CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

WOODLAND PARK, CO

MARCH 2026

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Q10	* SWMP NARRATIVE
Q11	* SWMP NARRATIVE
Q13	* SWMP NARRATIVE
Q12	* SWMP NARRATIVE
Q14	* SWMP NARRATIVE
Q15	* SWMP NARRATIVE
Q16	* SWMP NARRATIVE

* SHEETS NOT INCLUDED IN COUNTY ENGINEER APPROVAL

LEGEND

- EX CONTOURS–MAJOR (5539)
- EX CONTOURS–MINOR
- EX CULVERT
- EX EDGE OF ASPHALT
- EX EDGE OF GRAVEL
- EX FLOW ARROW
- EX SIGN
- EX PROPERTY LINE/PARCEL BOUNDARY
- EX RIGHT–OF–WAY
- EX WATER LINE
- EX O.H. ELECTRIC (OHE)
- EX TREE LINE
- EX BUILDING
- EX POLE
- EX PILE
- EX EDGE OF TREES
- EX STREAM CHANNEL FLOW
- EX WETLANDS
- PP CONTOURS–MAJOR (5540)
- PP CONTOURS–MINOR
- PP CULVERT
- PP EDGE OF ASPHALT
- PP EDGE OF GRAVEL
- PP FLOW ARROW
- PP SIGN
- PP DITCH
- PP SPOT ELEVATION
- PP RIPRAP APRON (RR)
- PP EROSION CONTROL SILT FENCE (SF)
- PP EROSION CONTROL LOG (SCL)
- PP CHECK DAM (CD)
- PP CULVERT INLET PROTECTION (CIP)
- PP STABILIZED STAGING AREA (SSA)
- PP VEHICLE TRACKING CONTROL (VTC)
- PP SEEDING, MULCHING, AND TURF REINFORCEMENT MAT (SM)
- PP LIMITS OF CONSTRUCTION/ LIMITS OF DISTURBANCE
- PP ROADWAY
- PP CUT LIMITS
- PP FILL LIMITS
- PP TREE
- PP BOLLARD

PHASING

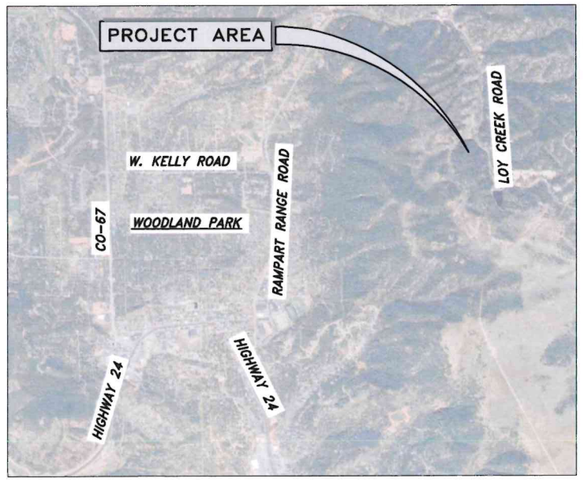
BLUE = INITIAL PHASE BMP
MAGENTA = CONSTRUCTION PHASE BMP
GREEN = PERMANENT PHASE BMP

PARTICIPANTS

OWNER
CITY OF WOODLAND PARK
220 W. SOUTH AVENUE
WOODLAND PARK, CO 80866
CONTACT: KIP WILEY,
DIRECTOR OF UTILITIES
PHONE: (719) 494–3235

CONSULTING/DESIGN ENGINEER
RESPEC
5540 TECH CENTER DR, STE 100
COLORADO SPRINGS, CO 80903
CONTACT: DOUG SCHWENKE, PE
PHONE: (719) 227–0072

CONTRACTOR/OPERATOR
TBD AFTER BID
ADDRESS LINE 1 – TBD
ADDRESS LINE 2 – TBD
CONTACT: TBD
PHONE: TBD
PHONF:



VICINITY MAP
N.T.S.

PERMITS

STATE STORMWATER PERMIT NUMBER: XXXX

PRE–EXCAVATION CHECKLIST

- ☐ Gas and Other Utility Lines Shown on Construction Plans
- ☐ Utility Notification Center of Colorado (UNCC) Call at Least Two (2) Business Days Ahead 1–800–922–1987
- ☐ Utilities Located & Marked on the Ground
- ☐ Employees Briefed on Marking and Color Codes
- ☐ Employees Trained on Excavation and Safety Procedures for Natural Gas Lines
- ☐ When Excavation Approaches Gas Lines, Employees Must Expose Lines by Careful Probing and Hand–Digging

811 Know what's below. Call before you dig.

RESPEC
Colorado Springs, CO
5540 Tech Center Dr., Suite 100
Colorado Springs, CO 80919
Phone: 719.227.0072
www.respec.com

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY JURISDICTIONAL AGENCIES DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

SIGNATURE BLOCKS

COLORADO LICENSED
KEVIN MATTHEW GARCIA
64503
PROFESSIONAL ENGINEER
04/02/2026

DESIGN ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

KEVIN GARCIA, P.E. #64503 — DATE 3/31/2026

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

KIP WILEY
CITY OF WOODLAND PARK
220 WEST SOUTH AVENUE
WOODLAND PARK, CO 80866
DATE 3/31/26

EL PASO COUNTY:

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 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 DIRECTORS DISCRETION.

Daniel Torres, P.E. — Digitally signed by Daniel Torres, P.E. Reason: Authorized signatory as County Engineer designee Date: 2026.04.07 10:55:39-06'00'

JOSHUA J. PALMER, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR
DATE 4/7/2026

PCD FILE NO. CDR2512

STANDARD GRADING AND EROSION CONTROL NOTES:

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 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 THE 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 MISES OR IN THE APPROVED GEC PLAN. VEGETATION COVERAGE SHALL BE AT A MINIMUM, EQUAL TO 70% OF WHAT WOULD HAVE BEEN PROVIDED BY 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 CONDITIONS AND CIRCUMSTANCES.

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, AND REGULATIONS SHALL APPLY.

29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECT 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

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF EL PASO COUNTY DRAINAGE CRITERIA MANUAL AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON ALL PLANS OR NOT, BEFORE BEGINNING OF CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND OWNER. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
4. PAY ITEM "CLEARING AND GRUBBING" SHALL BE LIMITED TO WITHIN THE CUT/FILL LIMITS. PAY ITEM "CLEARING (WITHOUT GRUBBING) SHALL EXTEND A MINIMUM OF 20 FEET FROM THE EDGE OF THE ROAD SHOULDER. "CLEARING" INCLUDES THE REMOVAL OF VEGETATION OF 6 INCHES OR TALLER ABOVE THE EXISTING GROUND.
5. PAY ITEM "UNCLASSIFIED EXCAVATION" WILL BE USED AS SUITABLE MATERIAL FOR EMBANKMENT USE AS ACCORDING TO SPECIFICATIONS.
6. APPROVALS FOR THIS DESIGN PACKAGE APPLY ONLY TO WORK PERFORMED WITHIN EL PASO COUNTY. THESE APPROVALS DO NO APPLY TO ANY WORK SHOWN WITHIN TELLER COUNTY. PLEASE OBTAIN ALL REQUIRED APPROVALS FROM TELLER COUNTY FOR ANY WORK LOCATED WITHIN THEIR JURIDICTION.
7. CONTRACTOR SHALL USE BEAR RESISTANT TRASH RECEPTACLES DURING CONSTRUCTION.
8. CONTRACTOR SHALL THOROUGHLY CLEAN ALL EQUIPMENT PRIOR TO MOBILIZATION ONTO THE PROJECT SITE.

RESPEC
Colorado Springs, CO
5540 Tech Center Dr., Suite 100
Colorado Springs, CO 80919
Phone: 719.227.0072
www.respec.com

CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
GENERAL NOTES

REVISIONS

NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED PROFESSIONAL ENGINEER 64503 12/19/2025

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
G2

IF BAR DOES NOT MEASURE ONE INCH SCALE OF THIS DRAWING HAS BEEN ALTERED 1"

N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_General.dwg

2026/02/17 9:23 AM By: Dominic Russo

IF BAR DOES NOT MEASURE ONE INCH, SCALE OF THIS DRAWING HAS BEEN ALTERED

1"

2026/03/13 4:59 PM By: Dominic Russo N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_Engineers Estimate.dwg

ESTIMATE OF QUANTITIES – PRIMARY ACCESS ROAD

ITEM NO	PAY ITEM	PAY UNIT	QUANTITY
201–00001	CLEARING AND GRUBBING	ACRE	3.9
201–00002	CLEARING	LS	ALL REQ'D
203–00000	UNCLASSIFIED EXCAVATION	CY	13600
203–00050	UNSUITABLE MATERIAL	CY	680
203–00060	EMBANKMENT MATERIAL (COMPLETE IN PLACE)	CY	14700
203–01100	PROOF ROLLING	HR	8
203–01594	COMBINATION LOADER	HR	30
207–00205	TOPSOIL	CY	1080
207–00703	TOPSOIL (WETLAND)	CY	25
208–00020	SILT FENCE	LF	4550
208–00023	EROSION LOG TYPE 3 (12 IN)	LF	540
208–00041	ROCK CHECK DAMS	EA	59
208–00045	CONCRETE WASHOUT	EA	1
208–00075	PRE–FABRICATED VEHICLE TRACKING PAD	EA	24
208–00107	REMOVAL OF TRASH	HR	20
208–00207	EROSION CONTROL MANAGEMENT	DAY	60
211–03005	DEWATERING	LS	1
212–00022	SEEDING (RIPARIAN)	ACRE	0.4
212–00707	SEEDING (NATIVE) HYDRAULIC	ACRE	1.9
212–00710	SEEDING (WETLAND) HYDRAULIC	ACRE	0.1
216–00302	TURF REINFORCEMENT MAT (CLASS 2)	SY	10020
304–06000	AGGREGATE BASE COURSE (CLASS 6)	TON	5320
304–09014	AGGREGATE BASE COURSE (SPECIAL)	TON	2590
403–33721	HOT MIX ASPHALT (GRADING S) (75) (PG 58–28)	TON	17
403–34721	HOT MIX ASPHALT (GRADING SX) (75) (PG 58–28)	TON	17
420–00132	GEOTEXTILE (SEPARATOR) (CLASS 1)	SY	85
420–00300	GEOTEXTILE (REINFORCEMENT)	SY	740
506–00206	RIPRAP (6 IN)	CY	22
506–00218	RIPRAP (18 IN)	CY	10
506–00226	RIPRAP (24 IN)	CY	86
601–01000	CONCRETE CLASS B	CY	11
603–01245	24 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	83
603–01365	36 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	56
603–05024	24 INCH REINFORCED CONCRETE END SECTION	EA	1
603–05036	36 INCH REINFORCED CONCRETE END SECTION	EA	2
607–60332	32 FOOT GATE TWIN	EA	1
614–00011	SIGN PANEL (CLASS I)	SF	89
614–00220	STEEL SIGNPOST (2.5X2.5 INCH TUBING)	LF	255
625–00000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
626–00000	MOBILIZATION	LS	ALL REQ'D
630–00012	TRAFFIC CONTROL MANAGEMENT	DAY	6

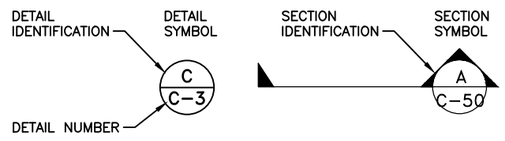
ESTIMATE OF QUANTITIES – SECONDARY ACCESS ROAD

ITEM NO	PAY ITEM	PAY UNIT	QUANTITY
201–00001	CLEARING AND GRUBBING	ACRE	0.1
203–00000	UNCLASSIFIED EXCAVATION	CY	19
203–00060	EMBANKMENT MATERIAL (COMPLETE IN PLACE)	CY	386
203–01100	PROOF ROLLING	HR	2
203–01594	COMBINATION LOADER	HR	5
207–00205	TOPSOIL	CY	20
207–00703	TOPSOIL (WETLAND)	CY	10
208–00020	SILT FENCE	LF	310
208–00023	EROSION LOG TYPE 3 (12 IN)	LF	11
208–00075	PRE–FABRICATED VEHICLE TRACKING PAD	EA	8
208–00107	REMOVAL OF TRASH	HR	5
208–00207	EROSION CONTROL MANAGEMENT	DAY	5
211–03005	DEWATERING	LS	1
212–00707	SEEDING (NATIVE) HYDRAULIC	ACRE	0.1
212–00710	SEEDING (WETLAND) HYDRAULIC	ACRE	0.1
215–00200	TRANSPLANT TREE (BALL AND BURLAP)	EA	2
216–00302	TURF REINFORCEMENT MAT (CLASS 2)	SY	219
304–06000	AGGREGATE BASE COURSE (CLASS 6)	TON	140
304–09014	AGGREGATE BASE COURSE (SPECIAL)	TON	100
403–33721	HOT MIX ASPHALT (GRADING S) (75) (PG 58–28)	TON	15
403–34721	HOT MIX ASPHALT (GRADING SX) (75) (PG 58–28)	TON	15
603–01305	30 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	50
603–05030	30 INCH REINFORCED CONCRETE END SECTION	EA	2
622–00270	BOLLARD	EA	3
625–00000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
626–00000	MOBILIZATION	LS	ALL REQ'D
630–00012	TRAFFIC CONTROL MANAGEMENT	DAY	6

ABBREVIATIONS

AP	ANGLE POINT
APPROX	APPROXIMATELY
BOP	BEGINNING OF PROJECT
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
CL	CENTERLINE
CY	CUBIC YARD
EA	EACH
ELEV	ELEVATION
ETW	EDGE OF TRAVELED WAY
EVCE	ELEVATION AT VERTICAL CURVE ENTRY
EVCS	ELEVATION AT VERTICAL CURVE STATION
EX	EXISTING
FL	FLOW LINE
GB	GRADE BREAK
IN	INCH
LF	LINEAR FEET
LS	LUMP SUM
LT	LEFT
LVC	LENGTH OF CURVE
MAX	MAXIMUM
MIN	MINIMUM
PP	PROPOSED
PT	POINT OF TANGENT
PVI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
STA	STATION
TYP	TYPICAL

SECTION IDENTIFICATION



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GLEN ASPEN DAM – ACCESS IMPROVEMENTS

ESTIMATE OF QUANTITIES

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2	BMP REVISION	DJR	KMG	MAR 2026
3				
4				
5				
6				
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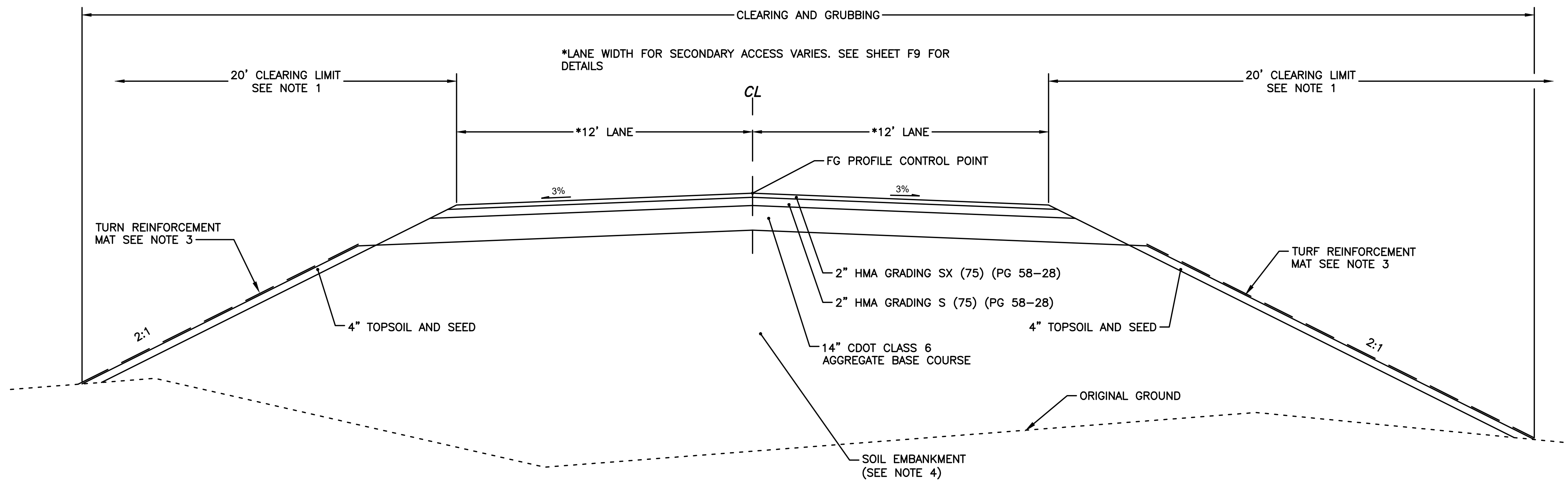
FINAL

COLORADO LICENSED
64503
12/19/2025
PROFESSIONAL ENGINEER

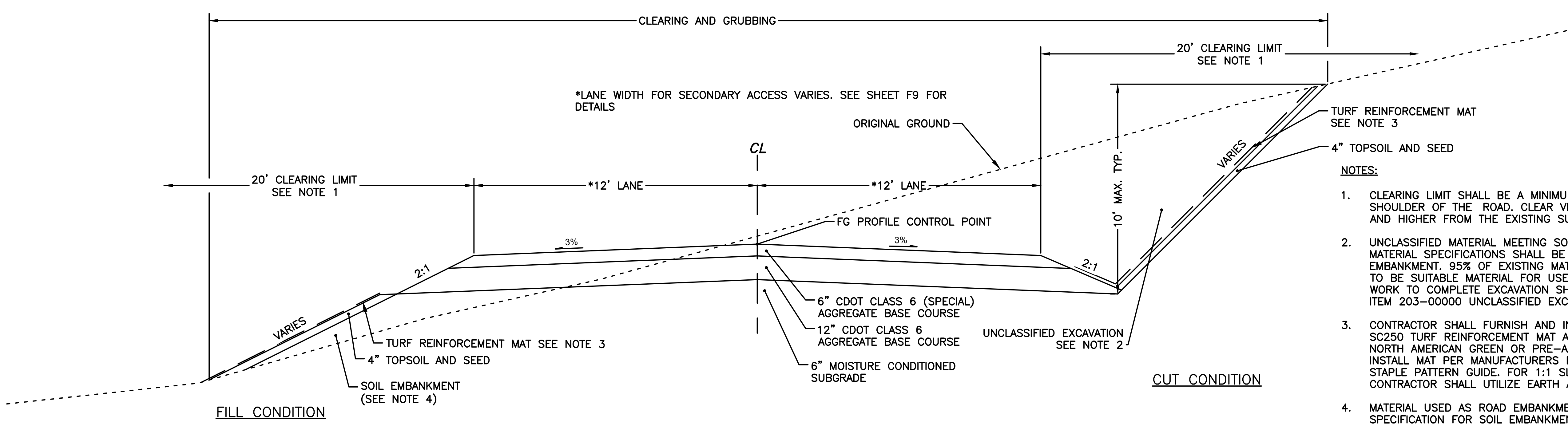
Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
G3



A B1 **PRIMARY ACCESS ROAD STA 10+12 TO STA 10+62 & SECONDARY ACCESS STA 100+12 TO STA 100+62**

NOT TO SCALE



B B1 **PRIMARY ACCESS ROAD STA 10+62 TO STA 39+20 & SECONDARY ACCESS STA 100+62 TO STA 101+67**

NOT TO SCALE

NOTES:

1. CLEARING LIMIT SHALL BE A MINIMUM OF 20' FROM THE SHOULDER OF THE ROAD. CLEAR VEGETATION 6 INCHES AND HIGHER FROM THE EXISTING SURFACE.
2. UNCLASSIFIED MATERIAL MEETING SOIL EMBANKMENT MATERIAL SPECIFICATIONS SHALL BE USED AS EMBANKMENT. 95% OF EXISTING MATERIAL IS ANTICIPATED TO BE SUITABLE MATERIAL FOR USE AS EMBANKMENT. ALL WORK TO COMPLETE EXCAVATION SHALL BE PAID PER PAY ITEM 203-00000 UNCLASSIFIED EXCAVATION.
3. CONTRACTOR SHALL FURNISH AND INSTALL THE VMAX SC250 TURF REINFORCEMENT MAT AS MANUFACTURED BY NORTH AMERICAN GREEN OR PRE-APPROVED EQUAL. INSTALL MAT PER MANUFACTURERS RECOMMENDATIONS AND STAPLE PATTERN GUIDE. FOR 1:1 SLOPES THE CONTRACTOR SHALL UTILIZE EARTH ANCHORS.
4. MATERIAL USED AS ROAD EMBANKMENT SHALL MEET THE SPECIFICATION FOR SOIL EMBANKMENT. CONTRACTOR SHALL USE MATERIAL EXCAVATED FROM THE SITE AS ROAD EMBANKMENT. ALL WORK ASSOCIATED TO CONSTRUCTING THE ROAD EMANKMENT SHALL BE PAID UNDER PAY ITEM 203-00060 EMBANKMENT MATERIAL (COMPLETE IN PLACE).
5. MATERIAL THAT DOES NOT MEET THE SPECIFICATION FOR SOIL EMBANKMENT SHALL BE DISPOSED OF ON SITE. SEE SHEET B2 FOR DISPOSAL DETAILS. ALL WORK TO EXCAVATE AND DISPOSE OF UNSUITABLE MATERIAL SHALL BE PAID PER PAY ITEM 203-00050 UNSUITABLE MATERIAL.

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GLEN ASPEN DAM – ACCESS IMPROVEMENTS
TYPICAL SECTIONS

REVISIONS

NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
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IF BAR DOES NOT MEASURE ONE INCH SCALE OF THIS DRAWING HAS BEEN ALTERED 1"

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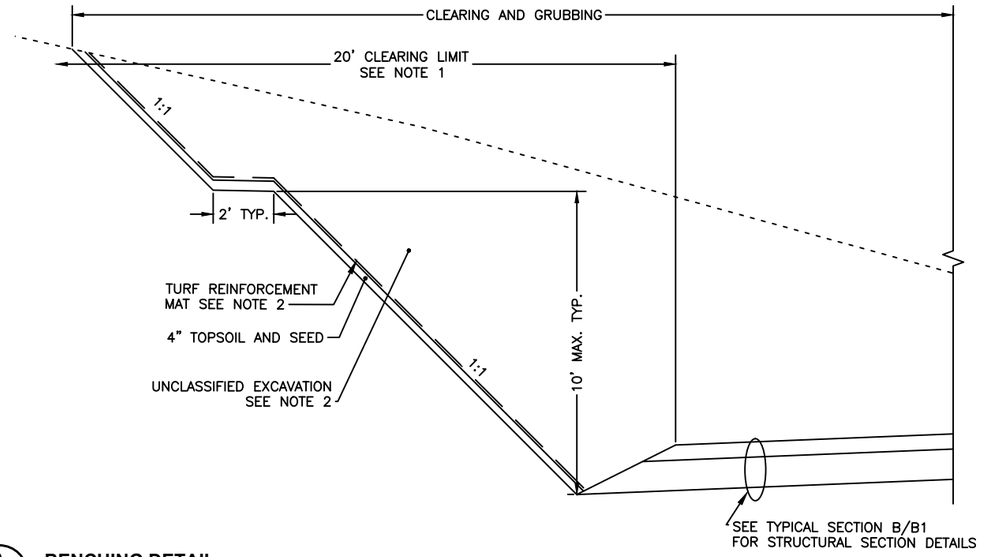
2026/02/13 6:13 PM By: Dominic Russo



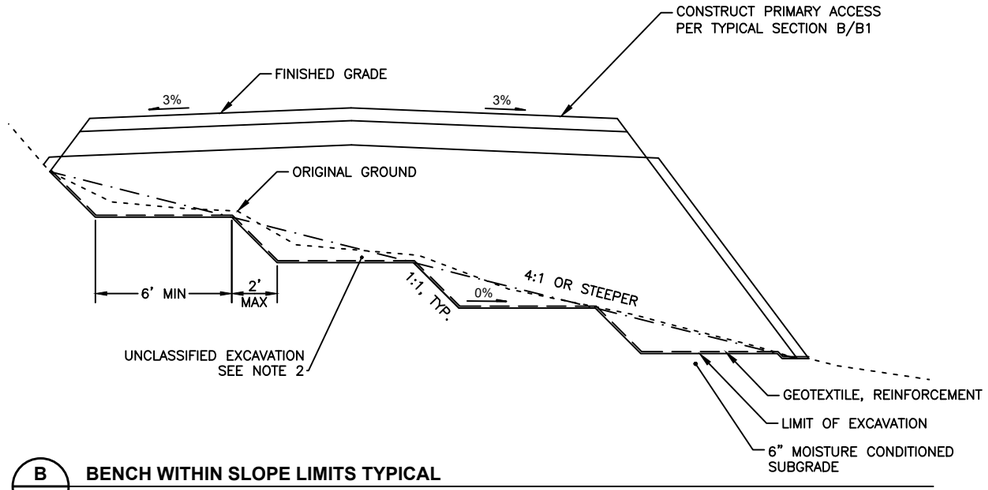
A B2 **BENCHING DETAIL**

NOT TO SCALE

NOTES:

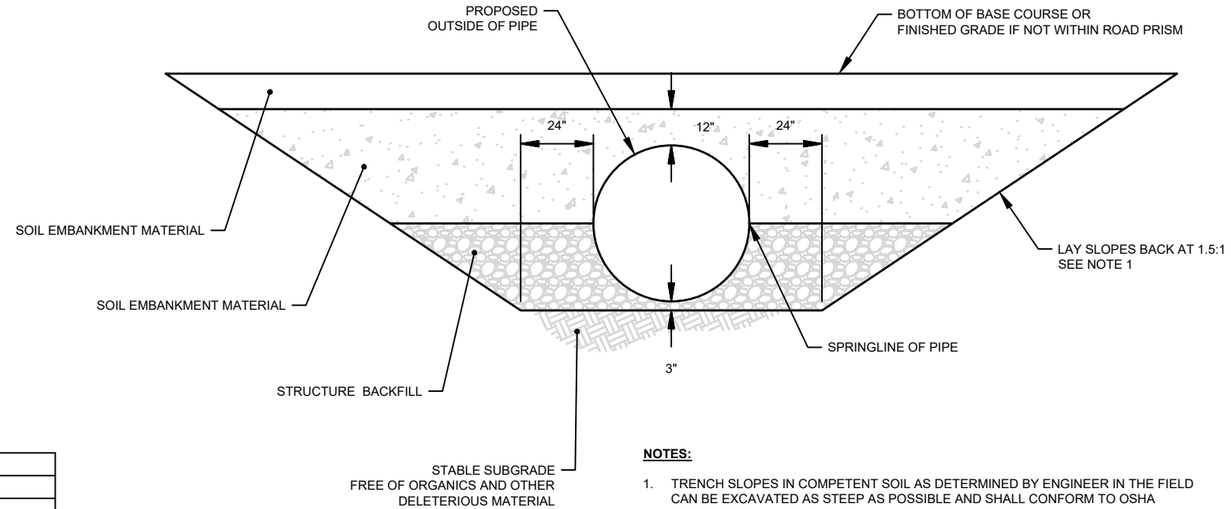
1. CLEARING LIMIT SHALL BE A MINIMUM OF 20' FROM THE SHOULDER OF THE ROAD. CLEAR VEGETATION 6 INCHES AND HIGHER FROM THE EXISTING SURFACE.
2. UNCLASSIFIED MATERIAL MEETING SOIL EMBANKMENT MATERIAL SPECIFICATIONS SHALL BE USED AS EMBANKMENT. 95% OF EXISTING MATERIAL IS ANTICIPATED TO BE SUITABLE MATERIAL FOR USE AS EMBANKMENT. ALL WORK TO COMPLETE EXCAVATION SHALL BE PAID PER PAY ITEM 203-00000 UNCLASSIFIED EXCAVATION.
3. CONTRACTOR SHALL FURNISH AND INSTALL THE VMAX SC250 TURF REINFORCEMENT MAT AS MANUFACTURED BY NORTH AMERICAN GREEN OR PRE-APPROVED EQUAL. INSTALL MAT PER MANUFACTURERS RECOMMENDATIONS AND STAPLE PATTERN GUIDE FOR 1:1 SLOPES THE CONTRACTOR SHALL UTILIZE EARTH ANCHORS.
4. MATERIAL USED AS ROAD EMBANKMENT SHALL MEET THE SPECIFICATION FOR SOIL EMBANKMENT. CONTRACTOR SHALL USE MATERIAL EXCAVATED FROM THE SITE AS ROAD EMBANKMENT. ALL WORK ASSOCIATED TO CONSTRUCTING THE ROAD EMANKMENT SHALL BE PAID UNDER PAY ITEM 203-00060 EMBANKMENT MATERIAL (COMPLETE IN PLACE).
5. MATERIAL THAT DOES NOT MEET THE SPECIFICATION FOR SOIL EMBANKMENT SHALL BE DISPOSED OF ON SITE. SEE SHEET B2 FOR DISPOSAL DETAILS. ALL WORK TO EXCAVATE AND DISPOSE OF UNSUITABLE MATERIAL SHALL BE PAID PER PAY ITEM 203-00050 UNSUITABLE MATERIAL.

