER

FOR REFERENCING DETAILS BOUND IN SPECIFICATIONS OR SEPARATE VOLUME.

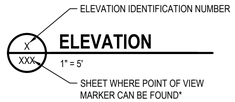


DETAIL TITLE

SINGLE ELEVATION OR PHOTO MARKER



MULTIPLE ELEVATION OR PHOTO MARKER



ELEVATION TITLE

ARCHITECTURAL

- # SHEET KEYNOTE
- ## REVISION DELTA

* EXCEPTIONS WHERE THE SHEET NUMBER IS REPLACED BY A DASH (-).
1) FOR COMMON DETAILS, SECTIONS, ELEVATIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS.
2) SECTIONS, ELEVATIONS OR DETAILS THAT ARE LOCATED ON THE SAME SHEET THEY ARE CUT OR CALLED OUT ON.

IDENTIFICATION SYMBOLOGY

SHEET NAMING CONVENTION

AREA DESIGNATION

00	GENERAL
01	NORTHERN MONUMENT CREEK INTERCEPTOR
02	INVERTED SIPHON
03	MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR
04	SITE ACCESS
05	SWMP/GEC

DISCIPLINE DESIGNATOR & DISCIPLINE ORDER

G	GENERAL
D	DETAILS

DRAWING TYPE DESIGNATOR

0	GENERAL (SYMBOLS, LEGENDS)
1	PLANS
2	ELEVATIONS/PROFILES
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	SCHEDULES AND DIAGRAMS
7	OTHER VIEWS

EXAMPLE

CIVIL GRADING PLAN, SHEET 01

0	1					AREA 01
AREA DESIGNATION						
		C				CIVIL DISCIPLINE
DISCIPLINE DESIGNATOR						
			1			PLAN SHEET TYPE
SHEET TYPE DESIGNATOR						
				0	1	SHEET NUMBER 01
SHEET NUMBER						
0	1	C	1	0	1	
SAMPLE SHEET NUMBER						

GENERAL NOTES

1. THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
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PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

GENERAL
GENERAL LEGEND

0 1" 2"

FILENAME 00G003.DWG
SCALE NO SCALE

SHEET 00G003

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CIVIL MAPPING SYMBOLOGY

- SANITARY MANHOLE
- INTERSTATE HIGHWAY SYMBOL
- EXST DRAINAGE FLOW ARROW
- UTILITY POTHOLE
- EXST UTILITY POLE
- EXST DOWNGUY
- EXST STREET LIGHT
- EXST TEST HOLE/MONITORING WELL
- EXST SECTION CORNER AS DESCRIBED
- EXST RANGE POINT AS DESCRIBED
- EXST MONUMENT AS DESCRIBED
- EXST MONUMENT SET AS DESCRIBED
- EXST CATHODIC TEST STATION
- SPOT ELEVATION/POINT #
- SURVEY BENCHMARK
- SURVEY CONTROL POINT
- HORIZONTAL CONTROL POINT
- VERTICAL CONTROL POINT
- EXST GAS VALVE
- EXST WATER VALVE
- EXST WATER METER
- EXST GAS METER
- EXST SEWER MANHOLE
- EXST VENT PIPE
- EXST STORM MANHOLE
- EXST WATER MANHOLE
- EXST FIRE HYDRANT
- EXST COMMUNICATION MANHOLE
- EXST ELECTRIC MANHOLE
- EXST SIGN

NOTE

ALL SHRUBS AND TREES WITHIN PERMANENT EASEMENT ALONG OPEN CUT SEGMENTS OF PIPELINE WILL BE DEMOLISHED. SHRUBS AND TREES WITHIN SURFACE LIMITS OF DISTURBANCE SHALL BE SALVAGED IF POSSIBLE. ALL OTHERS SHALL BE PROTECTED.

UTILITY/CIVIL LINE SYMBOLOGY

- FLIGHT ZONE EXTENTS
- PIPELINE
- CASING/BORING PIPE
- EXST RAILROAD
- CENTERLINE
- EXST PROPERTY LINE
- PROPERTY LINE - BOLD
- EXST EASEMENT
- NEW EASEMENT - PERMANENT
- LIMITS OF CONSTRUCTION
- EXST ROW
- SECTION LINE
- FLOODPLAIN LIMIT (100 YEAR)
- FEMA FLOODWAY
- HIGHWAY GUARDRAIL
- NEW CONTOUR (MINOR)
- NEW CONTOUR (MAJOR)
- EXST CONTOUR (MINOR)
- EXST CONTOUR W/ELEVATION (MAJOR)
- EXST VEGETATION/BRUSH LINE
- ABANDONMENT
- EXST CREEK CENTERLINE
- EXST WIRE FENCE
- EXST SPLIT RAIL FENCE
- EXST CHAIN LINK FENCE
- EXST METAL/WOOD FENCE
- ACCESS ROUTE
- MATCHLINE

GEC Checklist Item L. If "limits of disturbance" and "construction boundary" are the same, change to "limits of construction/disturbance" or otherwise show as separate line types for each on the legend and figure.

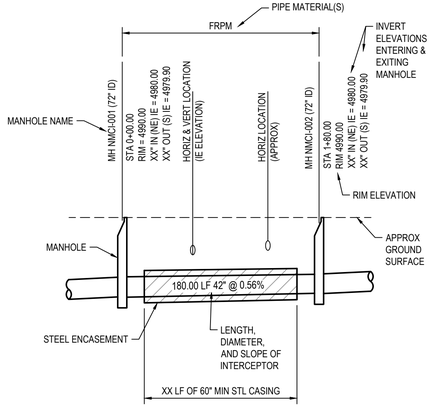
TUNNEL INSTRUMENTATION LEGEND

- U-10 — UTILITY MONITORING POINT
- M-10 — MONITORING POINT ARRAY

BORING LOG SYMBOL LEGEND

GW	WELL-GRADED GRAVEL; WELL-GRADED WITH SAND
GP	POORLY GRADED GRAVEL; POORLY GRADED GRAVEL WITH SAND
GM	SILTY GRAVEL; GRAVEL WITH SAND
GC	CLAYEY GRAVEL; CLAYEY GRAVEL WITH SAND
SW	WELL-GRADED SAND; WELL GRADED SAND WITH GRAVEL
SP	POORLY GRADED SAND; POORLY GRADED SAND WITH GRAVEL
SM	SILTY SAND; SILTY SAND WITH GRAVEL
SC	CLAYEY SAND; CLAYEY SAND WITH GRAVEL
ML	SILT; SILT WITH SAND OR GRAVEL; SANDY OR GRAVELLY SILT
CL	LEAN CLAY; LEAN CLAY WITH SAND OR GRAVEL; SANDY OR GRAVELLY, LEAN CLAY
OL	ORGANIC SILT OR CLAY; ORGANIC SILT OR CLAY WITH SAND OR GRAVEL; SANDY OR GRAVELLY, ORGANIC SILT OR CLAY
MH	ELASTIC SILT; ELASTIC SILT WITH SAND OR GRAVEL; SANDY OR GRAVELLY, ELASTIC SILT
CH	FAT CLAY; FAT CLAY WITH SAND OR GRAVEL; SANDY OR GRAVELLY, FAT CLAY
OH	ORGANIC SILT OR CLAY; ORGANIC SILT OR CLAY WITH SAND OR GRAVEL; SANDY GRAVELLY, ORGANIC SILT OR CLAY
PT	PEAT OR OTHER HIGHLY ORGANIC SOILS (SEE ASTM D4427)
	SANDSTONE
	CLAYSTONE
	SILTSTONE
	ASPHALT

PROFILE LEGEND



SUE UTILITIES

- FUTR SS — FUTURE SANITARY SEWER UTILITY
- FUTR D — FUTURE STORM UTILITY
- FUTR W — FUTURE WATER UTILITY
- WAT–X* — EXST WATER, SUE LEVEL X
- DR–X* — EXST DRAIN LINE, SUE LEVEL X
- STM–X* — EXST STORM LINE, SUE LEVEL X
- FIB–X* — EXST FIBER OPTIC, SUE LEVEL X
- TEL–X* — EXST TELEPHONE, SUE LEVEL X
- ELE–X* — EXST ELECTRIC, SUE LEVEL X
- GAS–X* — EXST NATURAL GAS, SUE LEVEL X
- SS–X* — EXST SANITARY SEWER
- OHU — EXST UTILITY OVERHEAD

SUE-SUBSURFACE UTILITY ENGINEERING LEGEND NOTE:

* SUE QUALITY LEVEL LOCATES OF EXISTING UTILITIES ARE DEPICTED WITH A SUFFIX IN PLACE OF X" IN THE LEGEND ABOVE ON EXISTING UTILITY LINETYPES FROM B TO D DEPICTING THE ACCURACY, OR "QUALITY LEVEL" OF THE EXISTING UTILITY SHOWN ON THE DRAWINGS. (EXAMPLE WAT-B OR STM-C)

- QUALITY LEVEL A (PRECISE HORIZONTAL & VERTICAL LOCATION OF UTILITIES OBTAINED BY THE EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES AT A SPECIFIC POINT).
- QUALITY LEVEL B (INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. LOCATED UTILITIES ARE SURVEYED AND TIED TO PROJECT CONTROL).
- QUALITY LEVEL C (INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION AND ANY AVAILABLE QUALITY LEVEL B AND QUALITY LEVEL A INFORMATION).
- QUALITY LEVEL D (INFORMATION DERIVED FROM EXISTING RECORDS RESEARCH/DATA COLLECTION).

SUBSURFACE UTILITY INVESTIGATION NOTES

1. ALL UTILITIES WERE LOCATED TO "QUALITY LEVEL B" WHERE POSSIBLE. WHERE UNABLE TO LOCATE UTILITIES TO "QUALITY LEVEL B" DUE TO THE UNTRACEABLE UTILITIES OR UTILITIES NOT LOCATED BY THE UTILITY OWNER, UTILITIES WERE LOCATED TO "QUALITY LEVEL C". WHERE UNABLE TO LOCATE UTILITIES TO "QUALITY LEVEL C" DUE TO LACK OF SURFACE FEATURES, THE UTILITY WAS SHOWN ON THE DRAWINGS TO "QUALITY LEVEL D" PER THE AVAILABLE RECORD DRAWINGS. THE UTILITY LOCATE INFORMATION SHOWN ON THE DRAWINGS SHALL NOT ALLEVIATE THE CONTRACTOR FROM VERIFYING ALL UTILITY LOCATIONS AND DEPTHS SHOWN IN THE CONTRACT DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION. THE DRAWINGS WITHOUT VERIFICATION SHALL BE AT THE SOLE DISCRETION OF THE CONTRACTOR.
2. ALL EXISTING SANITARY SEWER AND STORM SEWER ARE DEPICTED AT "QUALITY LEVEL C" (ASCE 38-02) UNLESS INDICATED OTHERWISE.
3. THE LOCATIONS OF "QUALITY LEVEL A" (ASCE 38-02) ON EXISTING UTILITIES (UTILITY POTHOLES ARE IDENTIFIED ON THE PLAN AND PROFILE DRAWINGS. THE "QUALITY LEVEL A" DATA IS SUMMARIZED IN THE POTHOLE TABLE INCLUDED IN THE PLANS.

GENERAL NOTES

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2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

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D	03/2026	100% DESIGN REVIEW
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PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

GENERAL CIVIL LEGEND

0 1" 2"

FILENAME 00G004.DWG

SCALE NO SCALE

SHEET 00G004

A/C	AIR CONDITIONING
A/E	ARCHITECT/ENGINEER
A	AMPERE
AB	ANCHOR BOLT
ABAN	ABANDON
ABC	AGGREGATE BASE COURSE
ABT	ABOUT
AC	ACRES
ACK	ACKNOWLEDGE
ACP	ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT
ACST	ACOUSTIC
AD	ADDENDUM, AREA DRAIN
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE, ADJACENT
AF	AMP FRAME, AMP FUSE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGGR	AGGREGATE
AI	AREA INLET, ANALOG INPUT
AIC	AMPS INTERRUPTING CAPACITY
ALIGN	ALIGNMENT
ALT	ALTERNATE, ALTITUDE
ALUM	ALUMINUM
AM	ACOUSTICAL MATERIAL
AMB	AMBIENT
ANC	ANCHOR
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APRX	APPROXIMATE
APVD	APPROVED
APZ	ACCIDENT POTENTIAL ZONE
ARCH	ARCHITECTURAL
ASSY	ASSEMBLY
AT	ACOUSTICAL TILE, AMP TRIP
ATC	ACOUSTICAL TILE CEILING
ATM	ATMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
AWT	ACOUSTICAL WALL TILE
B TO B	BACK TO BACK
BAL	BALANCE
BBD	BULLETIN BOARD
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE
BD	BOARD
BE	BOTH ENDS, BELL END
BF	BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET
BITUM	BITUMINOUS
BK	BOOK
BKG	BACKING
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BENCHMARK, BEAM
BOC	BACK OF CURB
BOD	BOTTOM OF DUCT
BOG	BOTTOM OF GRILLE
BOL	BOTTOM OF LOUVER, BOLLARD
BOP	BOTTOM OF PIPE
BOR	BOTTOM OF REGISTER
BOT	BOTTOM
BOU	BOTTOM OF UNIT
BP	BASE PLATE
BRG	BEARING
BRGP	BEARING PLATE
BRKT	BRACKET
BS	BOTH SIDES
BTU	BRITISH THERMAL UNIT
BTW	BETWEEN
BTWLD	BUTT WELD
BU	BELL UP, BUILT-UP
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
BYP	BYPASS
C TO C	CENTER TO CENTER
C&G	CURB AND GUTTER
C	CHANNEL SHAPE, CENTIGRADE, CONDUIT
CAB	CABINET
CAP	CAPACITY
CAT	CATALOG, CATEGORY
CAV	CAVITY
CB	CATCH BASIN
CCB	CONCRETE BLOCK
CCW	COUNTER CLOCKWISE
CD	CHECK DAM
CDF	CONTROLLED-DENSITY FILL
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CE	CONCRETE EDGE
CER	CERAMIC
CF	CUBIC FEET (FOOT), CONSTRUCTION FENCE
CFL	COUNTER FLASHING
CHBD	CHALKBOARD
CHD	CHORD
CHFR	CHAMFER
CHH	COMMUNICATION HANDHOLE
CI	CURB INLET
CIP	CAST-IN-PLACE, CAST IRON PIPE
CIPB	CONCRETE INTERLOCKING PAVER BALLAST
CIRC	CIRCULATION, CIRCULAR
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CLKG	CAULKING
CLR	CLEARANCE
CM	CONTROL MEASURE
CMH	COMMUNICATION MANHOLE
CMP	CORRUGATED METAL PIPE
CMPS	CORRUGATED METAL PIPE (SMOOTH FLOW)
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, COLORADO
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMM	COMMUNICATION
COMP	COMPOSITION, COMPRESSIBLE, COMPOSITE
CON	CONCENTRIC
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COOR	COORDINATE
CORR	CORROSIVE, CORRUGATED
CP	CONTROL POINT
CPLG	COUPLING
CRL	CORROSION-RESISTANT LINING
CSC	COMPRESSION SLEEVE COUPLING
CSK	COUNTERSINK
CSS	CLINIC SERVICE SINK
CSU	COLORADO SPRINGS UTILITIES
CT	CERAMIC TILE
CTJ	CONTRACTION JOINT
CTR	CENTER
CTS	CASING TEST STATION
CTRL	CONTROL
CVT	CULVERT
CU	COPPER, CUBIC
CW	CLOCKWISE
CY	CUBIC YARD
d	PENNY (NAIL MEASURE)
D	DEEP, DIFFUSER, DRAIN
DB	DUCT BANK, DECIBEL, DRY BULB
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEG C	DEGREE CENTIGRADE
DEG F	DEGREE FAHRENHEIT
DEMO	DEMOLITION
DEP	DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DI	DROP INLET, DUCTILE IRON, DIGITAL INPUT
DIA	DIAMETER
DIAG	DIAGONAL, DIAGRAM
DIFF	DIFFERENTIAL, DIFFERENCE
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIPS	DUCTILE IRON PIPE SIZE
DISCH	DISCHARGE
DIST	DISTANCE, DISTRIBUTION
DIV	DIVISION
DL	DEAD LOAD
DMJ	DOUBLE MECHANICAL JOINT
DMPF	DAMP PROOFING
DN	DOWN
DNF	DID NOT FIND
DNPH	DID NOT POTHOLE
DO	DISSOLVED OXYGEN, DIGITAL OUTPUT, DITTO
DP	DEPTH
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DR	DRIVE
DS	DOWN SPOUT
DT	DOUBLE TEE, DRIP TRAP ASSEMBLY
DUP	DUPLICATE
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
E	EAST, EASTING
EA	EACH, EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
ECB	EROSION CONTROL BLANKET
ECC	ECCENTRIC
ED	EQUIPMENT DRAIN
EDB	ELECTRICAL DUCT BANK
EE	EACH END
EF	EACH FACE
EFF	EFFLUENT, EFFICIENCY
EHH	ELECTRICAL HANDHOLE
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
EMBD	EMBEDDED
EMER	EMERGENCY
EMH	ELECTRICAL MANHOLE
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER AND EYE WASH
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWEF	EACH WAY, EACH FACE
EWTB	EACH WAY, TOP AND BOTTOM
EXC	EXCAVATION
EXH	EXHAUST
EXP	EXPANSION, EXPOSED
EXST	EXISTING
EXT	EXTERIOR, EXTERNAL, EXTENSION
F TO F	FACE TO FACE
F&B	FACE AND BYPASS
FAB	FABRICATE
FB	FLOOR BEAM
FBD	FIBERBOARD
FBG	FIBERGLASS
FBM	BOARD FOOT MEASURE
FBO	FURNISHED BY OWNER
FC	FLUSHING CONNECTION
FCA	FLANGED COUPLING ADAPTER
FD	FLOOR DRAIN
FDC	FLEXIBLE DUCT CONNECTION
FDR	FEEDER
FDTN	FOUNDATION
FE	FLANGED END
FEC	FIRE EXTINGUISHER CABINET
FES	FLARED END SECTION
FEXT	FIRE EXTINGUISHER
FF	FAR FACE, FACTORY FINISH, FLAT FACE
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FJT	FLUSH JOINT
FL	FLOW, FLOW LINE
FLEX	FLEXIBLE
FLG	FLANGE
FLOR	FLUORESCENT
FLR	FLOOR
FLS	FLASHING, FLUSH
FN	FENCE
FO	FIBER OPTIC
FOB	FLAT ON BOTTOM
FOC	FACE OF CONCRETE, FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOT	FLAT ON TOP
FPT	FEMALE PIPE THREAD
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRPM	FIBERGLASS REINFORCED POLYMER MORTAR
FRTM	FIRE RETARDANT TREATED MATERIAL
FS	FLOOR SINK, FAR SIDE
FT	FEET, FOOT
FTG	FOOTING, FITTING
FUR	FURRED, FURRING
FURN	FURNITURE, FURNISH
FUT	FUTURE
FV	FACE VELOCITY
FW	FIELD WELD, FIRE WALL
FWD	FORWARD
FWE	FURNISHED WITH EQUIPMENT
FXTR	FIXTURE
G	GRILLE, GROUND
GA	GAGE (METAL THICKNESS)
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR, GRADE BREAK
GC	GROOVED COUPLING
GD	GUARD
GEN	GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFMU	GROUND FACE MASONRY UNIT
GG	GUTTER GRADE
GJ	GROOVED JOINT
GL	GLASS
GLB	GLASS BLOCK, GLULAM BEAM
GND	GROUND
GP	GUY POLE
GR	GRADE
GRTG	GRATING
GSB	GYPSUM SHEATHING BOARD
GT	GREASE TRAP
GVL	GRAVEL
GW	GUY WIRE
GWB	GYPSUM WALLBOARD
GYP	GYPSUM HARDBOARD
H	HORIZONTAL
HB	HOSE BIBB
HBD	HARDBOARD
HC	HANDICAPPED, HOLLOW CORE, HORIZONTAL, CURVE, HORIZONTAL CENTERLINE
HD	HEAD, HOT DIP
HDD	HORIZONTAL DIRECTIONAL DRILL
HDR	HEADER
HDW	HARDWARE
HEX	HEXAGONAL
HGR	HANGER
HH	HANDHOLE
HID	HIGH-INTENSITY DISCHARGE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT, HORSEPOWER
HPC	HORIZONTAL POINT OF CURVATURE
HPS	HIGH-PRESSURE SODIUM
HPT	HORIZONTAL POINT OF TANGENCY
HR	HOSE REEL, HOUR
HS	HEADED STUD, HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SHAPE
HT	HEIGHT
HTG	HEATING
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWD	HARDWOOD
HWL	HIGH WATER LEVEL
HYD	HYDRAULIC
HZ	HERTZ, CYCLES PER SECOND
ID	INSIDE DIAMETER, INTERIOR DIMENSION
IE	INVERT ELEVATION, FOR EXAMPLE
IF	INSIDE FACE
IH	INTAKE HOOD
IMP	IMPACT
IN	INCH, INLET
INC	INCLUDE, INCORPORATED
INF	INFLUENT
INSTR	INSTRUMENTATION
INSUL	INSULATION
INT	INTERIOR, INTERSECTION
INTR	INTERMEDIATE, INTERIOR
INV	INVERT
IP	INLET PROTECTION
IPS	IRON PIPE SIZE
IPT	INTERNAL PIPE THREAD
IR	INSIDE RADIUS, IRON ROD
IRR	IRRIGATION
ISO	ISOMETRIC
JB	JUNCTION BOX
JCT	JUNCTION
JF	JOINT FILLER
JST	JOIST
JT	JOINT
K	KIP
KB	KNEE BRACE
KCMIL	THOUSAND CIRCULAR MILS
KD	KNOCK DOWN
KO	KNOCK OUT
KSI	KIPS PER SQUARE INCH
KW	KILOWATT
L	LENGTH
LAD	LADDER
LAM	LAMINATE
LATL	LATERAL
LB	POUND
LCTB	LIQUID CHALK AND TACK BOARD
LDG	LANDING
LDR	LEADER
LE	LIFTING EYE
LF	LINEAR FOOT
LG	LONG
LH	LEFT HAND
LIN	LINEAR
LIQ	LIQUID
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMLU	LIQUID MARKER LECTURE UNIT
LNG	LONGITUDINAL
LOC	LOCATION
LP	LOW POINT
LPS	LOW-PRESSURE SODIUM
LR	LONG RADIUS
LT	LEFT
LTD	LIMITED
LTG	LIGHTING
LTL	LINTEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
LVL	LAMINATED VENEER LUMBER
LVR	LOUVER
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
LWL	LOW WATER LEVEL
MA	MIXED AIR
MACH	MACHINED
MAINT	MAINTENANCE
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MC	MECHANICAL CONTRACTOR, MECHANICAL COUPLING, MOMENT CONNECTION
MCB	METAL CORNER BEAD
MCJ	MASONRY CONTROL JOINT
MDMJ	MODIFIED DOUBLE MECHANICAL JOINT
MECH	MECHANICAL
MED	MEDIUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MASONRY LINTEL
MLO	MAIN LUGS ONLY
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULAR, MODIFY
MON	MONUMENT
MPT	MALE PIPE THREAD
MRGWB	MOISTURE-RESISTANT GYPSUM WALLBOARD
MS	MOP SINK
MSL	MEAN SEA LEVEL
MT	MOUNT
MTLSI	MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR
MU	MASONRY UNIT
MULL	MULLION
MV	MEDIUM VOLTAGE
MW	MONITORING WELL
N	NORTHING
NA	NOT APPLICABLE
NAT	NATURAL, NATIONAL
NC	NORMALLY CLOSED
NE	NORTHEAST
NEG	NEGATIVE
NF	NEAR FACE, NON-FUSED
NGS	NATIONAL GEODETIC SURVEY
NIC	NOT IN CONTRACT
NMCI	NORTH MONUMENT CREEK INTERCEPTOR
NO	NORMALLY OPEN, NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NPT	NATIONAL PIPE THREAD
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORTHWEST
NWL	NORMAL WATER LEVEL
O TO O	OUT TO OUT
OA	OUTSIDE AIR, OVERALL
OC	ON CENTER
OCPD	OVER CURRENT PROTECTION DEVICE
OD	OUTSIDE DIAMETER
OED	OPEN END DUCT
OF	OUTSIDE FACE, OFFICE FURNISHING
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OG	ORIGINAL GROUND
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
OR	OUTSIDE RADIUS
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OUT	OUTLET
OVFL	OVERFLOW
OVHG	OVERHANG
OZ	OUNCE
P	POINT
PA	PUBLIC ADDRESS, PRELIMINARY ACCEPTANCE
PAR	PARALLEL, PARAPET
PB	PANIC BAR, PULL BOX
PBD	PARTICLE BOARD
PC	POINT OF CURVE, PIECE, PRECAST
PCC	POINT OF COMPOUND CURVATURE
PCF	POUNDS PER CUBIC FOOT
PCT	PERCENT
PE	PERMANENT EASEMENT, POLYETHYLENE
PED	PEDESTAL
PEN	PENETRATION
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PF	POWER FACTOR
PFMU	PREFACED MASONRY UNIT
PG	PAGE
PH	PHASE, POTHOLE
PI	POINT OF INTERSECTION
PID	PERMANENT IDENTIFIER
PKG	PACKAGE
PKWY	PARKWAY
PL	PLATE, PROPERTY LINE, PRECAST LINTEL
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PMJM	PREBLE'S MEADOW JUMPING MOUSE
PNEU	PNEUMATIC
POL	POLISH
POLY	POLYETHYLENE
POS	POSITIVE, POSITION
PP	POLYPROPYLENE, POWER POLE
PRC	POINT OF REVERSE CURVATURE
PREF	PREFINISHED
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PREP	PREPARE
PRES	PRESSURE
PRI	PRIMARY
PROP	PROPERTY, PROPOSED
PROT	PROTECTION
PS	PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PST	PRESTRESSED
PSM	PRECISION SURVEY & MAPPING
PT	POINT, POINT OF TANGENCY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE
PVC-RGS	PVC COATED RGS
PVMT	PAVEMENT
PWD	PLYWOOD
PWJ	PLYWOOD WEB JOIST
PZ	PIEZOMETER
Q	RATE OF FLOW
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
QUAL	QUALITY
R&R	REMOVE AND REPLACE
R&S	REMOVE AND SALVAGE
R	RADIUS, REGISTER, RISER
RA	RETURN AIR
RB	RESILIENT BASE, ROCK BERM
RCPT	RECEPTACLE
RD	ROOF DRAIN, ROAD
REC	RECEPTION
RECD	RECEIVED
RECT	RECTANGULAR
RED	REDUCER
REF	REFERENCE
REINF	REINFORCING
REM	REMOVE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETAINING, RETURN
REV	REVISION, REVERSE
RF	RESILIENT FLOORING
RFG	ROOFING
RFL	REFLECTED, REFLECTOR
RGH	ROUGH
RGS	RIGID GALVANIZED STEEL
RH	RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY
RL	REQUIRED LAP
RLFA	RELIEF AIR
RND	ROUND
RNG	RUNNING
RO	ROUGH OPENING
ROW	RIGHT-OF-WAY
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RS	ROCK SOCK
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
RVT	RESILIENT VINYL TILE
RY	READY
S	SOUTH
SA	SUPPLY AIR
SAMU	SOUND-ABSORBING MASONRY UNIT
SAN	SANITARY
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SCHEM	SCHEMATIC
SCN	SCREEN
SDR	STANDARD DIMENSION RATIO
SE	SOUTHEAST
SEC	SECONDARY, SECONDS
SECT	SECTION
SEP	SEPARATE
SF	SQUARE FOOT, SILT FENCE
SG	SHEET GLASS, SEALANT GROOVE
SH	SHOWER
SHT	SHEET
SHTG	SHEATHING
SIL	SILENCE
SIM	SIMILAR
SJ	SLAB JOINT
SL	SLOPE, STEEL LINTEL
SLTD	SLOTTED
SLV	SLEEVE
SM	SEED MIXTURE
SMLS	SEAMLESS
SOG	SLAB ON GRADE
SP	SOUNDPROOF, STANDPIPE
SPA	SPACING
SPEC	SPECIFICATION
SPLY	SUPPLY
SPST	SINGLE POLE SINGLE THROW
SPT	SET POINT
SQ	SQUARE
SR	SHORT RADIUS
SS	SANITARY SEWER, SIPHON STRUCTURE
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STR	STRUCTURE
SUB	SUBSTITUTE
SUC	SUCTION
SUSP	SUSPENDED
SW	SOUTHWEST
SY	SQUARE YARD
SYM	SYMBOL
SYMM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T	THICKNESS, TELEPHONE
TA	TOILET ACCESSORY, TEMPERED AIR
TAN	TANGENT
TBM	TEMPORARY BENCHMARK
TCE	TEMPORARY CONSTRUCTION EASEMENT
TEF	TROWELED EPOXY FLOORING
TEMP	TEMPORARY, TEMPERATURE
THD	THREAD
THK	THICK
THRESH	THRESHOLD
TKBD	TACK BOARD
TOB	TOP OF BOLT, TOP OF BANK, TOP OF BEAM, TOP OF BERM
TOC	TOP OF CURB, TOP OF CONCRETE
TOD	TOP OF DUCT
TOF	TOP OF FOOTING
TOG	TOP OF GRATING
TOL	TOLERANCE, TOP OF LEDGER
TOM	TOP OF MASONRY
TOP	TOP OF PIPE
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB, TOP OF STEEL, TOE OF SLOPE
TOW	TOP OF WALL
TP	TOILET PARTITION, TELEPHONE POLE, TOE PLATE, TRAP PRIMER
TPD	TOILET PAPER DISPENSER
TPG	TOPPING, THROUGH PLATE GIRDER
TR	TRANSOM
TRANS	TRANSITION
TRD	TRENCH DRAIN
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
ULT	ULTIMATE
UNFN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
USAFA	UNITED STATES AIR FORCE ACADEMY
UTIL	UTILITY
V	VENT, VELOCITY, VOLT
VA	VOLT AMPERE
VAC	VACUUM
VAR	VARNISH, VARIABLE, VOLT AMPERES REACTIVE
VB	VAPOR BARRIER, VINYL BASE, VALVE BOX
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE, VERTICAL CENTERLINE
VEL	VELOCITY
VENT	VENTILATION
VERT	VERTICAL
VERTS	VERTICAL REINFORCING
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VIN	VINYL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
VS	VERSUS, VAPOR SEAL
VTC	VEHICLE TRACKING CONTROL
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
W	WATT, WEST, WIDE, WINDOW, WIRE, WIDE FLANGE BEAM, WATER
WB	WOOD BASE
WC	WATER CLOSET, WATER COLUMN
WD	WOOD, WIDTH
WDO	WATER DISTRIBUTION OPERATIONS
WF	WIDE FLANGE, WASH FOUNTAIN
WG	WIRE GLASS, WATER GAGE
WH	WALL HYDRANT, WEEP HOLE
WI	WROUGHT IRON
WL	WATER LEVEL
WLD	WELDED
WM	WIRE MESH
WP	WEATHERPROOF
WS	WATERSTOP, WATER SURFACE
WSCT	WAINSCOT
WT	WEIGHT, WATER TIGHT
WTHP	WATERPROOF, WORKING POINT
WWF	WELDED WIRE FABRIC
XP	EXPLOSION-PROOF
XS	EXTRA STRONG
XSECT	CROSS SECTION
XXS	DOUBLE EXTRA STRONG
YH	YARD HYDRANT
YS	YIELD STRENGTH

