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WINSOME FILING NO. 3 CONSTRUCTION DOCUMENTS

A PORTION OF THE SOUTHEAST QUARTER OF SECTION 13, AND A PORTION SECTION 24,
TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6TH PM, COUNTY OF EL PASO, STATE OF COLORADO
PCD FILING NO.: SF229

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EL PASO COUNTY PLANNING
DEPARTMENT
2680 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, CO 80910

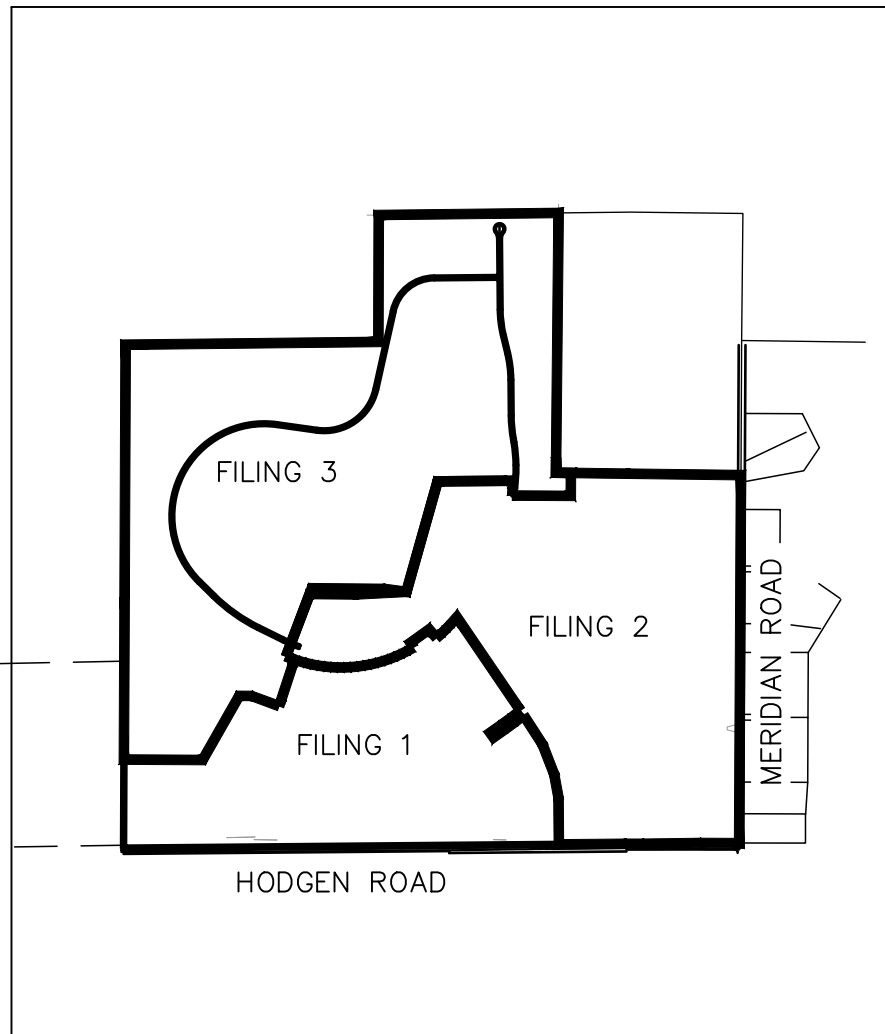
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DEPUTY CHIEF JEFF PETERSMA
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PAYTON, CO 80831
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VICINITY MAP
1"=2,000'

LEGAL DESCRIPTION

TRACT OF LAND BEING A PORTION OF THE SOUTHEAST QUARTER OF SECTION 13, AND A PORTION OF SECTION 24, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE WEST QUARTER CORNER OF SAID SECTION 24, SAID POINT BEING THE POINT OF BEGINNING; THENCE N00°14'25"E ON THE WEST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 24, SAID LINE ALSO BEING ON THE WEST BOUNDARY OF PARCEL 4, AS RECORDED UNDER RECEPTION NUMBER 218900072, A DISTANCE OF 2,636.99 FEET TO THE NORTHWEST CORNER OF SAID SECTION 24; THENCE N89°21'38"E ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SAID SECTION 24, A DISTANCE OF 2,633.02 FEET TO THE NORTH QUARTER CORNER OF SAID SECTION 24; THENCE N00°10'29"E ON THE WEST LINE OF THE SOUTH HALF OF THE SOUTH EAST QUARTER OF SECTION 13, TOWNSHIP 11 SOUTH, RANGE 65 WEST, A DISTANCE OF 1,321.95 FEET TO THE NORTHWEST CORNER OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 13; THENCE N89°20'26"E ON THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 13, A DISTANCE OF 1,873.37 FEET; THENCE S00°34'43"W, A DISTANCE OF 2,706.21 FEET; THENCE S89°15'17"E, A DISTANCE OF 155.82 FEET; THENCE S00°17'06"W, A DISTANCE OF 239.06 FEET; THENCE N89°42'54"W, A DISTANCE OF 609.60 FEET TO A POINT ON CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT, WHOSE CENTER BEARS N85°44'53"W, HAVING A DELTA OF 05°13'06", A RADIUS OF 1,710.00 FEET, A DISTANCE OF 155.74 FEET TO A POINT ON CURVE; THENCE S89°02'00"W, A DISTANCE OF 60.00 FEET; S89°29'13"W, A DISTANCE OF 722.44 FEET; THENCE S15°45'23"W, A DISTANCE OF 1,195.74 FEET; THENCE N82°21'05"W, A DISTANCE OF 229.91 FEET; THENCE N89°29'30"W, A DISTANCE OF 757.49 FEET; THENCE S20°46'13"W, A DISTANCE OF 758.90 FEET TO A POINT ON CURVE; THENCE ON THE ARC OF A CURVE TO THE LEFT, WHOSE CENTER BEARS N22°56'03"E, HAVING A DELTA OF 03°42'28", A RADIUS OF 1,470.00 FEET, A DISTANCE OF 95.13 FEET TO A POINT ON CURVE; THENCE S19°13'35"W, A DISTANCE OF 60.00 FEET; THENCE S18°06'10"W, A DISTANCE OF 383.72 FEET TO A POINT OF CURVE; THENCE ON THE ARC OF A CURVE TO THE RIGHT, HAVING A DELTA OF 02°06'44", A RADIUS OF 1,790.00 FEET, A DISTANCE OF 65.99 FEET TO A POINT ON CURVE; THENCE N69°47'06"W, A DISTANCE OF 306.30 FEET; THENCE N89°45'39"W, A DISTANCE OF 128.26 FEET; THENCE S29°41'56"W, A DISTANCE OF 768.98 FEET; THENCE N89°41'23"W, A DISTANCE OF 820.25 FEET TO A POINT ON THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 24; THENCE N00°14'17"E ON THE WEST LINE OF SOUTHWEST QUARTER OF SAID SECTION 24 A DISTANCE OF 1,684.27 FEET TO THE POINT OF BEGINNING.

CONTAINING A CALCULATED AREA OF 15,222,954 SQUARE FEET OR 349.471 ACRES.

BENCHMARK

A 2.5" ALUMINUM CAP BEING A 30 FOOT WITNESS CORNER NORTH OF THE SOUTHWEST CORNER OF SECTION 24, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN.

BASIS OF BEARING

THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6 PRINCIPAL MERIDIAN MONUMENTED ON THE SOUTHERLY END BY A 2-1/2" ALUMINUM CAP STAMPED '1S 28658" AND AT THE NORTHERLY END BY A 3-1/2" ALUMINUM CAP STAMPED '1S 12103" BEING ASSUMED TO BEAR N00°14'25"E A DISTANCE OF 2636.99 FEET AS SHOWN IN LAND SURVEY PLAT RECORDED UNDER RECEPTION 218900072 RECORDS OF EL PASO COUNTY, COLORADO.

FLOODPLAIN NOTE

FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, MAP NUMBER 08041C0350G, EFFECTIVE DECEMBER 7, 2018 INDICATES THE AREA IN THE VICINITY OF THIS PARCEL OF LAND TO BE IN ZONE X (AREA DETERMINED TO BE OUT OF THE 500 YEAR FLOODPLAIN). A CONDITIONAL LETTER OF MAP REVISION HAS BEEN PROCESSED AND APPROVED FOR THIS REACH OF WEST KIOWA CREEK (FEMA CASE NO: 19-08-0185R).



Sheet List Table	
Sheet Number	Sheet Title
C1.0	COVER SHEET
C1.1	GENERAL NOTES
C1.2	CROSS SECTIONS
C1.3	HORIZONTAL CONTROL PLAN
C1.4	GRADING PLAN
C1.5	GRADING PLAN
C1.6	GRADING PLAN
C1.7	GRADING PLAN
C1.8	GRADING PLAN DETAILS
C1.9	ALAMAR PLAN AND PROFILE
C1.10	ALAMAR PLAN AND PROFILE
C1.11	ALAMAR PLAN AND PROFILE
C1.12	ALAMAR PLAN AND PROFILE
C1.13	ALAMAR PLAN AND PROFILE
C1.14	ALAMAR PLAN AND PROFILE
C1.15	ALAMAR PLAN AND PROFILE
C1.16	ALAMAR PLAN AND PROFILE
C1.17	TWINKLING STAR PLAN AND PROFILE
C1.18	TWINKLING STAR PLAN AND PROFILE
C1.19	TWINKLING STAR PLAN AND PROFILE
C1.20	CUL-DE-SAC PLAN AND PROFILE
C1.21	SIGNING AND STRIPING PLAN
C1.22	CUT AND FILL MAP
C1.23	GEC FINAL PLAN
C1.24	GEC FINAL PLAN
C1.25	GEC FINAL PLAN
C1.26	GEC FINAL PLAN
C1.27	FIRE CISTERN PLAN
C1.28	FIRE CISTERN DETAILS
C1.29	POND 1 OVERVIEW
C1.30	POND 1 DETAILS
C1.31	POND 1 & SEDIMENT BASIN H5B DETAILS
C1.35	POND 2 OVERVIEW
C1.33	POND 2 DETAILS
C1.34	POND 2 DETAILS
C1.38	POND 4 OVERVIEW
C1.36	POND 4 DETAILS
C1.37	POND 4 DETAILS
C1.41	WQ POND A OVERVIEW
C1.39	WQ POND DETAILS
C1.40	WQ POND DETAILS

cut and fill map is C1.21

check all other titles vs sheet numbers in this TOC.

Fix out of order numbering

Update TOC with sheets that were added in. The list should go up to C1.43

OWNER'S STATEMENT

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

OWNER SIGNATURE _____ DATE _____

JOE DESJARDIN, DIRECTOR OF ENTITLEMENTS
WINSOME, LLC
1864 WOODMOOR DRIVE, SUITE 100
MONUMENT, CO 80132

ENGINEER'S STATEMENT

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

KEVIN KOFFORD, PE (CO #57234) – KIMLEY-HORN AND ASSOCIATES, INC. DATE _____

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 DIRECTOR'S DISCRETION.

JENNIFER IRVINE, PE COUNTY ENGINEER/ECM ADMINISTRATOR _____ DATE _____

Kimley»Horn

2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/2021

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
COVER SHEET

PRELIMINARY
FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
Kimley»Horn
KimleyHorn and Associates, Inc.

PROJECT NO.
196106001

SHEET

C1.0

EL PASO COUNTY GRADING AND EROSION CONTROL PLAN NOTES

1. 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.
2. 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 STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED ESQCP. A PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECOM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. 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 WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY CREEK OR STREAM OR SUBSURFACE WATER SYSTEMS. FUGITIVE DUST, FUGITIVE WASHOUTS 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.
14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES 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.
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER 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.
20. 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 OFF-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE WITHOUT PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECOM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (CITILE 25, ARTICLE 8, 8-25), AND THE "COLORADO WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME 1, AND THE ECOM APPENDIX 1. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. DATED JANUARY 26, 2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP) OF WHICH THIS GRADING AND EROSION CONTROL 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

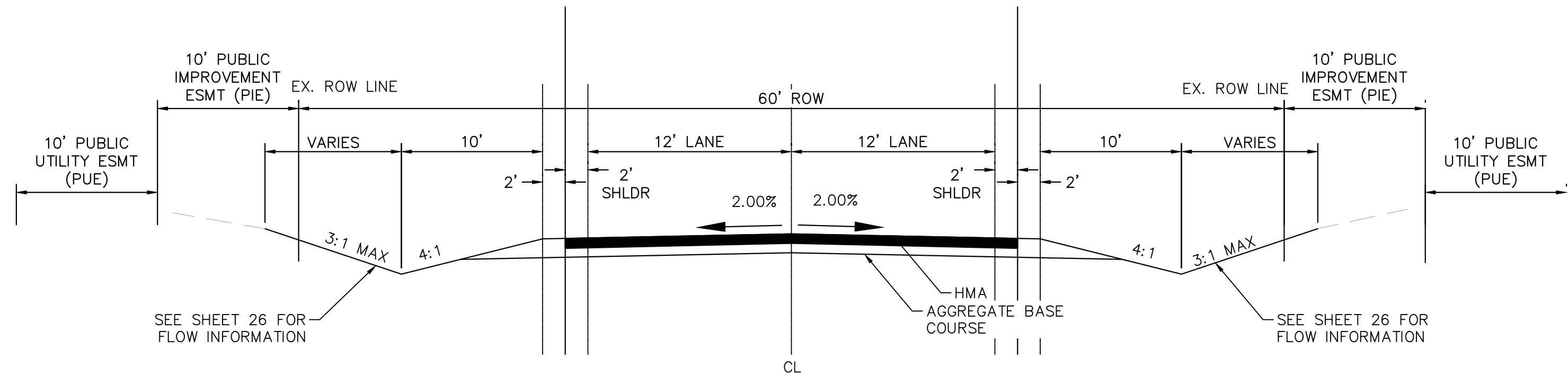
STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, 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 THE PLANS OR NOT, BEFORE BEGINNING 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 KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - d. CDOT M & S STANDARDS
4. 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 STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) – INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS—ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

[illegible]

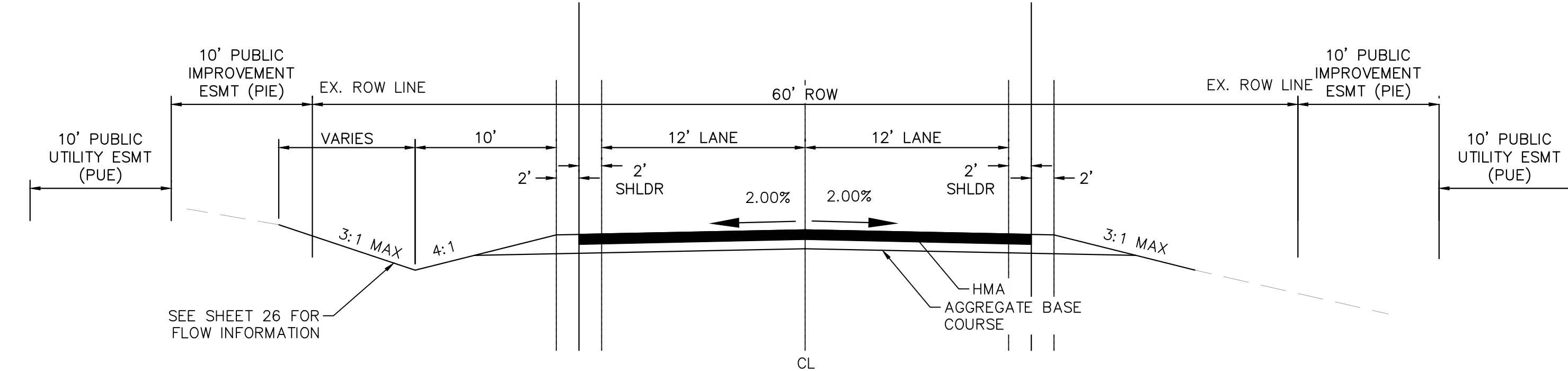
K:\COS_Civil\196106001_Winsome Filing No. 3\CADD\PlanSheets\CDs\196106001_CD_NOTES AND CROSS SECTIONS.dwg Wood, Alex 3/15/2023 3:39 PM

ROADWAY CROSS SECTIONS



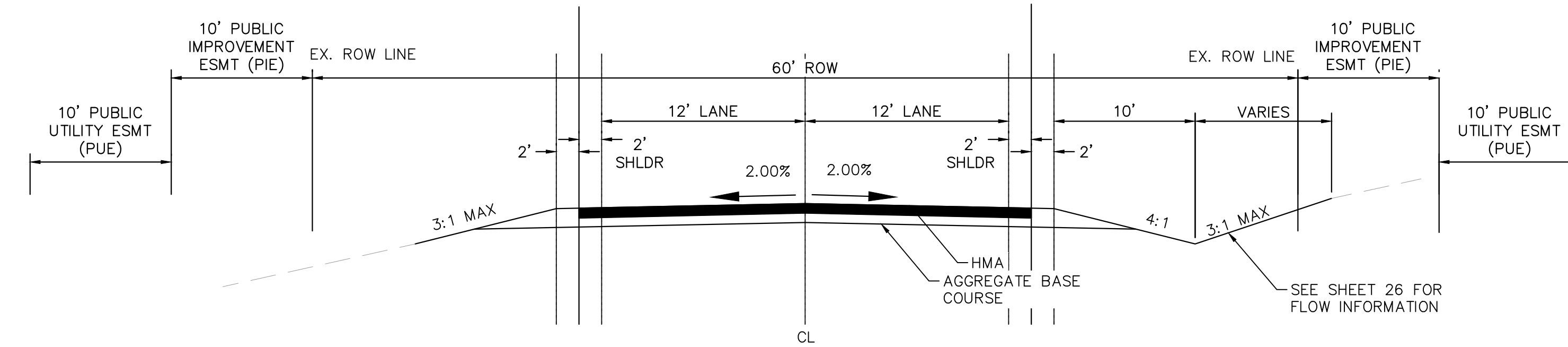
(A) RURAL LOCAL ROADWAY – ROADSIDE DITCH: LEFT AND RIGHT
SCALE: NTS

ALAMAR WAY: 1014+50–1017+00, 1022+00–1027+00, 1035+00–1045+00, 1051+00–1054+00, 1064+00–END
TWINKLING STAR LANE: 2000+00–2004+00, 2013+50–2023+00

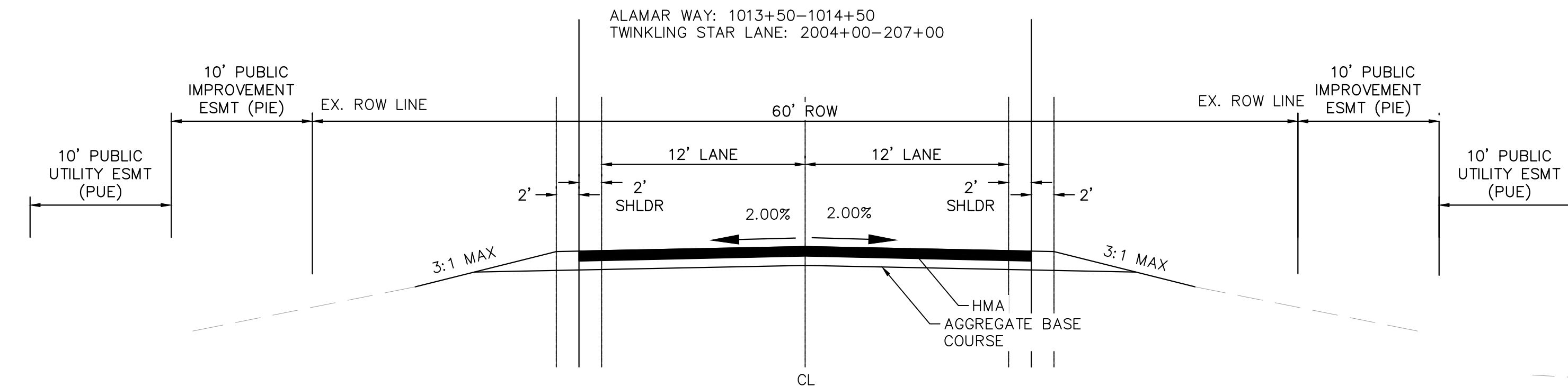


(B) RURAL LOCAL ROADWAY – ROADSIDE DITCH LEFT ONLY
SCALE: NTS

ALAMAR WAY: 1008+50–1010+50, 1018+50–1022, 1032+00–1035+00, 1048+00–1051+00
TWINKLING STAR LANE: 2023+00–2028+00



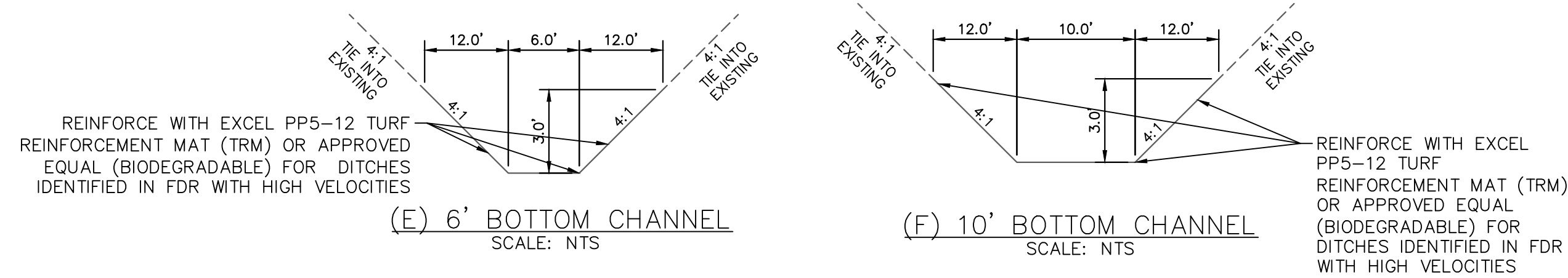
(C) RURAL LOCAL ROADWAY – ROADSIDE DITCH RIGHT ONLY
SCALE: NTS



(D) RURAL LOCAL ROADWAY – NO ROADSIDE DITCH
SCALE: NTS

ALAMAR WAY: 1000+00–1008+50, 1010+50–1013+50, 1017+00–1018+50, 1027+00–1032+00, 1045+00–1048+00, 1054+00–1064+00
TWINKLING STAR LANE: 2007+00–2013+50

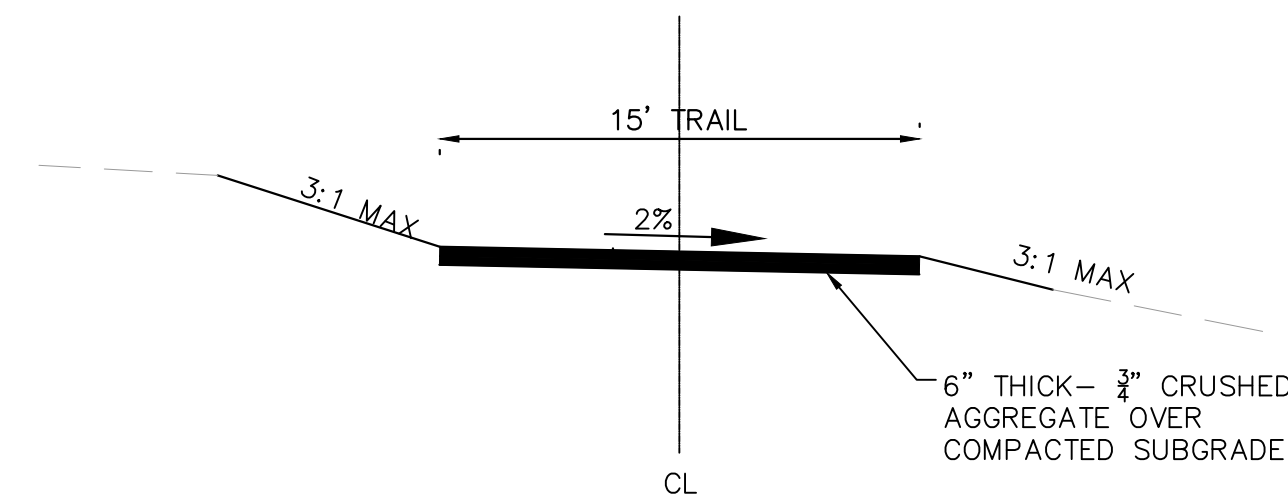
DRAINAGE CHANNEL CROSS SECTIONS



ROADWAY	FROM STA	TO STA	PROPOSED SLOPE (%)	SIDE	SIDE SLOPE	CHANNEL DEPTH (FT)	FRICTION FACTOR	BASIN	Q100 FLOW (CFS)	DITCH FLOW % OF BAS	DITCH FLOW (CFS)	DITCH DEPTH (FT)	Q100 VELOCITY (FT/S)	DITCH LINING	CHANNEL XSECTION
ALAMAR WAY	1008+50	1010+50	5.38%	LEFT	4:1/3:1	3	0.04	G2B	9.6	50%	4.8	0.6	3.8	GRASS	
ALAMAR WAY	1008+50	1010+50	5.32%	RIGHT	4:1/3:1	3	0.04	A3A & A2B	46.1	100%	46.1	1.4	6.6	GRASS/TRM*	SWALE A3A
ALAMAR WAY	1013+50	1014+50	4.45%	RIGHT	4:1/3:1	3	0.04	G2B	9.6	20%	1.9	0.4	2.8	GRASS	
ALAMAR WAY	1014+50	1017+00	5.45%	RIGHT	4:1/3:1	3	0.04	G2B	9.6	10%	1.0	0.3	2.6	GRASS	
ALAMAR WAY	1014+50	1017+00	5.16%	LEFT	4:1/3:1	3	0.04	A3A	25.8	25%	6.5	0.7	4.0	GRASS	
ALAMAR WAY	1018+50	1022+00	4.17%	LEFT	4:1/3:1	3	0.04	G1	40.1	25%	10.0	0.8	4.1	GRASS	
ALAMAR WAY	1022+00	1027+00	3.92%	RIGHT	4:1/3:1	3	0.04	H4	73.6	10%	7.4	0.8	3.7	GRASS	
ALAMAR WAY	1022+00	1027+00	3.71%	LEFT	4:1/3:1	3	0.04	G1	40.1	25%	10.0	0.9	3.9	GRASS	
ALAMAR WAY	1032+00	1035+00	2.04%	LEFT	4:1/3:1	3	0.04	H1	33.0	10%	3.3	0.6	2.4	GRASS	
ALAMAR WAY	1035+00	1045+00	5.88%	RIGHT	4:1/3:1	3	0.04	H6B	57.1	10%	5.7	0.6	4.1	GRASS	
ALAMAR WAY	1035+00	1045+00	5.79%	LEFT	4:1/3:1	3	0.04	H1 & H2	98.2	15%	14.7	0.9	5.1	GRASS	
ALAMAR WAY	1048+00	1051+00	3.45%	LEFT	4:1/3:1	3	0.04	H2	65.2	25%	16.3	0.9	5.3	GRASS	
ALAMAR WAY	1051+00	1054+00	7.02%	RIGHT	4:1/3:1	3	0.04	H6B	57.1	10%	5.7	0.6	4.4	GRASS	
ALAMAR WAY	1051+00	1054+00	6.27%	LEFT	4:1/3:1	3	0.04	H2	65.2	10%	6.5	0.7	4.3	GRASS	
ALAMAR WAY	1064+00	END	3.66%	RIGHT	4:1/3:1	3	0.04	H7A	27.1	10%	2.7	0.5	2.8	GRASS	
ALAMAR WAY	1064+00	END	3.36%	LEFT	4:1/3:1	3	0.04	I1 & H3B	27.2	44%	12.0	0.9	4.0	GRASS	SWALE H3B
TWINKLING STAR LANE	2000+00	2004+00	3.61%	RIGHT	4:1/3:1	3	0.04	E8	25.6	35%	9.0	0.8	3.8	GRASS	
TWINKLING STAR LANE	2000+00	2004+00	3.40%	LEFT	4:1/3:1	3	0.04	D6	28.1	25%	7.0	0.8	3.5	GRASS	
TWINKLING STAR LANE	2004+00	2007+00	6.14%	RIGHT	4:1/3:1	3	0.04	E8	25.6	35%	9.0	0.7	4.6	GRASS	
TWINKLING STAR LANE	2013+50	2023+00	7.84%	RIGHT	4:1/3:1	3	0.04	H8A & I1 & H3B	38.4	82%	31.5	1.1	7.0	GRASS/TRM*	SWALE I1
TWINKLING STAR LANE	2013+50	2023+00	8.17%	LEFT	4:1/3:1	3	0.04	H7A	27.1	100%	27.1	1.1	6.8	GRASS/TRM*	
TWINKLING STAR LANE	2023+00	2028+00	1.14%	LEFT	4:1/3:1	3	0.04	I1	20.3	50%	10.2	1.1	2.6	GRASS	

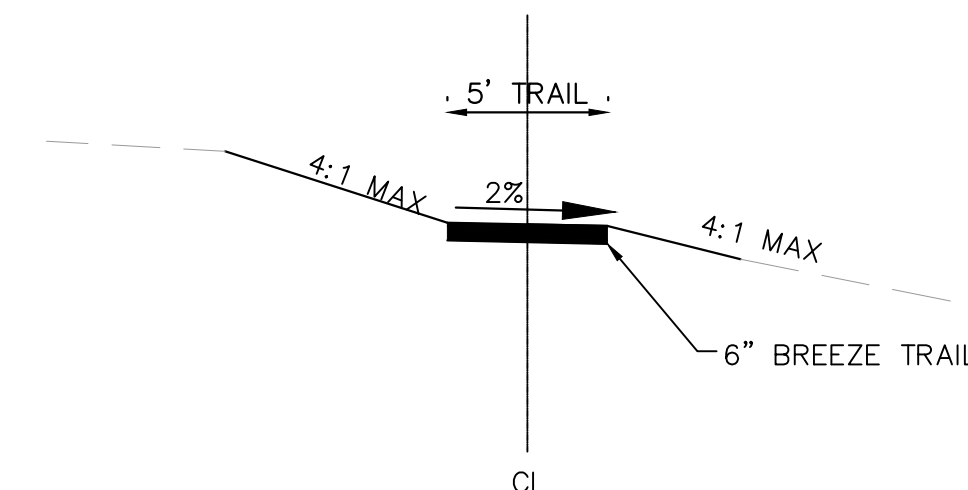
*: Turf Reinforcement Matting will be installed within the final phase of the Grading, and Erosion Control plans. In the interim condition, Turf Reinforcement Mat lined channels will have seeding and mulching with straw waddle check dams.

MAINTENANCE ROAD CROSS SECTION



(H) MAINTENANCE ROAD
SCALE: NTS

TRAIL CROSS SECTION



(G) GRAVEL TRAIL
SCALE: NTS

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CROSS SECTIONS

Kimley»Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

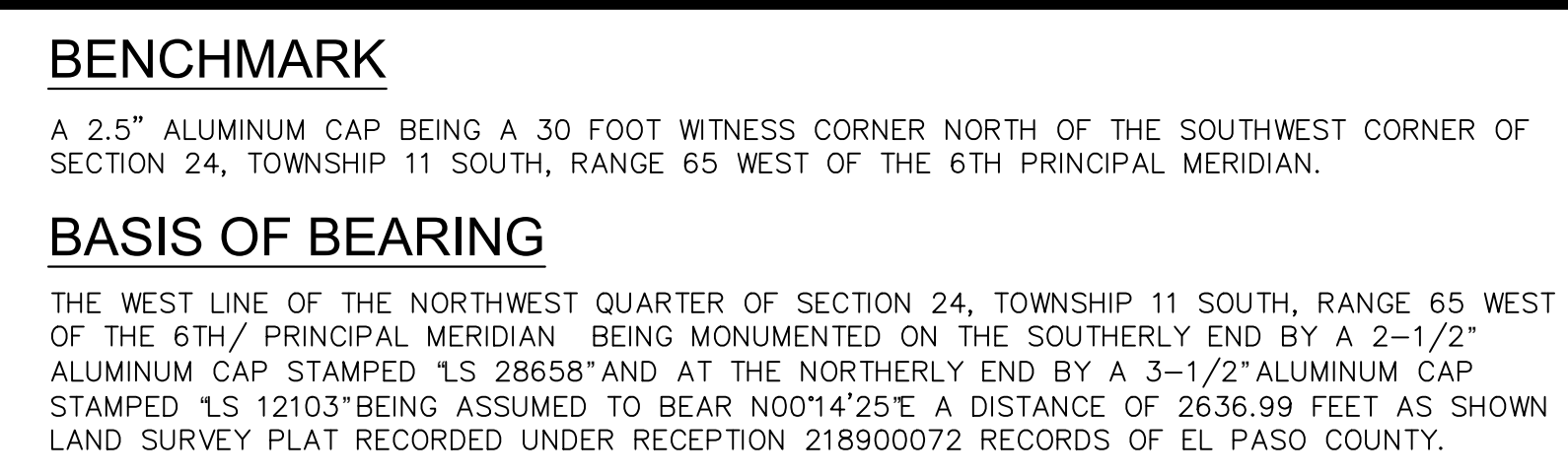
DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/2021

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Kimley-Horn and Associates, Inc.

PROJECT NO.
196106001

SHEET

C1.2

[illegible]

Kimley»»Horn
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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

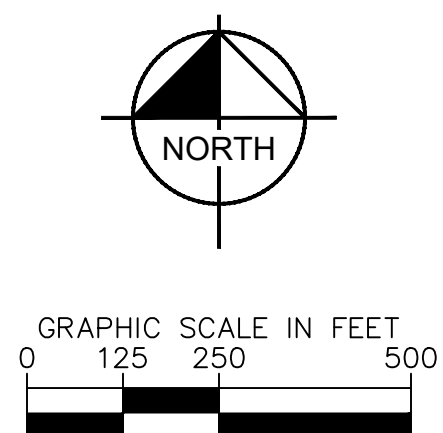
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CHECKED BY: KRK
DATE: 12/16/2021

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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
HORIZONTAL CONTROL PLAN

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Kimley-Horn and Associates, Inc.

PROJECT NO. 196106001
SHEET

C1.3



MATCH LINE: SEE SHEET C1.5 FOR CONTINUATION

OWNER: RICHARDS
VERNON A
SCHEDULE NO.
5123000012

OWNER: LOUDERMILK
LIVING TRUST
SCHEDULE NO.
5123003001

OWNER: VAN
BUSKIRK CARROLL C
REVOC TRUST
SCHEDULE NO.
5123000019

OWNER:
PENNY-WEBER
MANDY A
SCHEDULE NO.
5123001015

LOT 4

LOT 3

LOT 2

LOT 35

LOT 36

LOT 37

LOT 38

LOT 34

100 YEAR WATER
SURFACE PONDING
ELEVATION: 7379.03

PROPOSED CULVERT G1

PROPOSED 30.0'
DRAINAGE EASEMENT

ROCK CHUTE 1. REF EGP 21-005 FOR DETAILS

REACH H1

ROCK CHUTE 2. REF EGP 21-005 FOR DETAILS

ROCK CHUTE 3. REF EGP 21-005 FOR DETAILS

REACH H4

PERMANENT SEDIMENT BASIN H5B

PROPOSED H5B OUTFALL PIPE. REF EGP 21-005 FOR DETAILS

FULL SPECTRUM
EXTENDED DETENTION
POND #1. REFERENCE
SHEETS C1.32 TO
C1.34 FOR DETAILS

ROCK CHUTE 4. REF SHEET C1.34

EFFECTIVE 100 YEAR FLOODPLAIN PER FIRM PANEL 08041C0350G

PROPOSED 100 YEAR FLOODPLAIN PER APPROVED CDMR

PROPOSED DRAINAGE EASEMENT

WQA POND. REFERENCE SHEETS C1.41 TO C1.43 FOR DETAILS

ROCK CHUTE 10. REF SHEET C1.43

ROCK CHUTE 11. REF SHEET C1.43

PROPOSED DRAINAGE EASEMENT

60' PROPOSED R.O.W.

10' PUBLIC IMPROVEMENT EASEMENT

10' PUBLIC UTILITY EASEMENT

100 YEAR WATER
SURFACE PONDING
ELEVATION: 7343.33

PROPOSED CULVERT A3A

PROPOSED 30.0'
DRAINAGE EASEMENT

EXISTING FENCE

EXISTING FENCE

WETLAND BOUNDARY

FILING 3 BOUNDARY

PROPOSED CULVERT 1 (TRIPLE 12'X7' RCBC) REF CDR-2112

R=1470.00'
L=95.13'

1000+00

S19°13'35"W
60.00'

S18°06'10"W 383.72'

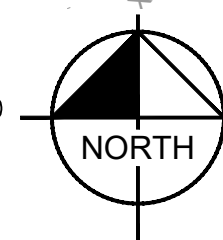
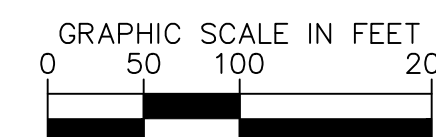
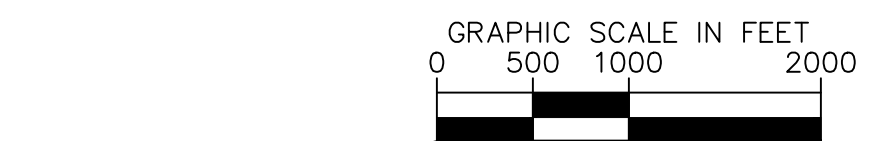
S20°46'13"W 758.90'

GRAPHIC SCALE IN FEET
0 50 100 200

NORTH

MATCH LINE: SEE SHEET C1.7 FOR CONTINUATION

	LOT BOUNDARY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
	PROPOSED STORM LINE
	UTILITY EASEMENT
	R.O.W. LINE
	EDGE OF PAVEMENT

[illegible]

Kimley»Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/2021

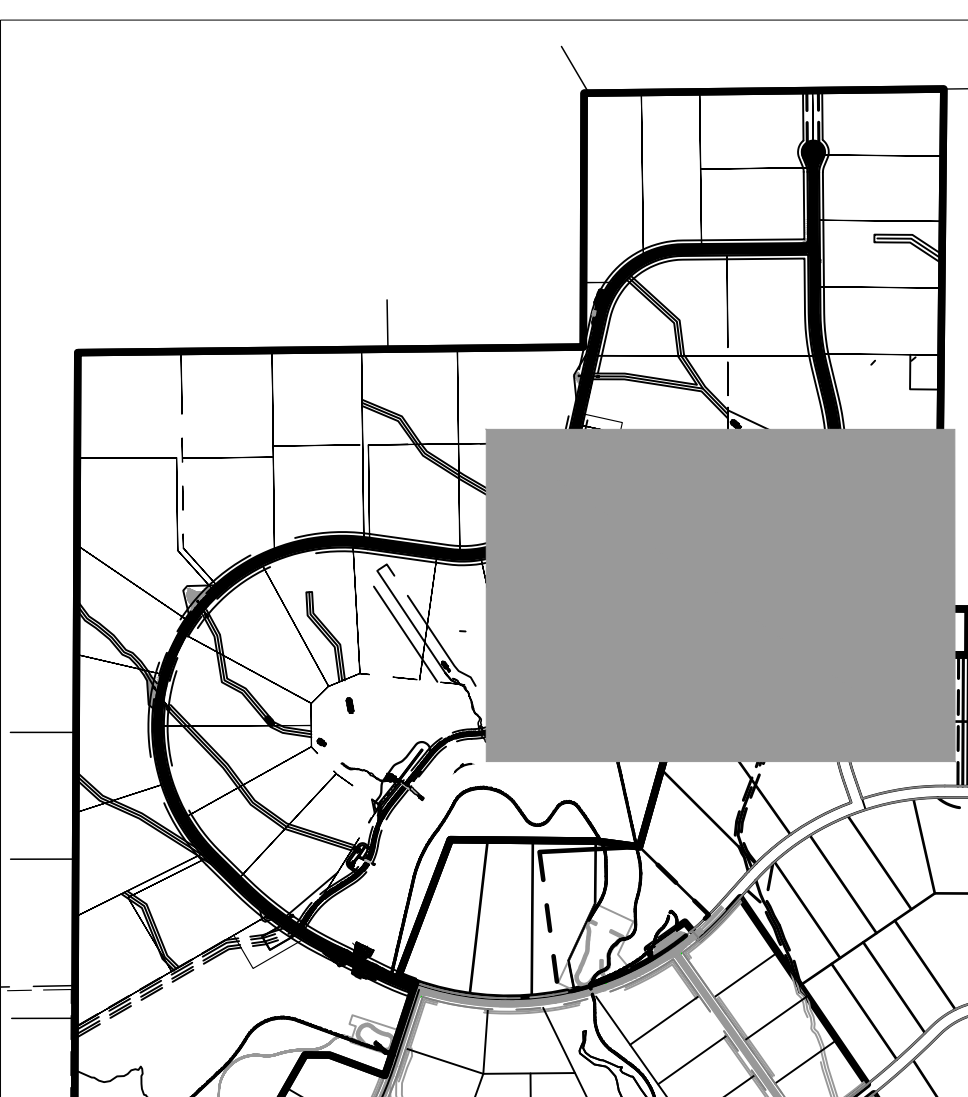
WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
GRADING PLAN

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Kimley-Horn and Associates, Inc.

