

GENERAL CONSTRUCTION NOTES

1. DEFINITIONS
 - A. OWNER - CITY OF COLORADO SPRINGS AIRPORT
 - B. CONTRACTOR - AS DETERMINED BY BID.
 - C. ENGINEER - ENERTIA CONSULTING GROUP, LLC.
 - D. AGENCY OF JURISDICTION - THE CITY OF COLORADO SPRINGS - AUTHORIZED REPRESENTATIVE(S) OF THE CITY ENGINEERING DIVISION AND PUBLIC WORKS DEPARTMENT.
- CONTRACTOR SHALL HAVE IN CONTRACTOR'S POSSESSION AT ALL TIMES ONE (1) COPY OF CONSTRUCTION DOCUMENTS STAMPED AND SIGNED BY ENGINEER AND COLORADO SPRINGS, AND ONE (1) COPY OF THE LATEST EDITION OF THE COLORADO SPRINGS STANDARD SPECIFICATION MANUAL. ALL WORK SHALL COMPLY WITH THE COLORADO SPRINGS STANDARD SPECIFICATIONS, LATEST EDITION. THE ENGINEERING DESIGN AND CONCEPT REMAINS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE APPEAR ON THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ENGINEER IMMEDIATELY.
2. WORK HOURS
 - A. ALL WORK ON THE PROJECT SHALL BE PERFORMED DURING REGULAR WORK HOURS, 7:00 A.M. UNTIL 7:00 P.M., MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE CITY AND AIRPORT.
 - B. CONTRACTOR SHALL NOT PERFORM WORK OUTSIDE REGULAR WORK HOURS OR ON SATURDAY, SUNDAY OR ANY CITY HOLIDAY WITHOUT RECEIVING WRITTEN CONSENT FROM THE CITY AND AIRPORT. OBSERVED HOLIDAYS INCLUDE: NEW YEAR'S DAY, MARTIN LUTHER KING DAY, PRESIDENTS' DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS EVE, CHRISTMAS DAY.
 - C. REQUEST FOR WORK OUTSIDE REGULAR WORK HOURS SHALL BE RECEIVED TWO BUSINESS DAYS PRIOR TO THE PROPOSED DATE OF THE WORK.
3. PRECONSTRUCTION MEETINGS
 - A. CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH COLORADO SPRINGS ENGINEERING STAFF AT LEAST 3 BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. THOSE IN ATTENDANCE SHALL INCLUDE:
 - CONTRACTOR
 - OWNER
 - ENGINEER
 - COLORADO SPRINGS PUBLIC WORKS
 - CONTRACTOR
 - GEOTECHNICAL ENGINEER
 - ANY OTHER AFFECTED AGENCIES
 - B. CONSTRUCTION DOCUMENTS WITH THE COLORADO SPRINGS REVIEW STAMP AND SIGNATURE SHALL BE DISTRIBUTED AT THE PRECONSTRUCTION MEETING.
4. CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO THE DESIGNATED LIMIT OF CONSTRUCTION AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, AND AREAS UNDER OWNERSHIP OF OWNER, UNLESS OTHERWISE AUTHORIZED BY THE AFFECTED PROPERTY OWNER AND ACKNOWLEDGED BY COLORADO SPRINGS AND THE AIRPORT. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL OBTAIN WRITTEN AGREEMENTS FOR INGRESS AND EGRESS TO THE WORK SITE FROM ADJACENT PRIVATE PROPERTY OWNERS. ACCESS TO ANY ADJACENT PRIVATE PROPERTY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
5. CONTRACTOR SHALL VERIFY ACCURACY BETWEEN WORK SET FORTH ON THESE CONSTRUCTION DOCUMENTS AND WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO START OF CONSTRUCTION.
6. ENGINEER SHALL COORDINATE ANY PROPOSED CHANGES WITH COLORADO SPRINGS PUBLIC WORKS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING NOTIFICATIONS:
 - A. UTILITY NOTIFICATION CENTER OF COLORADO, 1-800-922-1987. CALL TWO (2) BUSINESS DAYS PRIOR (NOT INCLUDING THE DAY OF THE CALL) TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.
 - I. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS.
 - II. PROVIDING NOTIFICATION AND RECEIVING MARKINGS OF UNDERGROUND MEMBER UTILITIES IN NO WAY CONSTITUTES PERMISSION TO PERFORM CONSTRUCTION.
 - B. COLORADO SPRINGS 24 HOURS IN ADVANCE FOR OBSERVATIONS OF WORK IN PROGRESS. OBSERVATION AND ONSITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE OR APPROVAL BY COLORADO SPRINGS STAFF OF CONTRACTOR'S WORK OR CONTRACTUAL COMMITMENT. IF WORK IS SUSPENDED FOR LONGER THAN 5 DAYS AFTER INITIAL START-UP, CONTRACTOR SHALL NOTIFY THE COLORADO SPRINGS CONSTRUCTION INSPECTION SUPERVISOR ONE (1) BUSINESS DAYS (24 HOURS) PRIOR TO RESTART OF CONSTRUCTION.
 - C. COLORADO SPRINGS, THE OWNER AND FIRE DISTRICT FOR ANY STREET CLOSURES AND EXISTING FIRE HYDRANTS TAKEN OUT OF SERVICE, AT LEAST 2 BUSINESS DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION.
8. FOR DEVELOPMENT WORK, OWNER SHALL OBTAIN AT OWNER'S EXPENSE, ALL PERMITS NECESSARY TO PERFORM THE PROPOSED WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION:
 - A. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO COLORADO SPRINGS PUBLIC WORKS FOR APPROVAL PRIOR TO CONSTRUCTION.
 - B. ALL SIGNS, STRIPING AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AND CDOT M45 STANDARDS, LATEST EDITION.
 - C. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND CLEANING OF TRAFFIC CONTROL DEVICES.
 - D. CONTRACTOR SHALL MAINTAIN EXISTING PAVEMENT MARKINGS DURING CONSTRUCTION OPERATIONS, IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND COLORADO SPRINGS STANDARDS AND SPECIFICATIONS.
 - E. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE SURFACE OR TEXTURE OF THE PAVEMENT OR EXISTING SURFACING. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY ARE NOT VISIBLE UNDER DAY OR NIGHT CONDITIONS.
10. WHEN DISCHARGING GROUNDWATER (IF APPLICABLE), ALL DEWATERING METHODS SHALL BE IN CONFORMANCE WITH ALL LAWS AND REGULATIONS OF THE STATE—INCLUDING OBTAINING A COLORADO DISCHARGE PERMIT SYSTEM FOR CONSTRUCTION DEWATERING WASTEWATER DISCHARGE—AND SUBJECT TO THE APPROVAL OF COLORADO SPRINGS. CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORMWATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK.
11. CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DOCUMENTS.
12. CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTling OF MARKERS SHALL BE PERFORMED UNDER THE DIRECTION OF A COLORADO LICENSED PROFESSIONAL LAND SURVEYOR AND AS APPROVED BY COLORADO SPRINGS.
13. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY CONSTRUCTION DEBRIS AND MUD TRACKED ONTO EXISTING ROADWAYS. CONTRACTOR SHALL REPAIR ANY EXCAVATION OR PAVEMENT FAILURES CAUSED BY THE CONSTRUCTION.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL STATE AND COLORADO SPRINGS DUST AND EROSION CONTROL ORDINANCES. CONSTRUCTION VEHICLES SHALL USE TRUCK ROUTES DESIGNATED BY COLORADO SPRINGS.
15. ALL CONCRETE AND ASPHALT MIXTURE DESIGNS SHALL BE APPROVED BY COLORADO SPRINGS PUBLIC WORKS PRIOR TO PLACEMENT OF CONCRETE AND ASPHALT.
16. WORK IN PUBLIC STREETS SHALL BE PERFORMED IN A MANNER THAT PROVIDES MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE GENERAL PUBLIC.
17. ALL PAVEMENT CUTS AND EXPLORATORY POTHLES SHALL BE REPAIRED AS REQUIRED BY COLORADO SPRINGS PUBLIC WORKS AND THE OWNER.
18. NO ROADWAY SHALL BE OPEN CUT UNLESS APPROVED BY COLORADO SPRINGS PUBLIC WORKS AND THE OWNER.
19. OWNER SHALL SUBMIT A PAPER COPY OF REDLINED RECORD CONSTRUCTION DOCUMENTS TO COLORADO SPRINGS PRIOR TO THE CONSTRUCTION ACCEPTANCE INSPECTION. REFER TO THE COLORADO SPRINGS STANDARDS AND SPECIFICATIONS FOR ADDITIONAL RECORD DOCUMENT SUBMITTAL REQUIREMENTS.
20. PRIOR TO CONSTRUCTION ACCEPTANCE, ENGINEER SHALL SUBMIT A PLAN OF PROPOSED LOCATIONS FOR INSTALLATION OF RANGE POINTS TO COLORADO SPRINGS FOR APPROVAL. RANGE POINTS SHALL BE SET IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLES 51 AND 53 OF TITLE 38 OF THE COLORADO REVISED STATUTES, AND AS REQUIRED BY THE BYLAWS AND RULES OF PROCEDURE OF THE COLORADO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS. RANGE POINTS SHALL BE SET IN VALVE BOXES THAT COMPLY WITH THE COLORADO SPRINGS STANDARDS AND SPECIFICATIONS WITH BOX LIDS MARKED "SURVEY POINT", OR AS OTHERWISE APPROVED BY THE CITY ENGINEER.

GENERAL ENGINEERING NOTES (CONT)

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING NOTIFICATIONS AND VERIFICATIONS:
 - a. UTILITY NOTIFICATION CENTER OF COLORADO, 1-800-922-1987. CALL TWO (2) BUSINESS DAYS PRIOR TO ANY AND ALL DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.
 - b. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS.
 - c. PROVIDING NOTIFICATION AND RECEIVING MARKINGS OF UNDERGROUND MEMBER UTILITIES IN NO WAY CONSTITUTES PERMISSION TO PERFORM CONSTRUCTION.
 - d. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND REPAIR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION, WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL CONTACT ALL RESPECTIVE UTILITIES AND HAVE ALL UTILITIES FIELD LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING STRUCTURES AND UTILITIES SHOWN ON THE DRAWINGS, TO ASCERTAIN WHETHER ANY STRUCTURES AND UTILITIES MAY EXIST, AND TO REPAIR OR REPLACE ANY STRUCTURES AND UTILITIES THAT MIGHT BE DAMAGED.
 - e. LOCATIONS OF UTILITIES REPRESENT THE BEST KNOWN LOCATIONS AT THE TIME OF PREPARATION OF DRAWINGS. THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES IN ADVANCE OF EXCAVATION. RELOCATION OF UTILITIES IS ANTICIPATED FOR THIS PROJECT. WHERE REQUIRED, THE CONTRACTOR SHALL COOPERATE WITH COMPANIES TRYING TO COORDINATE THE RELOCATION EFFORT. LINES NOT RELOCATED SHALL BE PROTECTED BY THE CONTRACTOR. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THE MINOR ADJUSTMENT OF STRUCTURES IN ORDER TO CLEAR A CONFLICTING UTILITY.
2. THE CONTRACTOR SHALL NOTIFY CITY OF COLORADO SPRINGS PUBLIC WORKS AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
3. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES, FLAGMEN, LIGHTS OR OTHER DEVICES NECESSARY FOR SAFE TRAFFIC CONTROL IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND AS MODIFIED BY THE COLORADO SUPPLEMENT TO THE MUTCD. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY OF COLORADO SPRINGS PUBLIC WORKS PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMIT FOR WORK WITHIN RIGHT-OF-WAY.
4. EXISTING ASPHALT PAVEMENT SHALL BE STRAIGHT SAWCUT OR BLADECUT WHEN ADJOINING WITH NEW ASPHALT PAVEMENT. EXISTING PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE SAW CUT TO A NEAT VERTICAL LINE WITH A CONCRETE PAVEMENT SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER AND GOVERNING MUNICIPALITY. REMOVED PAVEMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE. ANY AND ALL WORK ASSOCIATED WITH ASPHALT PAVEMENT SAWING AND/OR DISPOSAL SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE ITEM OF WORK. WHERE EXISTING BITUMINOUS PAVEMENT IS SAWCUT TO ABUT THE NEW BITUMINOUS PAVEMENT, THE SAWCUT VERTICAL EDGE SHALL BE PAINTED WITH EMULSIFIED ASPHALT (SLOW-SETTING).
5. STRUCTURAL SECTION SHALL BE PER THE FINAL PAVEMENT DESIGN REPORT BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY OF COLORADO SPRINGS PUBLIC WORKS WITH PAVEMENT DESIGN IN ACCORDANCE WITH THE CITY OF COLORADO SPRINGS ROADWAY DESIGN AND CONSTRUCTION MANUAL.
6. CONCRETE MAY BE PLACED BY MACHINE METHODS PROVIDED THAT ALL FINISH LINES ARE WITHIN 1/8" +/- TOLERANCE OF THE LINES SHOWN ON THE PLANS. THE FLOWLINE MUST BE FREE DRAINING.
7. CONTRACTOR SHALL HAVE IN CONTRACTOR'S POSSESSION AT ALL TIMES ONE (1) COPY OF THE GEOTECHNICAL REPORT.
8. PROOF ROLLING WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK. PROOF ROLLING MUST OCCUR PRIOR TO PAVING.
9. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE THE SUCCEEDING LAYER IS PLACED.
10. A TACK COAT IS REQUIRED PRIOR TO THE PLACEMENT OF SUBSEQUENT LIFTS OF HOT BITUMINOUS PAVEMENT (HBP).
11. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE ROADWAY AS DIRECTED BY ENGINEER. CLEANING SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE HBP.
12. IF NECESSARY, A PICK-UP TYPE BROOM SHALL PERFORM ALL SWEEPING OPERATIONS. SWEEPING OPERATIONS NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
13. ALL EXCESS PAVING MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED PROPERLY BY THE CONTRACTOR.
14. ALL STRIPING SHALL MEET THE REQUIREMENTS OUTLINED IN THE MUTCD AND BY THE CITY OF COLORADO SPRINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF ALL NECESSARY TEMPORARY AND PERMANENT PAVEMENT MARKINGS UNTIL CONSTRUCTION ACCEPTANCE IS ISSUED.
15. ALL ASPHALT MIXTURE DESIGNS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE AND ASPHALT.

SUPPLEMENTAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND REPAIR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION, WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL CONTACT ALL RESPECTIVE UTILITIES AND HAVE ALL UTILITIES FIELD LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING STRUCTURES AND UTILITIES SHOWN ON THE DRAWINGS, TO ASCERTAIN WHETHER ANY STRUCTURES AND UTILITIES MAY EXIST, AND TO REPAIR OR REPLACE ANY STRUCTURES AND UTILITIES THAT MIGHT BE DAMAGED.
2. ALL OFFSITE WORK (IF APPLICABLE) WILL REQUIRE A WRITTEN AUTHORIZATION OR TEMPORARY CONSTRUCTION EASEMENT FROM THE PROPERTY OWNER PRIOR TO THE COMMENCEMENT OF WORK.
3. SEE LANDSCAPING CONSTRUCTION DOCUMENTS FOR DETAILS AND SPECIFICATIONS FOR LANDSCAPING AND WALLS (IF APPLICABLE).
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF COLORADO SPRINGS STANDARDS.
5. VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IF ANY CONFLICTS WITH THE DRAWINGS OCCUR.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING UTILITY LINES WHICH MAY NOT BE SHOWN.

DESIGN FLOWS

RETURN PERIOD	DESIGN FLOW (CFS)	FLOW DEPTH (FT)
2-YEAR	87	1.09
100-YEAR	377.4	2.6

AMENDMENT									

DATE									

NO.									

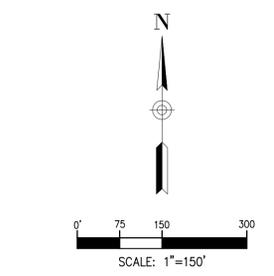
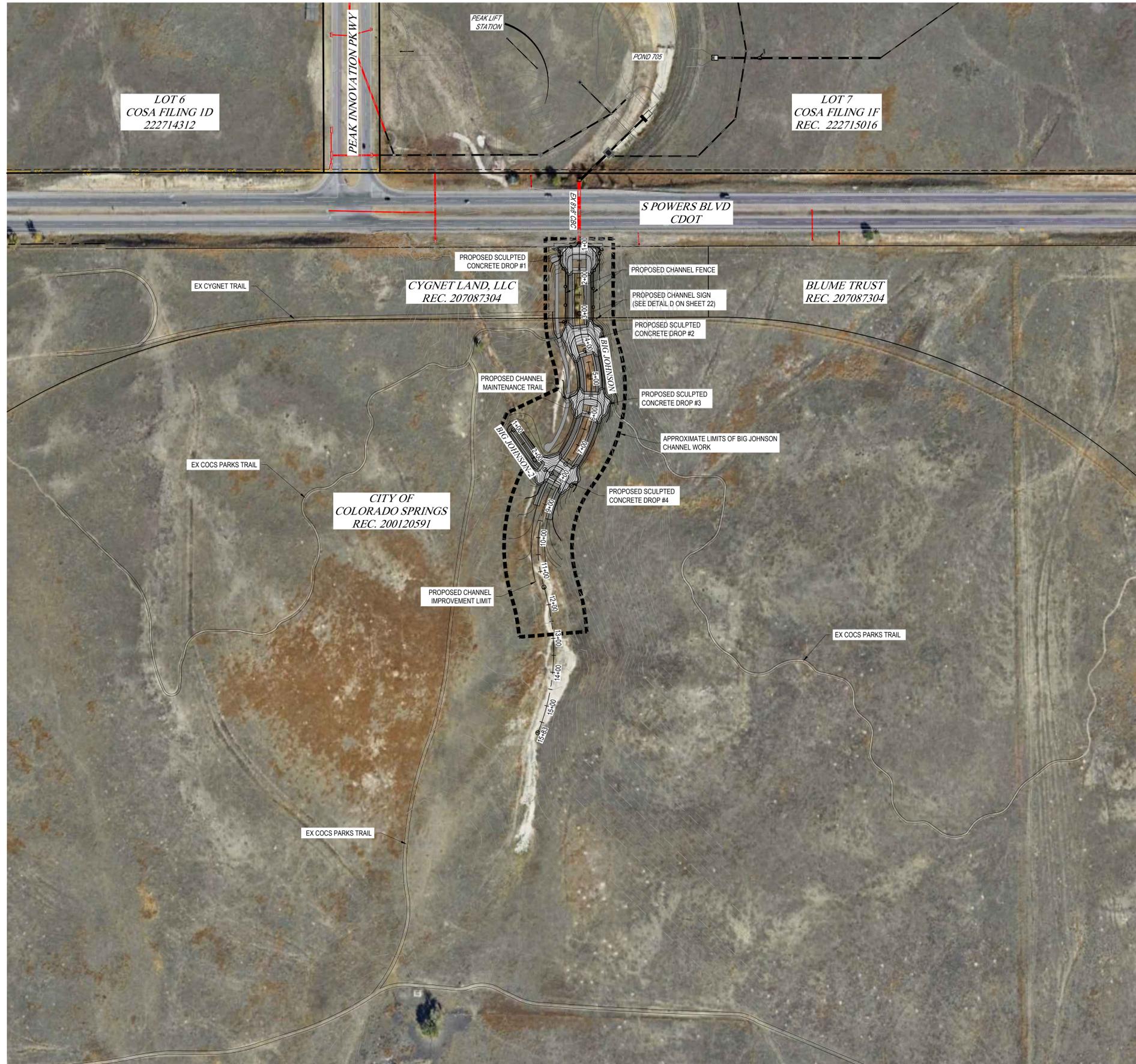


COLORADO SPRINGS AIRPORT
 BIG JOHNSON CHANNEL STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO
GENERAL NOTES

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS
BEFORE YOU DIG
CALL 811
(OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0" = 1"

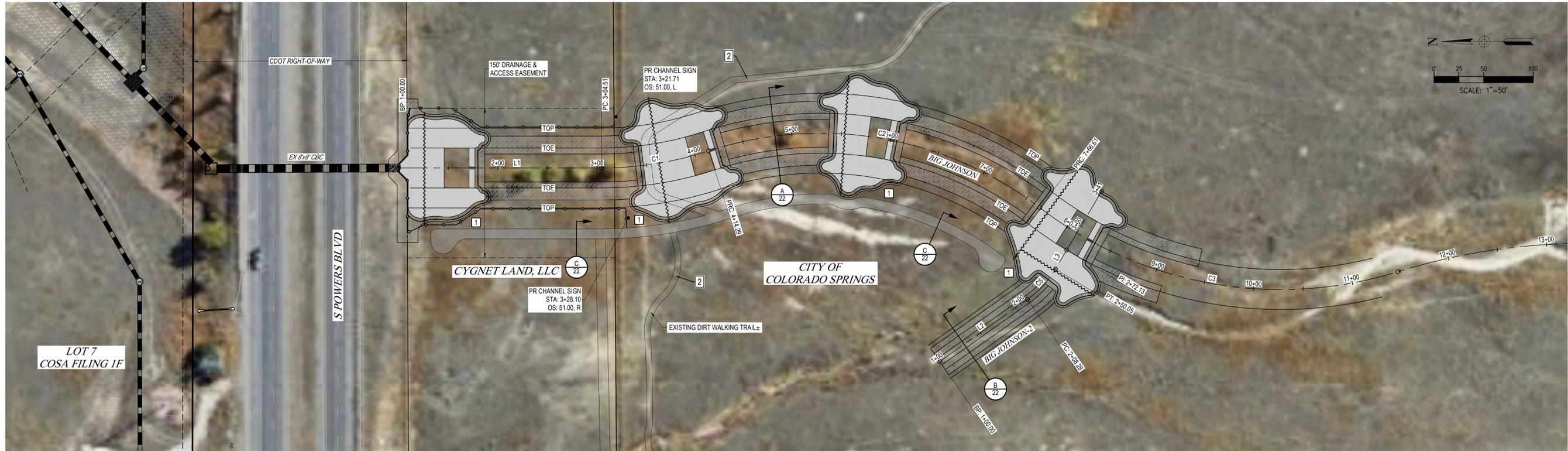
DATE: NOVEMBER 3, 2023
SHEET



LEGEND

	PR. 5' CONTOUR
	PR. 1' CONTOUR
	EX. 5' CONTOUR
	EX. 1' CONTOUR
	EX. STORM DRAIN

AMENDMENT	
NO.	DATE
COLORADO SPRINGS AIRPORT BIG JOHNSON CHANNEL STABILIZATION CIVIL CONSTRUCTION PLANS COLORADO SPRINGS, COLORADO OVERALL SITE PLAN	
FOR BURIED UTILITY INFORMATION THREE (3) BUSINESS DAYS BEFORE YOU DIG CALL 811 <small>(OR 1-800-922-1987)</small> UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) <small>WWW.UNCC.ORG</small>	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. DATE: NOVEMBER 3, 2023 SHEET 5 OF 23	



LINE TABLE				CURVE TABLE			
LINE NO.	LENGTH	DIRECTION	CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	
L1	204.51'	S0°00'00"E	C1	350.00'	109.78'	S8°59'11"E	
L2	108.28'	S35°10'46"E	C2	365.00'	352.32'	S9°40'47"W	
L3	22.07'	S59°06'55"E	C3	400.00'	380.62'	S10°04'20"W	
			C4	636.15'	435.97'	S2°26'42"W	
			C5	100.00'	41.78'	S47°08'50"E	

