

COLORADO SPRINGS AIRPORT

PONDS 500 & 600 DOWNSTREAM STABILIZATION PLANS

LOCATED IN A PORTION OF SECTIONS 4, 5, & 6, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPLE MERIDIAN,
LOCATED IN THE CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO.

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE ESTABLISHED CRITERIA FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

SIGNATURE: _____ DATE: _____

PRINTED NAME: JEFFREY M. MOHR

EMAIL ADDRESS: JEFF.MOHR@ENERTIACG.COM

DEVELOPER'S STATEMENT

COLORADO SPRINGS AIRPORT HEREBY CERTIFIES THAT THE CHANNEL STABILIZATION PLANS FOR DOWNSTREAM PONDS 500 & 600 SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN PRESENTED IN THIS PLAN. I UNDERSTAND THAT THE CITY OF COLORADO SPRINGS DOES NOT AND WILL NOT ASSUME LIABILITY FOR THE DRAINAGE FACILITIES DESIGNED AND/OR CERTIFIED BY MY ENGINEER AND THAT ARE SUBMITTED TO THE CITY OF COLORADO SPRINGS PURSUANT TO SECTION 7.4.701 OF THE CITY CODE; AND CANNOT, ON BEHALF OF DOWNSTREAM PONDS 500 & 600, GUARANTEE THAT THE FINAL DRAINAGE DESIGN REVIEW WILL ABSOLVE COLORADO SPRINGS AIRPORT AND / OR THEIR SUCCESSORS AND / OR ASSIGNS OF FUTURE LIABILITY FOR IMPROPER DESIGN.

NAME OF DEVELOPER/OWNER: COLORADO SPRINGS AIRPORT

AUTHORIZED SIGNATURE: _____ DATE: _____

PRINTED NAME: TROY STOVER

TITLE: AIRPORT BUSINESS PARK DIRECTOR EMAIL: TSTOVER@SPRINGSGOV.COM

ADDRESS: 30 S. NEVADA AVENUE, SUITE 604 PHONE: (719) 550-1967
COLORADO SPRINGS, CO 80903

OWNER'S STATEMENT

CYGNET LAND, LLC HEREBY CERTIFIES THAT THE CHANNEL STABILIZATION PLANS FOR DOWNSTREAM PONDS 500 & 600 SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN PRESENTED IN THIS PLAN. I UNDERSTAND THAT THE CITY OF COLORADO SPRINGS DOES NOT AND WILL NOT ASSUME LIABILITY FOR THE DRAINAGE FACILITIES DESIGNED AND/OR CERTIFIED BY MY ENGINEER AND THAT ARE SUBMITTED TO THE CITY OF COLORADO SPRINGS PURSUANT TO SECTION 7.4.701 OF THE CITY CODE; AND CANNOT, ON BEHALF OF DOWNSTREAM PONDS 500 & 600, GUARANTEE THAT THE FINAL DRAINAGE DESIGN REVIEW WILL ABSOLVE COLORADO SPRINGS AIRPORT AND / OR THEIR SUCCESSORS AND / OR ASSIGNS OF FUTURE LIABILITY FOR IMPROPER DESIGN.

NAME OF DEVELOPER/OWNER: CYGNET LAND, LLC

AUTHORIZED SIGNATURE: _____ DATE: _____

PRINTED NAME: RANDALL STEICHEN

TITLE: CO-MANAGER EMAIL: STEICHEN.RANDALL@GMAIL.COM

ADDRESS: _____ PHONE: _____

OWNER'S STATEMENT

WATERVIEW METROPOLITAN DISTRICT HEREBY CERTIFIES THAT THE CHANNEL STABILIZATION PLANS FOR DOWNSTREAM PONDS 500 & 600 SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN PRESENTED IN THIS PLAN. I UNDERSTAND THAT THE CITY OF COLORADO SPRINGS DOES NOT AND WILL NOT ASSUME LIABILITY FOR THE DRAINAGE FACILITIES DESIGNED AND/OR CERTIFIED BY MY ENGINEER AND THAT ARE SUBMITTED TO THE CITY OF COLORADO SPRINGS PURSUANT TO SECTION 7.4.701 OF THE CITY CODE; AND CANNOT, ON BEHALF OF DOWNSTREAM PONDS 500 & 600, GUARANTEE THAT THE FINAL DRAINAGE DESIGN REVIEW WILL ABSOLVE COLORADO SPRINGS AIRPORT AND / OR THEIR SUCCESSORS AND / OR ASSIGNS OF FUTURE LIABILITY FOR IMPROPER DESIGN.

NAME OF DEVELOPER/OWNER: WATERVIEW METROPOLITAN DISTRICT

AUTHORIZED SIGNATURE: _____ DATE: _____

PRINTED NAME: _____

TITLE: _____ EMAIL: _____

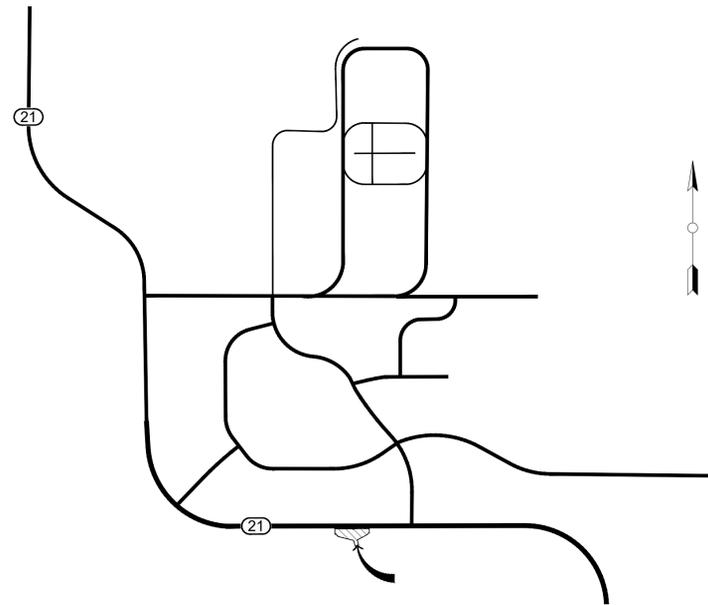
ADDRESS: _____ PHONE: _____

CITY OF COLORADO SPRINGS STATEMENT

FILED IN ACCORDANCE WITH SECTION 7.4.701 OF THE CODE OF THE CITY OF COLORADO SPRINGS, 2023, AS AMENDED.

FOR THE CITY ENGINEER: _____ DATE: _____

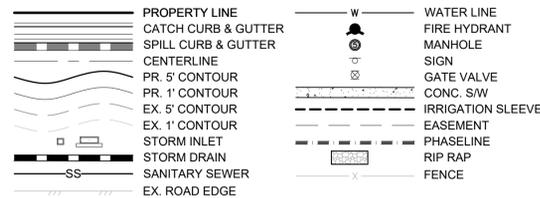
THE CITY OF COLORADO SPRINGS APPROVES THESE PLANS BASED UPON THE NON-JURISDICTIONAL STATUS OF THE FACILITY. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO FOLLOW UP WITH THE STATE DIVISION OF WATER RESOURCES FOR JURISDICTIONAL DETERMINATION. IF, UPON STATE REVIEW, THE CLASSIFICATION CHANGES TO JURISDICTIONAL, ADDITIONAL CITY REVIEW AND APPROVAL WILL BE NECESSARY.



VICINITY MAP

SCALE 1" = 2000'

GENERAL LEGEND



ABBREVIATIONS

AD = ANGLE DIFFERENCE	HP = HIGH POINT
BC = BOTTOM OF CURB	LIP = LIP OF CONCRETE
BOP = BOTTOM OF POND	LP = LOW POINT
BVC = BEGIN VERTICAL CURVE	M.E. = MATCH EXISTING
C&G = CURB & GUTTER	PC = POINT OF CURVATURE
CB = CATCHBASIN	PCC = POINT OF COMPOUND CURVATURE
CL = CENTERLINE	PI = POINT OF INFLECTION
EL = ELEVATION	PRC = POINT OF REVERSE CURVATURE
EOA = EDGE OF ASPHALT	ROW = RIGHT OF WAY
EVC = END VERTICAL CURVE	SD = STORM DRAIN
FES = FLARED END SECTION	SS = SANITARY SEWER
FG = FINISHED GRADE	SW = SIDEWALK
FH = FIRE HYDRANT	TOP = TOP OF POND
FL = FLOWLINE	WL = WATER LINE
GB = GRADE BREAK	

COLORADO SPRINGS STANDARD CHANNEL IMPROVEMENT NOTES

- THIS CHANNEL STABILIZATION PLAN WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY SWENT IF WORK ON THE CHANNEL IMPROVEMENTS DO NOT COMMENCE WITHIN TWELVE (12) MONTHS OF PLAN APPROVAL, OR SHOULD ANY OF THE FOLLOWING OCCUR: A CHANGE IN PROPERTY OWNERSHIP, PROPOSED DEVELOPMENT CHANGES, OR PROPOSED CHANNEL IMPROVEMENT REVISIONS.
- THE CONTRACTOR SHOULD CONTACT THE ENGINEER OF RECORD AND SWENT LEAD REVIEWER IMMEDIATELY SHOULD CONSTRUCTION OF THE CHANNEL STABILIZATION PLAN VARY IN ANY WAY FROM THE PLANS.
- A PROFESSIONAL ENGINEER (PE) CERTIFICATION THAT THE CHANNEL STABILIZATION PLAN HAS BEEN INSTALLED AND CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE PLANS WILL BE REQUIRED ONCE THE CHANNEL IMPROVEMENTS ARE FULLY CONSTRUCTED. AN AS-CONSTRUCTED SURVEY MUST BE COMPLETED TO VERIFY FACILITY VOLUMES AND ELEVATIONS. THE AS-BUILT DRAWINGS MUST BE SUBMITTED ALONG WITH THE PE CERTIFICATION. A PE CERTIFICATION REQUIRES PERIODIC ON-SITE OBSERVATIONS BY THE ENGINEER OF RECORD OR A PERSON UNDER THEIR RESPONSIBLE CHARGE. COORDINATION WITH THE ENGINEER OF RECORD TO ENSURE THAT THE NECESSARY ON-SITE OBSERVATIONS ARE COMPLETED IS THE RESPONSIBILITY OF THE APPLICANT.
- ACCEPTANCE OF THIS PLAN DOES NOT CONSTITUTE APPROVAL TO GRADE OR CAUSE ANY DISTURBANCE WITHIN IN ANY UTILITY EASEMENT OR RIGHT-OF-WAY. APPROVALS TO WORK WITHIN UTILITY EASEMENTS MUST BE OBTAINED FROM THE APPROPRIATE UTILITY COMPANY. IT IS NOT PERMISSIBLE FOR ANY PERSON TO MODIFY THE GRADE OF THE EARTH ON ANY UTILITY EASEMENT OR RIGHT-OF-WAY WITHOUT THE APPROPRIATE WRITTEN APPROVAL. THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARD 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 APPLICANT IS RESPONSIBLE FOR THE COST TO RELOCATE OR PROTECT EXISTING UTILITIES OR TO PROVIDE INTERIM ACCESS.