PROJECT NO. 196106001
SHEET

C1.4

MATCH LINE: SEE SHEET C1.5 FOR CONTINUATION

[illegible]

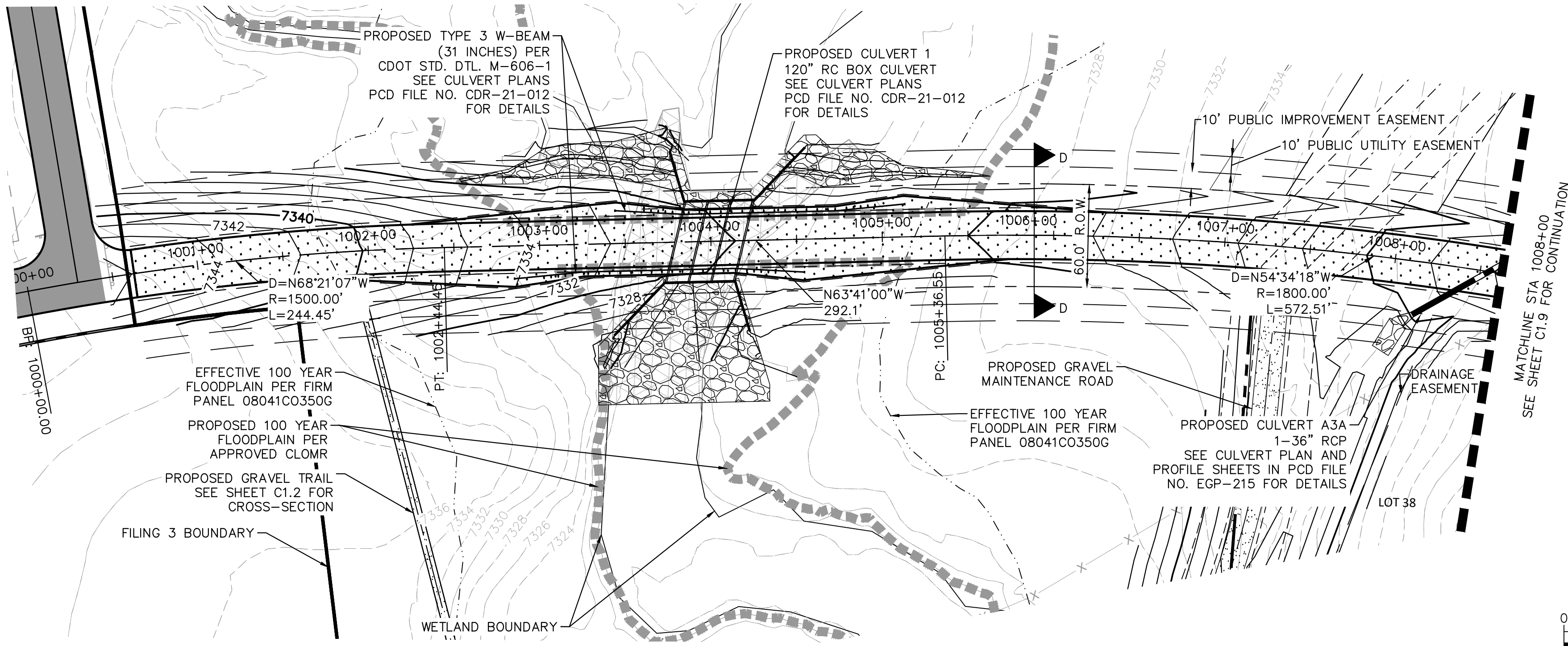
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CHECKED BY: KRK
DATE: 12/16/202

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PROJECT NO.
196106001

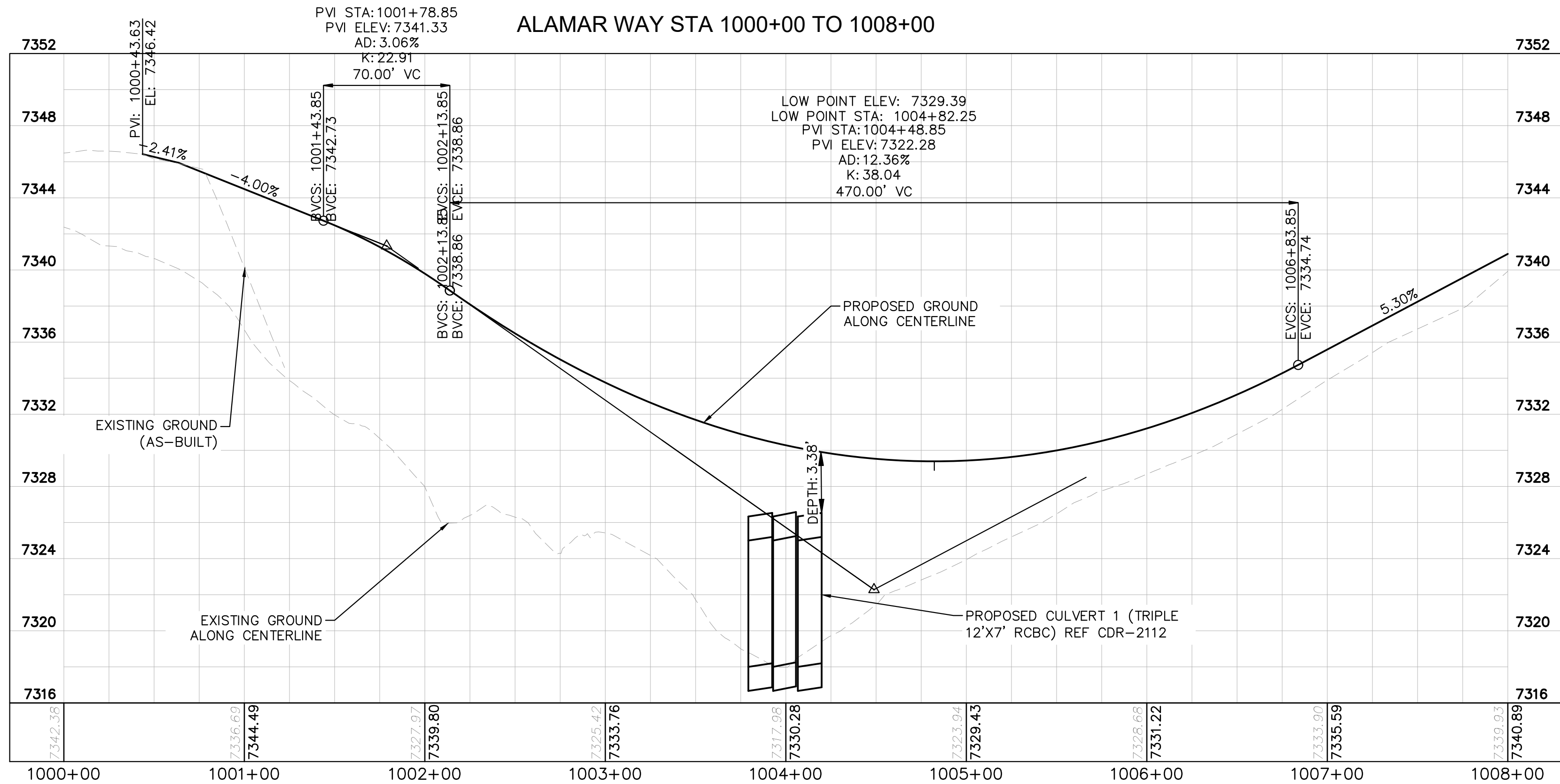
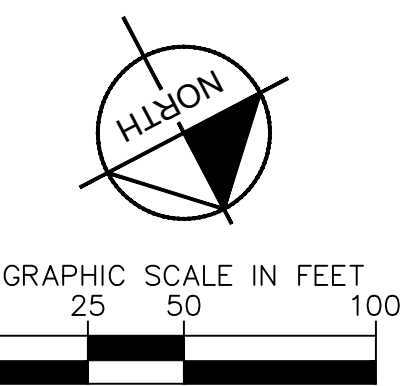
SHEET
C1.7

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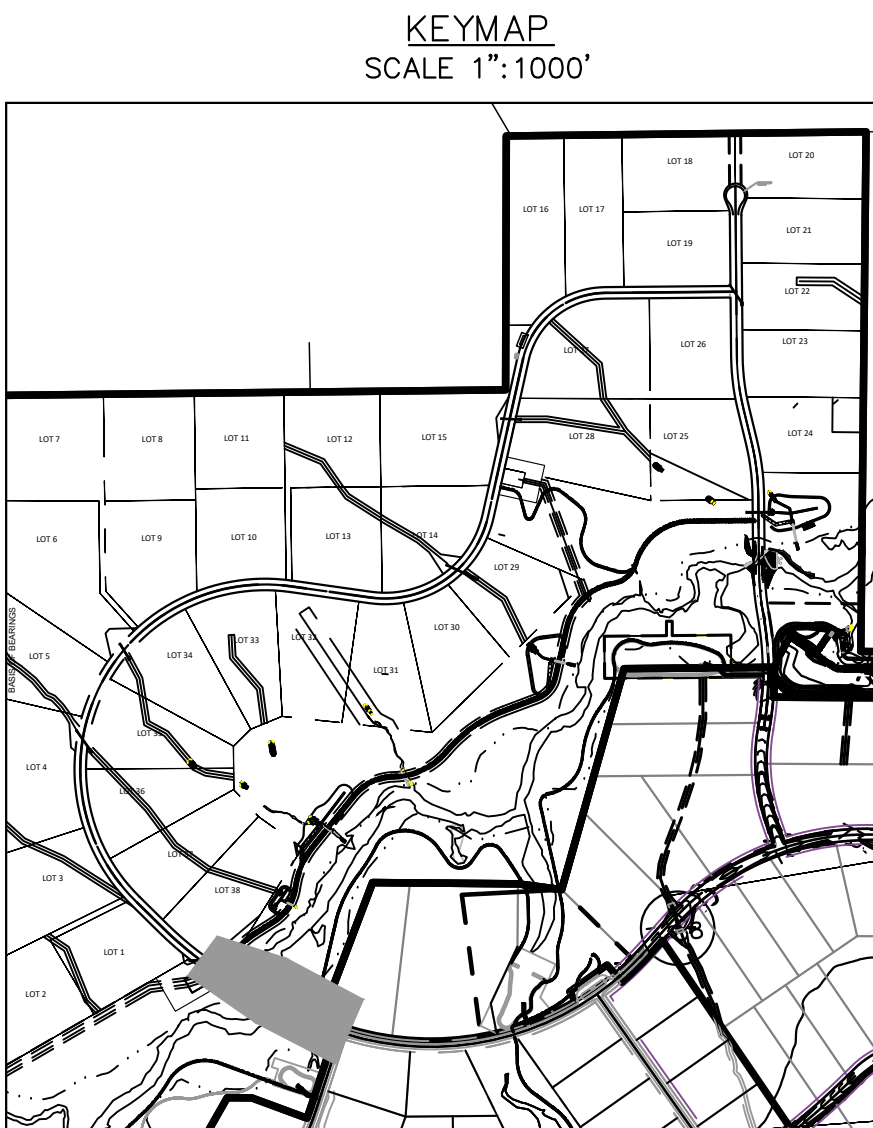
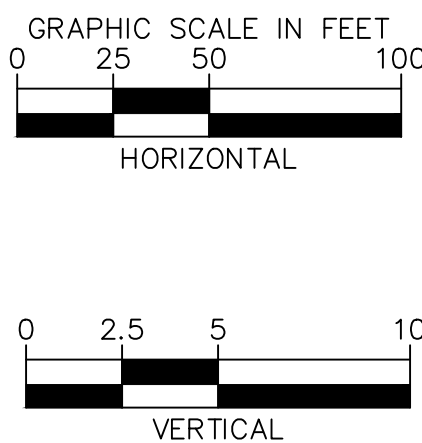
LEGEND

- LOT BOUNDARY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
- PROPOSED STORM LINE
- UTILITY EASEMENT
- R.O.W. LINE
- EDGE OF PAVEMENT



NOTES

- SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



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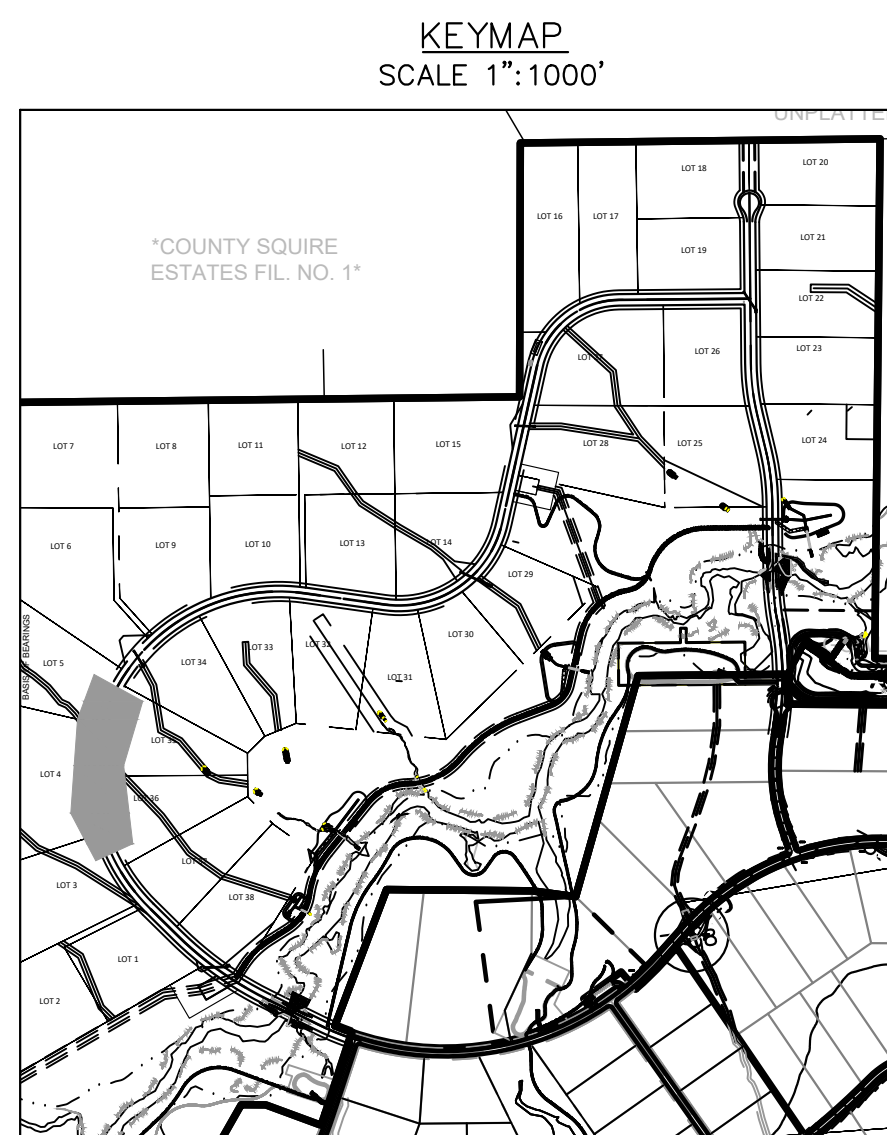
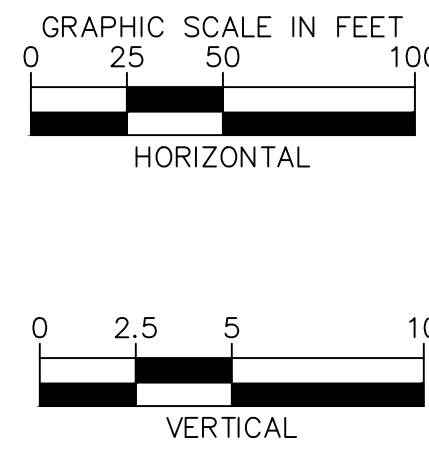
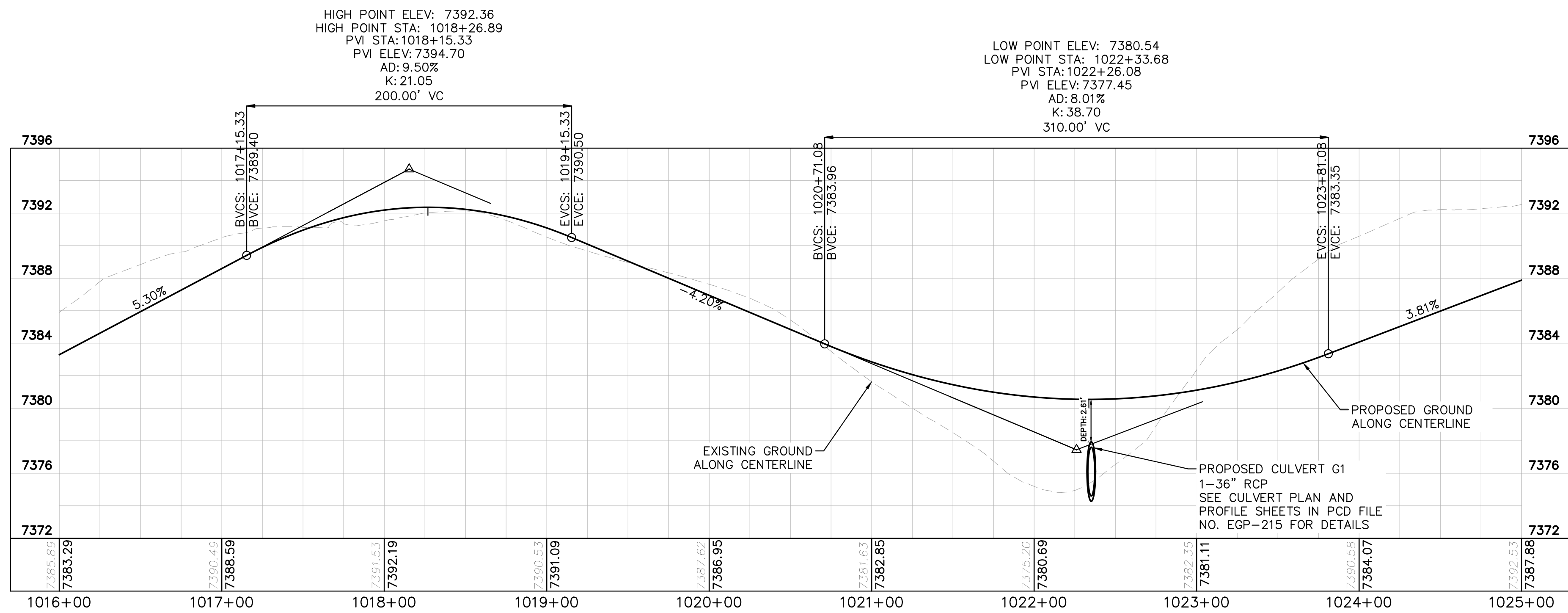
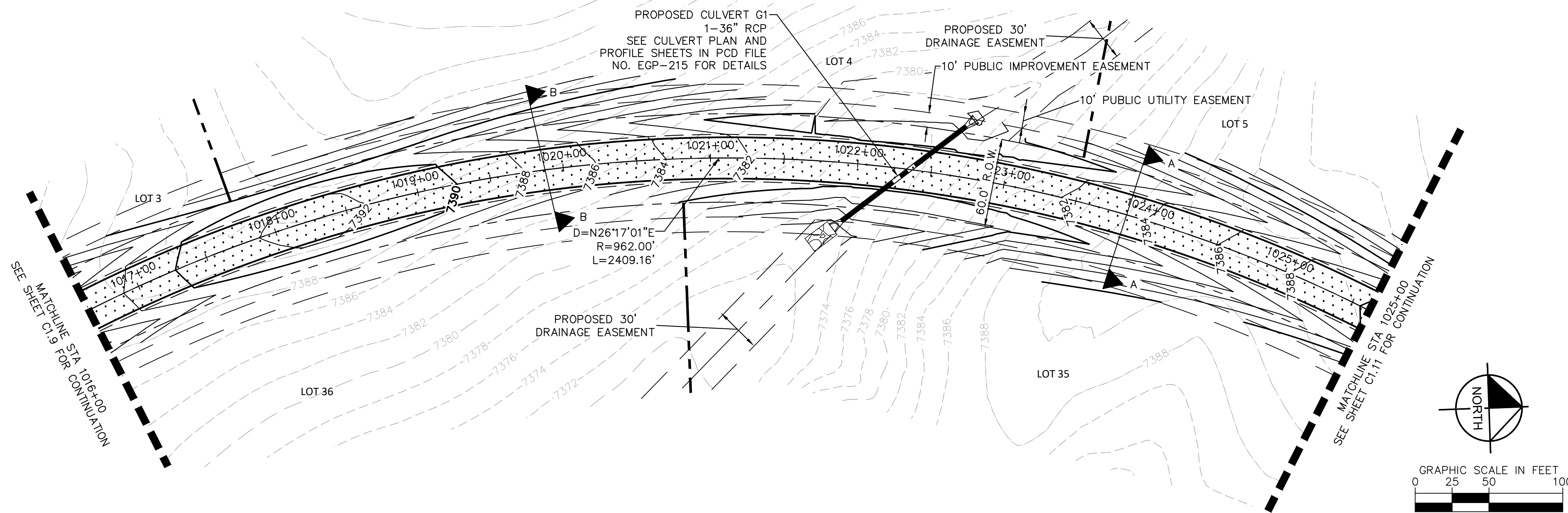
2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: A.JL
CHECKED BY: KRK
DATE: 12/16/2021

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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
ALAMAR PLAN AND PROFILE

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PROJECT NO.
196106001
SHEET
C1.8



LEGEND

LOT BOUNDARY LINE

EXISTING MAJOR CONTOUR

EXISTING MINOR CONTOUR

PROPOSED MAJOR CONTOUR

PROPOSED MINOR CONTOUR

STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)

PROPOSED STORM LINE

UTILITY EASEMENT

R.O.W. LINE

EDGE OF PAVEMENT

NOTES

1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.

[illegible]

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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

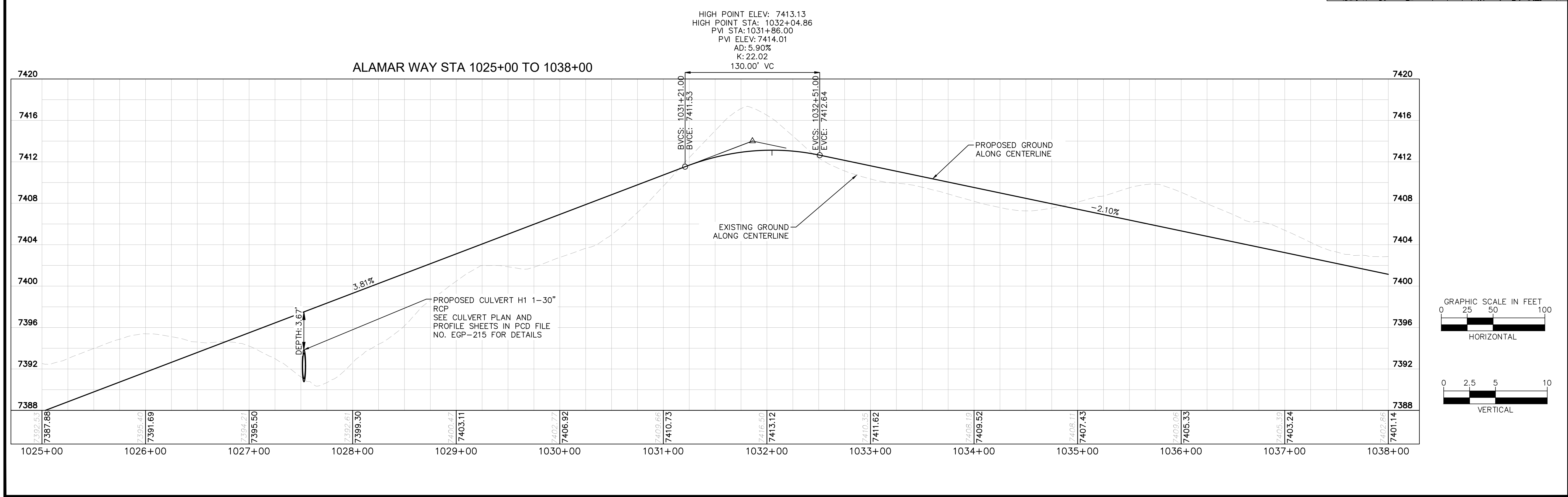
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DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/202

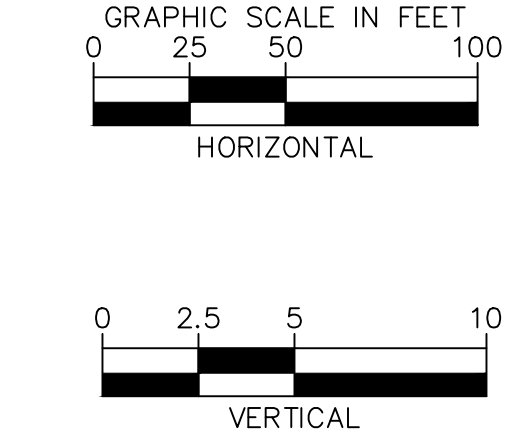
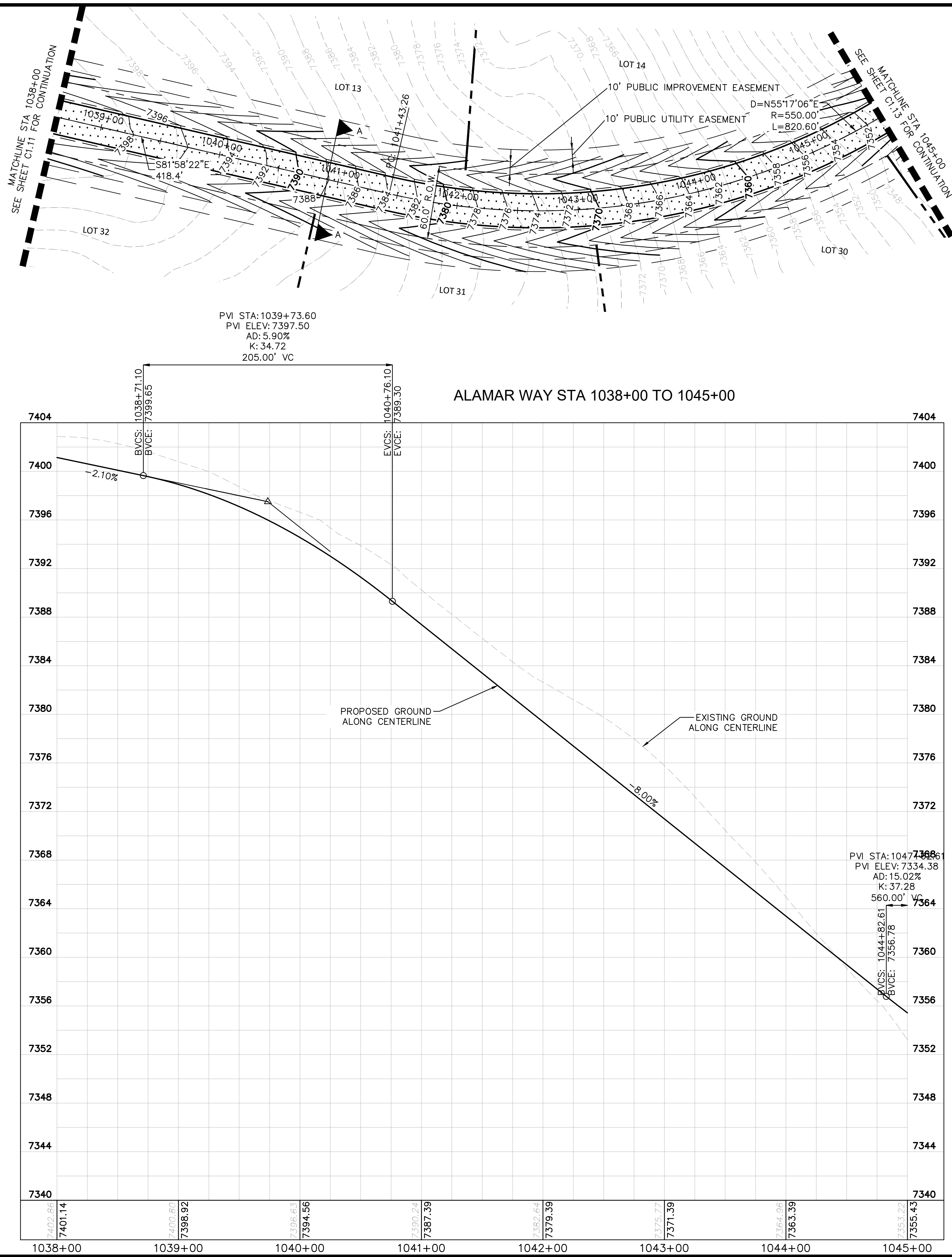
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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
ALAMAR PLAN AND PROFILE

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PROJECT NO.
196106001

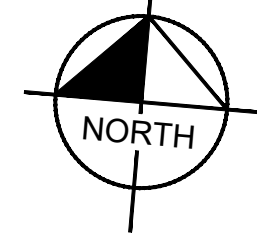
SHEET
C1.10

[illegible]



LEGEND

	LOT BOUNDARY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
	PROPOSED STORM LINE
	UTILITY EASEMENT
	R.O.W. LINE
	EDGE OF PAVEMENT

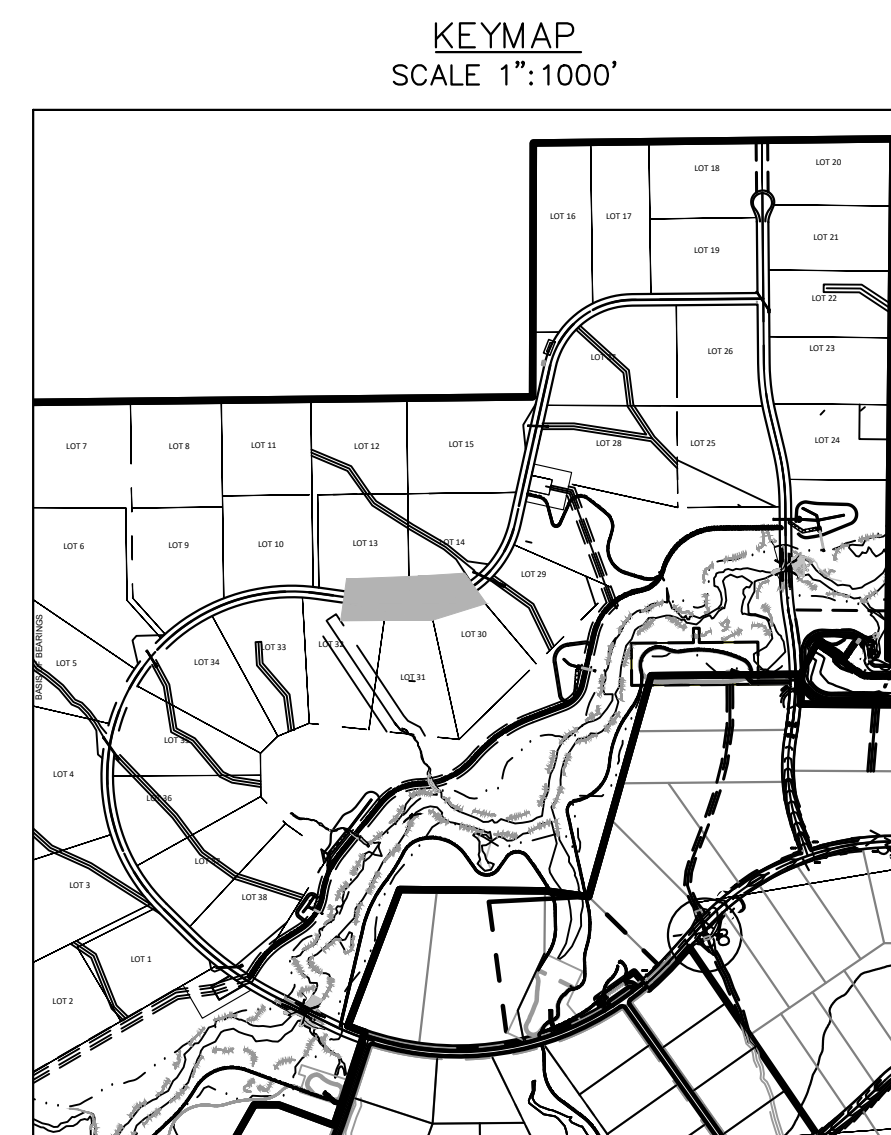


GRAPHIC SCALE IN FEET

A horizontal scale bar with tick marks at 0, 25, 50, and 100 feet. The bar is divided into alternating black and white segments: black from 0 to 25, white from 25 to 50, black from 50 to 75, and white from 75 to 100.

NOTES

1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND
ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
ALAMAR PLAN AND PROFILE

Kimley»Horn

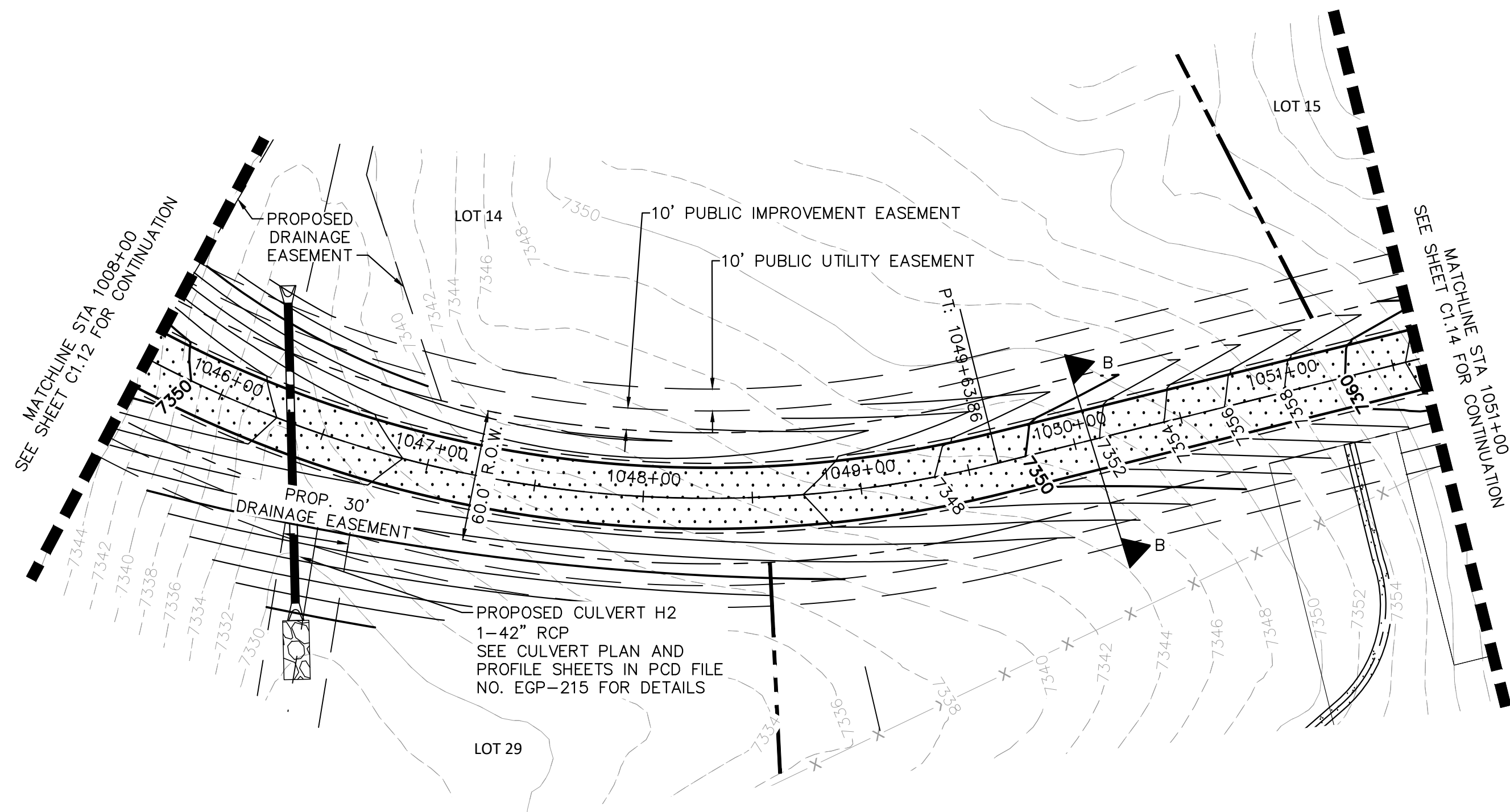
DESIGNED BY: KRK
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CHECKED BY: KRK
DATE: 12/16/2021

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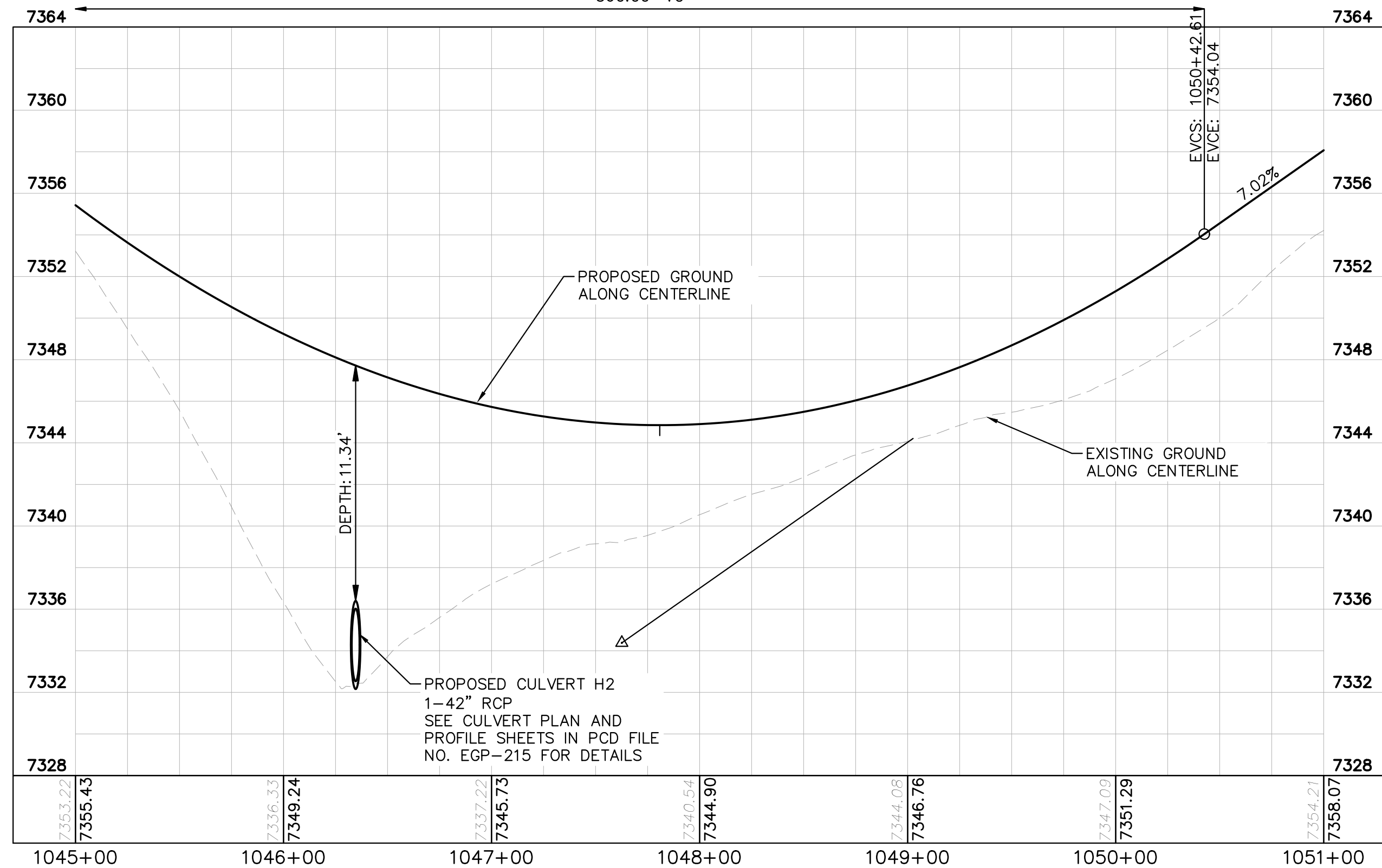
PROJECT NO.
196106001

SHEET
C1.12

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LOW POINT ELEV: 7344.85
LOW POINT STA: 1047+80.85
PVI STA: 1047+62.61
PVI ELEV: 7334.38
AD: 15.02%
K: 37.28
560.00' VC
ALAMAR WAY STA 1045+00 TO 1051+00



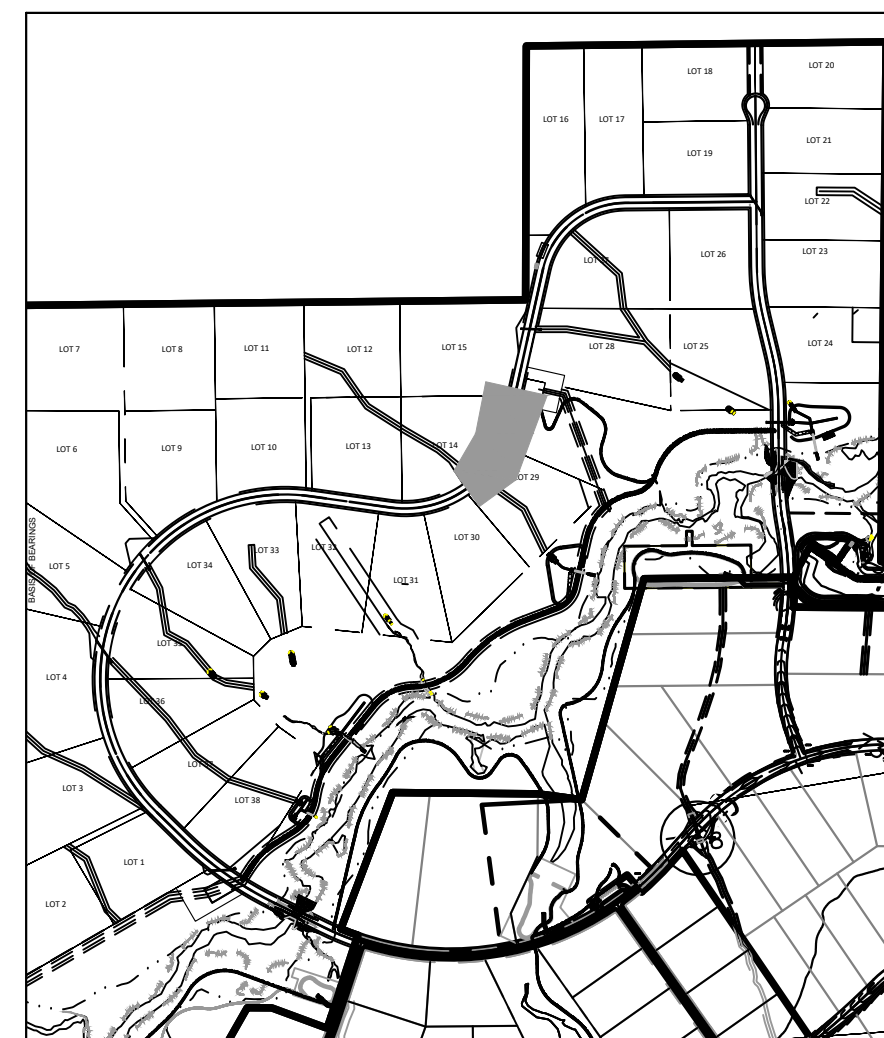
LEGEND

---	LOT BOUNDARY LINE
XXXX	EXISTING MAJOR CONTOUR
XXXX	EXISTING MINOR CONTOUR
XXXX	PROPOSED MAJOR CONTOUR
XXXX	PROPOSED MINOR CONTOUR
X X	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
---	PROPOSED STORM LINE
---	UTILITY EASEMENT
---	R.O.W. LINE
---	EDGE OF PAVEMENT

NOTES

- SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.