HORIZONTAL CONTROL NOTES

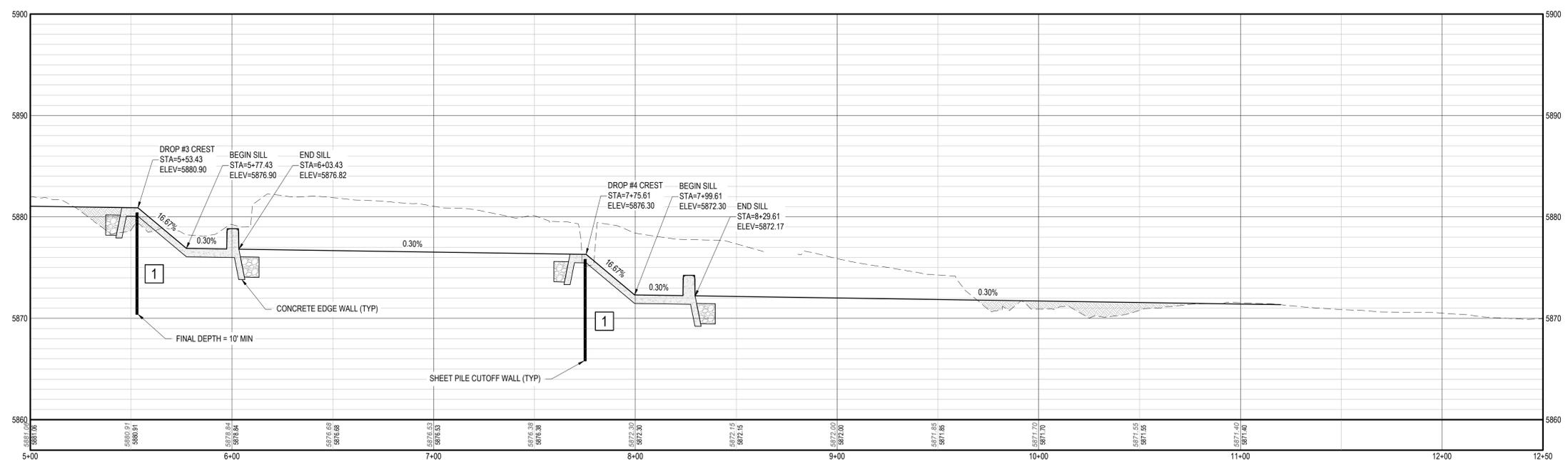
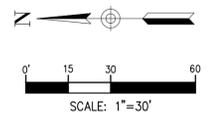
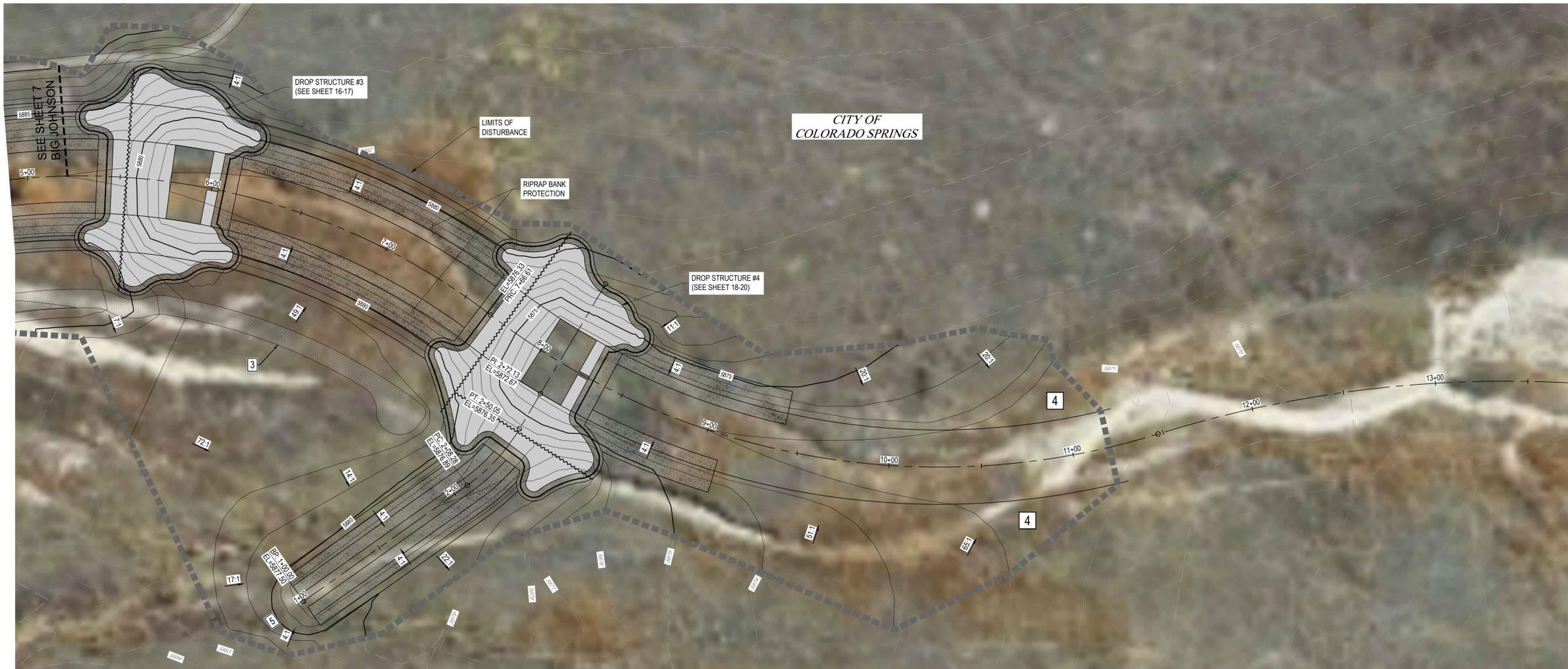
- 1 SCULPTED CONCRETE DROP STRUCTURE. REFER TO DETAILS ON THE TYPICAL SECTIONS AND DETAILS SHEETS.
- 2 APPROXIMATE LOCATION OF EXISTING DIRT PATH. PATH TO BE SURVEYED AND CROSSING OF CHANNEL TO BE COORDINATED.


FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS
BEFORE YOU DIG
CALL 811
(OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG

NO.	DATE	AMENDMENT



COLORADO SPRINGS AIRPORT
BIG JOHNSON CHANNEL STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO
HORIZONTAL CONTROL PLAN



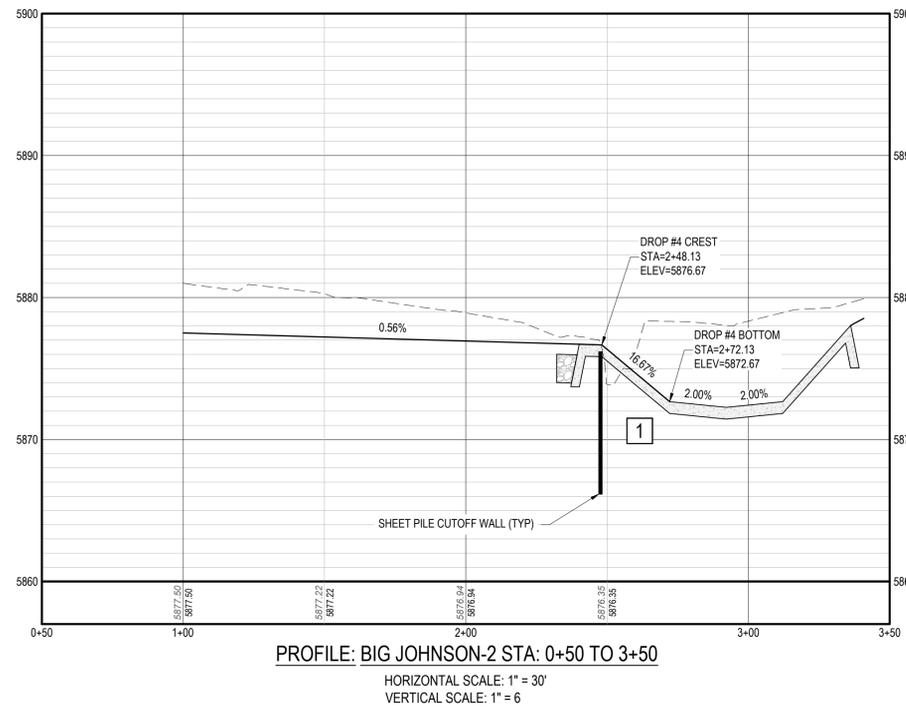
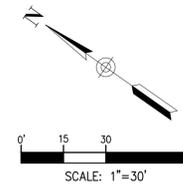
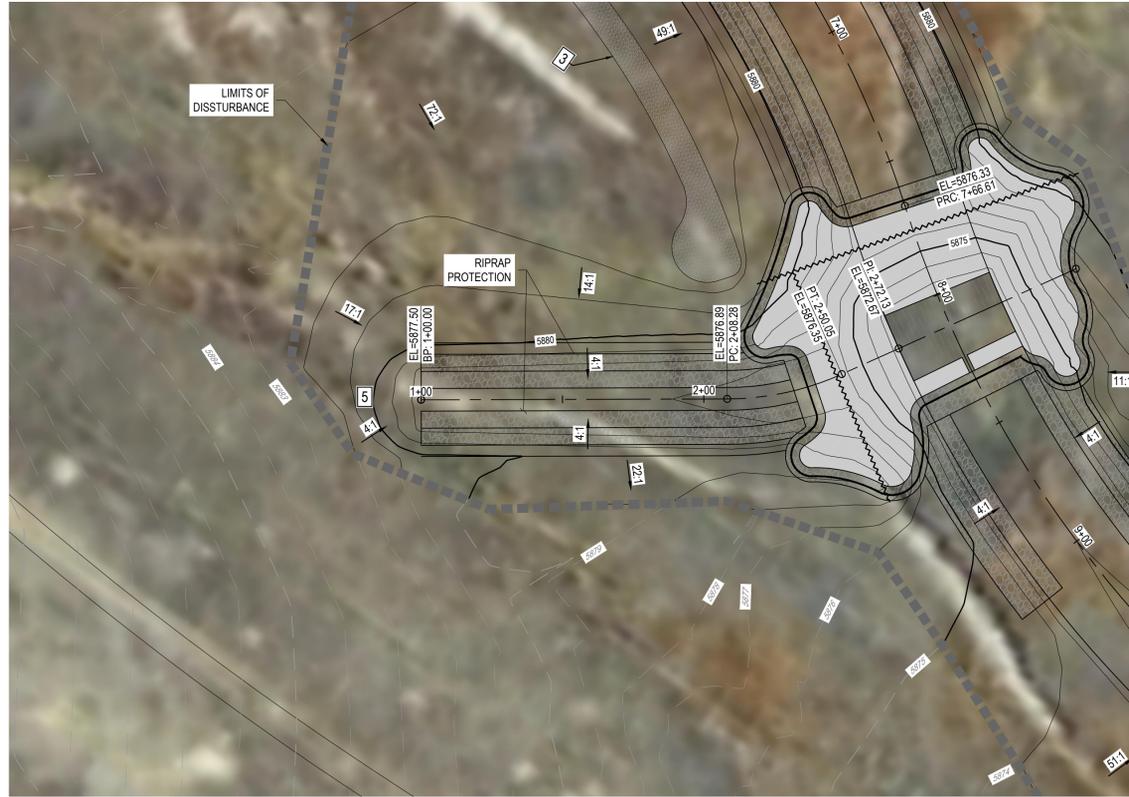
PROFILE: BIG JOHNSON STA: 5+00 TO 12+50
 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 6'

PLAN & PROFILE NOTES

- 1 SCULPTED CONCRETE DROP STRUCTURE. REFER TO DETAILS ON THE TYPICAL SECTIONS AND DETAILS SHEETS. ENGINEER, AIRPORT, DEVELOPER AND LANDSCAPE ARCHITECT TO REVIEW DROP STRUCTURE CONCRETE BEFORE CONCRETE PLACEMENT
- 2 APPROXIMATE LOCATION OF EXISTING DIRT PATH. PATH TO BE SURVEYED AND CROSSING OF CHANNEL TO BE COORDINATED.
- 3 PROPOSED MAINTENANCE ACCESS TRAIL.
- 4 CHANNEL ENDS. SIDE SLOPES TO BE OPENED UP AND TRANSITIONED TO MATCH EXISTING GRADE. CONTRACTOR TO FIELD FIT AS NECESSARY.
- 5 BEGIN CHANNEL. CONTRACTOR TO FIELD FIT AS NECESSARY.
- 6 CONTRACTOR AND ENGINEER SHALL MEET ON-SITE A FIRST ORDER OF WORK.