EMBANKMENT SLOPE TABLE									
LEFT EMBANKMENT SLOPE					RIGHT EMBANKMENT SLOPE				
BEGIN STATION	END STATION	SLOPE	CONDITION	REMARKS	BEGIN STATION	END STATION	SLOPE	CONDITION	REMARKS
10+12	11+25	2:1	FILL		10+12	11+55	2:1	FILL	
11+25	13+90	2:1	CUT		11+55	13+90	2:1	CUT	
13+90	17+00	2:1	FILL		13+90	14+74	N/A	N/A	STAGING AREA
17+00	19+40	3:1	FILL		14+74	15+79	3:1	FILL	
19+40	19+80	2:1	CUT		15+79	18+40	2:1	FILL	
19+80	20+40	3:1	FILL		18+40	20+25	3:1	FILL	
20+40	20+90	6:1	FILL	EXISTING TRAIL CROSSING	20+25	20+75	6:1	FILL	EXISTING TRAIL CROSSING
20+90	22+10	3:1	FILL		20+75	22+00	3:1	FILL	
22+10	24+42	2:1	CUT		22+00	23+47	2:1	CUT	
24+42	28+30	3:1	FILL		23+47	24+00	3:1	FILL	
28+30	28+65	2:1	CUT		24+00	28+00	2:1	FILL	
28+65	30+00	3:1	FILL		28+00	36+97	3:1	FILL	
30+00	30+75	2:1	CUT		36+97	37+30	2:1	CUT	
30+75	36+60	3:1	FILL		37+30	38+85	1:1	CUT	SEE BENCHING DETAIL
36+60	36+97	2:1	CUT		38+85	39+20	2:1	CUT	
36+97	38+85	1:1	CUT	SEE BENCHING DETAIL					
38+85	39+20	2:1	CUT						



B B2 **BENCH WITHIN SLOPE LIMITS TYPICAL**

NOT TO SCALE



NOTES:

1. TRENCH SLOPES IN COMPETENT SOIL AS DETERMINED BY ENGINEER IN THE FIELD CAN BE EXCAVATED AS STEEP AS POSSIBLE AND SHALL CONFORM TO OSHA STANDARDS.
2. MINIMUM COVER SHALL BE PROVIDED DURING CONSTRUCTION TO PROTECT FROM DAMAGE.
3. PIPE SHALL BE PLACED WITH LONGITUDINAL SEAMS AT THE SIDES OR QUARTER POINTS BUT NOT ALONG THE TOP OF VERTICAL AXIS.
4. ALL EXCAVATION, BACKFILL AND BEDDING, SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE CULVERT PAY ITEM AND NO SEPARATE PAYMENT WILL BE MADE.

C B2 **TYPICAL CULVERT SECTION**

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CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

TYPICAL SECTIONS

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
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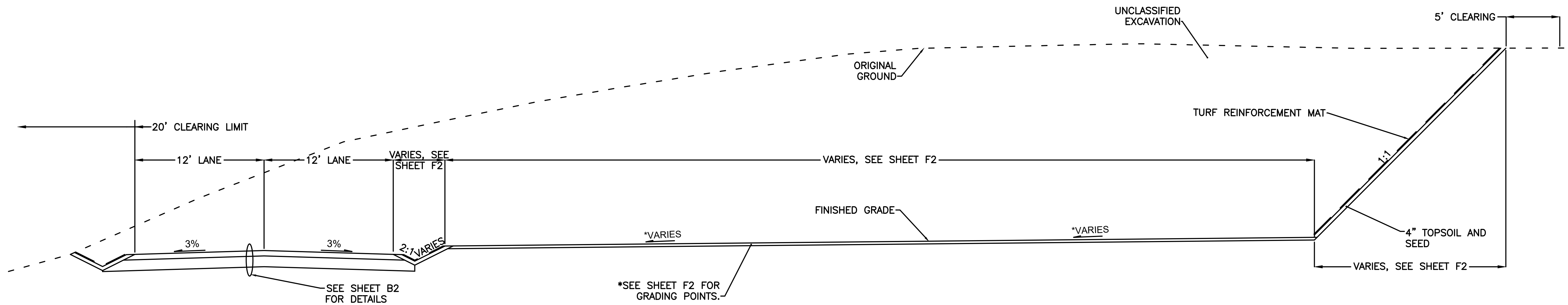

A
B3

STAGING AREA 1 TYPICAL SECTION

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GLEN ASPEN DAM – ACCESS IMPROVEMENTS
TYPICAL SECTIONS

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COLORADO LICENSED PROFESSIONAL ENGINEER 64503 12/19/2025

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Design: KMG
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SHEET NUMBER
B3

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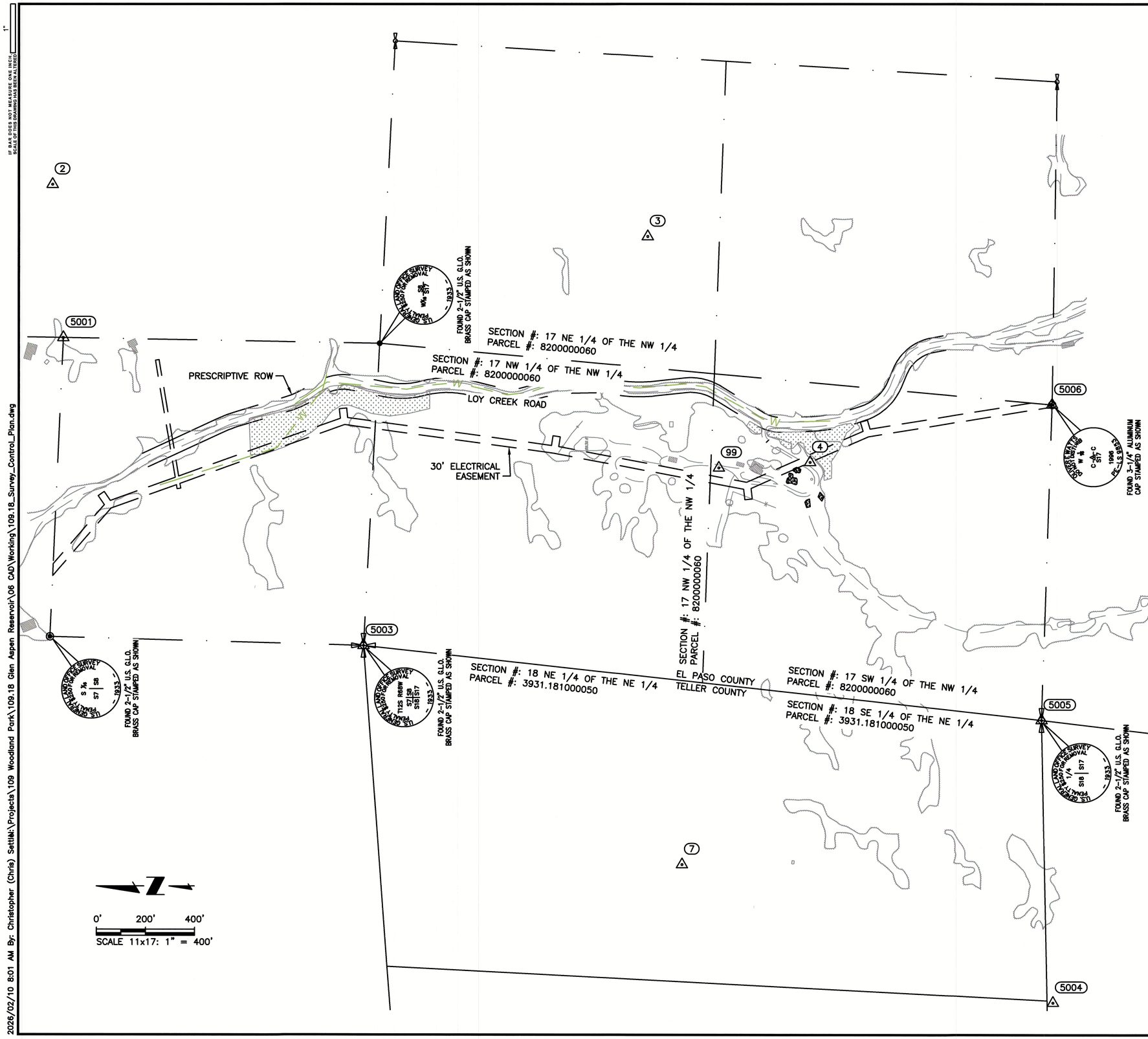

CONTROL TABLE				
Point #	Northing	Easting	Elevation	Description
1*	19740.33	18524.00	8732.24	PP 1
2	19327.44	21777.91	9099.15	PP 2
3	16900.22	21565.62	9164.95	PP 3
4	16237.70	20645.34	8956.30	PP 4
5	14809.66	21842.79	9120.76	PP 5 YPC 9853
6*	14184.26	18552.86	9440.29	PP 6
7	16758.22	19006.02	9239.40	PP 7
99	16609.91	20622.81	8959.07	BASE 99 GPS
5001	19283.51	21153.30	9010.44	7/8IN O.D.IP
5003	18058.19	19898.91	8982.53	2 1/2IN BC
5004	15244.94	18443.18	9251.80	3-1/2IN STEEL PIPE
5005	15292.82	19594.54	9150.23	2-1/2IN GLO BC
5006	15251.50	20880.82	9133.04	3-1/4IN AC 9853
5007*	18251.02	14577.87	8549.67	SET 60d nail
5008*	20573.97	21179.29	8916.96	2-1/2IN GLO BC

* NOT SHOWN

SURVEY CONTROL STATEMENTS

HORIZONTAL DATUM:
THIS THIS PROJECT IS BASED UPON A LOCAL CARTESIAN COORDINATE SYSTEM. BASE STATION 99 WAS OCCUPIED WITH A TRIMBLE R8 GPS RECEIVER THROUGHOUT THE PROJECT. CONTROL POINT 99 IS A 5/8INCH REBAR PLACED FLUSH WITH THE GROUND AND COORDINATES ARE AS SHOWN IN THE ABOVE CONTROL TABLE. COORDINATES IN COLORADO STATE PLANE CENTRAL ZONE 502 ARE AS FOLLOWS:

- CONTROL POINT 99–
  NORTHING 1429194.84, EASTING 3134935.69
- CONTROL POINT 5007–
  NORTHING 1430803.63, EASTING 3128885.26
- 2–1/2" 1933 GLO BRASS CAP 5003 NW COR SEC 17–
  NORTHING 1430638.54, EASTING 3134204.59
- 2–1/2" 1933 GLO BRASS CAP 5005 W1/4 COR SEC 17–
  NORTHING 1427872.97, EASTING 3133914.61.

VERTICAL DATUM:
THIS PROJECT IS AT NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) VALUES. ELEVATIONS WERE BROUGHT TO THE SITE VIA GPS OBSERVATIONS USING NGS BRASS CAP DESIGNATION B174, PID KK0741.
ELEVATION: 8202.88' (NAVD88)

BASIS OF BEARINGS AND LINEAL UNIT DEFINITION:
THE BASIS OF BEARINGS USED HEREIN ARE BETWEEN THE WEST ONE–QUARTER CORNER OF SECTION 17, TOWNSHIP 12 SOUTH RANGE 68 WEST OF THE 6TH/ PRINCIPAL MERIDIAN, AS MONUMENTED BY A 1933 2–1/2" GLO BRASS CAP AND THE NORTHWEST CORNER OF SAID SECTION 17, AS MONUMENTED BY A 1933 2–1/2" GLO BRASS CAP, AND BEARS N06°16'52"E A DISTANCE OF 2782.07 FEET.

THE LINEAL UNITS CONTAINED HEREIN ARE BASED ON THE U.S. SURVEY FOOT.

LEGEND:

(305) POINT NUMBER

△ CONTROL POINT

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SURVEY CONTROL

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1				
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IN PROGRESS

Proj.#: W0309.25020
Date: DECEMBER 2025
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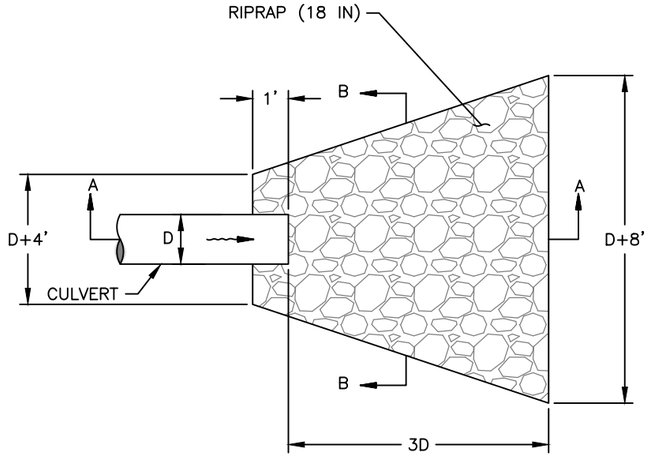
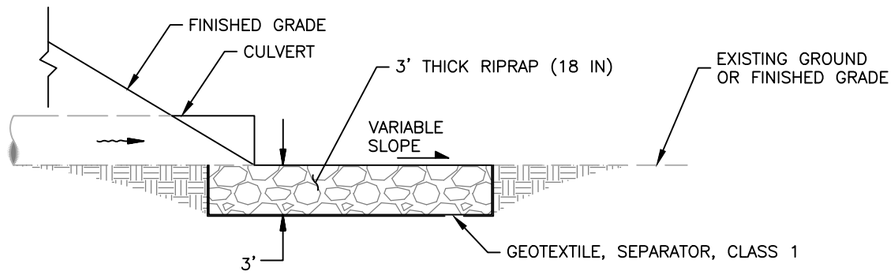
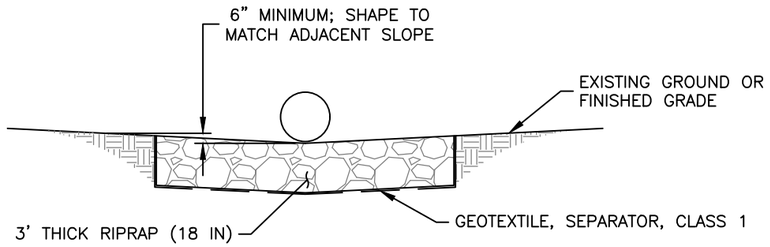
C1





SECTION A–A

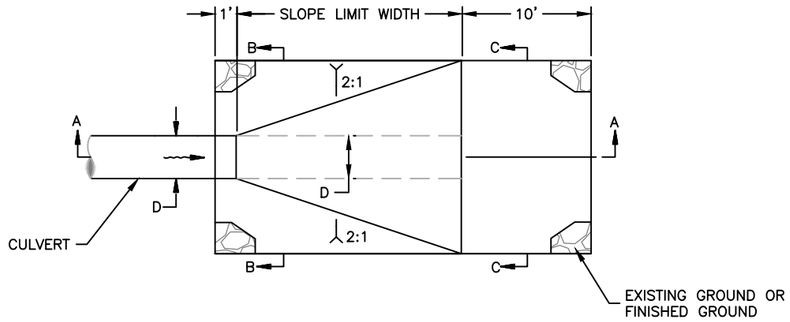


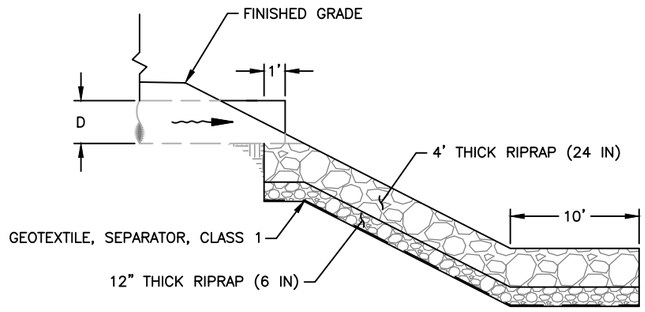
SECTION B–B

A D1 **RIPRAP APRON DETAIL**

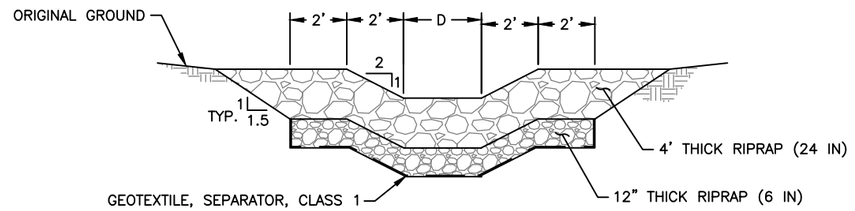
NOT TO SCALE

RIPRAP SUMMARY					
LOCATION	STATION	OFFSET	D50 SIZE (IN)	VOLUME (CY)	DESCRIPTION
PRIMARY ACCESS ROAD	10+80.3	RT	18	10	APRON
PRIMARY ACCESS ROAD	15+80	RT	6	22	BOTTOM LAYER OF ROCK FLUME
PRIMARY ACCESS ROAD	15+80	LT	24	86	TOP LAYER OF ROCK FLUME

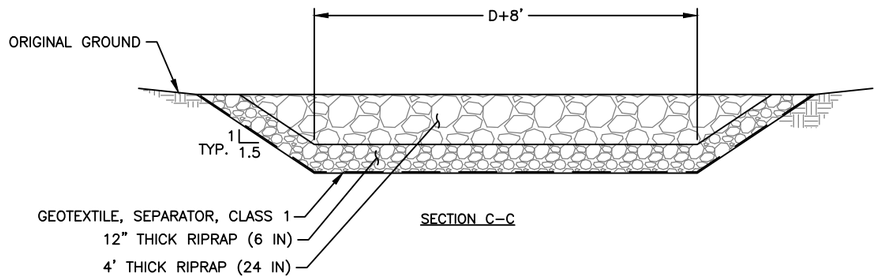




SECTION A–A



SECTION B–B



SECTION C–C

B D1 **ROCK FLUME PROTECTION**

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GLEN ASPEN DAM – ACCESS IMPROVEMENTS

DETAILS

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
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COLORADO LICENSED
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SHEET NUMBER
D1

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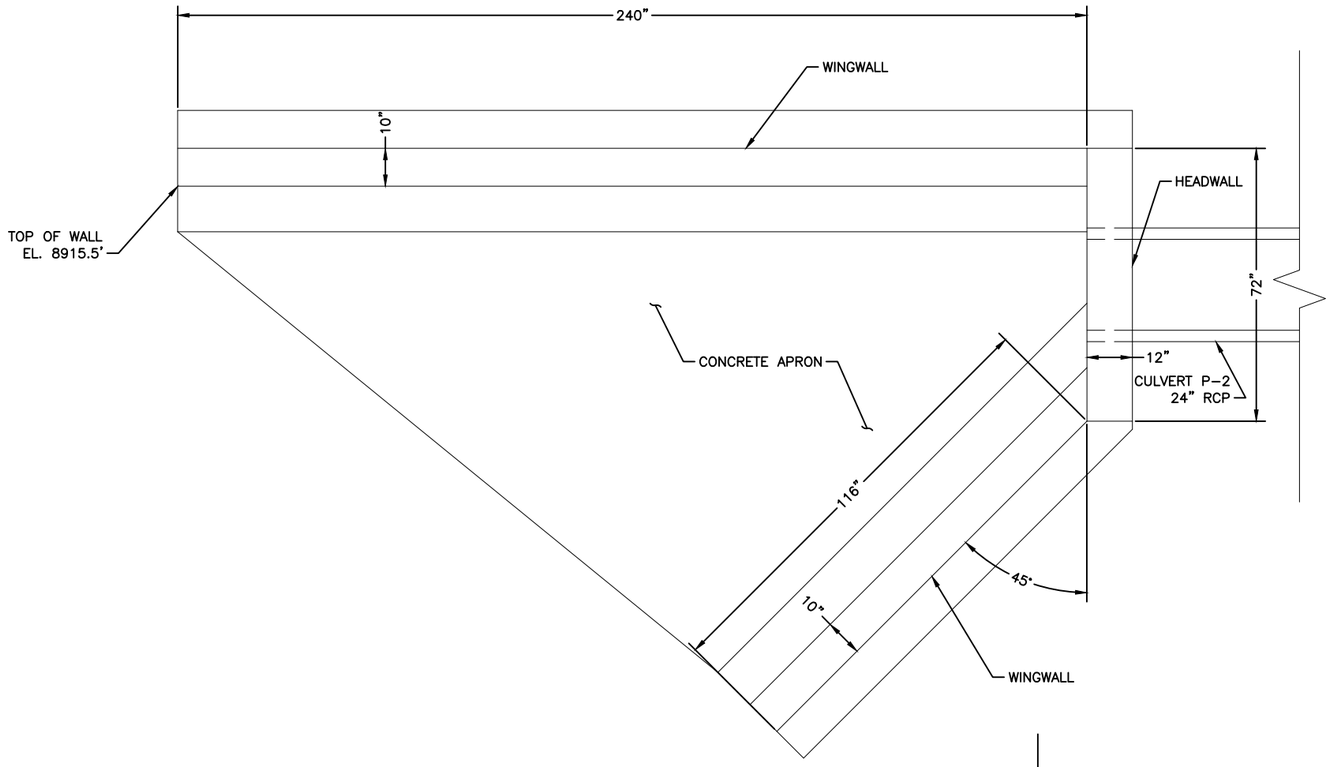
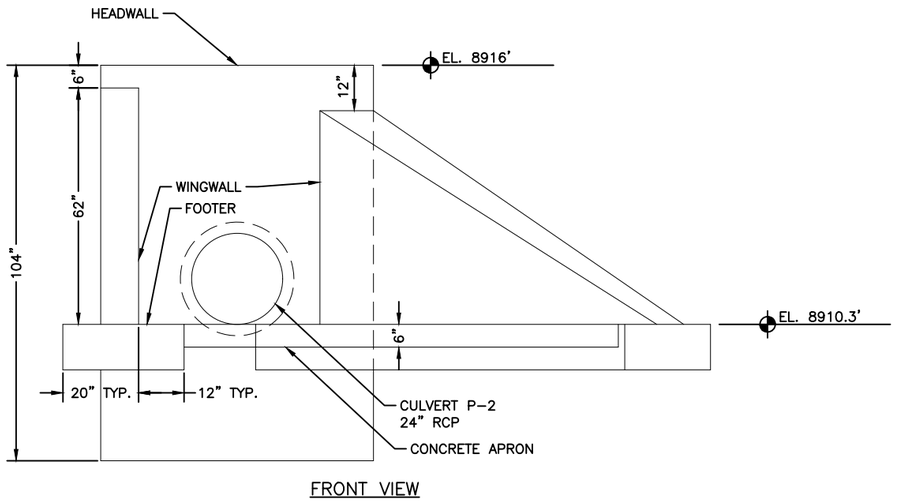


PLAN VIEW

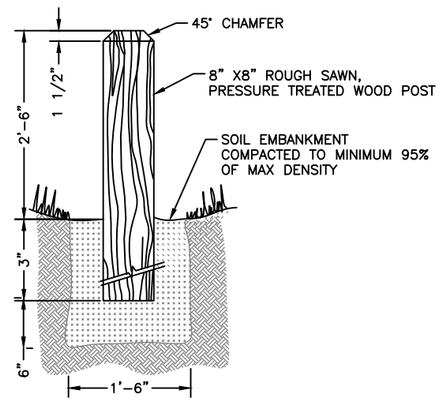


FRONT VIEW

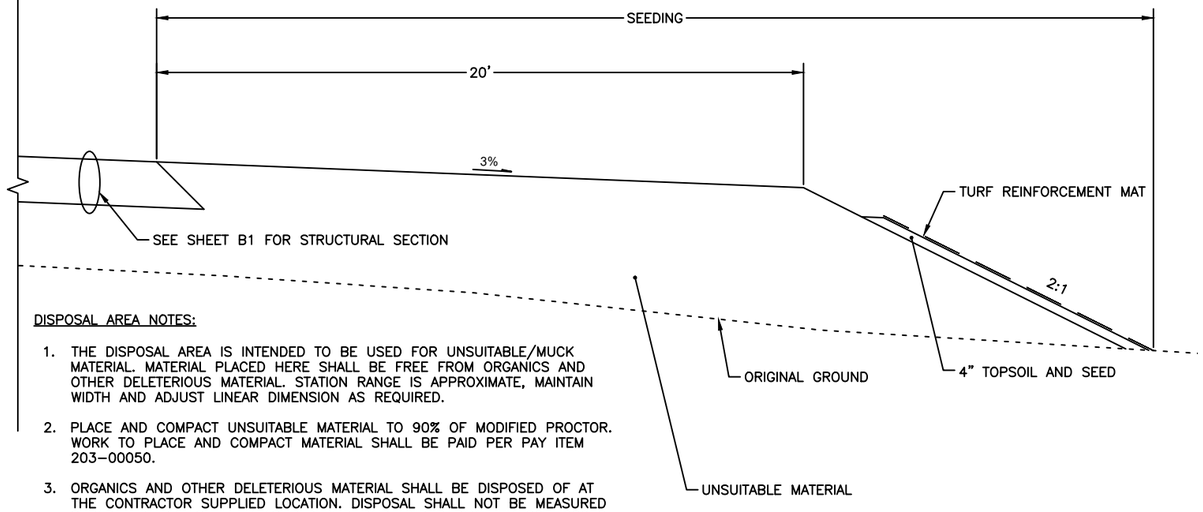
P-2 INLET STRUCTURE NOTES:

1. CONSTRUCT HEADWALL AND WINGWALLS IN ACCORDANCE WITH CDOT STANDARD PLANS M-601-10 AND M-601-20.
2. ALL REINFORCING BARS SHALL BE EPOXY COATED REBAR AND CONFORM TO ASTM A615 AND SHALL BE GRADE 60.
3. ALL WORK TO INSTALL HEADWALL AND WINGWALLS INCLUDING REBAR REINFORCEMENT, EXCAVATION, BACKFILL, AND COMPACTION SHALL BE PAID UNDER PAY ITEM 601-01000.