PROJECT DATA

- PARCEL NUMBER THAT CHANNEL STABILIZATION IS LOCATED IN:** 5500000380 (EL PASO COUNTY MAP NUMBER 55060)
- REPORT CONTAINING CHANNEL STABILIZATION DESIGN CALCULATIONS:** PONDS 500 & 600 DOWNSTREAM TRIBUTARY DESIGN REPORT PREPARED BY OLSSON DATE FEBRUARY, 2025.
- NAME OF THE GRADING AND EROSION CONTROL PLAN:** COSA PONDS 500 & 600 DOWNSTREAM STABILIZATION GRADING AND EROSION CONTROL PLAN PREPARED BY ENERTIA CONSULTING GROUP LLC.
- FUNCTIONAL MAINTENANCE OF THE CHANNEL STRUCTURES TO BE COMPLETED BY:** PEAK METRO DISTRICT #2
- AESTHETIC MAINTENANCE OF THE CHANNEL TO BE COMPLETED BY:** PEAK METRO DISTRICT #2
- FLOODPLAIN ZONE:** OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FEMA FIRM NUMBER 08041C0764G, DATED DECEMBER 7, 2018.

BENCHMARK

BENCH MARK: #5 REBAR LOCATED APPROXIMATELY 75' SOUTHEAST OF THE SOUTHEAST CORNER OF THE LIFT STATION BUILDING MARKED WITH 4' CROSS LATH.

NORTHING: 62654.52
EASTING: 29107.44
ELEVATION: 5924.01

DATUM: NAVD 88

SHEET INDEX

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2	GENERAL NOTES
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6	OVERALL GRADING PLAN
7	DETAILED GRADING PLAN
8	HORIZONTAL CONTROL PLAN
9	REVEGETATION PLAN
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PROJECT TEAM

OWNER WATERVIEW METROPOLITAN DISTRICT 2370 ANTELOPE RIDGE TRAIL PARKER, COLORADO 80138	DEVELOPER COLORADO SPRINGS AIRPORT 30 S. NEVADA AVENUE, SUITE 604 COLORADO SPRINGS, CO 80903 CONTACT: TROY STOVER (719) 550-1967
OWNER CYGNET LAND, LLC CONTACT: RANDALL STEICHEN	WATER RESOURCES OLSSON 1525 N. RALEIGH ST, SUITE 400 DENVER, CO 80204 CONTACT: TIM FRY, PhD PE (303) 237-2072
ENGINEER ENERTIA CONSULTING GROUP, LLC 1515 MARKET STREET DENVER, CO 80202 CONTACT: JEFF MOHR, PE (720) 250-8305	SURVEYOR POLARIS SURVEYING, INC. 1903 LELARAY STREET, SUITE 102 COLORADO SPRINGS, CO 80909 CONTACT: RANDALL HENCY, PLS (719) 448-0844

CONSTRUCTION COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL COST
CONCRETE FOREBAY	2	EA	\$ 15,000.00	\$ 30,000.00
			STM-1.0 TOTAL =	\$ 30,000.00
			STORM CONVEYANCE & POND SUB-TOTAL =	\$ 30,000.00
			10% CONTINGENCY =	\$ 3,000.00
			TOTAL =	\$ 33,000.00

NOTES:

- This Engineer's Estimate is based on plan sets titled "Colorado Springs Airport Pond 500 & 600 Downstream Stabilization Civil Construction Plans" prepared by Eneria Consulting Group, LLC.
- This estimate provides an approximate cost of construction for the items listed and was prepared based on the most accurate information available to the Engineer. This is provided for information purposes only, and in no way guarantees these cost as actual construction cost for the Project.

AMENDMENT									
NO.									
DATE									



COLORADO SPRINGS AIRPORT
PONDS 500 & 600 DOWNSTREAM STABILIZATION
CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO

COVER 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

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

DATE: FEBRUARY 28, 2025

SHEET: 1 OF 14

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 M&S 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. RESETTING 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 POTHoles 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

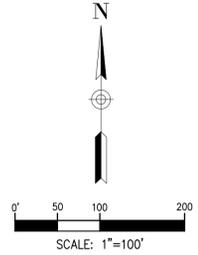
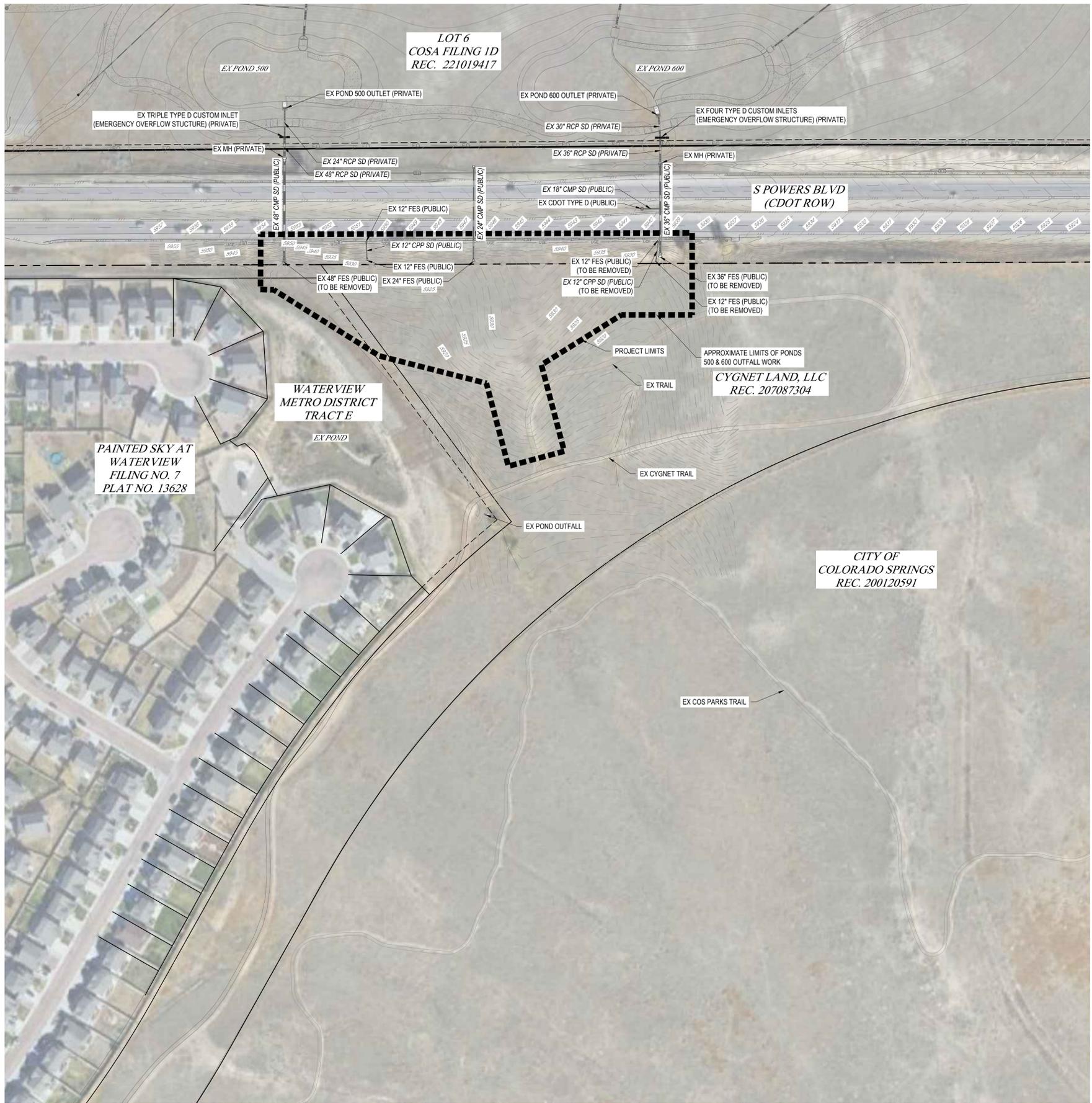
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND REPAIR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION, WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL CONTACT ALL RESPECTIVE UTILITIES AND HAVE ALL UTILITIES FIELD LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTORS 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.

AMENDMENT									
DATE									
NO.									