KEYMAP
SCALE 1"=1000'



Kimley»Horn

2021 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: A.JL
CHECKED BY: KRK
DATE: 12/16/2021

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
ALAMAR PLAN AND PROFILE

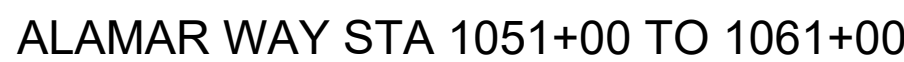
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Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196106001

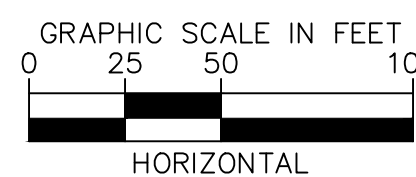
SHEET

C1.13

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1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND
ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.

[illegible]

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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/202

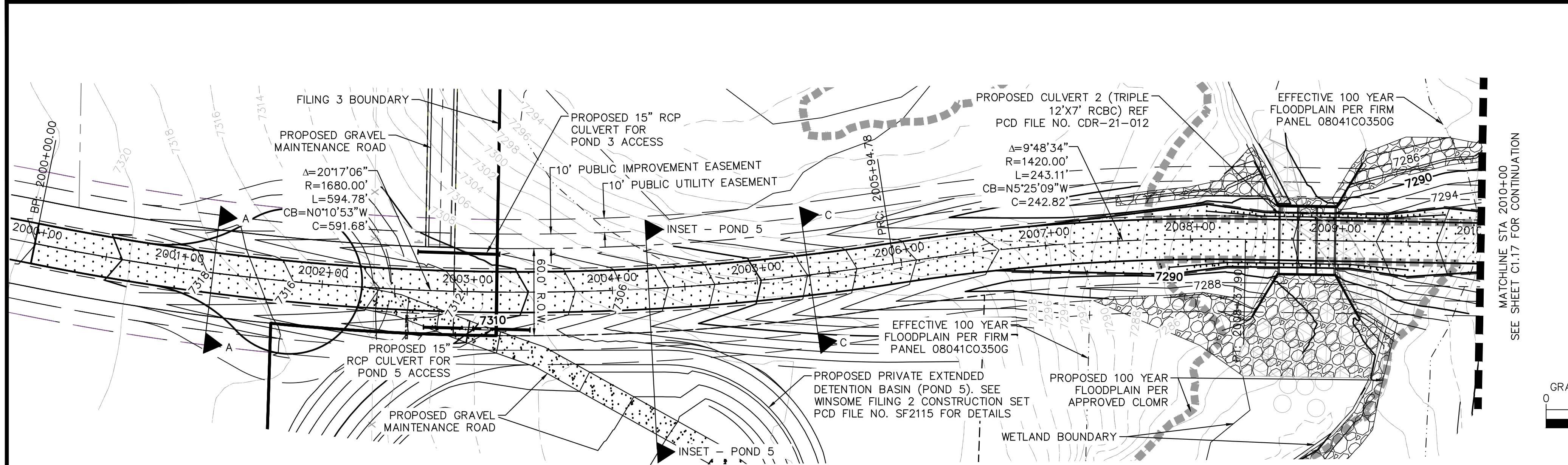
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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
ALAMAR PLAN AND PROFILE

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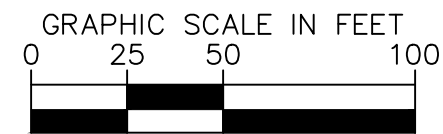
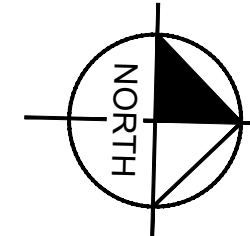
PROJECT NO.	196106001
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SHEET
C1.14

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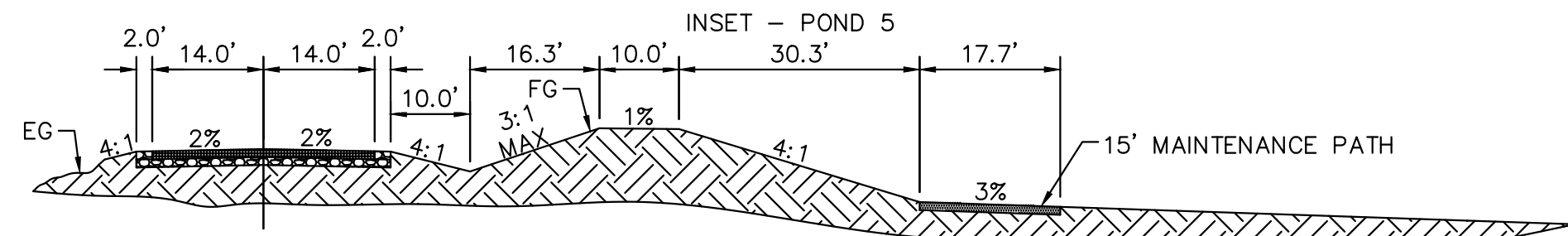


MATCHLINE STA. 2010+00
SEE SHEET C1.17 FOR CONTINUATION

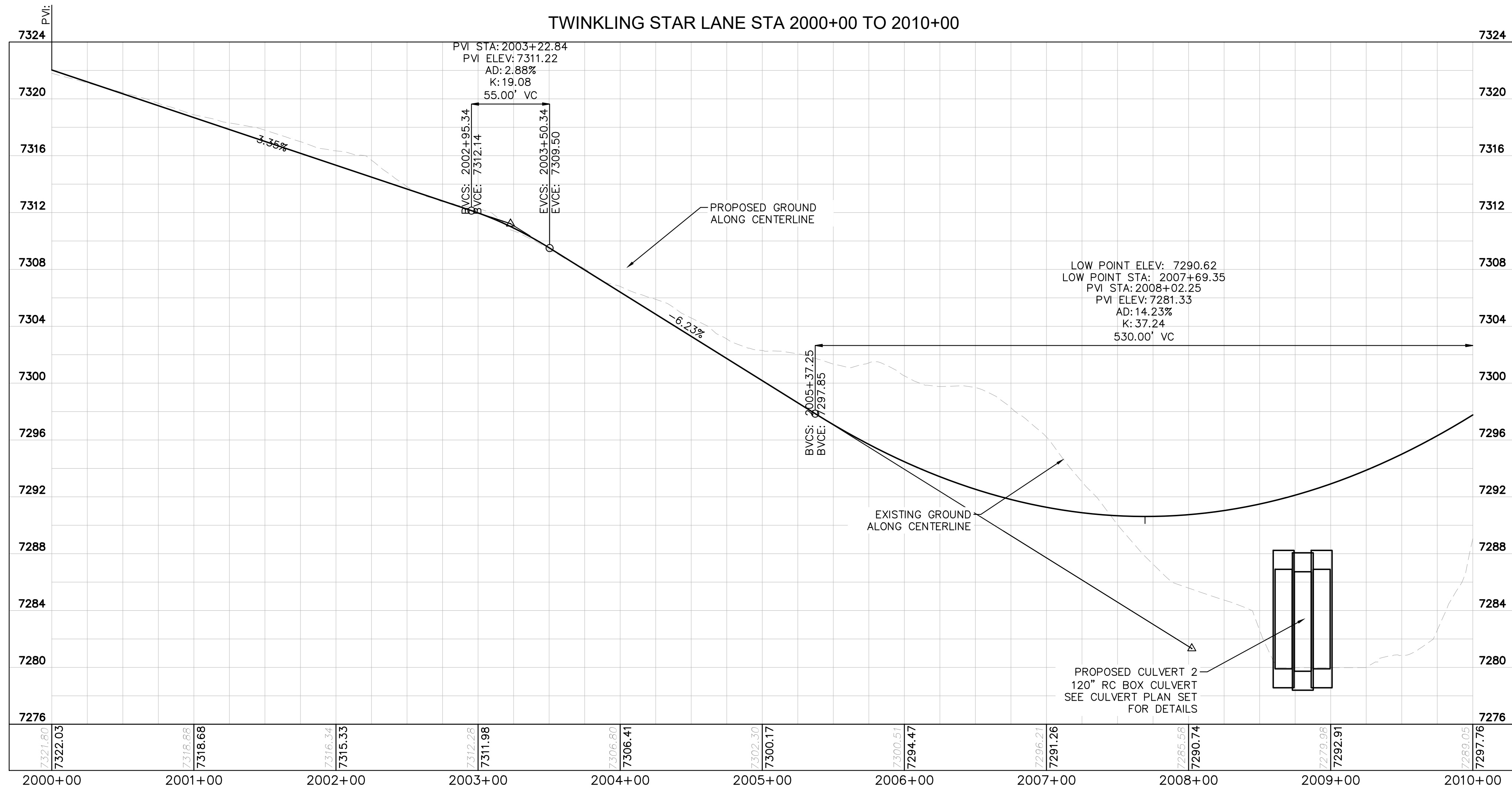


LEGEND

- LOT BOUNDARY LINE
- XXXX EXISTING MAJOR CONTOUR
- XXXX EXISTING MINOR CONTOUR
- XXXX PROPOSED MAJOR CONTOUR
- XXXX PROPOSED MINOR CONTOUR
- X X STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
- PROPOSED STORM LINE
- UTILITY EASEMENT
- R.O.W. LINE
- EDGE OF PAVEMENT

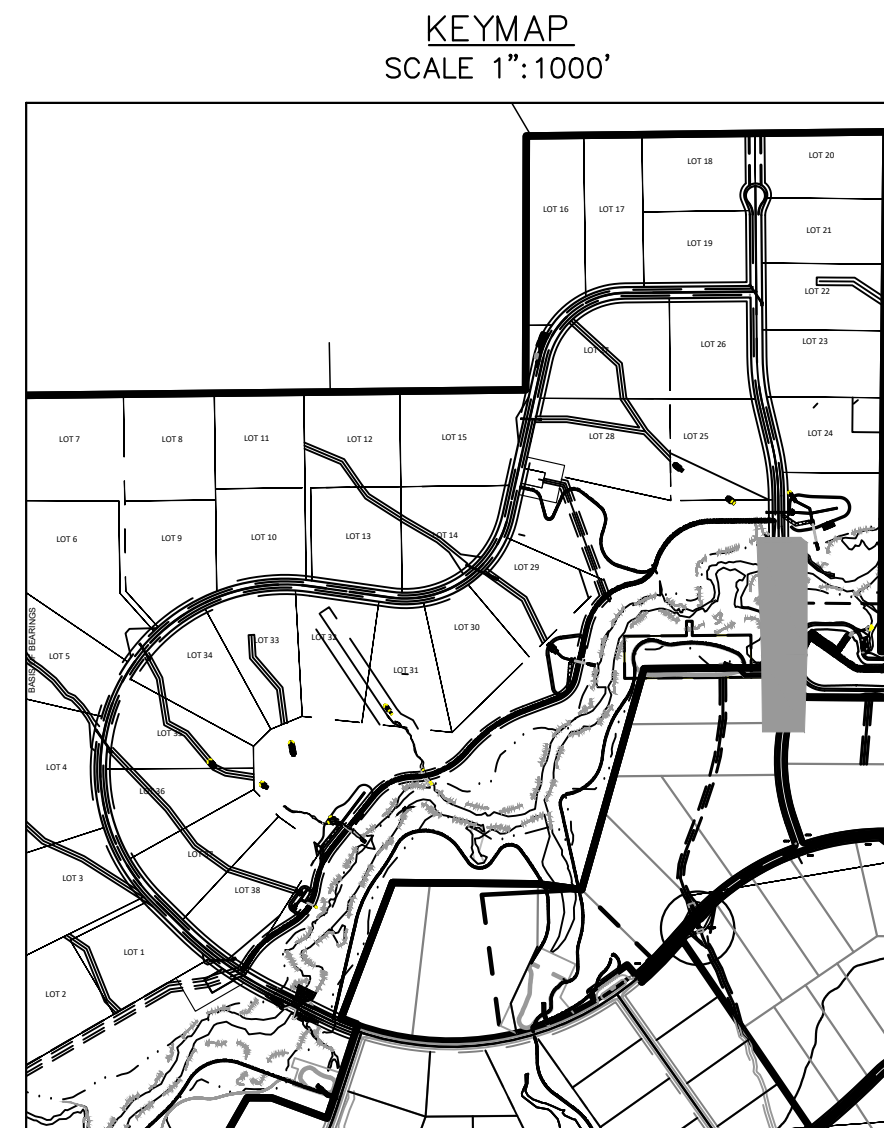
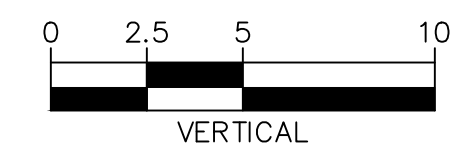
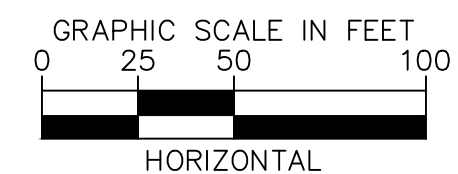


INSET - POND 5
(WINSOME FILING 2)
TWINKLING STAR STA: 2004+25.00
SCALE: 1"=5'



NOTES

- SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

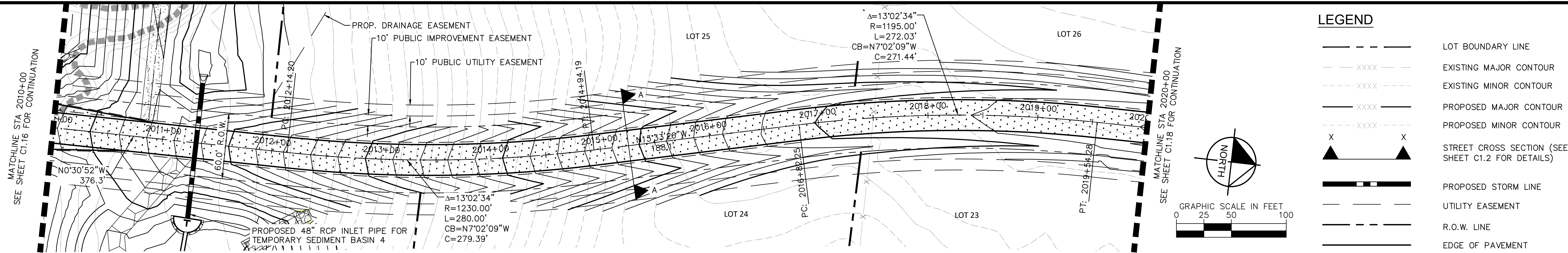
DESIGNED BY: KRK
DRAWN BY: AUL
CHECKED BY: KRK
DATE: 12/16/2021

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
TWINKLING STAR PLAN AND PROFILE

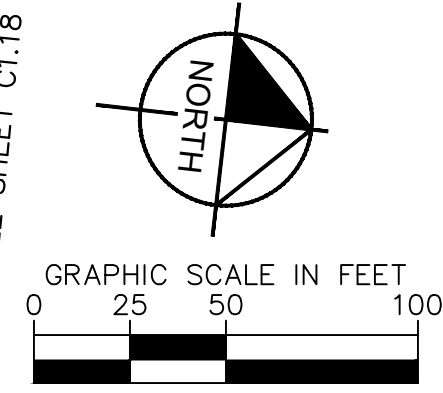
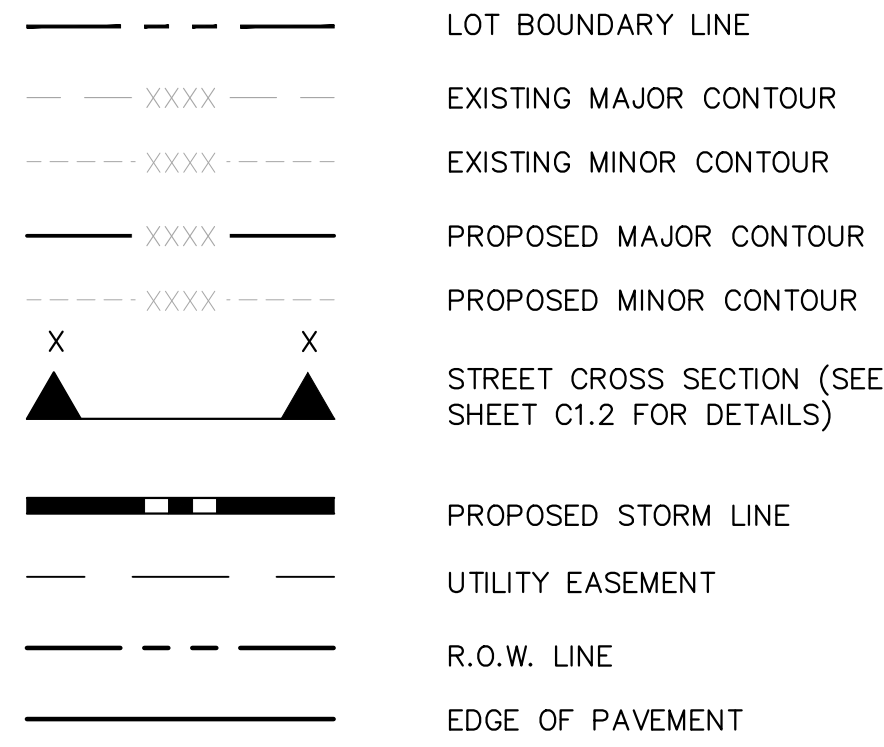
PRELIMINARY
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Kimley-Horn and Associates, Inc.

PROJECT NO.
196106001
SHEET
C1.16

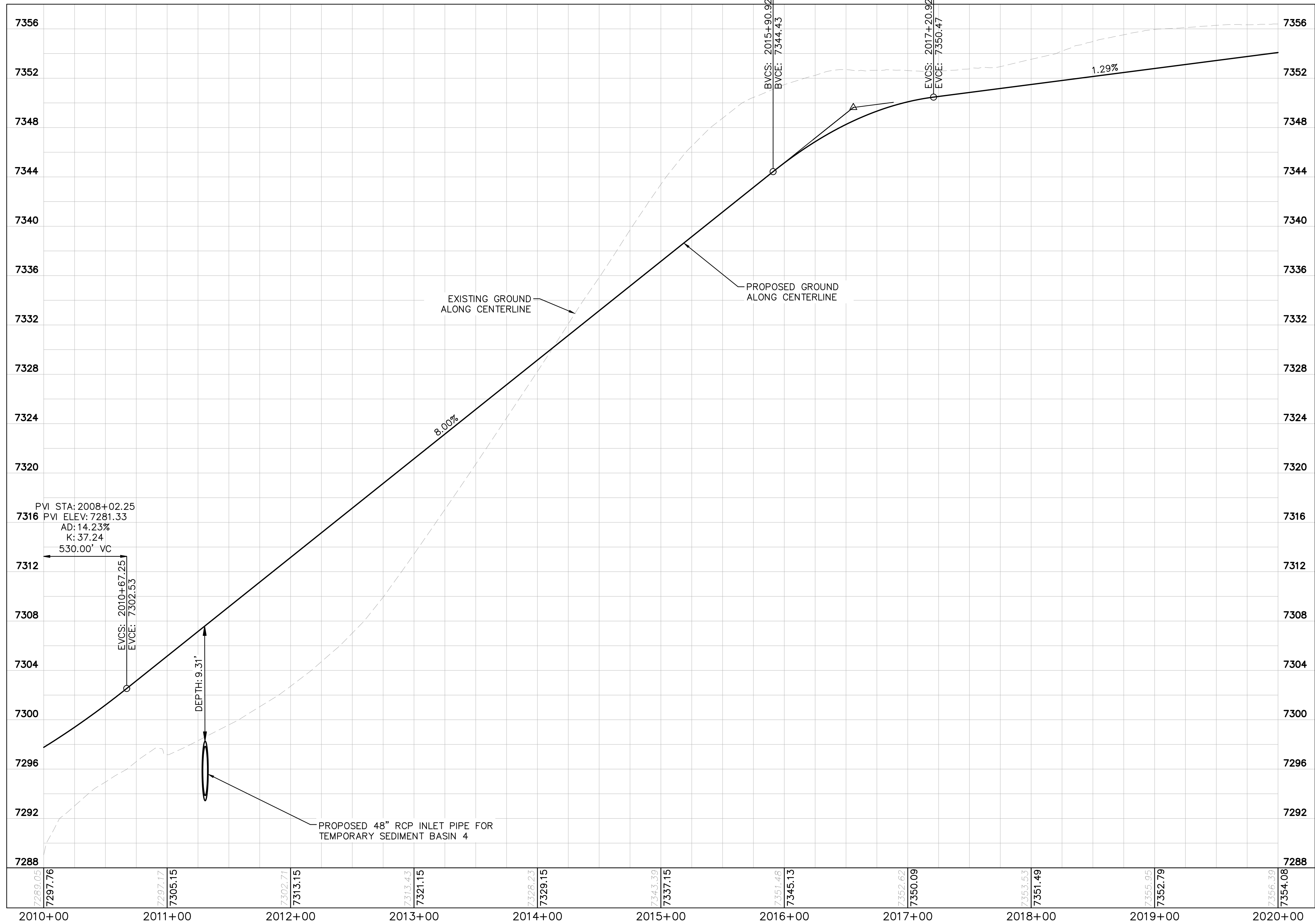
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LEGEND

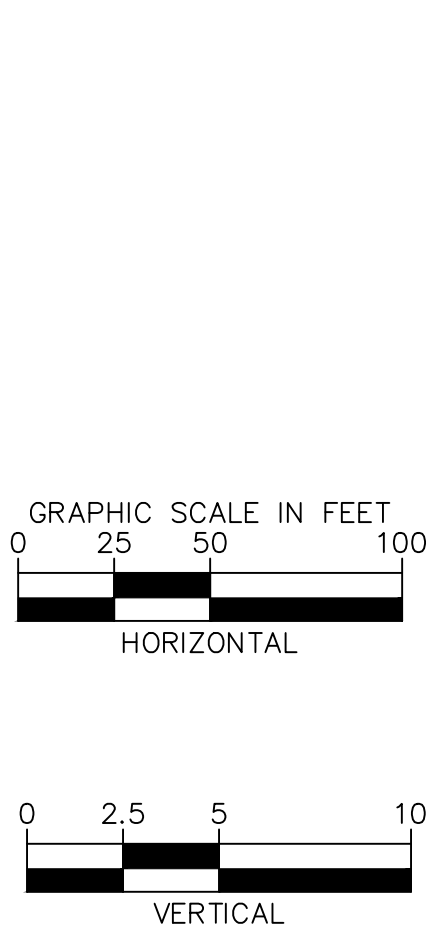


TWINKLING STAR LANE STA 2010+00 TO 2020+00



NOTES

1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.



Kimley»Horn

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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: A.J.L.
CHECKED BY: KRK
DATE: 12/16/2021

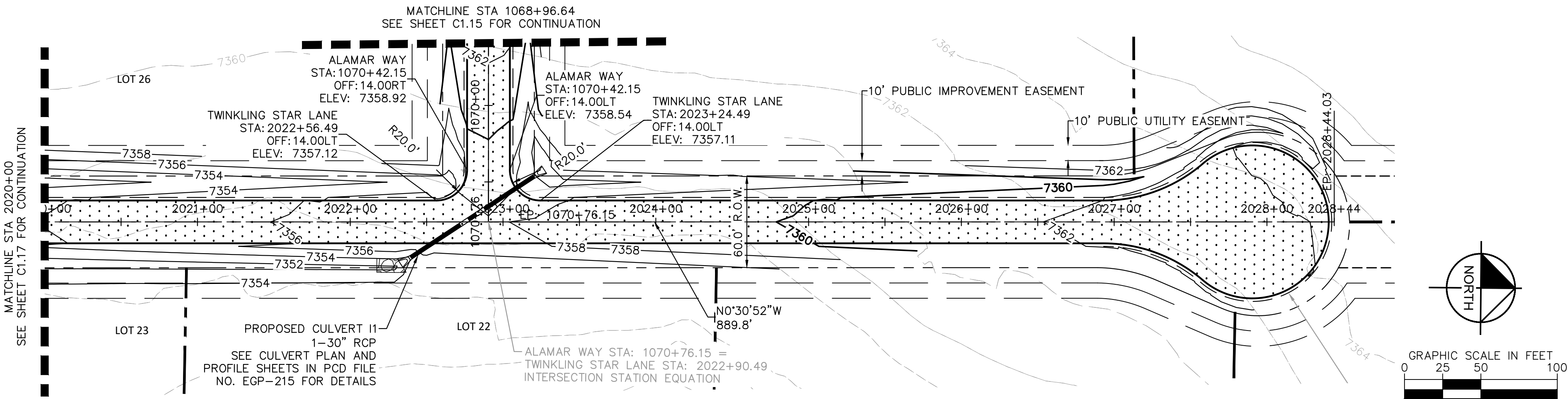
WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
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TWINKLING STAR PLAN AND PROFILE

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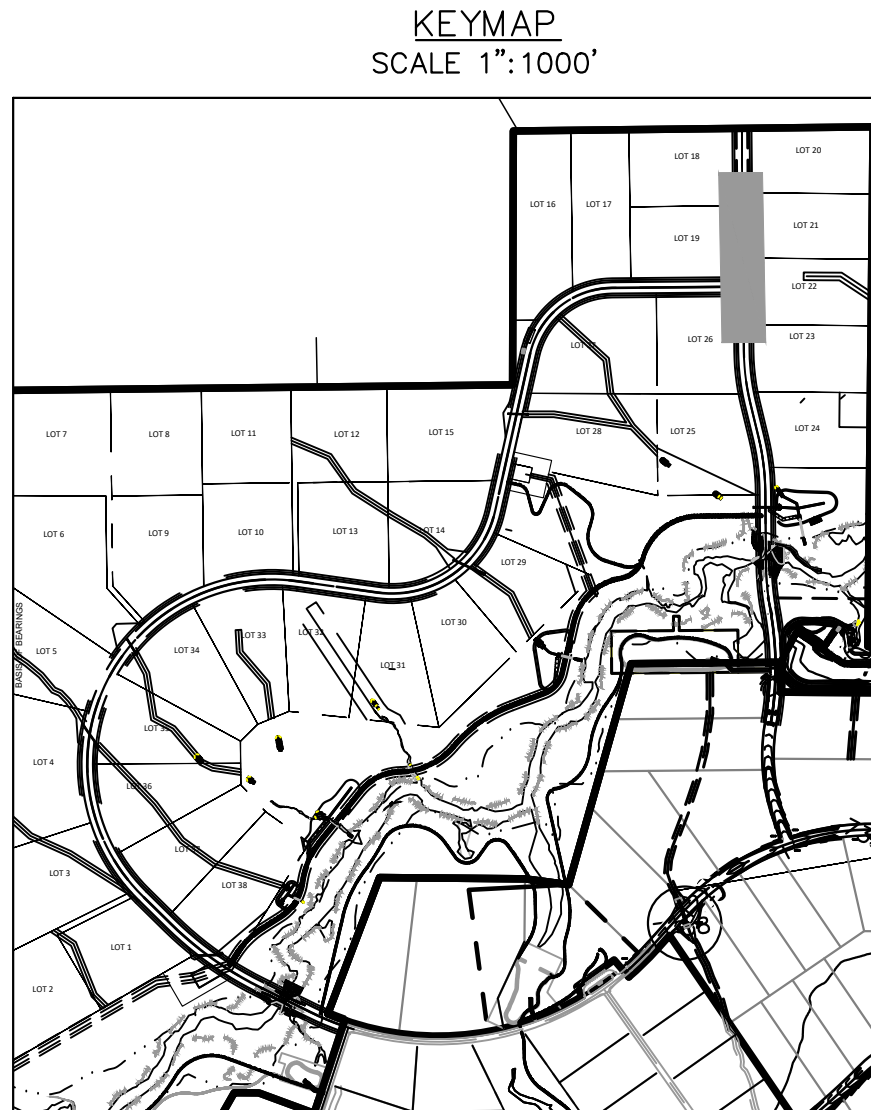
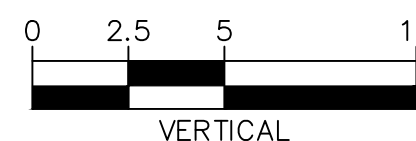
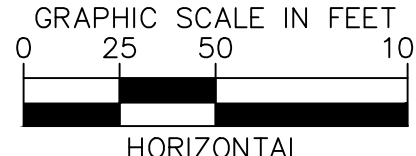
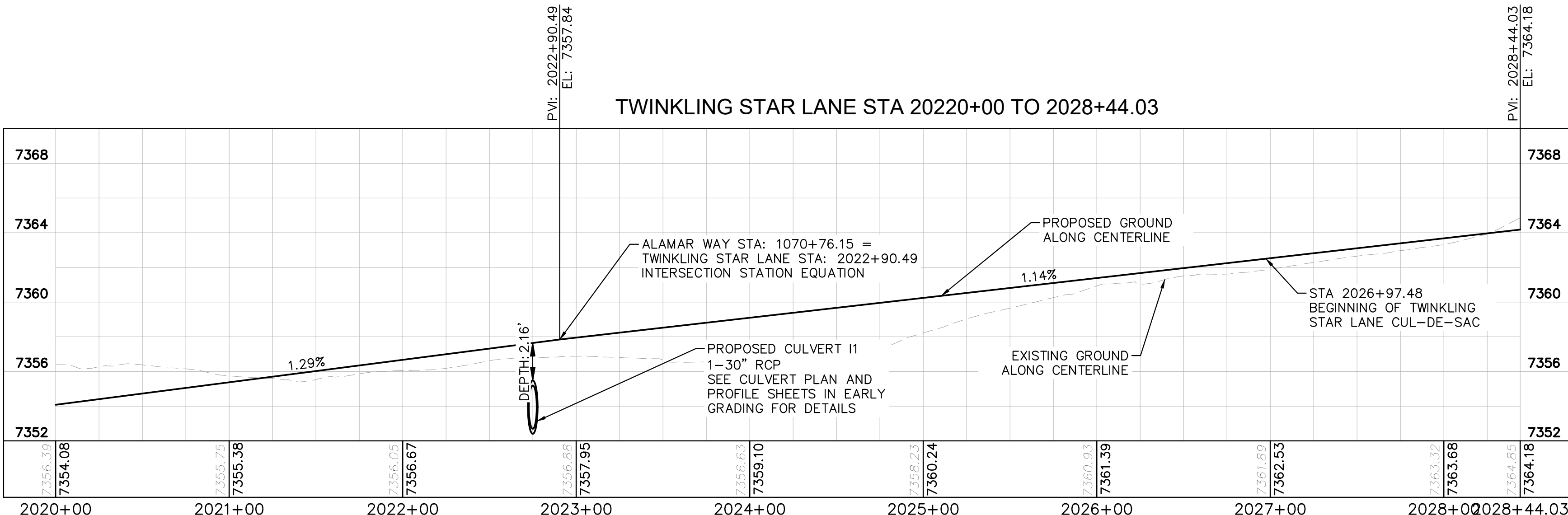
PROJECT NO.
196106001

SHEET











C1.17



TWINKLING STAR LANE STA 20220+00 TO 2028+44.03



LEGEND

- | | |
|---|---|
|  | LOT BOUNDARY LINE |
|  | EXISTING MAJOR CONTOUR |
|  | EXISTING MINOR CONTOUR |
|  | PROPOSED MAJOR CONTOUR |
|  | PROPOSED MINOR CONTOUR |
|  | STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS) |
|  | PROPOSED STORM LINE |
|  | UTILITY EASEMENT |
|  | R.O.W. LINE |
|  | EDGE OF PAVEMENT |

NOTES

1. SEE SHEET C1.2 FOR TYPICAL ROADWAY SECTIONS AND
ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
TWINKLING STAR PLAN AND PROFILE

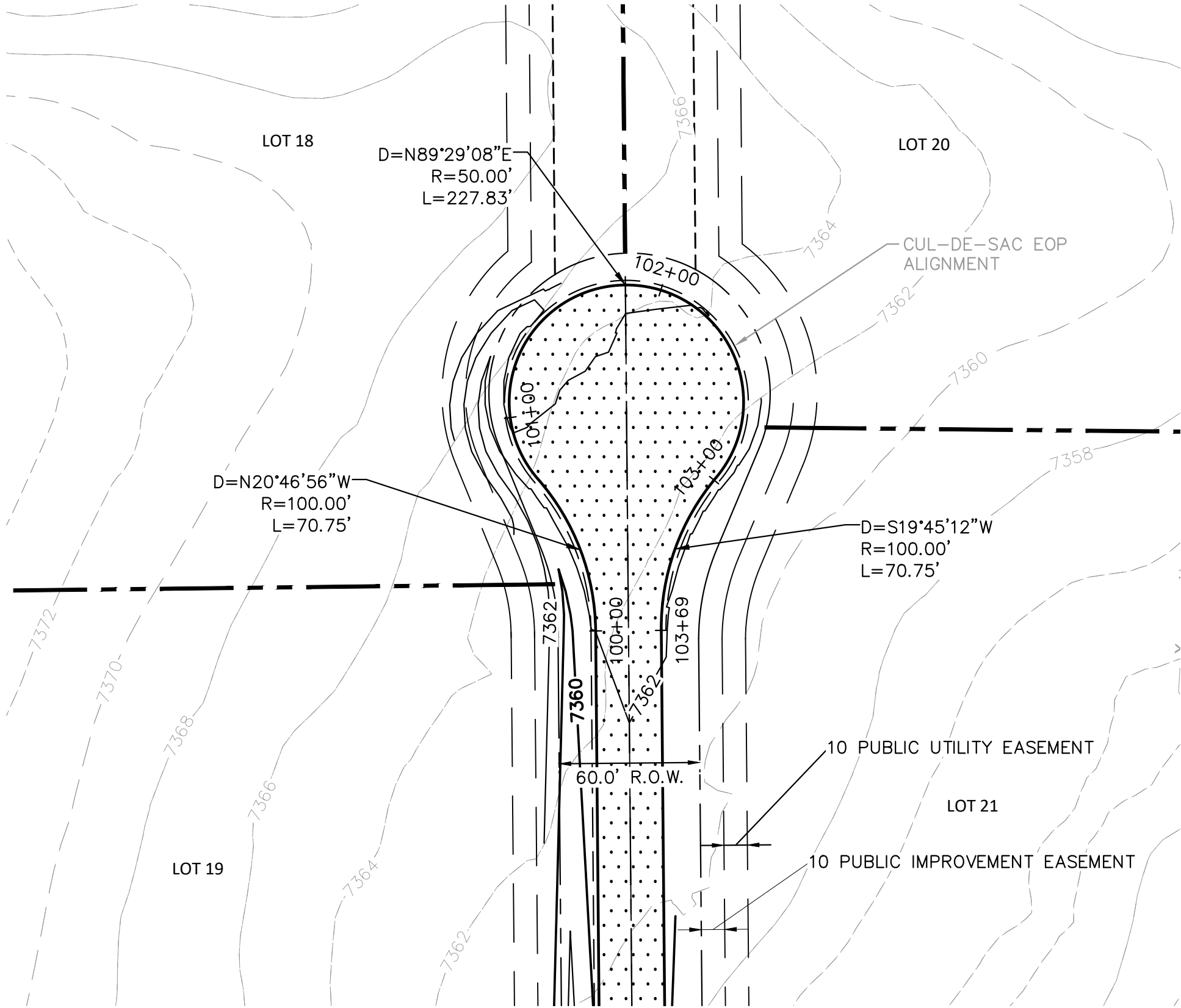
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PROJECT NO.
196106001