A / D2 **P-2 INLET STRUCTURE**
NOT TO SCALE



B / D2 **WOOD BOLLARD DETAIL**
NOT TO SCALE



DISPOSAL AREA NOTES:

1. THE DISPOSAL AREA IS INTENDED TO BE USED FOR UNSUITABLE/MUCK MATERIAL. MATERIAL PLACED HERE SHALL BE FREE FROM ORGANICS AND OTHER DELETERIOUS MATERIAL. STATION RANGE IS APPROXIMATE, MAINTAIN WIDTH AND ADJUST LINEAR DIMENSION AS REQUIRED.
2. PLACE AND COMPACT UNSUITABLE MATERIAL TO 90% OF MODIFIED PROCTOR. WORK TO PLACE AND COMPACT MATERIAL SHALL BE PAID PER PAY ITEM 203-00050.
3. ORGANICS AND OTHER DELETERIOUS MATERIAL SHALL BE DISPOSED OF AT THE CONTRACTOR SUPPLIED LOCATION. DISPOSAL SHALL NOT BE MEASURED SEPARATELY BUT SHALL MEASURED AND PAID UNDER PAY ITEM 203-00050.

C / D2 **DISPOSAL AREA STA 24+00 TO STA 28+00**
NOT TO SCALE

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CITY OF WOODLAND PARK
GLEN ASPEN DAM - ACCESS IMPROVEMENTS
DETAILS

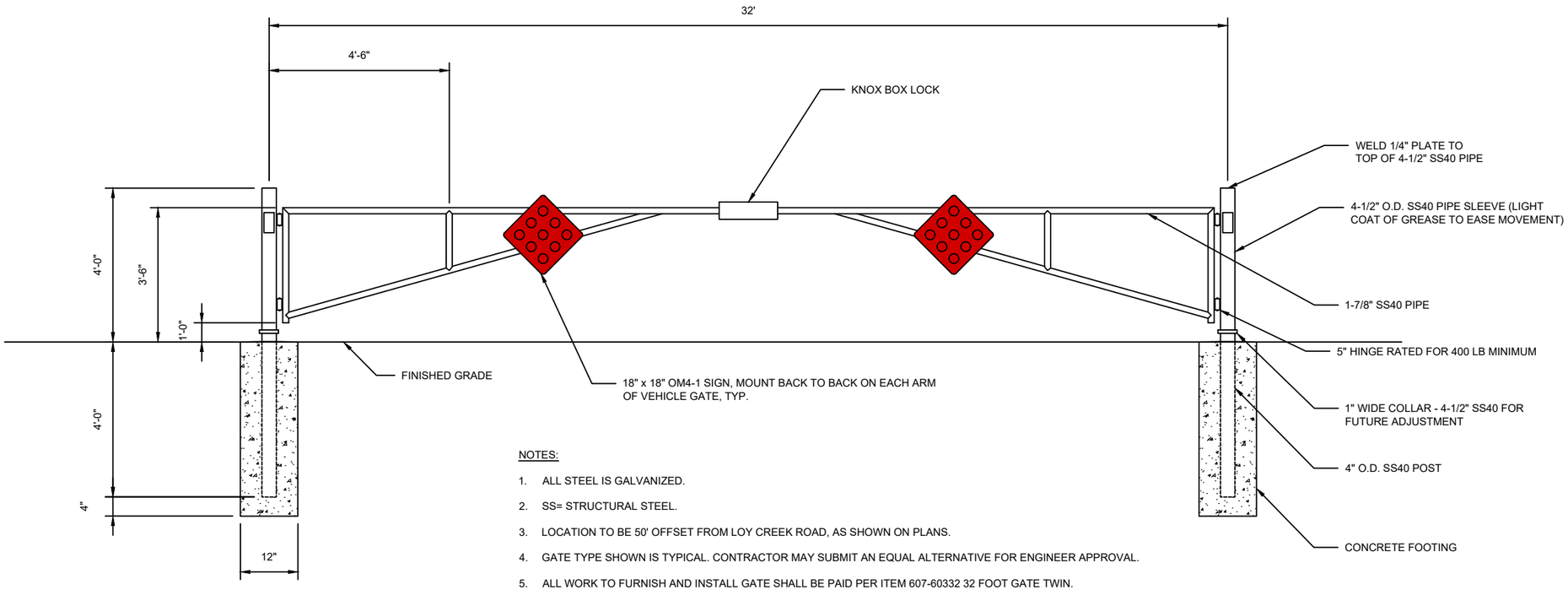
REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
D2

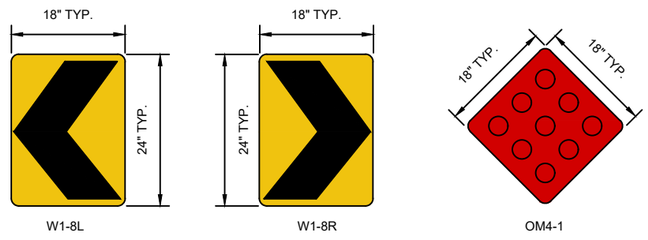


NOTES:

1. ALL STEEL IS GALVANIZED.
2. SS= STRUCTURAL STEEL.
3. LOCATION TO BE 50' OFFSET FROM LOY CREEK ROAD, AS SHOWN ON PLANS.
4. GATE TYPE SHOWN IS TYPICAL. CONTRACTOR MAY SUBMIT AN EQUAL ALTERNATIVE FOR ENGINEER APPROVAL.
5. ALL WORK TO FURNISH AND INSTALL GATE SHALL BE PAID PER ITEM 607-60332 32 FOOT GATE TWIN.

A D3 VEHICLE GATE

NOT TO SCALE



NOTES:

1. CHEVRON SIGN PLACEMENT SHALL BE MOUNTED AT 7' HEIGHT FROM THE SHOULDER AND OBJECT MARKER SIGN PLACEMEWNT SHALL BE MOUNTED AT 4' HEIGHT FROM THE GRAVEL LANE AT THE END OF THE PROJECT LIMITS. ALL SIGNS SHALL CONFORM TO CDOT STANDARD PLAN S-614-1 AND AS SHOWN ON THE F-SHEETS.
2. SIGN ORIENTATION SHALL BE AS SHOWN ON THE F-SHEETS AND ARE INTENDED TO DIRECT MOTORISTS THROUGH THE CURVES. CONFIRM SIGN ORIENTATION WITH ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
3. SIGN SUPPORTS SHALL BE TUBULAR STEEL AND CONFORM TO CDOT STANDARD PLAN S-614-8. ALL WORK TO FURNISH AND INSTALL SIGN SUPPORTS INCLUDED AND NOT LIMITED TO CONCRETE BASE SHALL BE CONSIDERED INCIDENTAL TO 614-00220 SIGNPOST AND NO SEPARATE PAYMENT WILL BE MADE.

B D3 SIGN DETAIL

NOT TO SCALE

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CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
DETAILS

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
D3

IF BAR DOES NOT MEASURE ONE INCH,
SCALE OF THIS DRAWING HAS BEEN ALTERED

1"

SECONDARY ACCESS

P-3

SHEET F9

LOY CREEK STREAM CROSSING

LOY CREEK

LOY CREEK
STREAM CROSSING

PRESCRIPTIVE ROW

PRESCRIPTIVE ROW

SECTION #: 17 NE 1/4 OF THE NW 1/4
PARCEL #: 8200000060

SECTION #: 17 NW 1/4 OF THE NW 1/4
PARCEL #: 8200000060

SECTION #: 17 NW 1/4 OF THE NW 1/4
PARCEL #: 8200000060

SECTION #: 17 SW 1/4 OF THE NW 1/4
PARCEL #: 8200000060

SECTION #: 18 SE 1/4 OF THE NE 1/4
PARCEL #: 3931.181000050

LOY CREEK ROAD (PUBLIC EPC)

EXISTING TRAIL

40+.0

45+00

46+17

SHEET F6

SHEET F5

SHEET F4

SHEET F3

SHEET F2

SHEET F8

BEGIN PRIMARY ACCESS
STA. 10+12

10+00

15+00

20+00

25+00

30+00

35+00

P-2

P-1

LOY CREEK
STREAM CROSSING

DRAINAGE CROSSING

FOUND NATURAL SPRING

EL PASO COUNTY
TELLER COUNTY

COUNTY LINE SHOWN AT
APPROXIMATE LOCATION

0' 150' 300'

SCALE 11x17: 1" = 300'

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CITY OF WOODLAND PARK

GLEN ASPEN DAM – ACCESS IMPROVEMENTS

PROJECT KEYMAP

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED
64503
PROFESSIONAL ENGINEER

Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

SHEET NUMBER
F1

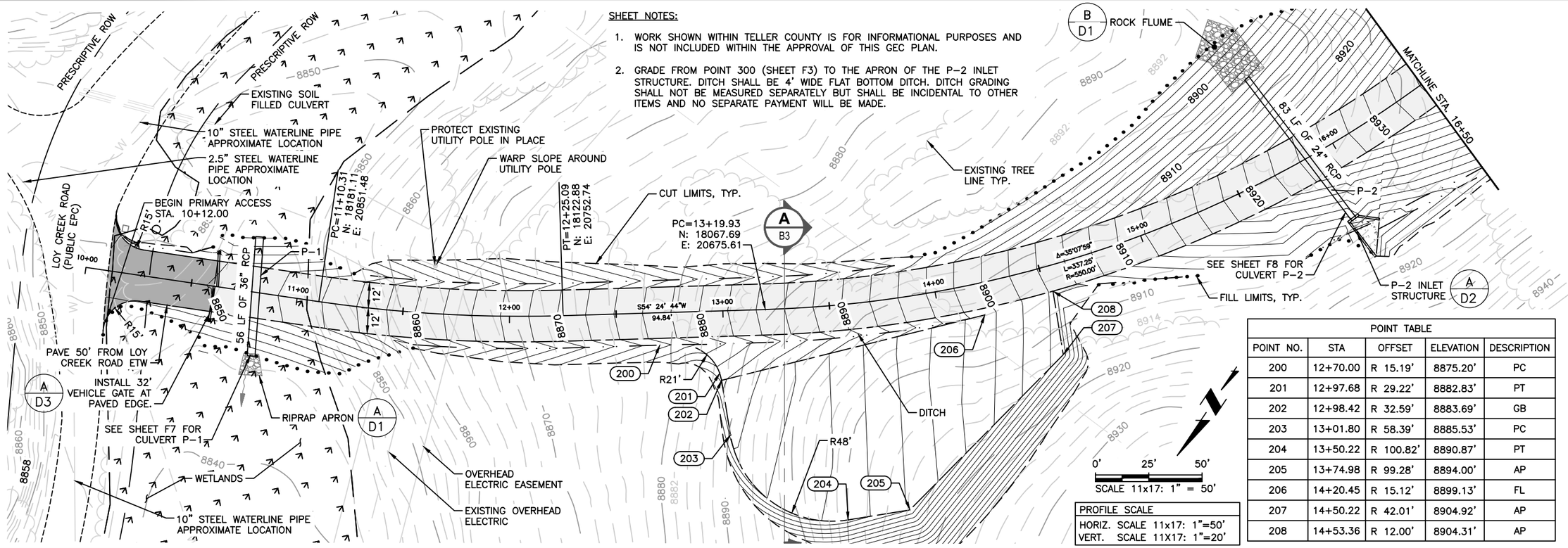
2026/02/13 6:15 PM By: Dominic Russo N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_Keymaps.dwg

IF BAR DOES NOT MEASURE ONE INCH, SCALE OF THIS DRAWING HAS BEEN ALTERED

1"

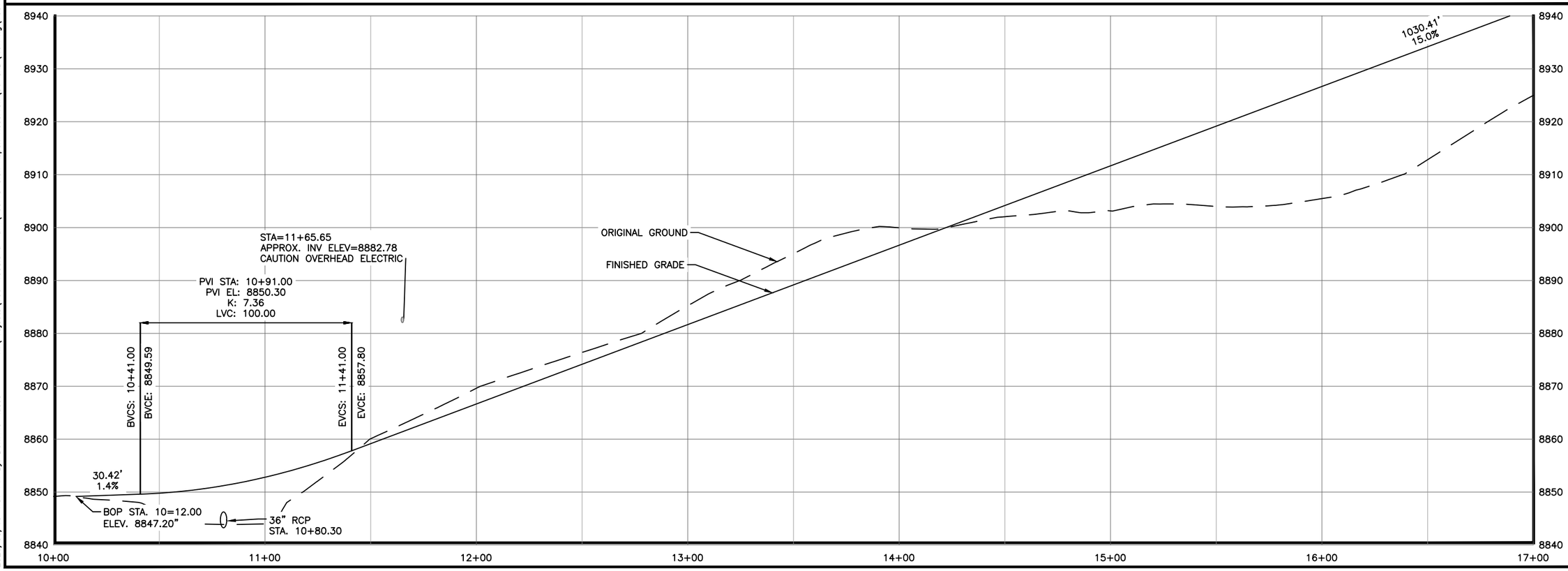
SHEET NOTES:

1. WORK SHOWN WITHIN TELLER COUNTY IS FOR INFORMATIONAL PURPOSES AND IS NOT INCLUDED WITHIN THE APPROVAL OF THIS GEC PLAN.
2. GRADE FROM POINT 300 (SHEET F3) TO THE APRON OF THE P-2 INLET STRUCTURE. DITCH SHALL BE 4' WIDE FLAT BOTTOM DITCH. DITCH GRADING SHALL NOT BE MEASURED SEPARATELY BUT SHALL BE INCIDENTAL TO OTHER ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.



PROFILE SCALE
HORIZ. SCALE 11x17: 1"=50'
VERT. SCALE 11X17: 1"=20'

POINT TABLE				
POINT NO.	STA	OFFSET	ELEVATION	DESCRIPTION
200	12+70.00	R 15.19'	8875.20'	PC
201	12+97.68	R 29.22'	8882.83'	PT
202	12+98.42	R 32.59'	8883.69'	GB
203	13+01.80	R 58.39'	8885.53'	PC
204	13+50.22	R 100.82'	8890.87'	PT
205	13+74.98	R 99.28'	8894.00'	AP
206	14+20.45	R 15.12'	8899.13'	FL
207	14+50.22	R 42.01'	8904.92'	AP
208	14+53.36	R 12.00'	8904.31'	AP



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CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

PRIMARY ACCESS PLAN AND PROFILE - STA. 10+00 TO STA. 17+00

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2	P-2 INLET GRADING	KMG	KMG	MAR 2026
3				
4				
5				
6				
7				

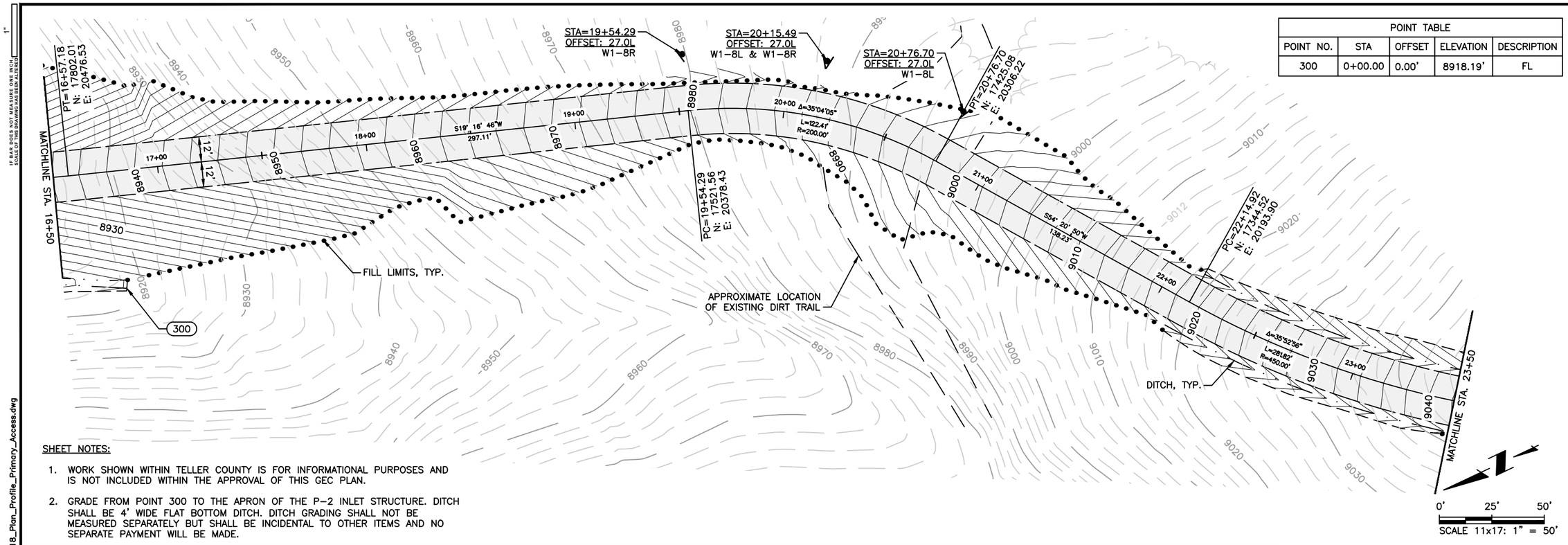
FINAL

COLORADO LICENSED
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

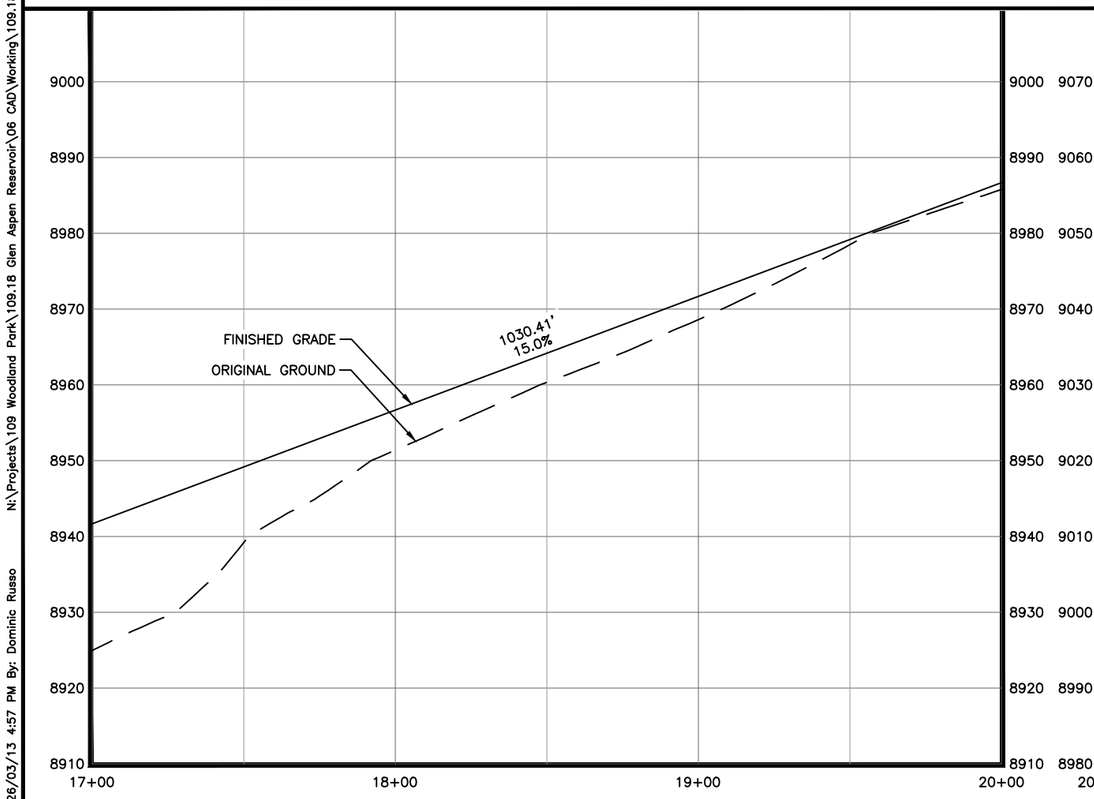
SHEET NUMBER
F2

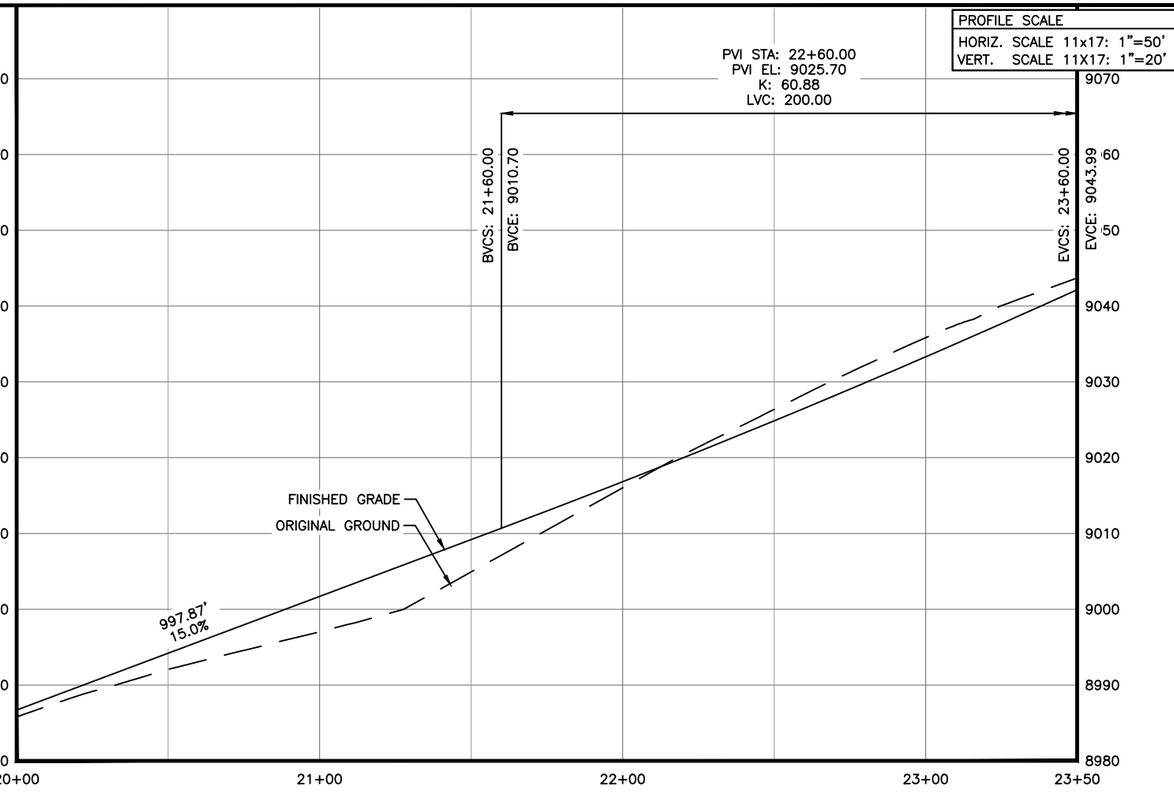
2026/03/13 4:57 PM By: Dominic Russo N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_Plan_Profile_Primary_Access.dwg



SHEET NOTES:

1. WORK SHOWN WITHIN TELLER COUNTY IS FOR INFORMATIONAL PURPOSES AND IS NOT INCLUDED WITHIN THE APPROVAL OF THIS GEC PLAN.
2. GRADE FROM POINT 300 TO THE APRON OF THE P-2 INLET STRUCTURE. DITCH SHALL BE 4' WIDE FLAT BOTTOM DITCH. DITCH GRADING SHALL NOT BE MEASURED SEPARATELY BUT SHALL BE INCIDENTAL TO OTHER ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.