GENERAL NOTES

1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
2. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
3. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING AND "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.
4. SEE INSTRUMENTATION LEGEND SHEET FOR PROJECT-SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS, AND PIPING SYSTEM ABBREVIATIONS.

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

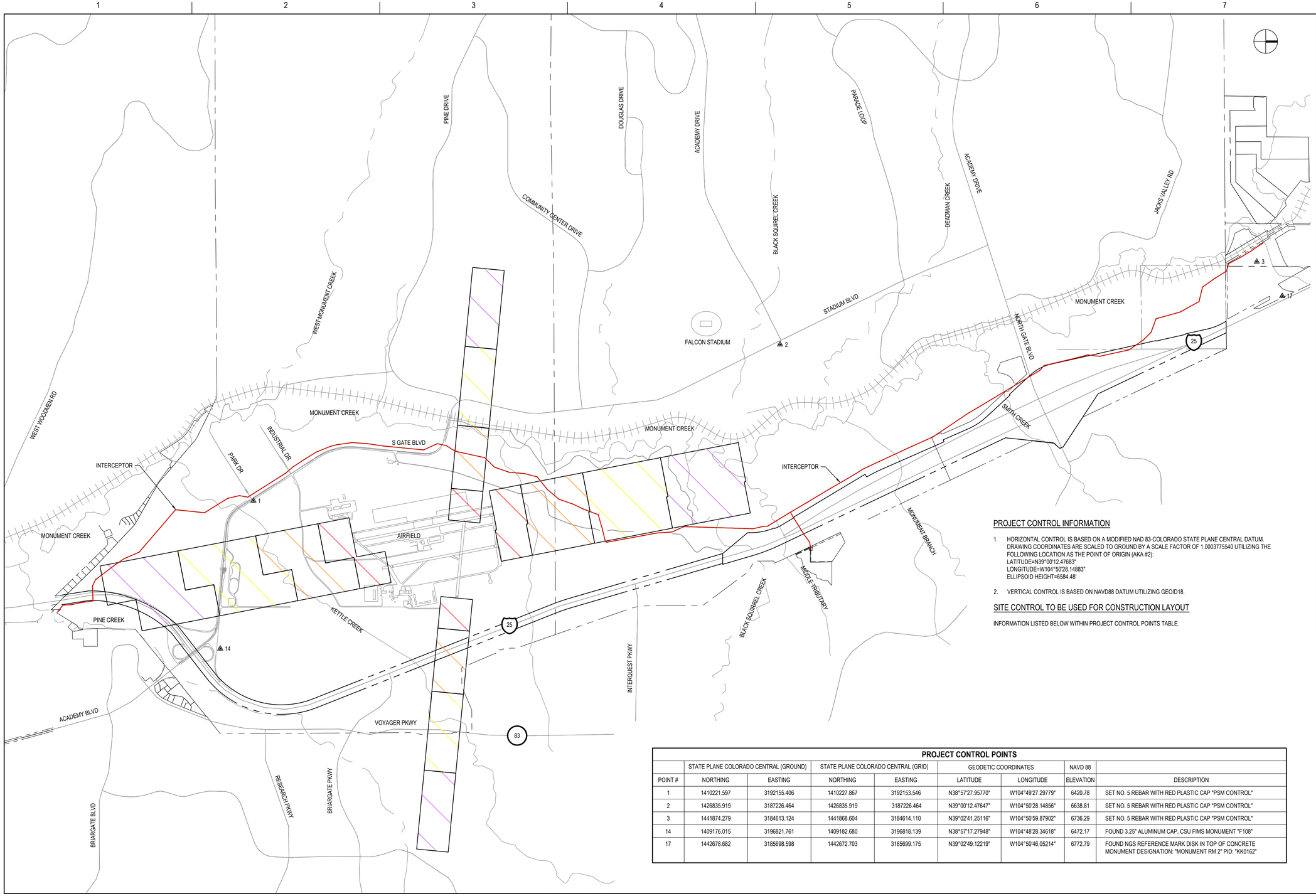
GENERAL ABBREVIATIONS

0 1" 2"

FILENAME 00G005.DWG

SCALE NO SCALE

SHEET 00G005



GENERAL NOTES

A. SEE SHEET 00G003 FOR COLORED HATCH DEFINITIONS.

KEYNOTES (##)

PROJECT CONTROL INFORMATION

1. HORIZONTAL CONTROL IS BASED ON A MODIFIED NAD 83-COLORADO STATE PLANE CENTRAL DATUM. DRAWING COORDINATES ARE SCALED TO GROUND BY A SCALE FACTOR OF 1.0003775540 UTILIZING THE FOLLOWING LOCATION AS THE POINT OF ORIGIN (AKA #2):
   LATITUDE=N39°00'12.47683"
   LONGITUDE=W104°50'28.14883"
   ELLIPSOID HEIGHT=6584.48'
2. VERTICAL CONTROL IS BASED ON NAVD88 DATUM UTILIZING GEOID18.

SITE CONTROL TO BE USED FOR CONSTRUCTION LAYOUT

INFORMATION LISTED BELOW WITHIN PROJECT CONTROL POINTS TABLE.

PROJECT CONTROL POINTS

	STATE PLANE COLORADO CENTRAL (GROUND)		STATE PLANE COLORADO CENTRAL (GRID)		GEODETIC COORDINATES		NAVD 88	
POINT #	NORTHING	EASTING	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION	DESCRIPTION
1	1410221.597	3192155.406	1410227.867	3192153.546	N38°57'27.95770"	W104°49'27.29779"	6420.78	SET NO. 5 REBAR WITH RED PLASTIC CAP "PSM CONTROL"
2	1426835.919	3187226.464	1426835.919	3187226.464	N39°00'12.47647"	W104°50'28.14856"	6638.81	SET NO. 5 REBAR WITH RED PLASTIC CAP "PSM CONTROL"
3	1441874.279	3184613.124	1441868.604	3184614.110	N39°02'41.25116"	W104°50'59.87902"	6736.29	SET NO. 5 REBAR WITH RED PLASTIC CAP "PSM CONTROL"
14	1409176.015	3196821.761	1409182.680	3196818.139	N38°57'17.27948"	W104°48'28.34618"	6472.17	FOUND 3.25" ALUMINUM CAP, CSU FIMS MONUMENT "F108"
17	1442678.682	3185698.598	1442672.703	3185699.175	N39°02'49.12219"	W104°50'46.05214"	6772.79	FOUND NGS REFERENCE MARK DISK IN TOP OF CONCRETE MONUMENT DESIGNATION: "MONUMENT RM 2" PID: "KK0162"

1500 0 1500 3000
SCALE IN FEET
HORIZONTAL SCALE

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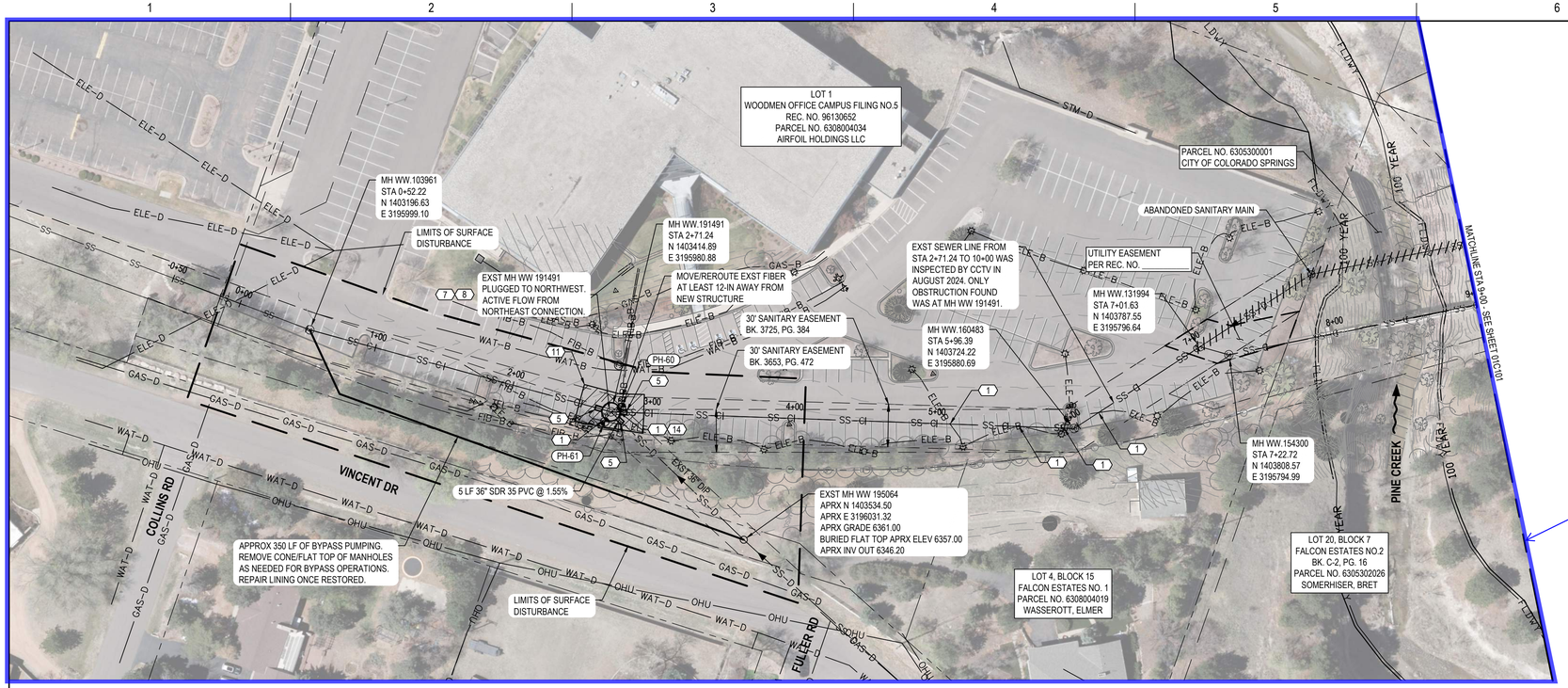
COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

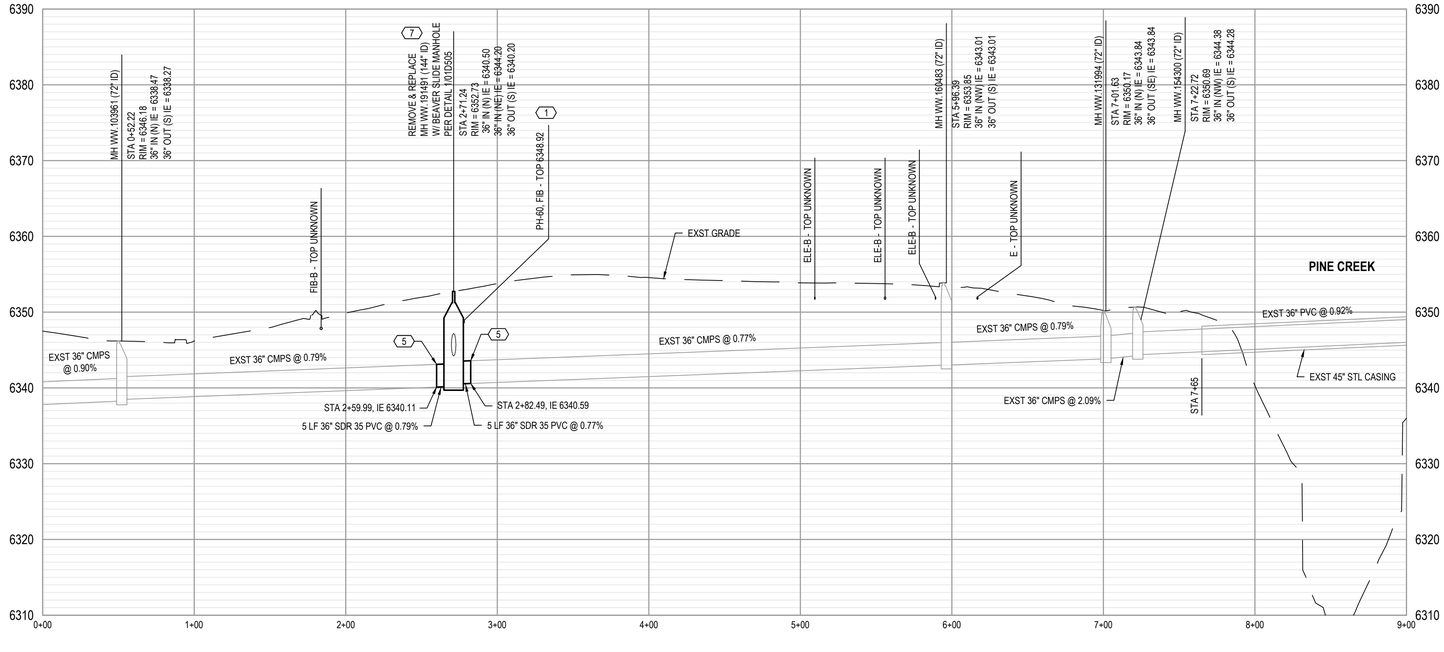
GENERAL
SURVEY CONTROL

0 1" 2"

FILENAME 00G011.DWG
SCALE AS NOTED

SHEET
00G011





GENERAL NOTES

A. SEE SHEET 01G011 FOR SURVEY CONTROL.

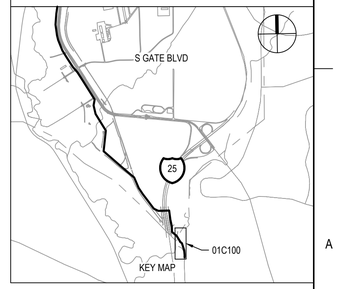
B. PIPE LENGTHS ARE MEASURED CENTER-TO-CENTER OF MANHOLES, UNLESS OTHERWISE NOTED.