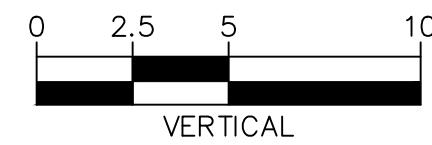
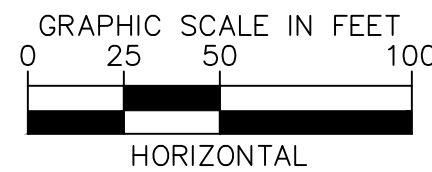
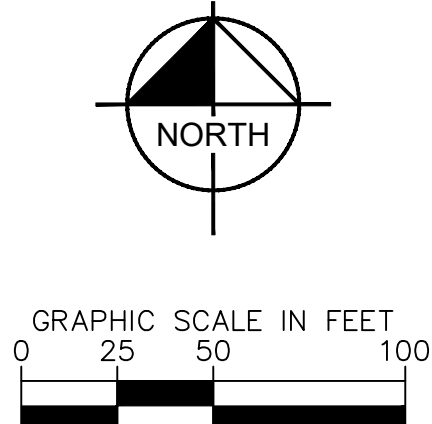
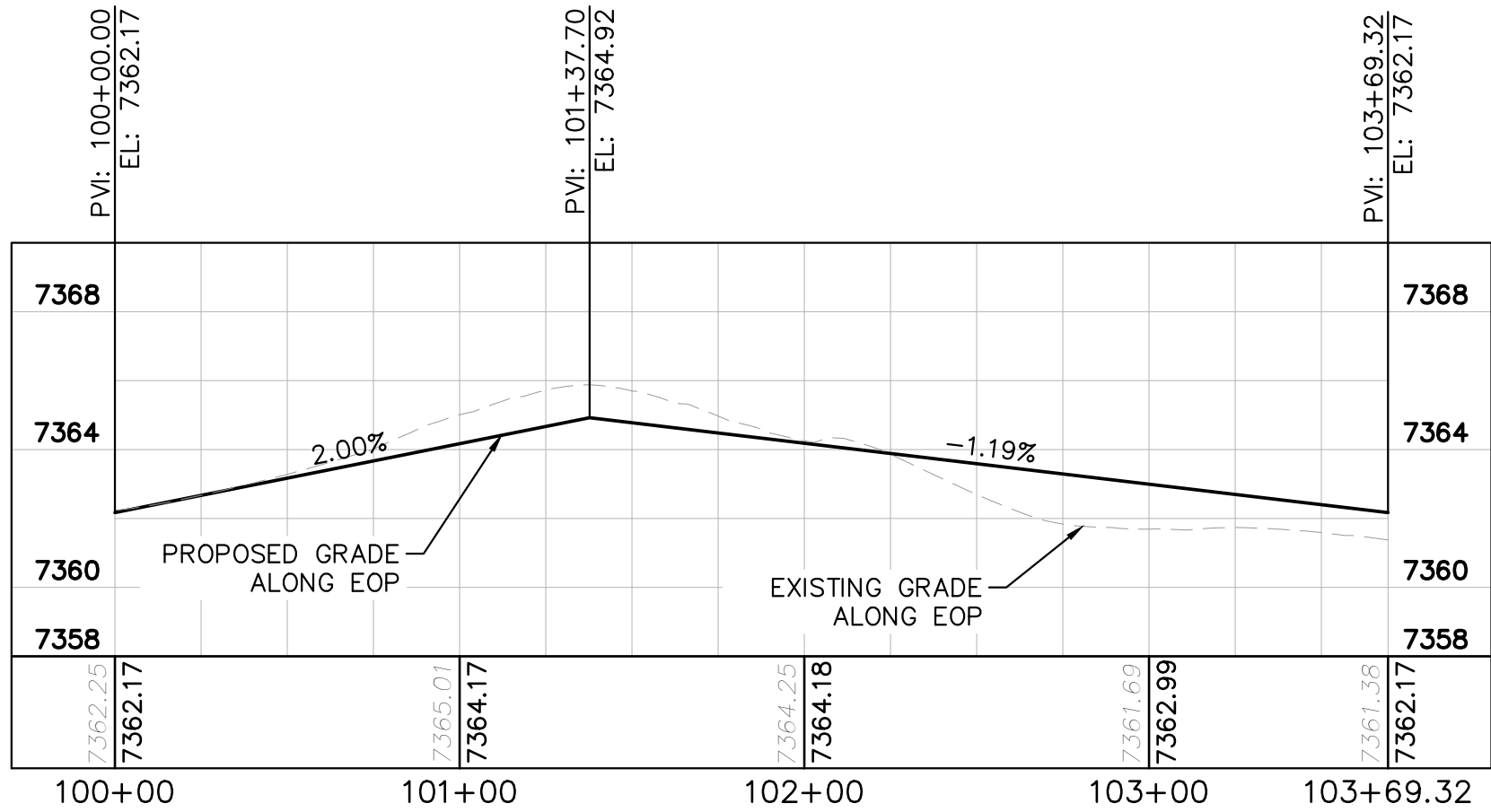
SHEET
C1.18

Kimley»Horn
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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180











DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/2021

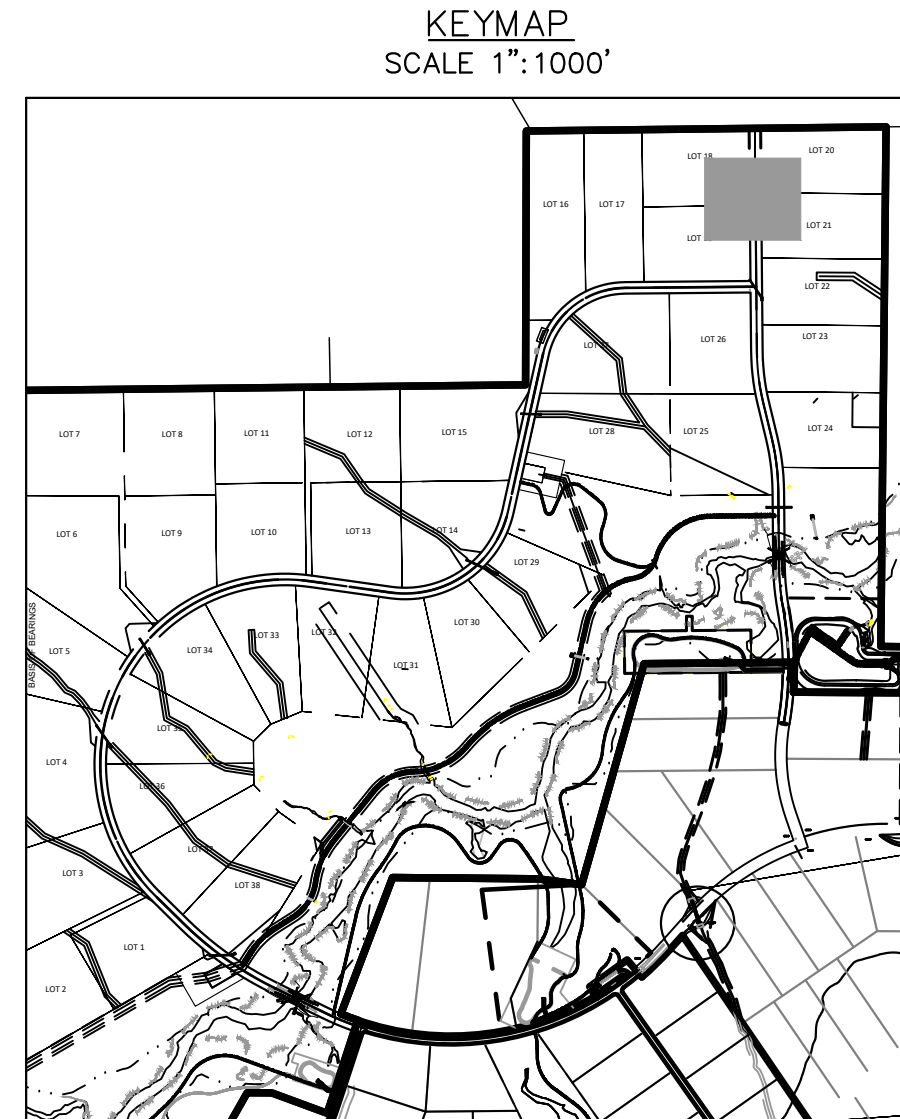


TWINKLING STAR LANE CUL-DE-SAC



LEGEND

	LOT BOUNDARY LINE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
	PROPOSED STORM LINE
	UTILITY EASEMENT
	R.O.W. LINE
	EDGE OF PAVEMENT



WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CUL-DE-SAC PLAN AND PROFILE

Kimley»Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
12 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

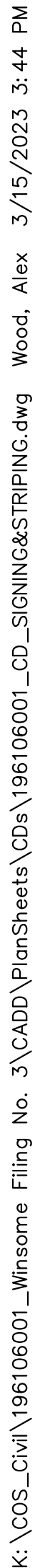
DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/2022

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PROJECT NO.
196106001

SHEET
C1.19

[illegible]



\\COS_Civil\196106001_Winsome Filing No. 3\CADD\PlanSheets\CDs\196106001_CD_CUT FILL.dwg Wood, Alex 3/15/2023 3:44 PM



BASIS OF REARINGS

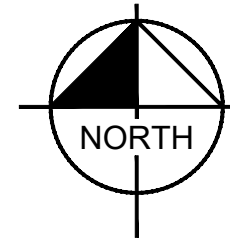
LEGEND



CUT AREA

FILL AREA

TOTAL CUT: 81605 CY
TOTAL FILL: 84157 CY
NET: 2552 CY (FILL)*
*1.15 FILL FACTOR APPLIED



GRAPHIC SCALE IN FEET

0 125 250 500

A horizontal scale bar with four segments. The first segment (0 to 125) is white. The second segment (125 to 250) is black. The third segment (250 to 375) is white. The fourth segment (375 to 500) is black. The segments are labeled 0, 125, 250, and 500 at their respective positions.

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
E DEVELOPMENT GESC PL
CLIT AND EIL | MAP

Kimley»»Horn

2022 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 451-1100

DESIGNED BY: K
DRAWN BY: A
CHECKED BY: K
DATE: 12/10/20

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Kimley»Horn
Kimley-Horn and Associates, Inc.

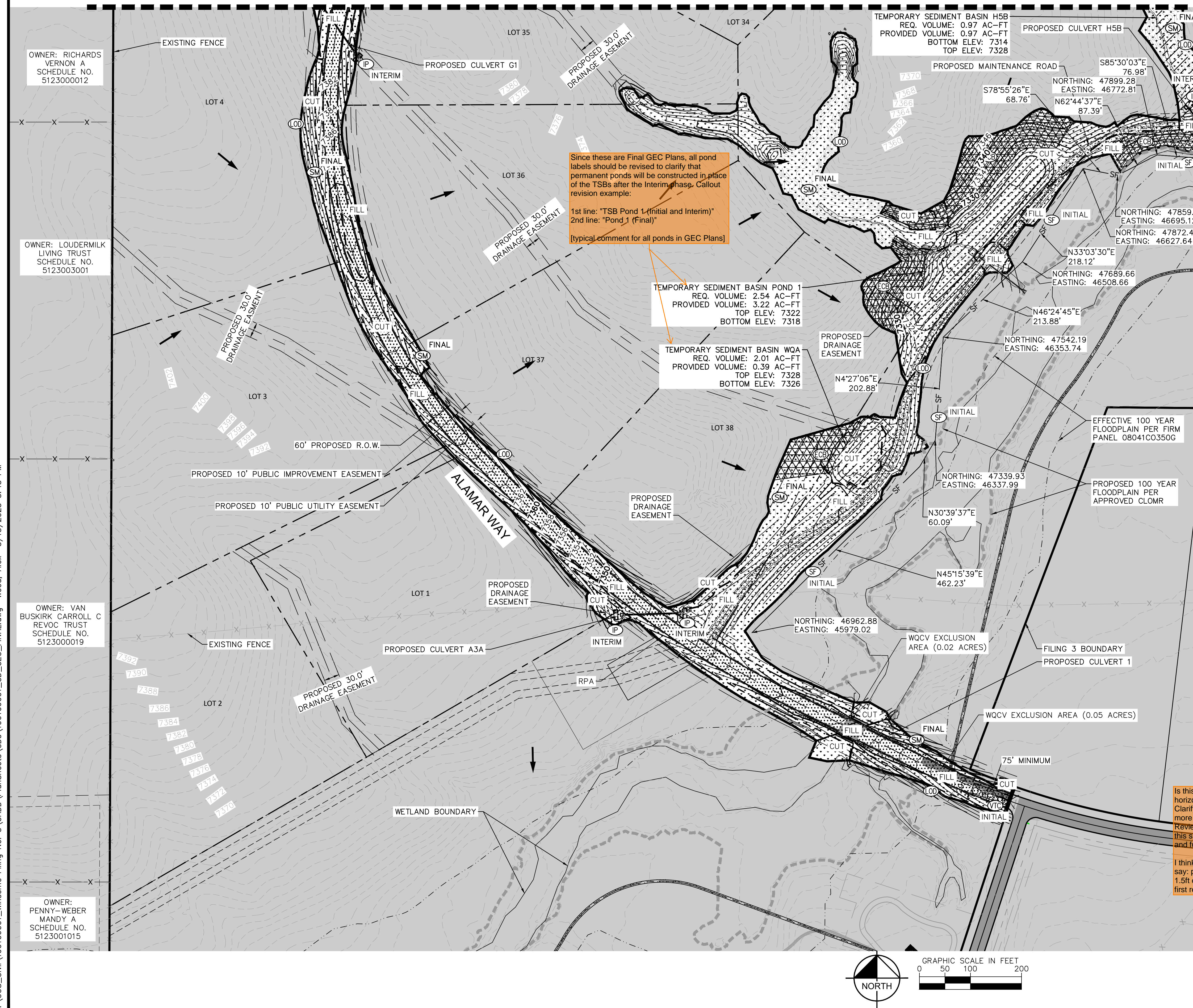
PROJECT N
196106001

SHEP

C1.2

2	RESUBMITTAL #2	KRK 11/30/22	KRK
1	RESUBMITTAL #1	KRK 8/30/22	KRK

MATCH LINE: SEE SHEET C1.23 FOR CONTINUATION



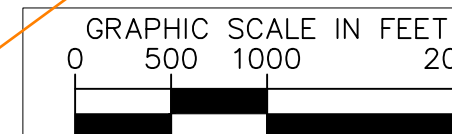
LEGEND

- | | |
|--|--|
| | LOT BOUNDARY LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | (LOD) LIMITS OF CONSTRUCTION/DISTURBANCE |
| | (CF) CONSTRUCTION FENCE |
| | (SF) SILT FENCE |
| | CUT/FILL DEMARCATION |
| | (SP) SOIL STOCKPILE |
| | (SSA) STABILIZED STAGING AREA |
| | (VTC) VEHICLE TRACKING CONTROL |
| | GRAVEL MAINTENANCE ROAD |
| | TEMPORARY SEDIMENT BASIN |
| | (ECB) EROSION CONTROL BLANKET |
| | (SM) PERMANENT SEEDING/MULCHING |
| | ASPHALT ROADWAY |
| | (CWA) CONCRETE WASHOUT |
| | EXISTING FLOW DIRECTION ARROW |
| | (IP) INLET PROTECTION |

NOTES

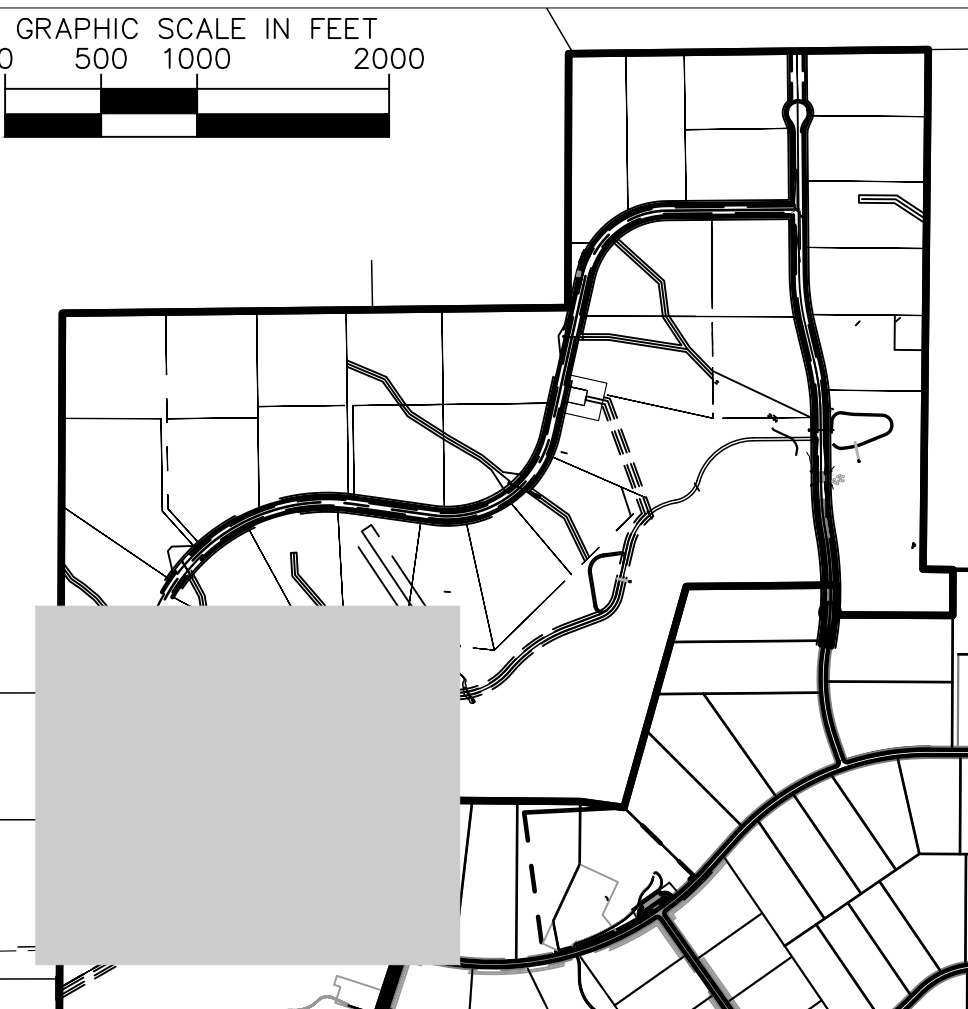
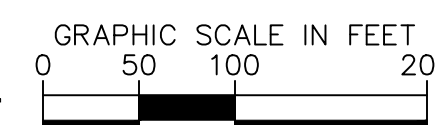
1. THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
2. ADJACENT STREETS SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES.
3. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
4. PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
5. CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS (STRAW-SINGLE NET EROSION CONTROL BLANKETS AND OPEN WEAVE TEXTILES) ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.
6. CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITH OWNER REQUIREMENTS.
7. ALL WORK IN THE HODGEN ROAD AND MERIDIAN ROAD ROW REQUIRES A ROW PERMIT FROM EL PASO COUNTY. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL NECESSARY ROW PERMITS.
8. SIGNAGE IS TO BE INSTALLED PRIOR TO COMMENCEMENT OF ONSITE GRADING AND CONSTRUCTION ACTIVITIES.
9. DEMOLITION, REMOVAL, OVEREXCAVATION AND SOIL TREATMENT SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS AS NOTED IN THE APPROVED PROJECT GEOTECHNICAL REPORT.
10. VEGETATION COVER IS ABOUT 90% CONSISTING OF NATIVE GRASSES, TREES AND SHRUBS, BASED ON VISUAL INSPECTION
11. NO ASPHALT OR CONCRETE BATCH PLANTS SHALL BE USED FOR THIS PROJECT.
12. ROCK CHECK DAMS (CD) TO BE PLACED IN TEMPORARY AND PERMANENT DRAINAGE SWALES AND ROADSIDE DITCHES PER TABLE BELOW. ROCK CD'S TO BE SUBSTITUTED FOR SEDIMENT CONTROL LOGS (SCL) OR STRAW WADDLES. CONTRACTOR TO DETERMINE LOCATION OF CD WITHIN THE ROADSIDE DITCH (SEE TABLE FOR MIN. SPACING REQUIREMENTS) IN COORDINATION WITH COUNTY INSPECTORS.

<u>SIZE OF SCL</u> <u>(STRAW WADDLE)</u>	<u>SPACING (PER VERTICAL FEET</u> <u>OF FALL)</u>
9 INCH	1.5 FEET
12 INCH	2 FEET
16 INCH	2.67 FEET



Is this supposed to be horizontal spacing? Clarify so that this table is more clear. See my Review #1 comments on this sheet for reference and further clarification.

I think that you're trying to say: place a waddle every 1.5ft of vertical fall (for the first row).



NO.	REVISION	BY	DATE	APPR.
2	RESUBMITTAL #2	KRK	11/30/22	KRK
1	RESUBMITTAL #1	KRK	8/30/22	KRK

Kimley»Horn
2022 KIMLEY-HORN AND ASSOCIATES, INC.

2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/10/2021

**WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT GESC PLAN
GEC FINAL PLAN**

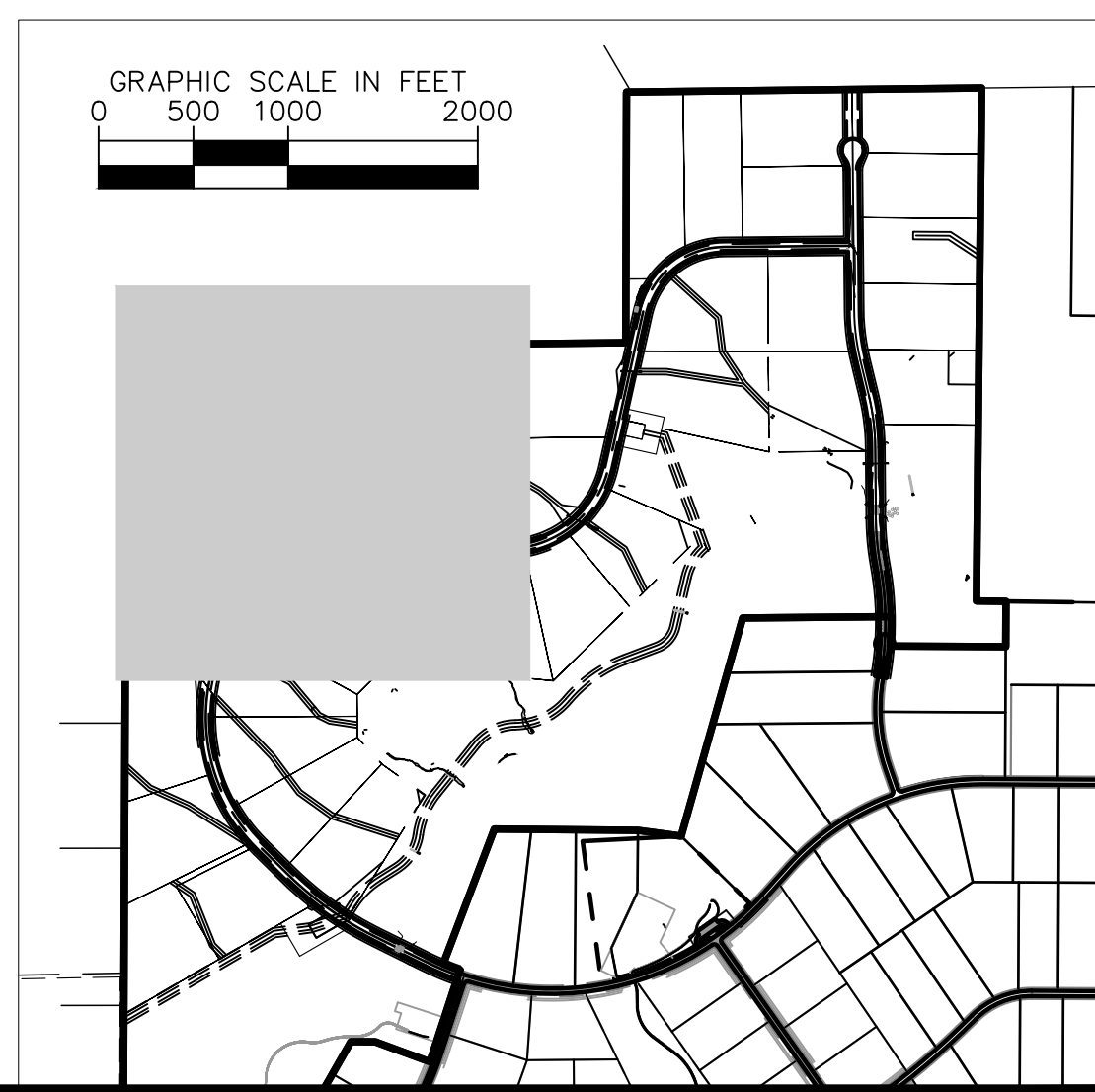
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Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO. 196106001
SHEET

C1.22 |

Label Runoff Reduction areas on all GEC Plans

MATCH LINE: SEE SHEET C1.25 FOR CONTINUATION



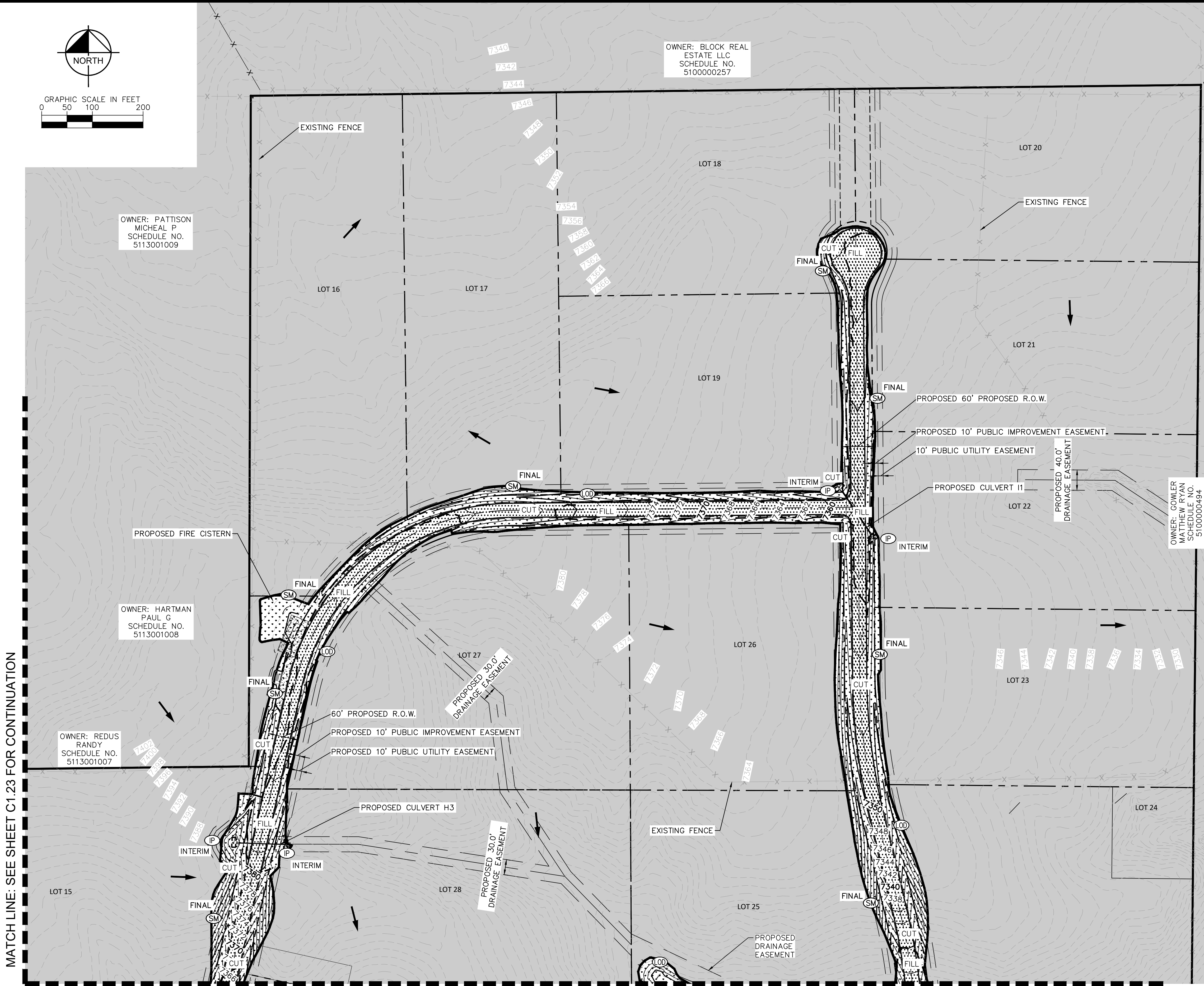
PROJECT NO.
196106001

SHEET

C1.23

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MATCH LINE: SEE SHEET C1.23 FOR CONTINUATION



MATCH LINE: SEE SHEET C1.25 FOR CONTINUATION

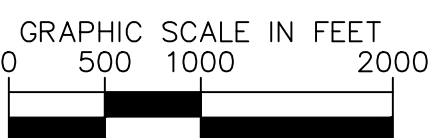
LEGEND

- XXXX EXISTING MAJOR CONTOUR
- XXXX EXISTING MINOR CONTOUR
- XXXX PROPOSED MAJOR CONTOUR
- XXXX PROPOSED MINOR CONTOUR
- LOD LIMITS OF CONSTRUCTION/DISTURBANCE
- CF CONSTRUCTION FENCE
- SF SILT FENCE
- CUT/FILL DEMARCATION
- SP SOIL STOCKPILE
- SSA STABILIZED STAGING AREA
- UTC VEHICLE TRACKING CONTROL
- GRAVEL MAINTENANCE ROAD
- TEMPORARY SEDIMENT BASIN
- ECB EROSION CONTROL BLANKET
- SM PERMANENT SEEDING/MULCHING
- AR ASPHALT ROADWAY
- CWA CONCRETE WASHOUT
- IF INLET PROTECTION

NOTES

- THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- ADJACENT STREETS SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES.
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
- PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
- CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS (STRAW-SINGLE NET EROSION CONTROL BLANKETS AND OPEN WEAVE TEXTILES) ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.
- CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITH OWNER REQUIREMENTS.
- ALL WORK IN THE HODGEN ROAD AND MERIDIAN ROAD ROW REQUIRES A ROW PERMIT FROM EL PASO COUNTY. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL NECESSARY ROW PERMITS.
- SILT FENCE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ONSITE GRADING AND CONSTRUCTION ACTIVITIES.
- DEMOLITION, REMOVAL, OVEREXCAVATION AND SOIL TREATMENT SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS AS NOTED IN THE APPROVED PROJECT GEOTECHNICAL REPORT.
- VEGETATION COVER IS ABOUT 90% CONSISTING OF NATIVE GRASSES, TREES AND SHRUBS, BASED ON VISUAL INSPECTION.
- NO ASPHALT OR CONCRETE BATCH PLANTS SHALL BE USED FOR THIS PROJECT.
- ROCK CHECK DAMS (CD) TO BE PLACED IN TEMPORARY AND PERMANENT DRAINAGE SWALES AND ROADSIDE DITCHES PER TABLE BELOW. ROCK CD'S TO BE SUBSTITUTED FOR SEDIMENT CONTROL LOGS (SCL) OR STRAW WADDLES. CONTRACTOR TO DETERMINE LOCATION OF CD WITHIN THE ROADSIDE DITCH (SEE TABLE FOR MIN. SPACING REQUIREMENTS) IN COORDINATION WITH COUNTY INSPECTORS.

SIZE OF SCL (STRAW WADDLE)	SPACING (PER VERTICAL FEET OF FALL)
9 INCH	1.5 FEET
12 INCH	2 FEET
16 INCH	2.67 FEET



Kimley»Horn

DESIGNED BY: KRK
DRAWN BY: AUL
CHECKED BY: KRK
DATE: 12/10/2021

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT GESC PLAN
GEC FINAL PLAN

PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
Kimley»Horn
KimleyHorn and Associates, Inc.

PROJECT NO.
196106001
SHEET
C1.24

NO.	REVISION	DATE	BY
2	RESUBMITTAL #2	KRK 11/30/22	KRK
1	RESUBMITTAL #1	KRK 8/30/22	KRK
			APPR



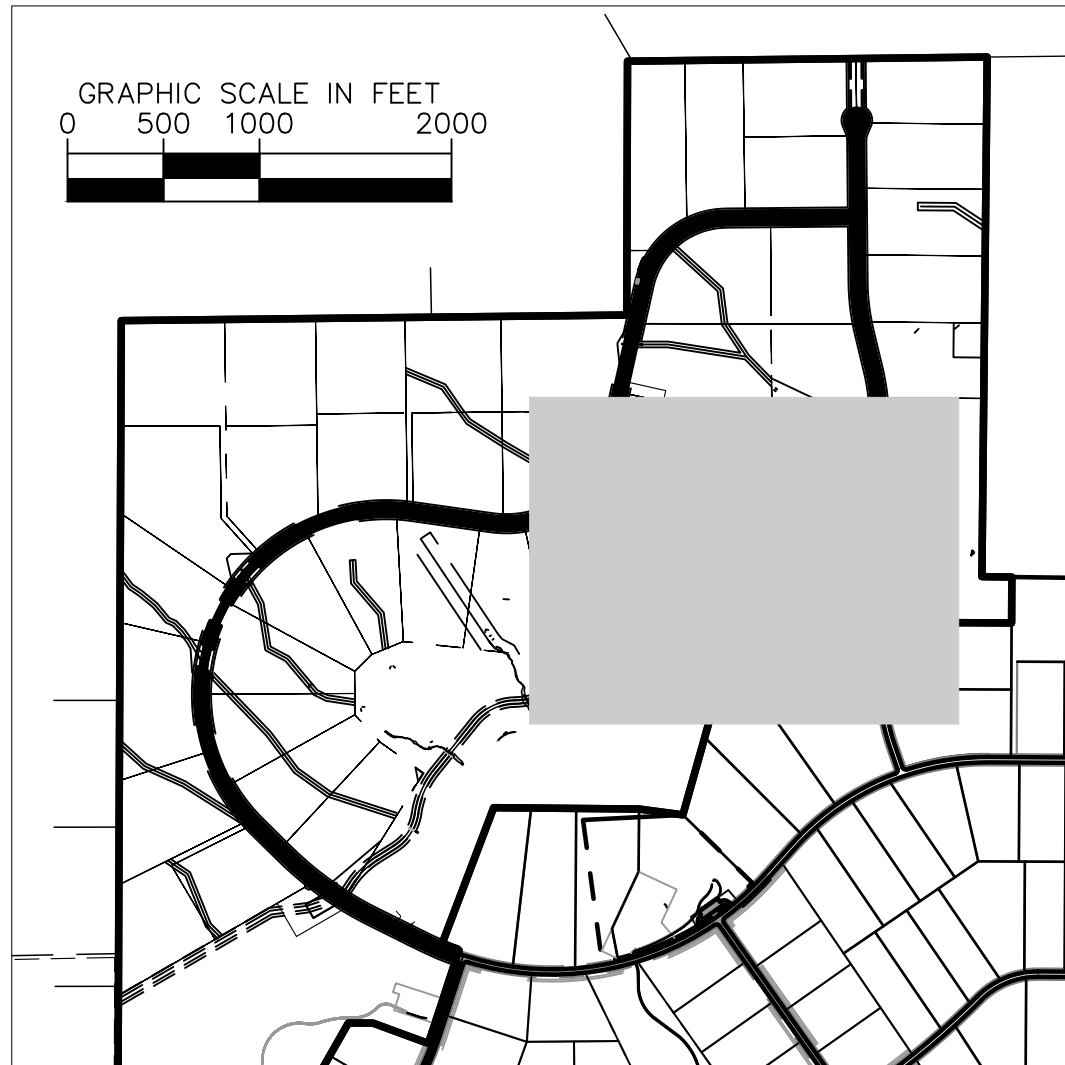
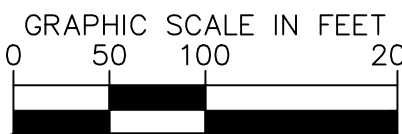
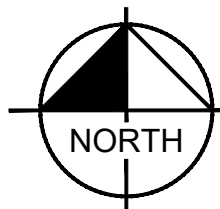
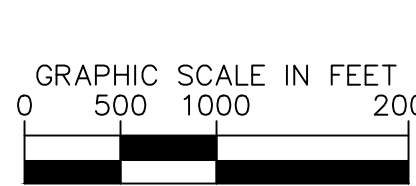
MATCH LINE: SEE SHEET C1.24 FOR CONTINUATION

- # LEGEND
- | | |
|--|--|
| | LOT BOUNDARY LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | LIMITS OF CONSTRUCTION/DISTURBANCE |
| | (CF) CONSTRUCTION FENCE |
| | (SF) SILT FENCE |
| | CUT/FILL DEMARCATION |
| | (SP) SOIL STOCKPILE |
| | (SSA) STABILIZED STAGING AREA |
| | (VTC) VEHICLE TRACKING CONTROL |
| | GRAVEL MAINTENANCE ROAD |
| | TEMPORARY SEDIMENT BASIN |
| | (ECB) EROSION CONTROL BLANKET |
| | (SM) PERMANENT SEEDING/MULCHING |
| | ASPHALT ROADWAY |
| | (CWA) CONCRETE FLOWOUT |
| | EXISTING FLOW DIRECTION ARROW |
| | (IP) INLET PROTECTION |

NOTES

1. THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
2. ADJACENT STREETS SHALL BE KEPT CLEAN AND FREE OF SEDIMENT AND/OR DEBRIS AT ALL TIMES.
3. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
4. PERMANENT STABILIZATION (PS) MAY BE USED WITHIN AREAS OF TEMPORARY STABILIZATION (TS) AT THE CONTRACTOR'S DISCRETION. STABILIZATION SHALL BE APPLIED IN ACCORDANCE WITH APPLICABLE TEMPORARY STABILIZATION SEQUENCING REQUIREMENTS.
5. CONTRACTOR SHALL UTILIZE ROLLED EROSION CONTROL PRODUCTS (STRAW-SINGLE NET EROSION CONTROL BLANKETS AND OPEN WEAVE TEXTILES) ON ALL SLOPES 3H:1V OR GREATER TO ACHIEVE REQUIRED STABILIZATION.
6. CONTRACTOR SHALL MAINTAIN ACCEPTABLE EROSION CONTROL PRACTICES WITHIN THE ANTICIPATED LIMITS OF CONSTRUCTION IDENTIFIED HEREIN. BEST MANAGEMENT PRACTICES AND STABILIZATION SHALL BE COMPLETED AS IDENTIFIED HEREIN IN ACCORDANCE WITH OWNER REQUIREMENTS.
7. ALL WORK WITHIN THE HOME ROAD AND MERIDIAN ROAD ROW REQUIRES A ROW PERMIT FROM EL PASO COUNTY. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL NECESSARY ROW PERMITS.
8. SILT FENCE TO BE INSTALLED PRIOR TO COMMENCEMENT OF ONSITE GRADING AND CONSTRUCTION ACTIVITIES.
9. DEMOLITION, REMOVAL, OVEREXCAVATION AND SOIL TREATMENT SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATIONS AS NOTED IN THE APPROVED PROJECT GEOTECHNICAL REPORT.
10. VEGETATION COVER IS ABOUT 90% CONSISTING OF NATIVE GRASSES, TREES AND SHRUBS, BASED ON VISUAL INSPECTION
11. NO ASPHALT OR CONCRETE BATCH PLANTS SHALL BE USED FOR THIS PROJECT.
12. ROCK CHECK DAMS (CD) TO BE PLACED IN TEMPORARY AND PERMANENT DRAINAGE SWALES AND ROADSIDE DITCHES PER TABLE BELOW. ROCK CD'S TO BE SUBSTITUTED FOR SEDIMENT CONTROL LOGS (SGL) OR STRAW WADDLES. CONTRACTOR TO DETERMINE LOCATION OF CD WITHIN THE ROADSIDE DITCH (SEE TABLE FOR MIN. SPACING REQUIREMENTS) IN COORDINATION WITH COUNTY INSPECTORS.

<u>SIZE OF SCL</u> <u>(STRAW WADDLE)</u>	<u>SPACING (PER VERTICAL FEET</u> <u>OF FALL)</u>
9 INCH	1.5 FEET
12 INCH	2 FEET
16 INCH	2.67 FEET



Kimley»Horn

DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/10/2021

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT GESC PLAN
GEC FINAL PLAN

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Kimley-Horn and Associates, Inc.