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CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

PRIMARY ACCESS PLAN AND PROFILE - STA. 17+00 TO STA. 23+50

REVISIONS

NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2	P-2 INLET GRADING	KMG	KMG	MAR 2026
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

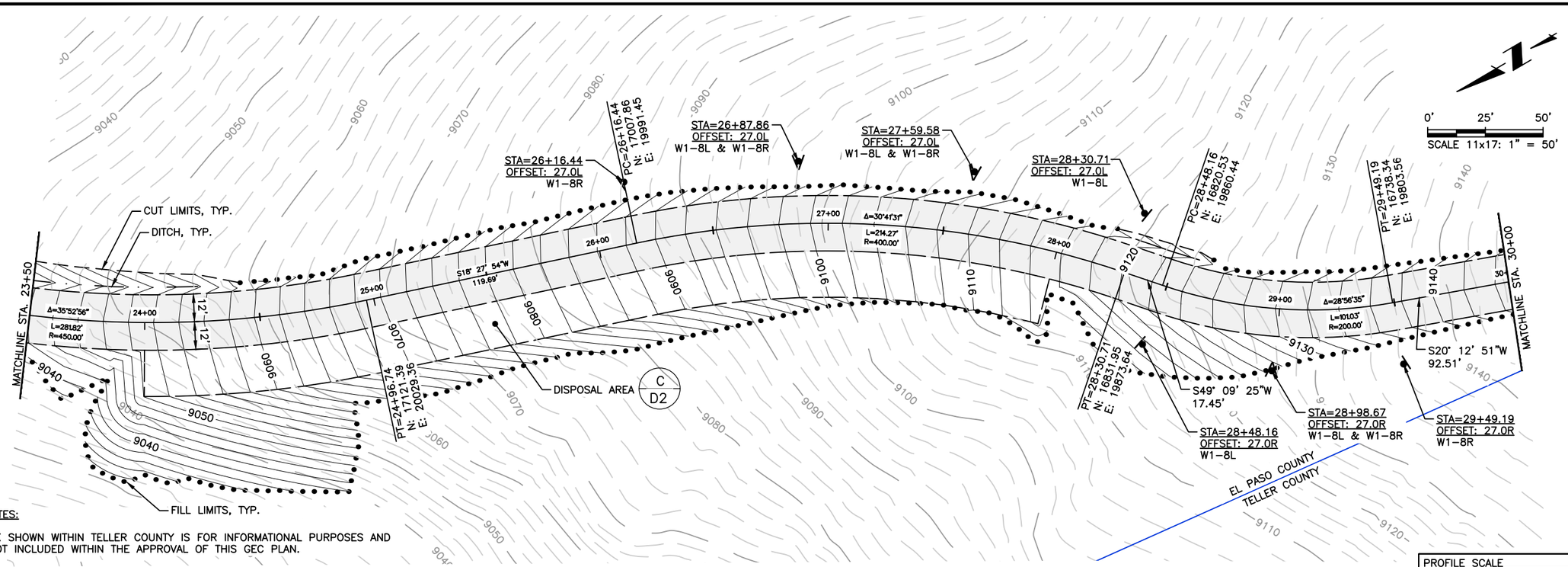
SHEET NUMBER
F3

IF BAR DOES NOT MEASURE ONE INCH, SCALE OF THIS DRAWING HAS BEEN ALTERED

1"

N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_Plan_Profile_Primary_Access.dwg

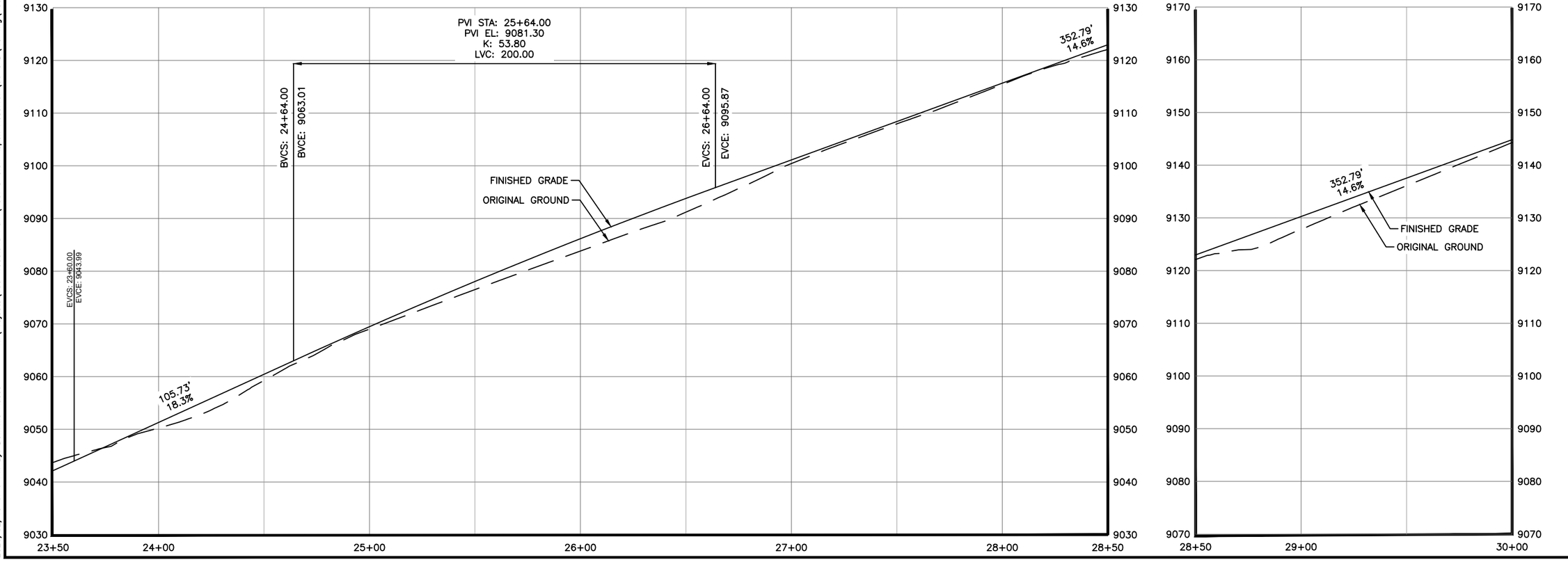
2026/03/13 4:57 PM By: Dominic Russo



SHEET NOTES:

1. WORK SHOWN WITHIN TELLER COUNTY IS FOR INFORMATIONAL PURPOSES AND IS NOT INCLUDED WITHIN THE APPROVAL OF THIS GEC PLAN.

PROFILE SCALE
HORIZ. SCALE 11x17: 1"=50'
VERT. SCALE 11X17: 1"=20'



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CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

PRIMARY ACCESS PLAN AND PROFILE - STA. 23+50 TO STA. 30+00

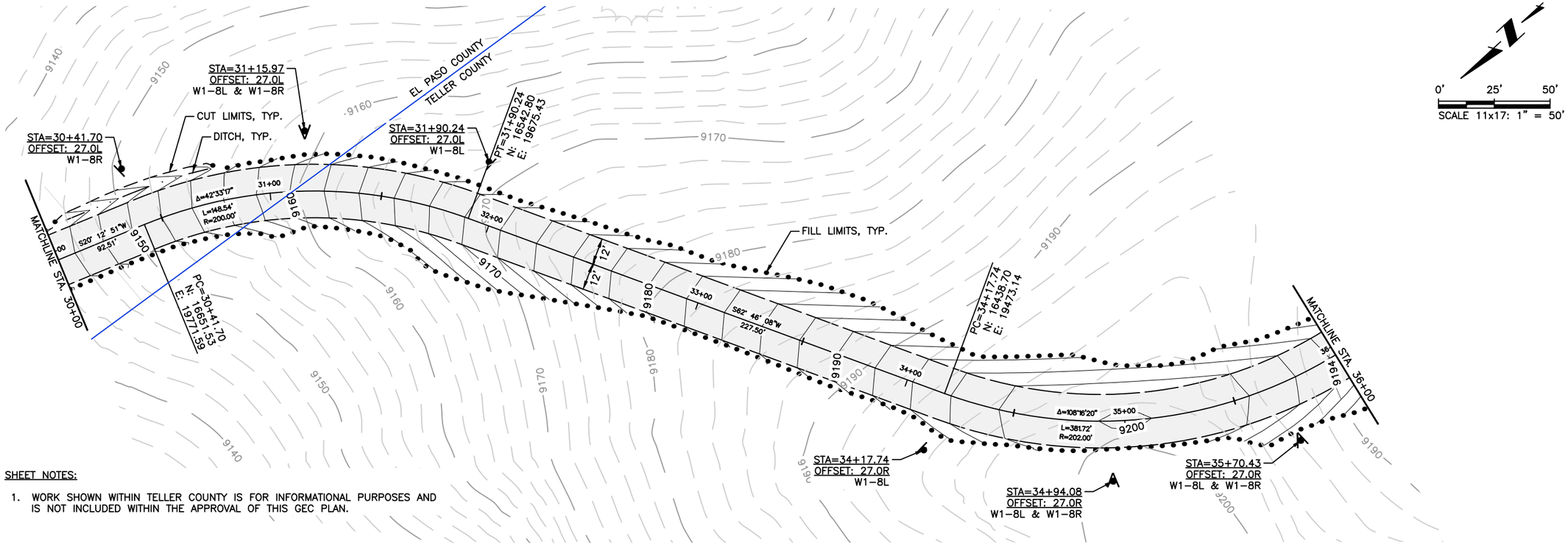
REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED
64503
PROFESSIONAL ENGINEER
02/19/2026

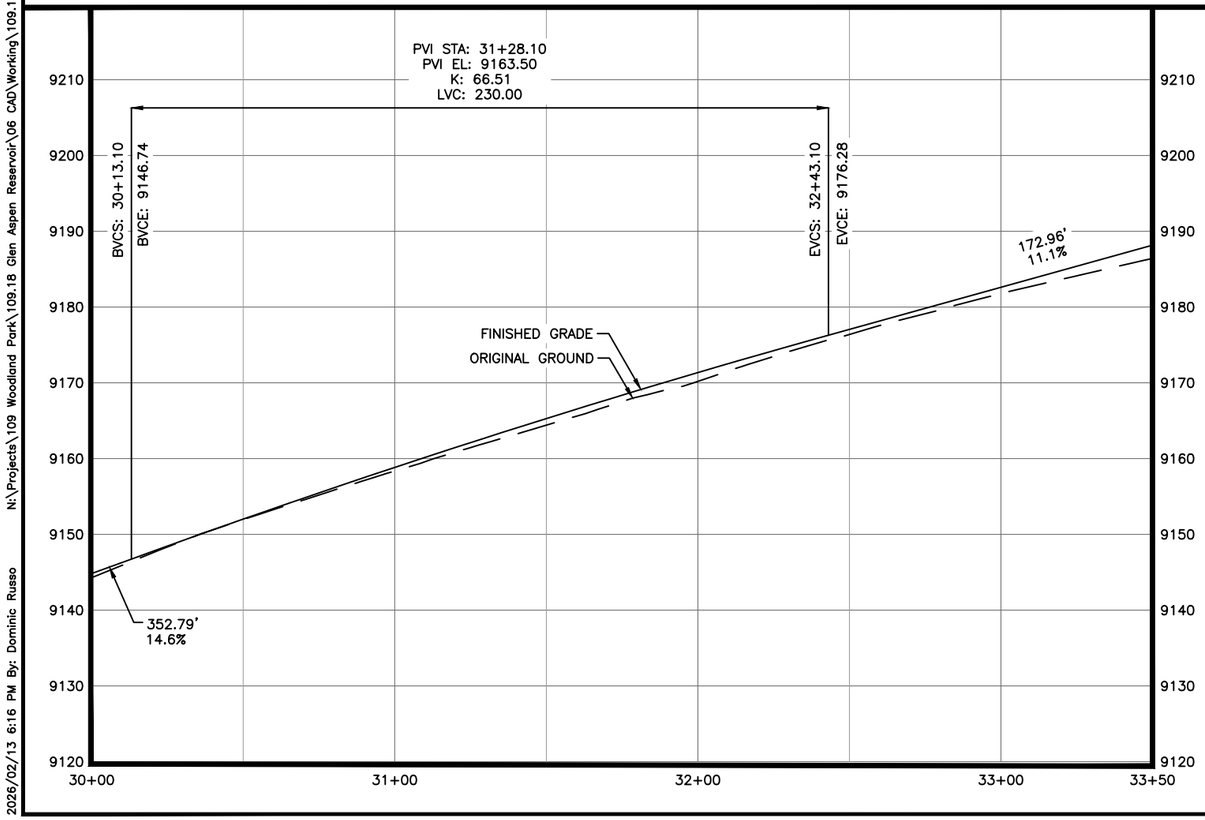
Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

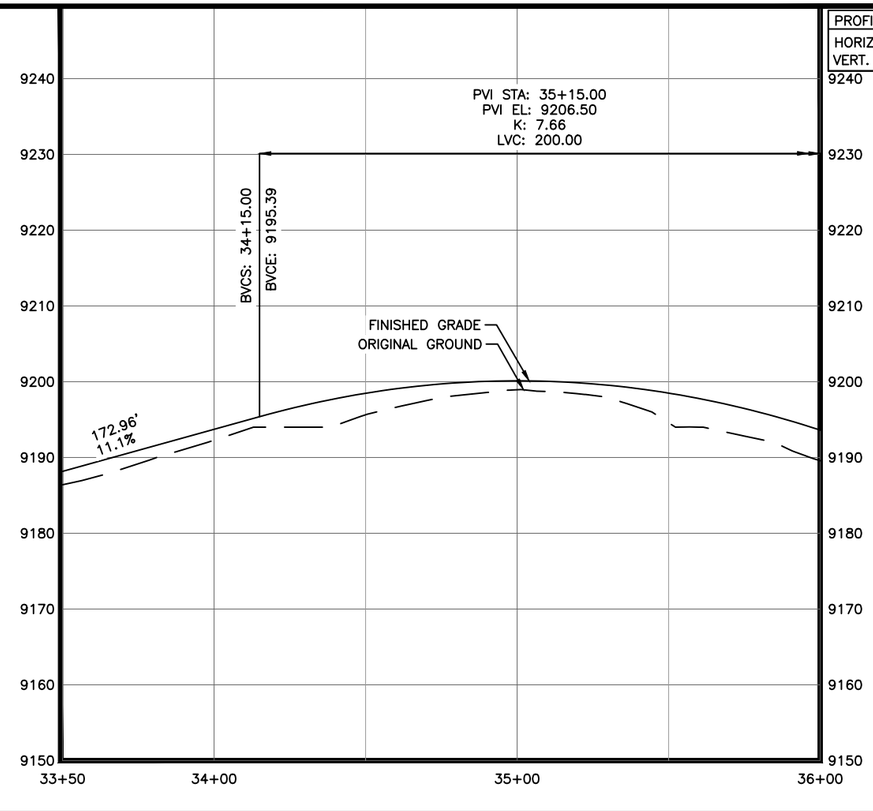
SHEET NUMBER
F 4



SHEET NOTES:

1. WORK SHOWN WITHIN TELLER COUNTY IS FOR INFORMATIONAL PURPOSES AND IS NOT INCLUDED WITHIN THE APPROVAL OF THIS GEC PLAN.





PROFILE SCALE
HORIZ. SCALE 11x17: 1"=50'
VERT. SCALE 11X17: 1"=20'

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CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

PRIMARY ACCESS PLAN AND PROFILE - STA. 30+00 TO STA. 36+00

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMEMNTS	DJR	KMG	FEB 2026
2				
3				
4				
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7				

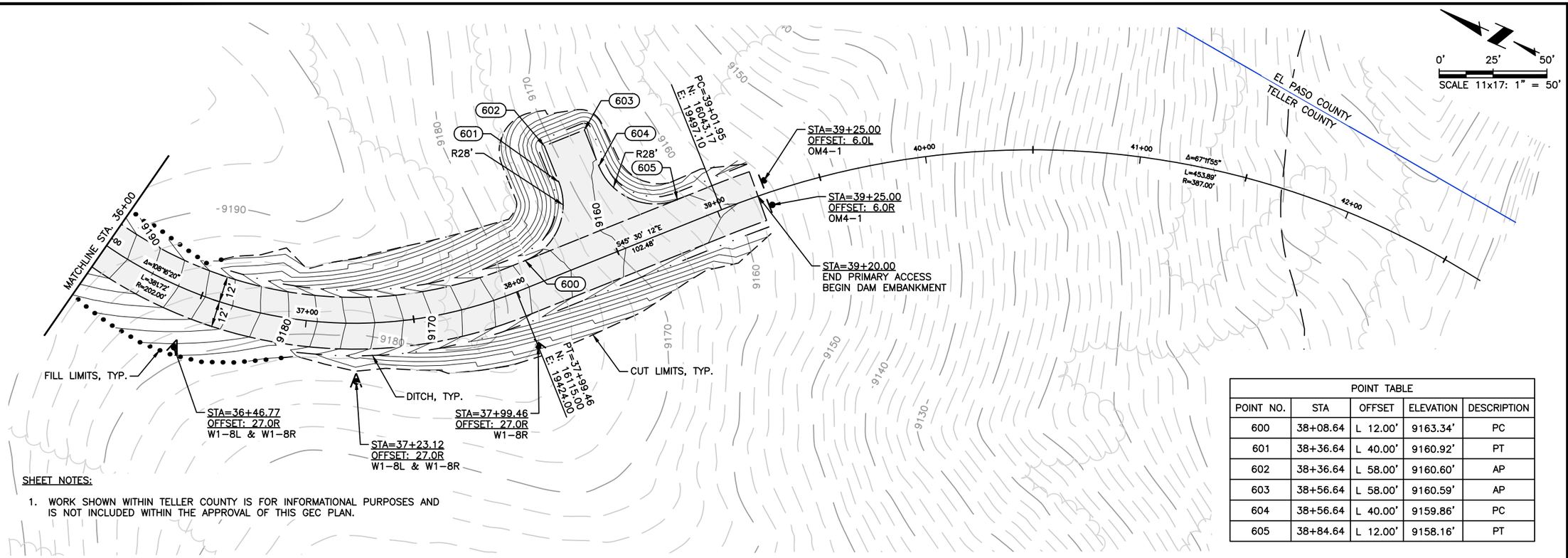
FINAL

COLORADO LICENSED
KATY MATTHEW RUSSO
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

SHEET NUMBER
F5

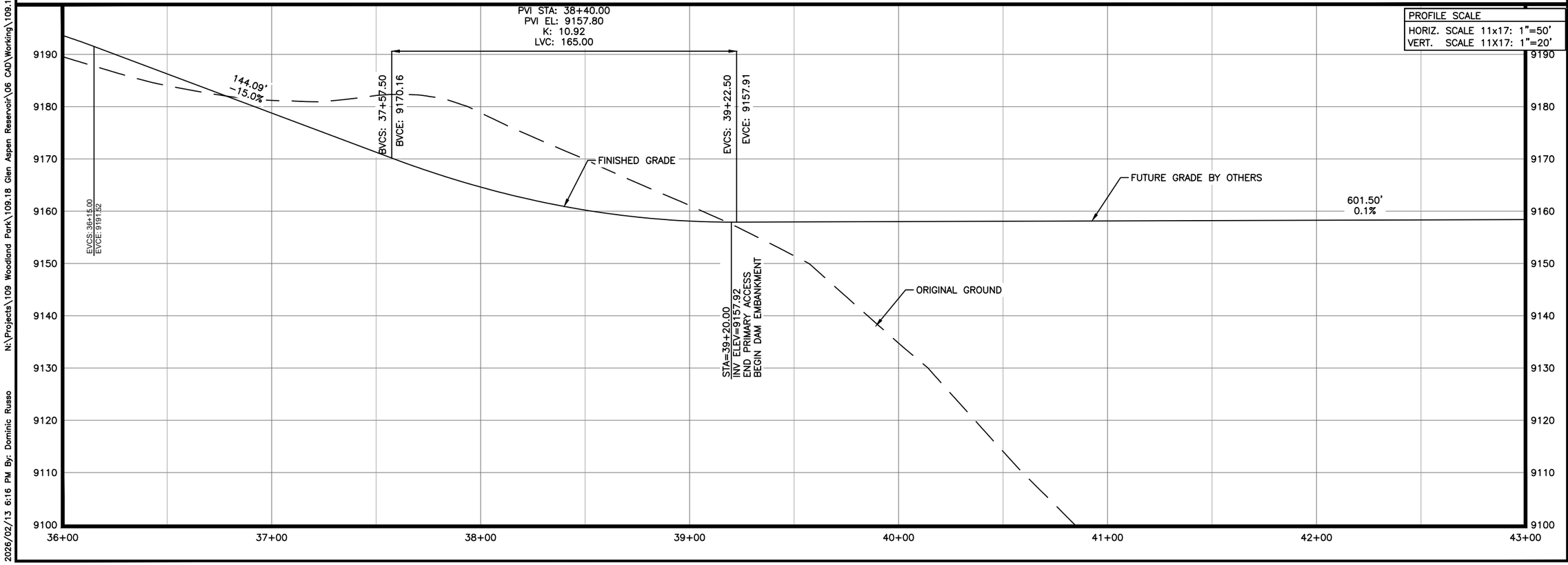
2026/02/13 6:16 PM By: Dominic Russo N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_Plan_Profile_Primary_Access.dwg



SHEET NOTES:

1. WORK SHOWN WITHIN TELLER COUNTY IS FOR INFORMATIONAL PURPOSES AND IS NOT INCLUDED WITHIN THE APPROVAL OF THIS GEC PLAN.

