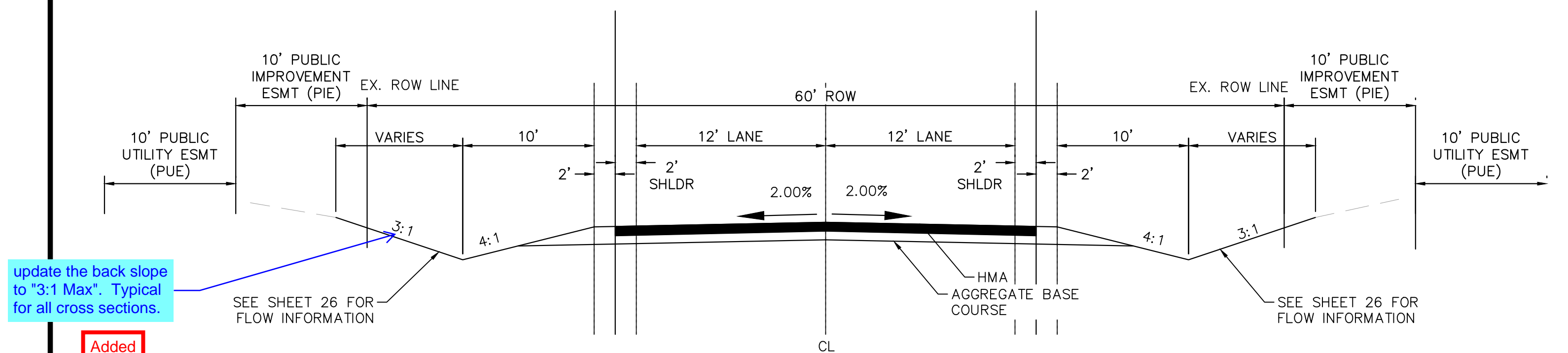




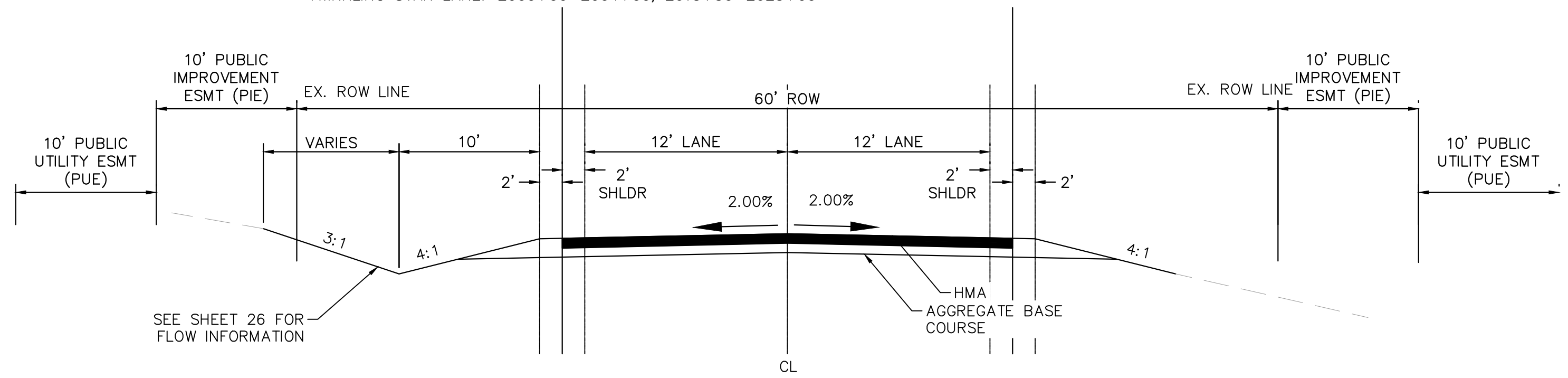


**ROADWAY CROSS SECTIONS**



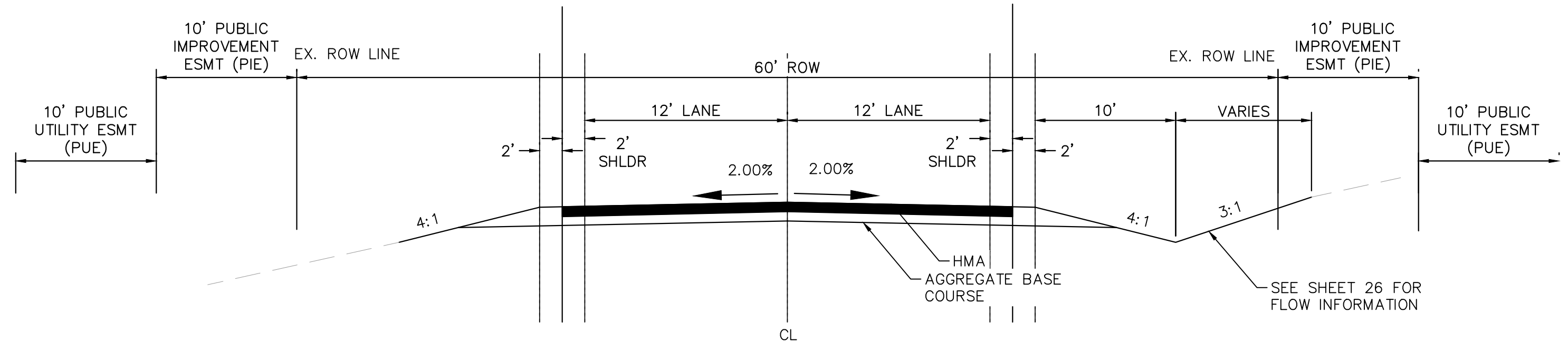
(A) RURAL LOCAL ROADWAY – ROADSIDE DITCH: LEFT AND RIGHT  