COLORADO SPRINGS AIRPORT
 PONDS 500 & 600 DOWNSTREAM 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



LEGEND

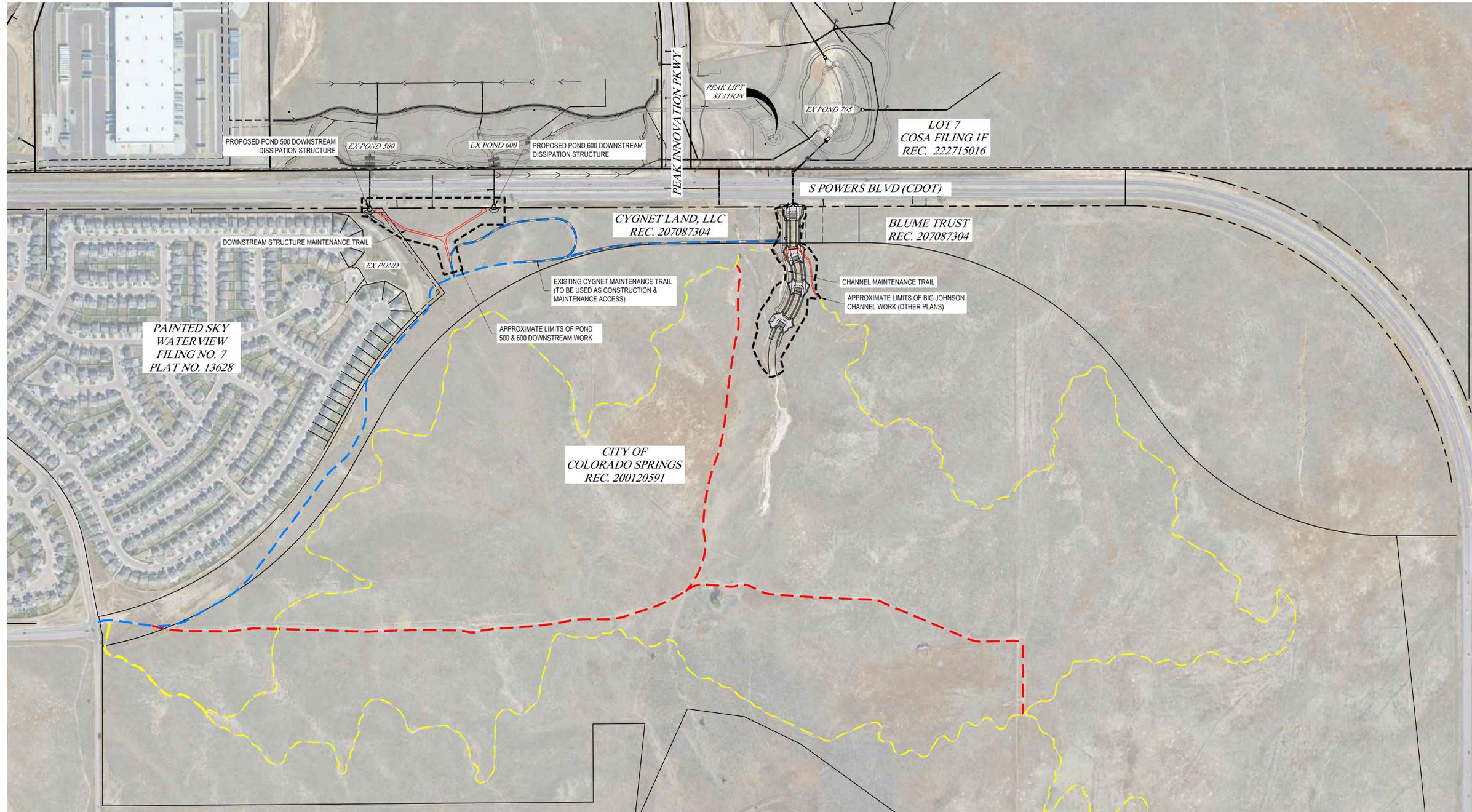
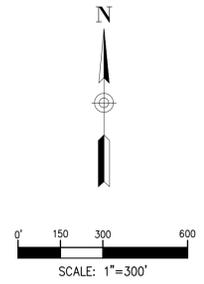
	PR. 5' CONTOUR
	PR. 1' CONTOUR
	EX. 5' CONTOUR
	EX. 1' CONTOUR
	EX. STORM DRAIN

AMENDMENT	
NO.	DATE
COLORADO SPRINGS AIRPORT PONDS 500 & 600 DOWNSTREAM STABILIZATION CIVIL CONSTRUCTION PLANS COLORADO SPRINGS, COLORADO	
EXISTING CONDITIONS & DEMOLITION PLAN	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	FEBRUARY 28, 2025
SHEET	3 OF 14

FOR BURIED UTILITY INFORMATION
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 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
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- LEGEND**
- EX. COS PARKS PEDESTRIAN TRAIL
 - EX. COS PARKS MAINTENANCE TRAIL
 - EX. CYGNET MAINTENANCE TRAIL (PROPOSED CONSTRUCTION ACCESS)
 - PROPOSED CHANNEL MAINTENANCE TRAIL



AMENDMENT

NO. DATE

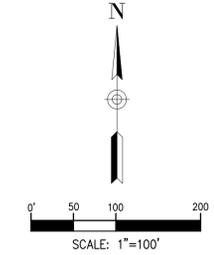
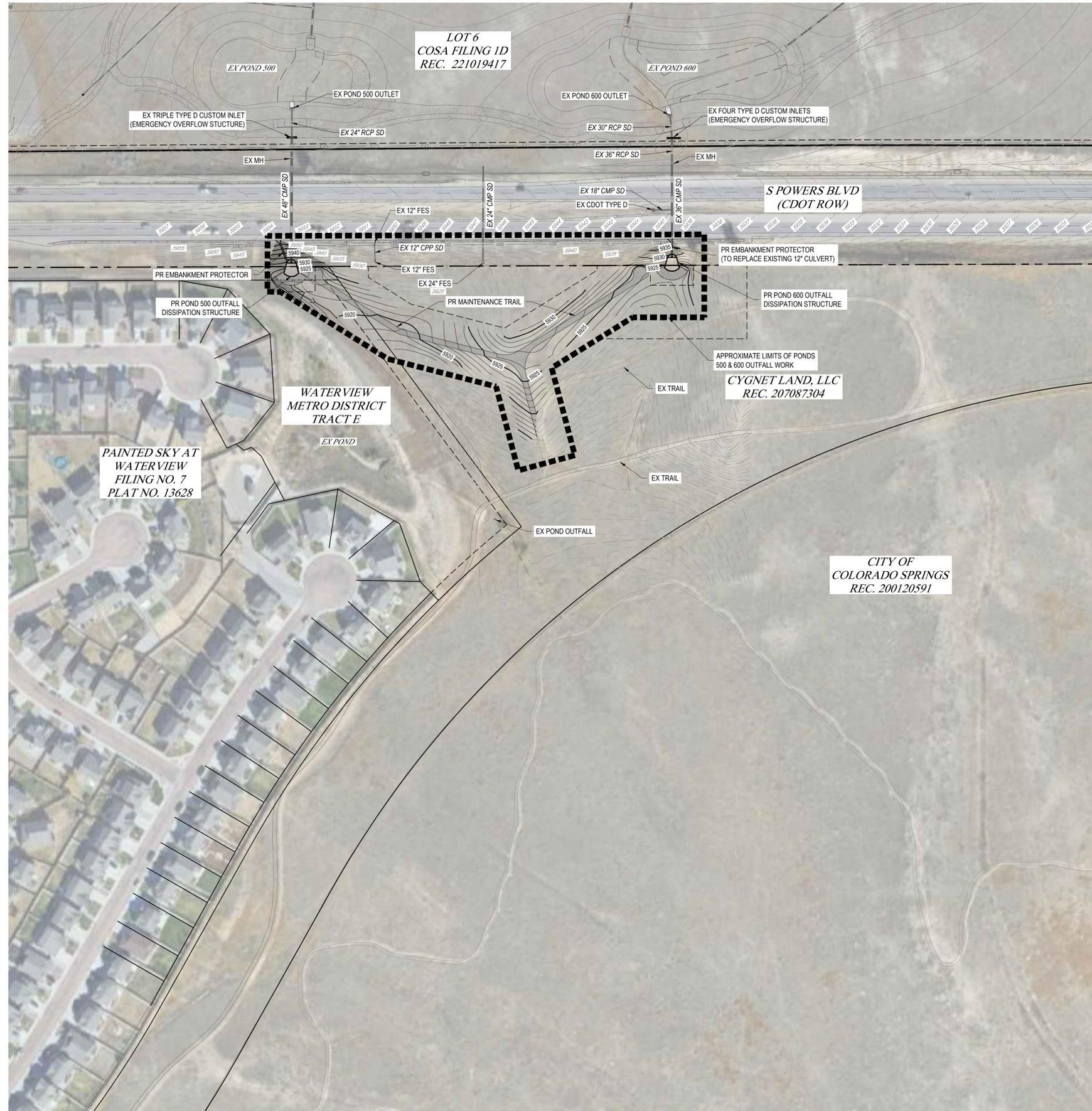


COLORADO SPRINGS AIRPORT
 PONDS 500 & 600 DOWNSTREAM STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO

OVERALL TRAIL PLAN

811 FOR BURIED UTILITY INFORMATION
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 (OR 1-800-922-1987)
 UTILITY NOTIFICATION
 CENTER OF COLORADO (UNCC)
 WWW.UNCC.ORG