POINT TABLE				
POINT NO.	STA	OFFSET	ELEVATION	DESCRIPTION
600	38+08.64	L 12.00'	9163.34'	PC
601	38+36.64	L 40.00'	9160.92'	PT
602	38+36.64	L 58.00'	9160.60'	AP
603	38+56.64	L 58.00'	9160.59'	AP
604	38+56.64	L 40.00'	9159.86'	PC
605	38+84.64	L 12.00'	9158.16'	PT



PROFILE SCALE
HORIZ. SCALE 11x17: 1"=50'
VERT. SCALE 11X17: 1"=20'

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GLEN ASPEN DAM - ACCESS IMPROVEMENTS

PRIMARY ACCESS PLAN AND PROFILE - STA. 36+00 TO STA. 43+00

REVISIONS					
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
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FINAL

COLORADO LICENSED
64503
PROFESSIONAL ENGINEER
2/19/2026

Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

SHEET NUMBER
F6

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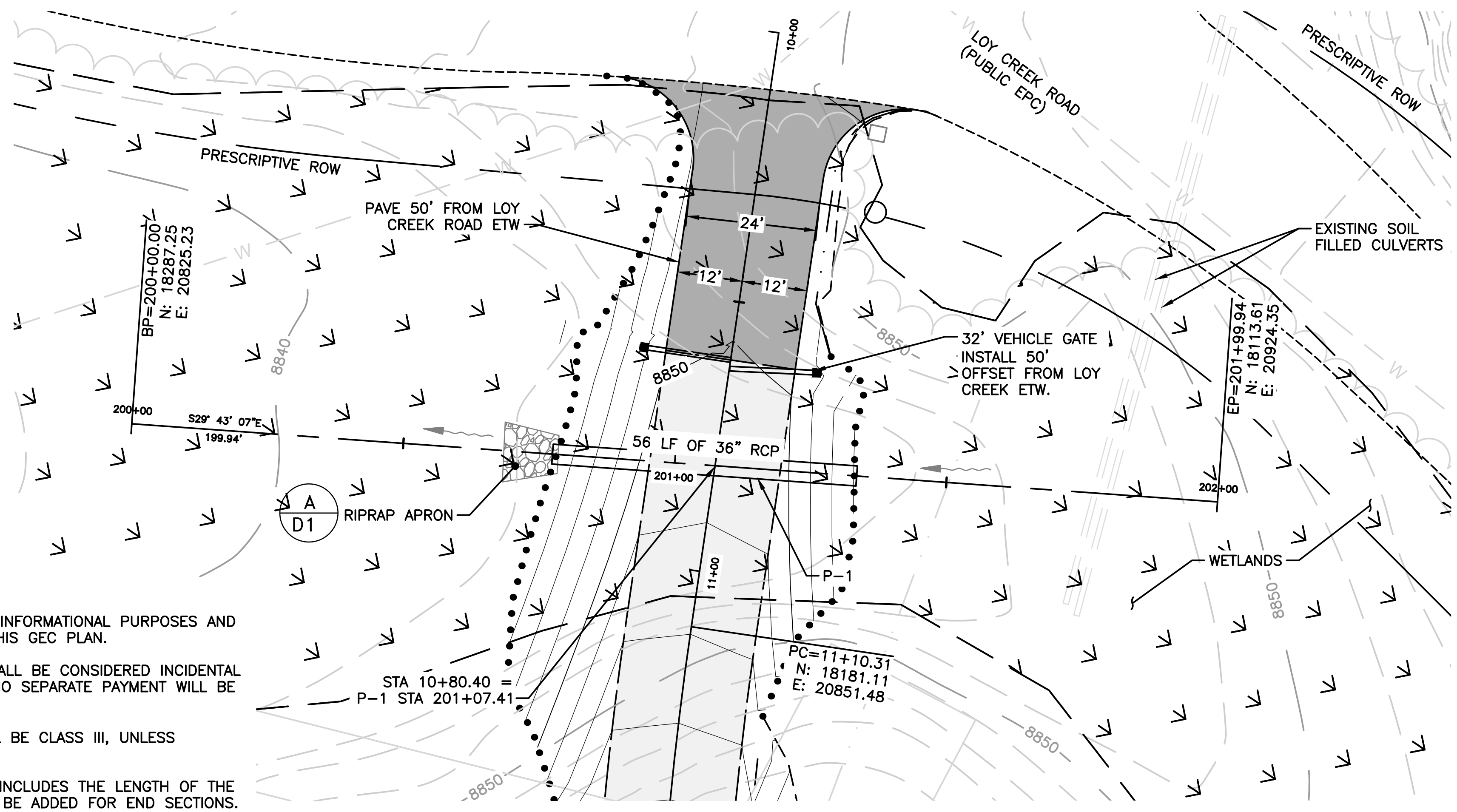
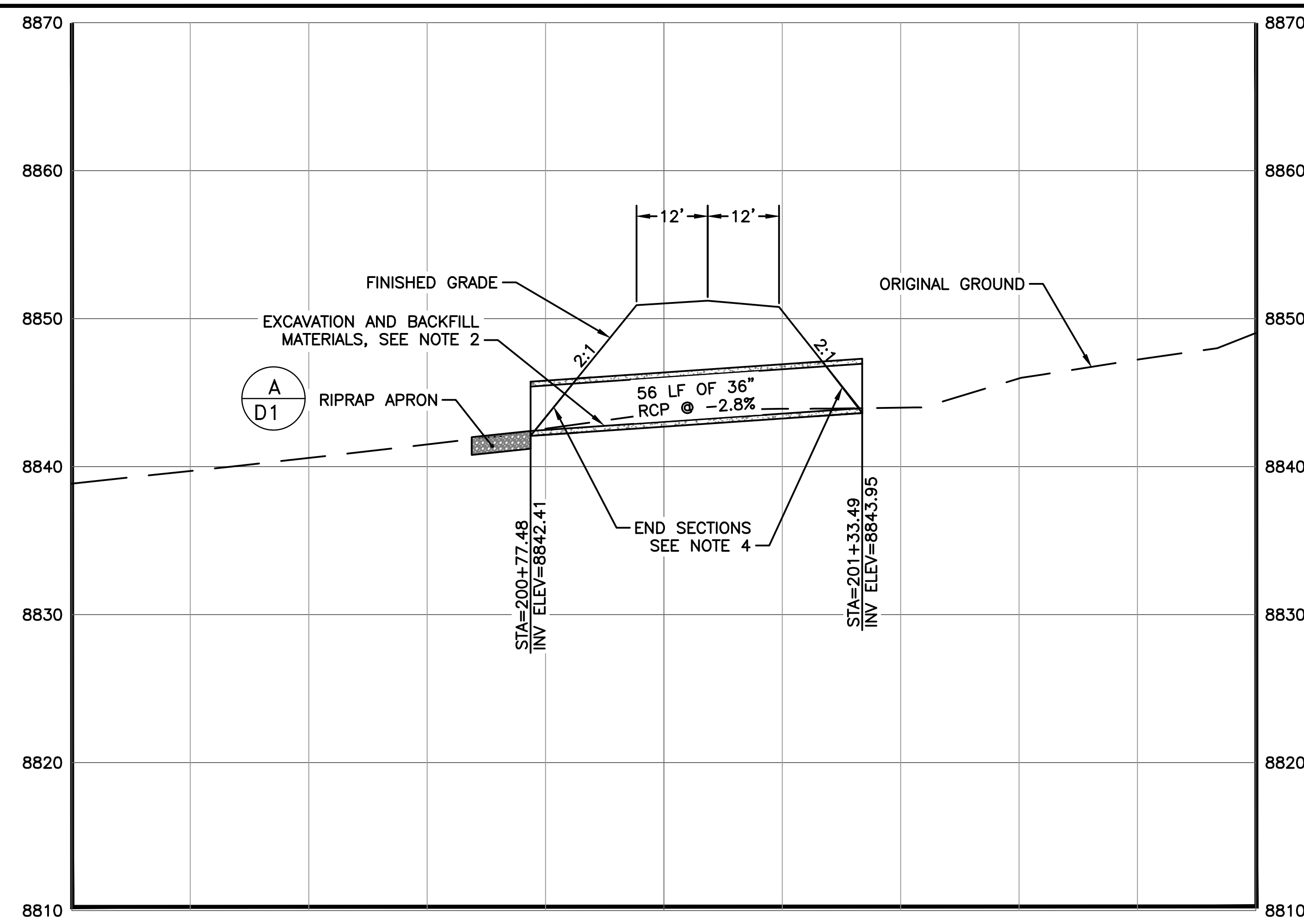


SHEET NOTES:

1. WORK SHOWN WITHIN TELLER COUNTY IS FOR INFORMATIONAL PURPOSES AND IS NOT INCLUDED WITHIN THE APPROVAL OF THIS GEC PLAN.
2. ALL EXCAVATION, BACKFILL AND BEDDING, SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE CULVERT PAY ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
3. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
4. CULVERT TOTAL LENGTH INDICATED ON PLANS INCLUDES THE LENGTH OF THE END SECTIONS. NO ADDITIONAL LENGTH SHALL BE ADDED FOR END SECTIONS.

0' 15' 30'
SCALE 11x17: 1" = 30'



PROFILE SCALE	
HORIZ. SCALE 11x17: 1"=30'	
VERT. SCALE 11X17: 1"=12'	

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CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
PRIMARY ACCESS PLAN AND PROFILE – CULVERT P-1

REVISIONS

NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
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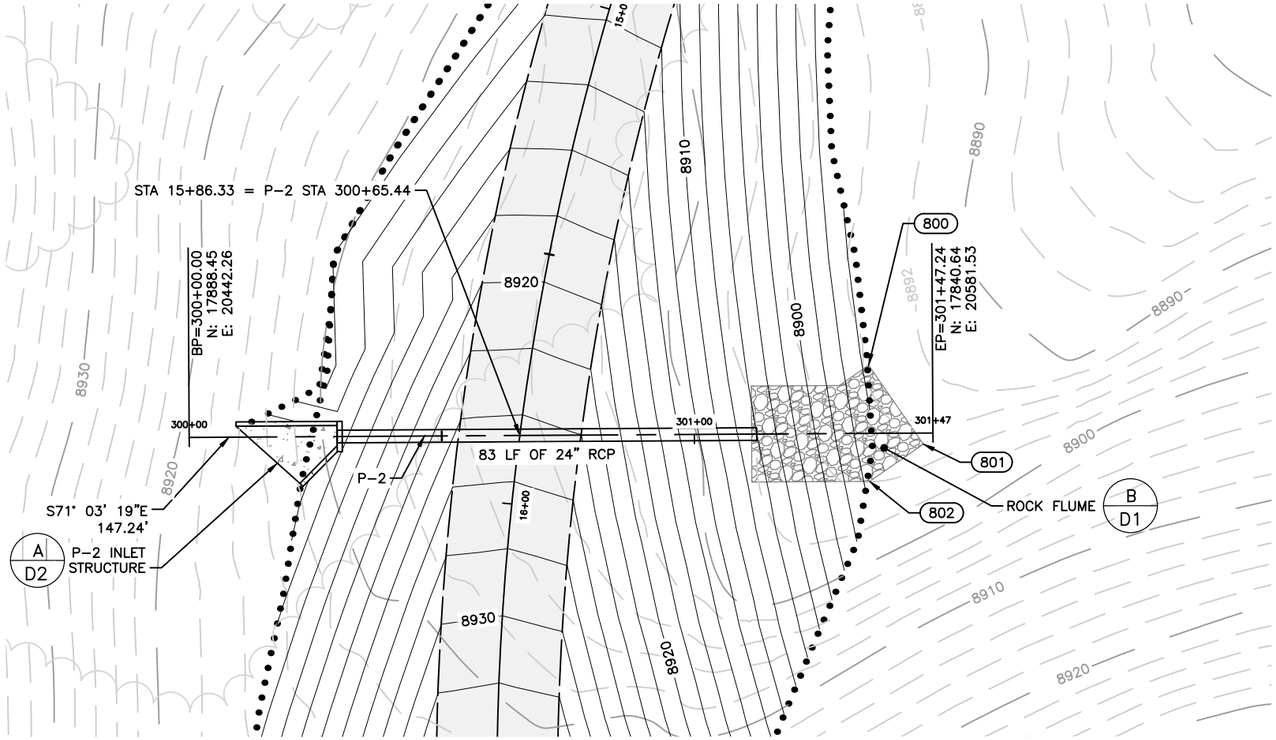
FINAL

COLORADO LICENSED PROFESSIONAL ENGINEER 64503 12/19/2025

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

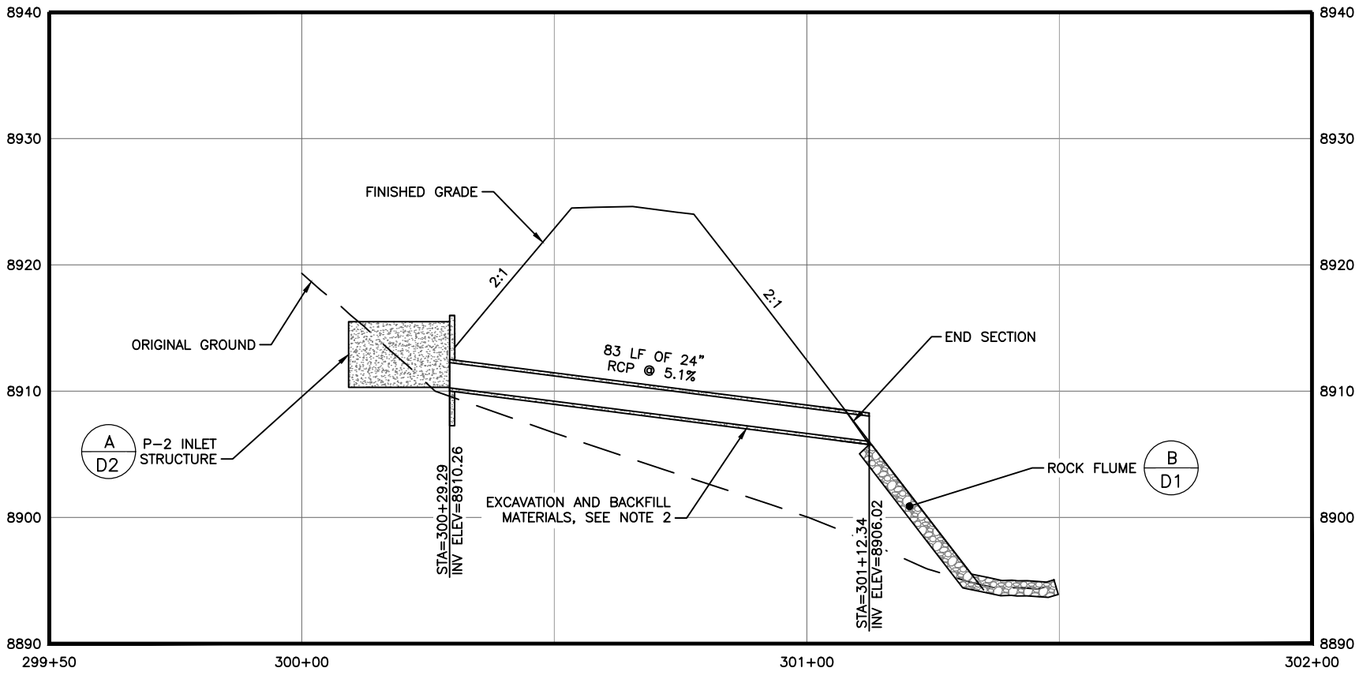
SHEET NUMBER
F7



0' 15' 30'
SCALE 11x17: 1" = 30'

POINT TABLE				
POINT NO.	STA	OFFSET	ELEVATION	DESCRIPTION
800	15+60.57	L 66.17'	8893.81'	RIPRAP
801	15+76.32	L 79.37'	8894.87'	RIPRAP
802	15+86.47	L 69.85'	8896.02'	RIPRAP

PROFILE SCALE
HORIZ. SCALE 11x17: 1"=30'
VERT. SCALE 11X17: 1"=12'



SHEET NOTES:

1. WORK SHOWN WITHIN TELLER COUNTY IS FOR INFORMATIONAL PURPOSES AND IS NOT INCLUDED WITHIN THE APPROVAL OF THIS GEC PLAN.
2. ALL EXCAVATION, BACKFILL AND BEDDING, SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE CULVERT PAY ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
3. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
4. CULVERT TOTAL LENGTH INDICATED ON PLANS INCLUDES THE LENGTH OF THE END SECTION. NO ADDITIONAL LENGTH SHALL BE ADDED FOR END SECTION.

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CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

PRIMARY ACCESS PLAN AND PROFILE - CULVERT P-2

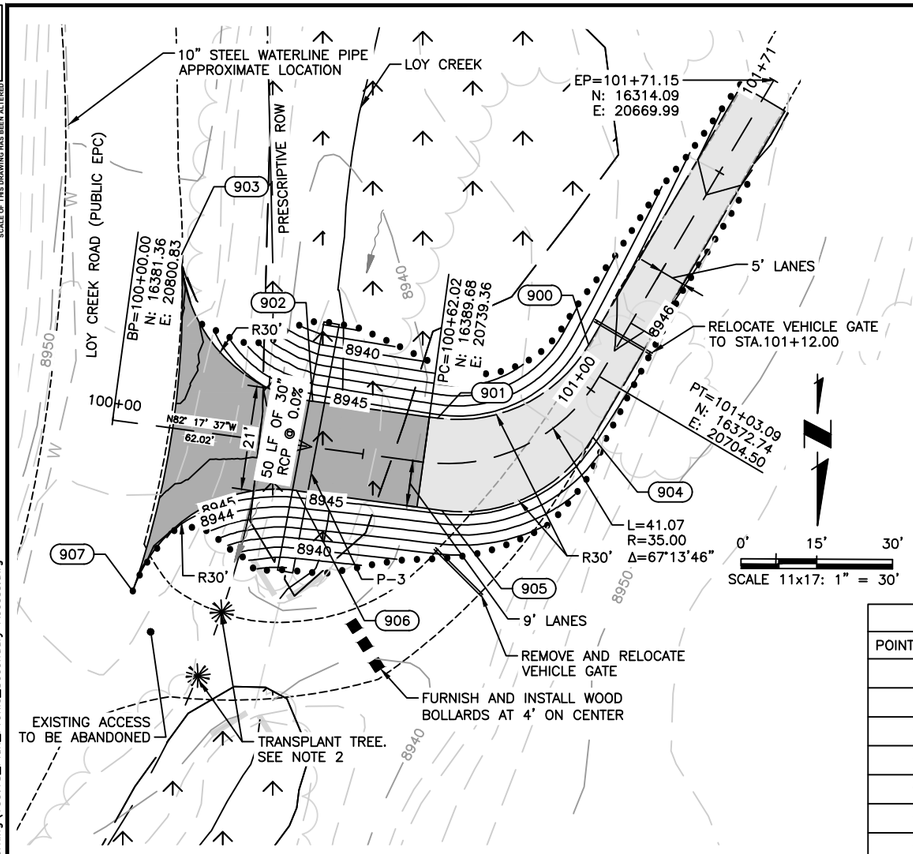
REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED
KEVIN GARY MATTHEWS
64503
02/19/2026
PROFESSIONAL ENGINEER

Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

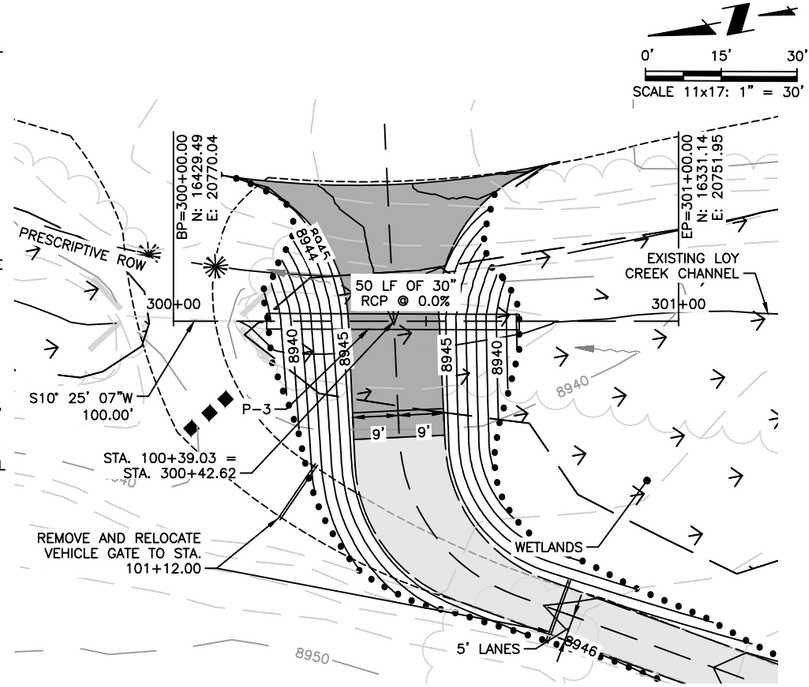
SHEET NUMBER
F8

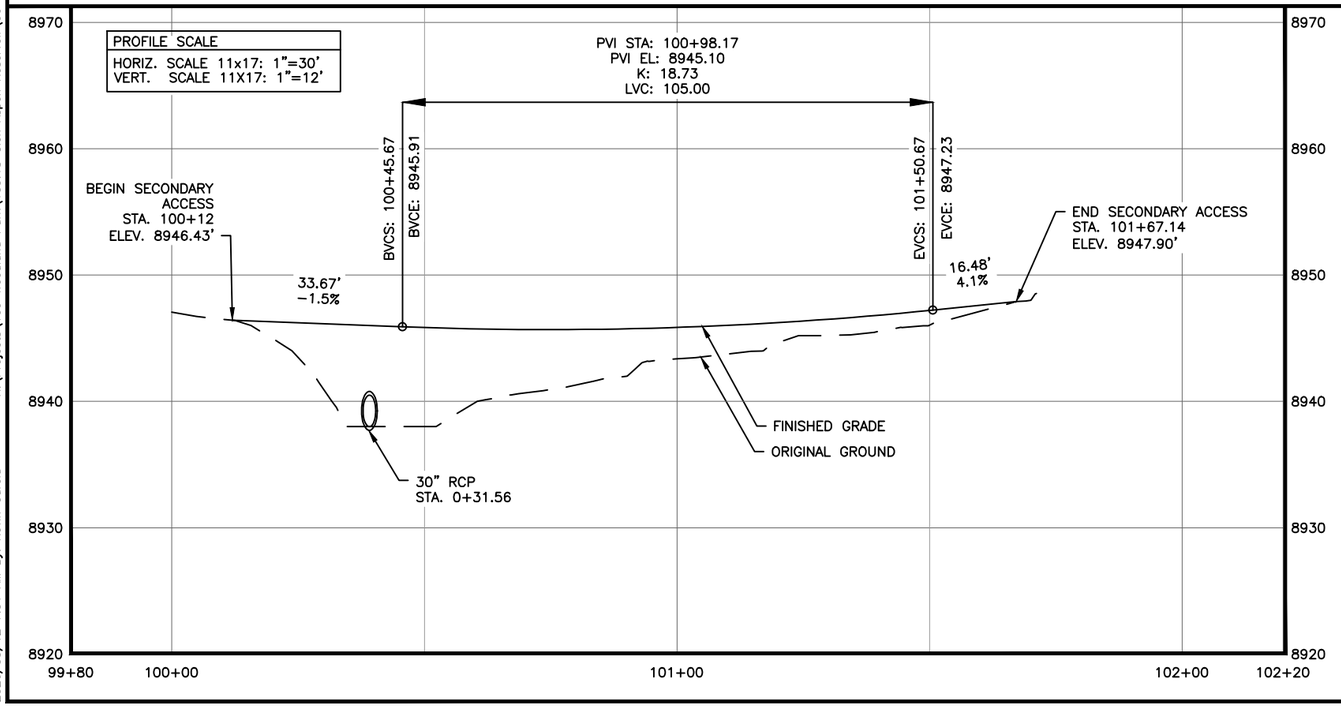


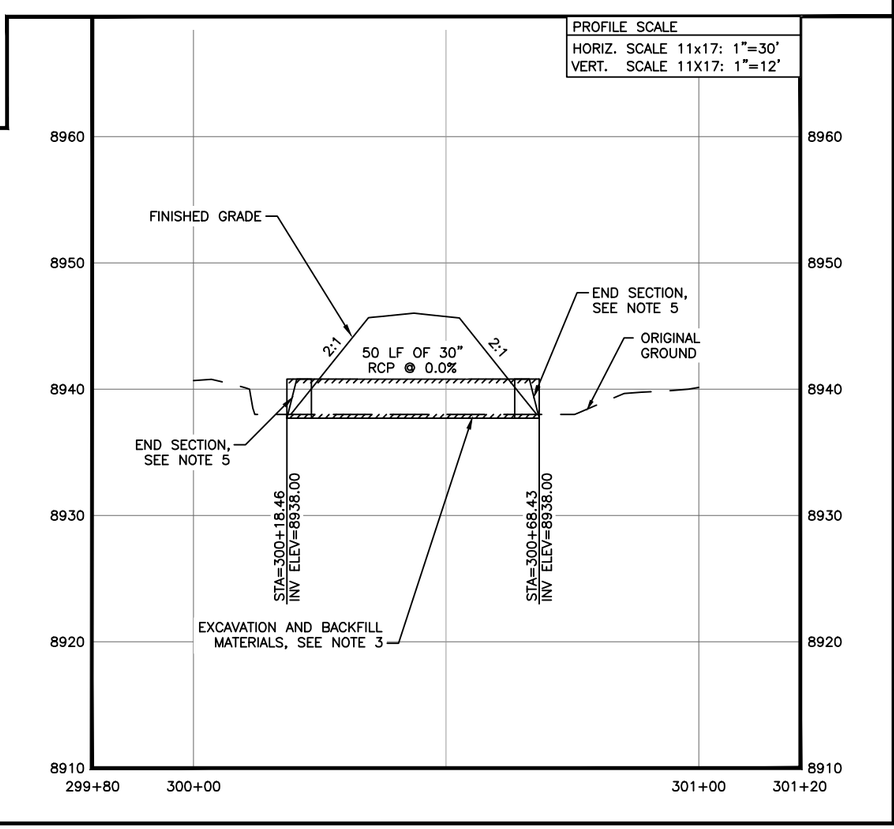
SHEET NOTES:

1. WORK SHOWN WITHIN TELLER COUNTY IS FOR INFORMATIONAL PURPOSES AND IS NOT INCLUDED WITHIN THE APPROVAL OF THIS GEC PLAN.
2. TRANSPLANT TREES A MINIMUM OF 30' FROM THE ROAD CENTERLINE AND 5' FROM THE EXISTING BRIDGE. SPACE TREES 10' APART. ALL MEASUREMENTS ARE FROM THE TRUNK OF THE TREE. TREES SHALL BE OBTAINED FROM CONSTRUCTION OF THE PRIMARY ACCESS ROAD. ALL WORK RELATED TO PREPARING TRANSPLANT LOCATION, TRANSPLANTING, AND MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM 215-00200 AND NO SEPARATE PAYMENT WILL BE MADE. ADJACENT ACCESS SHALL BE CONSTRUCTED AND OPERATIONAL PRIOR TO INSTALLATION OF THE TREES AND BOLLARDS. TREE SHALL BE A BLUE SPRUCE AT LEAST 5.5' IN PLANTED HEIGHT. CONTRACTOR SHALL COORDINATE WITH ENGINEER IN THE FIELD NOT LESS THAN 72 HOURS BEFORE TRANSPLANTING WORK TO SELECT TREE.
3. ALL EXCAVATION, BACKFILL AND BEDDING, SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE CULVERT PAY ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
4. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
5. CULVERT TOTAL LENGTH INDICATED ON PLANS INCLUDES THE LENGTH OF THE END SECTION. NO ADDITIONAL LENGTH SHALL BE ADDED FOR END SECTION.
6. ALL WORK ASSOCIATED WITH REMOVING, SALVAGING, AND REINSTALLATION OF THE GATE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPERATE PAYMENT WILL BE MADE.