F. PROVIDE GRADED BENCH AROUND ALL MANHOLES PER DETAIL 4/01D502.

M. DO NOT ALTER EXISTING ELEVATIONS WITHIN FLOODPLAINS OR FLOODWAYS.

KEYNOTES (##)

1. FIELD LOCATE AND PROTECT EXISTING UTILITY. SEE DETAIL 1/01D501.
5. REMOVE & REPLACE EXISTING SANITARY SEWER WITH SDR 35 PVC AS REQUIRED FOR CONSTRUCTION. FURNISH SHIELDED FERN-CO ADAPTER COUPLING FOR CONNECTION. CONCRETE ENCASE CONNECTION.
7. REMOVE EXISTING MANHOLE AND REPLACE WITH NEW MANHOLE.
8. PROVIDE BYPASS PUMPING AROUND MANHOLE. BYPASS PUMPING PLANS TO BE SUBMITTED FOR REVIEW AND APPROVAL PER SPECIFICATION 01 72 00.
11. SAW CUT PAVEMENT. REMOVE & REPLACE EXISTING CONCRETE CURB, GUTTER, BASE COURSE, ASPHALT, AND STRIPING AS REQUIRED FOR CONSTRUCTION.
14. REMOVE & REPLACE UTILITY AS NEEDED.



50 0 50 100
SCALE IN FEET
HORIZONTAL SCALE

10 0 10 20
SCALE IN FEET
VERTICAL SCALE

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PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

NORTHERN MONUMENT CREEK INTERCEPTOR PLAN & PROFILE STA 0+52.22 TO STA 9+00

0 1" 2"

FILENAME 01C100.DWG
SCALE AS NOTED

SHEET 01C100

GENERAL NOTES

A. SEE SHEET 01G011 FOR SURVEY CONTROL.

B. PIPE LENGTHS ARE MEASURED CENTER-TO-CENTER OF MANHOLES, UNLESS OTHERWISE NOTED.

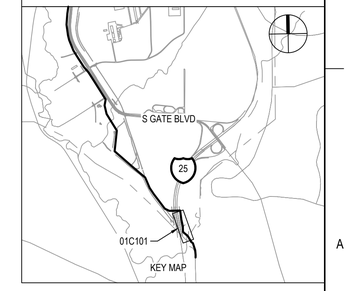
C. PLACE AND COMPACT FILL PER SPECIFICATIONS 31 22 19 AND 31 23 33.

E. INTERCEPTOR MATERIAL INSTALLED VIA OPEN CUT METHODS IS EITHER FRPM (SN 46) OR SOLID WALL SDR 35 PVC. FRPM SHALL BE REQUIRED AT DEPTHS EXCEEDING 39 FEET AND AS NOTED ON PROFILES.

F. PROVIDE GRADED BENCH AROUND ALL MANHOLES PER DETAIL 4/01D502.

KEYNOTES (##)

1. FIELD LOCATE AND PROTECT EXISTING UTILITY. SEE DETAIL 1/01D501.
3. RESTORE ROAD/TRAIL TO PRE-CONSTRUCTION CONDITIONS.
5. REMOVE & REPLACE EXISTING SANITARY SEWER WITH SDR 35 PVC AS REQUIRED FOR CONSTRUCTION. FURNISH SHIELDED FERN-CO ADAPTER COUPLING FOR CONNECTION. CONCRETE ENCASE CONNECTION.
7. REMOVE EXISTING MANHOLE AND REPLACE WITH NEW MANHOLE.
13. REMOVE EXISTING SANITARY SEWER AS REQUIRED FOR CONSTRUCTION. PLUG OPEN ENDS WITH A MINIMUM OF 2 FEET OF FILL CONCRETE OR FLOW FILL.



SCALE IN FEET
HORIZONTAL SCALE

SCALE IN FEET
VERTICAL SCALE

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

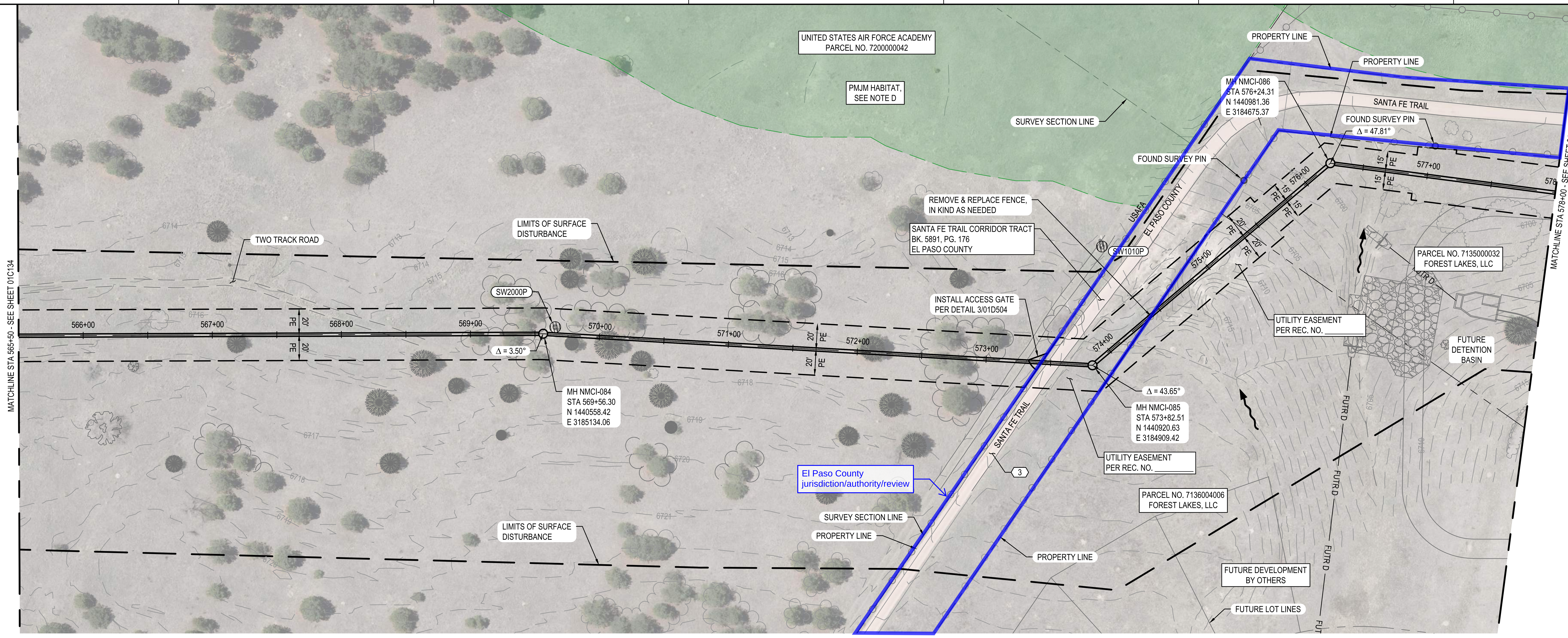
COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

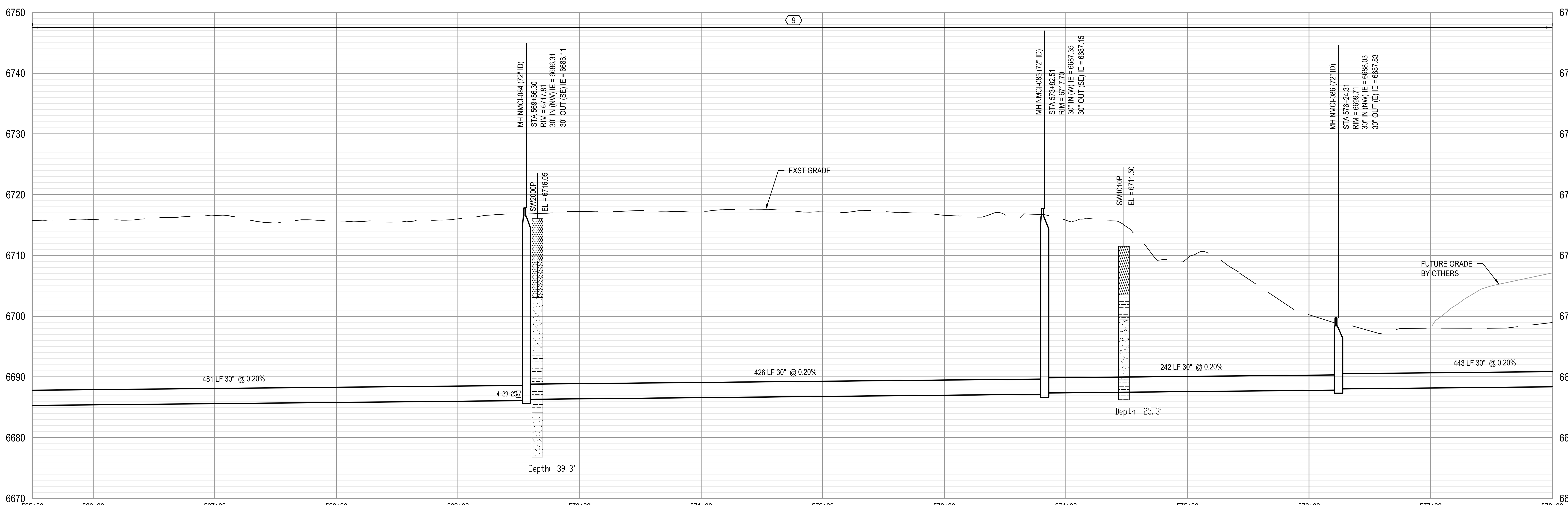
NORTHERN MONUMENT CREEK INTERCEPTOR PLAN & PROFILE STA 9+00 TO STA 20+50

0 1" 2"

FILENAME 01C101.dwg
SCALE AS NOTED

SHEET 01C101





GENERAL NOTES

A. SEE SHEET 01G011 FOR SURVEY CONTROL.

B. PIPE LENGTHS ARE MEASURED CENTER-TO-CENTER OF MANHOLES, UNLESS OTHERWISE NOTED.

D. SEE SPECIFICATIONS 01 14 00 AND 01 35 43 FOR WORK RESTRICTIONS WITHIN HATCHED AREAS.

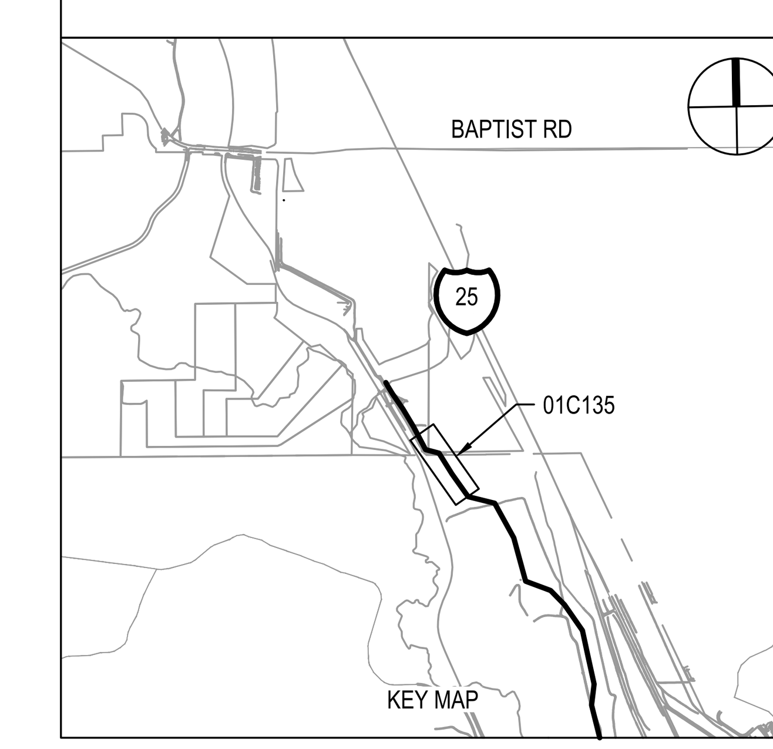
E. INTERCEPTOR MATERIAL INSTALLED VIA OPEN CUT METHODS IS EITHER FRPM (SN 46) OR SOLID WALL SDR 35 PVC. FRPM SHALL BE REQUIRED AT DEPTHS EXCEEDING 39 FEET AND AS NOTED ON PROFILES.

F. PROVIDE GRADED BENCH AROUND ALL MANHOLES PER DETAIL 4/01D502.

KEYNOTES

3. RESTORE TRAIL TO PRE-CONSTRUCTION CONDITIONS.

9. SUMPING ANTICIPATED.



SCALE IN FEET: 50 0 50 100
HORIZONTAL SCALE

SCALE IN FEET: 10 0 10 20
VERTICAL SCALE

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

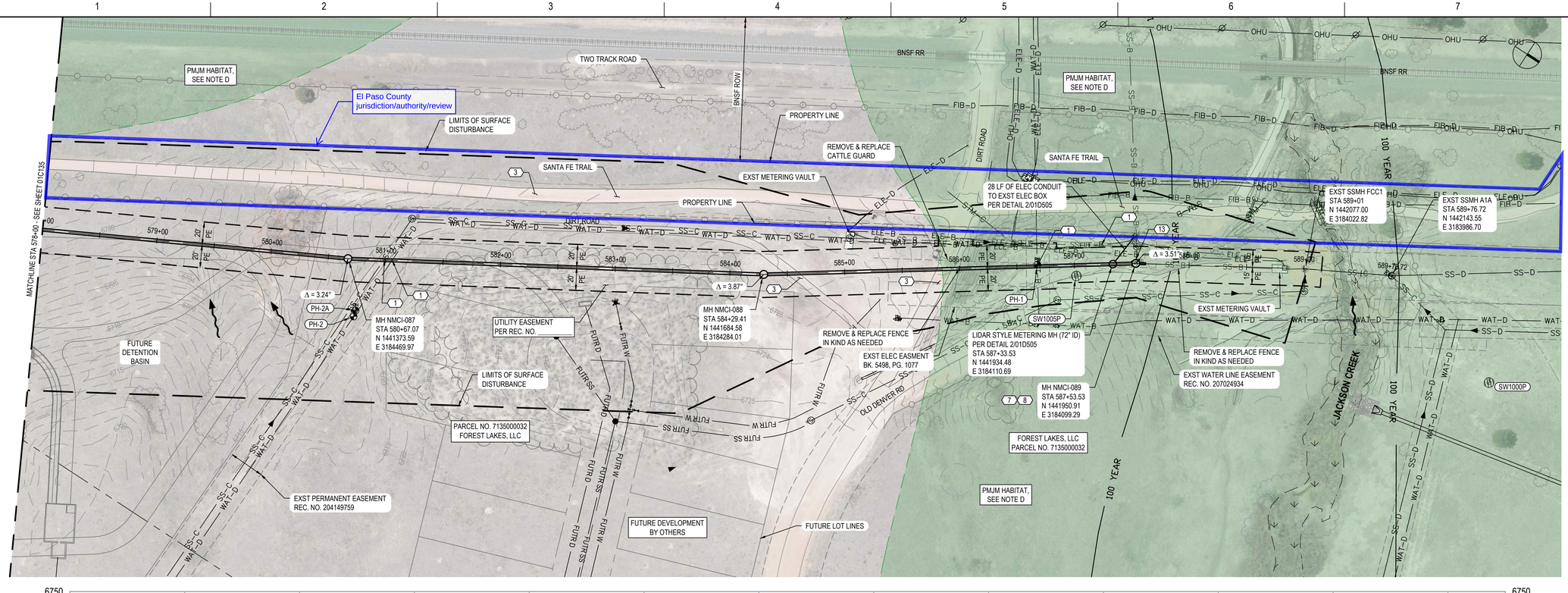
COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

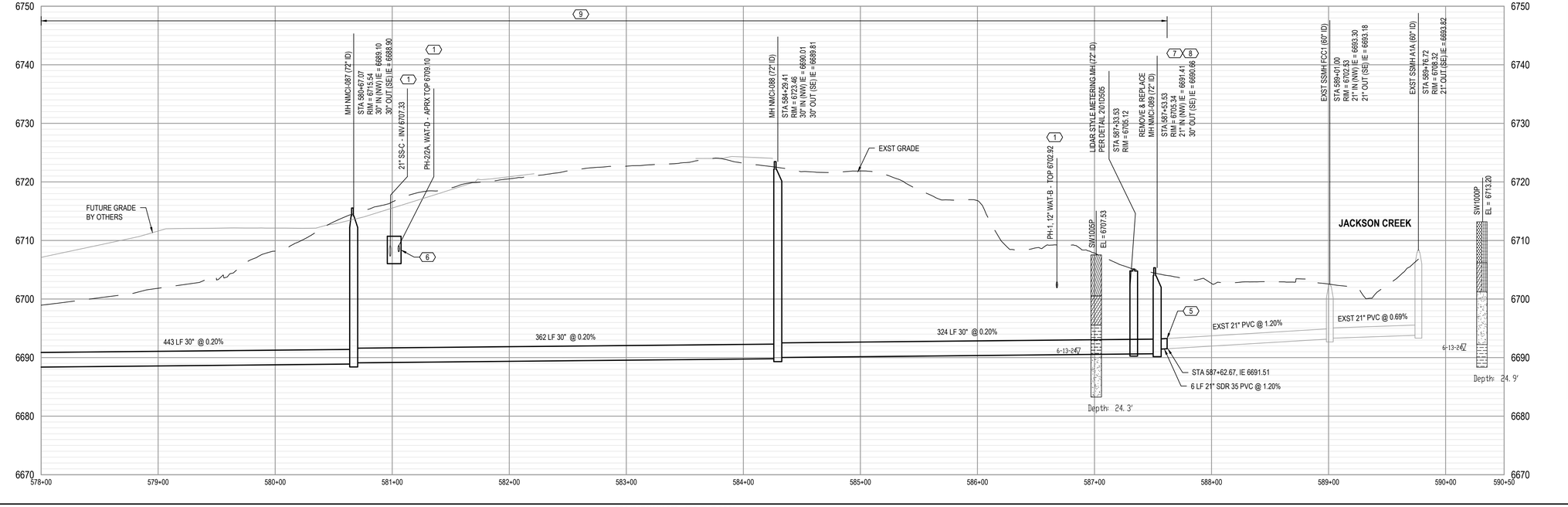
NORTHERN MONUMENT CREEK INTERCEPTOR
PLAN & PROFILE
STA 565+50 TO STA 578+00

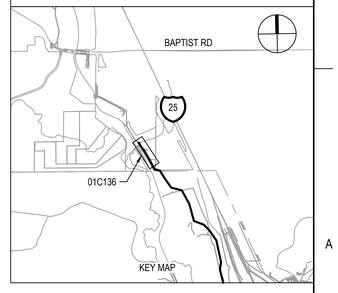
0 1" 2"

FILENAME: 01C135.dwg
SCALE: AS NOTED

SHEET
01C135







GENERAL NOTES

A. SEE SHEET 01G011 FOR SURVEY CONTROL.

B. PIPE LENGTHS ARE MEASURED CENTER-TO-CENTER OF MANHOLES, UNLESS OTHERWISE NOTED.

D. SEE SPECIFICATIONS 01 14 00 AND 01 35 43 FOR WORK RESTRICTIONS WITHIN HATCHED AREAS.

E. INTERCEPTOR MATERIAL INSTALLED VIA OPEN CUT METHODS IS EITHER FRPM (SN 46) OR SOLID WALL SDR 35 PVC. FRPM SHALL BE REQUIRED AT DEPTHS EXCEEDING 39 FEET AND AS NOTED ON PROFILES.

F. PROVIDE GRADED BENCH AROUND ALL MANHOLES PER DETAIL 4/01D502.

M. DO NOT ALTER EXISTING ELEVATIONS WITHIN FLOODPLAINS OR FLOODWAYS.

KEYNOTES (##)

1. FIELD LOCATE AND PROTECT EXISTING UTILITY. SEE DETAIL 1/01D501.
3. RESTORE ROAD/TRAIL TO PRE-CONSTRUCTION CONDITIONS.
5. REMOVE & REPLACE EXISTING SANITARY SEWER WITH SDR 35 PVC AS REQUIRED FOR CONSTRUCTION. FURNISH SHIELDED FERN-CO COUPLING FOR CONNECTION. CONCRETE ENCASE CONNECTION.
6. BACKFILL CROSSED UTILITY LINE WITH FLOW FILL. EXTEND TO 6-INCH BELOW PIPE AND 6-IN ABOVE CROWN.
7. REMOVE EXISTING MANHOLE AND REPLACE WITH NEW MANHOLE.
8. PROVIDE BYPASS PUMPING AROUND MANHOLE. BYPASS PUMPING PLANS TO BE SUBMITTED FOR REVIEW AND APPROVAL PER SPECIFICATION 01 72 00.
9. SUMPING ANTICIPATED.
13. REMOVE EXISTING SANITARY SEWER AS REQUIRED FOR CONSTRUCTION. PLUG OPEN END WITH A MINIMUM OF 2 FEET OF FILL CONCRETE OF FLOW FILL.

50 0 50 100
SCALE IN FEET
HORIZONTAL SCALE

10 0 10 20
SCALE IN FEET
VERTICAL SCALE

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

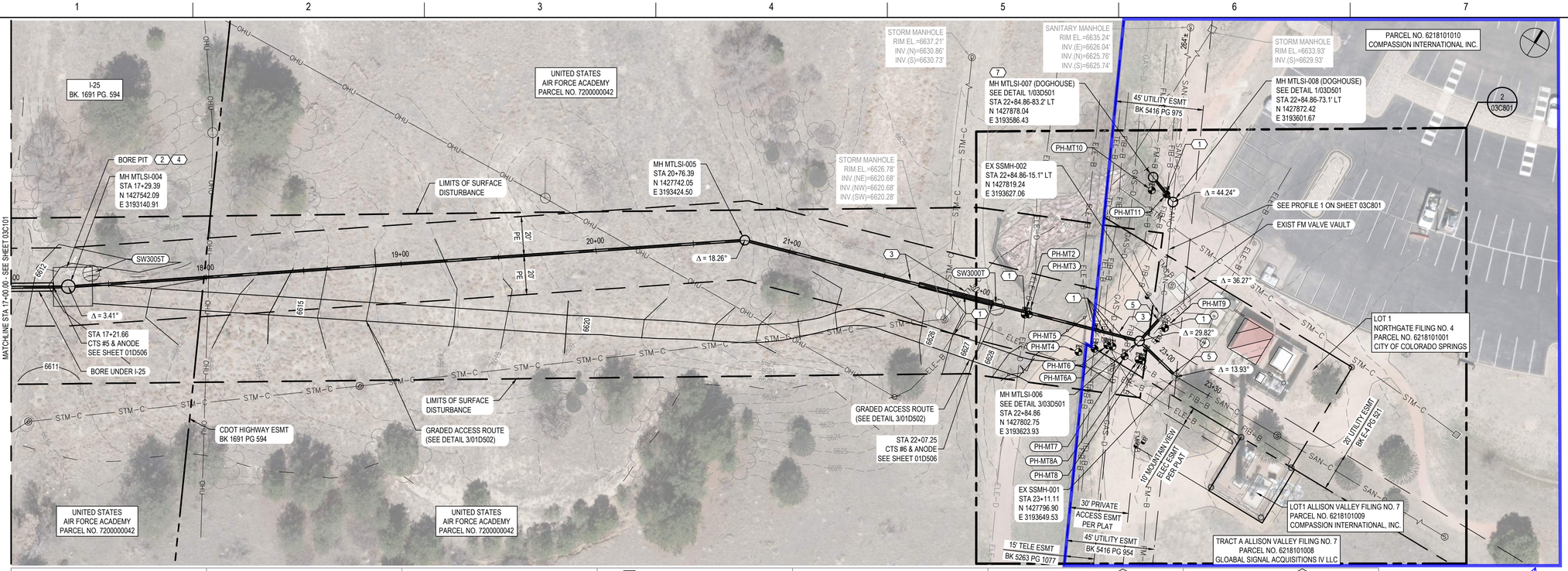
COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

NORTHERN MONUMENT CREEK INTERCEPTOR PLAN & PROFILE STA 578+00 TO STA 587+62.67

0 1" 2"

FILENAME 01C136.dwg
SCALE AS NOTED

SHEET 01C136



GENERAL NOTES

A. SEE SHEET 00G011 FOR SURVEY CONTROL.

B. PIPE LENGTHS ARE MEASURED CENTER-TO-CENTER OF MANHOLES, UNLESS OTHERWISE NOTED.

C. PLACE AND COMPACT FILL PER SPECIFICATIONS 31 22 19 AND 31 23 33.

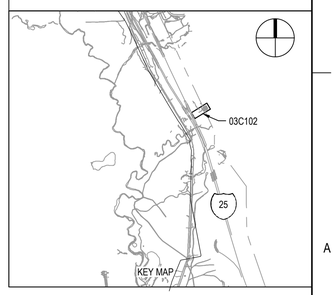
G. TRANSITION PIPE MATERIAL AT TUNNELS FROM MH MTLSI-004 TO MH MTLSI-003. CARRIER PIPE SHALL BE C900 PVC PER SPECIFICATION 33 11 01.03.