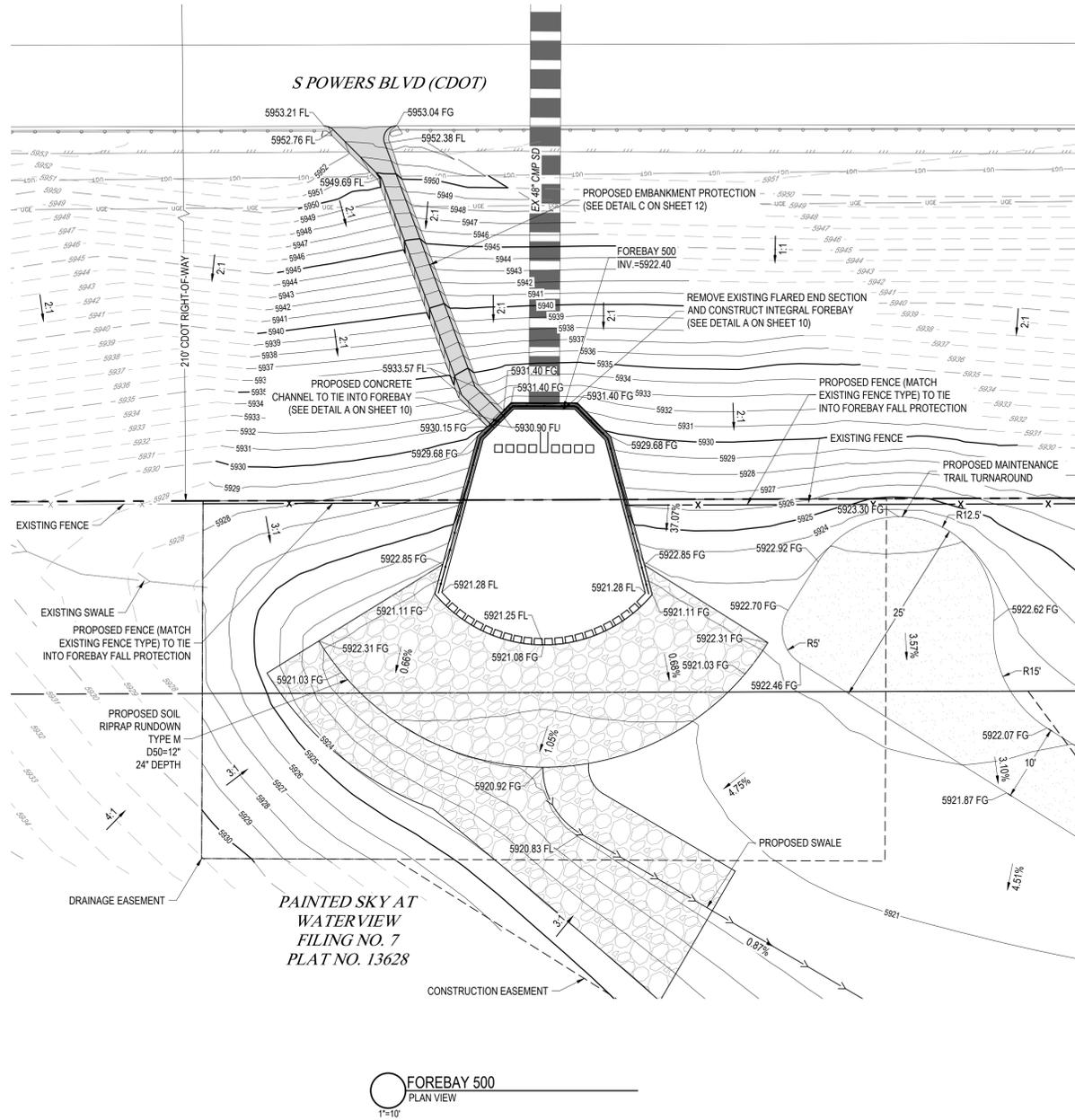
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 DATE: FEBRUARY 28, 2025
 SHEET
4 OF 14



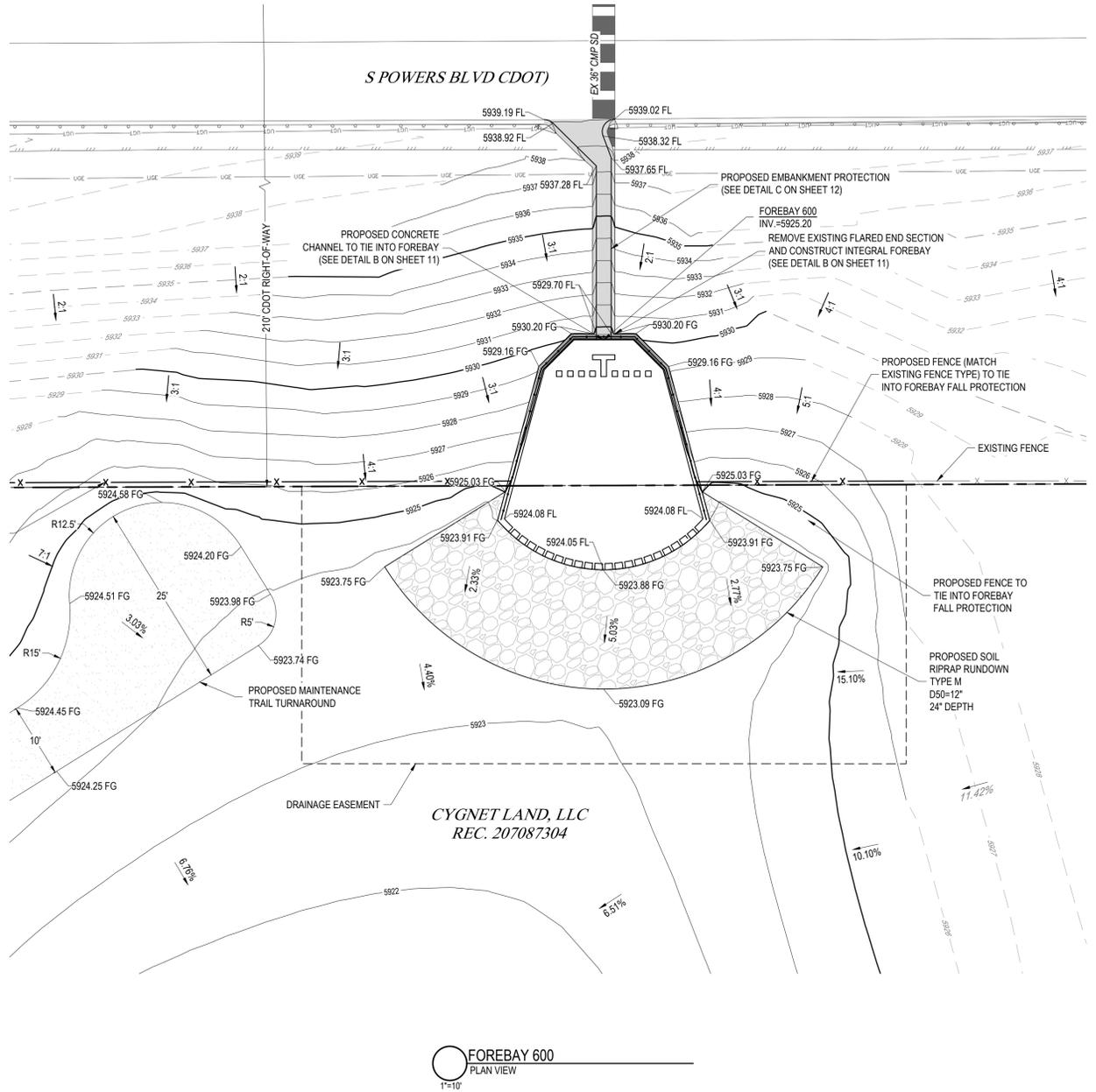
LEGEND

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

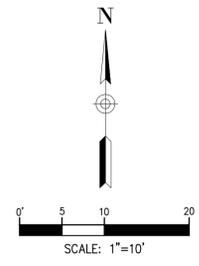
AMENDMENT	
NO.	DATE
COLORADO SPRINGS AIRPORT PONDS 500 & 600 DOWNSTREAM STABILIZATION CIVIL CONSTRUCTION PLANS COLORADO SPRINGS, COLORADO	
OVERALL SITE PLAN	
FOR BURIED UTILITY INFORMATION THREE (3) BUSINESS DAYS BEFORE YOU DIG CALL 811 <small>(OR 1-800-922-1987)</small> UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) <small>WWW.UNCC.ORG</small>	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING DATE: FEBRUARY 28, 2025 SHEET	
5 OF 14	



FOREBAY 500
PLAN VIEW
1"=10'



FOREBAY 600
PLAN VIEW
1"=10'



FOR BURIED UTILITY INFORMATION
811
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