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
CALL 811
 (OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
 WWW.UNCC.ORG

AMENDMENT	
NO.	
DATE	
COLORADO SPRINGS AIRPORT BIG JOHNSON CHANNEL STABILIZATION CIVIL CONSTRUCTION PLANS COLORADO SPRINGS, COLORADO	
PLAN & PROFILE 02	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 1" = 1"	
DATE: NOVEMBER 3, 2023 SHEET:	
8 OF 23	



PLAN & PROFILE NOTES

- 1 SCULPTED CONCRETE DROP STRUCTURE. REFER TO DETAILS ON THE TYPICAL SECTIONS AND DETAILS SHEETS. ENGINEER, AIRPORT, DEVELOPER AND LANDSCAPE ARCHITECT TO REVIEW DROP STRUCTURE CONCRETE FROM BEFORE CONCRETE PLACEMENT
- 2 APPROXIMATE LOCATION OF EXISTING DIRT PATH. PATH TO BE SURVEYED AND CROSSING OF CHANNEL TO BE COORDINATED.
- 3 PROPOSED MAINTENANCE ACCESS TRAIL.
- 4 CHANNEL ENDS. SIDE SLOPES TO BE OPENED UP AND TRANSITIONED TO MATCH EXISTING GRADE. CONTRACTOR TO FIELD FIT AS NECESSARY. BEGIN CHANNEL. CONTRACTOR TO FIELD FIT AS NECESSARY.
- 5 CONTRACTOR AND ENGINEER SHALL MEET ON-SITE A FIRST ORDER OF WORK.

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
CALL 811
 (OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
 WWW.UNCC.ORG

AMENDMENT

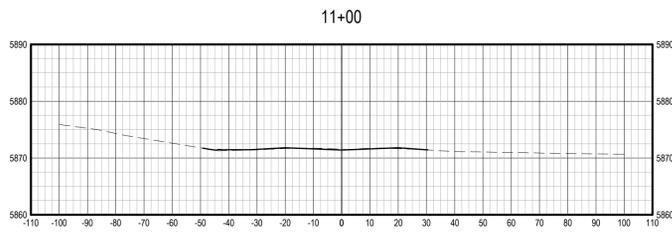
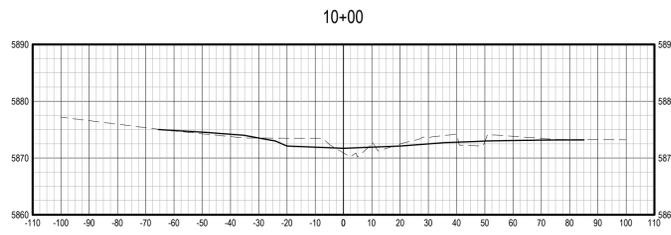
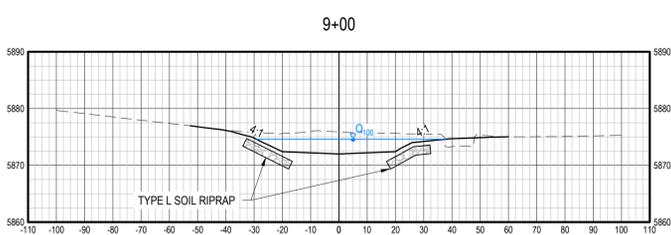
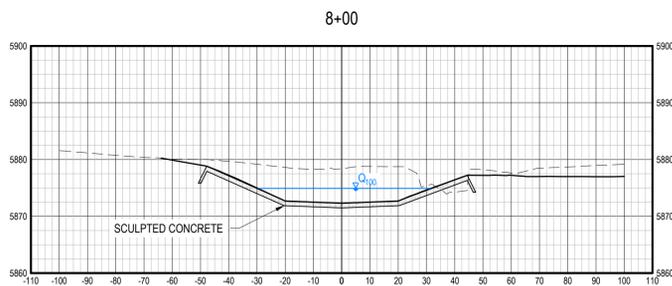
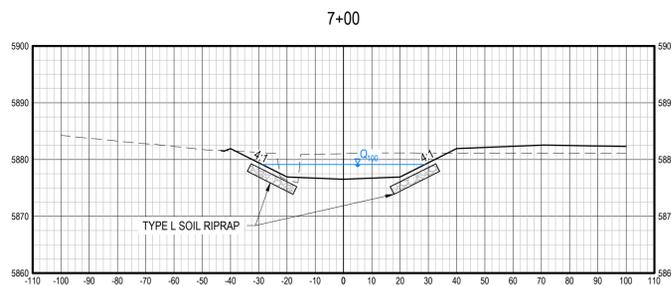
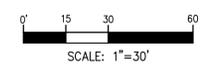
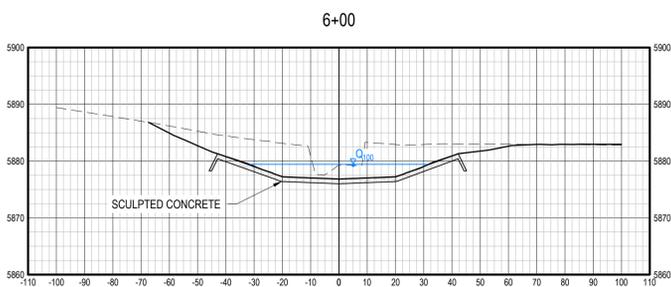
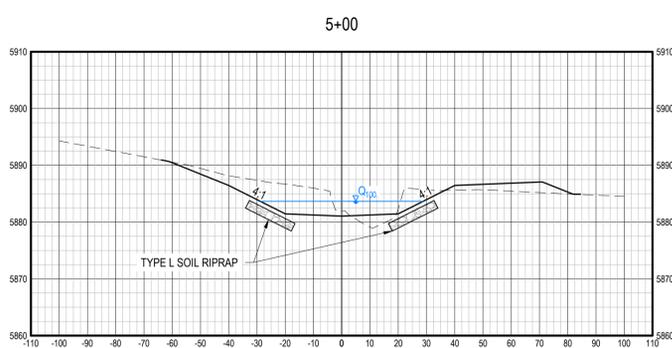
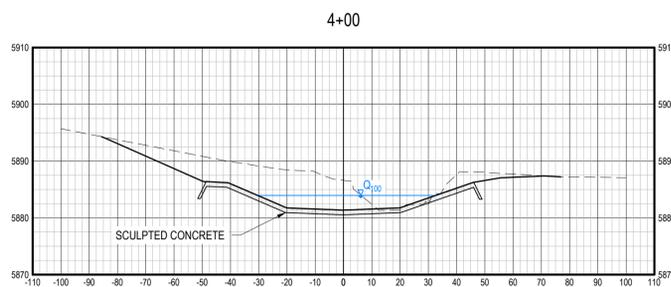
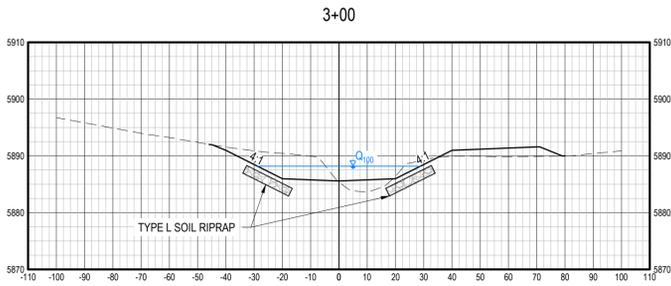
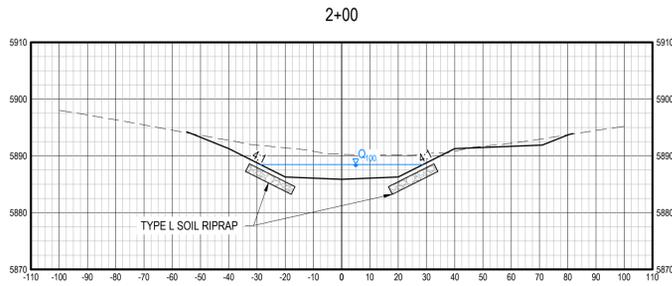
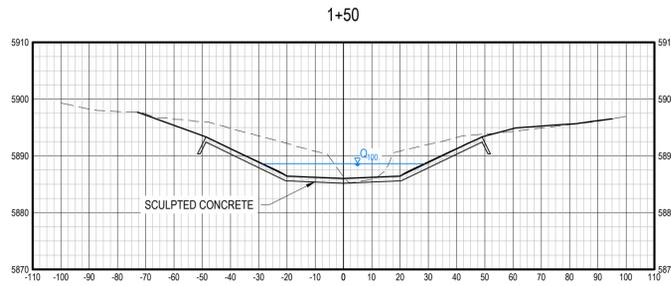
NO. DATE



COLORADO SPRINGS AIRPORT
 BIG JOHNSON CHANNEL STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO

PLAN & PROFILE 03

VERIFY SCALE
 BAR IS ONE INCH ON
 ORIGINAL DRAWING.
 DATE: NOVEMBER 3, 2023
 SHEET



AMENDMENT

NO. DATE

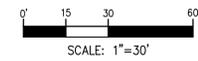
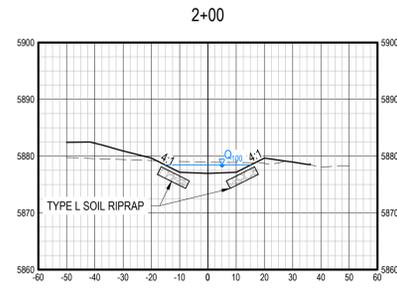
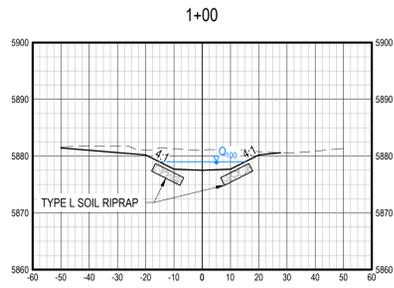


COLORADO SPRINGS AIRPORT
BIG JOHNSON CHANNEL STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO

CROSS SECTIONS STA: 1+50 TO 11+00

811 FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
CALL 811
(OR 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
DATE: NOVEMBER 3, 2023
SHEET
10 OF 23