POINT TABLE				
POINT NUMBER	STA	OFFSET	ELEVATION	DESCRIPTION
900	101+07.43	L 5.00'	8945.77'	PT
901	100+64.28	L 8.95'	8945.35'	PC
902	100+38.73	L 9.00'	8945.66'	PT
903	100+09.09	L 34.33'	8948.25'	ME
904	100+93.71	R 6.48'	8945.52'	PT
905	100+65.96	R 9.28'	8945.33'	PC
906	100+37.96	R 9.00'	8945.67'	PT
907	100+08.50	R 33.05'	8944.27'	ME







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CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

SECONDARY ACCESS PLAN AND PROFILE - STA. 100+00 TO STA. 101+67 CULVERT 30 INCH RCP

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2	EPC COMMENTS	KEG	KMG	MAR 2026
3				
4				
5				
6				
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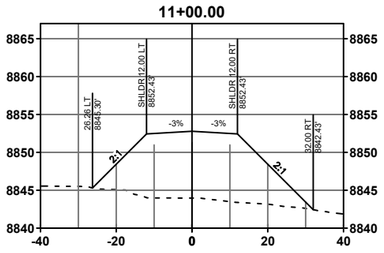
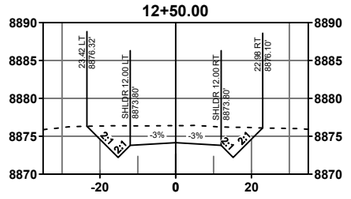
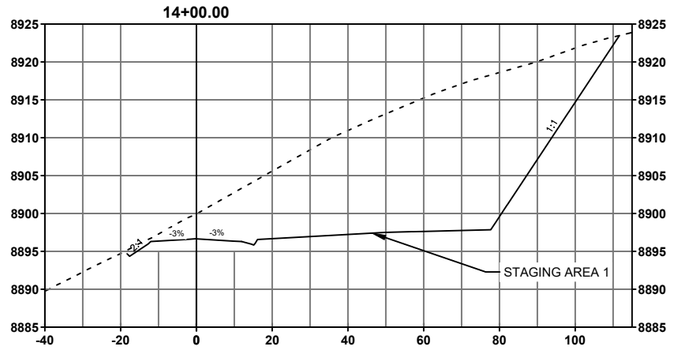
FINAL

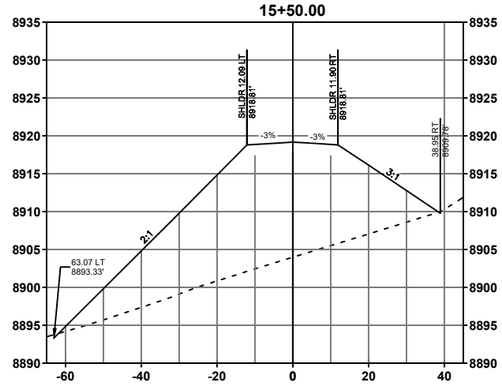
Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

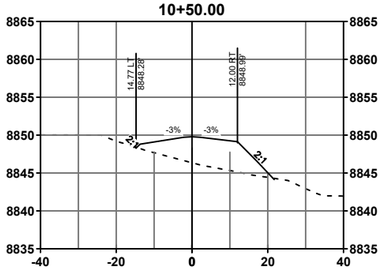
SHEET NUMBER
F9

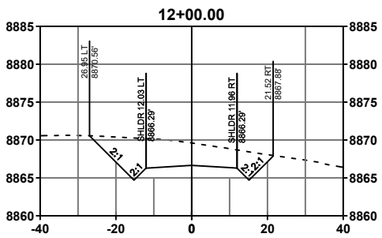


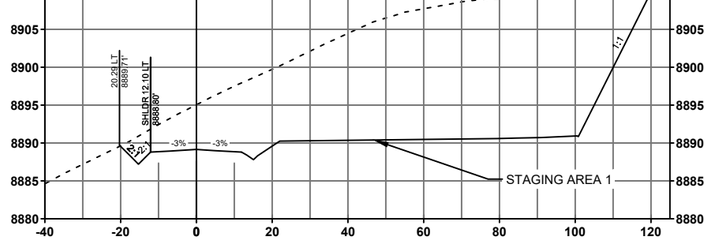


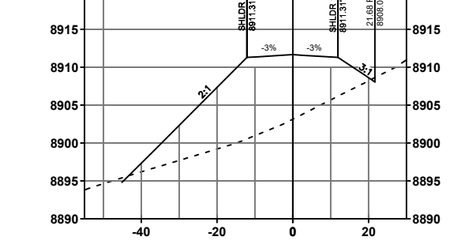


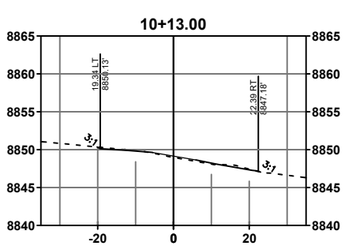


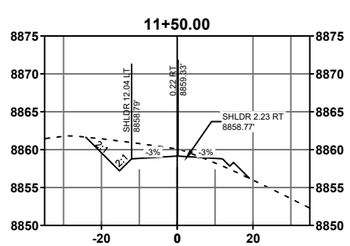


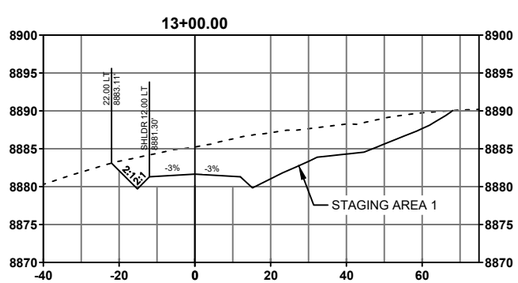


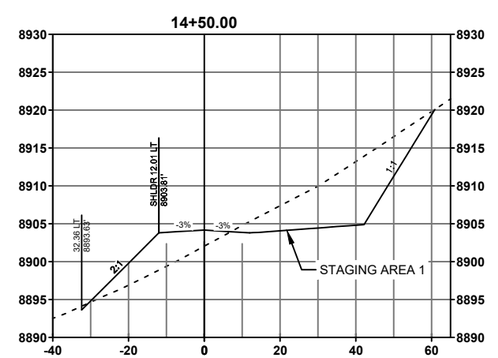












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CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
PRIMARY ACCESS CROSS SECTIONS

REVISIONS			
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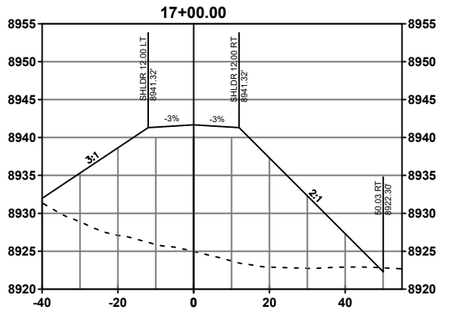

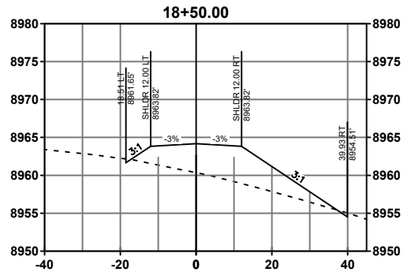

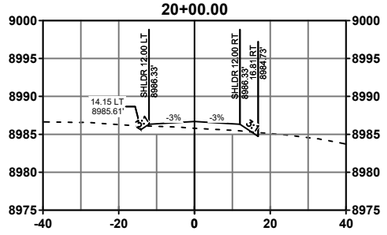

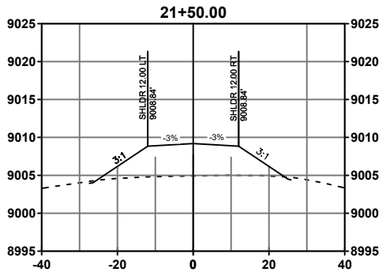

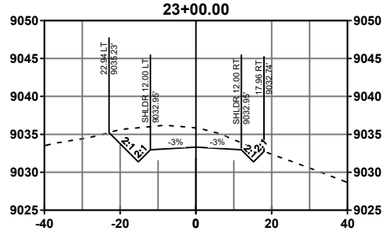

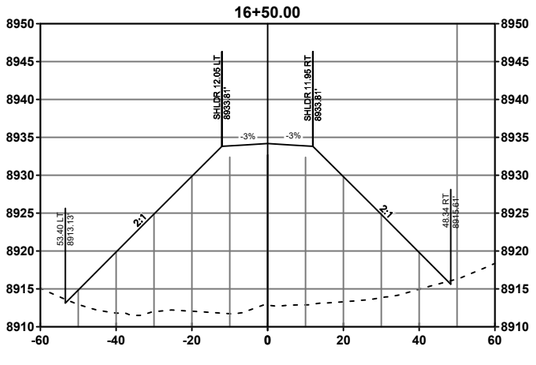

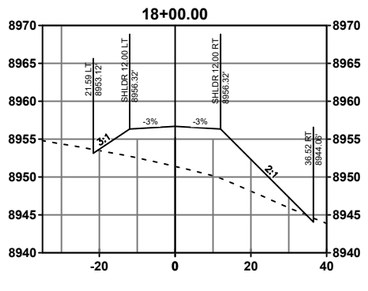

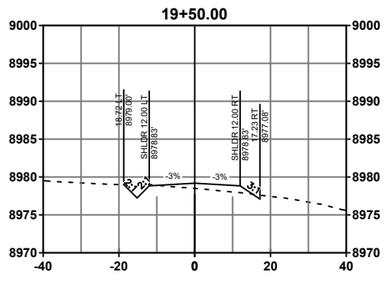

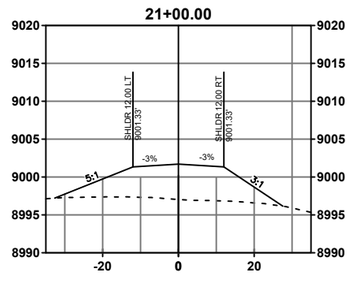

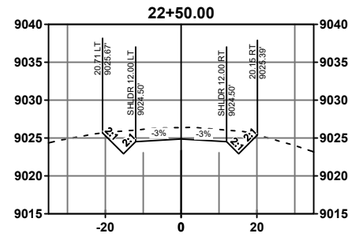

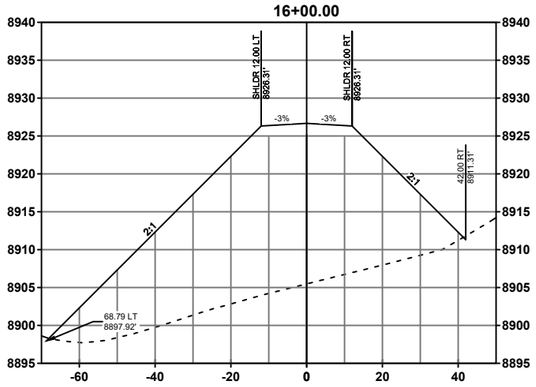

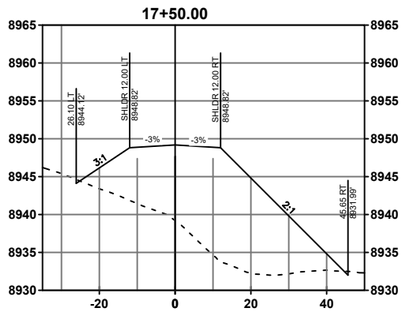

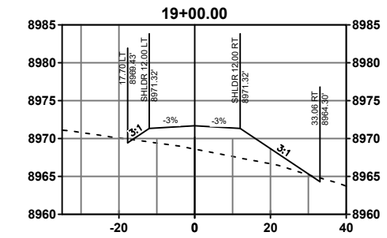

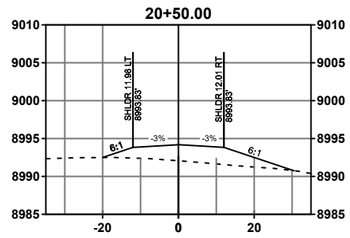

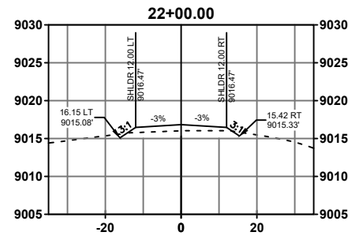

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CITY OF WOODLAND PARK

GLEN ASPEN DAM – ACCESS IMPROVEMENTS

PRIMARY ACCESS CROSS SECTIONS

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
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FINAL

Proj.#: W0309.25020
Date: DECEMBER 2025
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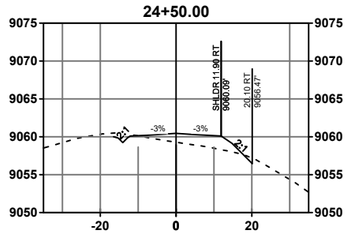
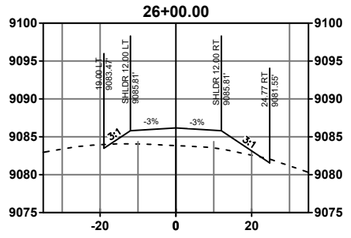
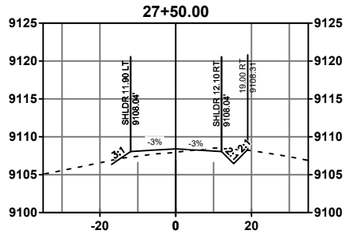
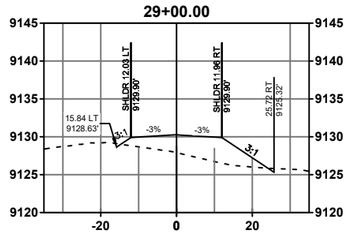
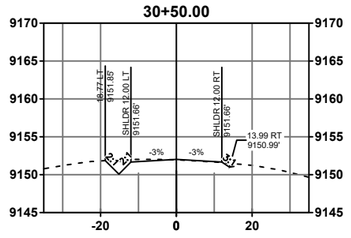
SHEET NUMBER
X2

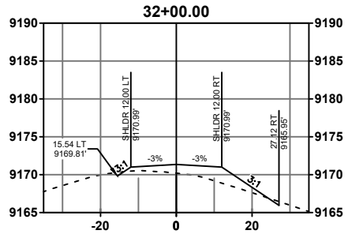


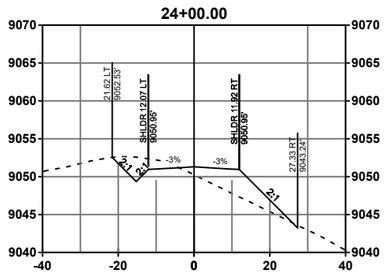


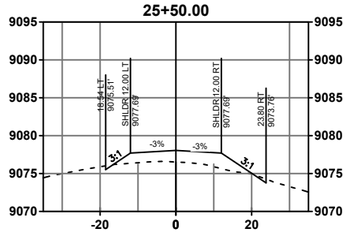


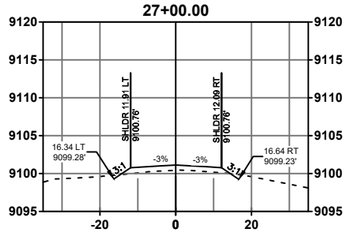


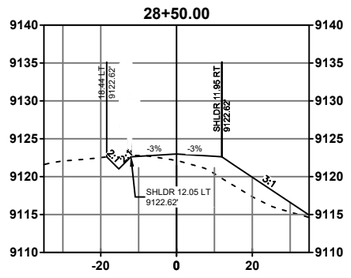


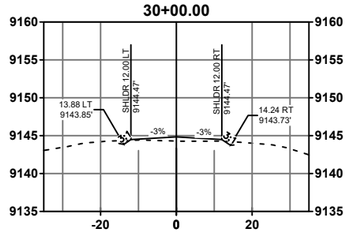


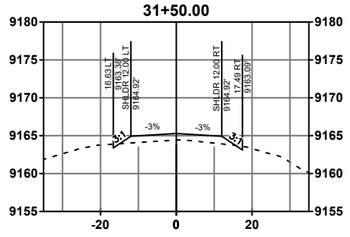


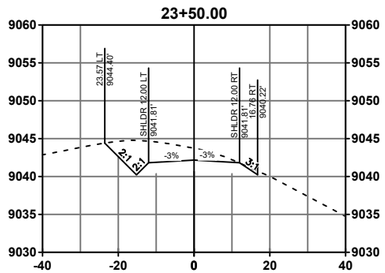


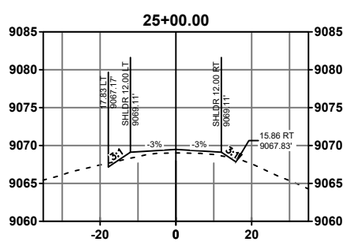


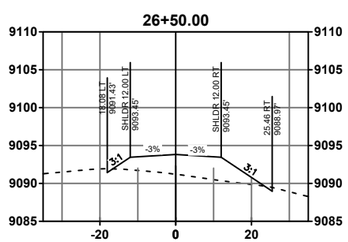


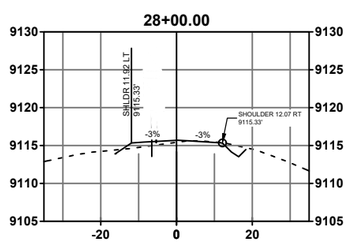


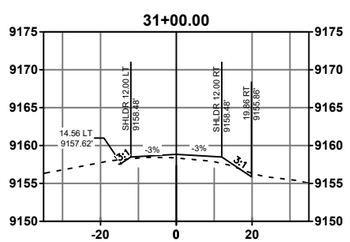












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GLEN ASPEN DAM – ACCESS IMPROVEMENTS

PRIMARY ACCESS CROSS SECTIONS

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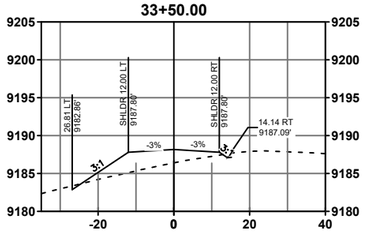
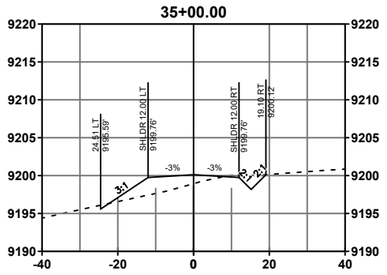
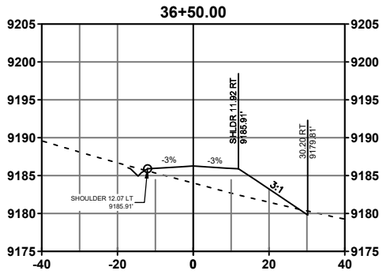
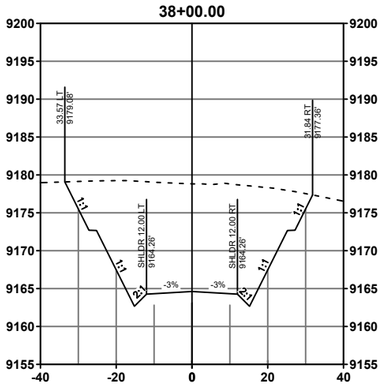
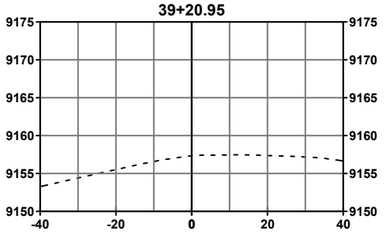
X3

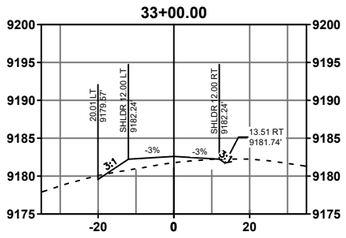


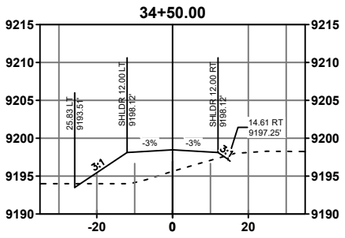


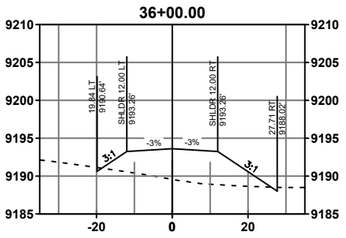


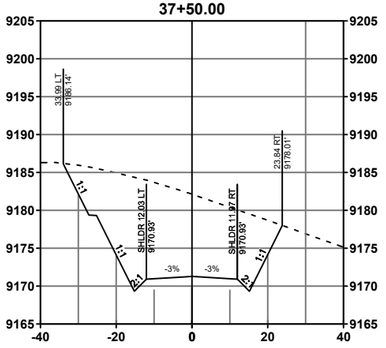


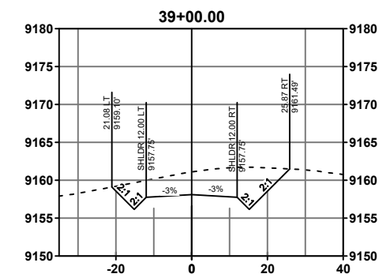


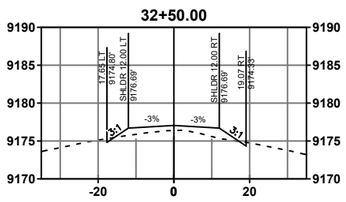


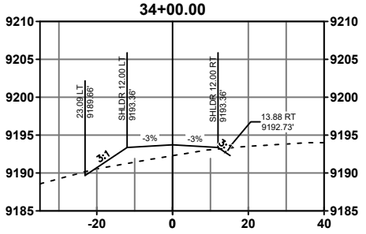


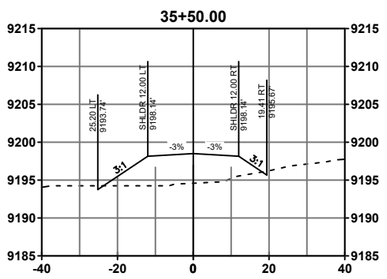


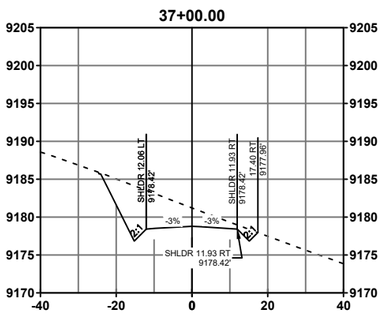


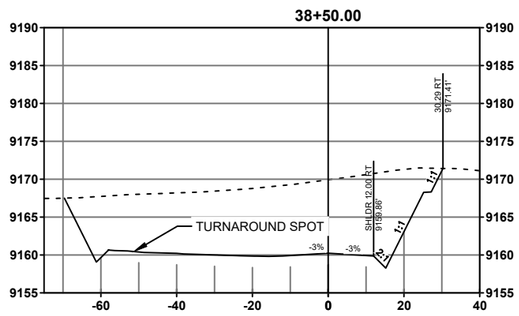












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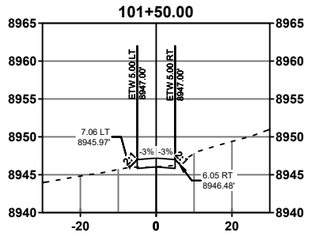
CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
PRIMARY ACCESS CROSS SECTIONS

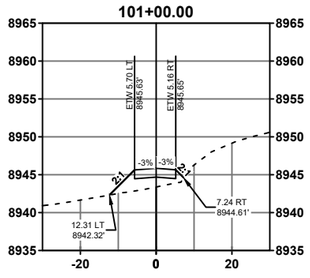
REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

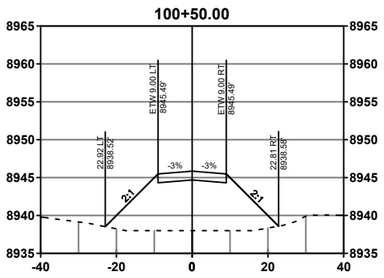
FINAL

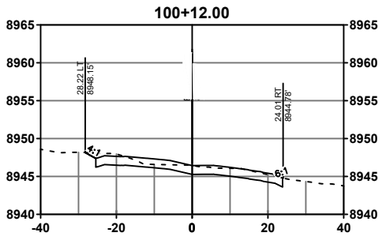
Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

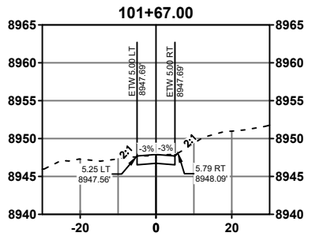
SHEET NUMBER
X4











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CITY OF WOODLAND PARK

GLEN ASPEN DAM – ACCESS IMPROVEMENTS

SECONDARY ACCESS CROSS SECTIONS

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
X5

LOY CREEK STREAM CROSSING
P-3
SHEET Q6
PRESCRIPTIVE ROW
LOY CREEK
SECONDARY ACCESS
SECTION #: 17 NE 1/4 OF THE NW 1/4
PARCEL #: 8200000060
SECTION #: 17 NW 1/4 OF THE NW 1/4
PARCEL #: 8200000060
PRESCRIPTIVE ROW
BEGIN PRIMARY ACCESS
STA. 10+12
LOY CREEK ROAD
(PUBLIC EPC COUNTY)
SECTION #: 17 NW 1/4 OF THE NW 1/4
PARCEL #: 8200000060
DRAINAGE CROSSING
EXISTING TRAIL
P-1
P-2
15+00
20+00
SHEET Q2
SHEET Q3
SHEET Q3
25+00
SECTION #: 17 SW 1/4 OF THE NW 1/4
PARCEL #: 8200000060
SECTION #: 18 SE 1/4 OF THE NE 1/4
PARCEL #: 3931.181000050
30+00
SHEET Q4
SHEET Q4
35+00
40+00
SHEET Q5
FOUND NATURAL SPRING
EL PASO COUNTY
TELLER COUNTY
COUNTY LINE SHOWN AT
APPROXIMATE LOCATION
SHEET Q2
TELLER COUNTY

0' 150' 300'
SCALE 11x17: 1" = 300'

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CITY OF WOODLAND PARK

GLEN ASPEN DAM – ACCESS IMPROVEMENTS

GECP KEYMAP

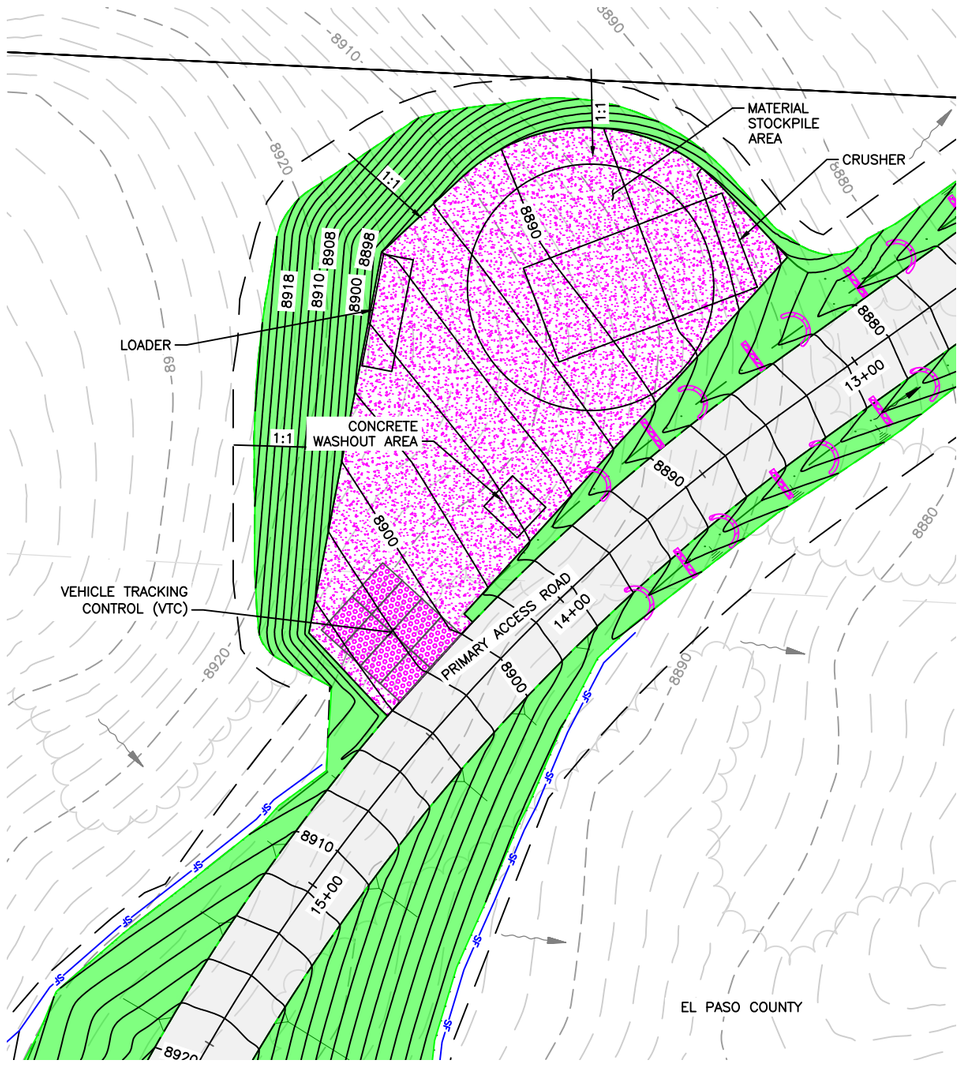
REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED
KEITH MATTHEW GARCIA
64503
12/19/2025
PROFESSIONAL ENGINEER