I. ACTUAL CASING PIPE THICKNESS TO BE DETERMINED BY CONTRACTOR AS REQUIRED FOR MEANS AND METHODS. SEE SHEETS 01D507 - 01D513 FOR TUNNELING AND MONITORING DETAILS.

F. PROVIDE GRADED BENCH AROUND ALL MANHOLES PER DETAIL 4/01D502.

KEYNOTES (##)

1. FIELD LOCATE AND PROTECT EXISTING UTILITY, SEE DETAIL 1/01D501.
2. APPROXIMATE LIMITS OF TUNNEL SHAFT. ACTUAL LIMITS TO BE DETERMINED BY CONTRACTOR MEANS AND METHODS.
3. RESTORE ROAD/TRAIL TO PRE-CONSTRUCTION CONDITIONS.
4. BACKFILL BOTTOM OF BORE PITS WITH FLOW FILL. EXTEND TO 6-IN ABOVE PIPE CROWN.
5. CORE DRILL EXISTING MANHOLE TO ACCOMMODATE OUTGOING PIPE. SEE DETAIL 4/03D501.
6. ONCE THE NEW PIPE IS ACTIVATED, PLUG EXISTING OUTGOING PIPE WITH A MINIMUM OF 2 FEET OF CONCRETE TO FILL I.D. OF PIPE.
7. CUT EXISTING FORCE MAIN PIPE AND REDIRECT FLOWS TO THE OUTGOING PIPE ONCE ALL CONNECTIONS ARE FINALIZED AND MTLSI IS ACTIVATED. SHAPE CHANNEL ACCORDINGLY.
9. SUMPING ANTICIPATED.



SCALE IN FEET
30 0 30 60
HORIZONTAL SCALE

SCALE IN FEET
8 0 8 16
VERTICAL SCALE

Dewberry
Dewberry Engineers Inc.

HDR

ISSUE	DATE	DESCRIPTION
C	03/2026	100% DESIGN REVIEW
B	11/2025	90% DESIGN REVIEW
A	07/2025	60% DESIGN REVIEW

PROJECT MANAGER	E. DESOUZA
PROJECT ENGINEER	P. HOOD
QUALITY CONTROL	M. GOSSETT
DRAFTER	J. JENKINS
PROJECT NUMBER	50180675

PRELIMINARY
NOT FOR
CONSTRUCTION OR
RECORDING

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

PLAN & PROFILE
STA 17+00 TO STA 23+30

0 1" 2"

FILENAME 03C102.DWG
SCALE AS NOTED

SHEET
03C102

GENERAL GRADING, EROSION, AND SEDIMENT CONTROL PLAN NOTES

1. GRADING, EROSION, AND SEDIMENT CONTROL (GESC) IS USED INTERCHANGEABLY WITH STORMWATER MANAGEMENT PLAN (SWMP) THROUGHOUT THE PLAN SET.
2. CONSTRUCTION ACCESS POINTS TO HAVE CONSTRUCTION FENCE ON BOTH SIDES FROM CONSTRUCTION ALIGNMENT TO PAVED ROAD/VTC OR TO GRAVELED ACCESS. GRAVELED ACCESS CAN BE MAINTAINED COUNTY ROAD OR INTERNAL GRAVEL PIT ROAD, GENERALLY AGGREGATE SURFACED SO THAT VEHICLES ARE NOT PICKING UP SEDIMENT BY TRAVELING ON ROAD.
3. CONTRACTOR TO TEMPORARILY STABILIZE (EX. SURFACE ROUGHEN OR MULCH) ALL DISTURBED AREAS WITHIN 14 DAYS OF THE AREA BEING INACTIVE, UNLESS JURISDICTIONAL REQUIREMENTS ARE MORE RESTRICTIVE.
4. CONTRACTOR TO PERMANENTLY STABILIZE (EX. PAVE OR APPLY SEED AND MULCH) AREAS THAT WILL NO LONGER UNDERGO DISTURBANCE DUE TO CONSTRUCTION WITHIN 14 DAYS OF SUCH AREAS REMAINING DORMANT OR UNDISTURBED, UNLESS JURISDICTIONAL REQUIREMENTS ARE MORE RESTRICTIVE.
5. CONTRACTOR TO PHASE WORK AS MUCH AS PRACTICABLE TO MINIMIZE CONSTRUCTION IN FLOODPLAIN DURING LIKELY FLOODING SEASON, MAY - SEPTEMBER.
6. CONTRACTOR TO STORE MATERIAL STOCKPILED OVERNIGHT OR LONGER OUTSIDE OF FLOODPLAIN AS MUCH AS PRACTICABLE.
7. FOR CONSTRUCTION THAT OCCURS INSIDE OF THE FLOODPLAIN, CONTRACTOR TO STABILIZE DISTURBED AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED WITHIN 5 DAYS DURING LIKELY FLOODING SEASON, MAY - SEPTEMBER.
8. SUBMIT NOTICE OF TERMINATION AS REQUIRED (LOCAL, COUNTY, AND STATE).
9. SEDIMENT CONTROL LOG (SCL) AND SILT FENCE (SF) MAY BE USED INTERCHANGEABLY AT THE DISCRETION OF THE CONTRACTOR UNLESS OTHERWISE PROHIBITED BY LOCAL JURISDICTIONAL REQUIREMENTS.
10. IF LINEAR BMP'S RUN CONTINUOUSLY THROUGHOUT SEVERAL VIEWS OR SHEETS, THE LINEAR FEET DISTANCES ARE MEASURED PER EACH VIEW FROM MATCH LINE TO MATCH LINE.
11. LOCATIONS OF PERIMETER SCL/SF ARE APPROXIMATE.
12. IF EXISTING SITE CONDITIONS (I.E. FENCES, WALLS, TOPOGRAPHY) PROVIDE SUFFICIENT PERIMETER CONTROL, CF MAY NOT BE REQUIRED IN SOME AREAS.
13. SEE ACCESS ROAD SWMP SHEETS FOR CONTROL MEASURES OUTSIDE OF PIPELINE EASEMENT.
14. SEE SPECIFICATION SECTIONS 01 57 19 AND 32 92 00 FOR SPECIFIC CONSTRUCTION AND RESTORATION REQUIREMENTS.

Please address GEC Checklist Item K best you can. I release that it is difficult to make a general note about existing veg across such a large area.

BMP INSTALLATION SEQUENCING CHART

EROSION CONTROL MEASURE	INITIAL PHASE	INTERIM PHASE	FINAL PHASE
CONSTRUCTION BOUNDARY FENCE	X	X	
SILT FENCE	X	X	
EROSION CONTROL BLANKET			X
INLET PROTECTION	X	X	
VEHICLE TRACKING CONTROL	X	X	
SEEDING AND MULCHING			X
STOCKPILE MANAGEMENT		X	
ROCK SOCK PROTECTION	X	X	
CHECK DAM	X	X	

OVERLAY & PRESERVATION EASEMENT NOTE:

THE CITY STREAMSIDE OVERLAY AND CITY HILLSIDE OVERLAY ARE NOT APPLICABLE. THERE ARE NO PRESERVATION EASEMENTS ON SITE.

ANTICIPATED SCHEDULE:

BEGIN DISTURBANCE: SUMMER 2026
END DISTURBANCE: SUMMER 2028
FINAL STABILIZATION: SUMMER 2028

RECEIVING WATERS:

MONUMENT CREEK

ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
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PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY
NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC NOTES

0 1" 2"

FILENAME 05C001.DWG
SCALE AS NOTED

SHEET 05C001

GENERAL NOTES (CITY OF COLORADO SPRINGS)

1. NO CLEARING, GRADING, EXCAVATION, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE ALLOWED (EXCEPT FOR WORK DIRECTLY RELATED TO THE INSTALLATION OF INITIAL CONTROL MEASURES) UNTIL A CITY GEC PERMIT HAS BEEN ISSUED.

2. ALL LAND DISTURBING ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH AND THE APPROVED GEC PLAN AND CSWMP.

3. INITIAL CONTROL MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TAKING PLACE. AN INITIAL SITE INSPECTION WILL NOT BE SCHEDULED UNTIL A CITY GEC PERMIT HAS BEEN "CONDITIONALLY APPROVED." CALL CITY STORMWATER INSPECTIONS, 385-5980, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE AN INITIAL INSPECTION AND OBTAIN FULL PERMIT APPROVAL.

4. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS) AND THE "CLEAN WATER ACT" (33 USC 1344), INCLUDING REGULATIONS PROMULGATED AND CERTIFICATIONS OR PERMITS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE CITY'S MS4 PERMIT, STORMWATER CONSTRUCTION MANUAL. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

5. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS.

6. ALL CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION MEASURES ARE IMPLEMENTED. TEMPORARY CONSTRUCTION CONTROL MEASURES MUST BE REMOVED PRIOR TO PERMIT CLOSEOUT.

7. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS OR ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.

8. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONSTRUCTION CONTROL MEASURES MAY BE REQUIRED BY THE GEC INSPECTOR IF DEEMED NECESSARY BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON OF THE YEAR, ETC.).

9. ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

10. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AS A RESULT OF CONSTRUCTION ACTIVITIES.

11. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO THE STORM SEWER SYSTEM AT ANY TIME.

12. SPILL PREVENTION AND CONTAINMENT MEASURES SHALL BE USED AT ALL STORAGE, EQUIPMENT FUELING, AND EQUIPMENT SERVICING AREAS SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING THE MS4, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITY. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE SECONDARY CONTAINMENT OR EQUIVALENT ADEQUATE PROTECTION. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.

13. SEDIMENT (MUD AND DIRT) TRANSPORTED ONTO A PUBLIC ROAD, REGARDLESS OF THE SIZE OF THE SITE, SHALL BE CLEANED AS SOON AS POSSIBLE AFTER DISCOVERY.

14. NO CHEMICALS ARE TO BE ADDED TO THE DISCHARGE UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED BY THE STATE. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

15. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER FINAL GRADING OR FINAL LAND DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN FOURTEEN (14) DAYS SHALL BE ROUGHENED, MULCHED, TACKIFIED, OR STABILIZED WITH TARPS WITHIN FOURTEEN (14) DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN SIXTY (60) DAYS SHALL ALSO BE SEEDED, UNLESS AN ALTERNATIVE STABILIZATION MEASURE IS ACCEPTED AT THE INSPECTOR'S DISCRETION. ALL TEMPORARY CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED.

16. THE GEC PLAN WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY THE STORMWATER ENTERPRISE SHOULD ANY OF THE FOLLOWING OCCUR: GRADING DOES NOT COMMENCE WITHIN TWELVE (12) MONTHS OF THE CITY'S ACCEPTANCE OF THE PLAN, THE CONSTRUCTION SITE IS IDLE FOR TWELVE (12) CONSECUTIVE MONTHS, A CHANGE IN PROPERTY OWNERSHIP OCCURS, THE PLANNED DEVELOPMENT CHANGES, OR ANY OTHER MAJOR MODIFICATIONS ARE PROPOSED AS DEFINED IN THE STORMWATER CONSTRUCTION MANUAL.

17. IT IS NOT PERMISSIBLE FOR ANY PERSON TO MODIFY THE GRADE OF THE EARTH ON ANY UTILITY EASEMENT OR UTILITY RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM THE UTILITY OWNER. CITY ACCEPTANCE OF THE GEC PLAN AND CSWMP DOES NOT SATISFY THIS REQUIREMENT. THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO EXISTING UTILITY FACILITIES TO ACCOMMODATE THE PLAN MUST BE APPROVED BY THE AFFECTED UTILITY OWNER PRIOR TO IMPLEMENTING THE PLAN. THE COST TO RELOCATE OR PROTECT EXISTING UTILITIES OR TO PROVIDE INTERIM ACCESS SHALL BE AT THE APPLICANT'S EXPENSE.

18. APPLICANT REPRESENTS AND WARRANTS THAT THEY HAVE THE LEGAL AUTHORITY TO GRADE AND/OR CONSTRUCT IMPROVEMENTS ON ADJACENT PROPERTY. THE CITY HAS NOT REVIEWED THE DEVELOPER'S AUTHORITY TO MODIFY ADJACENT PROPERTY. AN APPROVED GEC PERMIT DOES NOT PROVIDE APPROVAL FOR THE APPLICANT TO PERFORM WORK ON ADJACENT PROPERTY.

GENERAL NOTES (UNITED STATES AIR FORCE ACADEMY)

1. TOPSOIL STOCKPILES SHALL NOT HAVE SIDE SLOPES GREATER THAN 3:1 AND SHALL NOT EXCEED TEN FEET (10') IN HEIGHT. STOCKPILES SHALL BE SEEDED WITH THE TEMPORARY SEED MIX OR WIT HTHE APPROPRIATE PERMANENT NATIVE SEED MIX WITHIN 14 DAYS OF STOCKPILING. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPS) SHALL BE USED AROUND THE DOWNGRADIENT PERIMETER OF ALL STOCKPILES, INCLUDING TOPSOIL STOCKPILES.

2. WETLAND TOPSOIL SHALL BE SALVAGED AND STOCKPILED SEPARATELY. STOCKPILED WETLAND TOPSOIL SHALL ONLY BE USED IN AREAS WHERE WETLANDS WILL BE REESTABLISHED. WETLAND TOPSOIL SHOULD BE SALVAGED AND REPLACED IN WETLAND ESTABLISHMENT AREAS AS SOON AS POSSIBLE TO AVOID A LOSS IN VIABILITY. WETLAND TOPSOIL STOCKPILES SHALL NOT EXCEED THREE FEET (3') IN HEIGHT OR WIDTH AND SHALL NOT BE KEPT FOR MORE THAN FOUR WEEKS. STOCKPILING WETLAND TOPSOIL IN THE SUMMER OR DURING PERIODS OF HIGH TEMPERATURES SHOULD BE AVOIDED WHEN POSSIBLE.

3. TOPSOIL CONTAINING DENSE NOXIOUS OR INVASIVE NON-NATIVE WEED SEED BANKS SHALL NOT BE SALVAGED FOR REUSE. THE TOP TWO TO FOUR INCHES (2-4") OF TOPSOIL IN AREAS DOMINATED BY NOXIOUS OR INVASIVE NON-NATIVE WEEDS SHALL BE SCRAPED AND BURIED TO LIMIT ESTABLISHMENT AND SPREAD OF THESE SPECIES POST-CONSTRUCTION.

4. COMPOST AND FERTILIZERS SHALL NOT BE APPLIED TO AREAS WITHIN 50 HORIZONTAL FEET (50') FROM WATERBODIES TO AVOID IMPACTS TO WATER QUALITY.

5. FALL THROUGH SPRING (OCTOBER 15 TO APRIL 15) IS THE PREFERRED WINDOW FOR NON-IRRIGATED SEEDING. SITES SHALL NOT BE SEEDED IF THEY ARE FROZEN, SNOW COVERED, OR MUDDY.

6. WEED CONTROL IS REQUIRED DURING CONSTRUCTION.

7. EROSION CONTROL MEASURES FOR ALL DISTURBED AREAS SHALL BE INSTALLED PRIOR TO GRADING OR DISTURBANCES HAVE BEGUN.

8. MANUFACTURED BIODEGRADABLE STAKES OR WOODEN STAKES SHALL BE USED TO ANCHOR ALL EROSION MATERIALS. DO NOT USE METAL STAKES TO SECURE BLANKETS.

9. EROSION CONTROL BLANKETS, STRAW COIR LOGS, AND/OR SOIL BERMS SHALL BE USED WHENEVER RECLAIMING AND STABILIZING SLOPES GREATER THAN 4:1 OR ALONG DRAINAGEWAYS.

ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
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A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY
NOT FOR
CONSTRUCTION OR
RECORDING

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
COLORADO SPRINGS & USAFA NOTES

0 1" 2"

FILENAME 05C002.DWG
SCALE AS NOTED

SHEET
05C002

GENERAL NOTES (EL PASO COUNTY)

1. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE, AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY (EPC) STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE (LDC), THE ENGINEERING CRITERIA MANUAL (ECM), THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME 1 AND 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.

2. A PRECONSTRUCTION MEETING BETWEEN THE PERMIT HOLDER(S) AND EL PASO COUNTY SHALL BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES. IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER(S) TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF. NO LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES BEYOND THE INSTALLATION OF THE INITIAL CONSTRUCTION CONTROL MEASURES (CCMS), AS INDICATED ON THE APPROVED GEC PLAN OR CDS WITH GEC PLANS, MAY OCCUR PRIOR TO RECEIVING A NOTICE TO PROCEED (NTP) ISSUED BY THE ECM ADMINISTRATOR. FAILURE TO OBTAIN A NOTICE TO PROCEED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES MAY RESULT IN AN IMMEDIATE STOP WORK ORDER (SWO).

3. CONSTRUCTION CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. STORMWATER RUNOFF FROM ALL DISTURBED AREAS AND SOIL STORAGE AREAS MUST UTILIZE OR FLOW TO ONE OR MORE CCM(S) TO MINIMIZE EROSION OR SEDIMENT IN THE DISCHARGE. THE CCM(S) MUST CONTAIN OR FILTER FLOWS IN ORDER TO PREVENT THE BYPASS OF FLOWS WITHOUT TREATMENT AND MUST BE APPROPRIATE FOR STORMWATER RUNOFF FROM DISTURBED AREAS AND FOR THE EXPECTED FLOW RATE, DURATION, AND FLOW CONDITIONS (E.G., SHEET OR CONCENTRATED FLOW).

4. ALL CCMS SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED. THE QUALIFIED STORMWATER MANAGER (QSM) SHALL ASSESS THE ADEQUACY OF CCMS AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CCMS ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CCMS.

5. PRIOR TO CONSTRUCTION THE PERMIT HOLDER(S) SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.

6. MANAGEMENT OF THE STORMWATER MANAGEMENT PLAN (SWMP) DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QSM. THE SWMP SHALL BE LOCATED ON-SITE OR DIGITALLY ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED AS WRITTEN FROM THE START OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS ACHIEVED. THE QSM SHALL AMEND THE SWMP WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE SITE WHICH WOULD REQUIRE THE IMPLEMENTATION OF NEW OR REVISED CCMS OR IF THE SWMP PROVES TO BE INEFFECTIVE IN CONTROLLING POLLUTANTS IN STORMWATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY OR WHEN CCMS ARE NO LONGER NECESSARY AND ARE REMOVED. THE QSM SHALL MAINTAIN A RECORD OF AMENDMENTS MADE TO THE SWMP THAT INCLUDES THE DATE AND IDENTIFICATION OF THE CHANGES.

7. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A RECEIVING WATER UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED. IN ADDITION TO MAINTAINING 50 HORIZONTAL FEET OF PRE-EXISTING VEGETATION UPGRADIENT OF A RECEIVING WATER (UNLESS INFEASIBLE AND APPROVED), THE PERMIT HOLDER(S) MUST INSTALL CCMS UPGRADIENT OF THE VEGETATIVE BUFFER.

8. TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.

9. EROSION CONTROL BLANKET (ECB) OR OTHER APPROVED CONTROL MEASURE(S) SHALL BE USED ON SLOPES STEEPER THAN 3:1.

10. VEHICLE TRACKING CONTROLS (VTC) MUST BE IMPLEMENTED TO MINIMIZE VEHICLE TRACKING OF SEDIMENT FROM DISTURBED AREAS. VTCS MUST INCLUDE A STRUCTURE CONTROL MEASURE (E.G., TRACKING PAD) AND MAY INCLUDE A NON-STRUCTURAL CONTROL MEASURE (E.G., SWEEPING). MATERIAL TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.

11. ANY TEMPORARY OR PERMANENT CONTROL MEASURE DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE.

12. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER. PERMANENT CONTROL MEASURES (PCMS), OR DITCHES EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.

13. ALL PCMS SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PCMS MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.

14. SOIL COMPACTION MUST BE MINIMIZED IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED OR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION PCMS SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF SOIL COMPACTION DOES OCCUR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER OR IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED, DECOMPACTION OF THE SOIL MUST BE COMPLETED PRIOR TO PLANTING OR INSTALLATION OF THE PCM(S). AN INFILTRATION TEST MUST BE CONDUCTED FOR ALL INFILTRATION PCMS AND THE INFILTRATION TEST RESULTS SUBMITTED TO EL PASO COUNTY PRIOR TO PRELIMINARY ACCEPTANCE (PA)

15. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND PERMANENT STABILIZATION METHODS ARE COMPLETE. WHEN USING VEGETATIVE COVER AS A PERMANENT STABILIZATION METHOD, THE VEGETATION SHALL BE EVENLY DISTRIBUTED PERENNIAL VEGETATION AND OF THE VARIETY AND SPECIES FOUND IN THE COUNTY-APPROVED SEED MIXES OR IN THE APPROVED GEC PLAN. VEGETATION COVERAGE SHALL BE, AT A MINIMUM, EQUAL TO 70% OF WHAT WOULD HAVE BEEN PROVIDED BY NATIVE VEGETATION IN A LOCAL, UNDISTURBED AREA OR ADEQUATE REFERENCE SITE. ALL TEMPORARY CCMS SHALL BE REMOVED UPON FINAL STABILIZATION AND PRIOR TO STORMWATER PERMIT TERMINATION.

16. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.

17. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO BE DISCHARGED OFFSITE OR TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR CONTROL MEASURES. CONCRETE WASHOUT AREAS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK, OR STREAM.