AMENDMENT

NO. DATE



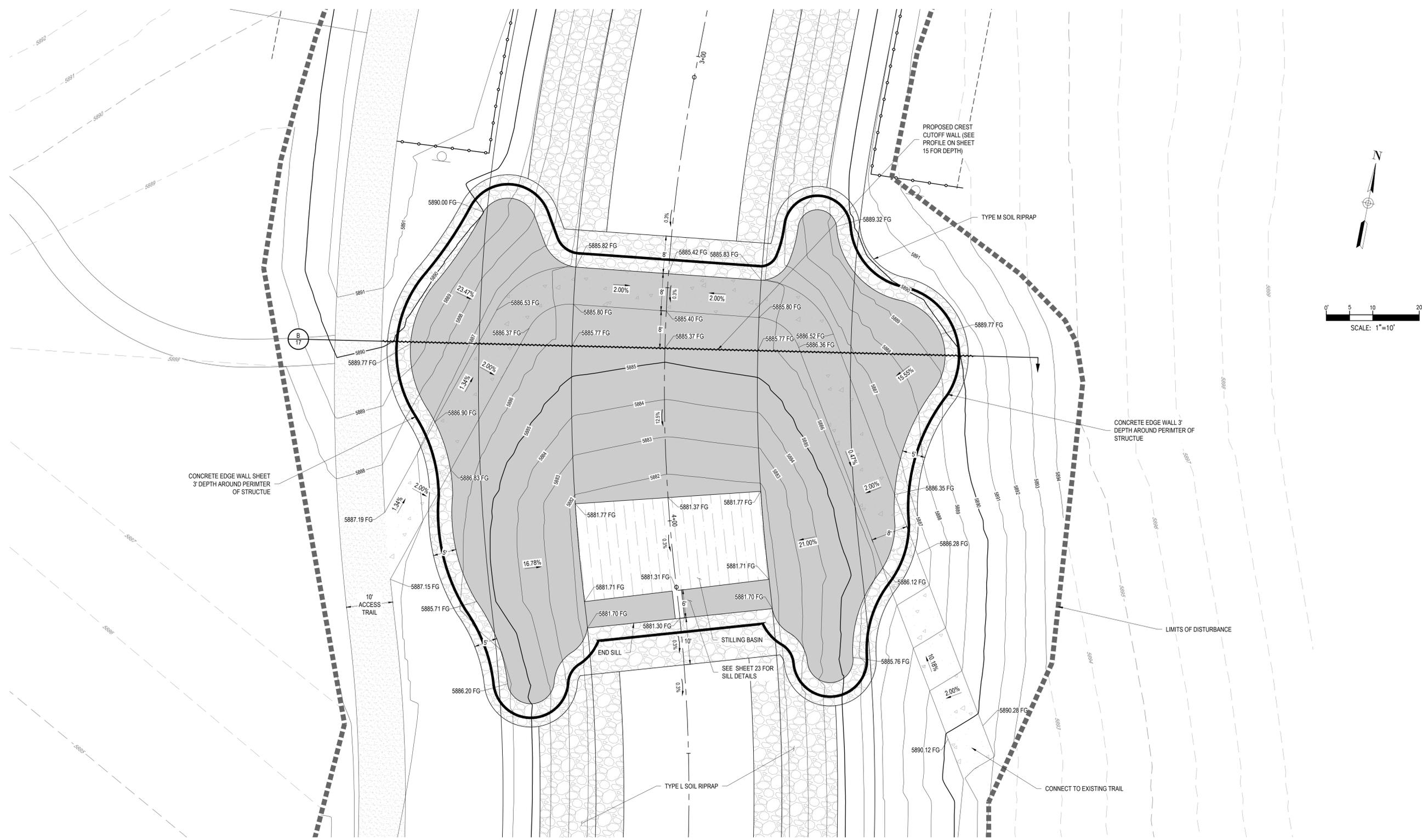
COLORADO SPRINGS AIRPORT
BIG JOHNSON CHANNEL STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO

CROSS SECTIONS STA: 1+00 TO 2+00

FOR BURIED UTILITY INFORMATION
**THREE (3) BUSINESS DAYS
BEFORE YOU DIG**
CALL 811
(OR 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG




VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
DATE: NOVEMBER 3, 2023
SHEET
11 OF 23



- NOTES**
- SEE DETAIL SHEETS FOR TYPICAL DETAILS ON ALL DROPS STRUCTURE ELEMENTS.
 - FINISHED GRADE AND EDGE OF CONCRETE SHOULD HAVE NATURAL VARIABILITY, AS DESCRIBED ON THE DETAIL SHEETS.
 - ALL RIPRAP SHOULD BE PLACED 9" BELOW FINISHED GRADE, EXCEPT THE RIPRAP IN THE LOW FLOW CHANNEL BOTTOM, UPSTREAM OF THE STRUCTURE, AS SHOWN IN THE PROFILE ON THE NEXT SHEET.

LEGEND

	PR. CUTOFF WALL
	PR. SCULPTED CONCRETE STRUCTURE
	PR. EDGE WALL

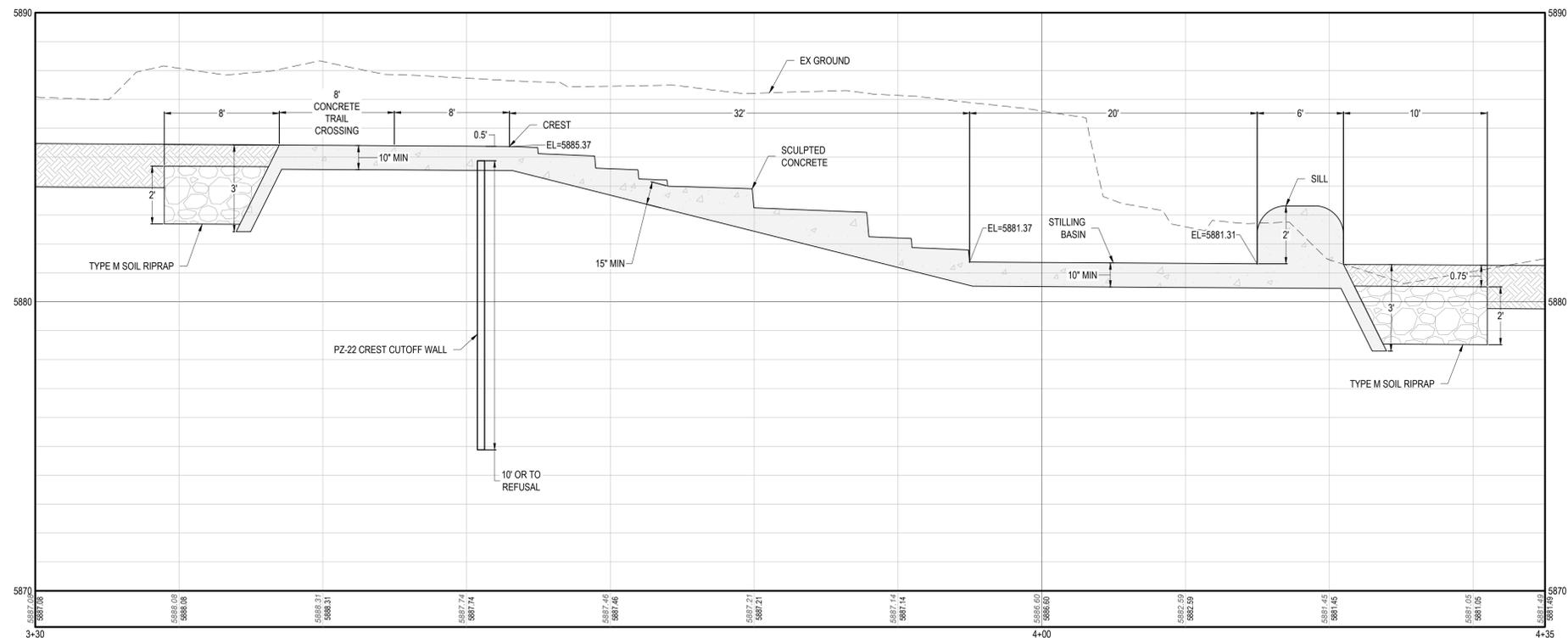
811 FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
 CALL 811
 (OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
 WWW.UNCC.ORG

AMENDMENT	
NO.	
DATE	



COLORADO SPRINGS AIRPORT
 BIG JOHNSON CHANNEL STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO

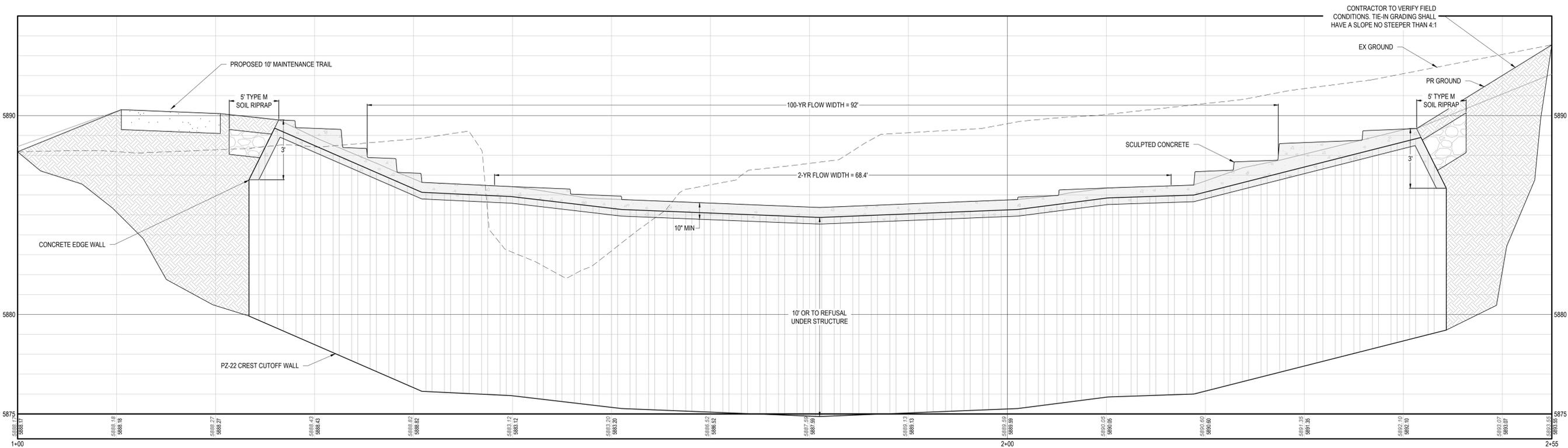
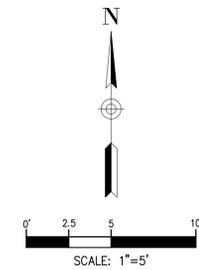
DRAINAGE STRUCTURE #2 PLAN



PROFILE: BIG JOHNSON STA: 3+30 TO 4+35
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

NOTES ON CROSS SECTION B-B:

1. TYPE M SOIL RIP RAP TO BE PLACED AROUND EXTENTS OF CONCRETE DROP STRUCTURE, AS SHOWN IN PLAN VIEW.



PROFILE: DROP #2 - CROSS SECTION B-B - CREST STA: 1+00 TO 2+55
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

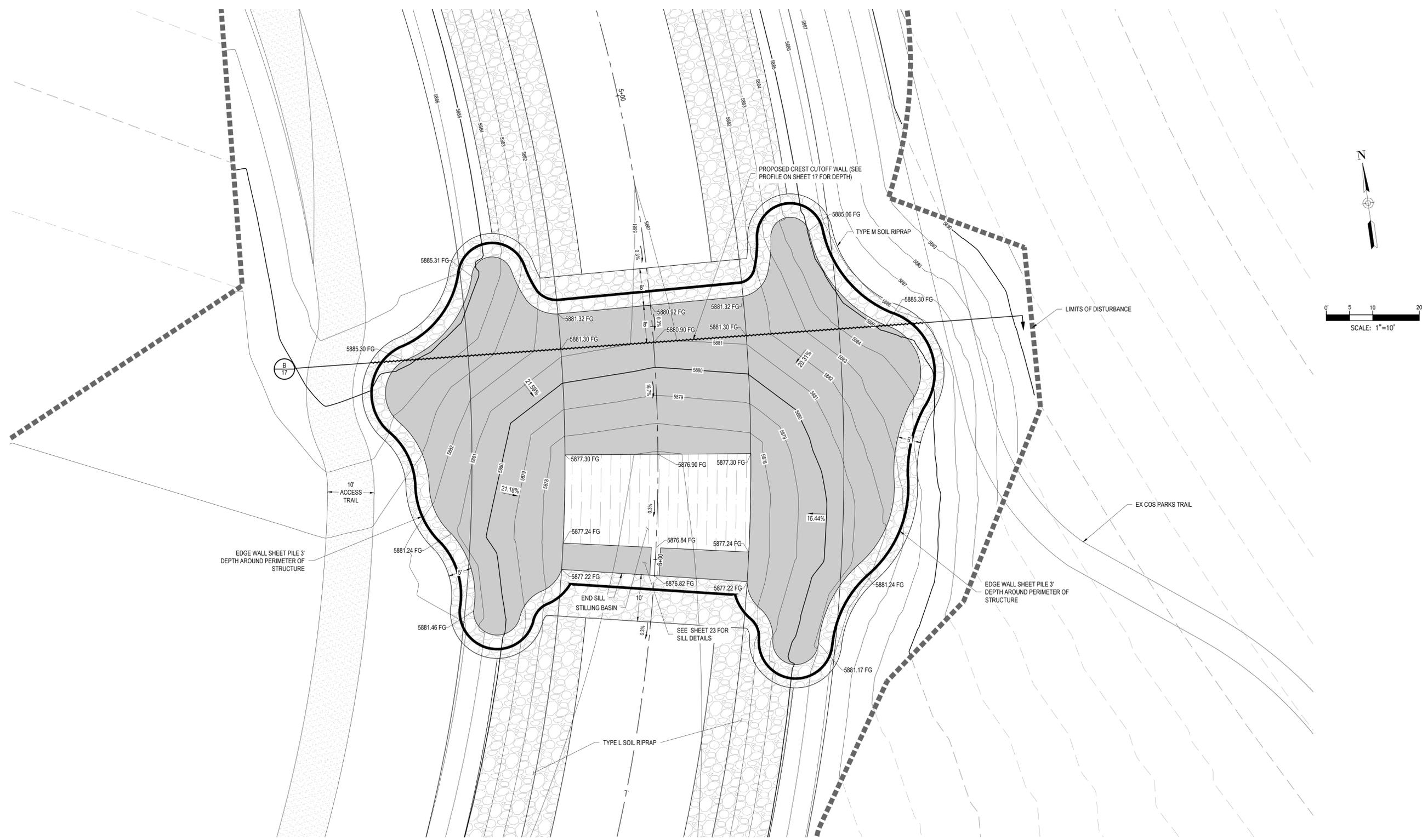
NO.	DATE	AMENDMENT



COLORADO SPRINGS AIRPORT
 BIG JOHNSON CHANNEL STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO
 DRAINAGE STRUCTURE #2
 SECTION VIEWS