PROJECT NO.
196106001

SHEET

C1.25

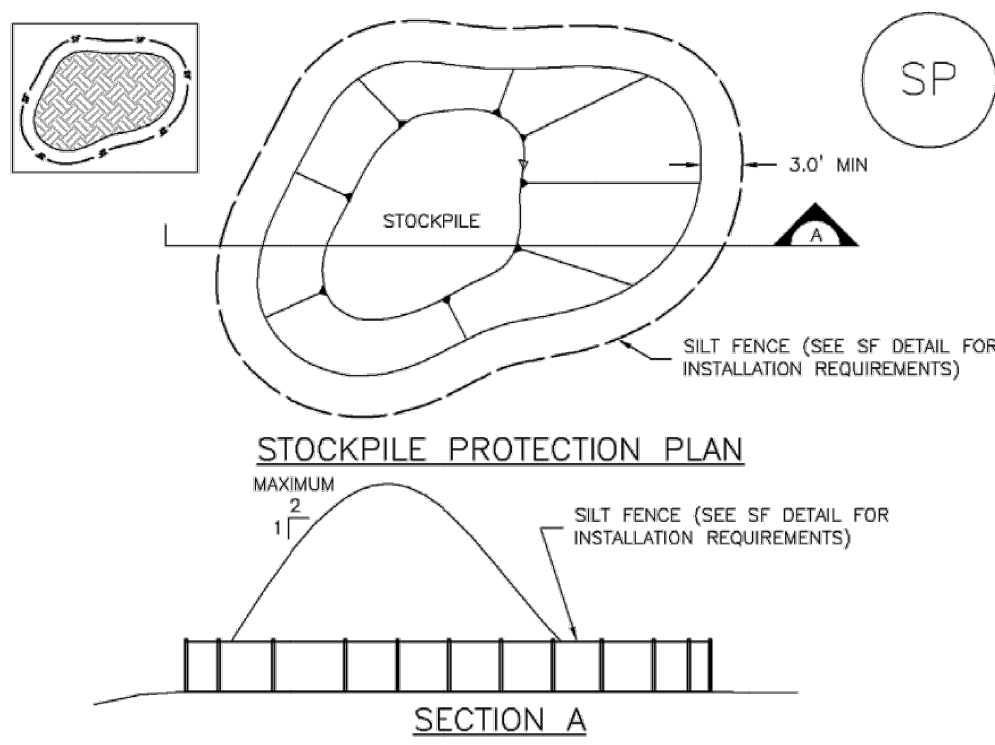
Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Species* (Common name)	Growth Season*	Pounds of Pure Live Seed (PLS)/acre*	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	½
5. Millet	Warm	3 - 15	½ - ¾
6. Sudangrass	Warm	5 - 10	½ - ¾
7. Sorghum	Warm	5 - 10	½ - ¾
8. Winter wheat	Cool	20-35	1 - 2
9. Winter barley	Cool	20-35	1 - 2
10. Winter rye	Cool	20-35	1 - 2
11. Triticale	Cool	25-40	1 - 2

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

^c Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

Stockpile Management (SP) **MM-2**



1. SEE PLAN FOR STOCKPILE:
 - LOCATION OF STOCKPILE.
 - TYPE OF STOCKPILE PROTECTION.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILENT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS MAY BE USED IF THEY ARE PROVEN TO BE EFFECTIVE AND ARE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE: WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE STOCKPILE HEIGHT, THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE MATERIAL FROM THE DOWNWIND PART MATERIAL FROM THE STOCKPILE SURF OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING (TYPICALLY FOR MORE THAN 60 DAYS). STOCKPILE SHOULD BE SEEDDED AND MULCHED WITH A TEMPORARY GRASS COVER OVER THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS OF STOCKPILE PLACEMENT). STOCKPILE SHOULD BE SEEDDED AND MULCHED IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOMINANT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

Common ^a Name	Botanical Name	Growth Season ^a	Growth Form	Seeds/ Pound	Pounds of PLS/acre
Alkali Sali Seed Mix					
Alkali sacaton	<i>Sporobolus airoides</i>	Cool	Bunch	1,750,000	0.25
Basin wildrice	<i>Elymus cinereus</i>	Cool	Bunch	165,000	2.5
Sodar streambank wheatgrass	<i>Agropyron riparium 'Soda'</i>	Cool	Sod	170,000	2.5
Jose tall wheatgrass	<i>Agropyron elongatum 'Jose'</i>	Cool	Bunch	79,000	7.0
Arriba western wheatgrass	<i>Agropyron smithi 'Arriba'</i>	Cool	Sod	110,000	5.5
Total					17.75
Fertile Loamy Soil Seed Mix					
Ephraim crested wheatgrass	<i>Agropyron cristatum 'Ephraim'</i>	Cool	Sod	175,000	2.0
Dural hard fescue	<i>Festuca ovina 'duriaculca'</i>	Cool	Bunch	565,000	1.0
Lincoln smooth brome	<i>Bromus inermis leys 'Lincol'</i>	Cool	Sod	130,000	3.0
Sodar streambank wheatgrass	<i>Agropyron riparium 'Soda'</i>	Cool	Sod	170,000	2.5
Arriba western wheatgrass	<i>Agropyron smithi 'Arriba'</i>	Cool	Sod	110,000	7.0
Total					15.5
High Water Table Soil Seed Mix					
Meadow foxtail	<i>Alpecurus pratensis</i>	Cool	Sod	900,000	0.5
Redtop	<i>Agrostis alba</i>	Warm	Open sod	5,000,000	0.25
Reed canarygrass	<i>Phalaris arundinacea</i>	Cool	Sod	68,000	0.5
Lincoln smooth brome	<i>Bromus inermis leys 'Lincol'</i>	Cool	Sod	130,000	3.0
Pathfinder switchgrass	<i>Panicum virgatum 'Pathfinder'</i>	Warm	Sod	389,000	1.0
Alkair tall wheatgrass	<i>Agropyron elongatum 'Alkair'</i>	Cool	Bunch	79,000	5.5
Total					10.75
Transition Turf Seed Mix¹					
Ruebens Canadian bluegrass	<i>Poa compressa 'Ruebens'</i>	Cool	Sod	2,500,000	0.5
Dural hard fescue	<i>Festuca ovina 'duriaculca'</i>	Cool	Bunch	565,000	1.0
Citation perennial ryegrass	<i>Lolium perenne 'Citation'</i>	Cool	Sod	247,000	3.0
Lincoln smooth brome	<i>Bromus inermis leys 'Lincol'</i>	Cool	Sod	130,000	3.0
Total					7.5

MM-2	Stockpile Management (SM)
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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.

STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.

5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

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.

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Common Name	Botanical Name	Growth Season ^a	Growth Form	Seeds/ Pound	Pounds of PLS/Acre
 Sandy Soil Seed Mix					
Blue grama	<i>Bouteloua gracilis</i>	Warm	Sod-forming bunchgrass	825,000	0.5 ^b
Camper little bluestem	<i>Schizachyrium scoparium</i> 'Camper'	Warm	Bunch	240,000	1.0 ^c
Prairie sandreed	<i>Calamovilfa longifolia</i>	Warm	Open sod	274,000	1.0 ^c
Sand dropseed	<i>Sporobolus cryptandrus</i>	Cool	Bunch	5,298,000	0.25 ^d
Vaughn sideots grama	<i>Bouteloua curtipendula</i> 'Vaughn'	Warm	Sod	191,000	2.0 ^e
Arriba western wheatgrass	<i>Agropyron smithii</i> 'Arriba'	Cool	Sod	110,000	5.0 ^f
Total					10.25
 Heavy Clay, Rocky Foothill Seed Mix					
Ephraim crested wheatgrass ^g	<i>Agropyron cristatum</i> 'Ephraim'	Cool	Sod	175,000	1.5 ^h
Oake Intermediate wheatgrass	<i>Agropyron intermedium</i> 'Oake'	Cool	Sod	115,000	5.5 ⁱ
Vaughn sideots grama ^j	<i>Bouteloua curtipendula</i> 'Vaughn'	Warm	Sod	191,000	2.0 ^e
Lincoln smooth brome	<i>Bromus inermis</i> 'Leys	Cool	Sod	130,000	3.0 ^k
Arriba western wheatgrass	<i>Agropyron smithii</i> 'Arriba'	Cool	Sod	110,000	5.0 ^f
Total					17.5

Rolled Erosion Control Products (RECP) **EC-6**

Table RECP-1. ECTC Standard Specification for Temporary Rolled Erosion Control Products
(Adapted from Erosion Control Technology Council 2005)

Product Description	Slope Applications*		Channel Applications*	Minimum Tensile Strength ¹	Expected Longevity
	Maximum Gradient	C Factor ^{2,5}	Max. Shear Stress ^{3,6}		
Mulch Control Nets	5:1 (H:V)	≤0.10 @ 5:1	0.25 lbs/ft ² (12 Pa)	5 lbs/ft (0.073 kN/m)	
Netless Rolled Erosion Control Blankets	4:1 (H:V)	≤0.10 @ 4:1	0.5 lbs/ft ² (24 Pa)	5 lbs/ft (0.073 kN/m)	
Single-net Erosion Control Blankets & Open Weave Textiles	3:1 (H:V)	≤0.15 @ 3:1	1.5 lbs/ft ² (72 Pa)	50 lbs/ft (7.3 kN/m)	Up to 12 months
Double-net Erosion Control Blankets	2:1 (H:V)	≤0.20 @ 2:1	1.75 lbs/ft ² (84 Pa)	75 lbs/ft (1.09 kN/m)	
Mulch Control Nets	5:1 (H:V)	≤0.10 @ 5:1	0.25 lbs/ft ² (12 Pa)	25 lbs/ft (0.36 kN/m)	24 months
Erosion Control Blankets & Open Weave Textiles (slowly degrading)	1.5:1 (H:V)	≤0.25 @ 1.5:1	2.00 lbs/ft ² (96 Pa)	100 lbs/ft (1.45 kN/m)	24 months
Erosion Control Blankets & Open Weave Textiles	1:1 (H:V)	≤0.25 @ 1:1	2.25 lbs/ft ² (108 Pa)	125 lbs/ft (1.82 kN/m)	36 months

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

	Annual Grasses (Numbers in table reference species in Table TS/PS-1)		Perennial Grasses	
Seeding Dates	Warm	Cool	Warm	Cool
January 1–March 15			✓	✓
March 16–April 30	4	1,2,3	✓	✓
May 1–May 15	4		✓	
May 16–June 30	4,5,6,7			
July 1–July 15	5,6,7			
July 16–August 31				
September 1–September 30		8,9,10,11		
October 1–December 31			✓	✓

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

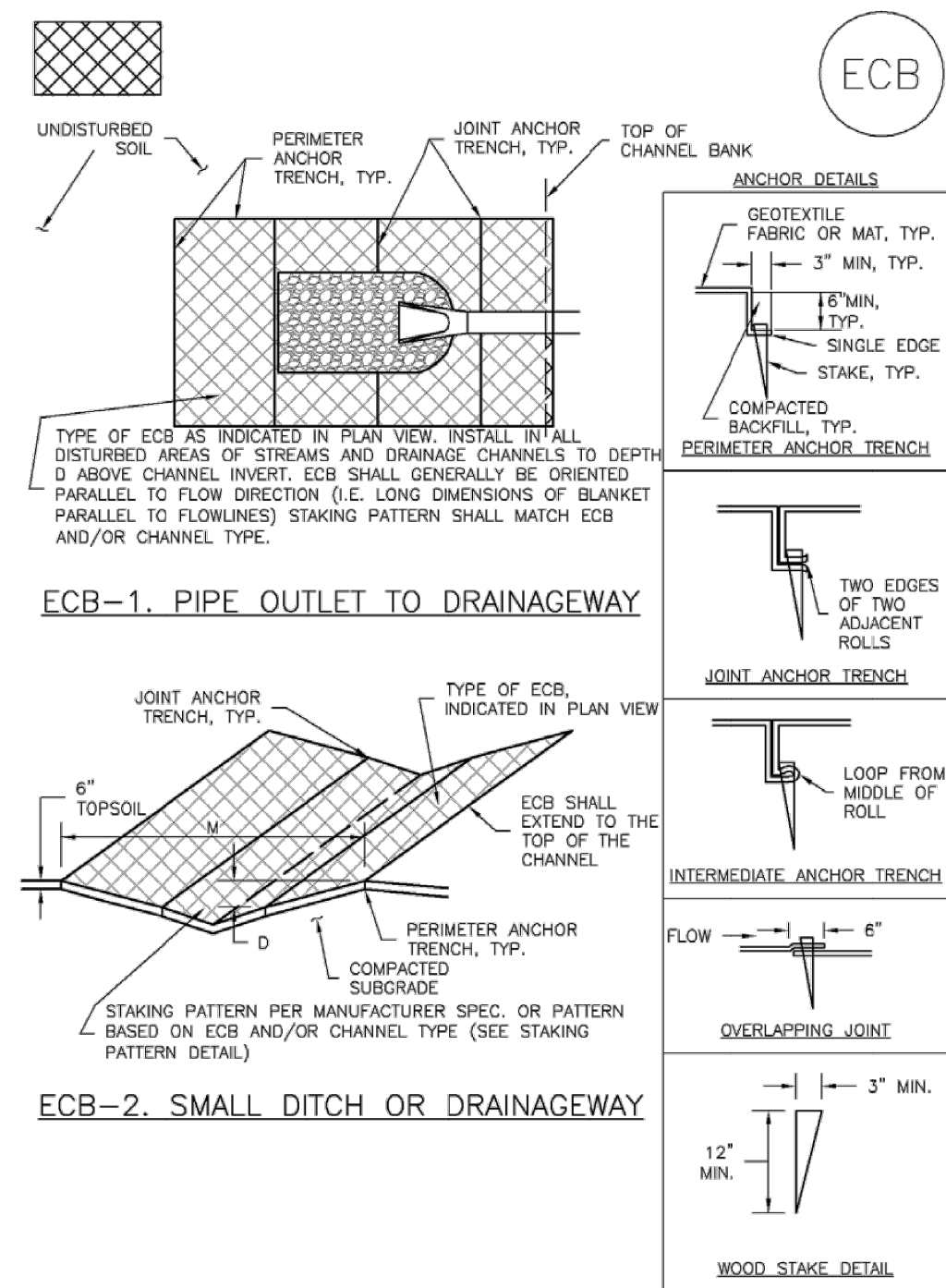
Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

EC-6 Rolled Erosion Control Products (RECP)



DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/2021

**SOME FILING NO. 3
SSO COUNTY, COLORADO
STRUCTION DOCUMENTS
GEC DETAILS**

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Kimley-Horn and Associates, Inc.

PROJECT NO.
196106001

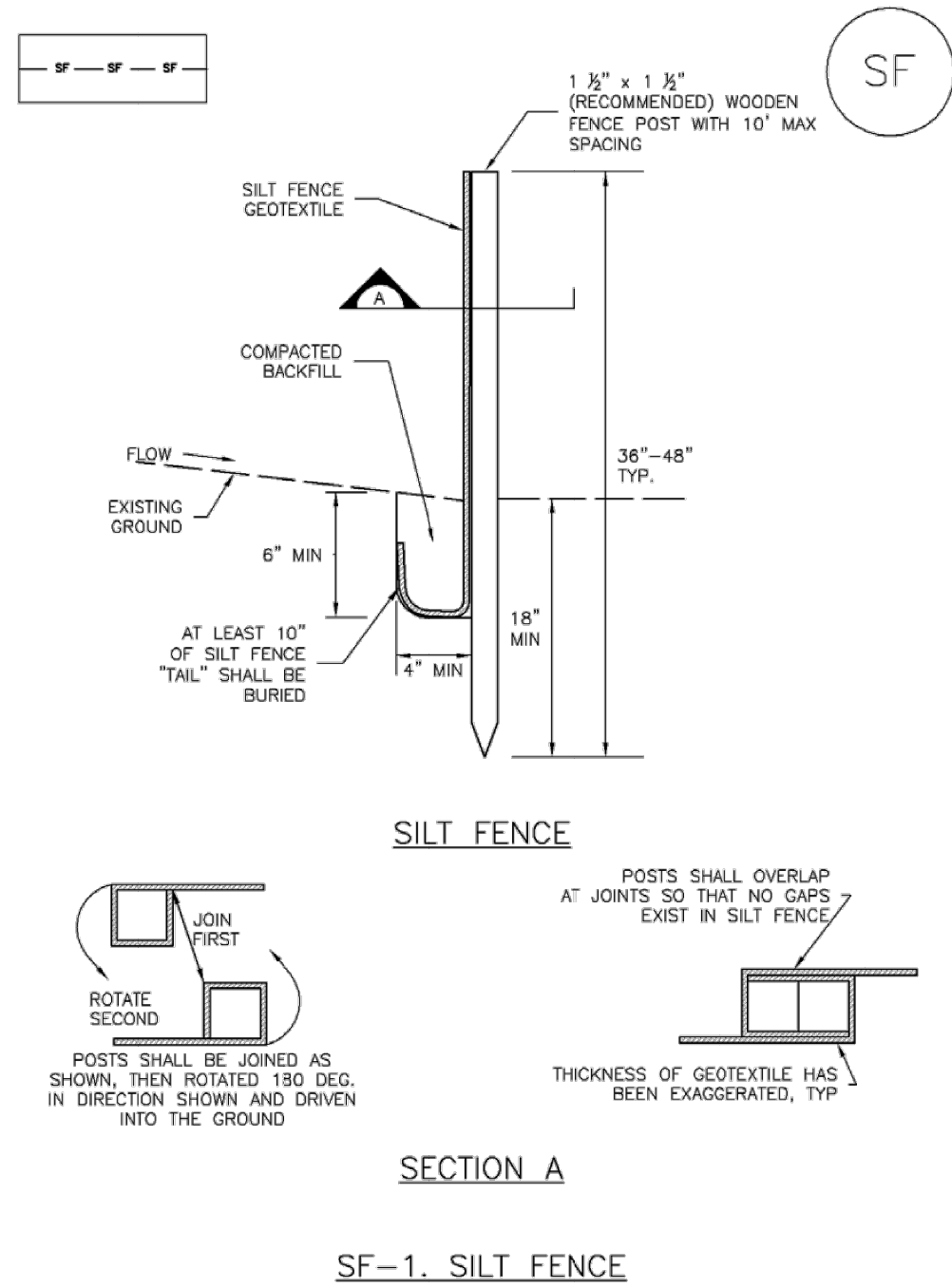
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Silt Fence (SF)

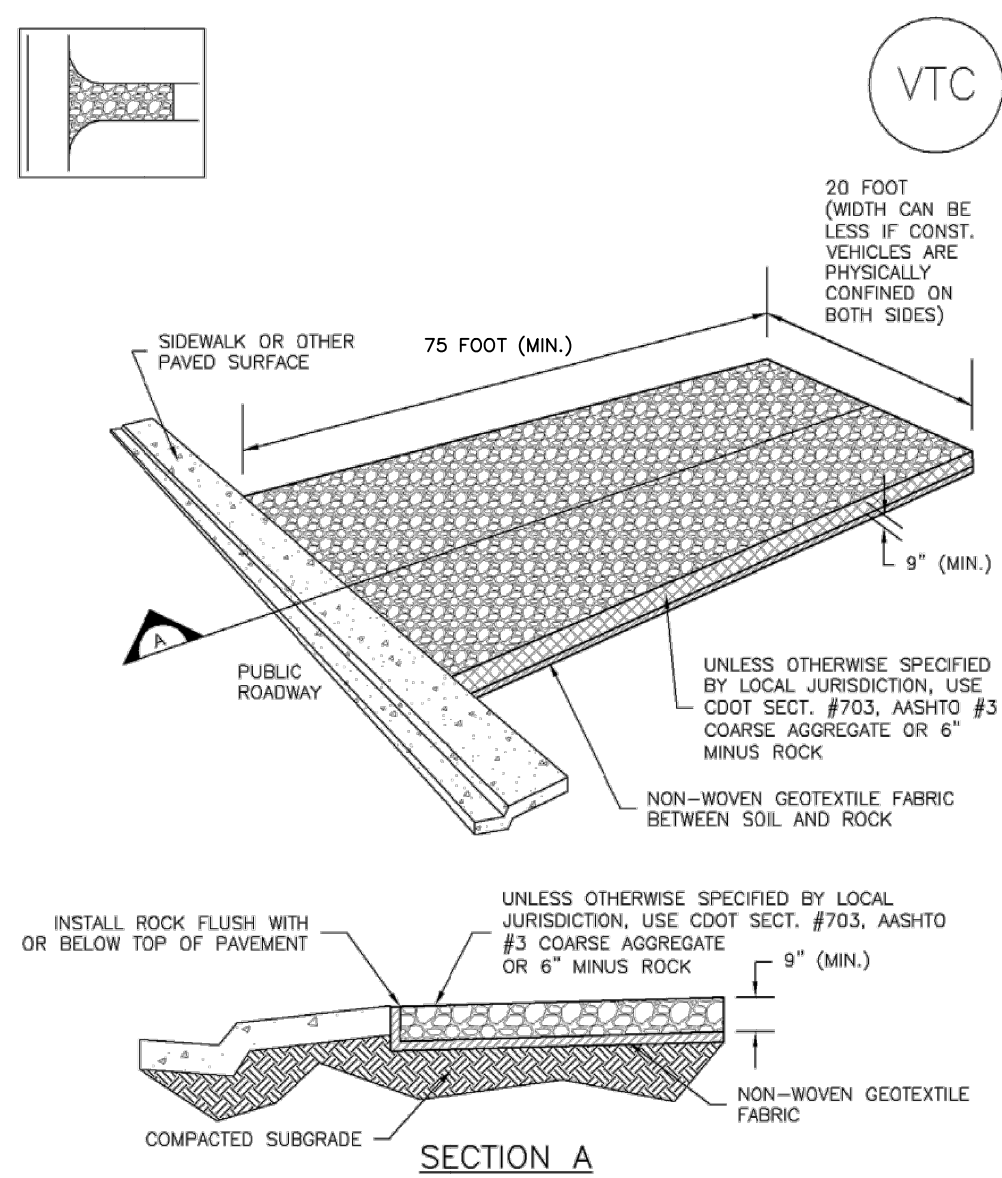
SC-1



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

Vehicle Tracking Control (VTC)

SM-4



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

SC-1

Silt Fence (SF)

- SILT FENCE INSTALLATION NOTES**
1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
 2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
 3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
 4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
 5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
 6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
 7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- SILT FENCE 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 SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
 5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
 6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
 7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAIL ADAPTED FROM TOWN OF PUEBLO, COLORADO AND CITY OF AURORA, 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.

SF-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

SM-4

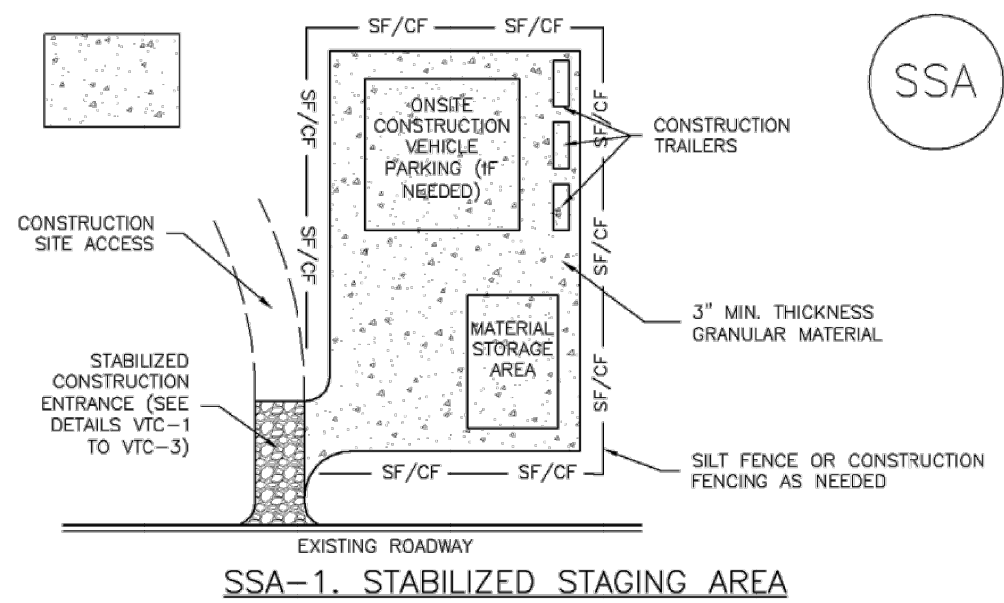
Vehicle Tracking Control (VTC)

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**
1. SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
 - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
 2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT 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 TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- 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 CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Stabilized Staging Area (SSA)

SM-6

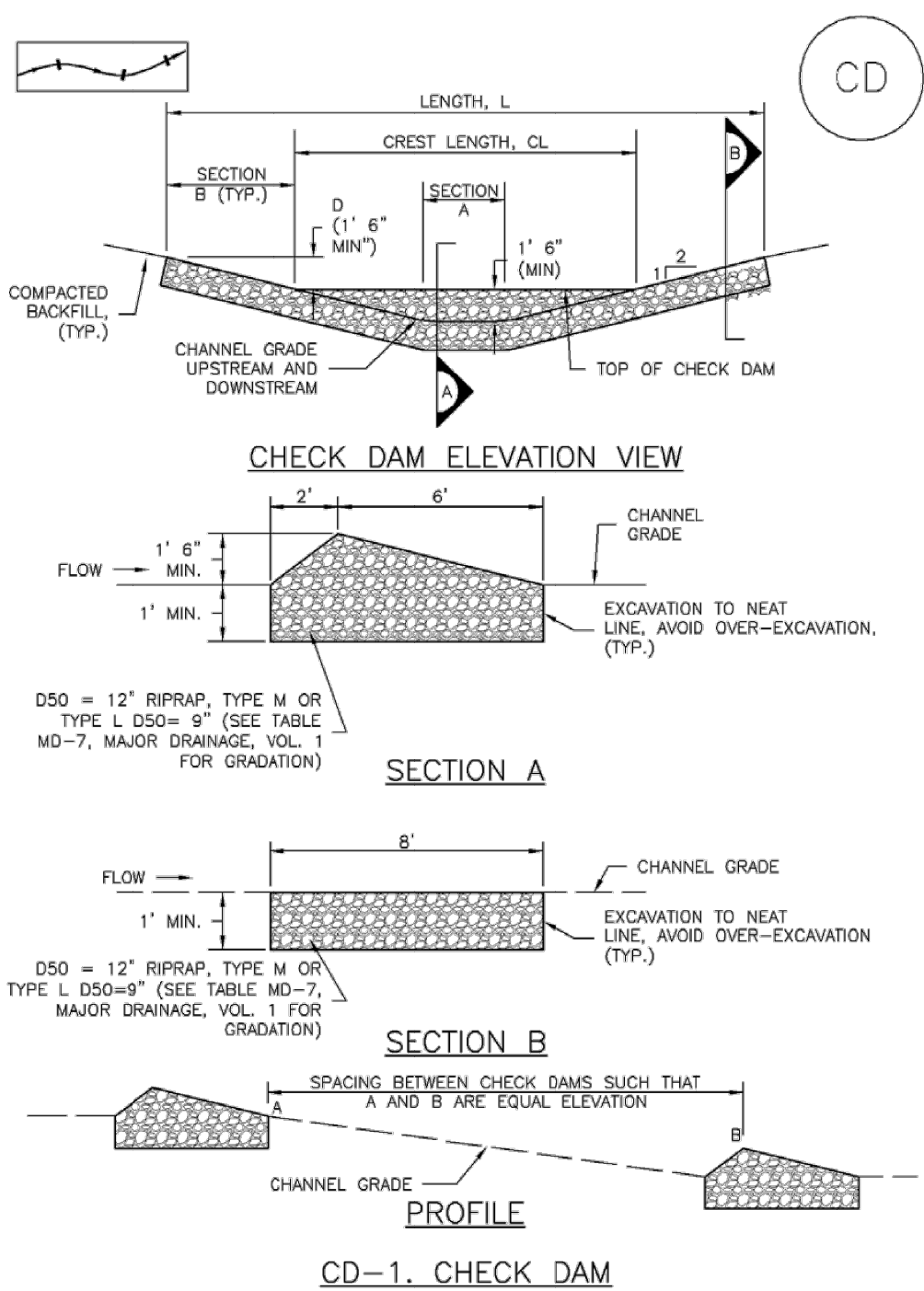


- STABILIZED STAGING AREA INSTALLATION NOTES**
1. SEE PLAN VIEW FOR:
 - LOCATION OF STAGING AREA(S).
 - CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
 2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN 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 AS NEEDED.
- 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.

SSA-3 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Check Dams (CD)

EC-12



CD-3 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

SM-6

Stabilized Staging Area (SSA)

- STABILIZED STAGING AREA MAINTENANCE NOTES**
5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
 6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
- 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 DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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 1/2 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.
- 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 DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

CD-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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DESIGNED BY: KRK
DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/2021

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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
GEC DETAILS

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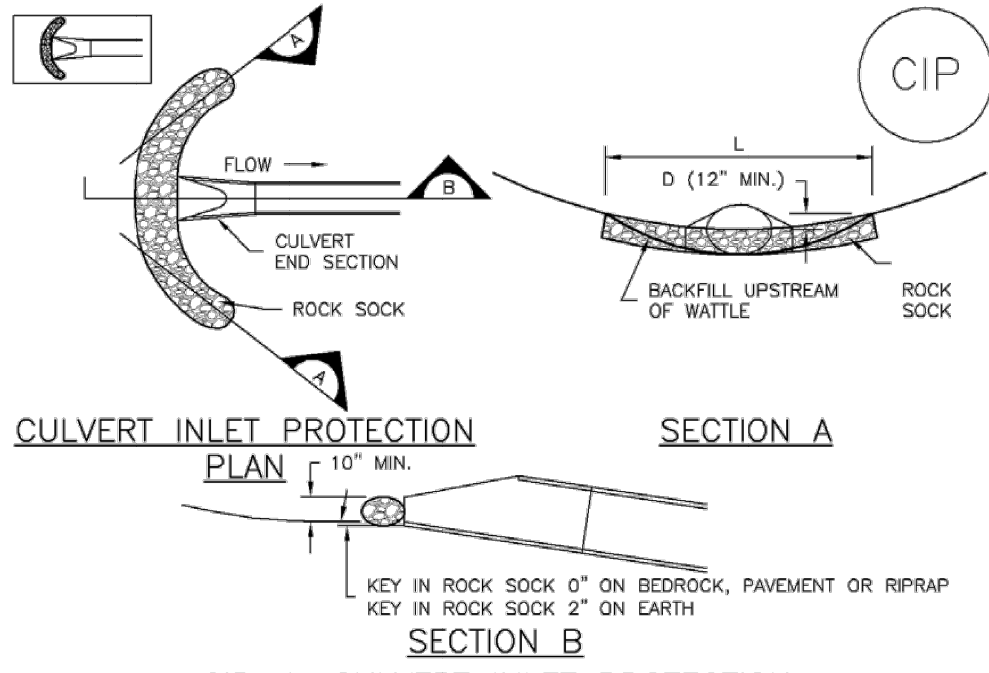
PROJECT NO.
196106001

SHEET

C1.28

Inlet Protection (IP)

SC-6



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 REPAIR OR REPLACE WHEN 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 $\frac{1}{2}$ 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.

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SC-6

Inlet Protection (IP)

GENERAL INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
 - LOCATION OF INLET PROTECTION.
 - TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.

3. 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.

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 INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.

5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.

6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

IP-8
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
August 2013

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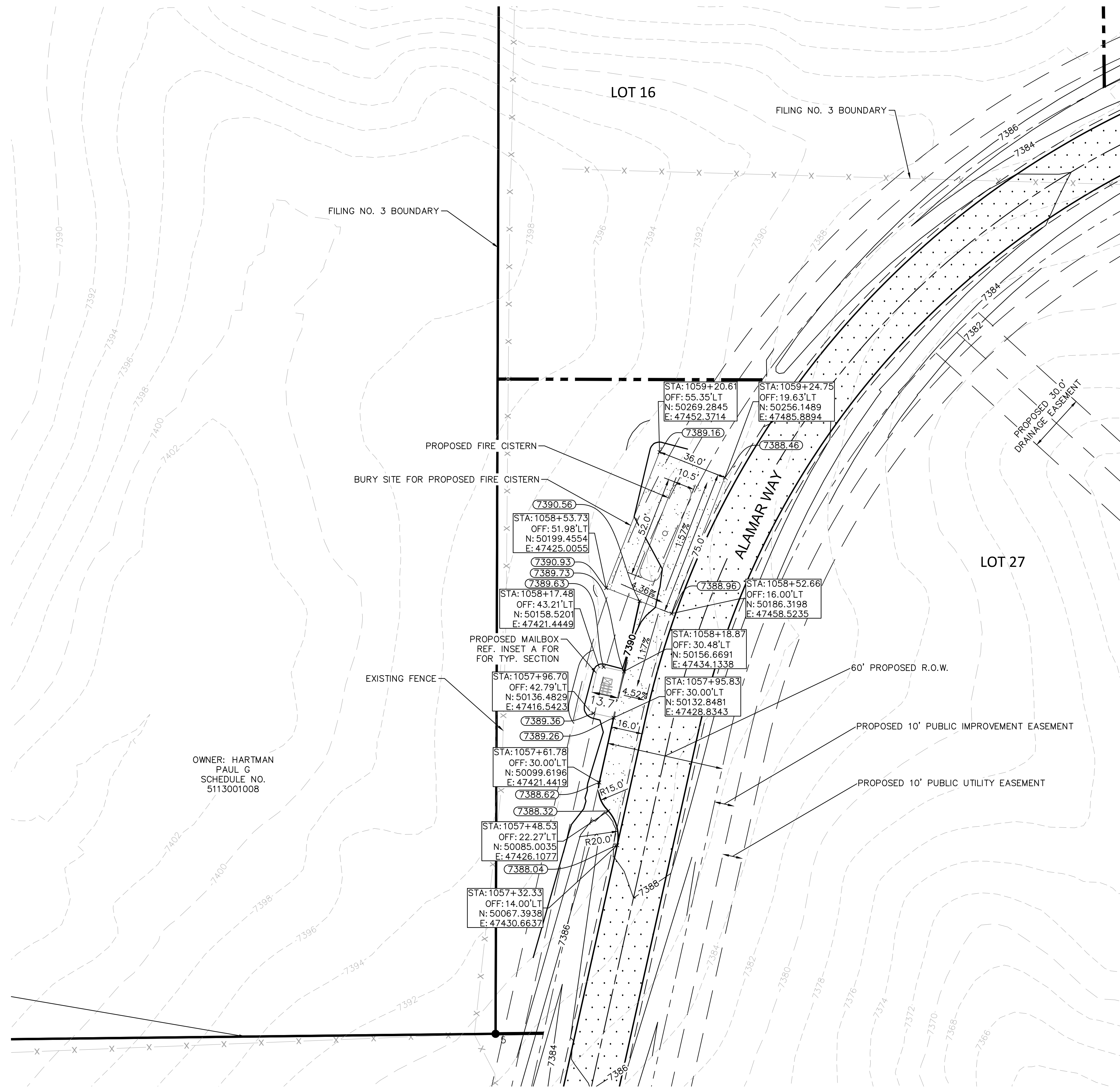
SHEET

C1.29

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CONSTRUCTION DOCUMENTS
GEC DETAILS**

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DRAWN BY: AJL
CHECKED BY: KRK
DATE: 12/16/2021

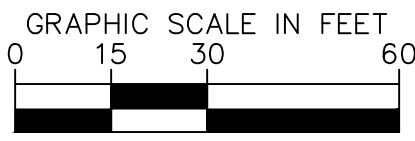
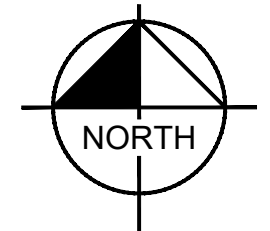
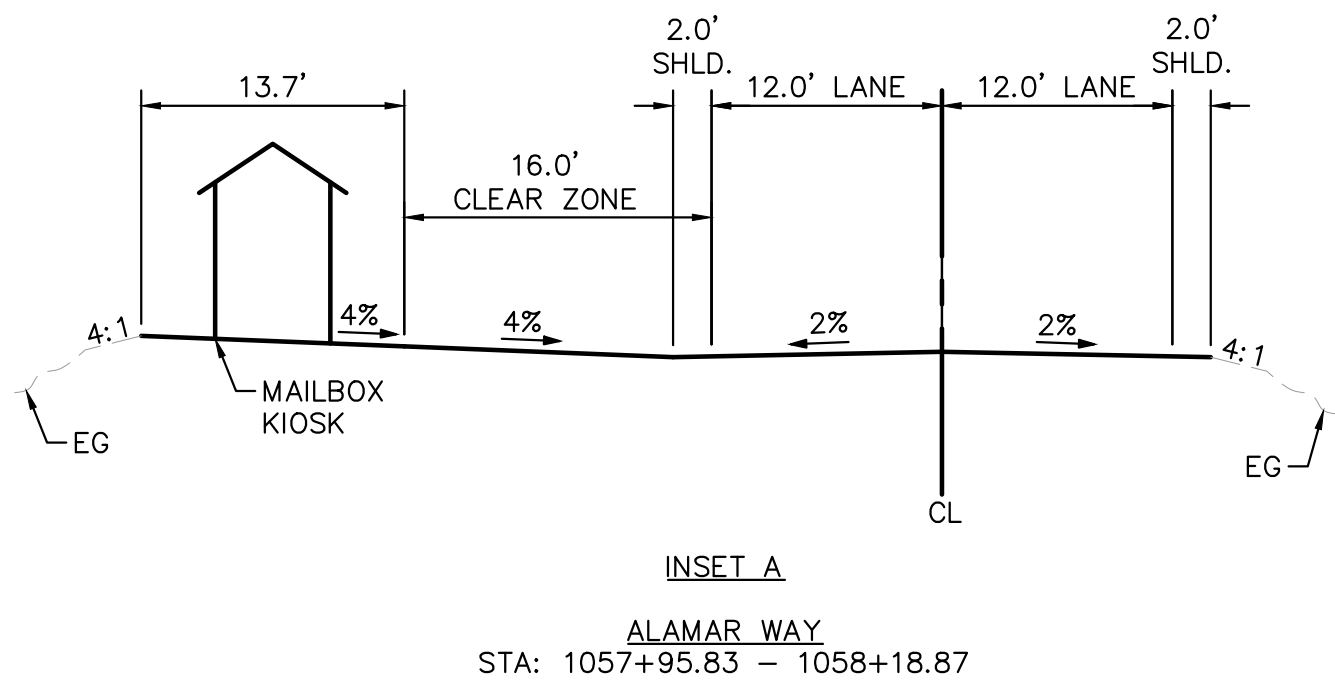


LEGEND

- LOT BOUNDARY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EDGE OF PAVEMENT
- ROADWAY SHOULDER
- PROPOSED R.O.W.
- PROPOSED EASEMENTS

NOTES

- PROPOSED FIRE CISTERN WILL BE DARCO 30,000 GAL FIBERGLASS TANK AS PER FALCON FIRE.
- MINIMUM BURY DEPTH OF 36"
- TANK WILL BE INSTALLED USING SIDE HILL BURY INSTALLATION AS PER DARCO FIBERGLASS UNDERGROUND WATER STORAGE TANK INSTALLATION MANUAL.
- TANK AND INSTALLATION DETAILS CAN BE FOUND ON SHEET C1.31



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DATE: 12/10/2021

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EL PASO COUNTY, COLORADO
PRE DEVELOPMENT GESC PLAN
FIRE CISTERN PLAN










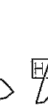
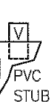




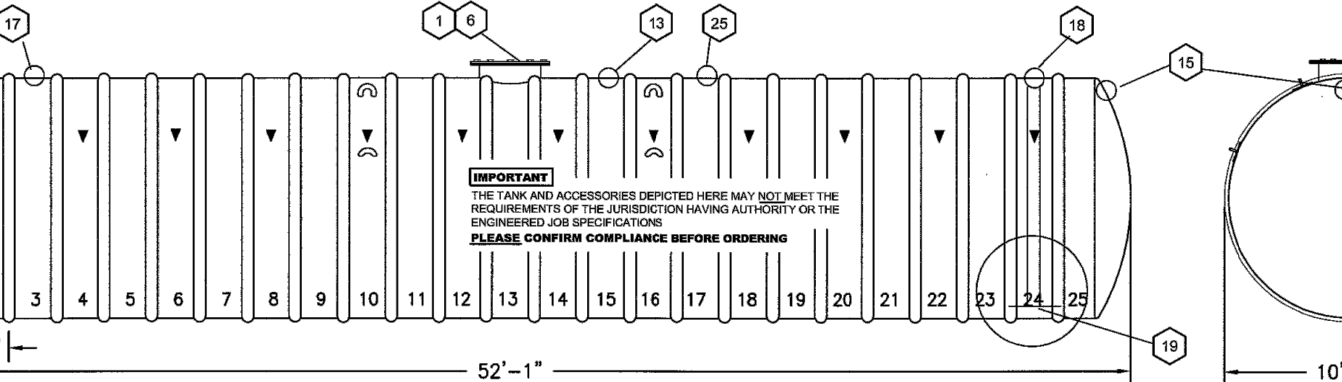
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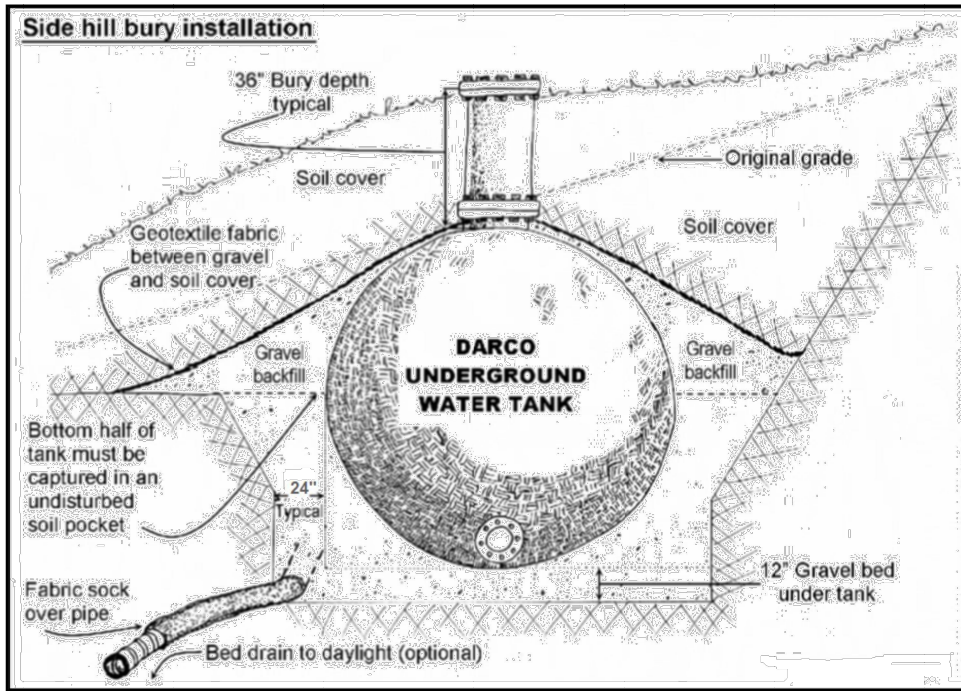
NO.	REVISION	BY	DATE	APPR.
2	RESUBMITTAL #2	KRK	11/30/22	KRK
1	RESUBMITTAL #1	KRK	8/30/22	KRK