18. DURING CONSTRUCTION DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON- SITE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT'S (CDPHE) LOW RISK DISCHARGE GUIDANCE POLICY FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND. IF CONSTRUCTION DEWATERING OPERATIONS ARE UNABLE TO MEET ALL CRITERIA, CONDITIONS, AND CONTROL MEASURE REQUIREMENTS OF THE LOW RISK DISCHARGE GUIDANCE POLICY, A COLORADO DISCHARGE PERMIT SYSTEM (CDPS) GENERAL PERMIT COG080000 WILL BE REQUIRED.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTE FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES, OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

20. THE PERMIT HOLDER(S) SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

21. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

22. MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. APPROPRIATE CMS SHALL BE UTILIZED BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCE.

23. BULK STORAGE (I.E., INDIVIDUAL CONTAINERS OF 55 GALLONS OR GREATER) OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT, OR EQUIVALENT PROTECTION, TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM, OR OTHER FACILITIES.

24. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

25. ON AREAS OF EXPOSED SOIL, MINIMIZE DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES. WATER APPLICATION MUST BE CONDUCTED IN A MANNER TO PREVENT DISCHARGE OFFSITE UNLESS AUTHORIZED BY A CDPS OR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.

26. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.

27. FOR SITES WHERE A SOILS REPORT IS REQUIRED, THE APPROVED SOILS REPORT FOR THIS SITE SHALL BE CONSIDERED A PART OF THESE PLANS.

28. PERMIT HOLDER(S) AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUME 2, AND ENGINEERING CRITERIA MANUAL. ALL APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS MUST BE OBTAINED PRIOR TO CONSTRUCTION. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE OR LESS THAN 1 ACRE AND PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT WOULD DISTURB 1 OR MORE ACRES, THE PERMIT HOLDER(S) SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE (COR400000 PERMIT) TO THE CDPHE WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A SWMP, OF WHICH THIS GEC PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD-PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

please go ahead and get these signed with the next submittal since EPC has so few comments on the docs with this submittal.

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY, AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

ENGINEER OF RECORD SIGNATURE _____ DATE _____

OWNER'S STATEMENT

I, THE OWNER/DEVELOPER, HAVE READ AND COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

OWNER SIGNATURE _____ DATE _____

EL PASO COUNTY STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT BEEN STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

GEC Checklist Item EE. Per his request, please also add Josh's middle initial "J." here

JOSHUA PALMER, P.E.
COUNTY ENGINEER/ECM ADMINISTRATOR _____ DATE _____

ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
EL PASO COUNTY NOTES

0 1" 2"

FILENAME 05C003.DWG
SCALE AS NOTED

SHEET 05C003

ECB
Erosion Control Blanket

1.0 DESCRIPTION

- Woven blankets made of natural and biodegradable materials placed on disturbed areas and secured to the ground with staples or stakes.

2.0 PURPOSE

- Used to control erosion, retain sediment resulting from sheet flow, and protect newly seeded areas.

3.0 IMPLEMENTATION

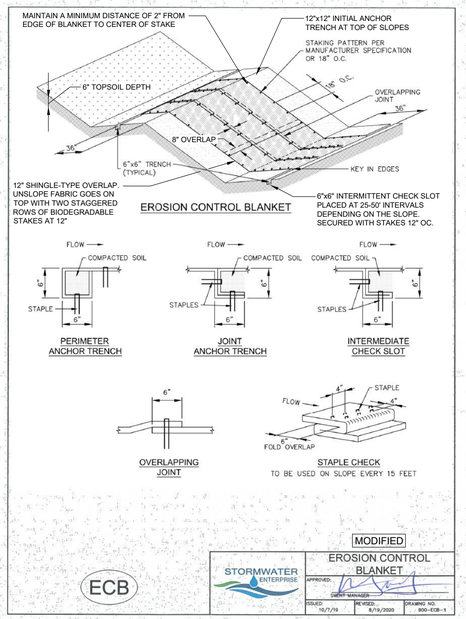
- Install erosion control blankets over uniform surfaces, with no large rocks, vegetation, or rills.
- Properly prepare topsoil and apply seed prior to blanket installation.
- Erosion control blankets must be made from 100% natural and biodegradable materials.
- Turf reinforcement mats may be used in place of erosion control blankets when specified by engineer.

4.0 TIMING

- Install in disturbed areas after final grading and seeding has been completed.
- Leave erosion control blankets in place to biodegrade, or remove if required by the GEC Inspector.

5.0 MAINTENANCE

- Any erosion control blanket pulled out, torn, or otherwise damaged shall be repaired or reinstalled.
- Any subgrade areas below the geotextile that have eroded to create a void under the blanket, or that remain devoid of grass shall be repaired, reseeded and mulched and the erosion control blanket reinstalled.
- Broken or damaged staking must be repaired immediately when identified.



MODIFIED

ECB

STORMWATER ENTERPRISE — EROSION CONTROL BLANKET

APPROVED:	CHIEF MANAGER:		
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-ECB-1	

INSTALLATION NOTES

1. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE REQUIRED FOR EROSION CONTROL BLANKETS. TRM PRODUCTS MAY ME USED WHERE APPROPRIATE AS DESIGNATED BY THE ENGINEER.
2. IN AREAS WHERE EROSION CONTROL BLANKETS ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO EROSION CONTROL BLANKET INSTALLATION, AND THE EROSION CONTROL BLANKET SHALL BE IN FULL CONTACT WITH THE SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
3. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
4. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL EROSION CONTROL BLANKETS.
5. INTERMEDIATE CHECK SLOT OR STAPLE CHECK SHALL BE INSTALLED EVERY 15' DOWN SLOPES. IN DRAINAGEWAYS, INSTALL CHECK SLOTS EVERY 25' PERPENDICULAR TO FLOW DIRECTION.
6. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF EROSION CONTROL BLANKETS TOGETHER FOR EROSION CONTROL BLANKETS ON SLOPES.
7. MATERIAL SPECIFICATIONS OF EROSION CONTROL BLANKETS SHALL CONFORM TO TABLE ECB-1.
8. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING EROSION CONTROL BLANKETS SHALL BE RESEEDED AND MULCHED.
9. STRAW EROSION CONTROL BLANKETS SHALL NOT BE USED WITHIN STREAMS AND DRAINAGE CHANNELS.
10. COMPACT ALL TRENCHES.
11. STAKE TYPES SHALL BE THE FOLLOWING:
    A. KOIR FABRIC SHALL BE SECURED USING 2"x2"x24" WOOD STAKES AS SHOWN IN DETAIL. THESE STAKES SHALL BE DRIVEN TO A DEPTH THAT LEAVES 3" MAX EXPOSED ABOVE THE FABRIC.
    B. COCONUT FABRIC SHALL BE SLOPED DEPENDENT. IF SLOPES GREATER THAN 3:1 OR EROSION CONTROL FABRIC WILL EXPERIENCE LIVE STORM FLOWS, USE 2"x2"x24" WOOD STAKES. OTHERWISE, USE ECO-STAKES.
12. METAL STAPLES ARE NOT ALLOWED.
13. BLANKET SHOULD NOT BE STRETCHED TIGHT BUT SHOULD HAVE FULL CONTACT WITH THE SOIL BELOW.
14. REFER TO STAPLE PATTERN GUIDE FOR SLOPES FOR APPROPRIATE STAKE SPACING AND PATTERN.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. EROSION CONTROL BLANKETS SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE. TRM MUST BE REMOVED AT THE DISCRETION OF THE CEC INSPECTOR.
3. ANY EROSION CONTROL BLANKET PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW GEOTEXTILE THAT HAVE ERODED TO CREATE A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE EROSION CONTROL BLANKET REINSTALLED.

TABLE ECB-1, EROSION CONTROL BLANKET MATERIAL SPECIFICATIONS

TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING
STRAW	–	100%	–	DOUBLE/NATURAL
STRAW-COCONUT	30% MIN.	70% MAX.	–	DOUBLE/NATURAL
COCONUT	100%	–	–	DOUBLE/NATURAL
EXCELSIOR	–	–	100%	DOUBLE/NATURAL

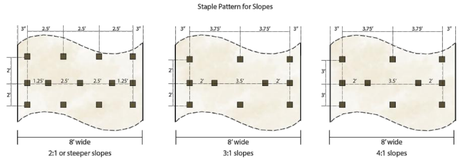
MODIFIED

ECB

STORMWATER ENTERPRISE — EROSION CONTROL BLANKET

APPROVED:	CHIEF MANAGER:		
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-ECB-2	

Figure 9: Erosion Control Blanket Staking Patterns



SF
Silt Fence

1.0 DESCRIPTION

- Silt fence is a temporary sediment barrier consisting of woven geotextile fabric attached to supporting posts and trenched into the soil.

2.0 PURPOSE

- Used to intercept sheet flow prior to leaving a construction site.
- May be used around the perimeter of a construction site.

3.0 IMPLEMENTATION

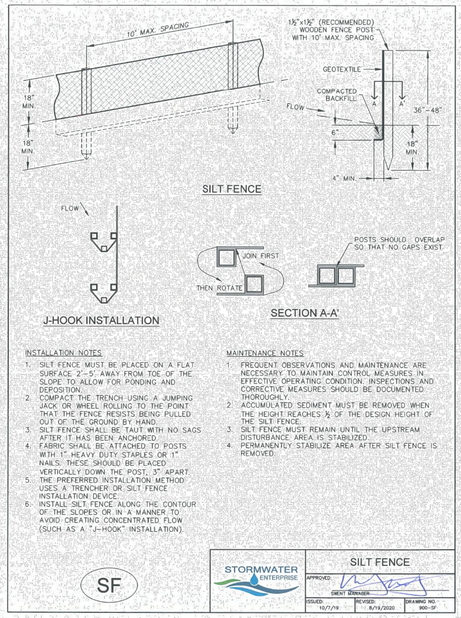
- Install silt fence to intercept sheet flow runoff from disturbed areas.
- Silt fence is not designed to be used as a filter fabric.
- Do not install silt fence across streams, channels, swales, ditches, or other drainageways.
- Install silt fence along the contour of slopes or in a manner to avoid creating concentrated flow (i.e. "J-hook" installation).
- The maximum tributary drainage area per 100 liner feet of silt fence is 1/4 acre.
- Properly installed silt fence should not be easily pulled out by hand and there should be no gaps between the ground and fabric.

4.0 TIMING

- Install prior to land disturbing activities.
- Remove silt fence after the upstream area has been permanently stabilized.

5.0 MAINTENANCE

- Remove and properly dispose of sediment when it has accumulated to 1/2 of the height of the exposed silt fence.
- Inspect for and repair or replace damaged silt fence.



INSTALLATION NOTES

1. SILT FENCE MUST BE PLACED ON A FLAT SURFACE 2"–5" AWAY FROM TOE OF THE SLOPE TO ALLOW FOR PONDING AND DEPOSITION.
2. COMPACT THE TRENCH USING A JUMPING JACK OR WHEEL ROLLING TO THE POINT THAT THE FENCE RESISTS BEING PULLED OUT OF THE GROUND BY HAND.
3. SILT FENCE SHALL BE TAUT WITH NO SAGS AFTER IT HAS BEEN ANCHORED.
4. FABRIC SHALL BE ATTACHED TO POSTS WITH 1" HEAVY DUTY STAPLES OR 1" NAILS. THESE SHOULD BE PLACED VERTICALLY DOWN THE POST, 3" APART.
5. THE PREFERRED INSTALLATION METHOD USES A TRENCHER OR SILT FENCE INSTALLATION DEVICE.
6. INSTALL SILT FENCE ALONG THE CONTOUR OF THE SLOPES OR IN A MANNER TO AVOID CREATING CONCENTRATED FLOW (SUCH AS A "J-HOOK" INSTALLATION).

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN HEIGHT OF THE SILT FENCE.
3. SILT FENCE MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AFTER SILT FENCE IS REMOVED.

SF

STORMWATER ENTERPRISE — SILT FENCE

APPROVED:	CHIEF ENGINEER:		
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-SF	

SM
Seeding and Mulching

1.0 DESCRIPTION

- The preparation of soil, application of much, and application of seed to disturbed areas.

2.0 PURPOSE

- Used to control runoff and erosion on disturbed areas by establishing vegetative cover.
- Reduces erosion and sediment loss.
- Provides permanent stabilization in disturbed areas.

3.0 IMPLEMENTATION

- All soil testing, soil amendment and fertilizer documentation, and seed load and bag tickets must be added to the CSWMP.
- Properly prepare soil prior to seeding and mulching.
- Apply seed mixes as specified in the City of Colorado Springs Stormwater Construction Manual. Alternative seed mixes are acceptable if included in an approved Landscaping Plan.
- Mulch seeded areas using hay or straw mulch, hydraulic mulching, or install erosion control blanket.

4.0 TIMING

- Seed and mulch disturbed areas after final grading.
- Seeding and mulching may also be used as a temporary erosion control measure during construction.

5.0 MAINTENANCE

- Repair and reseed bare areas as necessary.
- Restrict vehicle access to seeded areas.

SEEDING & MULCHING

ALL SOIL TESTING, SOILS AMENDMENT AND FERTILIZER DOCUMENTATION, AND SEED LOAD AND BAG TICKETS MUST BE ADDED TO THE CSWMP.

SOIL PREPARATION

1. IN AREAS TO BE SEEDED, THE UPPER 6 INCHES OF THE SOIL MUST NOT BE HEAVILY COMPACTED, AND SHOULD BE IN FRIABLE CONDITION. LESS THAN 85% STANDARD PROCTOR DENSITY IS ACCEPTABLE. AREAS OF COMPACTION OR GENERAL CONSTRUCTION ACTIVITY MUST BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES PRIOR TO SPREADING TOPSOIL TO BREAK UP COMPACTED LAYERS AND PROVIDE A BLENDING ZONE BETWEEN DIFFERENT SOIL LAYERS.
2. AREAS TO BE PLANTED SHALL HAVE AT LEAST 4 INCHES OF TOPSOIL SUITABLE TO SUPPORT PLANT GROWTH.
3. THE CITY RECOMMENDS THAT EXISTING AND/OR IMPORTED TOPSOIL BE TESTED TO IDENTIFY SOIL DEFICIENCIES AND ANY SOIL AMENDMENTS NECESSARY TO ADDRESS THESE DEFICIENCIES. SOIL AMENDMENTS AND/OR FERTILIZERS SHOULD BE ADDED TO CORRECT TOPSOIL DEFICIENCIES BASED ON SOIL TESTING RESULTS.
4. TOPSOIL SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD TO RETAIN ITS STRUCTURE, AVOID COMPACTION, AND TO PREVENT EROSION AND CONTAMINATION. STRIPPED TOPSOIL MUST BE STORED IN AN AREA AWAY FROM MACHINERY AND CONSTRUCTION OPERATIONS, AND CARE MUST BE TAKEN TO PROTECT THE TOPSOIL AS A VALUABLE COMMODITY. TOPSOIL MUST NOT BE STRIPPED DURING UNDESIRABLE WORKING CONDITIONS (E.G. DURING WET WEATHER OR WHEN SOILS ARE SATURATED). TOPSOIL SHALL NOT BE STORED IN SWALES OR IN AREAS WITH POOR DRAINAGE.

SEEDING

1. ALLOWABLE SEED MIXES ARE INCLUDED IN THE CITY OF COLORADO SPRINGS STORMWATER CONSTRUCTION MANUAL. ALTERNATIVE SEED MIXES ARE ACCEPTABLE IF INCLUDED IN AN APPROVED LANDSCAPING PLAN.
2. SEED SHOULD BE DRILL-SEEDED WHENEVER POSSIBLE.
   - SEED DEPTH MUST BE ¼ TO ½ INCHES WHEN DRILL-SEEDING IS USED.
3. BROADCAST SEEDING OR HYDRO-SEEDING WITH TACKIFIER MAY BE SUBSTITUTED ON SLOPES STEEPER THAN 3:1 OR ON OTHER AREAS NOT PRACTICAL TO DRILL SEED.
   - SEEDING RATES MUST BE DOUBLED FOR BROADCAST SEEDING OR INCREASED BY 50% IF USING A BRILLION DRILL OR HYDRO-SEEDING.
   - BROADCAST SEEDING MUST BE LIGHTLY HAND-RAKED INTO THE SOIL.

MULCHING

1. MULCHING SHOULD BE COMPLETED AS SOON AS PRACTICABLE AFTER SEEDING, HOWEVER PLANTED AREAS MUST BE MULCHED NO LATER THAN 14 DAYS AFTER PLANTING.
2. MULCHING REQUIREMENTS INCLUDE:
   - HAY OR STRAW MULCH
     - ONLY CERTIFIED WEED-FREE AND CERTIFIED SEED-FREE MULCH MAY BE USED. MULCH MUST BE APPLIED AT 2 TONS/ACRE AND ADEQUATELY SECURED BY CRIMPING AND/OR TACKIFIER.
     - CRIMPING MUST NOT BE USED ON SLOPES GREATER THAN 3:1 AND MULCH FIBERS MUST BE TUCKED INTO THE SOIL TO A DEPTH OF 3 TO 4 INCHES.
     - TACKIFIER MUST BE USED IN PLACE OF CRIMPING ON SLOPES STEEPER THAN 3:1.
   - HYDRAULIC MULCHING
     - HYDRAULIC MULCHING IS AN OPTION ON STEEP SLOPES OR WHERE ACCESS IS LIMITED.
     - IF HYDRO-SEEDING IS USED, MULCHING MUST BE APPLIED AS A SEPARATE, SECOND OPERATION.
     - WOOD CELLULOSE FIBERS MIXED WITH WATER MUST BE APPLIED AT A RATE OF 2,000 TO 2,500 POUNDS/ACRE, AND TACKIFIER MUST BE APPLIED AT A RATE OF 100 POUNDS/ACRE.
   - EROSION CONTROL BLANKET
     - EROSION CONTROL BLANKET MAY BE USED IN PLACE OF TRADITIONAL MULCHING METHODS.

SM

STORMWATER ENTERPRISE — SEEDING & MULCHING

APPROVED:	CHIEF MANAGER:		
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-SM	

C:\PWWORKING\central\01\04374172\05C004.dwg, 3/16/2026 3:31:55 PM, THHICK

ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

**PRELIMINARY
NOT FOR
CONSTRUCTION OR
RECORDING**

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN DETAILS

0 1" 2"

FILENAME 05C004.DWG
SCALE AS NOTED

SHEET
05C004

CWA
Concrete Washout Area

1.0 DESCRIPTION

- Concrete washout areas consist of either an excavated pit or a prefabricated haul-away container designed to contain concrete and concrete waste water.

2.0 PURPOSE

- Used to contain concrete and concrete waste water when the chutes of concrete mixers and hoppers of concrete pumps are rinsed out after delivery.
- Concrete washout areas consolidate solids for easier disposal and prevent runoff of concrete waste water, which is alkaline and contains high levels of chromium.

3.0 IMPLEMENTATION

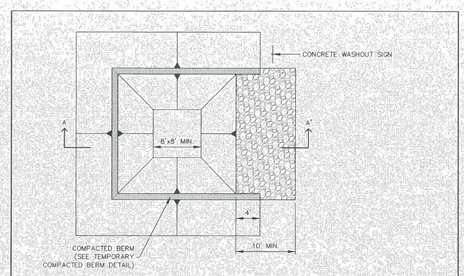
- Locate at least 50 feet away from State Waters, measured horizontally. Unlined concrete washout areas must be located at least 400 feet away from State Waters, and at least 1000 feet away from wells or drinking water sources.
- Do not locate in areas where shallow groundwater may be present, such as near natural drainages, springs, or wetlands.
- Do not place in areas subject to run-on.
- Label areas with appropriate signage.
- The addition of solvents, flocculents, or acid to wash water is prohibited.

4.0 TIMING

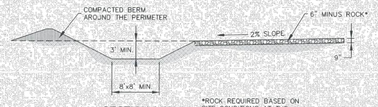
- Install prior to concrete activities.
- Remove after concrete activities have concluded.

5.0 MAINTENANCE

- Clean out facilities once they are 2/3 full, or construct new facilities for additional capacity.
- Concrete waste must be permanently disposed of off-site in an appropriate manner.



CONCRETE WASHOUT AREA PLAN



SECTION A-A'

*ROCK REQUIRED BASED ON SITE CONDITIONS AT THE DISCRETION OF THE QEC INSPECTOR

CWA

STORMWATER ENTERPRISE — CONCRETE WASHOUT AREA
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-CWA-1

INSTALLATION NOTES:
1. SEE PLAN VIEW FOR LOCATION OF CONCRETE WASHOUT AREA.
2. LOCATE AT LEAST 50' AWAY FROM STATE WATERS, MEASURED HORIZONTALLY.
3. AN IMPERMEABLE LINER (16 MIL. MINIMUM THICKNESS) IS REQUIRED IF CONCRETE WASH AREA IS LOCATED WITHIN 400' OF STATE WATERS OR 1000' OF WELLS OR DRINKING WATER SOURCES.
4. DO NOT LOCATE IN AREAS WHERE SHALLOW GROUNDWATER MAY BE PRESENT.
5. THE CONCRETE WASH AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
6. CONCRETE WASH AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8'.
7. BERM SURROUNDING SIDES AND BACK OF CONCRETE WASH AREA SHALL HAVE A MINIMUM HEIGHT OF 2 FEET.
8. CONCRETE WASH AREA ENTRANCE SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH AREA.
9. SIGNS SHALL BE PLACED AT THE CONCRETE WASH AREA.
10. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

MAINTENANCE NOTES:
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. THE CONCRETE WASH AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN THE PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF ¾ THE HEIGHT OF THE CONCRETE WASH AREA.
3. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
4. THE CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
5. PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.

CWA

STORMWATER ENTERPRISE — CONCRETE WASHOUT AREA
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-CWA-2

IP
Inlet Protection

1.0 DESCRIPTION

- Inlet protection consists of a permeable sediment barrier installed around a storm inlet.

2.0 PURPOSE

- Used to minimize the amount of sediment and debris entering a storm drainage system prior to permanent stabilization of the contributing disturbed area.
- Inlet protection slows down runoff velocity to filter runoff and to promote sedimentation prior to entry into a storm drainage system.

3.0 IMPLEMENTATION

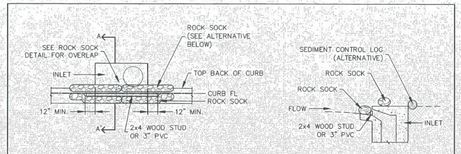
- Install inlet protection at storm sewer inlets that are operable and receiving runoff from disturbed areas during construction.
- Place inlet protection to allow the inlet to function without completely blocking flows into the inlet in a manner than causes localized flooding.
- Inlet protection is not a stand-alone control measure and should be used in conjunction with other upgradient control measures. Inlet protection in areas with a contributing drainage area of one acre or larger must be part of a treatment train.
- When selecting the type of inlet protection, consider factors such as type of inlet, traffic, anticipated flows, ability to secure the inlet protection, safety, and other site-specific conditions.