811 FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS
BEFORE YOU DIG
 CALL 811
 (OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
 WWW.UNCC.ORG

VERIFY SCALE
 BAR IS ONE INCH ON
 ORIGINAL DRAWING.
 DATE: NOVEMBER 3, 2023
 SHEET
15 OF 23



- NOTES**
1. SEE DETAIL SHEETS FOR TYPICAL DETAILS ON ALL DROPS STRUCTURE ELEMENTS.
 2. FINISHED GRADE AND EDGE OF CONCRETE SHOULD HAVE NATURAL VARIABILITY, AS DESCRIBED ON THE DETAIL SHEETS.
 3. ALL RIPRAP SHOULD BE PLACED 9" BELOW FINISHED GRADE, EXCEPT THE RIPRAP IN THE LOW FLOW CHANNEL BOTTOM, UPSTREAM OF THE STRUCTURE, AS SHOWN IN THE PROFILE ON THE NEXT SHEET.

LEGEND

	PR. CUTOFF WALL
	PR. SCULPTED CONCRETE STRUCTURE
	PR. EDGE WALL

AMENDMENT									
NO.									
DATE									

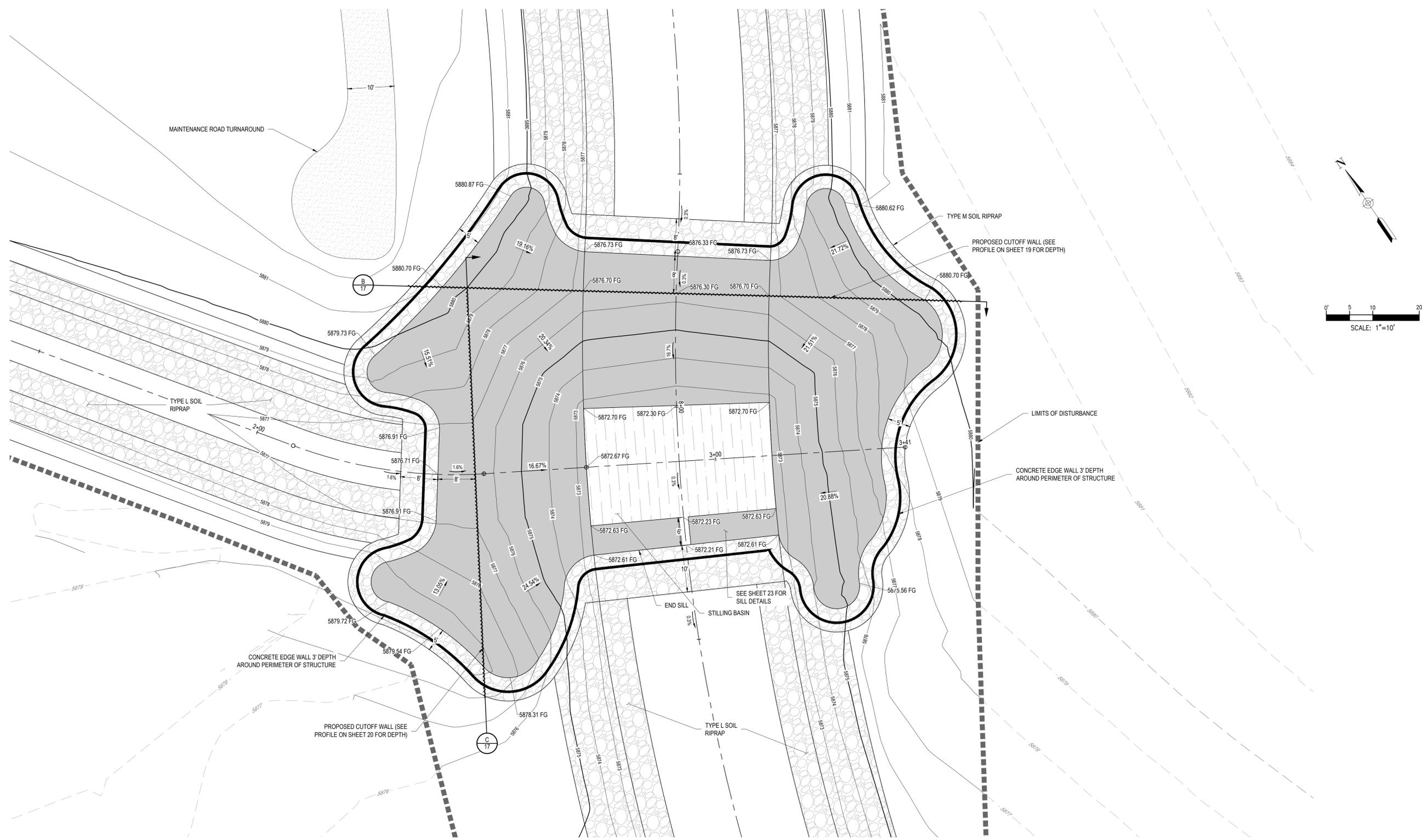


COLORADO SPRINGS AIRPORT
 BIG JOHNSON CHANNEL STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO

DRAINAGE STRUCTURE #3 PLAN

811 FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
 CALL 811
 (OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
 WWW.UNCC.ORG

VERIFY SCALE
 BAR IS ONE INCH ON
 ORIGINAL DRAWING.
 DATE: NOVEMBER 3, 2023
 SHEET
16 OF 23



- NOTES**
- SEE DETAIL SHEETS FOR TYPICAL DETAILS ON ALL DROPS STRUCTURE ELEMENTS.
 - FINISHED GRADE AND EDGE OF CONCRETE SHOULD HAVE NATURAL VARIABILITY, AS DESCRIBED ON THE DETAIL SHEETS.
 - ALL RIPRAP SHOULD BE PLACED 9" BELOW FINISHED GRADE, EXCEPT THE RIPRAP IN THE LOW FLOW CHANNEL BOTTOM, UPSTREAM OF THE STRUCTURE, AS SHOWN IN THE PROFILE ON THE NEXT SHEET.

LEGEND

	PR. CUTOFF WALL
	PR. SCULPTED CONCRETE STRUCTURE
	PR. EDGE WALL

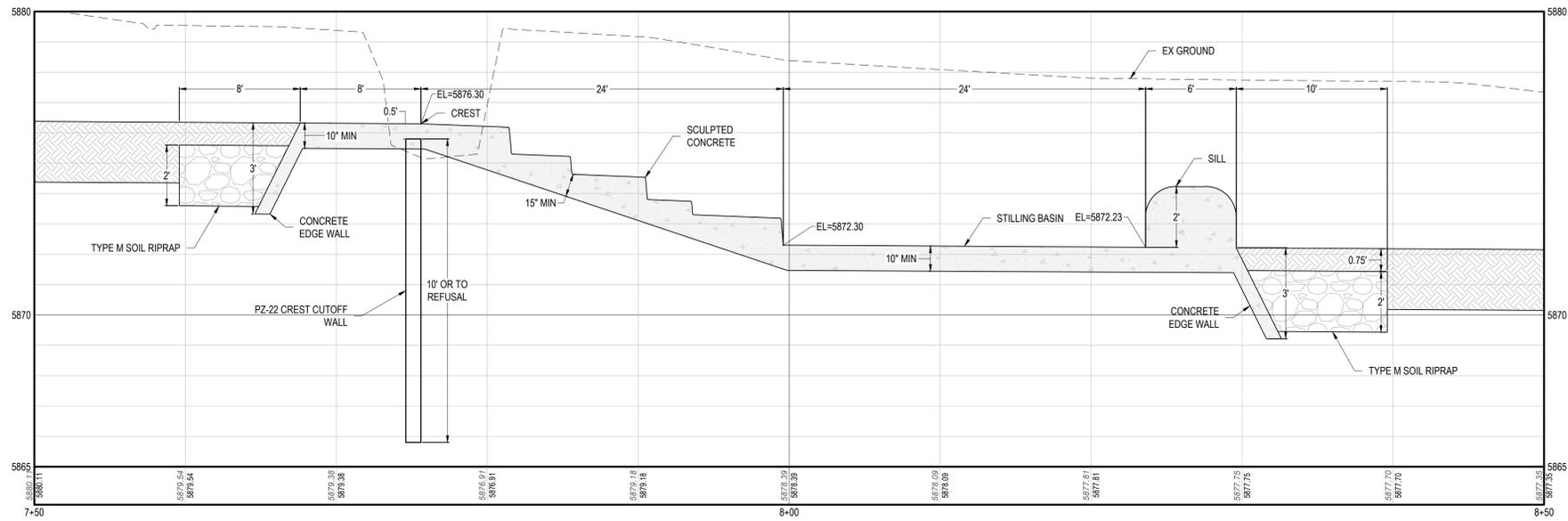
811 FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
 CALL 811
 (OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
 WWW.UNCC.ORG

AMENDMENT									
NO.									
DATE									



COLORADO SPRINGS AIRPORT
 BIG JOHNSON CHANNEL STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO

DRAINAGE STRUCTURE #4 PLAN

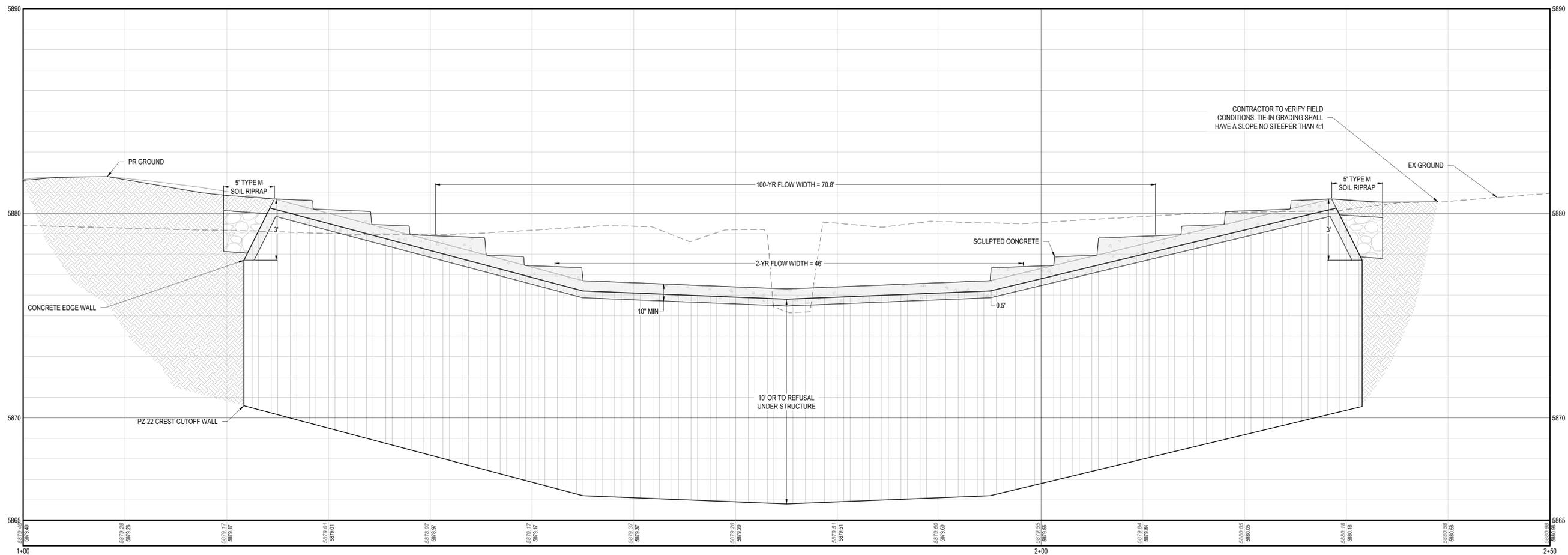


PROFILE: BIG JOHNSON STA: 7+50 TO 8+50

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

NOTES ON CROSS SECTION B-B:

1. TYPE M SOIL RIP RAP TO BE PLACED AROUND EXTENTS OF CONCRETE DROP STRUCTURE, AS SHOWN IN PLAN VIEW.



PROFILE: DROP #3 - CROSS SECTION B-B - CREST STA: 1+00 TO 2+50

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

CONTRACTOR TO VERIFY FIELD CONDITIONS. TIE-IN GRADING SHALL HAVE A SLOPE NO STEEPER THAN 4:1

AMENDMENT

NO. DATE



COLORADO SPRINGS AIRPORT
BIG JOHNSON CHANNEL STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO
DRAINAGE STRUCTURE #4
SECTION VIEWS (1)

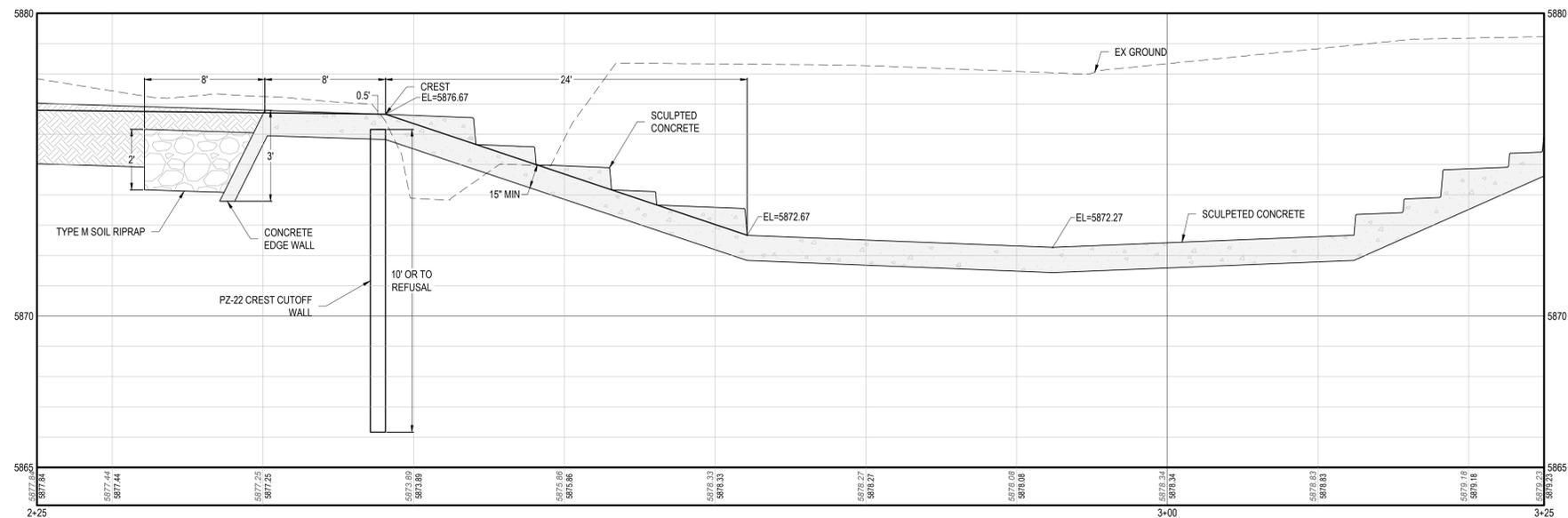


FOR BURIED UTILITY INFORMATION
**THREE (3) BUSINESS DAYS
BEFORE YOU DIG**
CALL 811
(OR 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG



VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
DATE: NOVEMBER 3, 2023

SHEET



PROFILE: BIG JOHNSON-2 STA: 2+25 TO 3+25

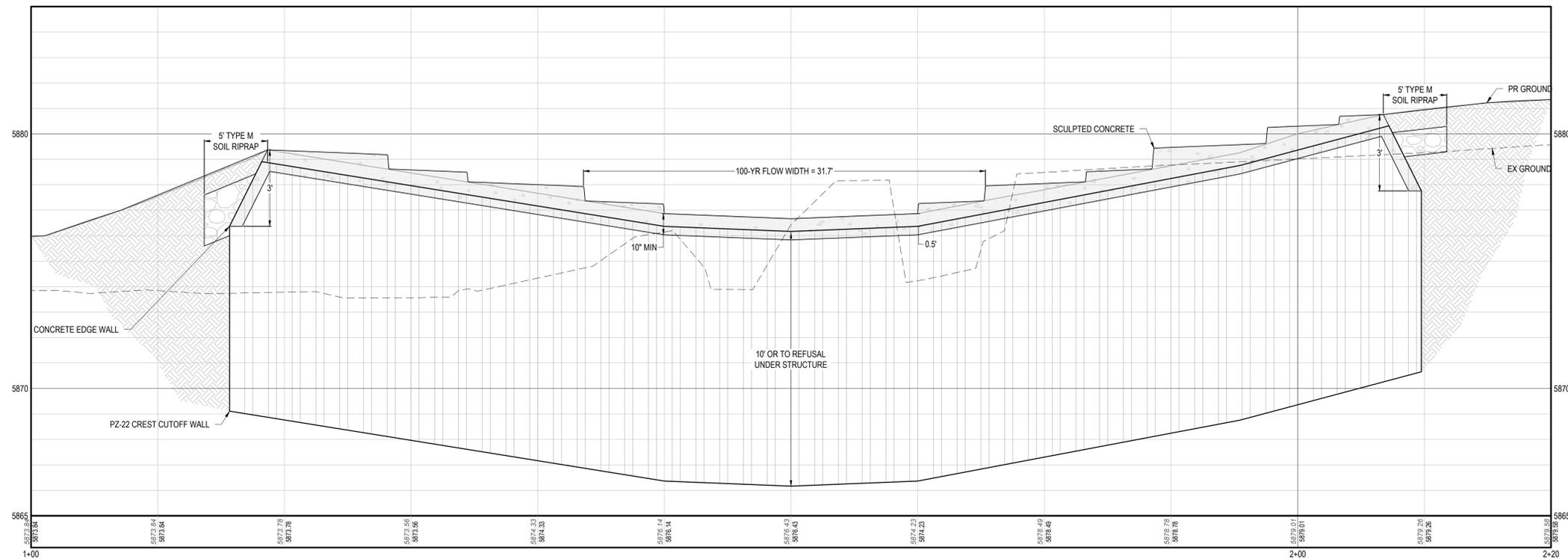
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

PLAN: DRAINAGE STRUCTURE #4 SECTION VIEWS (2)

HORIZONTAL SCALE: 1" = 5'

NOTES ON CROSS SECTION B-B:

1. TYPE M SOIL RIP RAP TO BE PLACED AROUND EXTENTS OF CONCRETE DROP STRUCTURE, AS SHOWN IN PLAN VIEW.



PROFILE: SECTION C-C STA: 1+00 TO 2+20

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

AMENDMENT

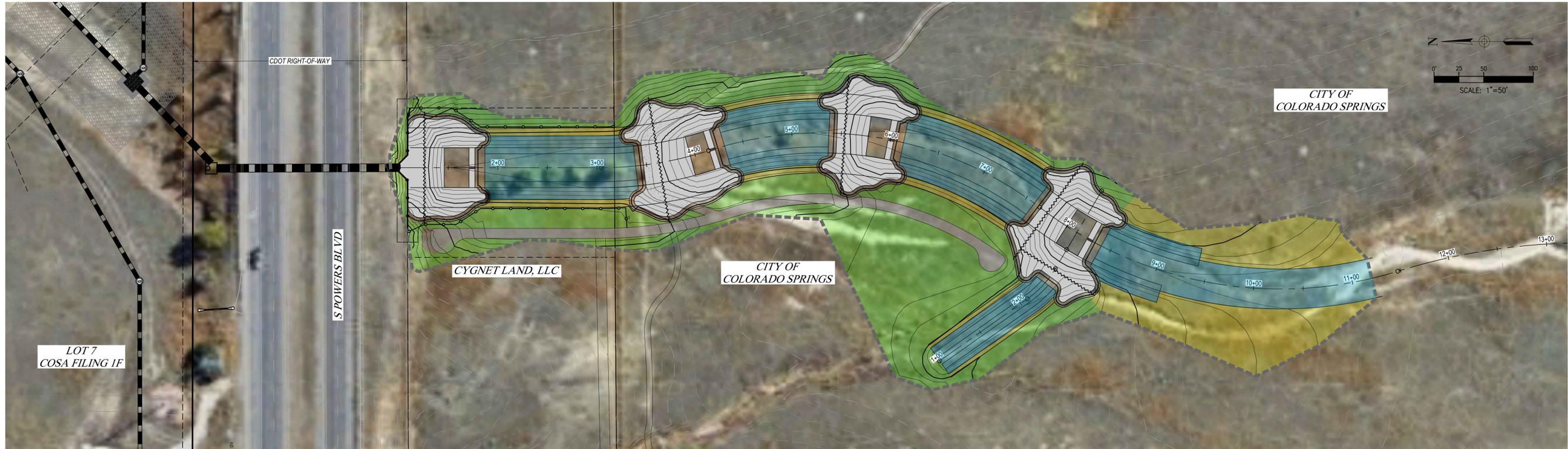
NO. DATE



COLORADO SPRINGS AIRPORT
BIG JOHNSON CHANNEL STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO
DRAINAGE STRUCTURE #4
SECTION VIEWS (2)

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
DATE: NOVEMBER 3, 2023
SHEET

FOR BURIED UTILITY INFORMATION
**THREE (3) BUSINESS DAYS
BEFORE YOU DIG
CALL 811**
(OR 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG



SYMBOL KEY - SEED MIXES

- WETLAND SEED MIX
42,156 SF
- RIPARIAN SEED MIX
26,877 SF
- UPLAND SEED MIX
47,617 SF

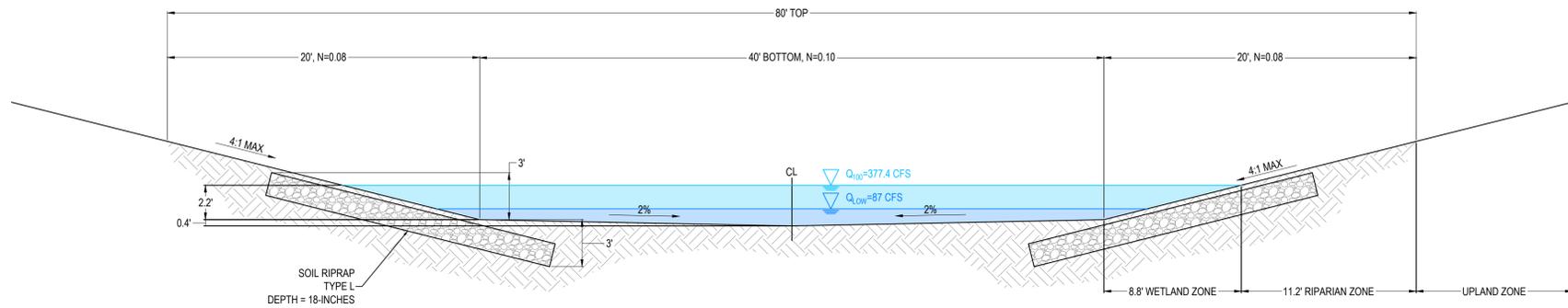
NO.	DATE	AMENDMENT



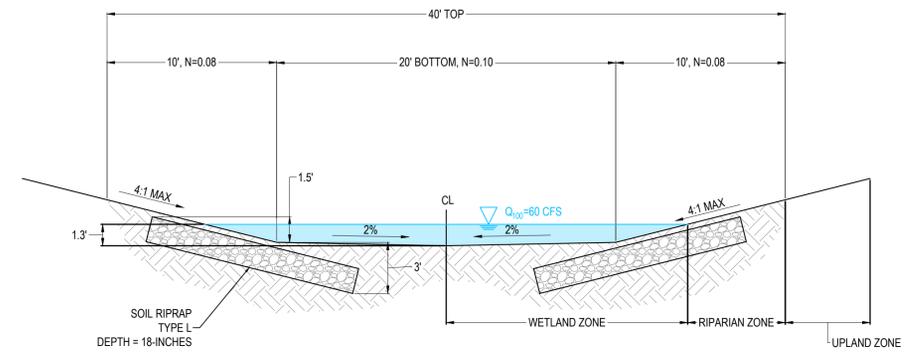
COLORADO SPRINGS AIRPORT
 BIG JOHNSON CHANNEL STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO
REVEGETATION PLAN

811

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS
BEFORE YOU DIG
CALL 811
(OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG

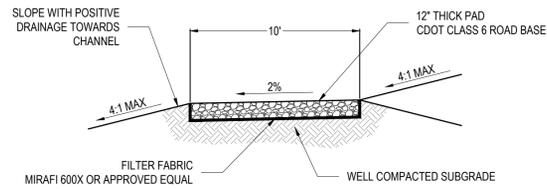


A BIG JOHNSON CHANNEL
TYPICAL SECTION
NTS



B BIG JOHNSON CHANNEL
TYPICAL SECTION
NTS

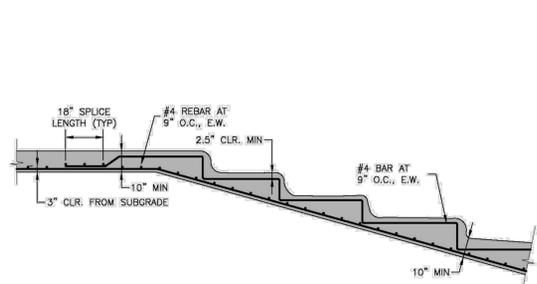
WARNING
THIS AREA IS A STORMWATER
FACILITY AND IS SUBJECT TO
PERIODIC FLOODING



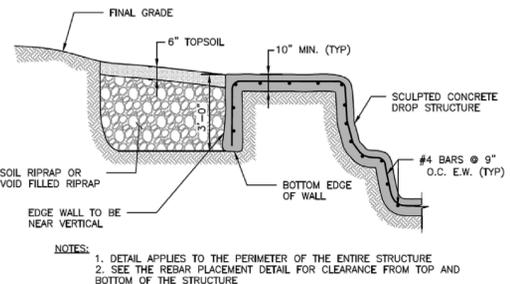
C MAINTENANCE TRAIL
TYPICAL SECTION
NTS

D CHANNEL SIGNAGE
TYPICAL DETAIL
NTS

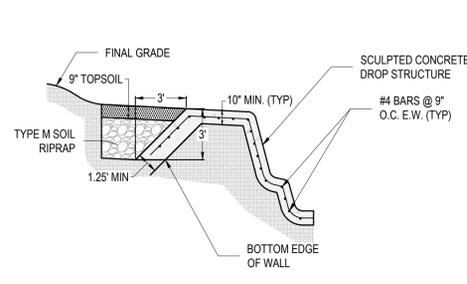
- NOTES:
- REFER TO PLAN VIEW FOR SIGN LOCATION
 - SIGN MUST CONTAIN RED LETTERING WITH WHITE BACKGROUND
 - SIGN SHALL BE FABRICATED FROM ALUMINUM SHEET METAL
 - MINIMUM SIGN AREA = 3 FT²
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION



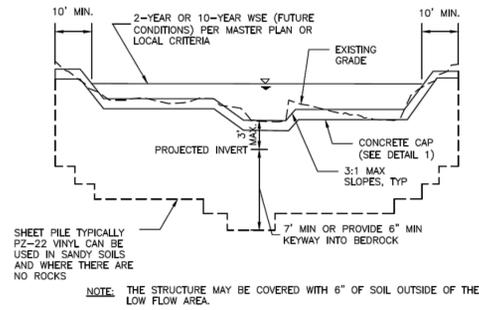
E REBAR PLACEMENT FOR DROP STRUCTURES (SC)
NTS



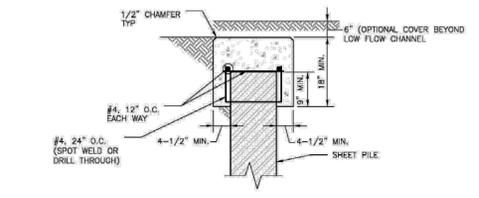
F STRUCTURE EDGE WALL DETAIL (SC)
NTS



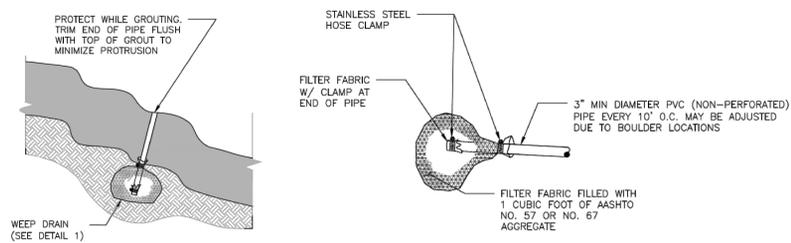
G EDGE WALL DETAIL (UPSTREAM OF DROP STRUCTURE)
TYPICAL SECTION
NTS



H SHEET PILE CHECK DETAIL
NTS



I CONCRETE SHEET PILE CAP
NTS



J WEEP DRAIN DETAIL (SC)
NTS

AMENDMENT

NO. DATE

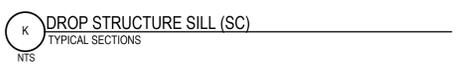
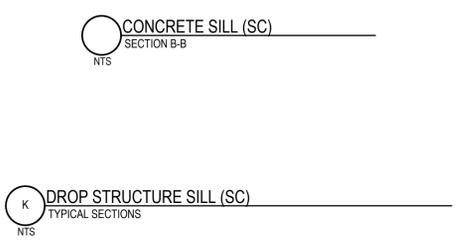
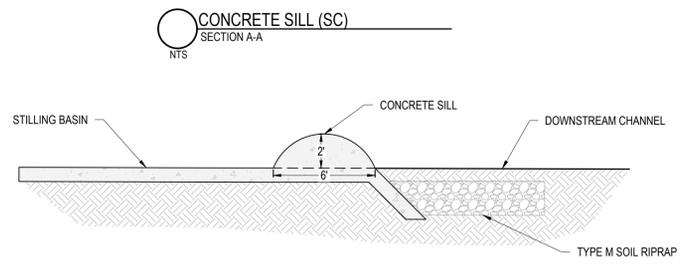
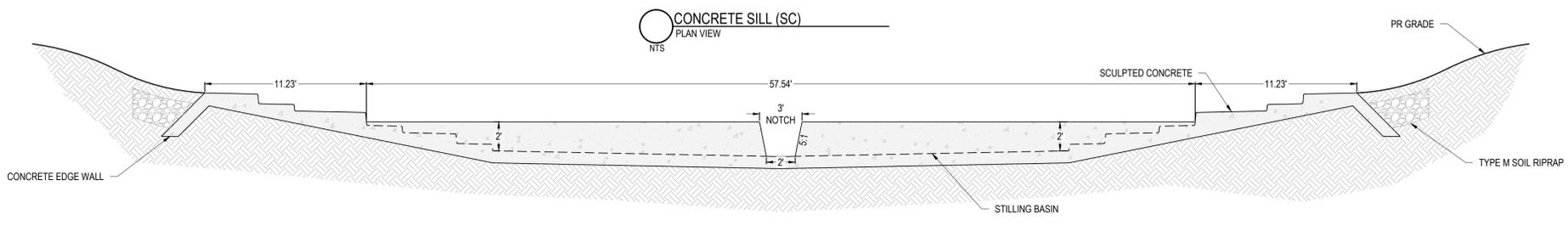
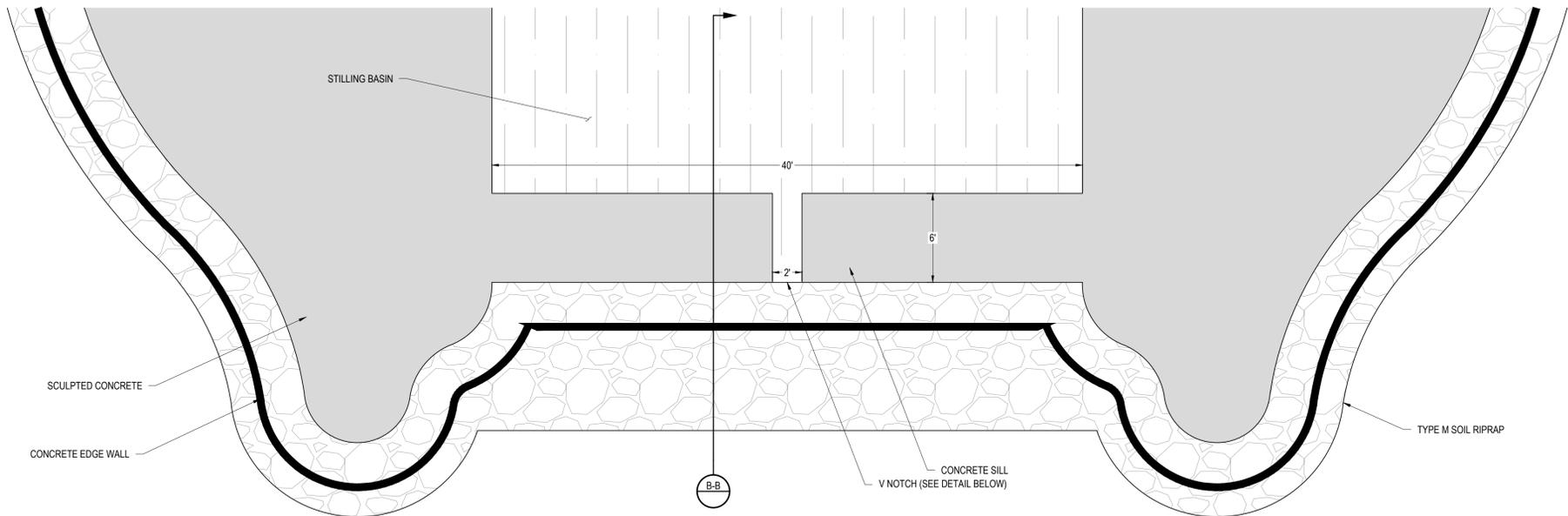


COLORADO SPRINGS AIRPORT
BIG JOHNSON CHANNEL STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO

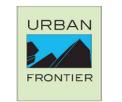
TYPICAL SECTIONS & DETAILS (1)

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE NOVEMBER 3, 2023
SHEET



AMENDMENT	NO.	DATE



COLORADO SPRINGS AIRPORT
 BIG JOHNSON CHANNEL STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO

TYPICAL SECTIONS & DETAILS (2)