TO: _____ PHONE: _____ FAX: _____ EMAIL: _____ STANDARD D-5 NOM. CAPACITY 30,000 NOM. WEIGHT 8,000 POTABLE _____ NON-POTABLE X USE Fire Cistern	FIRM Falcon Fire Protection District PROJECT Falcon FD Minimum Draft QUOTE # A0720S-R2 DATE 09.18.08 SITE LOCATION Falcon Fire District COUNTY El Paso <hr/> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> INCLUDED WITH THIS FIBERGLASS UNDERGROUND TANK QUOTATION 1 - 30"x36" manway-hinged or bolted cover 19 - NFA anti-vortex plate on draw pipe 6 - 4" lockable inspection hatch on manway 25 - Water level gauge (reads in inches) 3 - 6" PVC vent head-screened _____ 10 - High water level control assembly _____ 17 - Stainless refill w/2-5" NST-F connections _____ 6 - NST-F dry hydrant head _____ </div> <div style="width: 35%;"> PREPAID PRICE \$ _____ TAX AD 2.5% DEPOSIT 33% with order FREIGHT DETAILS ESTIMATED to Falcon, CO DELIVERY: 8-10 WEEKS FROM ORDER ACCEPTANCE EXCLUDED IN THIS PRICE QUOTATION 1. INSPECTION, ACCEPTANCE, AND OFFLOAD 2. INSTALLATION MATERIALS AND LABOR 3. UNSPECIFIED PIPE, VALVES, AND FITTINGS 4. PUMPS, CONTROLS, AND LEVEL SENSORS 5. WIRE ROPE, CLAMPS, AND DEADMAN ANCHOR FORMS 6. _____ </div> </div>
BURY DETAILS 36" typical-roted for 60" bury depth WATER SOURCE _____ ANTIBUOYANCY _____ APPROVALS Local Fire District _____ COMMENTS: Minimum draft design.	
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  1 LOCKABLE </div> <div style="text-align: center;">  2 LOCKABLE </div> <div style="text-align: center;">  3 LOCKABLE </div> <div style="text-align: center;">  4 LOCKABLE </div> <div style="text-align: center;">  5 LOCKABLE </div> <div style="text-align: center;">  6 LOCKABLE </div> <div style="text-align: center;">  7 LOCKABLE </div> <div style="text-align: center;">  8 LOCKABLE </div> <div style="text-align: center;">  9 LOCKABLE </div> <div style="text-align: center;">  10 LOCKABLE </div> <div style="text-align: center;">  11 LOCKABLE </div> <div style="text-align: center;">  12 LOCKABLE </div> <div style="text-align: center;">  13 LOCKABLE </div> <div style="text-align: center;">  14 LOCKABLE </div> <div style="text-align: center;">  15 LOCKABLE </div> </div>	
 <p style="text-align: center;">52'-1" 10'-5"</p>	
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> NOTES: ANCHOR TIE RODS (SEE D5) (REMAIN INCHES: 4 EACH SIDE (IF USED)) 12" </div> <div style="width: 35%;"> IMPORTANT: REVIEW DARCO STRUCTURAL SPECIFICATIONS AND LIMITED WARRANTY BEFORE APPROVAL / GRAVEL BED AND 100% GRAVEL ENCAPSULATION REQUIRED / MAXIMUM BURY DEPTH FOR STANDARD FIBERGLASS VESSELS IS 6'5" / (SEE DARCO WEB SITE FOR INSTALLATION DETAILS AND APPROVED MATERIALS / FIRE SERVICE DESIGNS MUST HAVE PRIOR FIRE DEPARTMENT APPROVAL / DARCO FACTORY CURES ARE HONORED FOR 30 DAYS ONLY APPROVED: _____ DATE: _____ <input type="checkbox"/> PAID <input type="checkbox"/> MANUAL <input type="checkbox"/> RELEASE </div> </div>	
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> DARCO FIBERGLASS TANK - 10D - 30,000 (30,000 Gal.) Rev. No. G 980 Darco Drive, Berrett, Colorado 80102 800-232-9860 (phone) 303-644-5001 (fax) www.darcoinc.com </div> <div style="width: 35%;"> DARCO UNDERGROUND TANKS 980 Darco Drive, Berrett, Colorado 80102 800-232-9860 (phone) 303-644-5001 (fax) www.darcoinc.com </div> </div>	

Chief Trent Harwig / Deputy Chief Jeff Petersma

INTRODUCTION

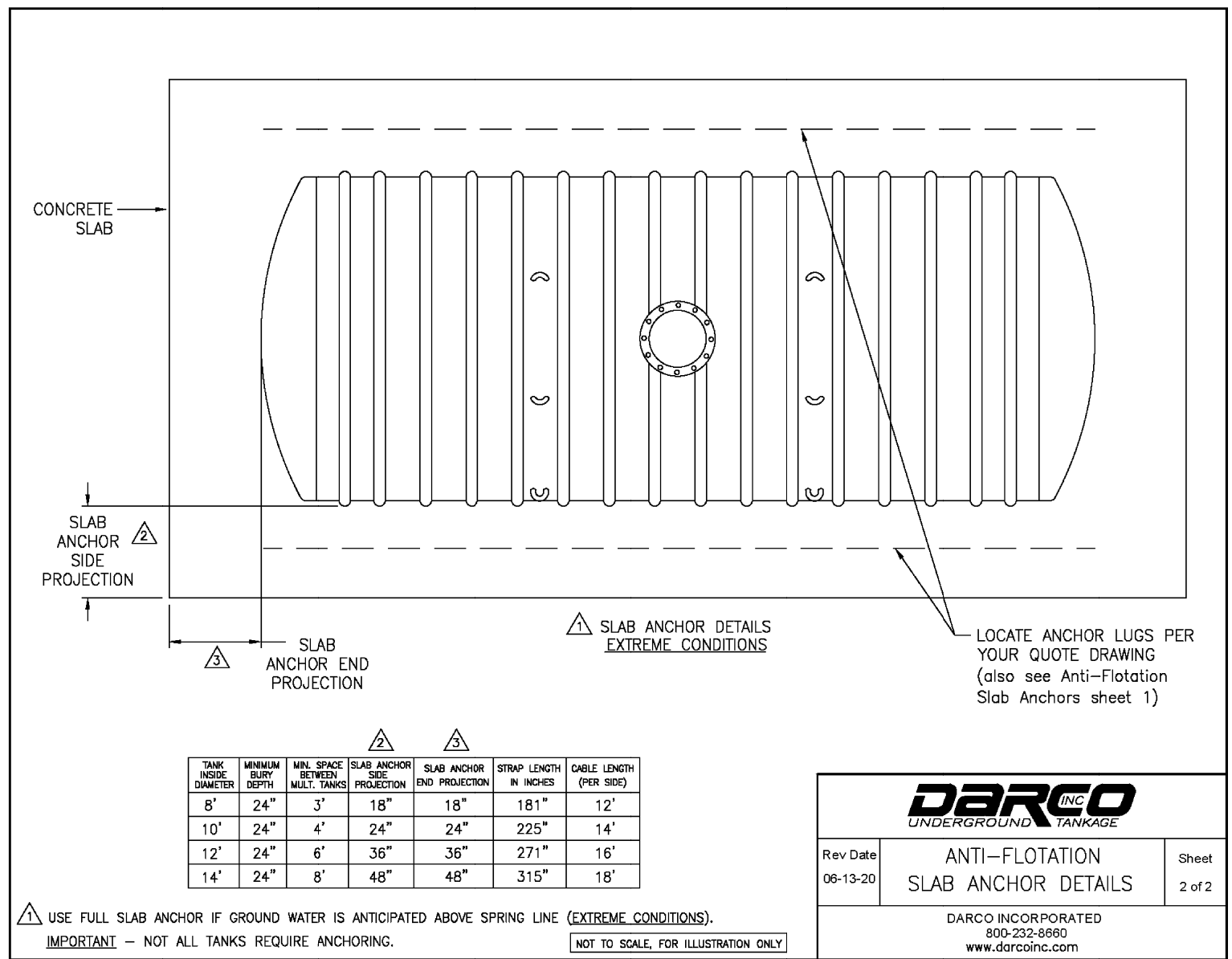
2. SIDE HILL installations require that **no less than** the bottom **half** of the tank be captured in a pocket of undisturbed natural soil for proper support. If high ground water or perched water is probable, install a **sub-drain** or bed drain running down hill to daylight to relieve any water trapped in the tank bedding material.



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INTRODUCTION

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FIRE CISTERN DETAIL

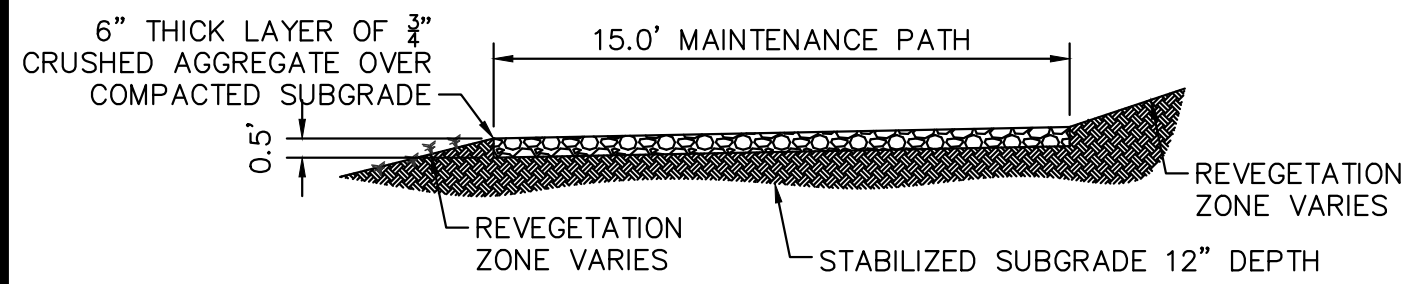
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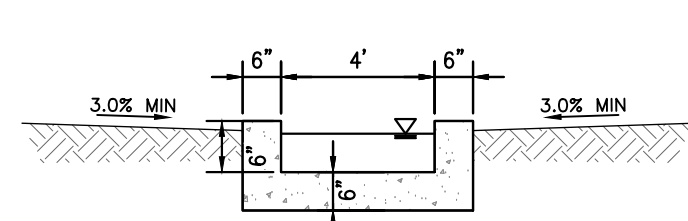


1 MAINTENANCE ROAD

1"=5'

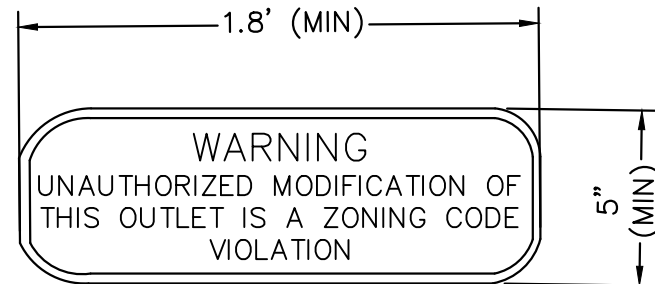
MAINTENANCE PATH NOTES

1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



2 CONCRETE TRICKLE CHANNEL

N.T.S.

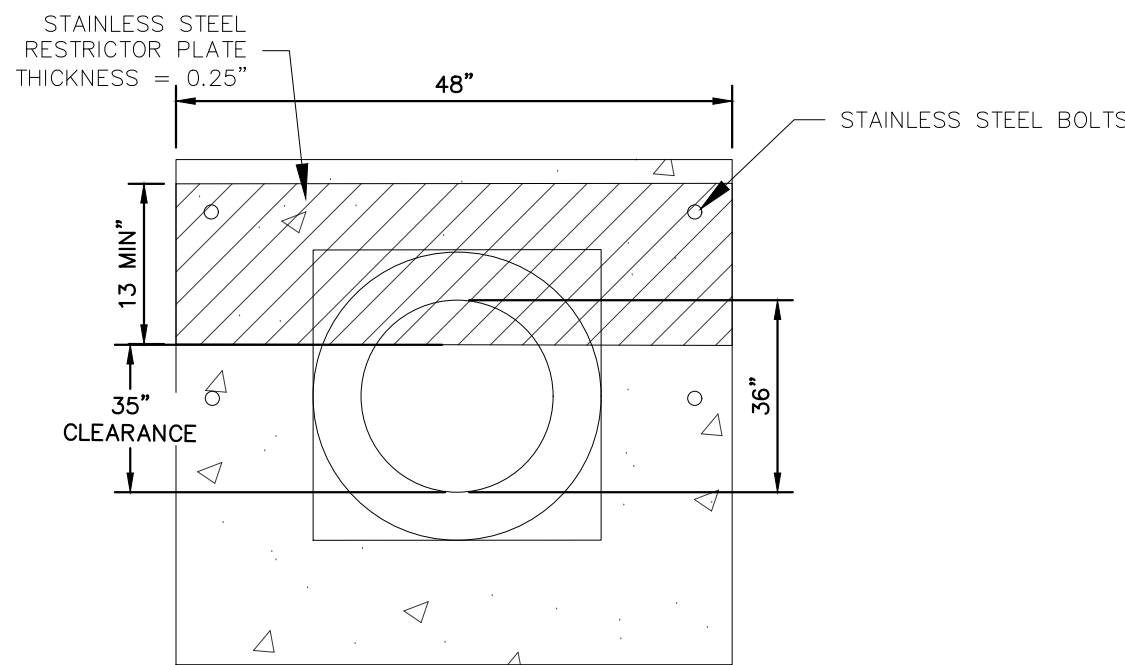


3 OUTLET SIGNAGE

N.T.S.

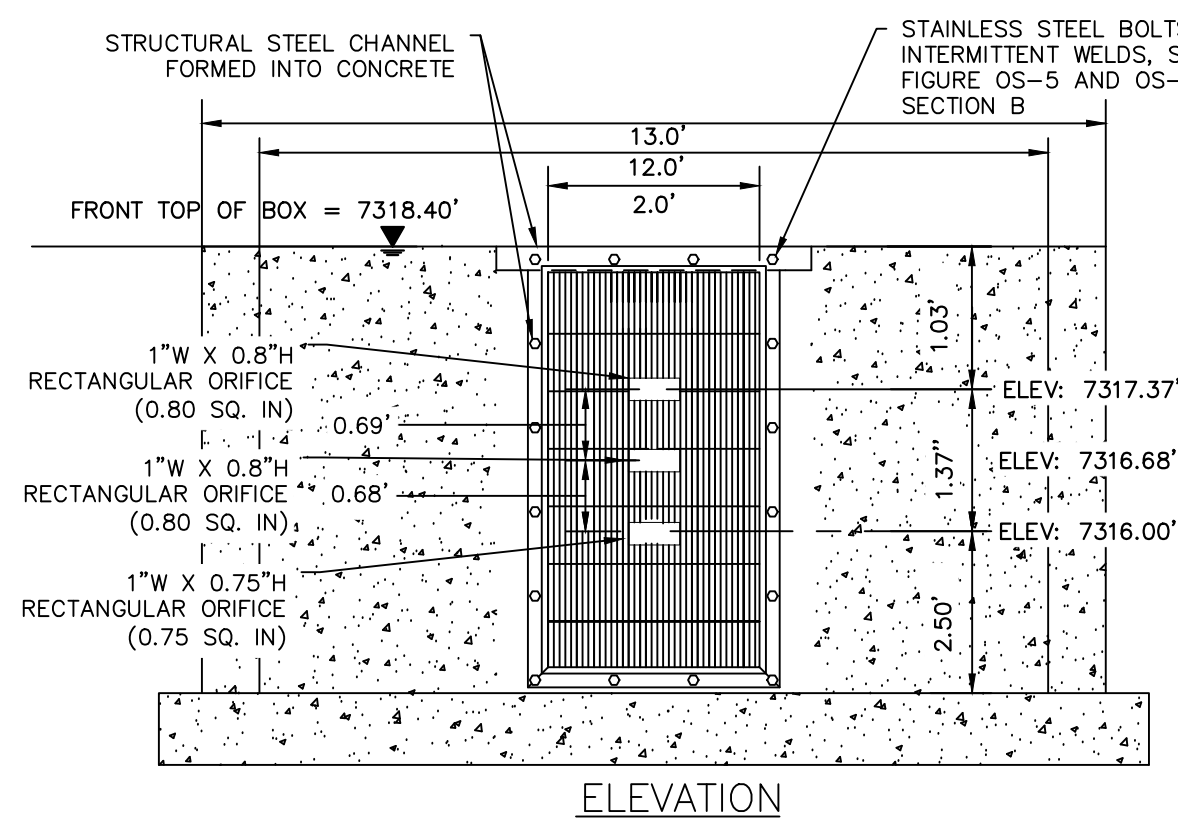
OUTLET SIGNAGE NOTES

1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.



5 100-YEAR FLOW RESTRICTOR B

N.T.S.



4 ORIFICE PLATE AND TRASH RACK DETAIL

N.T.S.

ORIFICE PLATE NOTES

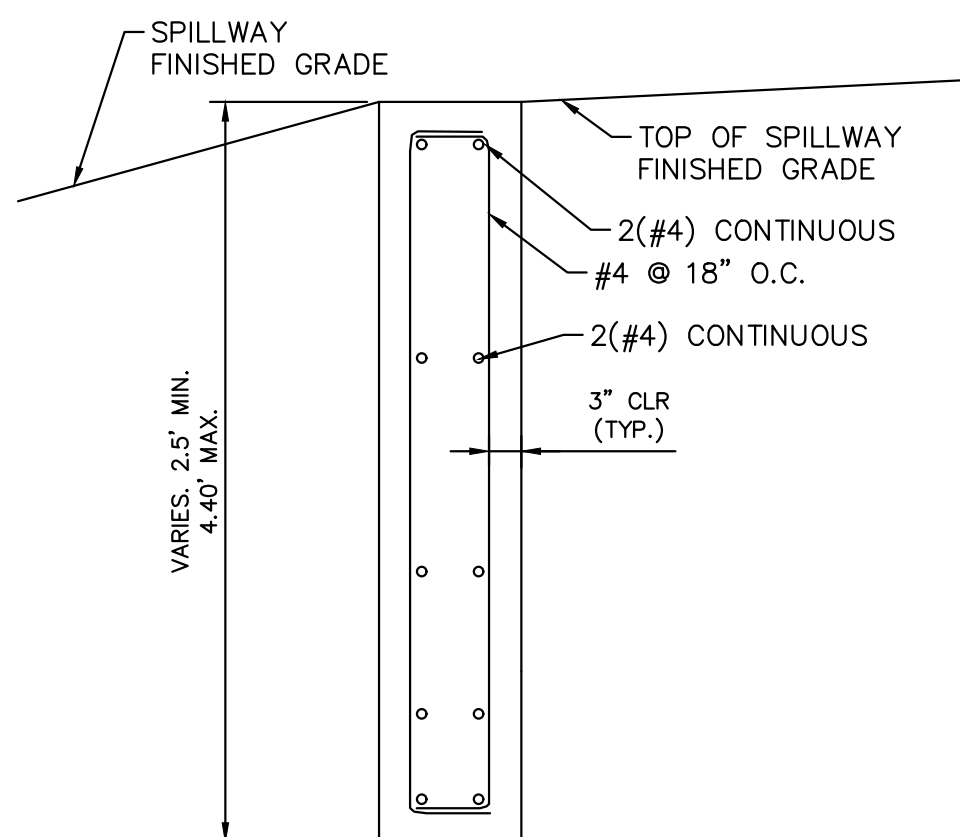
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

EURV AND WQCV TRASH RACKS

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.

OVERFLOW SAFETY GRATES

1. ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.



6 SECTION CREST WALL DETAIL

N.T.S.

RIPRAP NOTES:

COLORADO DEPARTMENT OF TRANSPORTATION SECTION 506 REQUIREMENTS APPLY TO ALL RIPRAP.

Table 506-2

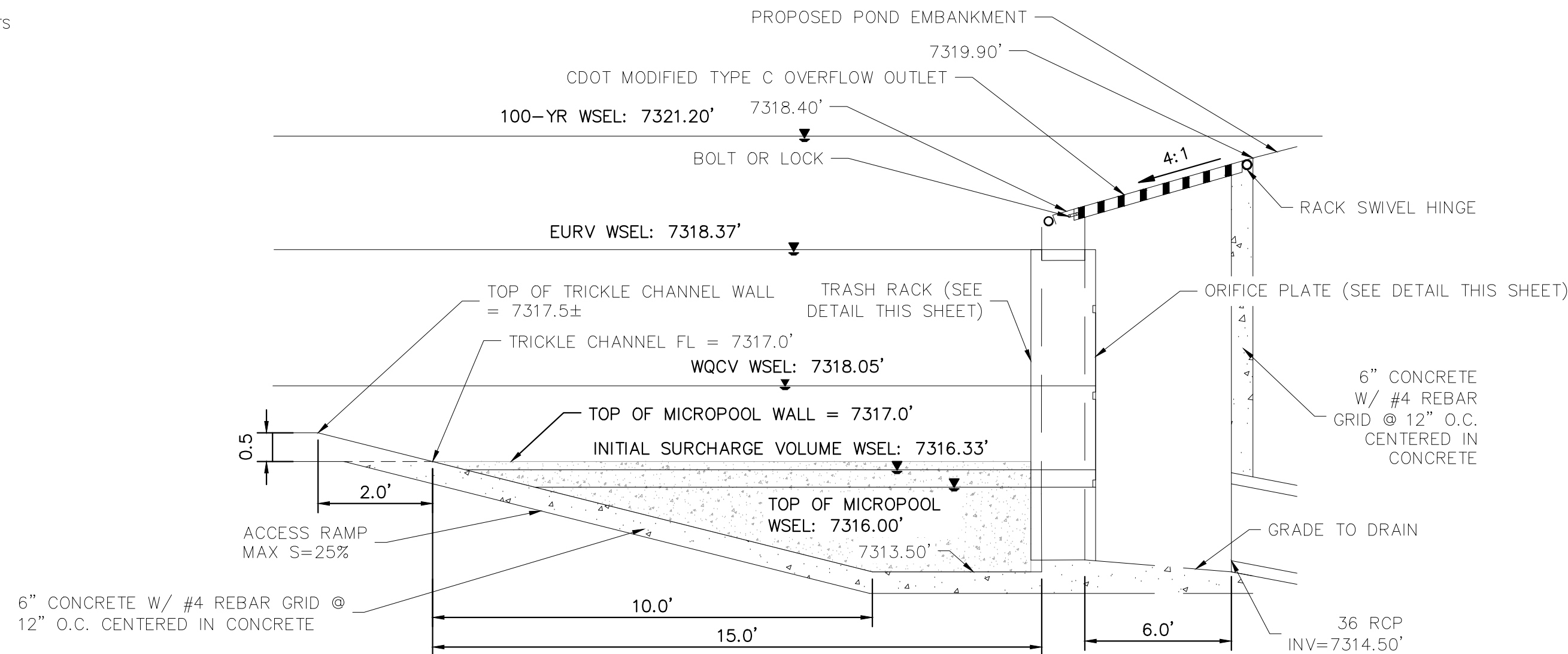
Pay Item	Stone Size d50 ¹ (Inches)	Percent of Material Smaller Than Typical Stone ²	Typical Stone Dimensions ³ (Inches)	Typical Stone Weight ⁴ (Pounds)
Riprap	6	70-100	12	85
		50-70	9	35
		35-50	6	10
		2-10	2	0.4
Riprap	9	70-100	15	160
		50-70	12	85
		35-50	9	35
		2-10	3	1.3
Riprap	12	70-100	21	440
		50-70	18	275
		35-50	12	85
		2-10	4	3
Riprap	18	100	30	1280
		50-70	24	650
		35-50	18	275
		2-10	6	10
Riprap	24	100	42	3500
		50-70	33	1700
		35-50	24	650
		2-10	9	35

¹d50 = nominal stone size

²based on typical rock mass

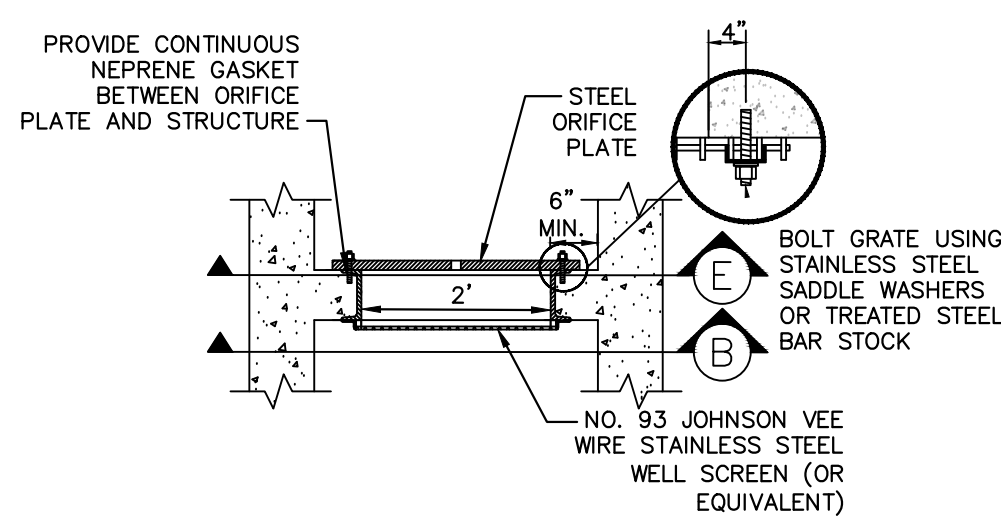
³equivalent spherical diameter

⁴based on a specific gravity = 2.5



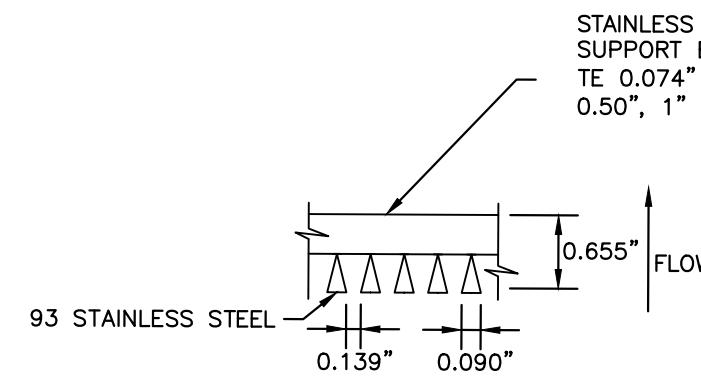
7 OUTLET STRUCTURE DETAIL

N.T.S.



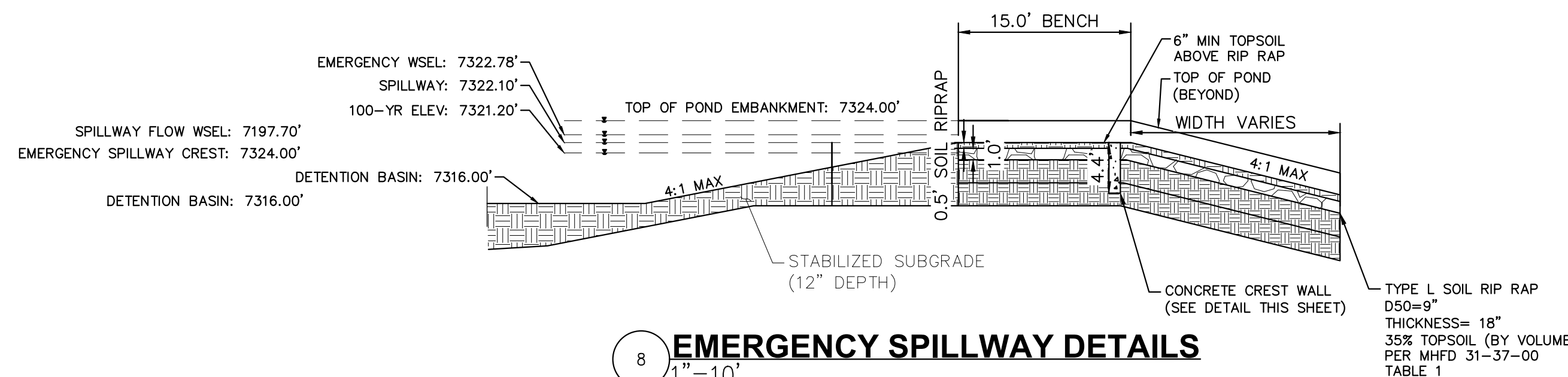
A SECTION A

N.T.S.



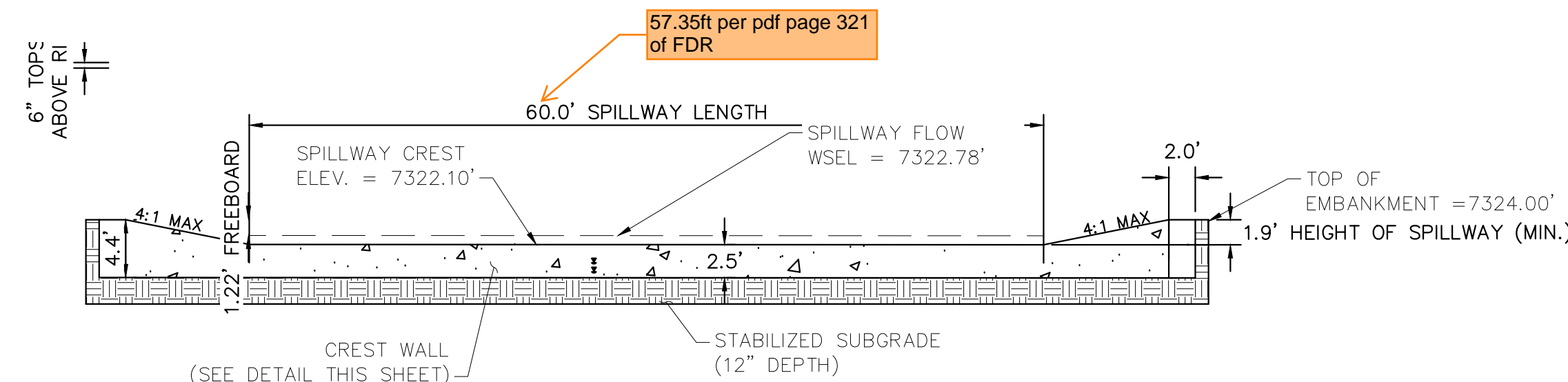
B SECTION B

N.T.S.



8 EMERGENCY SPILLWAY DETAILS

1"=10'



9 EMERGENCY SPILLWAY

1"=10'



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POND 1 DETAILS

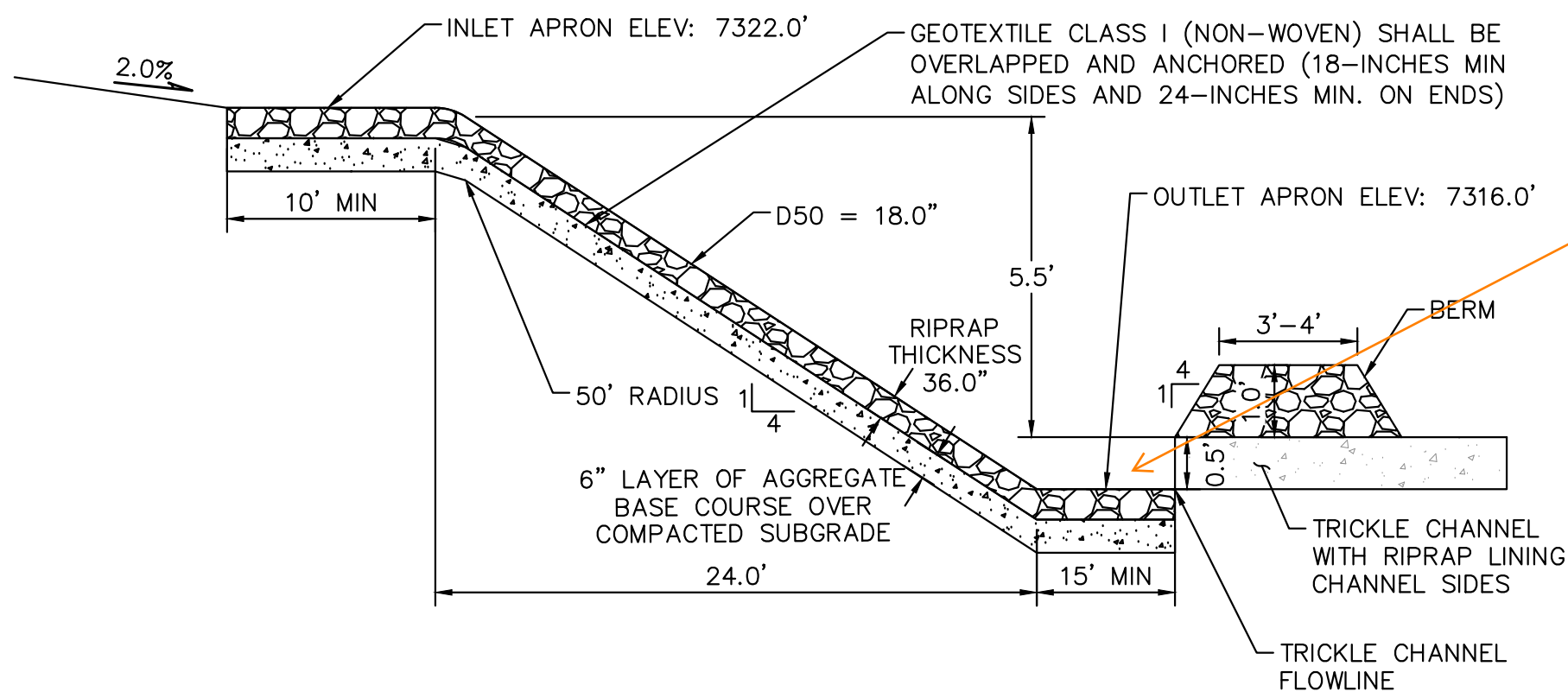
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196106001

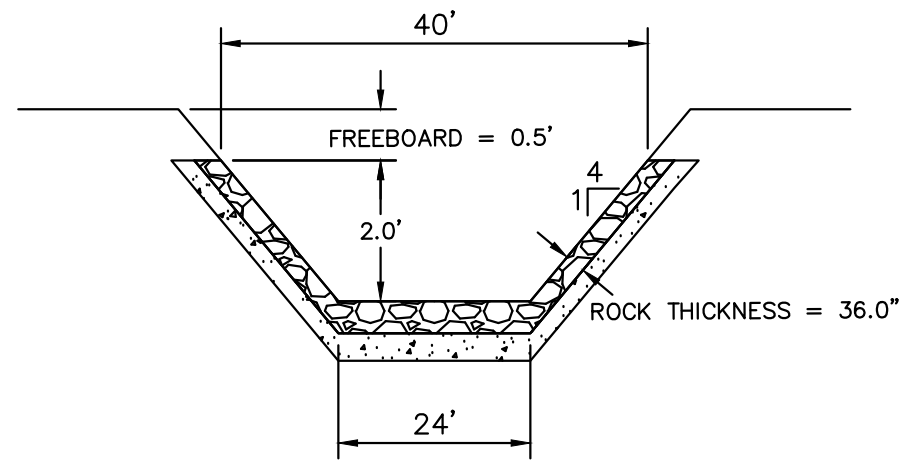
SHEET

C1.33

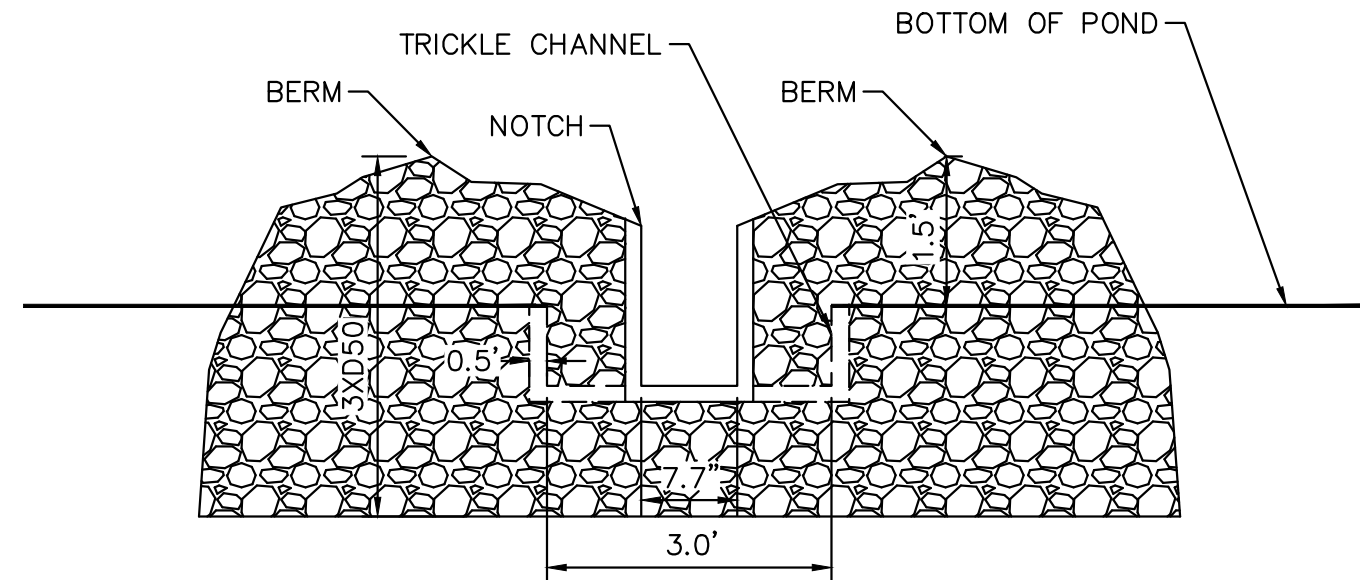
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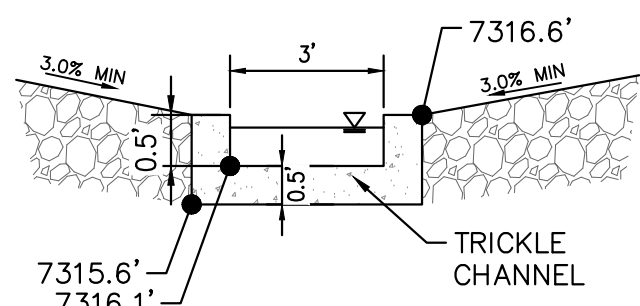
10 **ROCK CHUTE #4 PROFILE- CROSS SECTION 1**
N.T.S.



11 **ROCK CHUTE #4 PROFILE- CROSS SECTION 2**
N.T.S.

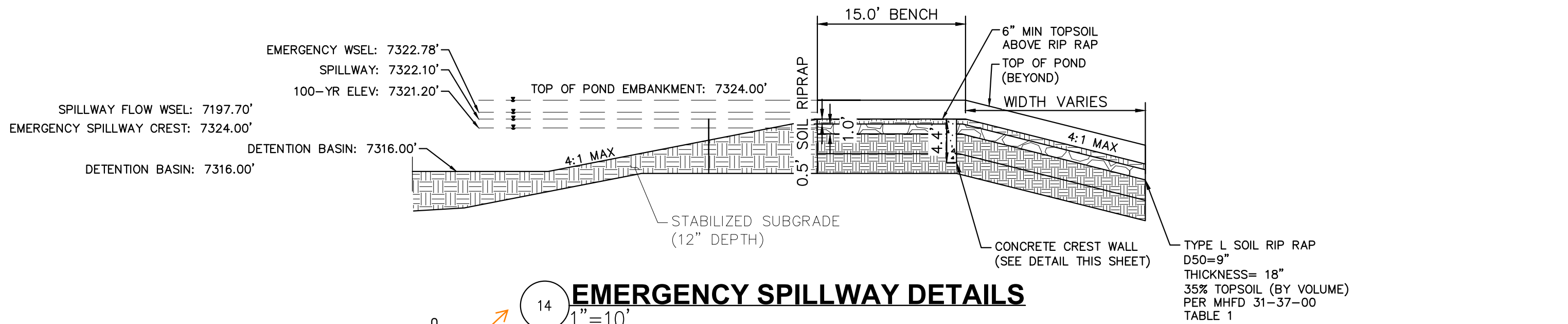


12 **ROCK CHUTE #4 PROFILE- CROSS SECTION 2**
N.T.S.