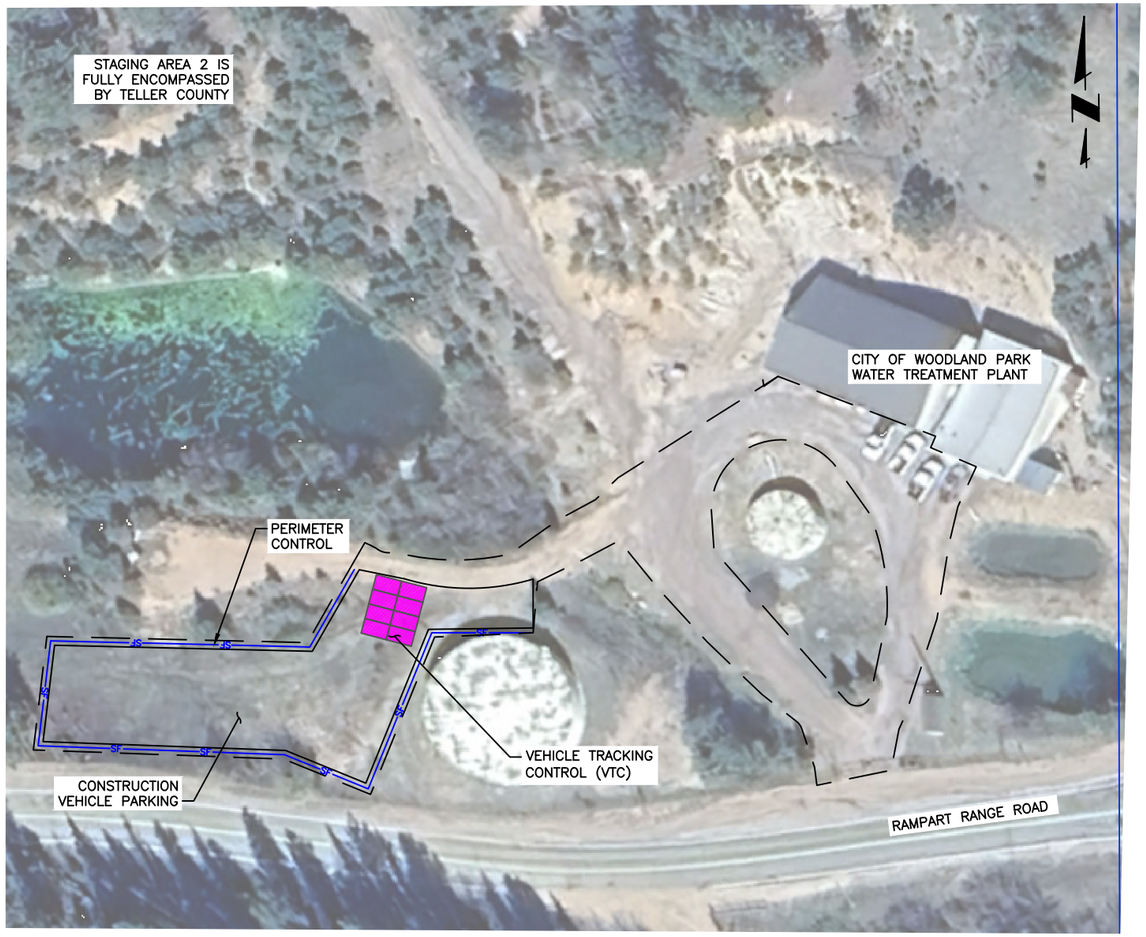
Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
Q1



A Q2 **STAGING AREA 1**

NOT TO SCALE



B Q2 **STAGING AREA 2**

NOT TO SCALE

IF BAR DOES NOT MEASURE ONE INCH, SCALE OF THIS DRAWING HAS BEEN ALTERED

1"

N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_ESCP_Plan_Plan.dwg

2026/03/13 5:13 PM By: Dominic Russo

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CITY OF WOODLAND PARK

GLEN ASPEN DAM – ACCESS IMPROVEMENTS

STAGING AREAS

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

FINAL

COLORADO LICENSED
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

SHEET NUMBER
Q2

IF BAR DOES NOT MEASURE ONE INCH, SCALE OF THIS DRAWING HAS BEEN ALTERED

1"

N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_ESCP_Plan_Plan.dwg

2026/03/13 5:13 PM By: Dominic Russo

10" STEEL WATERLINE PIPE APPROXIMATE LOCATION

LOY CREEK ROAD (PUBLIC EPC COUNTY)

EXISTING SOIL FILLED CULVERTS

STORM SEWER MANHOLE TO REMAIN

32' VEHICLE GATE, SEE SHEET D3

UTILITY POLE TO REMAIN

WELL TO REMAIN

WATER CAP TO REMAIN

ELECTRICAL BOX TO REMAIN

WATER CAP TO REMAIN

50 LF

LOY CREEK STREAM CROSSIN

UTILITY POLE TO REMAIN

CUT LIMITS, TYP.

TREE LINE

ROCK FLUME, SEE SHEET D1

P-2, 24" RCP

161 LF

MATCHLINE STA. 16+00

133 LF

PRESCRIPTIVE ROW

50'

24'

36" RCP

10+00

11+00

12+00

13+00

14+00

15+00

16+00

BEGIN PRIMARY ACCESS STA. 10+12

DE-WATERING TO TAKE PLACE DURING CONSTRUCTION SEE SHEET Q7

SECTION #:17 NW 1/4 OF THE NW 1/4 PARCEL #: 8200000060

SECTION #:08 SW 1/4 OF THE SW 1/4 PARCEL #: 8200000002

DITCH, TYP.

151 LF

WETLANDS

RIPRAP APRON, SEE DETAIL D1

VEHICLE TRACKING CONTROL (VTC), SEE SHEET Q8

PRESCRIPTIVE ROW

2.5" STEEL WATERLINE PIPE APPROXIMATE LOCATION

10" STEEL WATERLINE PIPE APPROXIMATE LOCATION

LIMITS OF CONSTRUCTION/ DISTURBANCE, TYP.

0' 25' 50'

SCALE 11x17: 1" = 50'

MATCHLINE STA. 16+00

17+00

18+00

19+00

20+00

21+00

22+00

23+00

MATCHLINE STA. 23+50

534 LF

287 LF

758 LF

FILL LIMITS, TYP.

LIMITS OF CONSTRUCTION/ DISTURBANCE

NATURAL SPRING

DITCH, TYP.

CUT LIMITS, TYP.

0' 25' 50'

SCALE 11x17: 1" = 50'

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CITY OF WOODLAND PARK

GLEN ASPEN DAM - ACCESS IMPROVEMENTS

PRIMARY ACCESS GECP STA. 10+00 TO STA. 23+50

REVISIONS

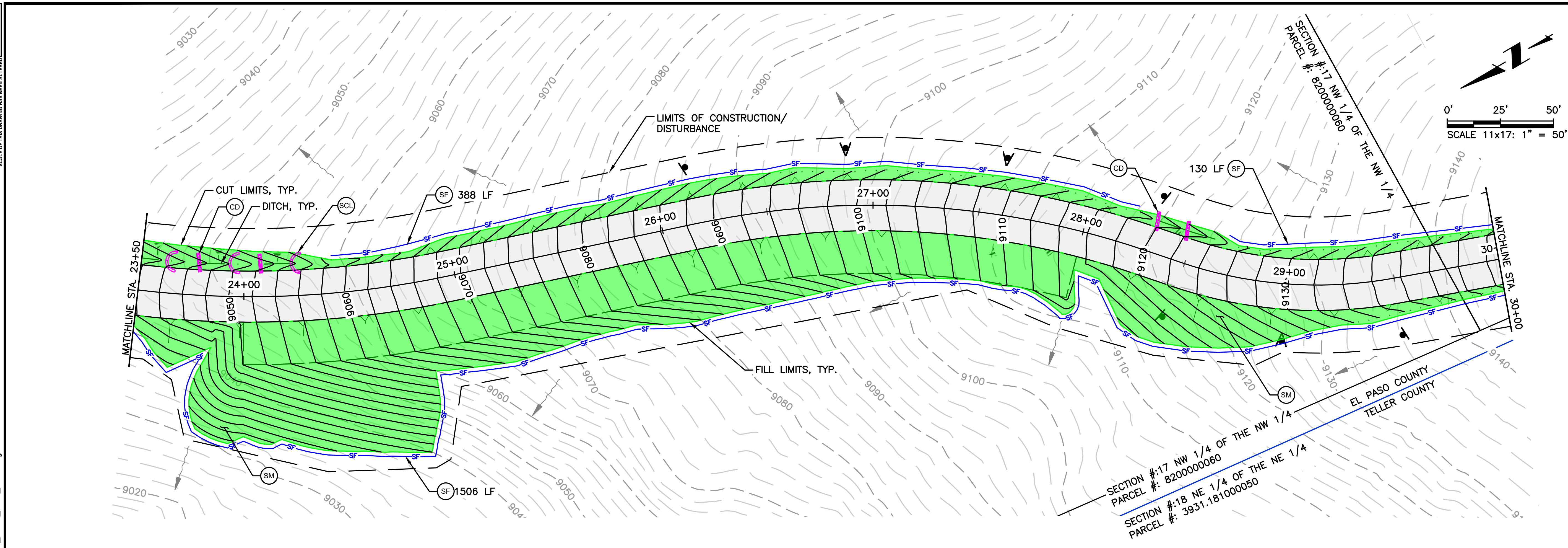
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2	BMP REVISION	DJR	KMG	MAR 2026
3				
4				
5				
6				
7				

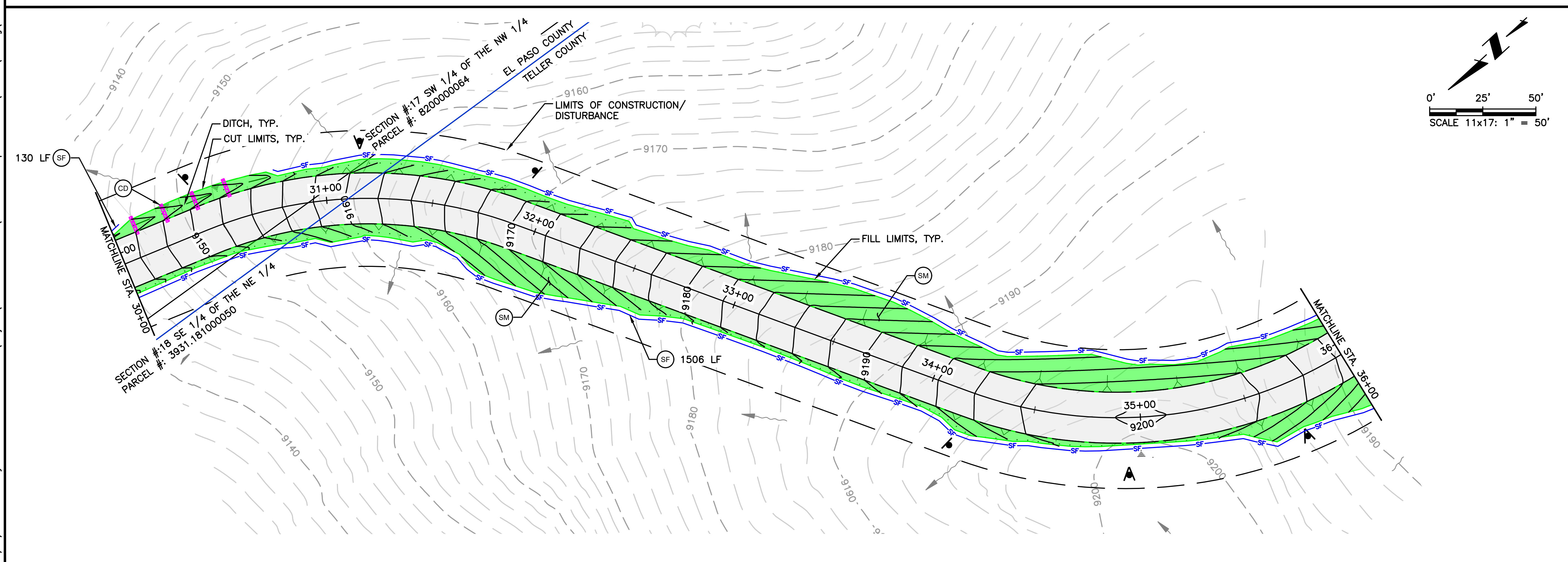
FINAL

COLORADO LICENSED
KEVIN MATTHEW GEBERT
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
Q3





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CITY OF WOODLAND PARK

GLEN ASPEN DAM – ACCESS IMPROVEMENTS

PRIMARY ACCESS GECP STA. 23+50 TO STA. 36+00

REVISIONS

NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
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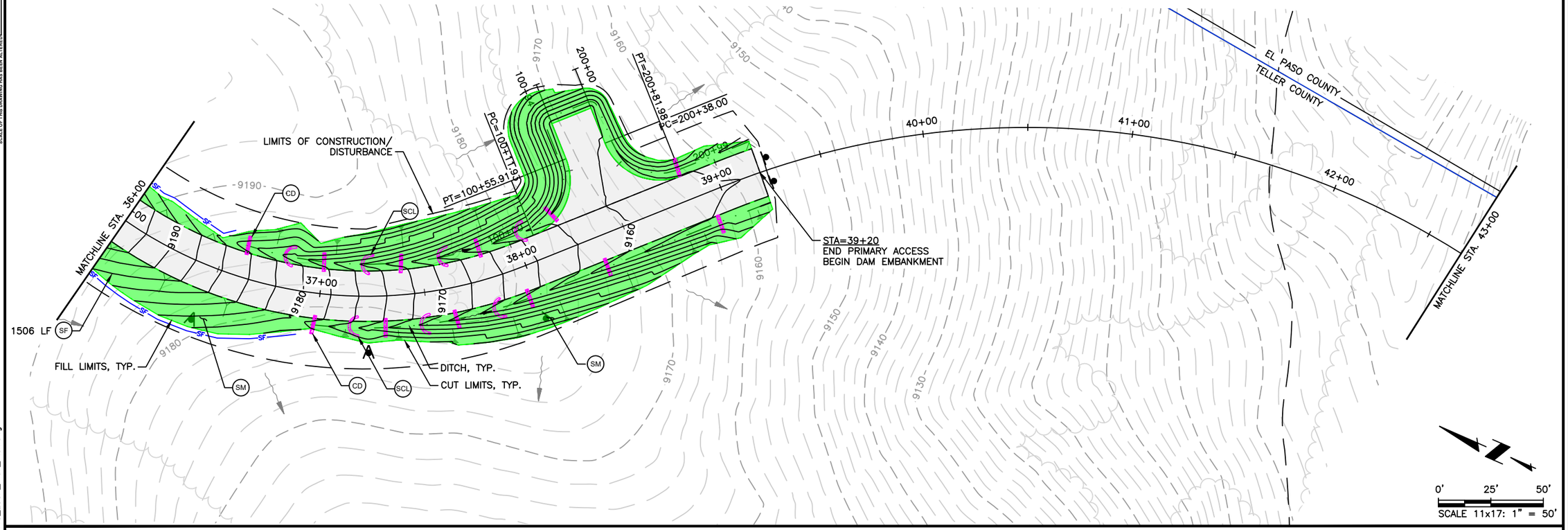
FINAL

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
Q4

2026/03/13 5:13 PM By: Dominic Russo N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_ESCP_Plan_Plan.dwg

IF BAR DOES NOT MEASURE ONE INCH SCALE OF THIS DRAWING HAS BEEN ALTERED
1"



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GLEN ASPEN DAM – ACCESS IMPROVEMENTS

PRIMARY ACCESS GECP STA. 36+00 TO STA. 43+00

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
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6				
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FINAL

COLORADO LICENSED
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

SHEET NUMBER
Q5

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GLEN ASPEN DAM – ACCESS IMPROVEMENTS

SECONDARY ACCESS GECP STA. 100+00 TO STA. 101+71

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
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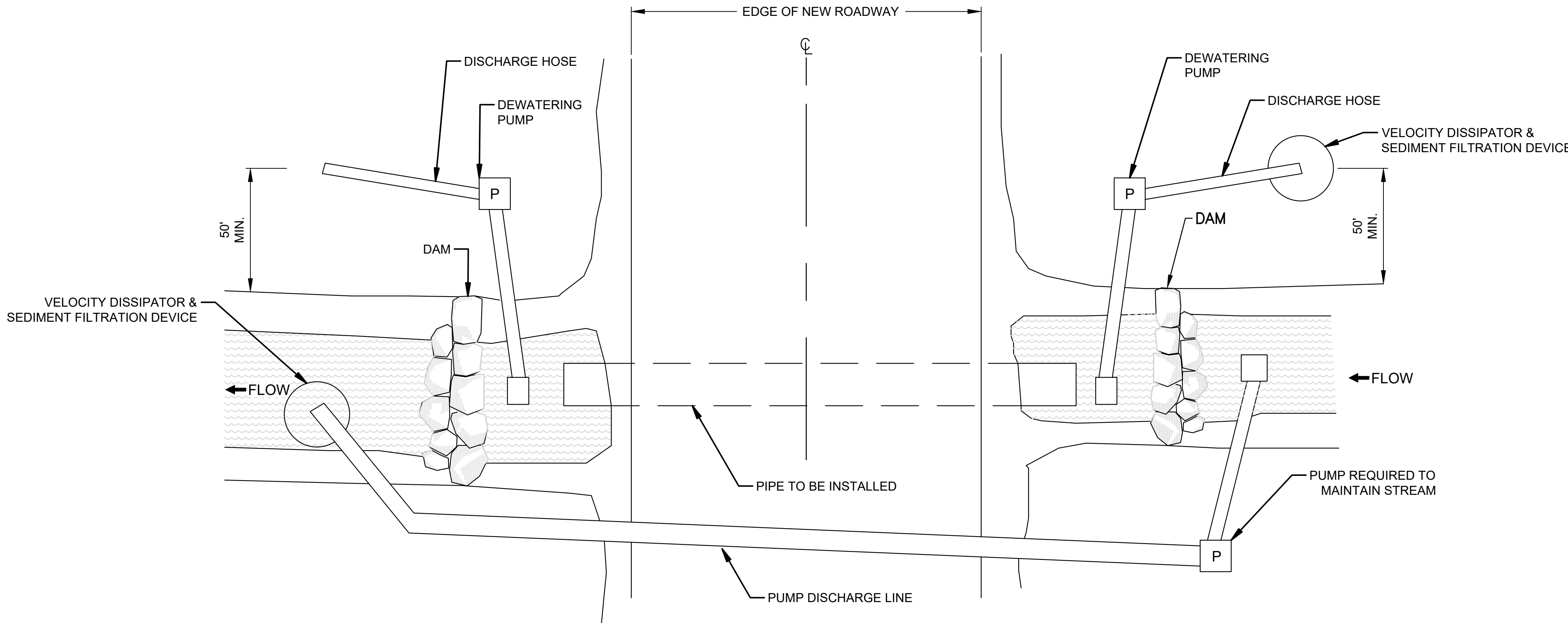
5				
6				
7				

FINAL

COLORADO LICENSED
KEVIN MATTHEW GRIGG
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#:	W0309.25020
Date:	DECEMBER 2025
Design:	KMG
Drawn:	KEG
Check:	DES

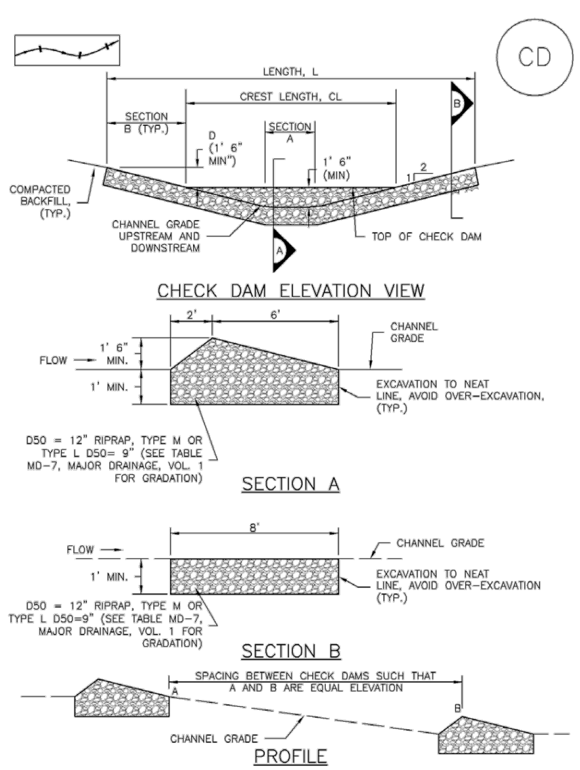
SHEET NUMBER
Q6



A / Q7 STREAM BYPASS PUMPING DETAIL

NOT TO SCALE

Check Dams (CD) **EC-12**



CD-1. CHECK DAM

EC-12 **Check Dams (CD)**

CHECK DAM INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - –LOCATION OF CHECK DAMS.
   - –CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
   - –LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).

2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.

3. RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").

4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.

5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.

CHECK DAM MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN ½ OF THE HEIGHT OF THE CREST.

5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

6. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

*CHECK DAM SLOPE SPACING	
SLOPE STEEPNES (%)	SPACING (FT)
1–4	64
5–8	30
9–13	21
14–17	15
17–20	13
20+	10

*EROSION CONTROL LOGS CAN BE USED AS SUBSITUTION FOR CHECK DAMS. SEE PLANS

B / Q7 CHECK DAM DETAIL

NOT TO SCALE

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CITY OF WOODLAND PARK

GLEN ASPEN DAM – ACCESS IMPROVEMENTS

GECP DETAILS

REVISIONS

NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

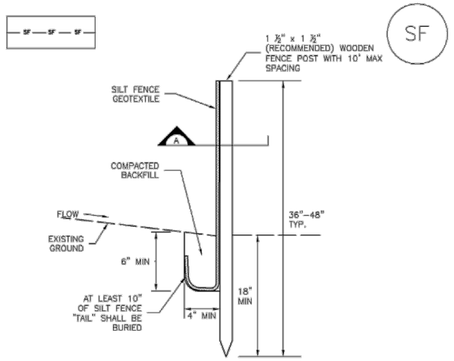
FINAL

COLORADO LICENSED PROFESSIONAL ENGINEER KEVIN MATTHEW GARCIA 64503 12/19/2025

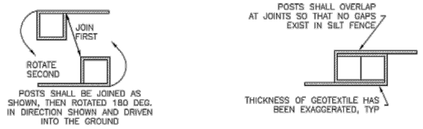
Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER Q7

Silt Fence (SF) SC-1



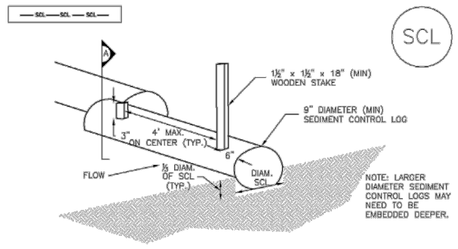
SILT FENCE



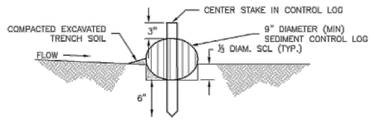
SECTION A

SF–1. SILT FENCE

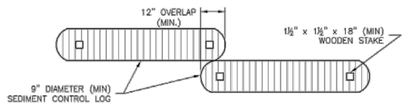
Sediment Control Log (SCL) SC-2



SEDIMENT CONTROL LOG



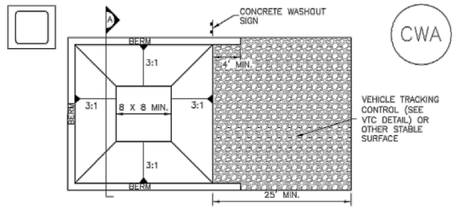
SECTION A



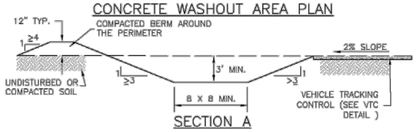
SEDIMENT CONTROL LOG JOINTS

SCL–1. SEDIMENT CONTROL LOG

Concrete Washout Area (CWA) MM-1



CONCRETE WASHOUT AREA PLAN



SECTION A

CWA–1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –CWA INSTALLATION LOCATION.

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.

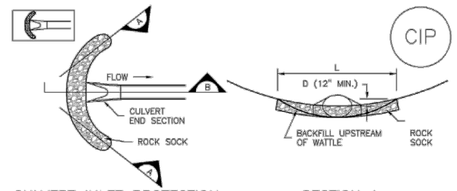
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

Inlet Protection (IP) SC-6



CULVERT INLET PROTECTION PLAN

SECTION A

SECTION B

CIP–1. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   –LOCATION OF CULVERT INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

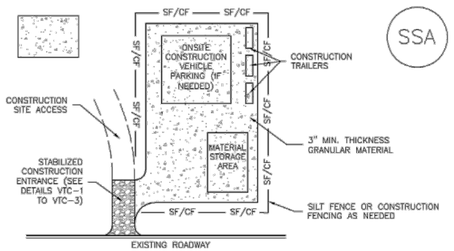
4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS ½ THE HEIGHT OF THE ROCK SOCK.