PEAK
INNOVATION PARK

COLORADO SPRINGS AIRPORT

ENERTIA
CONSULTING GROUP LLC

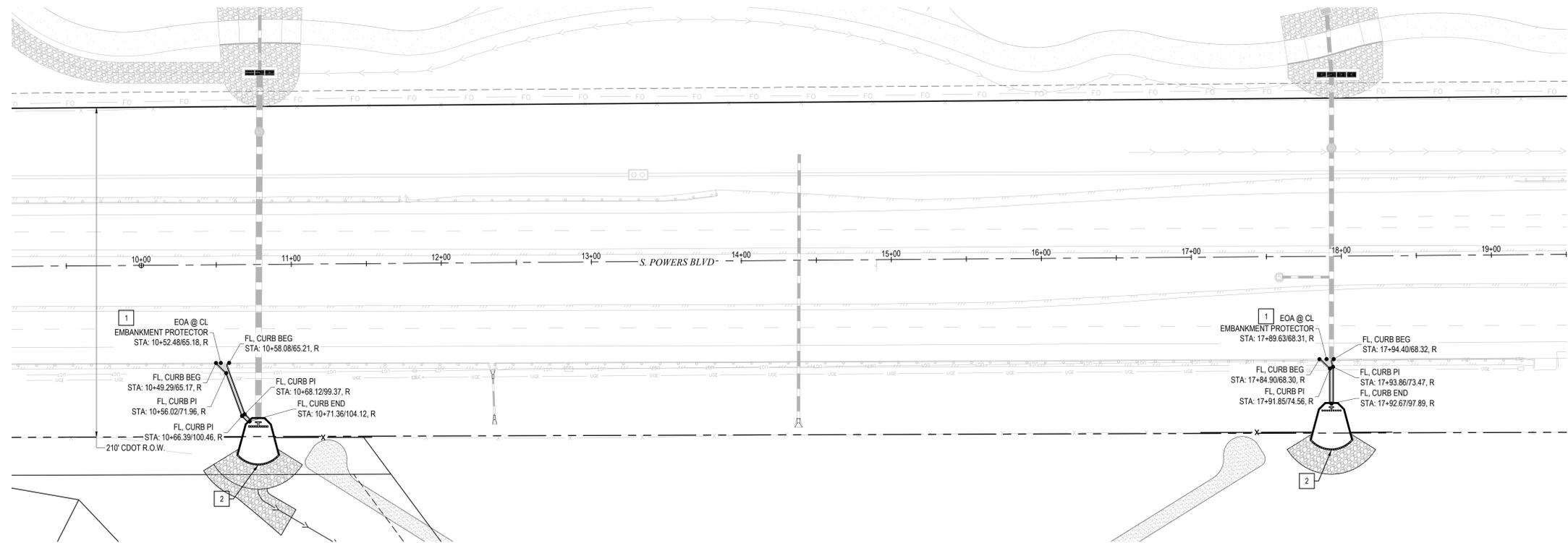
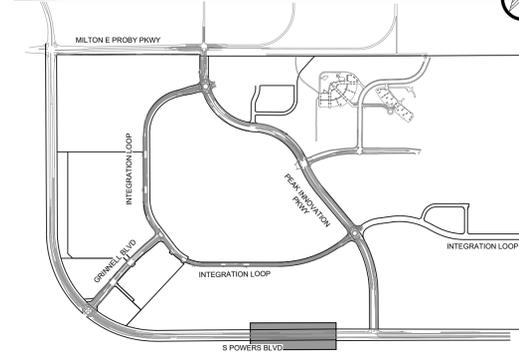
COLORADO SPRINGS AIRPORT
PONDS 500 & 600 DOWNSTREAM STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO

DETAILED GRADING PLAN

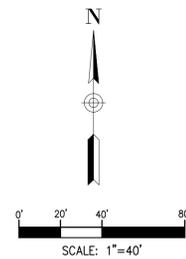
HORIZONTAL CONTROL PLAN CALLOUTS

- 1 EMBANKMENT PROTECTOR. SEE DETAIL ON SHEET 12.
- 2 DOWNSTREAM DISSIPATION FOREBAY. SEE DETAIL ON SHEET 10 & 11.

KEY MAP



PLAN: S. POWERS BLVD
HORIZONTAL SCALE: 1" = 40'



811 FOR BURIED UTILITY INFORMATION
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UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
WWW.UNCC.ORG

AMENDMENT											
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NO.											
DATE											

PEAK
INNOVATION PARK

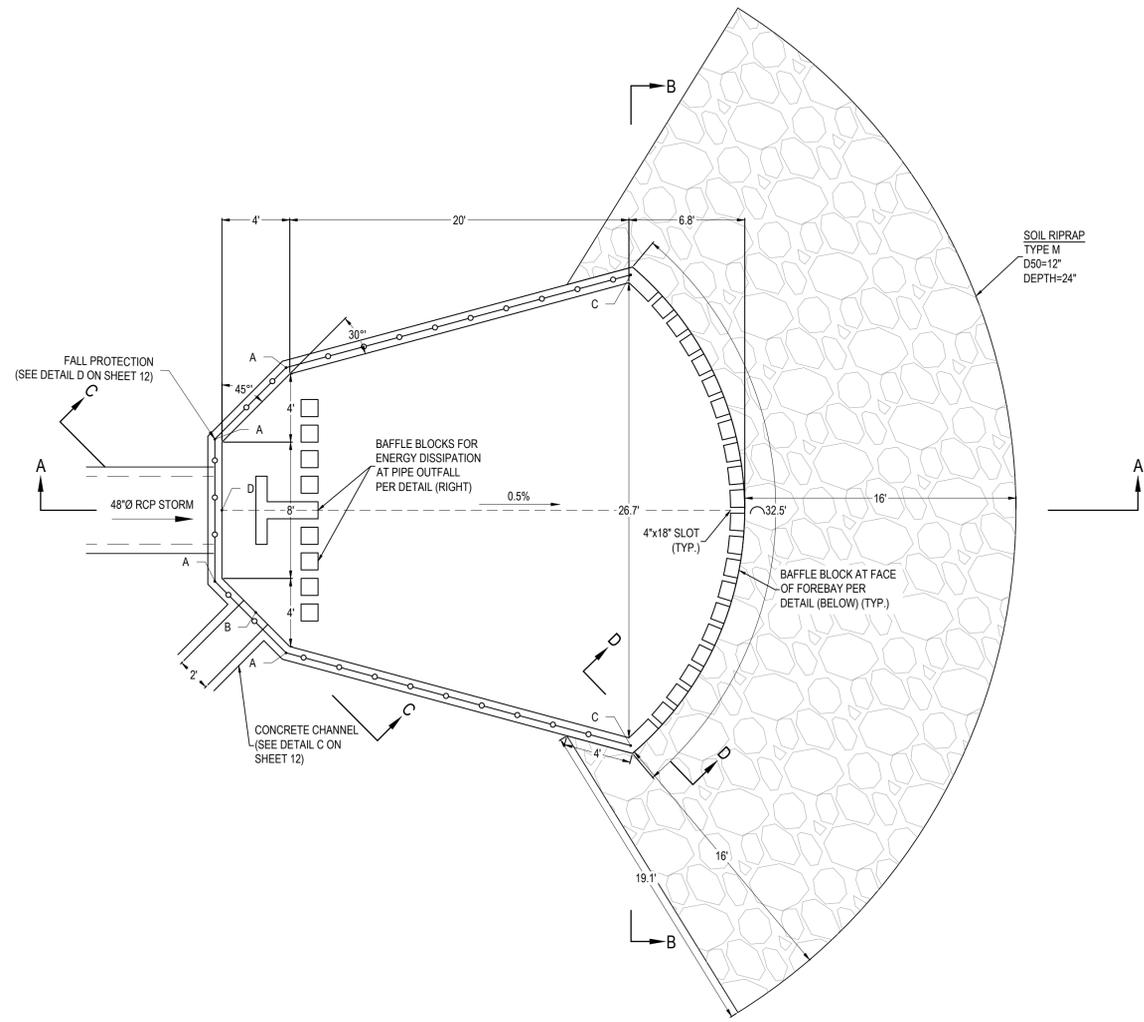
COLORADO SPRINGS AIRPORT

ENERTIA
CONSULTING GROUP LLC

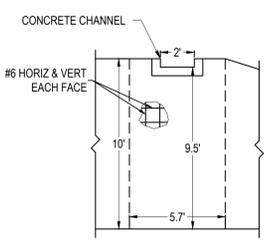
COLORADO SPRINGS AIRPORT
PONDS 500 & 600 DOWNSTREAM STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO

HORIZONTAL CONTROL PLAN

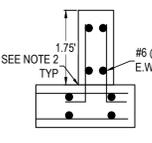
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE: FEBRUARY 28, 2025
SHEET: **8 OF 14**



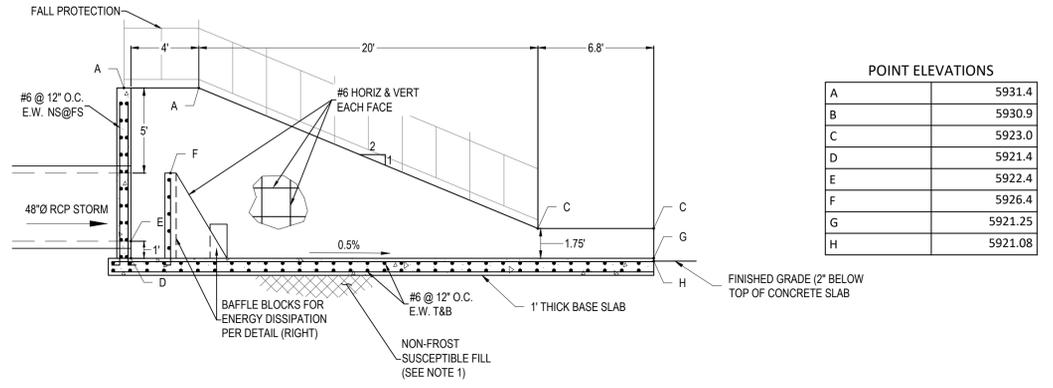
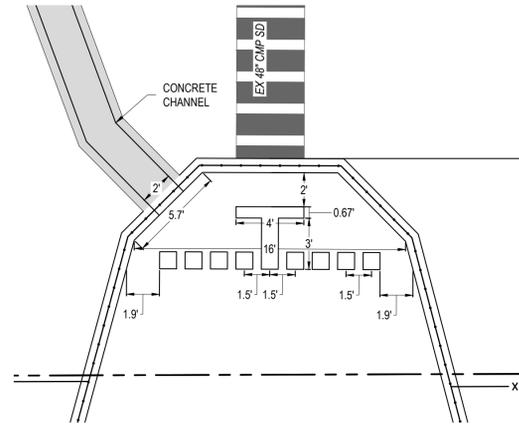
PLAN VIEW



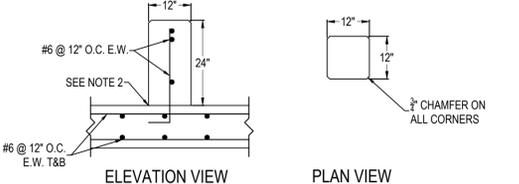
SECTION C-C



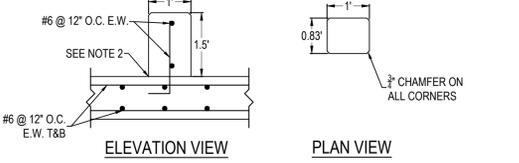
SECTION D-D



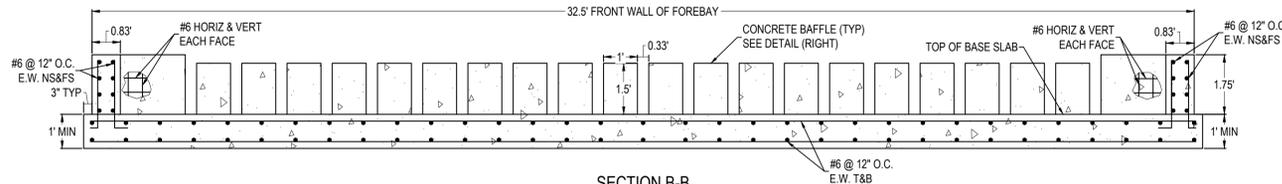
SECTION A-A



BAFFLE BLOCKS (AT PIPE OUTFALL)



BAFFLE BLOCKS (FRONT WALL OF FOREBAY)



SECTION B-B

NOTES:
1. REFER TO INTEGRAL FOREBAY NOTES ON SHEET 13.