4.0 TIMING

- Install prior to land disturbing activities, or immediately after inlet installation.
- Remove and properly dispose of inlet protection after the contributing drainage area has been permanently stabilized.

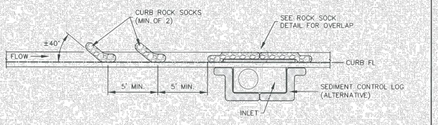
5.0 MAINTENANCE

- Remove and properly dispose of sediment when it has accumulated to 1/2 of the design depth of the inlet barrier.
- Inspect for holes or tears that can result in sediment directly entering the inlet.
- Inspect for displaced inlet protection that is no longer protecting the inlet.



CURB INLET PROTECTION PLAN

SECTION A-A'



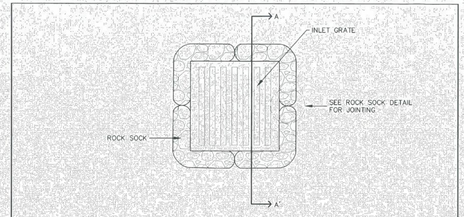
CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

INSTALLATION NOTES:
1. SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE ROCK SOCK SHALL BE APPROXIMATELY 40 DEGREES FROM THE CURB.
3. ROCK SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5' APART.
4. AT LEAST TWO CURB ROCK SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADIENT INLETS.
5. ADDITIONAL ROCK SOCKS MAY BE REQUIRED AT QEC INSPECTOR'S DISCRETION.

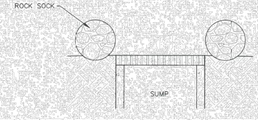
MAINTENANCE NOTES:
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA BEHIND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-1

STORMWATER ENTERPRISE — ON-GRADE INLET PROTECTION
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-IP-1



ROCK SOCK SUMP INLET PROTECTION PLAN



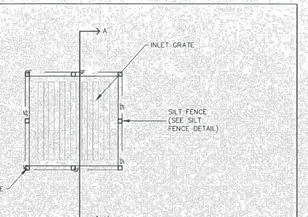
SECTION A-A'

INSTALLATION NOTES:
1. SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
2. SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.
3. CONTROL MEASURES MUST BE WRAPPED AROUND INLET AS TIGHTLY AS POSSIBLE.

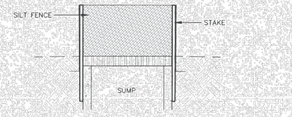
MAINTENANCE NOTES:
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AROUND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-2

STORMWATER ENTERPRISE — SUMP INLET PROTECTION
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-IP-2



SILT FENCE SUMP INLET PROTECTION PLAN



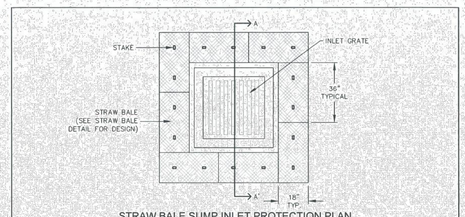
SECTION A-A'

INSTALLATION NOTES:
1. SEE SILT FENCE DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF THREE FEET.
3. SILT FENCE FABRIC SHOULD HAVE A FLOW RATE IN EXCESS OF 30 GALLONS PER MINUTE PER SQUARE YARD SO AS TO ALLOW SOME WATER FLOW AND NOT DAM THE WATER. STANDARD, LOW-FLOW SILT FENCE FABRIC WILL NOT BE ALLOWED.

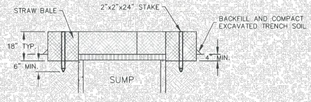
MAINTENANCE NOTES:
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. SILT FENCE MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AROUND INLET AFTER SILT FENCE IS REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-3

STORMWATER ENTERPRISE — SUMP INLET PROTECTION
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-IP-3



STRAW BALE SUMP INLET PROTECTION PLAN



SECTION A-A'

INSTALLATION NOTES:
1. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH THE ENDS OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
2. STRAW BALES SHALL CONSIST OF CERTIFIED WEED FREE STRAW OR HAY. LOCAL JURISDICTIONS MAY REQUIRE PROOF THAT BALES ARE WEED FREE.
3. STRAW BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF STRAW OR HAY AND WEIGH NOT LESS THAN 35 POUNDS.
4. STRAW BALE DIMENSIONS SHALL BE APPROXIMATELY 36"x18"x18".
5. A UNIFORM ANCHOR TRENCH SHALL BE EXCAVATED TO A DEPTH OF 4". STRAW BALES SHALL BE PACED SO THAT THE BINDING TWINE IS ENCOMPASSING THE VERTICAL SIDES OF THE BALE(S).
6. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE 2"x2"x24 (MIN.)". WOODEN STAKES SHALL BE DRIVEN A MINIMUM OF 6" INTO THE GROUND.

MAINTENANCE NOTES:
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. STRAW BALES MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AROUND INLET AFTER STRAW BALES ARE REMOVED WHEN REMOVAL IS APPROPRIATE.
5. STRAW BALES SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN OR DAMAGED BEYOND REPAIR.

IP-4

STORMWATER ENTERPRISE — SUMP INLET PROTECTION
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-IP-4

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
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PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY
NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN
DETAILS

0 1" 2"

FILENAME 05C005.DWG
SCALE AS NOTED

SHEET
05C005

RS
Rock Sock

1.0 DESCRIPTION

- A rock sock consists of gravel that has been wrapped by wire mesh or a geotextile to form an elongated cylindrical filter.

2.0 PURPOSE

- Used to slow down the velocity of runoff to filter runoff and to promote sedimentation.
- Rock socks are typically used as either perimeter control or as a part of inlet protection.

3.0 IMPLEMENTATION

- Rock socks do not require trenching or staking, and are able to be placed on hard surfaces where trenching or staking would be impossible.
- The maximum tributary drainage area per 100 liner feet of rock socks is 1/4 acre.
- When placed in a gutter adjacent to a curb, rock socks should protrude no more than two feet from the curb in order for traffic to pass safely.
- Proprietary rock socks can be used in place of wire mesh rock socks.

4.0 TIMING

- Install prior to land disturbing activities, or immediately after inlet installation.
- Remove and properly dispose of inlet protection after the contributing drainage area has been permanently stabilized.

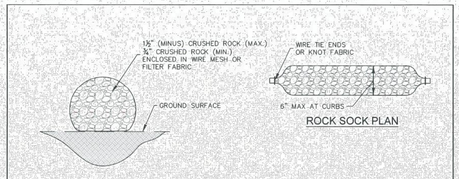
5.0 MAINTENANCE

- Remove and properly dispose of sediment when it has accumulated to 1/2 of the height of the rock sock.
- Inspect for and replace damaged or displaced rock socks.

City of Colorado Springs
Stormwater Enterprise

RS-1

Construction Control Measures
December 2020



GRADATION TABLE	
	MASS PERCENT PASSING SQUARE MESH SIEVES
	No. 4
2"	100
1½"	90-100
1"	20-55
¾"	0-15
⅜"	0-5

MATCHES SPECIFICATIONS FOR No. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M-43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES

INSTALLATION NOTES

1. CRUSHED ROCK SHALL BE BETWEEN MAX. 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET AND MIN. ¾" CRUSHED ROCK.
2. WIRE MESH SHALL HAVE OPENINGS SMALLER THAN THE SMALLEST SIZE ROCK.
3. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2' CENTERS ON ENDS OF SOCKS.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED BEYOND REPAIR.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE DEPTH REACHES ½ OF THE HEIGHT OF THE ROCK SOCK.
4. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL DISTURBED AREA IS STABILIZED.
5. PERMANENTLY STABILIZE AREA AFTER ROCK SOCKS HAVE BEEN REMOVED.

RS

STORMWATER ENTERPRISE

ROCK SOCK

APPROVED: CHIEF MANAGER

ISSUED:	REVISED:	DRAWING NO.:
10/7/19	5/19/2020	900-RS

PT
Portable Toilet

1.0 DESCRIPTION

- The portable toilet detail provides requirements for portable toilet use on construction sites.

2.0 PURPOSE

- Used to minimize the risk of pollutant migration to State Waters.

3.0 IMPLEMENTATION

- Place portable toilet a minimum of 10 feet from the back of curb or on a trailer for road projects or sites that are mostly paved.
- Anchor portable toilet to the ground, at a minimum of two opposing corners (on a diagonal) using U-shaped rebar stakes.

4.0 TIMING

- Install as needed.
- Remove prior to the end of construction. Permanently stabilize any disturbed areas associated with the installation, maintenance, and/or removal of the toilets.

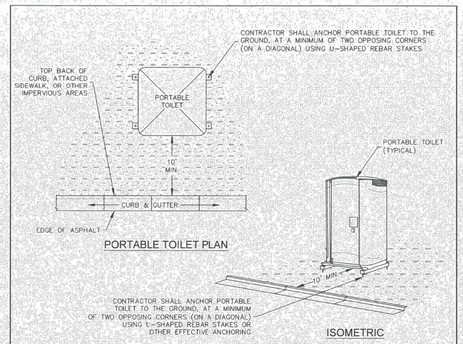
5.0 MAINTENANCE

- Portable toilets shall be serviced at the necessary intervals to eliminate the possibility of overflow.

City of Colorado Springs
Stormwater Enterprise

PT-1

Construction Control Measures
December 2020



INSTALLATION NOTES

1. PORTABLE TOILETS SHALL BE PLACED A MINIMUM OF 10 FEET BEHIND ALL CURBS, SIDEWALKS, AND OTHER IMPERVIOUS AREAS; 50 FEET FROM STORM INLETS; AND 100 FEET FROM WATERWAYS.
2. PORTABLE TOILETS IN THE RIGHT-OF-WAY ARE REQUIRED TO BE PLACED ON MOBILE TRAILERS AND MUST BE ANCHORED OR WEIGHTED DOWN. PORTABLE TOILETS MAY BE INSTALLED IN ACCORDANCE WITH NOTE #1 IN STAGING AREAS/YARDS.
3. PORTABLE TOILETS SHALL BE SECURELY ANCHORED TO THE GROUND USING U-SHAPED REBAR STAKES, OR OTHER EFFECTIVE ANCHORING.
4. ANCHORING SHALL BE POSITIONED ON AT LEAST TWO OPPOSING (DIAGONAL) CORNERS.
5. TOILET CONTAINMENT PANS MAY BE USED IN PLACE OF A TRAILER AT THE QEC INSPECTOR'S DISCRETION. TOILET CONTAINMENT PANS MUST BE ANCHORED IN PLACE AND MUST NOT BE USED WITHIN THE CITY R.O.W.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. PORTABLE TOILETS SHALL BE SERVICED AT THE NECESSARY INTERVALS TO ELIMINATE THE POSSIBILITY OF OVERFLOW.
3. WHEN THE PORTABLE TOILETS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE TOILETS MUST BE PERMANENTLY STABILIZED.

PT

PORTABLE TOILET

APPROVED: CHIEF MANAGER

ISSUED:	REVISED:	DRAWING NO.:
5/1/19	5/19/2020	900-PT

SP
Stockpile Protection

1.0 DESCRIPTION

- Perimeter control placed around stockpiles of soil and other erodible materials.

2.0 PURPOSE

- Used to avoid the migration of sediment and other materials from stockpiles.

3.0 IMPLEMENTATION

- Install perimeter control around stockpile on downgradient side.
- Stockpile perimeter controls may not be required for stockpiles on the interior portion of a construction site where other downgradient controls including perimeter control are in place.

4.0 TIMING

- Install immediately after stockpile has formed or limits are known, whichever occurs first.
- Remove stockpile protection after the stockpile has been removed.

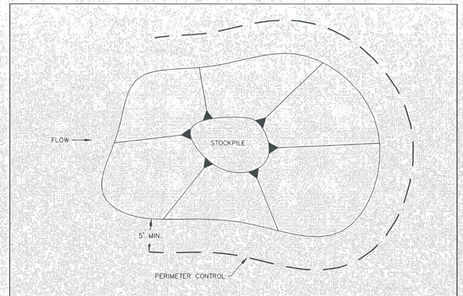
5.0 MAINTENANCE

- Remove and properly dispose of sediment according to the perimeter control detail.
- If perimeter controls must be moved to access stockpile, replace perimeter controls by the end of the work day.
- Inspect for and repair and/or replace perimeter controls as needed to maintain functionality.

City of Colorado Springs
Stormwater Enterprise

SP-1

Construction Control Measures
December 2020



INSTALLATION NOTES

1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNGRADIENT SIDE. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS, AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
2. FOR STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.

SP

STORMWATER ENTERPRISE

STOCKPILE PROTECTION

APPROVED: CHIEF MANAGER

ISSUED:	REVISED:	DRAWING NO.:
10/7/19	5/19/2020	900-SP

VTC
Vehicle Tracking Control

1.0 DESCRIPTION

- Vehicle tracking control consists of a pad of coarse stone aggregate placed on a geotextile filter fabric.

2.0 PURPOSE

- Used to reduce the tracking of sediment onto roadways by construction vehicles.
- As vehicles drive over the VTC device, mud and sediment is removed from the tires.

3.0 IMPLEMENTATION

- Locate at construction entrance/exit.
- Organize site to ensure that all vehicles use the vehicle tracking control device.
- Where possible, grade VTC device to drain to construction site rather than to street.
- Proprietary VTC devices may be used if approved as an alternative Construction Control Measure.

4.0 TIMING

- Install prior to land disturbing activities.
- Remove when the potential for sediment migration onto adjacent roadways no longer exists (typically after site has been stabilized). Permanently stabilized area after vehicle tracking control is removed.

5.0 MAINTENANCE

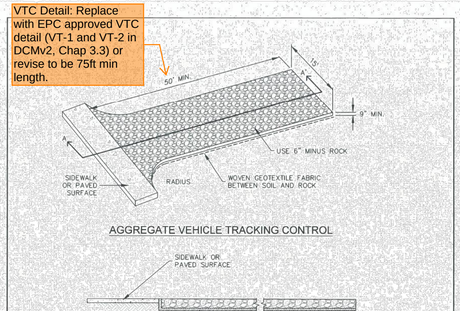
- Roughen, replace, and/or add rock as needed to maintain a consistent depth and to prevent sediment tracking onto adjacent street.
- Sediment tracked onto the adjacent road shall be removed daily, by sweeping or shoveling, and never washed down storm drains.

City of Colorado Springs
Stormwater Enterprise

VTC-1

Construction Control Measures
December 2020

VTC Detail: Replace with EPC approved VTC detail (VT-1 and VT-2 in DCMv2, Chap 3.3) or revise to be 75ft min length.



INSTALLATION NOTES

1. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHOULD BE LOCATED AT ALL POINTS WHERE VEHICLES EXIT THE CONSTRUCTION SITE TO ADJACENT ROADWAY.
2. STABILIZED CONSTRUCTION ENTRANCE/EXITS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. RADIUS MUST BE ADEQUATE FOR INTENDED CONSTRUCTION VEHICLE TURNING.
4. ROCK SHOULD CONSIST OF 6" MINUS ROCK.
5. INSTALL CONSTRUCTION FENCE ON BOTH SIDES OF VEHICLE TRACKING CONTROL PAD WHEN NEEDED OR REQUIRED BY INSPECTOR.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. SEDIMENT TRACKED ONTO THE ADJACENT ROAD SHALL BE REMOVED DAILY, BY SWEEPING OR SHOVELING, AND NEVER WASHED DOWN STORM DRAINS.
3. ROUGHEN, REPLACE, AND/OR ADD ROCK AS NEEDED TO MAINTAIN CONSISTENT DEPTH AND TO PREVENT SEDIMENT TRACKING ONTO ADJACENT STREET.
4. PERMANENTLY STABILIZE AREA AFTER VEHICLE TRACKING CONTROL IS REMOVED.

VTC

STORMWATER ENTERPRISE

VEHICLE TRACKING CONTROL

APPROVED: CHIEF MANAGER

ISSUED:	REVISED:	DRAWING NO.:
10/7/19	5/19/2020	900-VTC

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY
NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN
DETAILS

0 1" 2"

FILENAME 05C006.DWG
SCALE AS NOTED

SHEET
05C006

SCL
Sediment Control Log

1.0 DESCRIPTION

- A sediment control log is a temporary sediment barrier consisting of a linear roll of natural materials such as straw, compost, excelsior or coconut fiber.

2.0 PURPOSE

- Used to intercept sheet flow prior to leaving a construction site.
- May be used around the perimeter of a construction site.
- Placed on long slopes to slow down flows.

3.0 IMPLEMENTATION

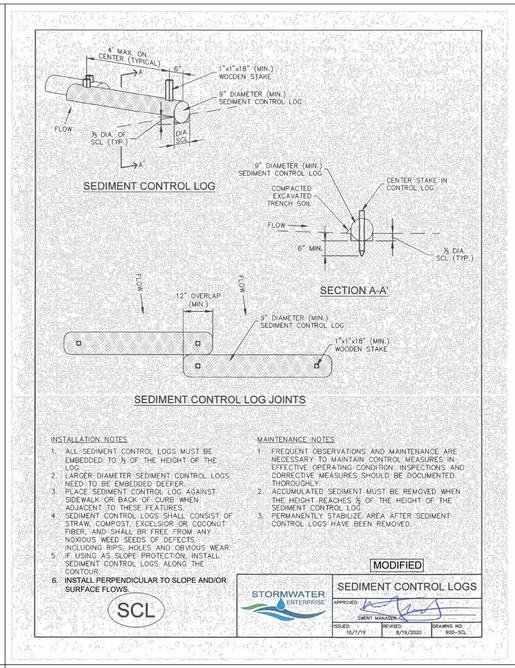
- Install sediment control logs to intercept sheet flow runoff from disturbed areas.
- Install sediment control logs along the contour of slopes or in a manner to avoid creating concentrated flow.
- Place sediment control logs against sidewalk or back of curb when adjacent to these features.
- The maximum tributary drainage area per 100 liner feet of sediment control logs is 1/4 acre.
- Sediment control logs shall consist of straw, compost, excelsior or coconut fiber, and shall be free from any noxious weed seeds or defects.

4.0 TIMING

- Install prior to land disturbing activities.
- Remove sediment control logs after the upstream area has been permanently stabilized.

5.0 MAINTENANCE

- Remove and properly dispose of sediment when it has accumulated to 1/2 of the height of the exposed sediment control log.
- Inspect for and repair or replace damaged sediment control logs.



INSTALLATION NOTES

1. ALL SEDIMENT CONTROL LOGS MUST BE EMBEDDED TO ½ OF THE HEIGHT OF THE LOG.
2. LARGER DIAMETER SEDIMENT CONTROL LOGS NEED TO BE EMBEDDED DEEPER.
3. PLACE SEDIMENT CONTROL LOG AGAINST SIDEWALK OR BACK OF CURB WHEN ADJACENT TO THESE FEATURES.
4. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE FROM ANY NOXIOUS WEED SEEDS OF DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
5. IF USING AS SLOPE PROTECTION, INSTALL SEDIMENT CONTROL LOGS ALONG THE CONTOUR.
6. **INSTALL PERPENDICULAR TO SLOPE AND/OR SURFACE FLOWS.**

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
3. PERMANENTLY STABILIZE AREA AFTER SEDIMENT CONTROL LOGS HAVE BEEN REMOVED.

MODIFIED

SCL

STORMWATER ENTERPRISE | SEDIMENT CONTROL LOGS
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-SCL

CD
Check Dam

1.0 DESCRIPTION

- Check dams are small temporary rock dams constructed across a swale or drainage ditch.

2.0 PURPOSE

- Used to slow down the velocity of concentrated flow to limit erosion and to promote sedimentation.
- Placed in areas of concentrated flow, such as a ditch or swale.

3.0 IMPLEMENTATION

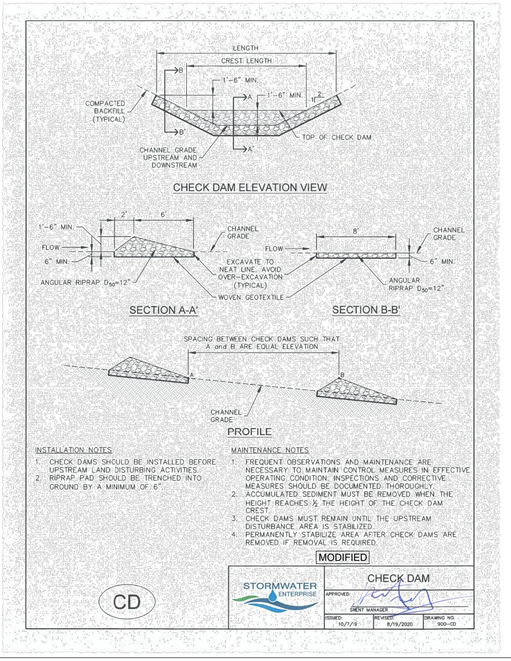
- Place check dams at regular intervals perpendicular to the direction of flow.
- Use check dams on mild or moderately steep slopes.
- Install wide enough check dams to reach from bank to bank of the ditch or swale.
- In general, the maximum spacing between check dams should be such that the toe of the upstream check dam is at the same elevation as the top of the downstream check dam.
- During installation, place rock mechanically or by hand.

4.0 TIMING

- Install prior to land disturbing activities.
- Remove after surrounding area has been permanently stabilized, or immediately prior to installation of a non-erodible lining. Permanently stabilize bare areas caused by check dams after removal.

5.0 MAINTENANCE

- Remove and properly dispose of sediment when it has accumulated to 1/2 of the height of the check dam crest.
- Replace missing rocks causing voids in the check dam.
- Inspect for erosion along the ends of check dams and repair when necessary.



INSTALLATION NOTES

1. CHECK DAMS SHOULD BE INSTALLED BEFORE UPSTREAM LAND DISTURBING ACTIVITIES.
2. RIPRAP PAD SHOULD BE TRENCHED INTO GROUND BY A MINIMUM OF 6".

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES ½ THE HEIGHT OF THE CHECK DAM CREST.
3. CHECK DAMS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AFTER CHECK DAMS ARE REMOVED, IF REMOVAL IS REQUIRED.

MODIFIED

CD

STORMWATER ENTERPRISE | CHECK DAM
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-CD

SPACING TABLE	
SLOPE	SPACING
0.50%	302 LF
1.00%	152 LF
2.00%	77 LF
3.00%	52 LF
4.00%	39 LF
5.00%	32 LF
6.00%	27 LF
8.00%	21 LF
10.00%	17 LF
20.00%	9 LF

CIP
Culvert Inlet Protection

1.0 DESCRIPTION

- Culvert inlet protection consists of a permeable sediment barrier installed upstream of a flared end section entrance to a culvert or storm sewer.

2.0 PURPOSE

- Used to prevent sediment and debris from entering a culvert or storm drainage system prior to permanent stabilization of the contributing disturbed area.
- Culvert inlet protection slows down runoff velocity to filter runoff and to promote sedimentation prior to entry into a culvert or storm drainage system.