5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM AURORA, COLORADO. NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Stabilized Staging Area (SSA) SM-6



SSA–1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   –LOCATION OF STAGING AREA(S).
   –CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.

4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

MM-2 Stockpile Management (SM)

MATERIALS STAGING IN ROADWAY MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. INSPECT PVC PIPE ALONG CURB LINE FOR CLOGGING AND DEBRIS. REMOVE OBSTRUCTIONS PROMPTLY.

5. CLEAN MATERIAL FROM PAVED SURFACES BY SWEEPING OR VACUUMING.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

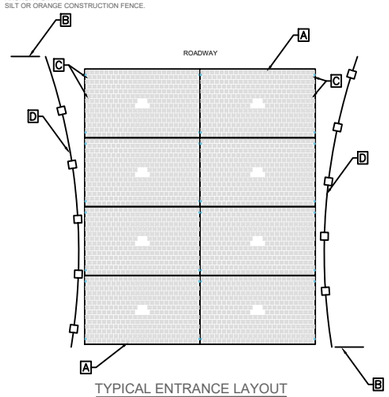
(DETAILS ADAPTED FROM AURORA, COLORADO)

FODS TRACKOUT CONTROL SYSTEM INSTALLATION

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO EFFECTIVELY REMOVE MOST SEDIMENT FROM VEHICLE TIRES AS THEY EXIT A DISTURBED LAND AREA ONTO A PAVED STREET. THIS MANUAL IS A PLATFORM FROM WHICH TO INSTALL A FODS TRACKOUT CONTROL SYSTEM. (NOTE: THIS IS NOT A ONE SIZE FITS ALL GUIDE.) THE INSTALLATION MAY NEED TO BE MODIFIED TO MEET THE EXISTING CONDITIONS, EXPECTATIONS, OR DEMANDS OF A PARTICULAR SITE. THIS IS A GUIDELINE. ULTIMATELY THE FODS TRACKOUT CONTROL SYSTEM SHOULD BE INSTALLED SAFELY WITH PROPER ANCHORING AND SIGNS PLACED AT THE ENTRANCE AND EXIT TO CAUTION USERS AND OTHERS.

KEY NOTES:

A. FODS TRACKOUT CONTROL SYSTEM MAT.
B. FODS SAFETY SIGN.
C. ANCHOR POINT.
D. SILT OR ORANGE CONSTRUCTION FENCE.



TYPICAL ENTRANCE LAYOUT

INSTALLATION:
1. THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED SHOULD CORRESPOND TO BEST MANAGEMENT PRACTICES AS MUCH AS POSSIBLE. THE SITE WHERE FODS TRACKOUT CONTROL SYSTEM IS PLACED SHOULD ALSO MEET OR EXCEED THE LOCAL JURISDICTION OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
2. CALL FOR UTILITY LOCATES 3 BUSINESS DAYS IN ADVANCE OF THE OF FODS TRACKOUT CONTROL SYSTEM INSTALLATION FOR THE MARKING OF UNDERGROUND UTILITIES. CALL THE UTILITY NOTIFICATION CENTER AT 811.
3. ONCE THE SITE IS ESTABLISHED WHERE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS, OR SUDDEN ABRUPT CHANGES IN ELEVATION.
4. THE INDIVIDUAL MATS CAN START TO BE PLACED INTO POSITION. THE FIRST MAT SHOULD BE PLACED NEXT TO THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE VEHICLE WILL EXIT STRAIGHT FROM THE SITE ONTO THE PAVED SURFACE.
8. AFTER THE FIRST MAT IS PLACED DOWN IN THE PROPER LOCATION, MATS SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN ITS CURRENT POSITION.
9. AFTER THE FIRST MAT IS ANCHORED IN ITS PROPER PLACE, AN H BRACKET SHOULD BE PLACED AT THE END OF THE FIRST MAT BEFORE ANOTHER MAT IS PLACED ADJACENT TO THE FIRST MAT.
10. ONCE THE SECOND MAT IS PLACED ADJACENT TO THE FIRST MAT, MAKE SURE THE H BRACKET IS CORRECTLY SITUATED BETWEEN THE TWO MATS, AND SLIDE MATS TOGETHER.
11. NEXT THE CONNECTOR STRAPS SHOULD BE INSTALLED TO CONNECT THE TWO MATS TOGETHER.
12. UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM, THAT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POINT TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS.
13. SUCCESSIVE MATS CAN THEN BE PLACED TO CREATE THE FODS TRACKOUT CONTROL SYSTEM REPEATING THE ABOVE STEPS.

USE AND MAINTENANCE
1. VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE MATS.
2. DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL MAKE A SHALLOW S-TURN ROUTE DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM.
3. MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN THE PYRAMIDS BECOME FULL OF SEDIMENT. TYPICALLY THIS WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT. BRUSHING IS THE PREFERRED METHOD OF CLEANING, EITHER MANUALLY OR MECHANICALLY.
4. THE USE OF ICE MELT, ROCK SALT, SNOW MELT, DE-ICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING THE WINTER MONTHS AND AFTER A SNOW EVENT TO PREVENT ICE BUILDUP.

REMOVAL
1. REMOVAL OF FODS TRACKOUT CONTROL SYSTEM IS REVERSE ORDER OF INSTALLATION.
2. STARTING WITH THE LAST MAT, THE MAT THAT IS PLACED AT THE INNERMOST POINT OF THE SITE OR THE MAT FURTHEST FROM THE EXIT OR PAVED SURFACE SHOULD BE REMOVED FIRST.
3. THE ANCHORS SHOULD BE REMOVED.
4. THE CONNECTOR STRAPS SHOULD BE UNBOLTED AT ALL LOCATIONS IN THE FODS TRACKOUT CONTROL SYSTEM.
5. STARTING WITH THE LAST MAT IN THE SYSTEM, EACH SUCCESSIVE MAT SHOULD THEN BE MOVED AND STACKED FOR LOADING BY FORKLIFT OR EXCAVATOR ONTO A TRUCK FOR REMOVAL FROM THE SITE.

EC-2 Temporary and Permanent Seeding (TS/PS)

NOTES:

1. SEE SWMP FOR SEEDING MIX AND APPLICATION RATES.

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CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
GECP DETAILS

NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
3				
4				
5				
6				
7				

REVISIONS

FINAL

COLORADO LICENSED
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
Q8

IF BAR DOES NOT MEASURE ONE INCH, SCALE OF THIS DRAWING HAS BEEN ALTERED
1"

2026/03/13 5:14 PM By: Dominic Russo N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_ESCP_Details.dwg

STORMWATER MANAGEMENT PLAN (SWMP) TEMPLATE 1 ACRE OR MORE ACRES OF DISTURBANCE (6/20/2024)

`The Contractor shall comply with all CDOT contractual requirements, and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

A. Project Site Location:
Location or address of construction office:
El Paso County and Teller County: 39.008293, -105.025256

Owner	Contact Name	Contact (Phone & Email)
Utilities Director	KIP WILEY	719-687-5212, kwiley@woodlandpark.gov

Operator/Contractor	Contact Name	Contact (Phone & Email)
TBD	TBD	TBD

B. Project Site Description:
The project site is located in the Pike National Forest region near Woodland Park, Colorado, with access via Loy Creek Road in El Paso County and extending partially into Teller County. Rampart Range Road borders the area to the northwest. The project spans across a few sections. Township 12 South, Range 68, 6th principal meridian, El Paso County section 08 SW ¼, section 17 NW ¼, section 18 SW ¼, and Teller County section 18 NE1/4, section 18 NW ¼, and section 18 SE ¼.

Located southeast of the Primary Access Road is the Glen Aspen Ranch, a Boy Scout camp.

C. Proposed Schedule for Sequence for Major Construction Activities:
Stabilize all areas that are not paved or landscaped through establishment of vegetation cover.

Initial CMs will be installed before breaking ground. Clearing and grubbing will occur along roadway alignment while minimizing disturbances within the Limits of Construction/Disturbance. Interim CMs will be installed during grading and road work. On site runoff will be conveyed via roadside ditch. All roadside ditches will be vegetated with deep-rooted grasses and protected with a turf-reinforcement mat capable of withstanding high-velocity flows. All slopes will be stabilized with accepted seed mix where indicated in the ESC plans. PBSI Native Mountain Wetland Mix will be seeded where wetlands are delineated, a combination of PBSI Native Mountain Mix and PBSI Dry Native Mountain will be seeded in places of high velocity water flows, such as ditches, and PBSI Dry Native Mountain Mix will be seeded on steep slopes.

D. Acres of Disturbance:
1. Total area of construction site (LOC (PERMITTED AREA)): 5.4 acres
2. Total area of proposed disturbance (LDA): 5.4 acres
3. Total area of seeding: 2.3 acres
4. Total area of pre-project impervious surface: 0 sq. ft
5. Total area of final impervious surface: 71,145 sq.ft.

E. Existing Soil Data:
A geotechnical investigation that consisted of three boreholes showing the soil conditions to have a 6-inch organic layer on average, followed by denser sands and gravels with some clays near the surface in one of the boreholes. Based on geotechnical bore logs and NRCS Web Soil Survey, the Hydraulic Soil Group (HSG) B was selected for the site soil conditions. This indicates a moderate runoff potential – "soils having moderate infiltration rates when thoroughly wetted and consist of chiefly of moderately deep to deep, moderately well to well drained soils with moderately fine to moderately course textures." (El Paso DCM 1). The site soils exhibit moderate erodibility overall. The upper organic layer is susceptible to erosion when disturbed, while the underlying sands and gravels have low cohesion and can erode under concentrated flows. Geotechnical report explains that it's generally recommended that embankment slopes be armored and/or well vegetated. The NRCS Web Soil Survey results are found in Appendix A of the drainage report. Table 6-8 of the Drainage Criteria manual assigns HSG B to areas within Pike National Forest that are predominantly comprised of the Sphinx soil component.
Data Source(s): Geotech Report and https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm

F. Existing Vegetation, Including Percent of Vegetative Cover:
During design, the SWMP Administrator for Design consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the CDPS-SCP.

Pre-Construction Date of survey:9/22/2025 Percent Existing Vegetative Cover: 100%
Description of existing vegetation: Low areas along the drainages are shrub-wetlands, predominately a willow species. The surrounding uplands are conifer forest with a thin grass/forb understory and a few small openings. Ground cover is mostly forest litter with some downed wood.
Method for determining percent vegetative cover: site visit

Post-Construction Date of survey: ____________ Percent Vegetative Cover: ____________
Description of vegetation:

G. Potential Pollutants Sources:
Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

H. Drainage Patterns and Receiving Water(s):
1. Description of drainage patterns from the Site:
Stormwater drains northeast toward the Loy Creek wetland. Runoff from existing subbasins sheets down the mountainside, then concentrates in gullies and continues to Loy Creek. A culvert is included at the location where the roadway crosses a sub-basin to ensure runoff remains on its existing drainage path. This occurs once, where a 24" concrete culvert (P-2) has been added, as shown on the plans. As this road follows the top of the ridge, most of the runoff will sheet flow down the fill slopes and down the side of mountain matching existing conditions. Within cut areas and areas where ditching is proposed, the water runoff from roadway surface will follow the ditch until the ditch daylights which allows the water to flow down the mountain, or until it reaches the bottom of the alignment near the wetlands.
2. Names of immediate and ultimate receiving water(s) on site:
Loy Creek
3. Description of all stream crossings located within the Limits of Construction:
Loy Creek is within the limits of construction, crossing at the primary access entrance.

I. Allowable Non-Stormwater Discharges:

Stream Bypass pumping detail is provided on page 3.

Discharge Description	Site Map #	Method Statement (Location)
Temporary Stream Bypass via pump	3	Road Crossing at Loy Creek
Concrete Washout	18	Staging Area 1

J. Diversion Criteria:
1. Is a diversion planned for the Site? Yes__x___ No __ ____.
2. If yes, complete information below:
   a. What is the 2-year peak flow for the waterway being diverted (cubic feet per second)? 0.96 CFS
   b. What are the monthly averages if available? N/A
   c. What is the upstream contributing drainage area and imperviousness? 84.3 acres, 1.6%
   d. A method statement must be prepared by the Contractor and approved by CDOT for each diversion. Diversion structures must minimize soil transport and erosion within the entire diversion, minimize erosion during discharge, and minimize run-on into the diversion and meet the conditions in the SCP. TBD by contractor

1. Site Map Components:

A. Project Construction Potential Site Boundaries:
See SWMP Site Maps

B. Flow Arrows that Depict Stormwater Flow Directions On-Site, Run-On and Runoff Direction:
See SWMP Site Maps

C. All Areas of Ground Surface Disturbance:
See SWMP Site Maps

D. Areas of Cut and Fill:
See SWMP Site Maps

Template Revised: 6.20.2024

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CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
SWMP NARRATIVE

REVISIONS

NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
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4				
5				
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7				

FINAL

COLORADO LICENSED PROFESSIONAL ENGINEER KEVIN MATTHEW GARCIA 64503 12/19/2025

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KMG
Check: DES

SHEET NUMBER
Q9

IF BAR DOES NOT MEASURE ONE INCH SCALE OF THIS DRAWING HAS BEEN ALTERED 1"

E. Areas Used for Storing and Stockpiling of Materials, Staging Areas (field trailer, fueling, etc.) and Locations of All Waste Storage and Batch Plants Including Masonry Mixing Stations:
See SWMP Site Maps

F. Location of All Structural Control Measures Identified in the SWMP:
See SWMP Site Maps

G. Location of Non-Structural Control Measures as Applicable in the SWMP:
See SWMP Site Maps

H. Springs, Streams, Wetlands, Diversions, And Other State Waters Within or Bordering The Site, Including Areas That Require Pre-Existing Vegetation Be Maintained Within 50 Feet Of A Receiving Water:
See SWMP Site Maps, Q2 and Q3

I. Locations of All Stream Crossing Located Within the Limits of Construction:
See Plans

J. Protection of Trees, Shrubs, Sensitive Habitat, and Cultural Resources:
NA

K. Locations of Pumped Stormwater Including Intake and Discharge Points and Locations of Dewatering Activities
See detail on page Q7.

2. Qualified Stormwater Managers:

A. SWMP Administrator for Design:
CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information [phone & email]	Certification #
Jake Hoeffner	254-495-0595	532FF02F

B. SWMP Administrator for Construction: (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining, and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of current TECS Certification must be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Certification Expiration Date	Start Date
Jake Hoeffner	254-495-0595	532FF02F		

Template Revised: 6.20.2024

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CITY OF WOODLAND PARK
GLEN ASPEN DAM – ACCESS IMPROVEMENTS
SWMP NARRATIVE

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1	EPC COMMENTS	DJR	KMG	FEB 2026
2				
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7				

FINAL

COLORADO LICENSED
KEVIN MATTHEW GRABELL
64503
12/19/2025
PROFESSIONAL ENGINEER

Proj.#: W0309.25020
Date: DECEMBER 2025
Design: KMG
Drawn: KEG
Check: DES

SHEET NUMBER
Q10

C. Erosion Control Inspector: (As defined in Section 208) The Contractor shall designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03(c) (Copy of current TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Certification Expiration Date	Start Date
To be filled by Contractor				

D. Permanent Stabilization Subject Matter Expert: This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.
[See the Construction Phase Inspection and Verification Checklist on the Landscape Architecture website for regional contacts to address revegetation questions:
https://www.codot.gov/programs/environmental/landscape-architecture/assets/inspection-and-verification-checklist-for-roadside-revegetation.pdf]

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.
5. Attend the Partial Landscape Completion Walkthrough.
6. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information [phone & email]
Pawnee Buttes Seed Inc	paul@pawneebuttesseed.com

3. Stormwater Management Controls for Initial Construction Activities Associated with Water Quality

The Contractor Shall Perform the Following:

A. Potential Pollutant Sources:
Evaluate, identify, locate, and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP, and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

B. Offsite Drainage (Run on Water):
Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

C. Vehicle Tracking Control:
Control measures shall be implemented in accordance with subsection 208.04.

D. Perimeter Control:
1. Temporary control measures shall be installed prior to commencing construction activities associated with water quality in accordance with subsection 208.04.
2. Perimeter control may consist of berms, silt fence, erosion logs (sediment control logs), existing landforms, or other control measures as approved.

4. During Construction

Responsibilities of the SWMP Administrator for Construction: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, the SWMP Administrator for Construction shall have full responsibility to maintain and update the SWMP in accordance with subsection 208.03(c).

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

A. Materials Handling and Spill Prevention and Response Plan: Prior to commencing Construction Activities Associated with Water Quality, the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.

B. Other CDPS Permits or Guidance Documents: List applicable CDPS permits or guidance documents associated with the permitted site and activities.

C. Stockpile Management: Shall be done in accordance with subsections 107.25 and 208.07.

D. Concrete Washout: Concrete and masonry washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

E. Saw Cutting: Shall be done in accordance with subsections 107.25, 208.02, 208.04, 208.05.

F. Street Sweeping: Shall be done in accordance with subsection 208.04.

5. Inspections

A. Form 1176 Inspections shall be in accordance with subsection 208.03(c).
B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

6. Control Measure Maintenance

At any time, regardless of the inspection schedule, CDOT or the Contractor shall identify control measures requiring corrective action. Identified noncompliance shall be corrected immediately, but no later than 2 calendar days from the time of observation. Corrective actions shall be in accordance with subsection 208.04(f).

7. Record Keeping

Records shall be kept in accordance with subsection 208.03(d).

8. Temporary, Permanent Stabilization and Long-Term Stormwater Management

The Contractor shall comply with all temporary stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

A. Seeding Plan:
The following seed mix(es) and rates are for hydraulic seeding method as shown on the Permanent Stabilization Site Maps shall be used:

SEED MIX	COMMON NAME	% Mix	LBS PER ACRE	TOTAL LBS
PBSI Native Mountain Wetland Mix	Fowl Blue Grass	14	20LBS/Acre	2
	Canada Wildrye	14		
	Ticklegrass	14		
	Tufted Hairgrass	12		
	Nebraska Sedge	8		
	Fowl Mannagrass	5		
	Sawbeak Sedge	5		
	Creeping Spikerush	5		
	Beaked Sedge	5		
	Small Fruited Bulrush	5		
	Baltic Rush	4		
	Olney Three-square Bulrush	4		
	Porcupine Sedge	3		
	Meadow Sedge	1		
	Aquatic Sedge	0.5		
	Dagger Leaf Sedge	0.5		

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PBSI Native Mountain Mix	Mountain Brome	25	50LBS/Acre	15
	Slender Wheatgrass	20		
	Sandberg Bluegrass	10		
	RM Fescue	10		
	Blue Wildrye	10		
	Streambank Wheatgrass	15		
	Tufted Hairgrass	2.5		
	Alpine Bluegrass	2.5		
	Idaho Fescue	0.5		
PBSI Dry Native Mountain	Sandberg Bluegrass	10	50 LBS/Acre	115
	Mountain Brome	20		
	Slender Wheatgrass	15		
	Bluebunch Wheatgrass	10		
	RM Fescue	10		
	Thickspike Wheatgrass	15		
	Bottlebrush Squirreltail	2.5		
	Streambank Wheatgrass	15		
	Alpine Bluegrass	2.5		
	Total			**132**

B. Seeding Application Method:
The following seeding methods shall be used for all areas shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

Pay Item	Seeding Method (subsection 212.05)	Acre
212-00022	Seeding (Riparian)	0.3
212-00707	Seeding (Native) Hydraulic	2
212-00710	Seeding (Wetland) Hydraulic	0.1
	Total	2.4

C. Soil Stabilization Methods:
Minimum soil stabilization methods for all disturbances to receive seeding.
1. Apply appropriate seed mix on designated areas. See 8A. Seeding Plan for application rates. For general steep slopes it's recommended to use the PBSI Dry Native Mountain Mix, for Areas of high velocity swale areas, it's recommended to hand broadcast and rake in the seeds while using a combination of PBSI Dry Native Mountain Mix and PBSI Native Mountain mix with a 50/50 ratio at 100LB/AC, and use PBSI Native Mountain Wetland mix for wetlands. Turf Reinforcement Mat will be placed after seeding.
   Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213.
4. Install Turf Reinforcement Mat in all ditches and slopes.

D. Special Requirements:
1. Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete temporary stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
2. Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
3. The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

E. Soil Amendment Requirements: Minimum amendment material requirements for all disturbances to receive seeding.
N/A

F. Permanent Stabilization Application Under Structures:
Under structures, shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.

G. Reseeding Operations/Corrective Stabilization:
Prior to stormwater construction work partial acceptance.
1. All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
2. The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas, at no additional cost to the project.

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H. Location and Description of Planned Permanent Control Measures:
Is Permanent Water Quality Required. No
PCM exemption because the land is zoned as agricultural and falls under EPC exclusion IO.7.1.B.5 with land greater than or equal to 2.5 acres in size and with an impervious area less than 10 percent.

9. Prior to Project Final Acceptance

A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.

B. At the end of the project, all ditch checks shall consist of either temporary erosion logs (sediment control logs) (or equivalent) or permanent riprap.

C. If required, include work in 202-04002 Clean Culvert.

D. Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

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2026/03/13 5:14 PM By: Dominic Russo N:\Projects\109 Woodland Park\109.18 Glen Aspen Reservoir\06 CAD\Working\109.18_SWMP.dwg

10. Narratives

Control Measure Matrixes During Construction:

1. Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer, the SWMP Administrator for Construction shall: Place an "X" in the column "M-208 Standard or 'X' for Non-Standard" and complete a Non-Standard Control Measure Specification and Narrative. The Narrative shall include drawings, dimensions, installation information, materials, implementation processes, control measure-specific inspection expectations, and maintenance requirements of the control measure. The appropriate "X" shall also be added to the implementation phase(s).
2. The SWMP Administrator for Construction shall place an "X" in the column "In Use On Site" when the control measure has been installed.
3. A "B" in the "Initial Activities" column indicates that the control measure shall be installed **before** construction activities associated with water quality commence. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

Structural Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

Application, Control measure	Narrative	M- 208 Standard or "X" For Non-Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Protection of Existing Wetlands *Fence (plastic) and erosion logs (sediment control logs)*	Fence (plastic) shall be placed in combination with erosion logs (sediment control logs) to prevent encroachment of construction traffic and sediment into state waters prior to start of construction activities associated with water quality. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs (sediment control logs) shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.			**B**	**X**	
Check Dam/Ditch Check/Erosion Control Logs *Erosion log (sediment control log), silt berm, silt dike, rock check dam*	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction activities associated with water quality.	M-208			**X**	**X**
Culvert Inlet/Outlet Protection *Erosion logs (sediment control logs), aggregate bags*	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction activities associated with water quality.	M-208		**B**	**X**	**X**
Stockpile Protection *Temporary berm, erosion logs (sediment control logs), aggregate bags**	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the workday. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208			**X**	
Perimeter Control *Erosion logs (sediment control logs), silt fence, temporary berms*	Placed prior to construction activities associated with water quality commencing to address potential run-on water from off site, and to divert around disturbed area.	M-208		**B**	**X**	
Slope Control *Silt fence*	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction activities associated with water quality.	M-208		**X**	**X**	

Application, Control measure	Narrative	M- 208 Standard or "X" For Non-Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Outlet Protection *Riprap, or approved other*	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12			**X**	**X**
Pre-fabricated Vehicle Tracking Pad	Vehicle tracking pads shall be used at all vehicle and equipment exit points from the site to prevent sediment exiting the LOC. Place prior to the start of construction activities associated with water quality.	X		**B or X**	**X**	
Dewatering *(Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)*	Shall be done in such a manner to prevent potential pollutants from entering State waters.			**X**	**X**	
Clean Water Diversion	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.			**X**	**X**	
Other						

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Non-Structural Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:
Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

Application, Control measure	Narrative	M- 208 Standard Or "X" for Non-Standard	In Use on Site	Initial Activities	Interim Activities	Permanent Stabilization
Topsoil Management Stockpile/Salvage Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208		X	X	X
Surface Roughening / Grading Techniques	Daily stabilization of disturbance and to minimize wind erosion.				X	
Bonded Fiber Matrix or Mulching (Hydraulic)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Temporary or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.				X	
Straw or Hay Mulch/Mulch Tackifier	Temporary or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Temporary Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer				X	X
Spray-On Mulch Blanket (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Temporary or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer				X	X
Seeding Permanent (Native Perennial)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					X
Turf Reinforcement Mat	Temporary or Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	X			X	X
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from leaving the LOC. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
Other						

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11. Tabulation of Stormwater Quantities

A. It is estimated that [30] hours of blading (140-250 horsepower), dozing (130-250 horsepower) and/or combination loader (80-125 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Combination Loader.

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const	Interim Const.	Permanent Stabilization	*Total Quantity
	203-01594	Combination Loader	Hour	X	X		30
X	208-00020	Silt Fence	LF	X	X		4,860
X	208-00023	Erosion Log Type 3 (12 in)	LF		X	X	551
X	208-00041	Rock Check Dams	EA		X	X	59
	208-00045	Concrete Washout	EA		X		1
	208-00075	Pre-fabricated Vehicle Tracking Pad	EA	X	X		24
	208-00107	Removal of Trash	Hour		X		20
	208-00207	Erosion Control Management (ECM)	Day				60
X	211-03005	Dewatering	LS				1
	212-00022	Seeding (Riparian)	AC			X	0.4
	212-00710	Seeding (Wetland) Hydraulic	AC			X	0.1
	212-00707	Seeding (Native) Hydraulic	AC			X	1.9
	216-00302	Turf Reinforcement Mat (Class 2)	SY		X	X	10,239
	420-00132	Geotextile (Separator) (Class 1)	SY		X	X	85
	506-00206	Riprap (6 IN)	CY			X	22
	506-00218	Riprap (18 IN)	CY			X	10
	506-00226	Riprap (24 IN)	CY			X	86

*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.
**Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.

12. Biological Impacts and Dewatering

A. Environmental Impacts:
1. Wetland Impacts: Yes
2. Stream Impacts: Yes

B. Dewatering:
(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):
https://drive.google.com/open?id=17ck1ZJojHSacJ_wxp2FfUr4rAxNgVWZv
1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

13. Notes

[Use of this section may include, but is not limited to, documenting assumptions made in cost estimating]

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