A INTEGRAL FOREBAY - POND 500 DOWNSTREAM
TYPICAL DETAIL
NTS

AMENDMENT

NO. DATE

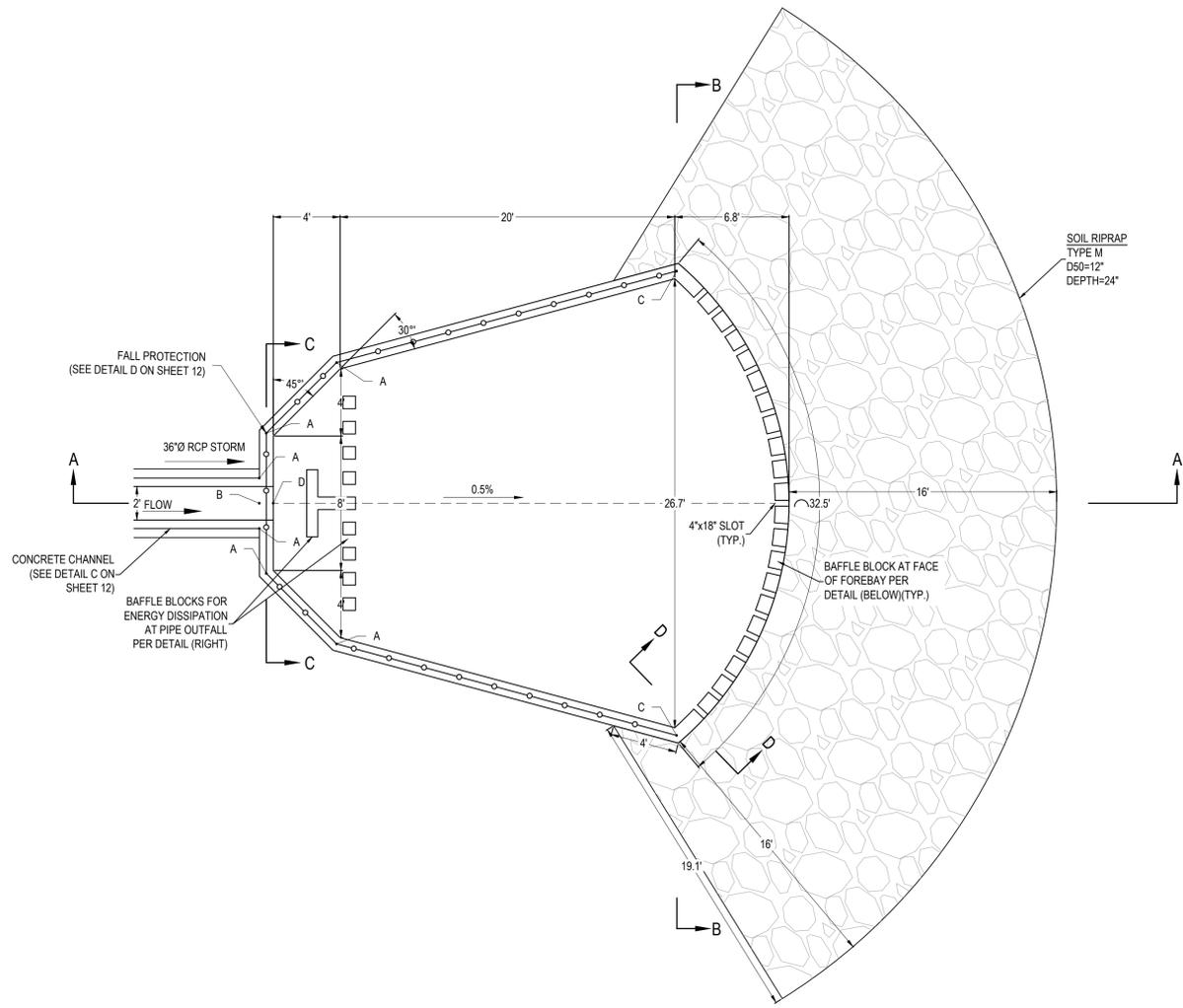


COLORADO SPRINGS AIRPORT
PONDS 500 & 600 DOWNSTREAM STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO
TYPICAL DETAILS (1)

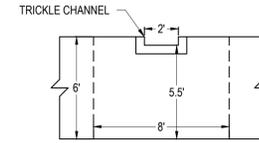
VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"

DATE FEBRUARY 28, 2025
SHEET

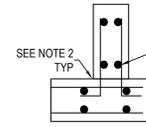
10 OF 14



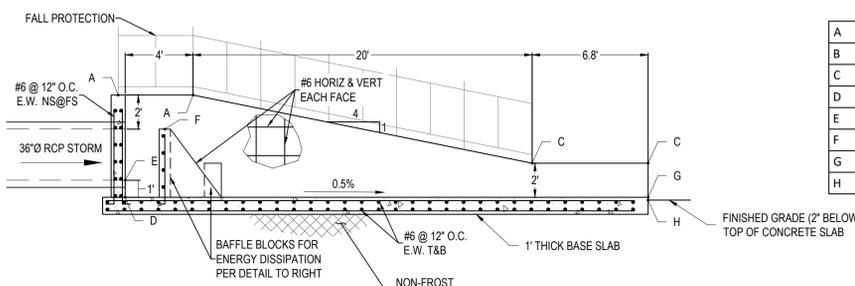
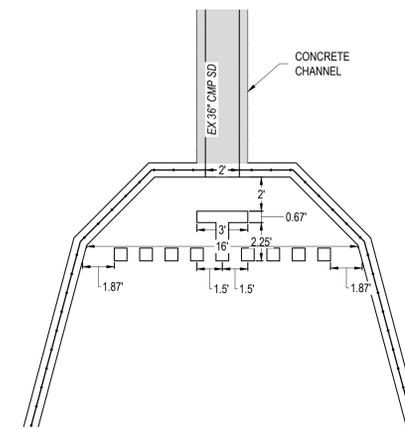
PLAN VIEW



SECTION C-C

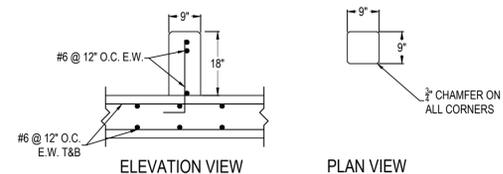


SECTION D-D



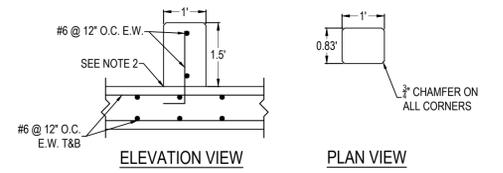
SECTION A-A

POINT ELEVATIONS	
A	5930.2
B	5929.7
C	5926.05
D	5924.2
E	5925.25
F	5928.2
G	5924.05
H	5923.88



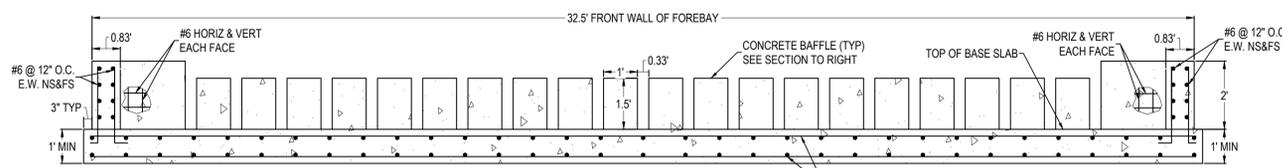
BAFFLE BLOCKS (AT PIPE OUTFALL)

NOTES:
1. REFER TO INTEGRAL FOREBAY NOTES ON SHEET 4.



BAFFLE BLOCKS (FRONT WALL OF FOREBAY)

NOTES:
1. REFER TO INTEGRAL FOREBAY NOTES ON SHEET 13.