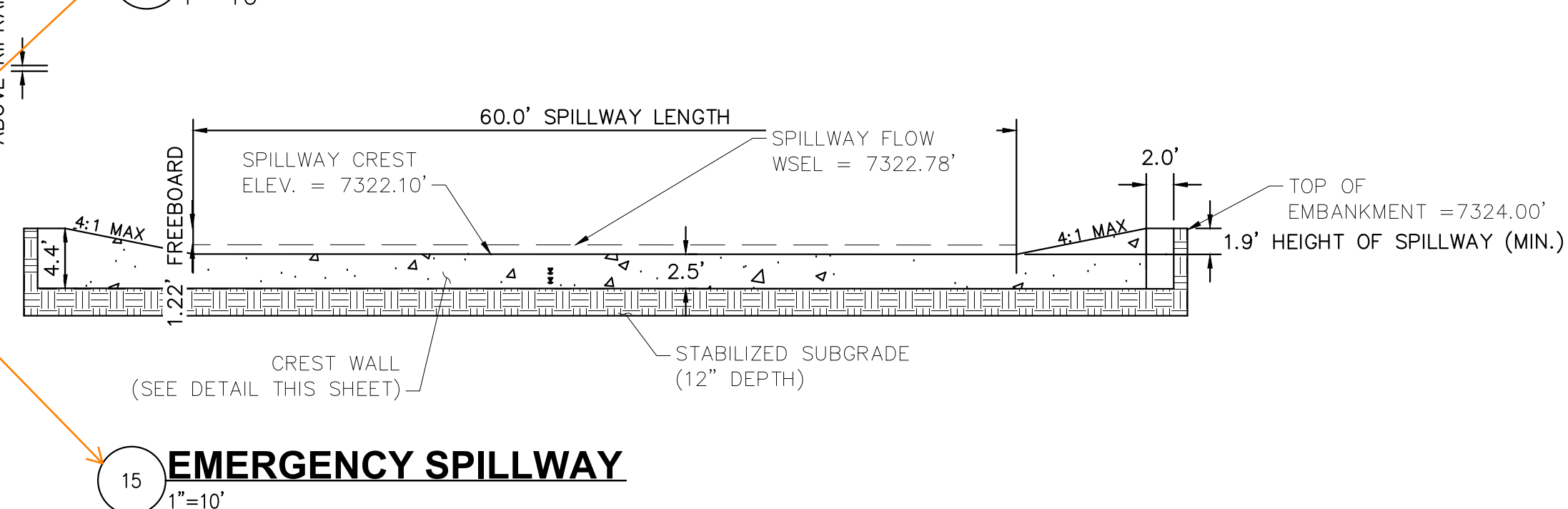
13 **ROCK CHUTE TO TRICKLE CHANNEL TRANSITION**
N.T.S.

Per previous comment in Review #1, MHFD recommends that the "floor of forebays should be concrete or lined with grouted boulders to define sediment removal limits."
Typical comment for all forebays.

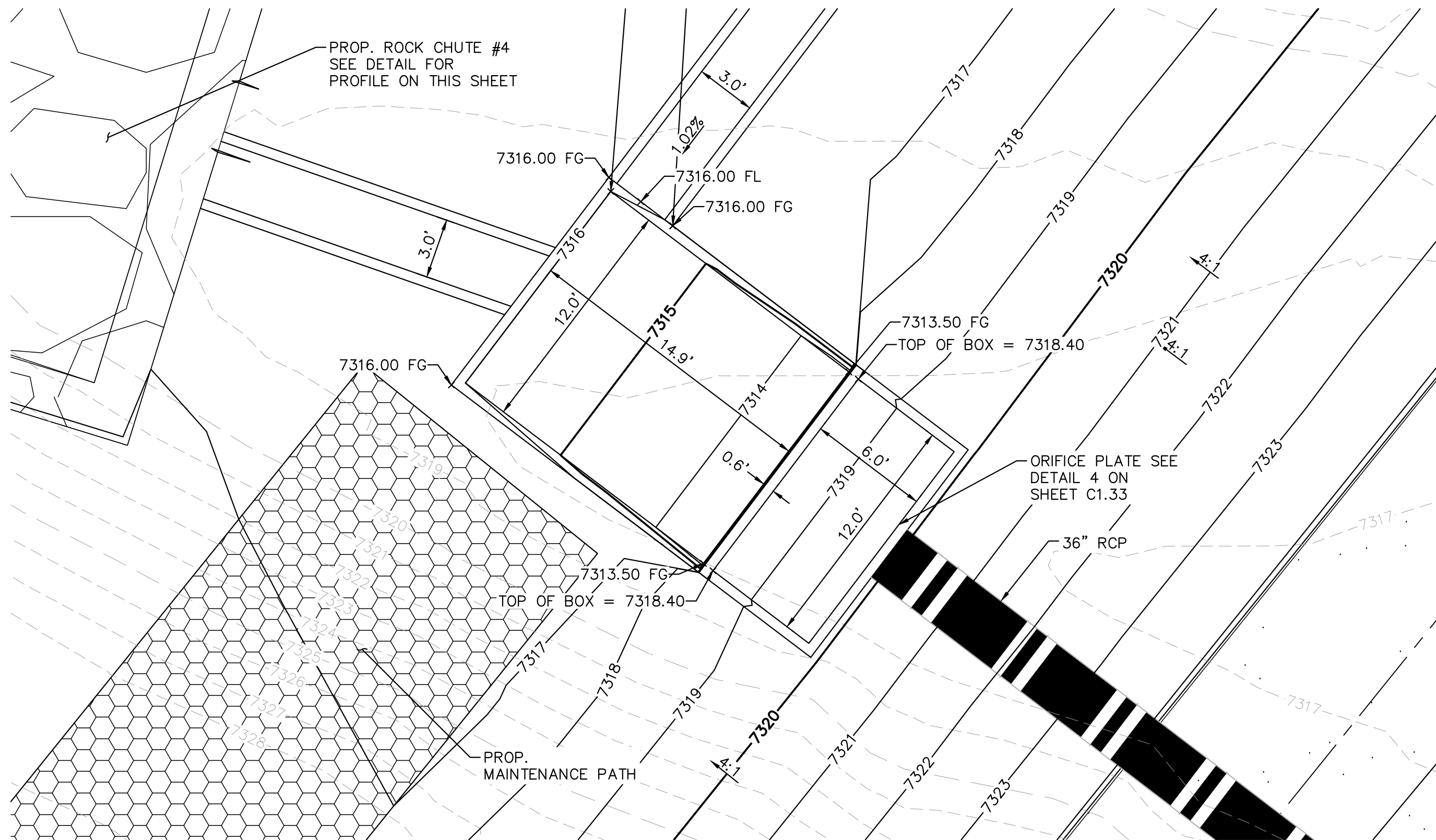


14 **EMERGENCY SPILLWAY DETAILS**
1"=10'

Duplicate details already on previous sheet. I think that they can be deleted.



15 **EMERGENCY SPILLWAY**
1"=10'



16 **OUTLET STRUCTURE PLAN VIEW DETAIL**
1"=5'

Rock Chute ID	Channel Location	Flow (cfs)	Upstream Inlet Apron Length (ft)	Drop (ft) (Inlet Apron to Outlet Apron)	Chute Length (ft)	Downstream Outlet Apron Length (ft)	Chute Width (ft)	D50 (in)	Rock Chute Thickness (in)	Radius (ft)	Min Rock Chute Depth (ft)	Rock Chute Depth (ft)	Top Chute Width (ft)
4	Pond 1	107	10	6	24	15	24	18	36	50	1.27	1.50	40
6	Pond 2	110	10	8	32	18	17	18	36	50	1.57	2.00	33
11	Pond 4	26	10	10	40	11	10	9	18	25	0.85	1.50	26
12	WQ Pond	100	11	5	20	20	12	18	36	50	1.81	2.00	28
13	WQ Pond	57	10	3	12	16	10	18	36	50	1.38	1.50	26

15 **STANDARD ROCK CHUTE DIMENSION TABLE**
N.T.S.

1. SEE GRADING PLANS FOR ROCK CHUTE LOCATIONS

Review these zoomed in Plan details for all ponds as they are all new with this submittal.

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



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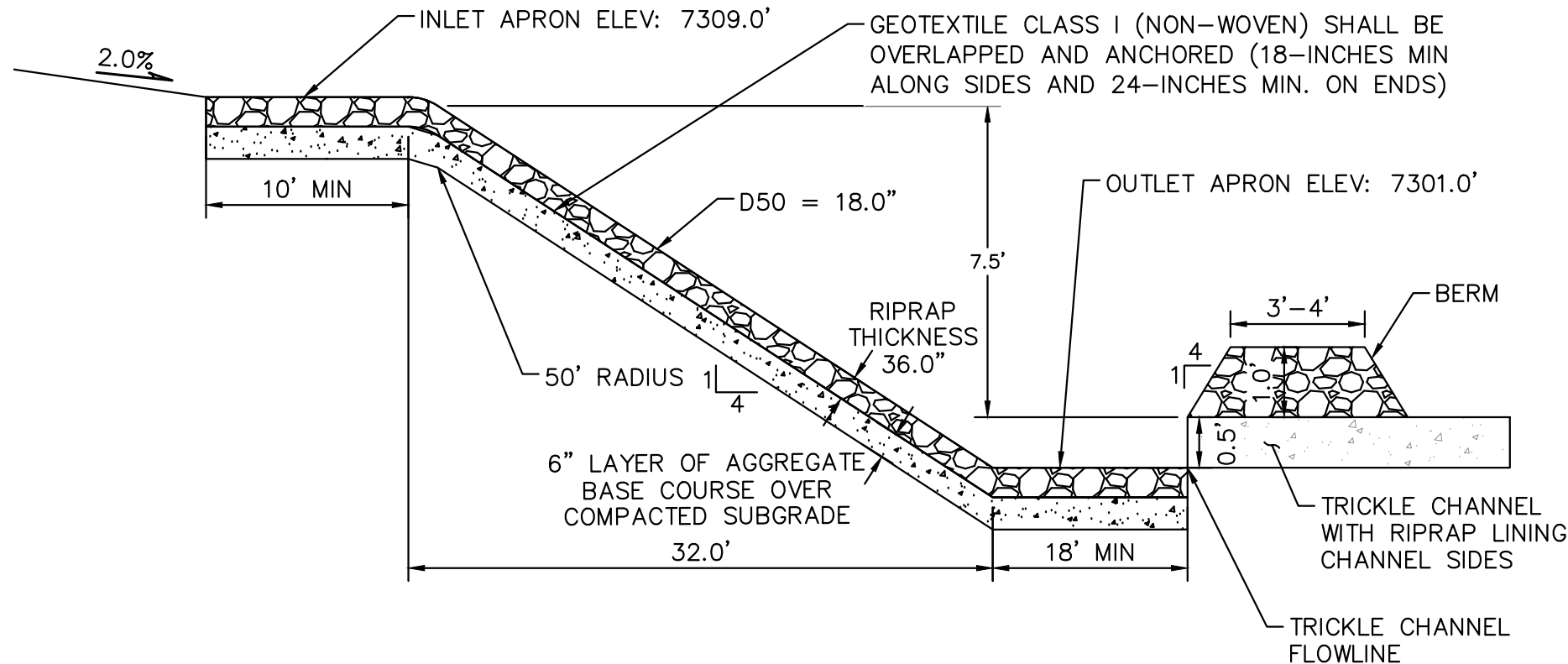
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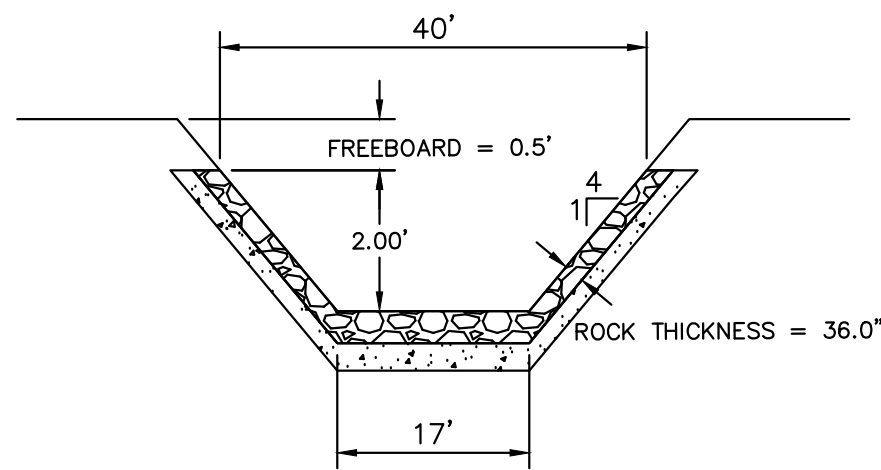
PROJECT NO.
196106001
SHEET

C1.34

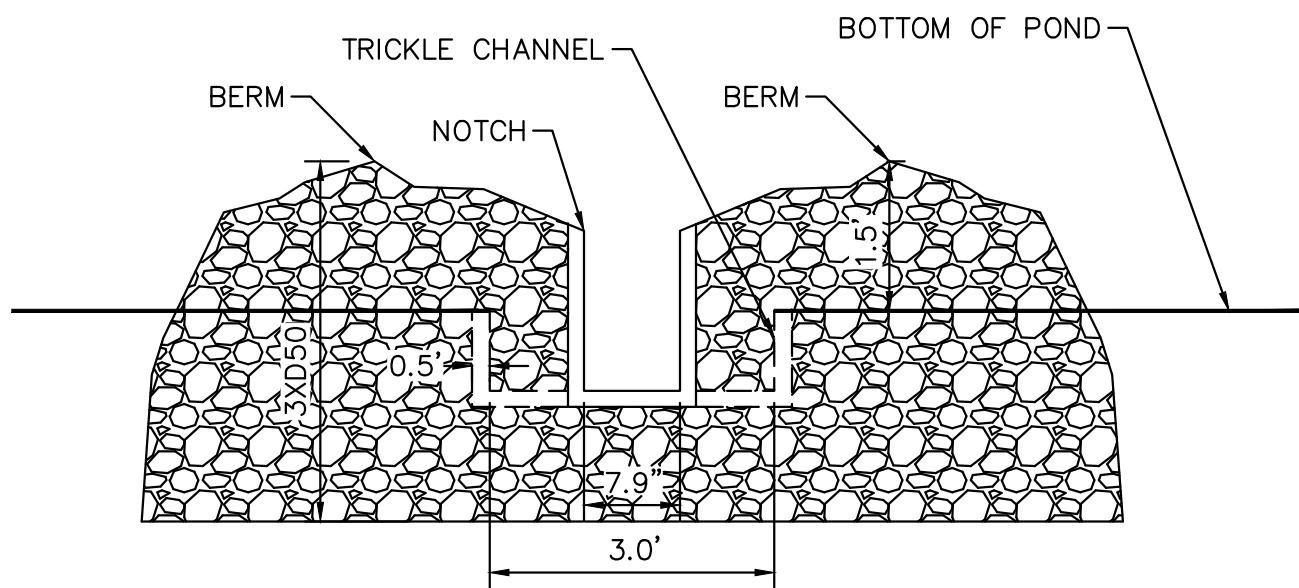
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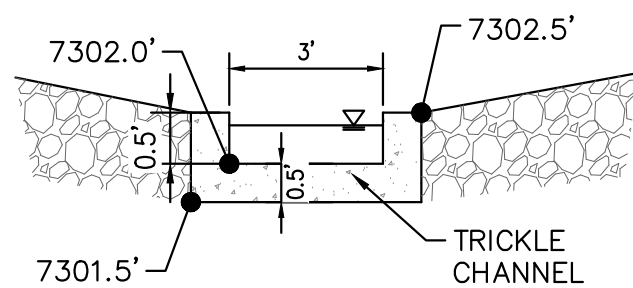
10 **ROCK CHUTE #6 PROFILE- CROSS SECTION 1**
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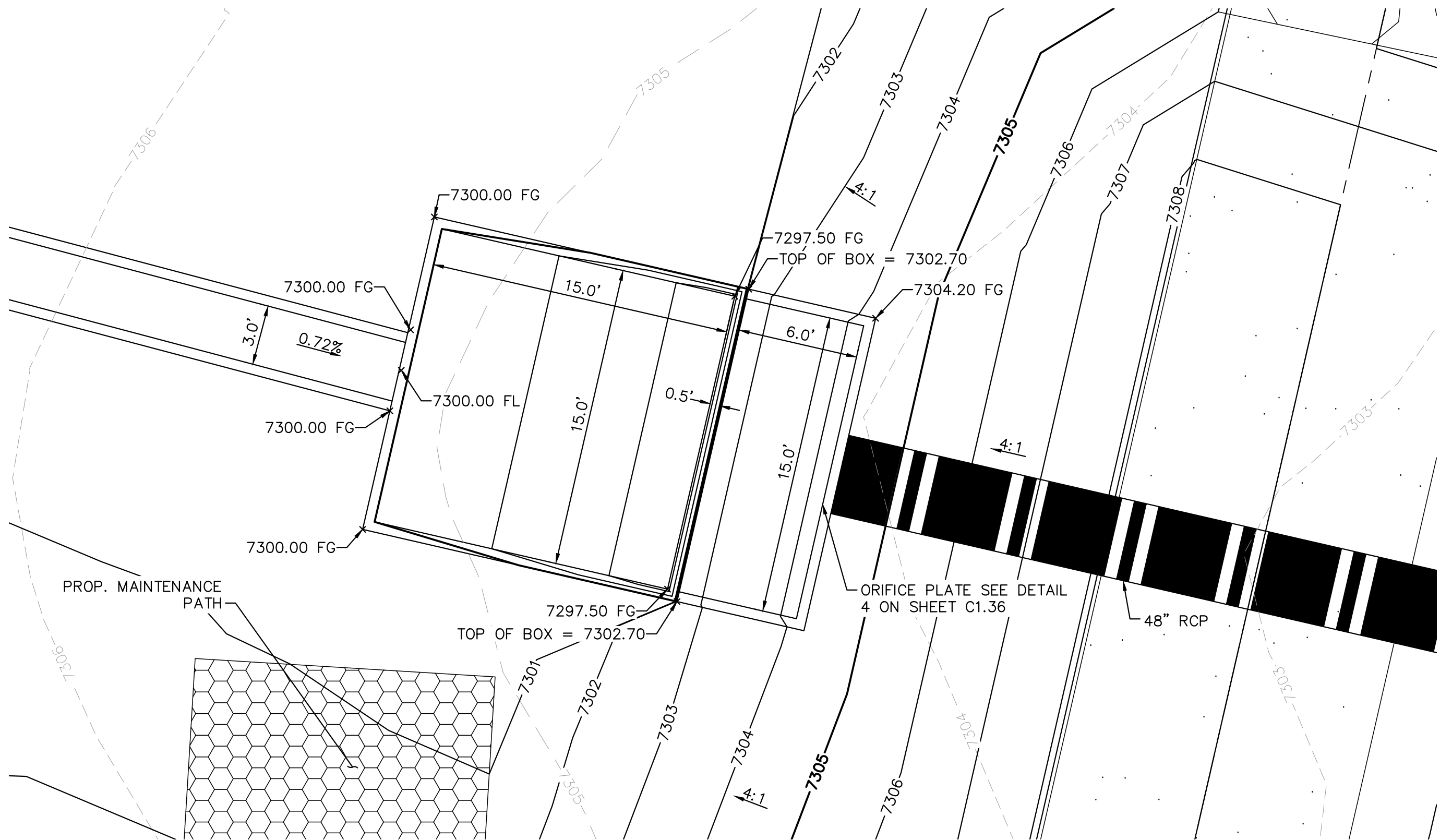
11 **ROCK CHUTE #6 PROFILE- CROSS SECTION 2**
N.T.S.



12 **ROCK CHUTE #6 NOTCH PROFILE**
N.T.S.



13 **ROCK CHUTE TO TRICKLE CHANNEL TRANSITION**
N.T.S.



14 **OUTLET STRUCTURE PLAN VIEW DETAIL**
1"=5'

Rock Chute ID	Channel Location	Flow (cfs)	Upstream Inlet Apron Length (ft)	Drop (ft) (Inlet Apron to Outlet Apron)	Chute Length (ft)	Downstream Outlet Apron Length (ft)	Chute Width (ft)	D50 (in)	Rock Chute Thickness (in)	Radius (ft)	Min Rock Chute Depth (ft)	Rock Chute Depth (ft)	Top Chute Width (ft)
4	Pond 1	107	10	6	24	15	24	18	36	50	1.27	1.50	40
6	Pond 2	110	10	8	32	18	17	18	36	50	1.57	2.00	33
11	Pond 4	26	10	10	40	11	10	9	18	25	0.85	1.50	26
12	WQ Pond	100	11	5	20	20	12	18	36	50	1.81	2.00	28
13	WQ Pond	57	10	3	12	16	10	18	36	50	1.38	1.50	26

15 **STANDARD ROCK CHUTE DIMENSION TABLE**
N.T.S.

1. SEE GRADING PLANS FOR ROCK CHUTE LOCATIONS



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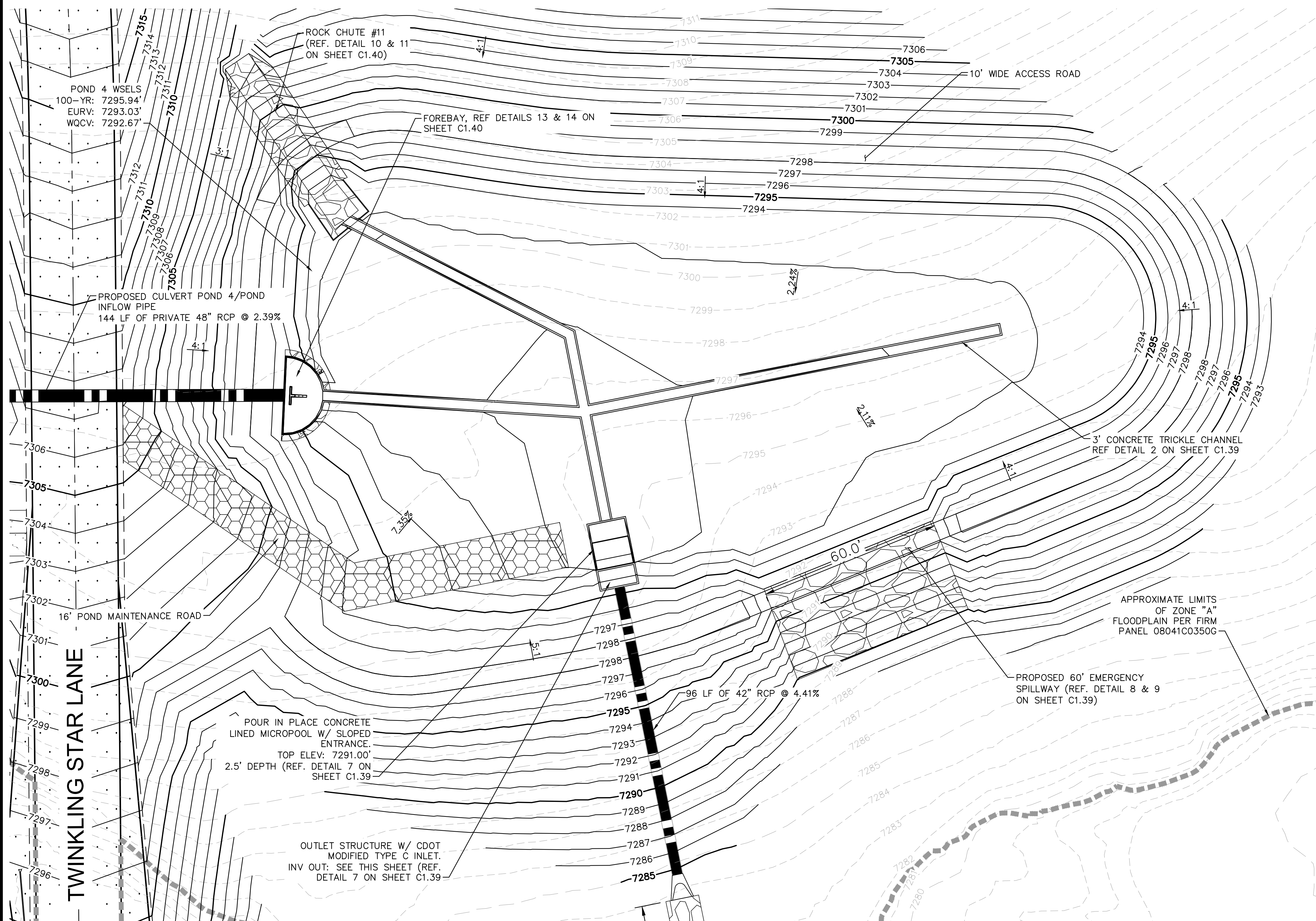
WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
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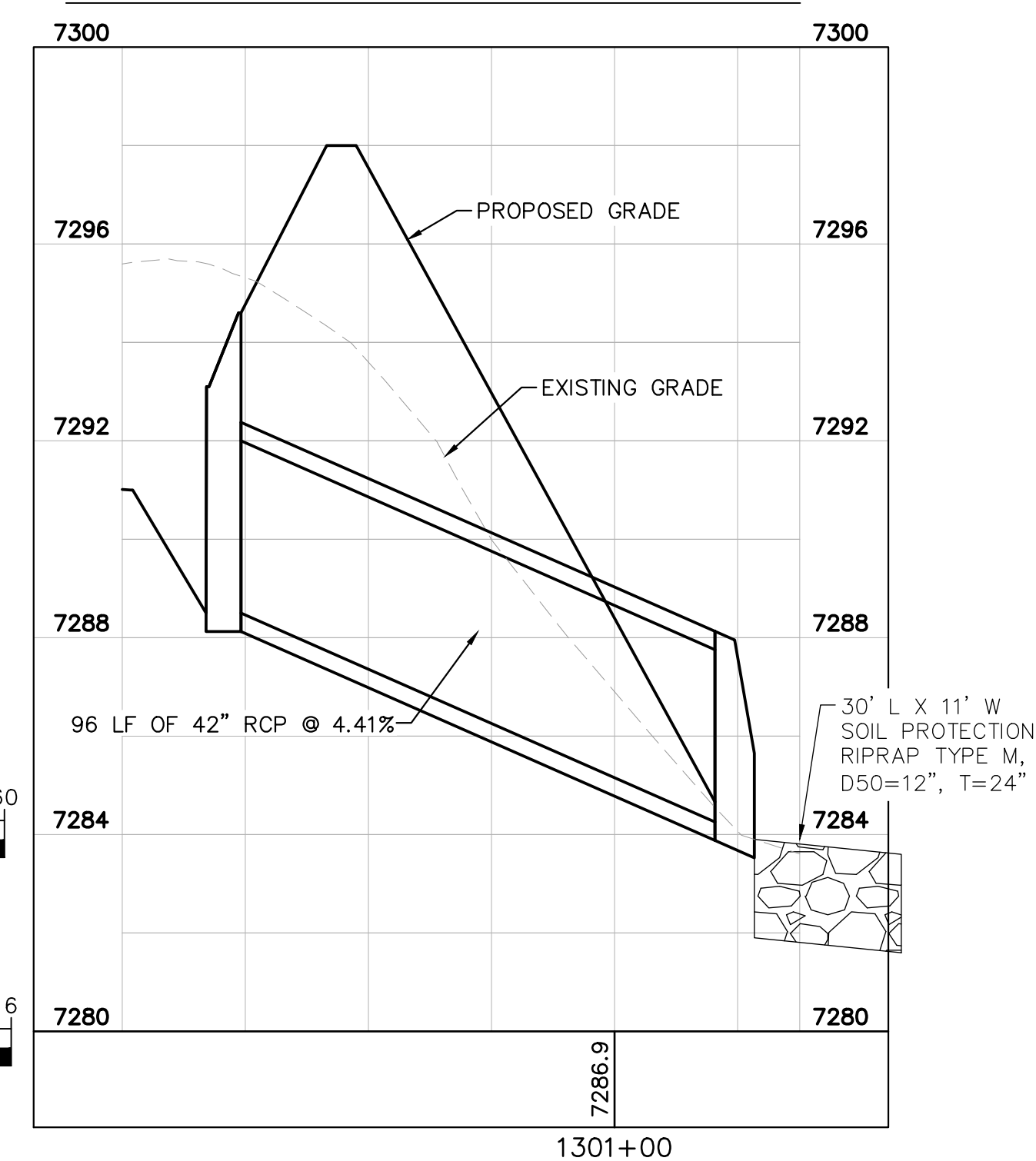
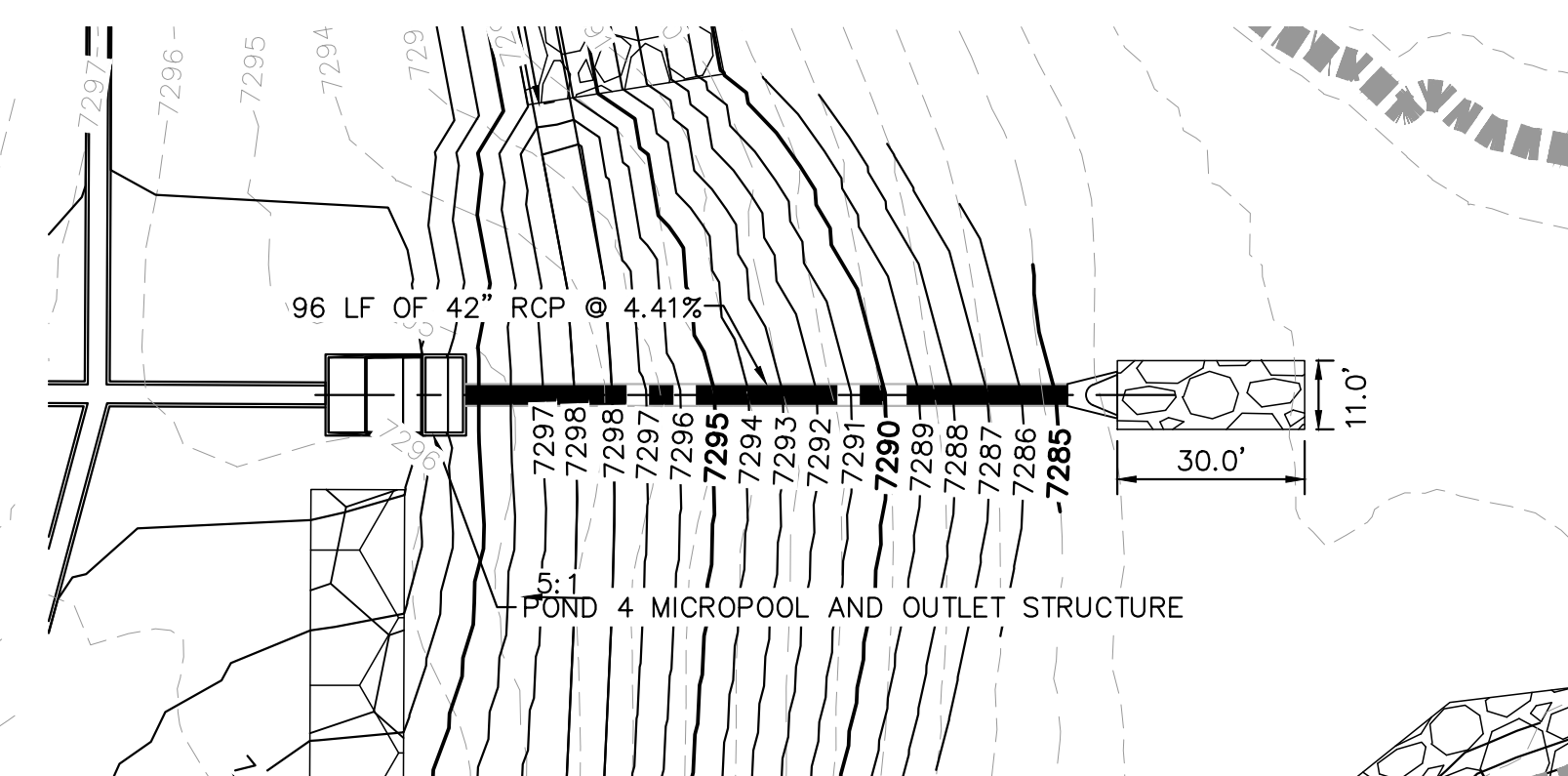
SHEET

C1.37



LEGEND

FG	FINISH GRADE
FBT	TOP OF FOREBAY AT FINISHED GRADE
FBB	BOTTOM OF FOREBAY AT FINISHED GRADE
TCT	TOP OF TRICKLE CHANNEL AT FINISHED GRADE
TCB	BOTTOM OF TRICKLE CHANNEL AT FINISHED GRADE
MPT	TOP OF MICROPOOL AT FINISHED GRADE
MPB	BOTTOM OF MICROPOOL AT FINISHED GRADE
GRATE	OUTLET STRUCTURE GRATE ELEVATION
ME	MATCH EXISTING
PT	TOP OF STEEL PLATE AT FINISHED GRADE
PB	BOTTOM OF STEEL PLATE AT FINISHED GRADE
	FLOODPLAIN LIMITS
	TOP OF POND
	PROPOSED STORM SEWER



Know what's **below**.
● **Call** before you dig.



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POND 4 OVERVIEW

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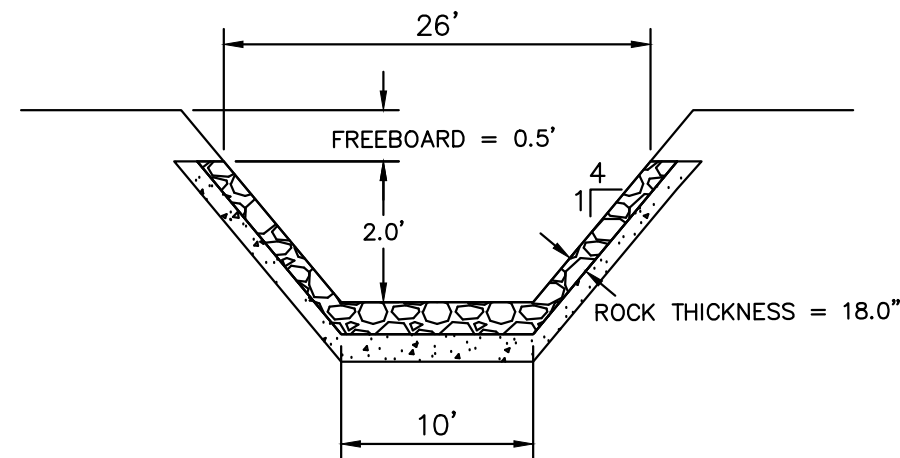
C1.38

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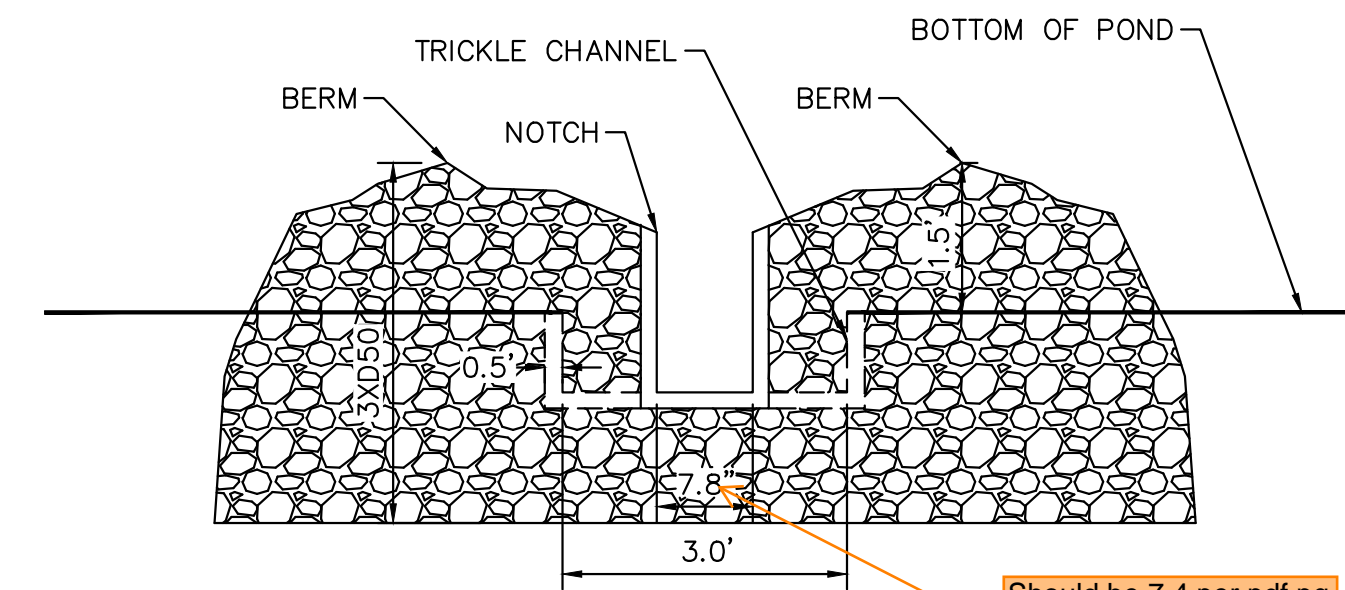
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DATE: 12/16/2021

NO	REVISION	BY	DATE	APP

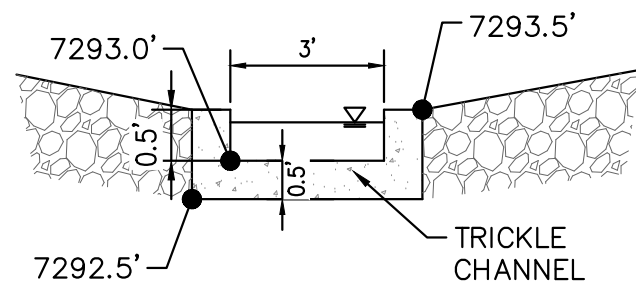
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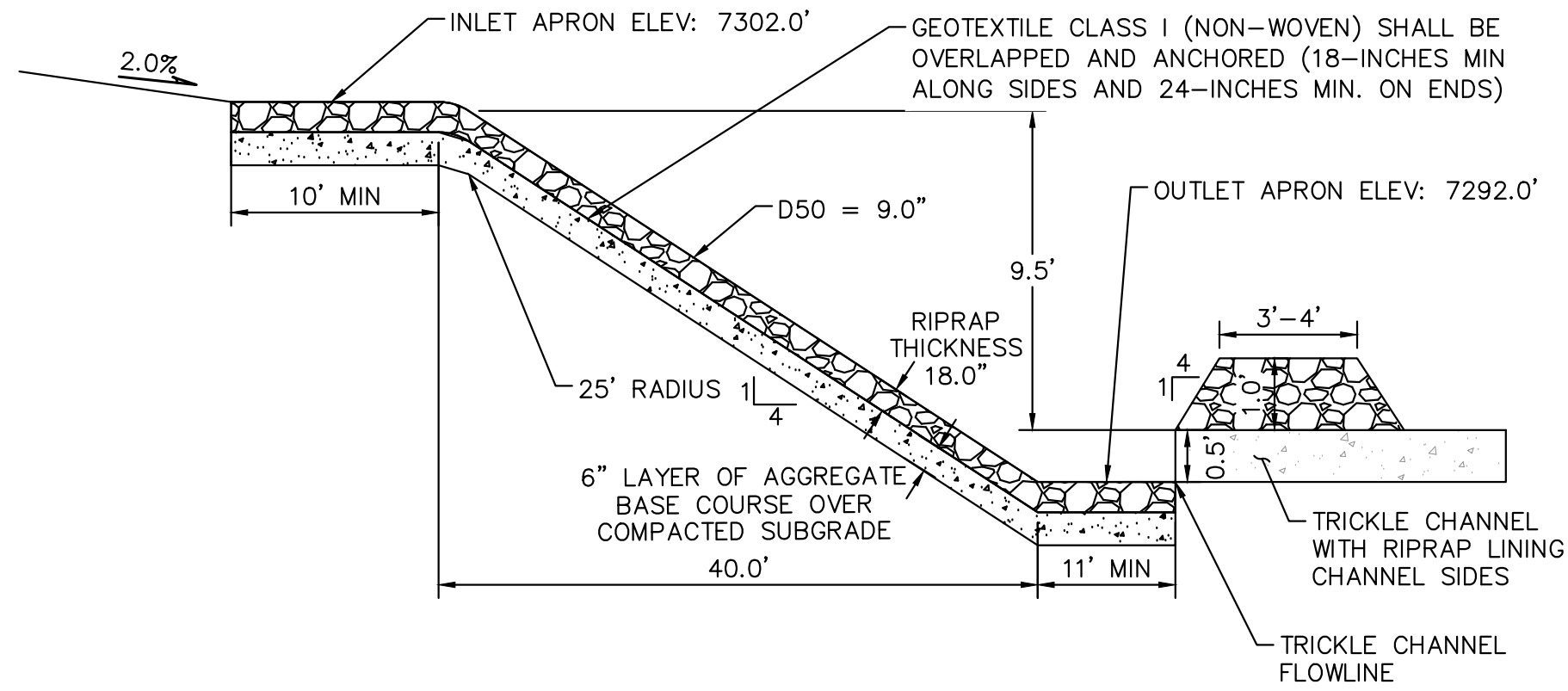
11 **ROCK CHUTE #11 PROFILE- CROSS SECTION 2**
N.T.S.