3.0 IMPLEMENTATION

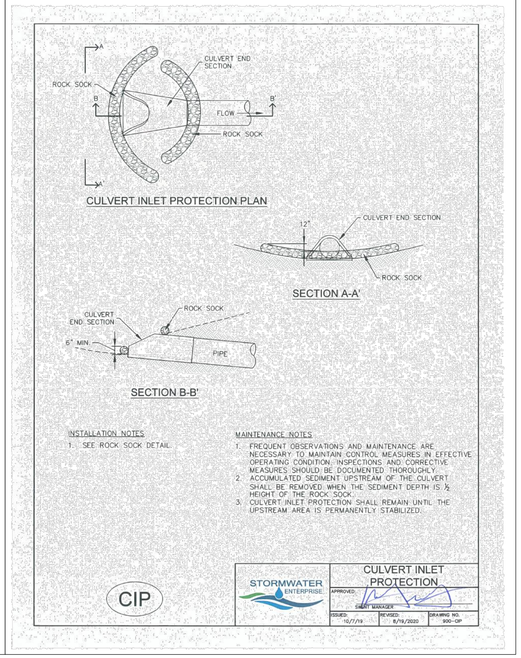
- Install culvert inlet protection at flared end section inlets to culverts and storm sewers that are operable and receiving runoff from disturbed areas during construction.
- Culvert inlet protection is not a stand-alone control measure and should be used in conjunction with other upgradient control measures. Culvert inlet protection with a contributing drainage area including of one acre or more of disturbed area must be part of a treatment train.

4.0 TIMING

- Install prior to land disturbing activities, or immediately after pipe installation.
- Remove and properly dispose of culvert inlet protection after the contributing drainage area has been permanently stabilized.

5.0 MAINTENANCE

- Remove and properly dispose of sediment when it has accumulated to 1/2 of the height of the rock sock.
- Inspect for displaced rock socks that are no longer protecting the inlet.



INSTALLATION NOTES

1. SEE ROCK SOCK DETAIL.

MAINTENANCE NOTES

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS ½ HEIGHT OF THE ROCK SOCK.
3. CULVERT INLET PROTECTION SHALL REMAIN UNTIL THE UPSTREAM AREA IS PERMANENTLY STABILIZED.

CIP

STORMWATER ENTERPRISE | CULVERT INLET PROTECTION
APPROVED: CMENT MANAGER
ISSUED: 10/7/19 | REVISED: 8/19/2020 | DRAWING NO. 900-CIP

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
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PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY
NOT FOR
CONSTRUCTION OR
RECORDING

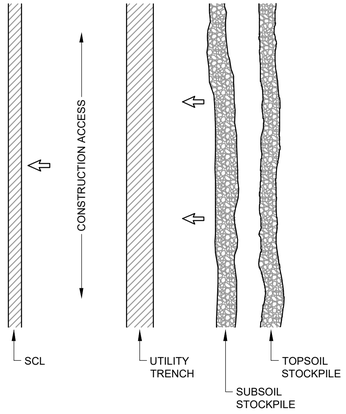
COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN DETAILS

0 1" 2"

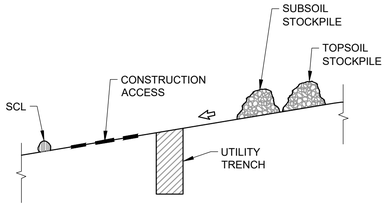
FILENAME 05C007.DWG
SCALE AS NOTED

SHEET
05C007



PLAN VIEW
NO SCALE

*CONSTRUCTION ACCESS AND STOCKPILE LOCATIONS MAY BE SWITCHED



CROSS SECTION
NO SCALE

*CONSTRUCTION ACCESS AND STOCKPILE LOCATIONS MAY BE SWITCHED

DESCRIPTION:

CONTROL MEASURE(S) (CM) FOR OPEN TRENCHING WITHIN AN UNPAVED SURFACE. THIS MAY BE A DIRT, UNVEGETATED OPEN AREA OR DIRT AND GRAVEL MIXED AREA TO BE RESTORED TO DIRT OR VEGETATED AREA.

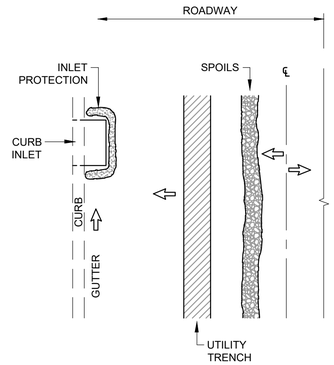
DESIGN AND INSTALLATION:

1. INSTALL DOWN-GRADIENT CMs PRIOR TO CONSTRUCTION AT THE SITE. ABOVE GROUND VEGETATION MAY BE CLEARED PRIOR TO CM INSTALLATION.
2. EXCAVATE BY DOUBLE DITCH METHODS SEPARATING TOPSOIL FROM SUBSOIL AND PLACING IN TWO BERMS ALONG TRENCH.
3. IF SPOILS ARE TO BE PLACED UP-GRADIENT OF TRENCH, TRENCH ACTS AS DOWN-GRADIENT CM. DOWN-GRADIENT LINEAR CMs ARE REQUIRED FOR ACCESS DISTURBANCES.
4. CONSTRUCTION ACCESS AND SPOIL BERMS AND CONSTRUCTION ACCESS TO BE LOCATED ON OPPOSITE SIDES OF THE TRENCH SHOWN UNLESS CONDITIONS RENDER IMPOSSIBLE TO DO SO.
5. TRENCH TO BE BACKFILLED WITH TOPSOIL PLACED LAST AND SURFACE ROUGHENED IN ANTICIPATION OF SEED AND MULCH APPLICATION, UNLESS RESTORATION INCLUDES RETURNING TO DIRT OR GRAVEL AREA.
8. DOWN-GRADIENT CMs MAY BE REMOVED ONCE SURFACE ROUGHENING HAS OCCURRED AND PRIOR TO SEED AND MULCH UNLESS SIDE-SLOPES ALLOW EROSION OF EXPOSED/ SURFACE ROUGHENED SOIL.

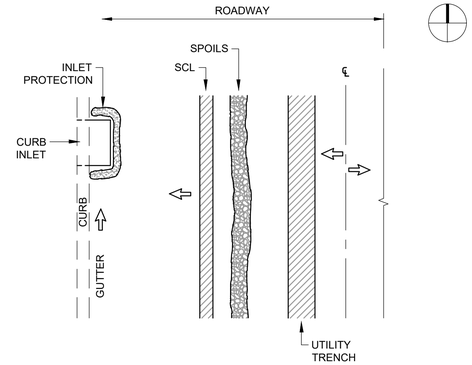
MAINTENANCE:

MAINTAIN CMs PER SCL OF APPROPRIATE CM TYPE.

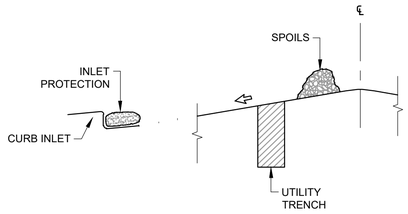
UNPAVED/VEGETATED AREA
NO SCALE



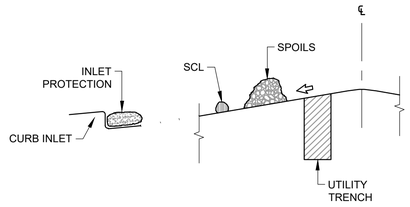
PLAN VIEW, UP-GRADIENT SPOILS
NO SCALE



PLAN VIEW, DOWN-GRADIENT SPOILS
NO SCALE



CROSS SECTION, UP-GRADIENT SPOILS
NO SCALE



CROSS SECTION, DOWN-GRADIENT SPOILS
NO SCALE

DESCRIPTION:

CONTROL MEASURE(S) (CM) FOR OPEN TRENCHING WITHIN A PAVED SURFACE. THIS MAY BE ASPHALT OR CONCRETE.

DESIGN AND INSTALLATION:

1. INSTALL DOWN-GRADIENT INLET PROTECTION AND GUTTER CMs PRIOR TO SAW CUTTING, PAVEMENT CUTS AND EXCAVATION SPOILS ARE RECOMMENDED TO BE IMMEDIATELY REMOVED FOR OFF-SITE DISPOSAL. IN THIS EVENT, NO DOWN-GRADIENT LINEAR CM IS REQUIRED. ROCK LOG (OR LIKE) IN GUTTER AND INLET PROTECTION IS STILL REQUIRED.
2. IF CUT AND EXCAVATION SPOILS ARE NOT IMMEDIATELY HAULED OFF-SITE, PLACE SPOIL PILE UP-GRADIENT OF TRENCH AS PRACTICABLE. TRENCH ACTS AS DOWN-GRADIENT CM.
3. IF SPOILS ARE TO BE PLACED DOWN-GRADIENT OF TRENCH, INSTALL WEIGHTED SEDIMENT CONTROL LOG BETWEEN SPOILS AND GUTTER.
4. INLET PROTECTION AND GUTTER CMs SHOULD BE INSTALLED DOWN-GRADIENT OF CONSTRUCTION ON BOTH SIDES OF ROAD IN AREAS WHERE THE CONSTRUCTION ACTIVITY EXTENDS TO BOTH SIDES OF THE ROAD CROWN.
5. BACKFILL WITH FLOWABLE FILL REQUIRE A CONCRETE WASHOUT WHEREVER WASHOUT OCCURS.
6. SITE IS STABILIZED UPON PATCH/RESTORATION OF PAVEMENT AT WHICH TIME CMs MAY BE REMOVED.

MAINTENANCE:

MAINTAIN CMs PER SCL OF APPROPRIATE CM TYPE.

PAVED AREA WITH CURB/GUTTER
NO SCALE

A
-
OPEN TRENCH CM
NO SCALE

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
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PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

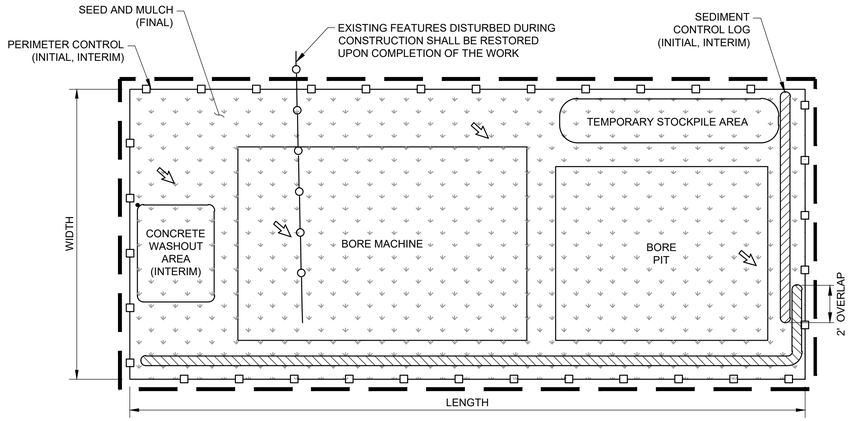
COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN
DETAILS

0 1" 2"

FILENAME 05C008.DWG
SCALE AS NOTED

SHEET
05C008



UNPAVED/VEGETATED AREA

NO SCALE

DESCRIPTION:

CONTROL MEASURE(S) (CM) FOR DIRECTIONAL BORE PITS WITHIN AN UNPAVED AREA. THIS MAY BE A VEGETATED AREA, UNVEGETATED OPEN AREA, OR DIRT AND GRAVEL MIXED AREA TO BE RESTORED WITH DIRT.

DESIGN AND INSTALLATION:

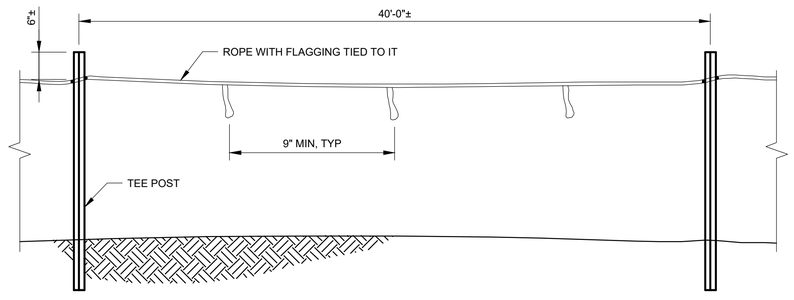
1. INSTALL DOWN-GRADIENT CMs PRIOR TO CONSTRUCTION AT THE SITE. ABOVE GROUND VEGETATION MAY BE CLEARED PRIOR TO CM INSTALLATION.
2. PERFORM GRADING AS REQUIRED TO ACHIEVE LEVEL SURFACE.
3. EXCAVATE BY DOUBLE DITCH METHODS SEPARATING TOPSOIL FROM SUBSOIL, CREATING TWO STOCKPILES.
4. DIMENSIONS AND ARRANGEMENT SHOWN ARE APPROXIMATE AND MAY VARY BASED ON WORK REQUIREMENTS AND/OR SITE CHARACTERISTICS. PLACE SPOIL PILES UP-GRADIENT OF BORE AS PRACTICABLE. PIT ACTS AS DOWN-GRADIENT CM.
5. CONSTRUCTION ACCESS SHOULD BE FROM UP-GRADIENT SIDE OF WORK AREA.
6. INITIAL BORE PIT BACKFILL WITH FLOWABLE FILL REQUIRES A CONCRETE WASHOUT AS SHOWN. SEE CWA DETAIL FOR CMs.
7. REMAINING DEPTH OF BORE PIT TO BE BACKFILLED WITH SOIL. PREPARE SURFACE IN ACCORDANCE WITH SPECIFICATION 31 22 19 AND 32 92 00 IN ANTICIPATION OF SEED AND MULCH APPLICATION, UNLESS RESTORATION INCLUDES RETURNING TO DIRT OR GRAVEL AREA.
8. DOWN-GRADIENT CMs MAY BE REMOVED ONCE SURFACE ROUGHENING HAS OCCURRED AND PRIOR TO SEED AND MULCH UNLESS SIDE-SLOPES ALLOW EROSION OF EXPOSED/ SURFACE ROUGHENED SOIL.

MAINTENANCE:

MAINTAIN CMs PER APPROPRIATE CM TYPE. SEE SWMP REPORT FOR ACTIONS TO BE TAKEN IN EVENT OF INADVERTENT FLUID RELEASE.

1 - BORE PIT CM

NO SCALE



GENERAL PRACTICES:

1. SEE STORM WATER MANAGEMENT PLANS FOR LOCATIONS OF BOUNDARY FENCING.
2. LIMITS OF DISTURBANCE, EASEMENTS, WETLANDS, AND WILDLIFE AREAS WILL BE STAKED OUT BY SURVEYOR BEFORE PLACING BOUNDARY FENCING.
3. ALL EQUIPMENT USED TO INSTALL FENCING SHALL BE KEPT ON THE CONSTRUCTION SIDE OF PROJECT.
4. VEGETATIVE BUFFERS SHALL BE PRESERVED WHENEVER POSSIBLE.
5. BOUNDARY FENCING CAN BE REMOVED PRIOR TO FINAL STABILIZATION AND PERMANENT SEEDING.

2 - CONSTRUCTION BOUNDARY FENCING CM

NO SCALE

ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
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QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

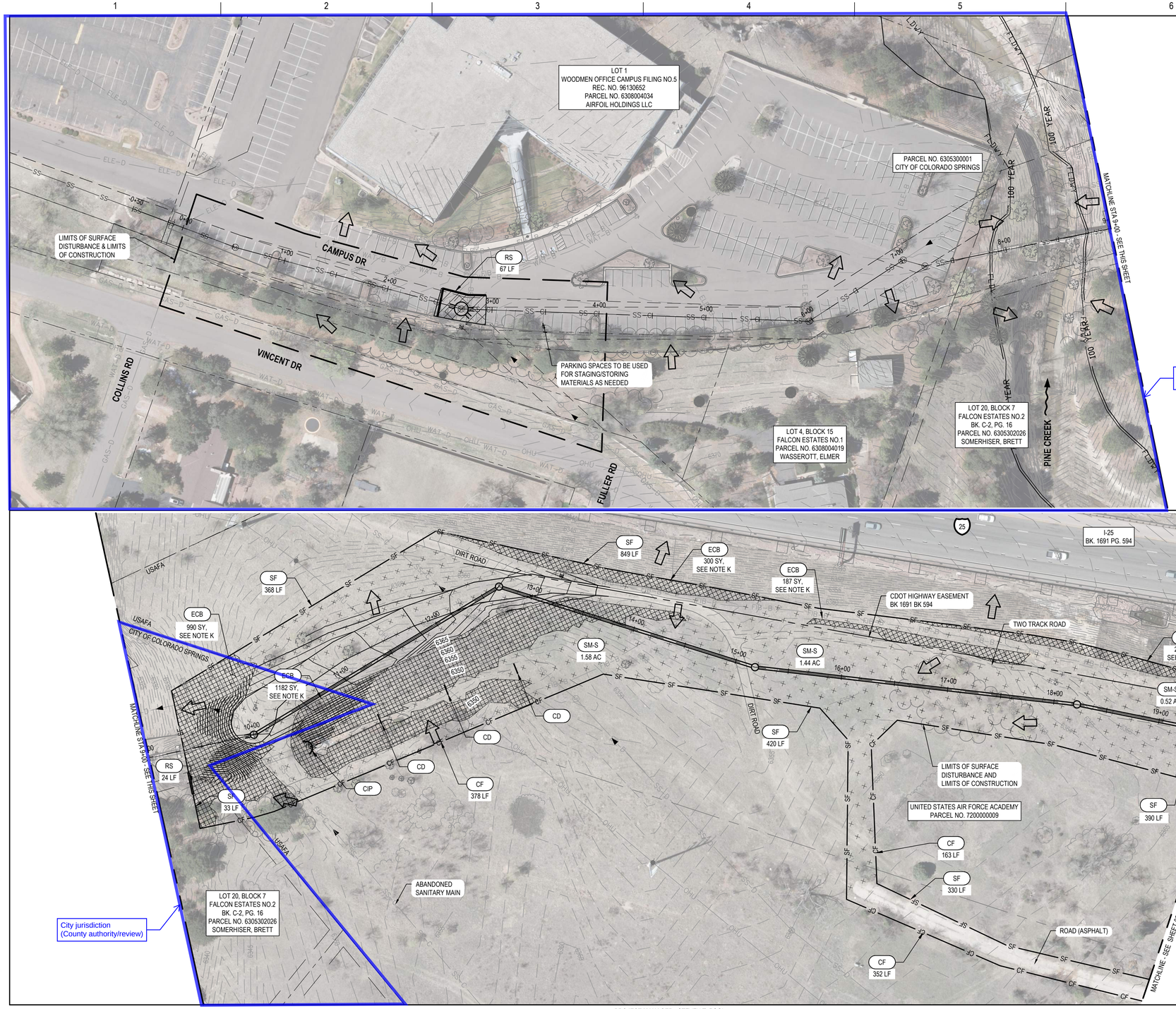
SWMP/GEC STORM WATER MANAGEMENT PLAN DETAILS

0 1" 2"

FILENAME 05C009.DWG

SCALE AS NOTED

SHEET 05C009



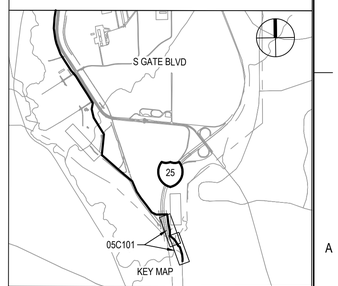
GENERAL NOTES

A. STAGING AREA TO BE DETERMINED BY THE CONTRACTOR.

K. FOR EROSION CONTROL BLANKETS, USE PRODUCTS CORRESPONDING TO APPROPRIATE SLOPE:
- 4:1 SLOPES: USE NETLESS ROLLED EROSION CONTROL BLANKETS
- 3:1 SLOPES: USE SINGLE-NET EROSION CONTROL BLANKETS AND OPEN WEAVE TEXTILES
- 2:1 SLOPES: DOUBLE-NET EROSION CONTROL BLANKET

(CCM) LEGEND:

KEY	TITLE
ECB	EROSION CONTROL BLANKET
IP-2	SUMP INLET PROTECTION
CD	CHECK DAM
RS	ROCK SOCK PROTECTION
SF	SILT FENCE
CF	CONSTRUCTION BOUNDARY FENCE
CIP	CULVERT INLET PROTECTION
ECB	EROSION CONTROL BLANKET
SM-R	RIPARIAN/TRANSITIONAL SEED MIX
SM-L	LOAMY/CLAYEY FOOTHILLS MIX
SM-M	MOUNTAIN MIX
SM-S	SANDY FOOTHILLS MIX
	STAGING AREA
VTC	VEHICLE TRACKING CONTROL
	FLOW DIRECTION



SCALE IN FEET: 50 0 50 100

HORIZONTAL SCALE

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

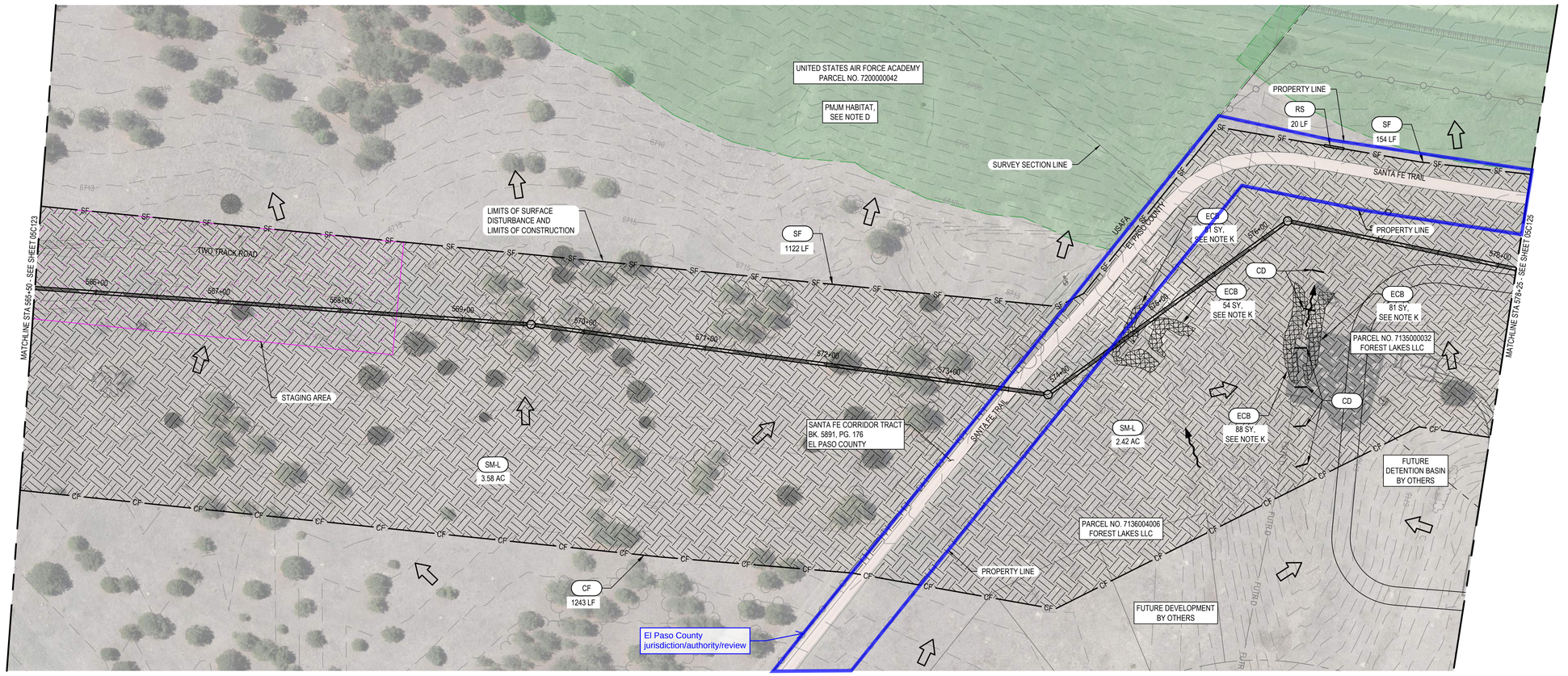
COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN
STA 00+00 TO STA 20+50

0 1" 2"

FILENAME 05C101.DWG
SCALE AS NOTED

SHEET 05C101



GENERAL NOTES

A. SEE SHEET 00G011 FOR SURVEY CONTROL.

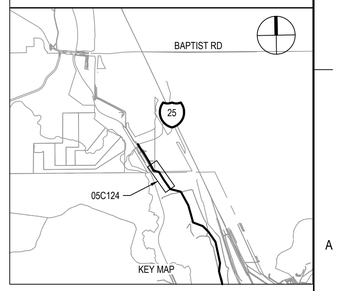
D. SEE SPECIFICATIONS 01 14 00 AND 01 35 43 FOR WORK RESTRICTIONS WITHIN HATCHED AREAS.