SECTION B-B

B INTEGRAL FOREBAY - POND 600 DOWNSTREAM
TYPICAL DETAIL

AMENDMENT

NO. DATE



COLORADO SPRINGS AIRPORT
PONDS 500 & 600 DOWNSTREAM STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO

TYPICAL DETAILS (2)

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

DATE FEBRUARY 28, 2025
SHEET

DESIGN DATA

- 1. THE DESIGN OF THE STRUCTURE AND PARTS THEREOF IS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, AS AMENDED AND ADOPTED BY COLORADO SPRINGS, CO (PIKES PEAK REGIONAL CODE).
2. LIVE LOADS : FLUID WEIGHT ABOVE OUTLET TO SPILLWAY
3. SNOW LOADS: 30 PSF
SNOW EXPOSURE FACTOR, Ce 1
SNOW LOAD IMPORTANCE FACTOR, 1
THERMAL FACTOR, Ct 1
4. WIND DESIGN DATA:
BASIC WIND SPEED (UI) 130 MPH
WIND IMPORTANCE FACTOR, I 1.0
OCCUPANCY CATEGORY II
WIND EXPOSURE C
INTERNAL PRESSURE COEF. +/- 0.18
COMPONENTS AND CLADDING PER ASCE 7
5. SEISMIC LOADS:
SEISMIC DESIGN CATEGORY: B
IMPORTANCE FACTOR: 1.25
SPECTRAL RESPONSE ACCELERATIONS: Ss = .2186
Si = .5933
SPECTRAL RESPONSE COEFFICIENTS: SDS = .233
SD1 = .095
SEISMIC RESPONSE COEFFICIENT: CS = .1865

GENERAL NOTES

- 1. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE, WEIGHT, LOCATION, AND SUPPORT CONDITIONS OF ALL MECHANICAL EQUIPMENT SUPPORTED ON OR SUSPENDED FROM THE ROOF OR SUSPENDED FLOORS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. PRINCIPAL OPENINGS ARE SHOWN ON THESE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, INSERTS AND OTHER OPENINGS NOT SHOWN. IF OPENINGS MUST PENETRATE A STRUCTURAL ELEMENT, THE GENERAL CONTRACTOR SHALL VERIFY THE ADEQUACY OF SUCH MEMBERS PRIOR TO CONSTRUCTION.
3. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL WALL AND FOOTING STEPS
4. THE CONTRACTOR SHALL COMPARE STRUCTURAL DIMENSIONS AND SECTIONS WITH ARCHITECTURAL DIMENSIONS AND SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
5. ALL TEMPORARY SHORING AND BRACING OF WALLS DURING CONSTRUCTION, PRIOR TO THE COMPLETION OF ALL BRACING ELEMENTS, IS THE RESPONSIBILITY OF THE CONTRACTOR. SHORE ALL WALLS DURING THE BACKFILLING AND COMPACTION PROCESS.
6. THE GENERAL CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH THE CONSTRUCTION OF ADJACENT STRUCTURES. NOTIFY THE ARCHITECT OF ANY CONFLICTING REQUIREMENTS PRIOR TO CONSTRUCTION.
7. SELECTION OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND/OR PROCEDURES, AS WELL AS SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES. AS SUCH, ANY REQUIRED CONSTRUCTION ENGINEERING AND/OR DESIGN RESULTING FROM THESE SELECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. DIMENSIONS TO EXISTING OR ADJACENT CONSTRUCTION ARE BASED ON THE ORIGINAL CONSTRUCTION DOCUMENTS AND/OR APPROXIMATE FIELD MEASUREMENTS. THEY ARE TO BE USED FOR BID PURPOSES ONLY AND NOT FOR SHOP DRAWING PREPARATION OR CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FIT UP OF MEMBERS FRAMING TO AND AROUND EXISTING CONSTRUCTION.

GEOTECHNICAL INFORMATION

- 1. THE GEOTECHNICAL ENGINEER OF RECORD (GER) IS SOLELY RESPONSIBLE FOR ESTABLISHING FOUNDATION, SLAB-ON-GRADE AND PAVEMENT DESIGN CRITERIA, AND FOR THE CONSTRUCTION RECOMMENDATIONS FOR EXCAVATION, SUBGRADE PREPARATION, BACKFILLING AND COMPACTION.
2. GEOTECHNICAL INFORMATION INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS IS INTENDED TO REPLICATE THE RECOMMENDATIONS STATED IN THE GEOTECHNICAL ENGINEERING REPORT. PRESENTATION OF THIS INFORMATION IN THE STRUCTURAL DOCUMENTS DOES NOT DEMONSTRATE, STATE OR IMPLY GEOTECHNICAL EXPERTISE ON THE PART OF MCCLISH STRUCTURAL CONSULTING. THE CONTRACTOR SHALL OBTAIN A COPY OF THE REPORT AND COMPLY WITH THE RECOMMENDATIONS INDICATED THEREIN.
3. IF DISCREPANCIES BETWEEN THE REPORT AND CONSTRUCTION DOCUMENTS ARE DISCOVERED, THE REPORT SHALL GOVERN. ALL CLARIFICATIONS AND INTERPRETATIONS OF THE REPORT SHALL BE MADE BY THE GER AND REPORTED TO THE ARCHITECT FOR COORDINATION WITH THE DESIGN TEAM.

FOUNDATION NOTES

- 1. FOUNDATION ALLOWABLE DESIGN SOIL VALUES FOR NEW FOOTINGS:
CONTINUOUS FOOTING BEARING - 2 ksf
ISOLATED FOOTING BEARING - 2 ksf
2. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON GEOTECHNICAL REPORT # 1844322 PREPARED FOR THIS PROJECT BY ATLAS AND DATED JANUARY 25, 2023.
3. ALL FOOTING EXCAVATIONS SHALL BE CLEANED TO REMOVE ALL LOOSE SOIL MATERIAL AND OTHER DEBRIS AND SHOULD NOT BE ALLOWED TO DESICCATE PRIOR TO PLACEMENT OF CONCRETE.
4. CONCRETE FOR FOUNDATIONS SHALL BE FORMED ON THE SIDES (EARTH FORMED FOUNDATIONS WILL NOT BE ALLOWED). PROPERLY PLACE AND COMPACT FILL MATERIAL AROUND SIDES OF FOOTINGS.

ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER.

TRENCH SAFETY

- 1. THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY DESIGN DOCUMENTS PREPARED AND SEALED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER AS REQUIRED BY ALL LOCAL AND STATE LAWS. SAID ENGINEER SHALL ALSO BE RESPONSIBLE FOR ON SITE OBSERVATIONS. THE TRENCH SAFETY DESIGN DOCUMENTS SHALL BE FILED WITH THE APPROPRIATE GOVERNMENT AGENCY. THE CONTRACTOR SHALL FURNISH A SEPARATE AND DISTINCT PRICE FOR TRENCH SAFETY SYSTEM THAT MEETS OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION STANDARDS.

CONCRETE NOTES

- 1. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE AGGREGATES AND THE DESIGNATED COMPRESSIVE STRENGTH IN 28 DAYS UNLESS NOTED OTHERWISE. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33. LIGHTWEIGHT AGGREGATES SHALL CONFORM TO ASTM C330. LIGHTWEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 120 pcf.
FOOTINGS AND FOUNDATION WALLS ----- fc=4000 psi
ALL OTHER CONCRETE ----- fc=4000 psi
2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318
3. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS: REFER TO SECTION 7.7 ACI 318 FOR CONDITIONS NOT NOTED.
SLABS-ON-GRADE ----- CENTERED
COLUMNS ----- 1 1/2"
SLABS ABOVE GRADE ----- 3/4"
CONCRETE JOISTS ----- 1"
BEAMS ABOVE GRADE ----- 1 1/2"
WALL PANELS ----- 1 1/2"
4. MAXIMUM NOMINAL COARSE AGGREGATE SIZE SHALL BE 1" MAX UNLESS NOTED OTHERWISE.
5. CONCRETE SLUMPS SHALL BE AS FOLLOWS:
PIERS ----- 7" MAX, 5" MIN
ALL OTHER CONCRETE ----- 5" MAX, 2" MIN
6. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS WITH VERTICAL BULK HEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
7. ALL GRADE BEAMS, CAST IN PLACE WALLS AND PIER CAPS SHALL BE FORMED ON SIDES. ALL ELEMENTS OF THE FORMS, FORMWORK, BRACING AND SHORING SHALL CONSIST OF WOOD, METAL OR OTHER MANUFACTURED PRODUCTS AS SPECIFIED. EARTH MAY NOT BE USED AS A FORM, EITHER DIRECTLY OR INDIRECTLY. NEITHER EARTH TRENCHES NOR EARTH TRENCHES LINED WITH ANOTHER MATERIAL ARE ACCEPTABLE.
8. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED AS FOLLOWS:
3/4" NOMINAL AGGREGATE SIZE 4% TO 8%
1" NOMINAL AGGREGATE SIZE 3.5% TO 6.5%
1 1/2" NOMINAL AGGREGATE SIZE 3% TO 6%

REINFORCING STEEL NOTES

- 1. ALL REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
2. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
3. DETAILING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
4. REINFORCING BARS MAY BE SPLICED ONLY AS SHOWN ON THE DRAWINGS EXCEPT THAT REINFORCING DESIGNATED AS "CONTINUOUS" MAY BE CONTACT LAP SPLICED 30 BAR DIAMETERS. LAP SPLICES OF CONTINUOUS GRADE BEAM REINFORCING SHALL BE MADE OVER SUPPORTS FOR BOTTOM AND INTERMEDIATE BARS AND AT MIDSPAN FOR TOP BARS. AT GRADE BEAM END SUPPORTS, TOP BARS SHALL BE HOOKED DOWN AND BOTTOM BARS SHALL BE HOOKED UP.
5. PROVIDE CORNERS BARS OF SAME SIZE AND QUANTITY AS CONTINUOUS TOP AND BOTTOM REINFORCING OF GRADE BEAMS AT ALL GRADE BEAM CORNERS AND INTERSECTIONS.

REBAR DOWEL OR ADHESIVE ANCHORS

- 1. DOWELING/ANCHORING ADHESIVE: "HII-RE 500 SD" EPOXY AS MANUFACTURED BY HILTI.
2. DRILL HOLES IN CURED CONCRETE WITH CARBIDE-TIPPED DRILL BITS CONFORMING TO ANSI B212.15 AND BLAST CLEAN - HOLE DIAMETER PER HILTI.
3. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS, AND LATEST ICC EVALUATION SERVICES, INC. ES REPORT (ESR-2508).