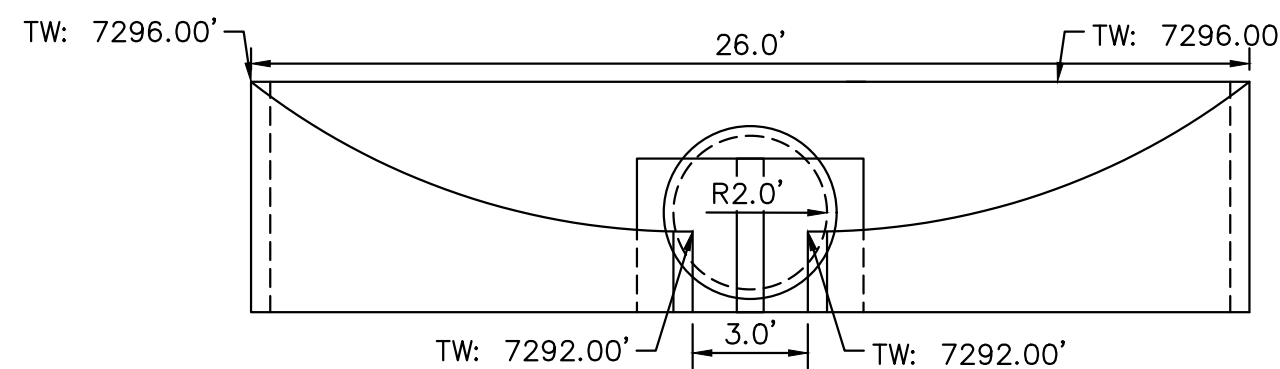
11 **ROCK CHUTE #11 PROFILE- CROSS SECTION 2**
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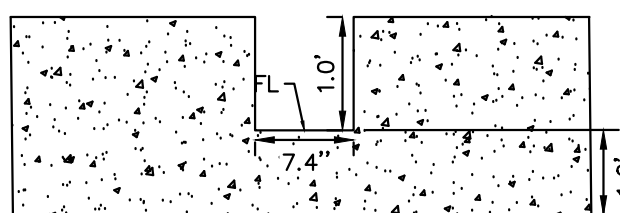
12 **ROCK CHUTE TO TRICKLE CHANNEL TRANSITION**
N.T.S.



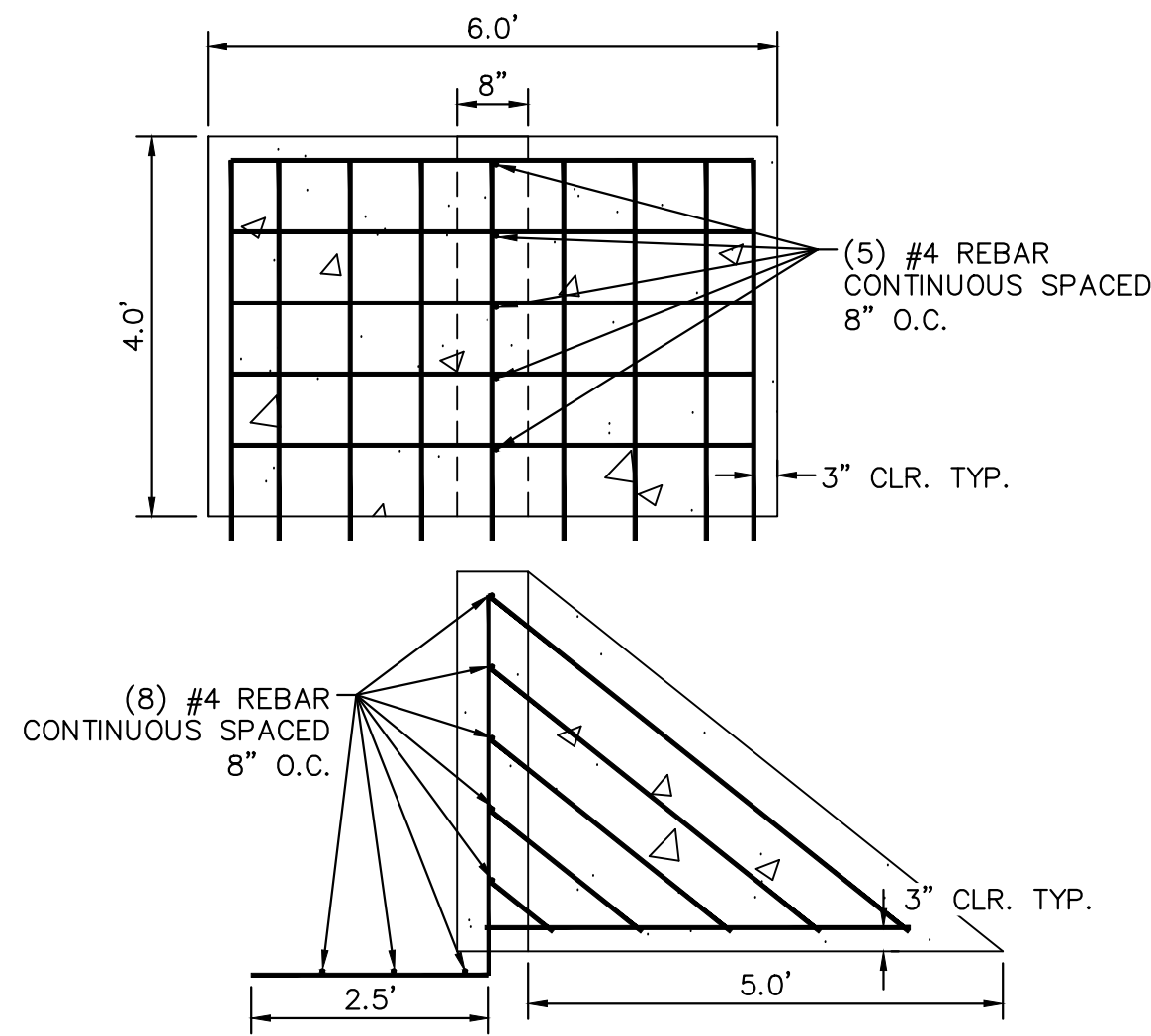
10 **ROCK CHUTE #11 PROFILE- CROSS SECTION 1**
N.T.S.



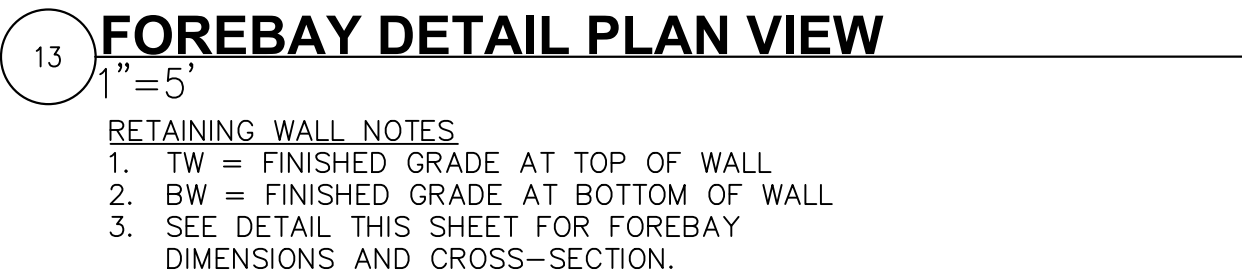
13 **FOREBAY SECTION VIEW**
1"=5'
RETAINING WALL NOTES
1. TW = FINISHED GRADE AT TOP OF WALL.
2. BW = FINISHED GRADE AT BOTTOM OF WALL.
3. SEE DETAIL THIS SHEET FOR FOREBAY DIMENSIONS AND CROSS-SECTION.



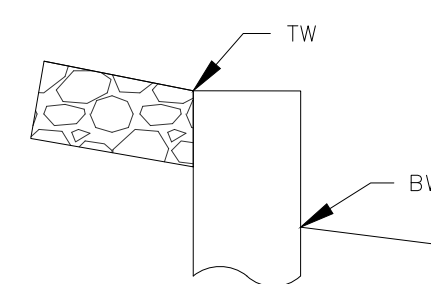
A **FOREBAY NOTCH DETAIL**
N.T.S.



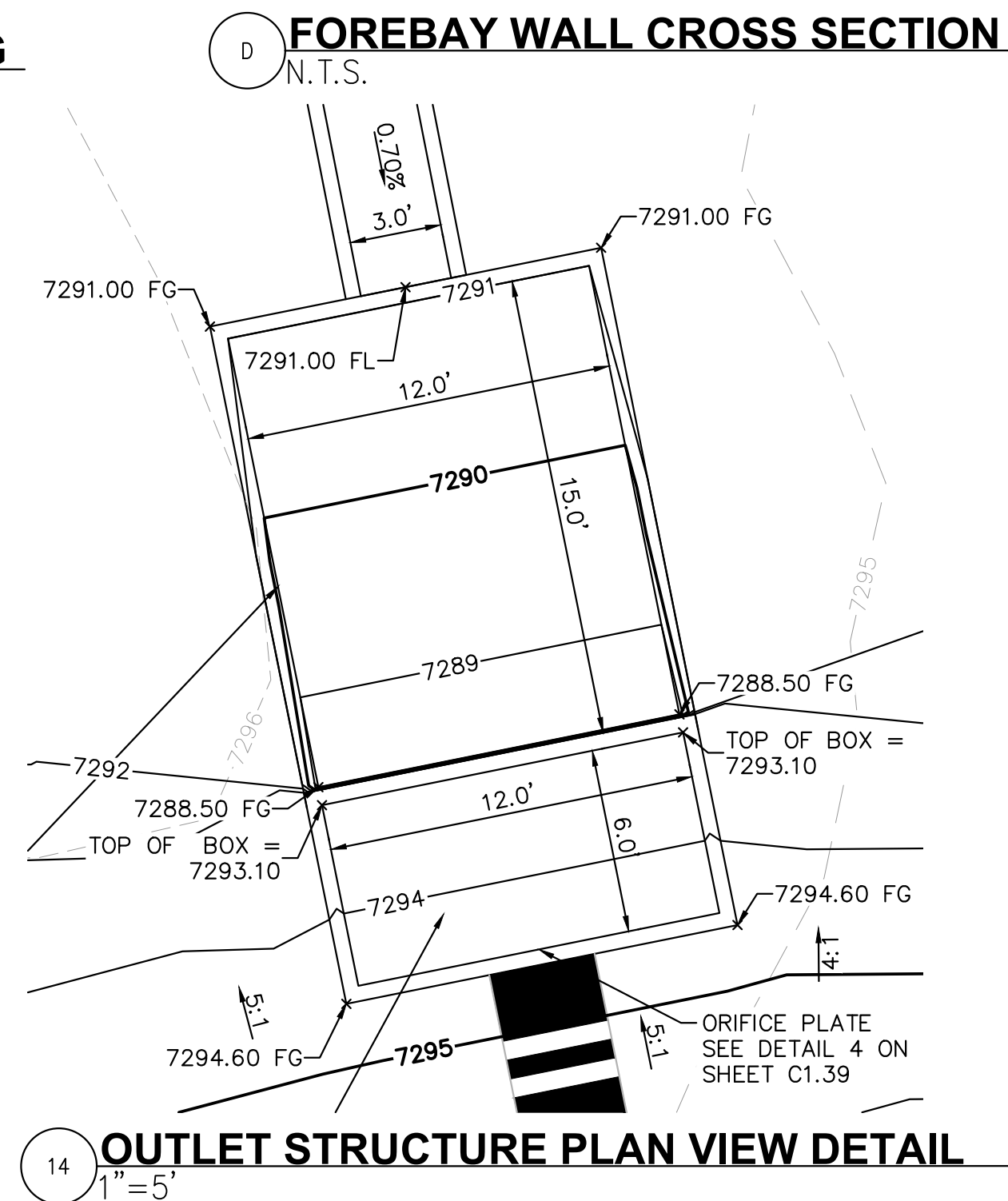
C **FOREBAY DISSIPATER DETAIL**
1"=2'



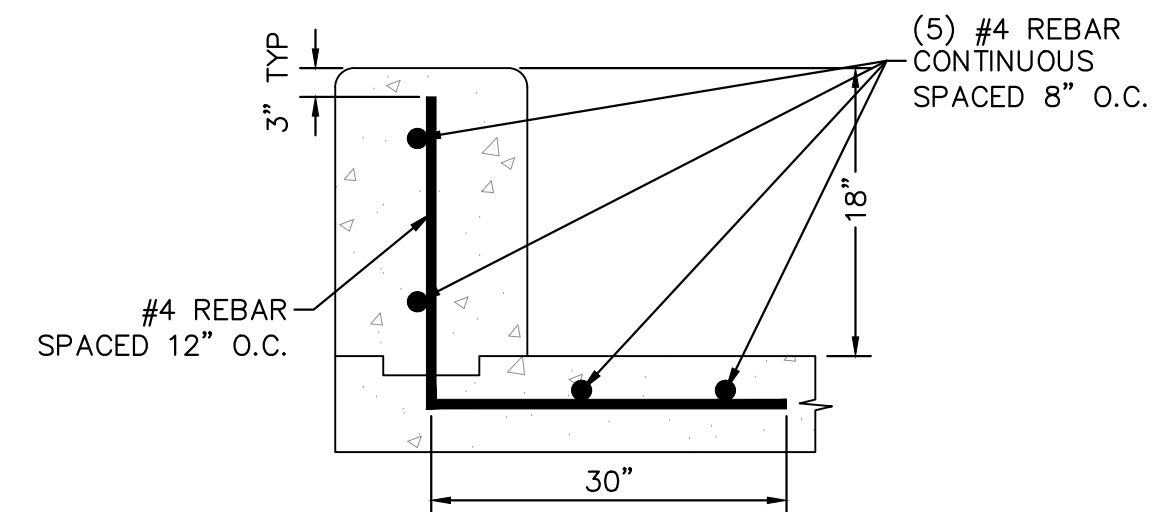
13 **FOREBAY DETAIL PLAN VIEW**
1"=5'



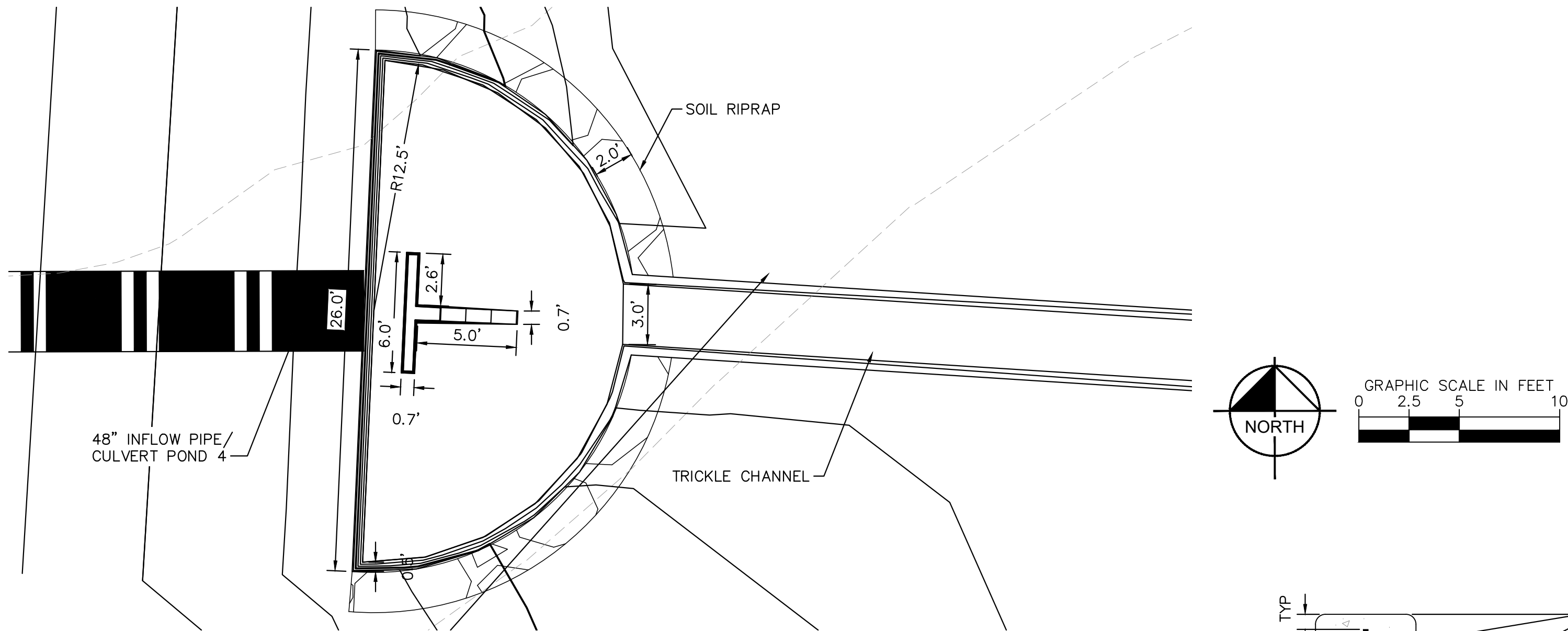
B **SECTION A-A FOREBAY WALL WITH REINFORCING**
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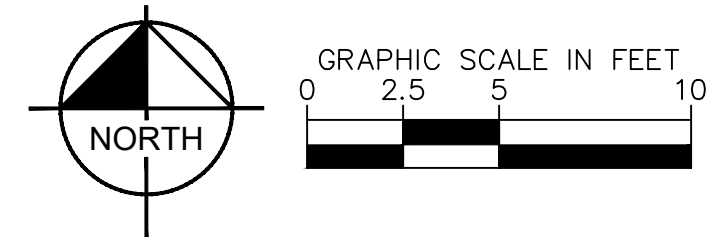
14 **OUTLET STRUCTURE PLAN VIEW DETAIL**
1"=5'



D **FOREBAY WALL CROSS SECTION**
N.T.S.



13 **FOREBAY DETAIL PLAN VIEW**
1"=5'



Rock Chute ID	Channel Location	Flow (cfs)	Upstream Inlet Apron Length (ft)	Drop (ft) (Inlet Apron to Outlet Apron)	Chute Length (ft)	Downstream Outlet Apron Length (ft)	Chute Width (ft)	D50 (in)	Rock Chute Thickness (in)	Radius (ft)	Min Rock Chute Depth (ft)	Rock Chute Depth (ft)	Top Chute Width (ft)
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12	WQ Pond	100	11	5	20	20	12	18	36	50	1.81	2.00	28
13	WQ Pond	57	10	3	12	16	10	18	36	50	1.38	1.50	26

15 **STANDARD ROCK CHUTE DIMENSION TABLE**
N.T.S.

1. SEE GRADING PLANS FOR ROCK CHUTE LOCATIONS

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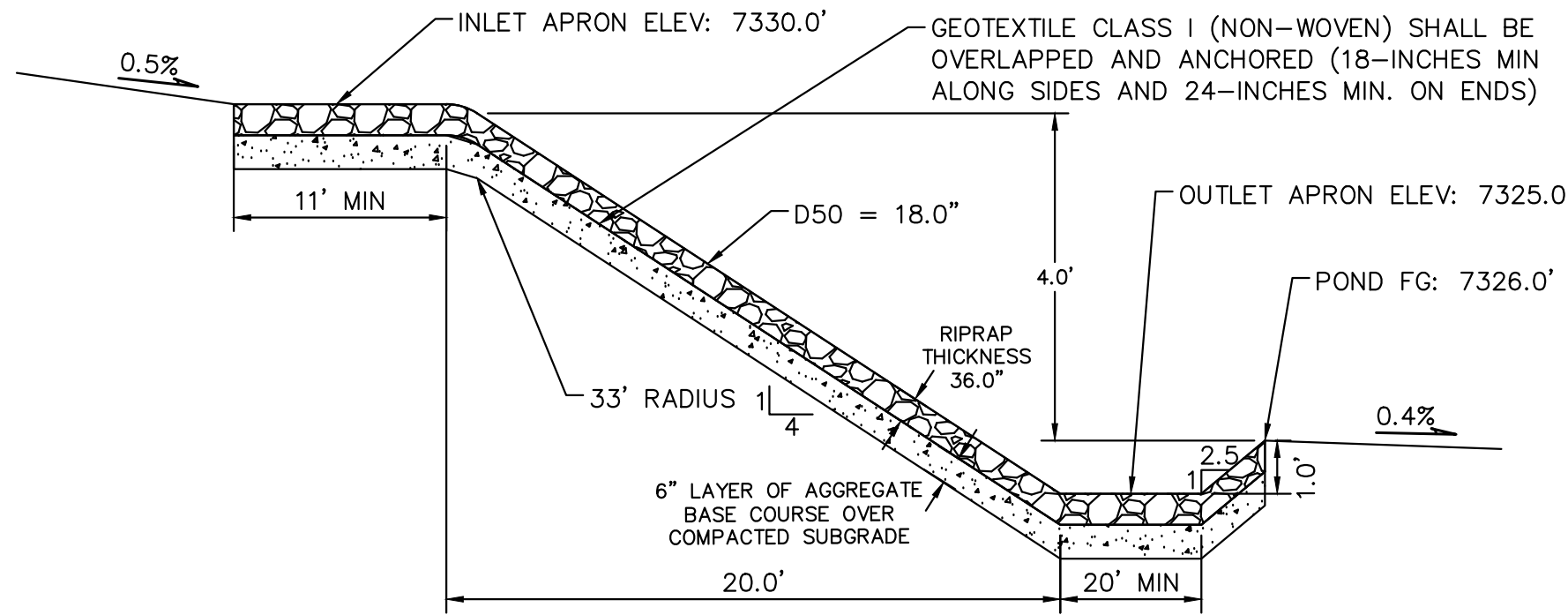
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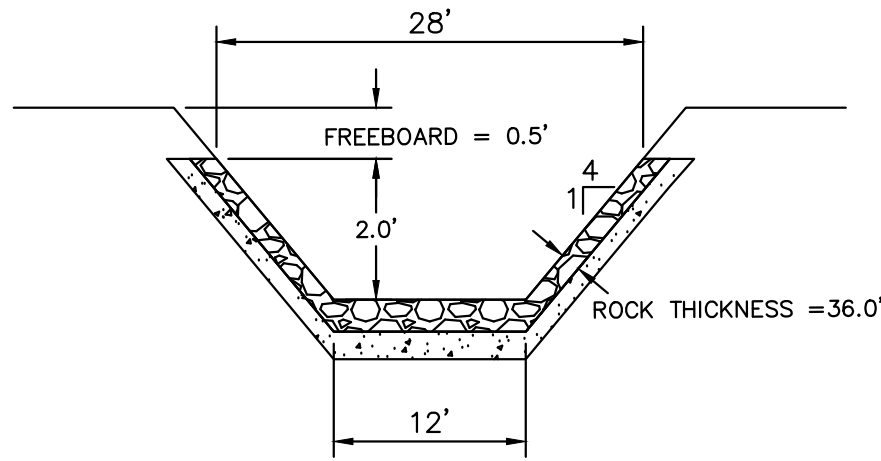
SHEET

C1.40

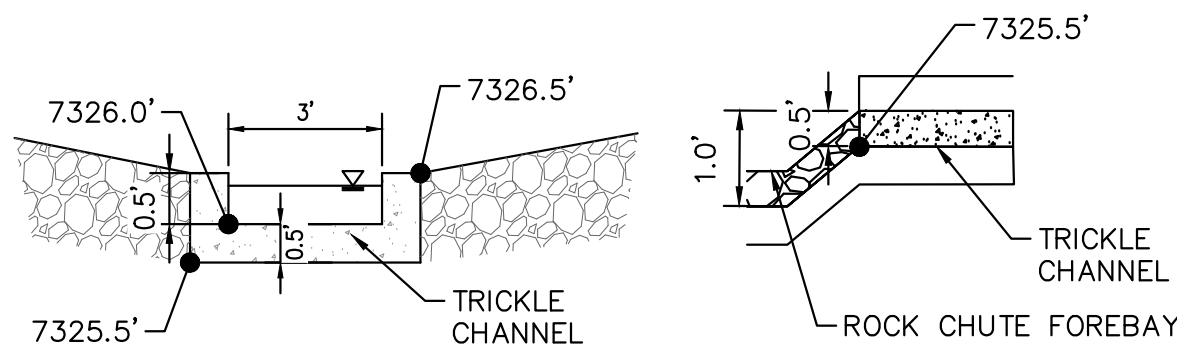
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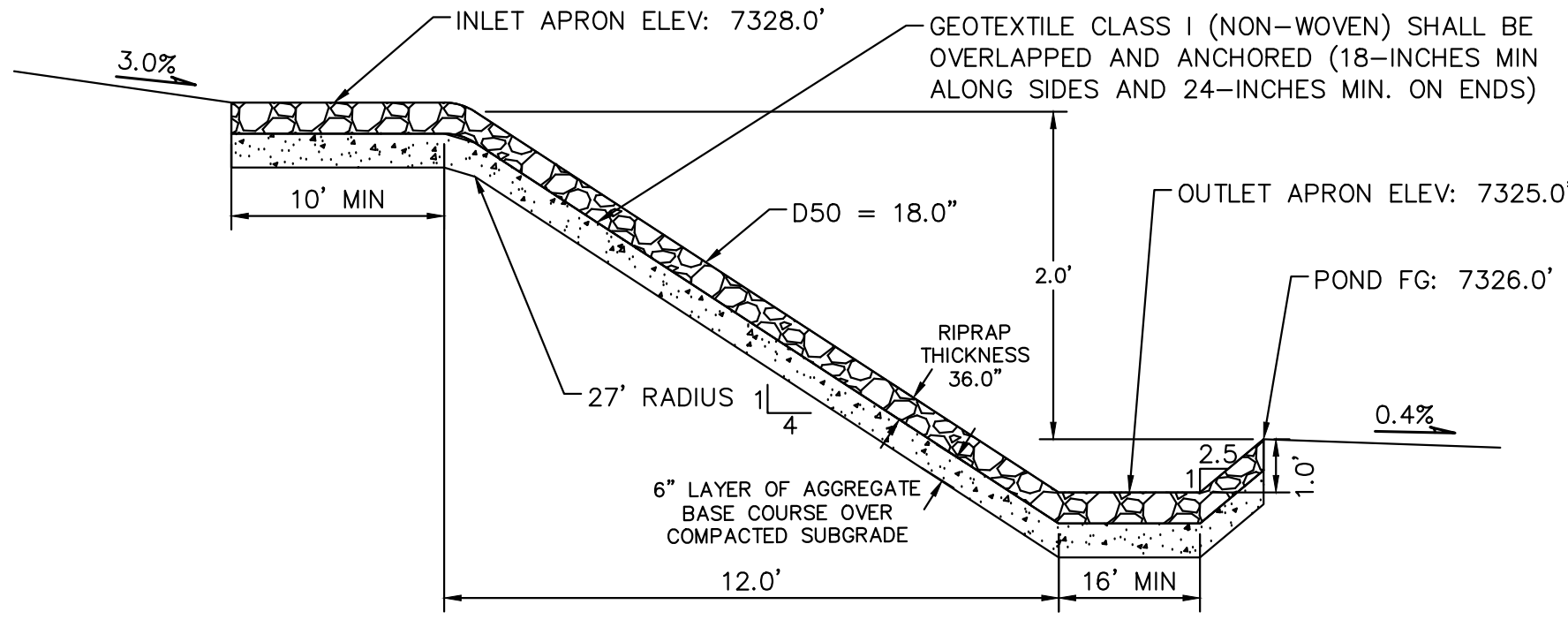
9 **ROCK CHUTE #12 PROFILE- CROSS SECTION 1**
N.T.S.



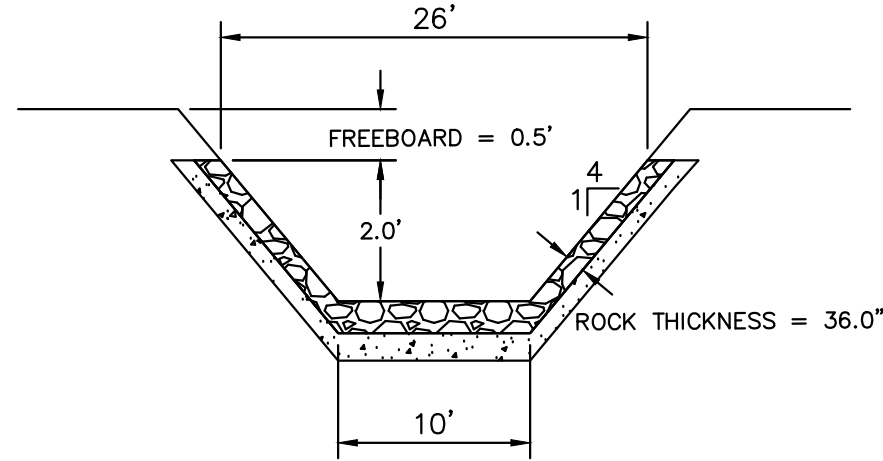
10 **ROCK CHUTE #12 PROFILE- CROSS SECTION 2**
N.T.S.



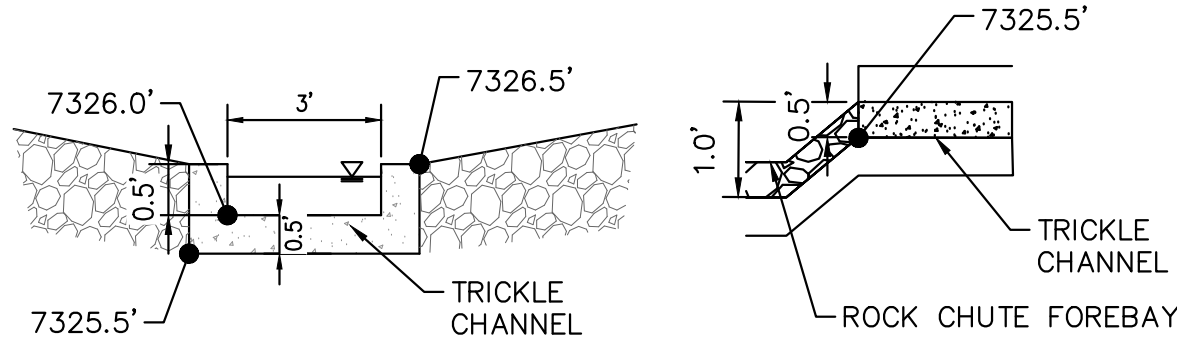
11 **ROCK CHUTE #12 TO TRICKLE CHANNEL TRANSITION**
N.T.S.



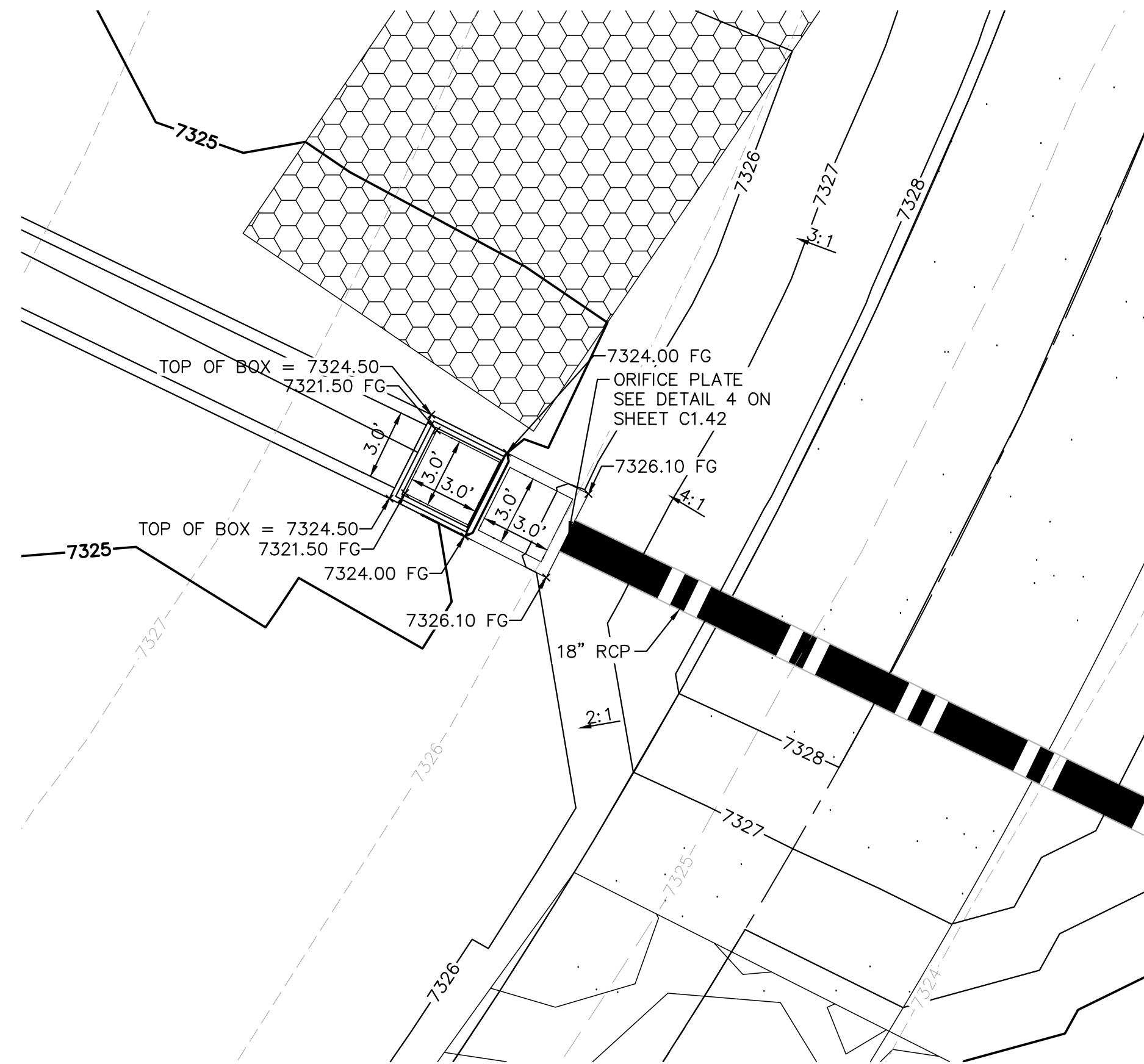
12 **ROCK CHUTE #13 PROFILE- CROSS SECTION 1**
N.T.S.



13 **ROCK CHUTE #13 PROFILE- CROSS SECTION 2**
N.T.S.



14 **ROCK CHUTE #13 TO TRICKLE CHANNEL TRANSITION**
N.T.S.



15 **OUTLET STRUCTURE PLAN VIEW DETAIL**
1"=5'



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WQ POND A DETAILS

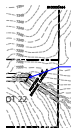
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SHEET

C1.43

Construction Drawings_V2-redline.pdf Markup Summary

dsdlaforce (1)

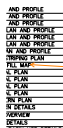


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Author: dsdlaforce
Date: 4/6/2023 5:20:22 PM
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Color: ■
Layer:
Space:

Unresolved from Review #1: Headcutting mitigation did not include this segment. Is there no concerns for continued erosion? Address in the drainage report.

In the drainage report provide a summary of the results of the hydraulic calculations for Reach I2.

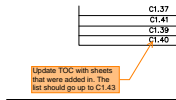
Glenn Reese - EPC Stormwater (18)



Subject: SW - Textbox with Arrow
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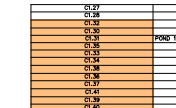
cut and fill map is C1.21

check all other titles vs sheet numbers in this TOC.



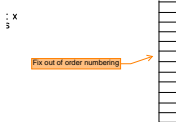
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Author: Glenn Reese - EPC Stormwater
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Update TOC with sheets that were added in. The list should go up to C1.43

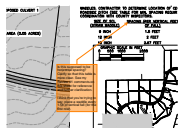


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Date: 4/3/2023 3:33:15 PM
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Fix out of order numbering



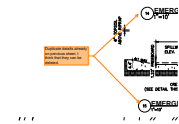
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Date: 4/3/2023 3:33:28 PM
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Space:



Subject: SW - Textbox with Arrow
Page Label: [23] C1.22 GEC FINAL PLAN
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Author: Glenn Reese - EPC Stormwater
Date: 4/4/2023 4:56:29 PM
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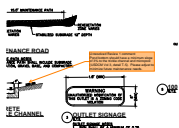
Is this supposed to be horizontal spacing? Clarify so that this table is more clear. See my Review #1 comments on this sheet for reference and further clarification.

I think that you're trying to say: place a waddle every 1.5ft of vertical fall (for the first row).



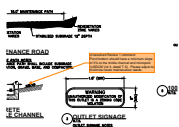
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Author: Glenn Reese - EPC Stormwater
Date: 4/4/2023 5:10:32 PM
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Color: ■
Layer:
Space:

Duplicate details already on previous sheet. I think that they can be deleted.



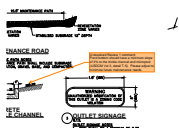
Subject: SW - Textbox with Arrow
Page Label: [37] C1.36 POND 2 DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/4/2023 5:39:09 PM
Status:
Color: ■
Layer:
Space:

Unresolved Review 1 comment:
Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.



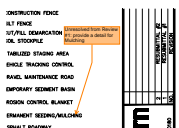
Subject: SW - Textbox with Arrow
Page Label: [40] C1.39 POND 4 DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/4/2023 5:39:33 PM
Status:
Color: ■
Layer:
Space:

Unresolved Review 1 comment:
Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.



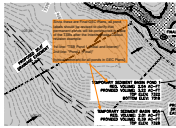
Subject: SW - Textbox with Arrow
Page Label: [43] C1.42 WQ POND A DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/4/2023 5:40:01 PM
Status:
Color: ■
Layer:
Space:

Unresolved Review 1 comment:
Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.



Subject: SW - Textbox with Arrow
Page Label: [23] C1.22 GEC FINAL PLAN
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 1:48:27 PM
Status:
Color: ■
Layer:
Space:

Unresolved from Review #1: provide a detail for Mulching



Subject: SW - Textbox with Arrow
Page Label: [23] C1.22 GEC FINAL PLAN
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 1:54:22 PM
Status:
Color: ■
Layer:
Space:

Since these are Final GEC Plans, all pond labels should be revised to clarify that permanent ponds will be constructed in place of the TSBs after the Interim phase. Callout revision example:

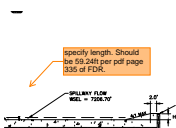
1st line: "TSB Pond 1 (Initial and Interim)"
2nd line: "Pond 1 (Final)"

[typical comment for all ponds in GEC Plans]



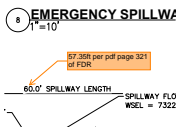
Subject: SW - Textbox
Page Label: [23] C1.22 GEC FINAL PLAN
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 1:59:16 PM
Status:
Color: ■
Layer:
Space:

Label Runoff Reduction areas on all GEC Plans



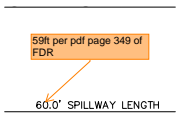
Subject: SW - Textbox with Arrow
Page Label: [37] C1.36 POND 2 DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 11:36:20 AM
Status:
Color: ■
Layer:
Space:

specify length. Should be 59.24ft per pdf page 335 of FDR.



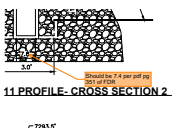
Subject: SW - Textbox with Arrow
Page Label: [34] C1.33 POND 1 DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 11:37:07 AM
Status:
Color: ■
Layer:
Space:

57.35ft per pdf page 321 of FDR



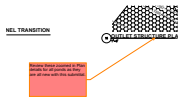
Subject: SW - Textbox with Arrow
Page Label: [40] C1.39 POND 4 DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 11:38:00 AM
Status:
Color: ■
Layer:
Space:

59ft per pdf page 349 of FDR



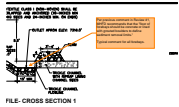
Subject: SW - Textbox with Arrow
Page Label: [41] C1.40 POND 4 DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 11:38:33 AM
Status:
Color: ■
Layer:
Space:

Should be 7.4 per pdf pg 351 of FDR



Subject: SW - Textbox with Arrow
Page Label: [35] C1.34 POND 1 DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 11:42:21 AM
Status:
Color: ■
Layer:
Space:

Review these zoomed in Plan details for all ponds as they are all new with this submittal.



Subject: SW - Textbox with Arrow
Page Label: [35] C1.34 POND 1 DETAILS
Lock: Unlocked
Author: Glenn Reese - EPC Stormwater
Date: 4/7/2023 11:43:20 AM
Status:
Color: ■
Layer:
Space:

Per previous comment in Review #1, MHFD recommends that the "floor of forebays should be concrete or lined with grouted boulders to define sediment removal limits."

Typical comment for all forebays.