K. FOR EROSION CONTROL BLANKETS, USE PRODUCTS CORRESPONDING TO APPROPRIATE SLOPE:
- 4:1 SLOPES: USE NETLESS ROLLED EROSION CONTROL BLANKETS
- 3:1 SLOPES: USE SINGLE-NET EROSION CONTROL BLANKETS AND OPEN WEAVE TEXTILES
- 2:1 SLOPES: DOUBLE-NET EROSION CONTROL BLANKET

L. THIS UTILITY WORK MAY OCCUR IN TANDEM WITH CONSTRUCTION ON THE SANTA FE MEADOWS DEVELOPMENT SITE (BY OTHERS). CONTROL MEASURES SHOWN ARE ONLY APPLICABLE TO UTILITY WORK WITHIN THE NMCI LIMITS OF DISTURBANCE. IF APPLICABLE, NMCI CONTRACTOR TO COORDINATE WITH DEVELOPMENT CONTRACTOR FOR CONSTRUCTION ACCESS ROUTES, CONTROL MEASURES, AND SURFACE STABILIZATION PRACTICES.

(CCM) LEGEND:

KEY		TITLE
ECB		EROSION CONTROL BLANKET
IP-2		SUMP INLET PROTECTION
CD		CHECK DAM
RS		ROCK SOCK PROTECTION
SF		SILT FENCE
CF		CONSTRUCTION BOUNDARY FENCE
CIP		CULVERT INLET PROTECTION
ECB	ECB	EROSION CONTROL BLANKET
SM-R	SM-R	RIPARIAN/TRANSITIONAL SEED MIX
SM-L	SM-L	LOAMY/CLAYEY FOOTHILLS MIX
SM-M	SM-M	MOUNTAIN MIX
SM-S	SM-S	SANDY FOOTHILLS MIX
		STAGING AREA
VTC	VTC	VEHICLE TRACKING CONTROL
		FLOW DIRECTION



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SCALE IN FEET
HORIZONTAL SCALE

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ISSUE	DATE	DESCRIPTION
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C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

**PRELIMINARY
NOT FOR
CONSTRUCTION OR
RECORDING**

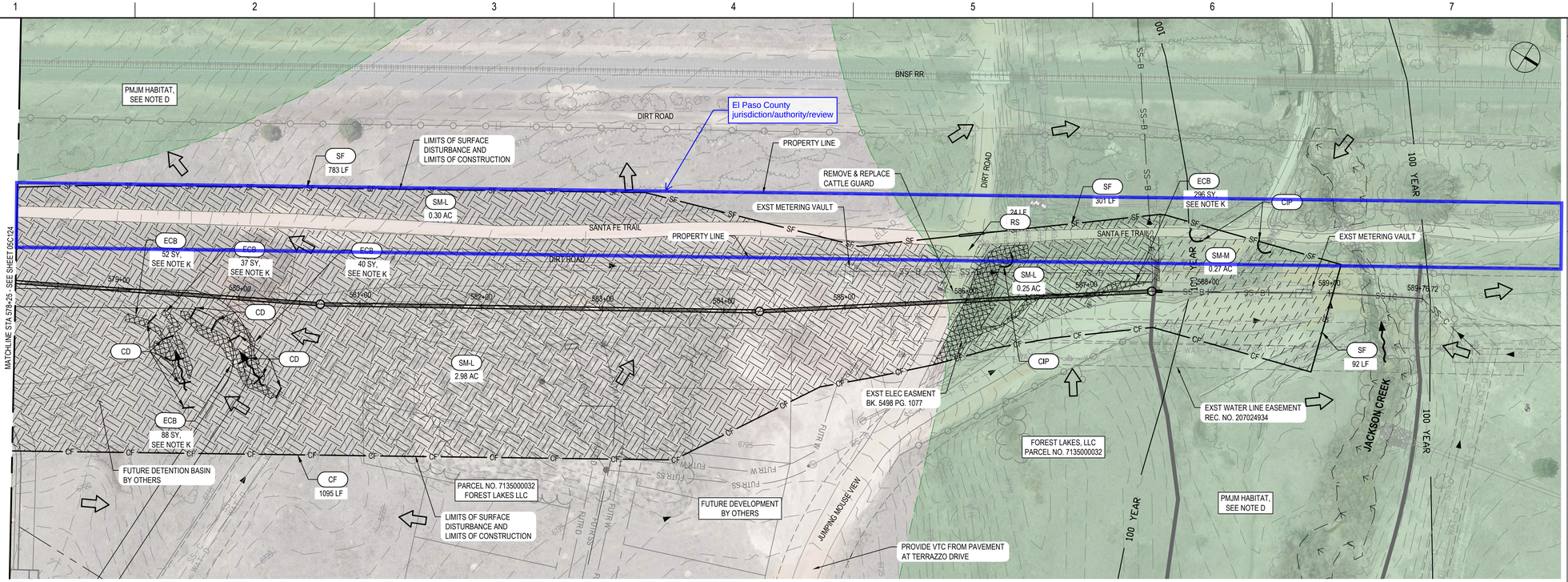
COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN
STA 565+50 TO STA 578+25

0 1" 2"

FILENAME 05C124.DWG
SCALE AS NOTED

SHEET
05C124



GENERAL NOTES

A. SEE SHEET 00G011 FOR SURVEY CONTROL.

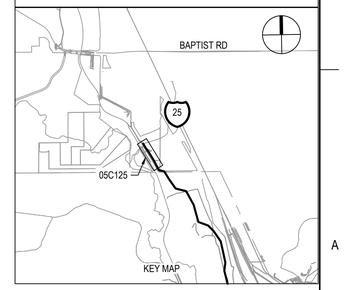
D. SEE SPECIFICATIONS 01 14 00 AND 01 35 43 FOR WORK RESTRICTIONS WITHIN HATCHED AREAS.

K. FOR EROSION CONTROL BLANKETS, USE PRODUCTS CORRESPONDING TO APPROPRIATE SLOPE:
- 4:1 SLOPES: USE NETLESS ROLLED EROSION CONTROL BLANKETS
- 3:1 SLOPES: USE SINGLE-NET EROSION CONTROL BLANKETS AND OPEN WEAVE TEXTILES
- 2:1 SLOPES: DOUBLE-NET EROSION CONTROL BLANKET

L. THIS UTILITY WORK MAY OCCUR IN TANDEM WITH CONSTRUCTION ON THE SANTA FE MEADOWS DEVELOPMENT SITE (BY OTHERS). CONTROL MEASURES SHOWN ARE ONLY APPLICABLE TO UTILITY WORK WITHIN THE NMCI LIMITS OF DISTURBANCE. IF APPLICABLE, NMCI CONTRACTOR TO COORDINATE WITH DEVELOPMENT CONTRACTOR FOR CONSTRUCTION ACCESS ROUTES, CONTROL MEASURES, AND SURFACE STABILIZATION PRACTICES.

(CCM) LEGEND:

KEY	TITLE
ECB	EROSION CONTROL BLANKET
IP-2	SUMP INLET PROTECTION
CD	CHECK DAM
RS	ROCK SOCK PROTECTION
SF	SILT FENCE
CF	CONSTRUCTION BOUNDARY FENCE
CIP	CULVERT INLET PROTECTION
ECB	EROSION CONTROL BLANKET
SM-R	RIPARIAN/TRANSITIONAL SEED MIX
SM-L	LOAMY/CLAYEY FOOTHILLS MIX
SM-M	MOUNTAIN MIX
SM-S	SANDY FOOTHILLS MIX
	STAGING AREA
VTC	VEHICLE TRACKING CONTROL
	FLOW DIRECTION



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SCALE IN FEET
HORIZONTAL SCALE

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC STORM WATER MANAGEMENT PLAN STA 578+25 TO STA 587+62.67

0 1" 2"

FILENAME 05C125.DWG
SCALE AS NOTED

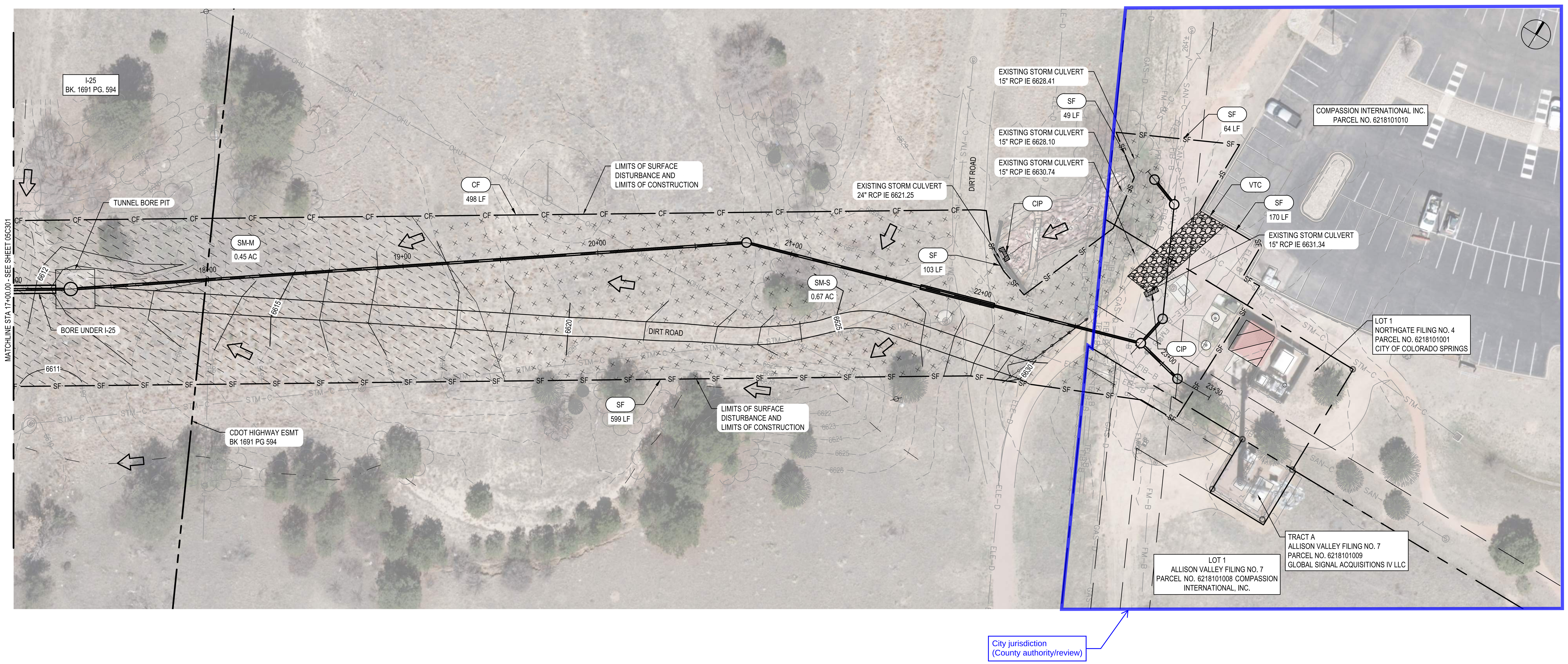
SHEET 05C125

GENERAL NOTES

A. STAGING AREA TO BE DETERMINED BY THE CONTRACTOR.

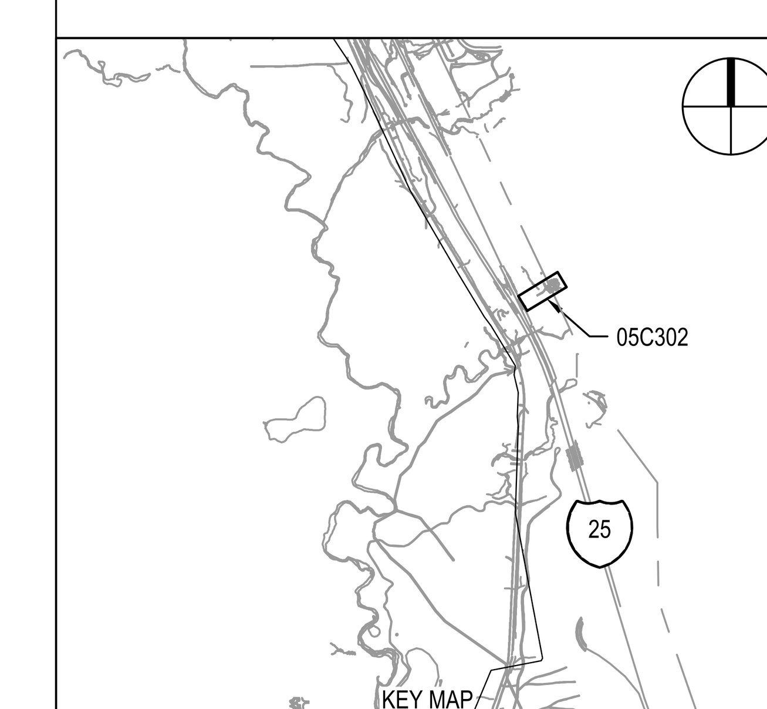
K. FOR EROSION CONTROL BLANKETS, USE PRODUCTS CORRESPONDING TO APPROPRIATE SLOPE:

-4:1 SLOPES - USE NETLESS ROLLED EROSION CONTROL BLANKETS
-3:1 SLOPES - USE SINGLE-NET EROSION CONTROL BLANKETS AND OPEN WEAVE TEXTILES
-2:1 SLOPES - USE DOUBLE-NET EROSION CONTROL BLANKET



(CCM) LEGEND:

KEY	TITLE
ECB	EROSION CONTROL BLANKET
IP-2	SUMP INLET PROTECTION
CD	CHECK DAM
RS	ROCK SOCK PROTECTION
SF	SILT FENCE
CF	CONSTRUCTION BOUNDARY FENCE
CIP	CULVERT INLET PROTECTION
ECB	EROSION CONTROL BLANKET
SM-R	RIPARIAN/TRANSITIONAL SEED MIX
SM-L	LOAMY/CLAYEY FOOTHILLS MIX
SM-M	MOUNTAIN MIX
SM-S	SANDY FOOTHILLS MIX
	STAGING AREA
VTC	VEHICLE TRACKING CONTROL
	FLOW DIRECTION



30 0 30 60
SCALE IN FEET
HORIZONTAL SCALE

Dewberry
Dewberry Engineers Inc.

HDR

ISSUE	DATE	DESCRIPTION
C	03/2026	100% DESIGN REVIEW
B	11/2025	90% DESIGN REVIEW
A	07/2025	60% DESIGN REVIEW

PROJECT MANAGER	E. DESOUZA
PROJECT ENGINEER	P. HOOD
QUALITY CONTROL	M. GOSSETT
DRAFTER	J. JENKINS
PROJECT NUMBER	50180675

PRELIMINARY
NOT FOR
CONSTRUCTION OR
RECORDING

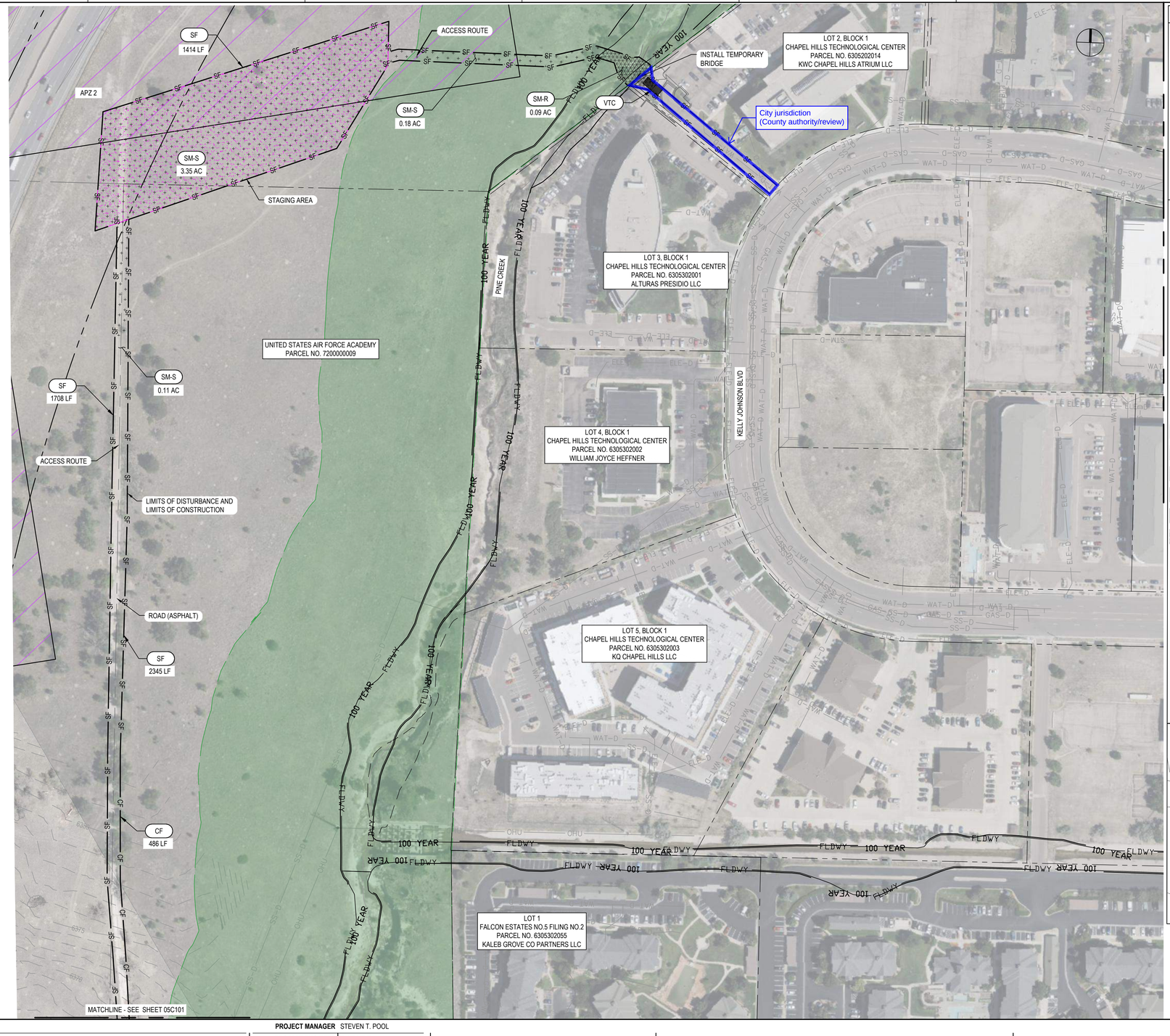
COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN
STA 17+00 TO STA 23+30

0 1" 2"

FILENAME 05C302.DWG
SCALE AS NOTED

SHEET
05C302



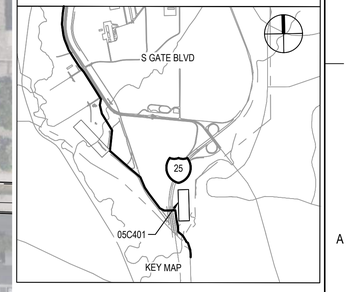
GENERAL NOTES

A. SEE SHEET 00G011 FOR SURVEY CONTROL.

D. SEE SPECIFICATIONS 01 14 00 AND 01 35 43 FOR WORK RESTRICTIONS WITHIN HATCHED AREAS.

(CCM) LEGEND:

KEY		TITLE
ECB		EROSION CONTROL BLANKET
IP-2		SUMP INLET PROTECTION
CD		CHECK DAM
RS		ROCK SOCK PROTECTION
SF		SILT FENCE
CF		CONSTRUCTION BOUNDARY FENCE
CIP		CULVERT INLET PROTECTION
ECB	ECB	EROSION CONTROL BLANKET
SM-R	SM-R	RIPARIAN/TRANSITIONAL SEED MIX
SM-L	SM-L	LOAMY/CLAYEY FOOTHILLS MIX
SM-M	SM-M	MOUNTAIN MIX
SM-S	SM-S	SANDY FOOTHILLS MIX
		STAGING AREA
VTC	VTC	VEHICLE TRACKING CONTROL
		FLOW DIRECTION



100 0 100 200
SCALE IN FEET

HORIZONTAL SCALE

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ISSUE	DATE	DESCRIPTION
D	03/2026	100% DESIGN REVIEW
C	11/2025	90% DESIGN REVIEW
B	07/2025	60% DESIGN REVIEW
A	12/2024	30% DESIGN REVIEW

PROJECT MANAGER	STEVEN T. POOL
PROJECT ENGINEER	R. KEATLEY
QUALITY CONTROL	M. GOSSETT
DRAFTER	T. HICKS
PROJECT NUMBER	10393769

PRELIMINARY
NOT FOR CONSTRUCTION OR RECORDING

COLORADO SPRINGS UTILITIES
NORTHERN MONUMENT CREEK INTERCEPTOR AND MIDDLE TRIBUTARY LIFT STATION INTERCEPTOR CONNECTION

SWMP/GEC
STORM WATER MANAGEMENT PLAN
ACCESS ROUTE TO STAGING AREA 1

0 1" 2"

FILENAME 05C401.DWG
SCALE AS NOTED

SHEET 05C401