CONCRETE ACCESSORIES

- 1. REFERENCES:
1.1. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
2. EXPANSION JOINT MATERIAL:
2.1. ASTM D994 ASPHALT FIBER TYPE.
2.2. ASTM D1752, TYPE 1 (SPONGE RUBBER) OR CLOSED CELL PLASTIC FOAM, (PVC OR POLYETHYLENE) PREFORMED FILLERS.
3. JOINT SEALANT: SILICONE BASE SUCH AS DOW 888 UNLESS NOTED OTHERWISE.
4. VOID FORM MATERIAL SHALL BE BY "SURE VOID" OR APPROVED EQUAL KEEP VOID FORM MATERIAL DRY DURING PLACEMENT. AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4.1. PROVIDE AND INSTALL BACKFILL RETAINER BOARDS.
5. WATER STOPS: SEE DRAWINGS FOR TYPE
5.1. GENERAL: PVC RIBBED WITH CENTER BULB BY GREENSTREAK, STYLE 702.
5.2. CHEMICAL RESISTANT: ENVIROSTOP "TPE-R" STYLE NO. 618 BY WESTEC, 4" RIBBED WITH CENTER BULB. MITER CUT AND SPLICE BY HEAT WELDING AT DIRECTION CHANGES AND INTERSECTIONS TO MAINTAIN ALIGNMENT AND CONTINUITY OF THE RIBS AND CENTER BULB.
5.3. SELF EXPANDING: VOLCLAY RX-101 WITH CONCRETE PRIMER.

CONCRETE BONDING AGENT

- 1. STRUCTURAL BONDING AGENT FOR CONCRETE: THREE-COMPONENT WATER BASED EPOXY RESIN/PORTLAND CEMENT TYPE "ARMATEC 110" BY SIKA CORP OR "CORR-BOND" AS MANUFACTURED BY EUCLID CHEMICAL CO

CONCRETE ANCHORS

- 1. DEFORMED BAR: ASTM A706, GRADE 60
2. CAST IN PLACE ANCHORS: REFERENCE THE ANCHOR BOLT SCHEDULE & DETAIL DRAWING.
2.1. ALL ANCHOR BOLTS, NUTS, WASHERS AND ANCHOR HARDWARE SHALL BE CORROSION PROTECTED BY EITHER:
2.1.1. HOT DIPPED GALVANIZED PER ASTM F2329 OR
2.1.2. FIELD PAINTED TO MATCH STRUCTURAL STEEL OR EQUIPMENT
3. EMBEDDED STEEL ANCHORAGE: HOT DIP GALVANIZED EXTERIOR ASSEMBLY PER ASTM F2329.
3.1. PLATES, ROLLED SHAPES: ASTM A36, Fy=36 KSI
3.2. HEADED ANCHOR STUDS: ASTM A108 GRADE 1010-1020 TYPE B, Fu=60 KSI
4. POST INSTALLED ADHESIVE (CHEMICAL) SET ANCHORS: REFERENCE 'CONCRETE SECTION C' FOR ADHESIVE AND SEE DRAWINGS FOR TYPE.
4.1. HAS-E ZINC PLATED ROD (ISO 898 CLASS 5.8) BY HILTI.
4.2. SUPER HAS ZINC PLATED ROD (ASTM A193 GRADE B7) BY HILTI.
4.3. STAINLESS HAS ROD (ASTM F593, 304/316) BY HILTI. 5. POST INSTALLED MECHANICAL ANCHORS: KWIK BOLT TZ EXPANSION ANCHOR BY HILT OR "STRONG-BOLT" WEDGE ANCHOR BY SIMPSON STRONG-TIE.
5. INSTALLATION OF ALL POST INSTALLED ANCHORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND LATEST ICC EVALUATION SERVICES, INC ES REPORT (ESR-1771).

AMENDMENT

NO. DATE



COLORADO SPRINGS AIRPORT
PONDS 500 & 600 DOWNSTREAM STABILIZATION
CIVIL CONSTRUCTION PLANS
COLORADO SPRINGS, COLORADO

STRUCTURAL NOTES (1)

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

DATE FEBRUARY 28, 2025
SHEET

MATERIALS TESTING

STATEMENT OF SPECIAL INSPECTIONS PER IBC 1704

1. SOILS:
 - 1.1. OBSERVATION OF EARTHWORK ACTIVITIES AND COMPACTION TESTING WILL BE PERFORMED BY THE PROJECT GEOTECHNICAL ENGINEER OR OTHER DESIGNATED REPRESENTATIVE. MINIMUM REQUIREMENTS UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN THE PROJECT GEOTECHNICAL ENGINEERING REPORT.
 - 1.2. PROOF ROLL SUBGRADE UNDER THE OBSERVATION OF THE GEOTECHNICAL REPRESENTATIVE.
 - 1.3. PERFORM ONE COMPACTION TEST FOR EACH LIFT OF STRUCTURAL FILL FOR EACH FOUNDATION, FOR EACH 50 LINEAL FEET, OR AT LEAST ONE TEST PER 200 SQUARE FEET.
 - 1.4. PERFORM ONE COMPACTION TEST FOR EACH LIFT OF BACKFILL FOR EACH 75 LINEAL FEET OR AT LEAST ONE TEST PER 300 SQUARE FEET.
 - 1.5. REFERENCE THE GEOTECHNICAL REPORT FOR SPECIFIC PROCEDURES AND MINIMUM IN-PLACE DENSITY REQUIREMENTS.
2. CONCRETE
 - 2.1. SLUMP: ONE TEST EACH SET
 - 2.2. TOTAL AIR CONTENT: ONE TEST EACH SET
 - 2.3. UNIT WEIGHT: ONE TEST EACH SET
 - 2.4. TEMPERATURE: ONE TEST AMBIENT AIR AND FRESH CONCRETE EACH SET.
 - 2.5. COMPRESSIVE STRENGTH: ONE SET FOR EACH 50 CUBIC YARDS OF PLACED CONCRETE OR A MINIMUM OF ONE SET FOR EACH DAYS CONCRETE PLACEMENT FOR EACH MIX CLASS. EACH SET IS COMPRISED OF (4) STANDARD 6 INCH DIAMETER CYLINDERS; BREAK ONE AT 7 DAYS CURE AND TWO AT 28 DAYS CURE. THE FOURTH SHALL BE FIELD CURED AND SERVE AS A SPARE TO BE TESTED IF THE OTHERS ARE DAMAGED OR UNSUITABLE.
 - 2.6. REFERENCE THE 'CONCRETE' SECTION OF THESE NOTES FOR SPECIFIED PARAMETERS.

1. INFORMATION ON THIS SHEET IS BEING SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTIONS PROVISIONS OF THE 2018 INTERNATIONAL BUILDING CODE. THIS INFORMATION CONSTITUTES THE SCHEDULE OF SPECIAL INSPECTIONS (SSI) REQUIRED FOR THIS PROJECT.
2. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED HEREIN. THE GENERAL CONTRACTOR SHALL NOT EMPLOY THE SPECIAL INSPECTORS.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
4. THE SPECIAL INSPECTOR SHALL FULLFILL THE FOLLOWING REPORT REQUIREMENTS:
 - 4.1. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS.
 - 4.2. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER, THE GENERAL CONTRACTOR, THE STRUCTURAL ENGINEER, AND THE ARCHITECT. IN ADDITION, REPORTS RELATED TO GEOTECHNICAL ISSUES SHALL BE DISTRIBUTED TO THE GEOTECHNICAL ENGINEER. WHEN TESTS OR INSPECTIONS INDICATE THAT THE WORK DOES NOT COMPLY WITH THE CONSTRUCTION DOCUMENTS, THE SPECIAL INSPECTOR SHALL NOTIFY THE OWNER, CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER BY PHONE ON THE DAY OF THE TEST OR INSPECTION AND SHALL FOLLOW THAT CALL WITH AN EXPEDITED WRITTEN REPORT WITHIN ONE BUSINESS DAY. ALL OTHER REPORTS SHALL BE SUBMITTED WITHIN 5 BUSINESS DAYS OF THE EVENT DOCUMENTED.
 - 4.3. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
 - 4.4. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
 - 4.5. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITHIN ONE BUSINESS DAY.
 - 4.6. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED BY THE SPECIAL INSPECTOR AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
 - 4.7. THE SPECIAL INSPECTOR'S FINAL REPORT SHALL STATE THE FOLLOWING: "IN MY PROFESSIONAL OPINION AND TO THE BEST OF MY INFORMATION, KNOWLEDGE AND BELIEF, THE SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT, AS ITEMIZED IN THE STATEMENT OF SPECIAL INSPECTIONS SUBMITTED FOR PERMIT, HAVE BEEN PERFORMED AND ALL DISCOVERED DISCREPANCIES HAVE BEEN REPORTED AND RESOLVED."
 - 4.8. THE REPORT SHALL BE SIGNED BY THE SPECIAL INSPECTOR.
5. THE INSPECTIONS LISTED HEREIN ARE IN ADDITION TO THE INSPECTIONS TO BE PERFORMED BY THE BUILDING OFFICIAL AND LISTED IN SECTION 109 OF THE IBC.
6. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON QUANTITY, FREQUENCY AND DETAILED INFORMATION ON TESTING, INSPECTION AND REPORTING.
7. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE SPECIAL INSPECTION REQUIREMENTS WITH ALL INVOLVED PARTIES.
8. THE SPECIAL INSPECTIONS PROGRAM OUTLINED HEREIN, DOES NOT RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF ANY CONTRACTUAL DUTIES, INCLUDING QUALITY CONTROL, QUALITY ASSURANCE, OR SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND JOB SITE SAFETY.
9. THE CONTRACTOR SHALL PAY FOR ENGINEERING SERVICES REQUIRED TO INVESTIGATE AND CORRECT WORK THAT DOES NOT CONFORM TO THE PROJECT DOCUMENTS OR IS FOUND DEFICIENT OR DEFECTIVE.

AMENDMENT

NO. DATE



COLORADO SPRINGS AIRPORT
 PONDS 500 & 600 DOWNSTREAM STABILIZATION
 CIVIL CONSTRUCTION PLANS
 COLORADO SPRINGS, COLORADO
 STRUCTURAL NOTES (2)

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

DATE FEBRUARY 28, 2025
 SHEET