SCALE: NTS

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



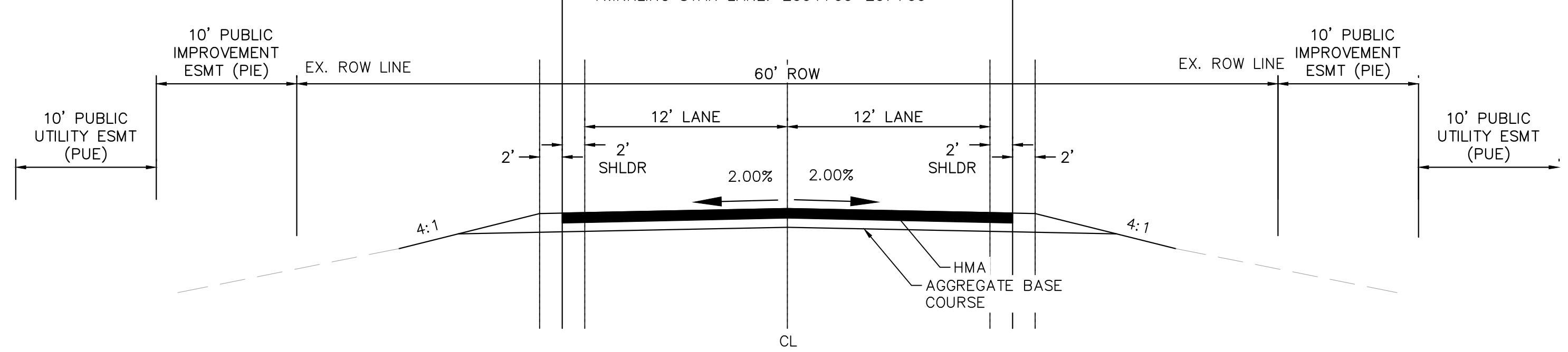
(B) RURAL LOCAL ROADWAY – ROADSIDE DITCH LEFT ONLY  
SCALE: NTS

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

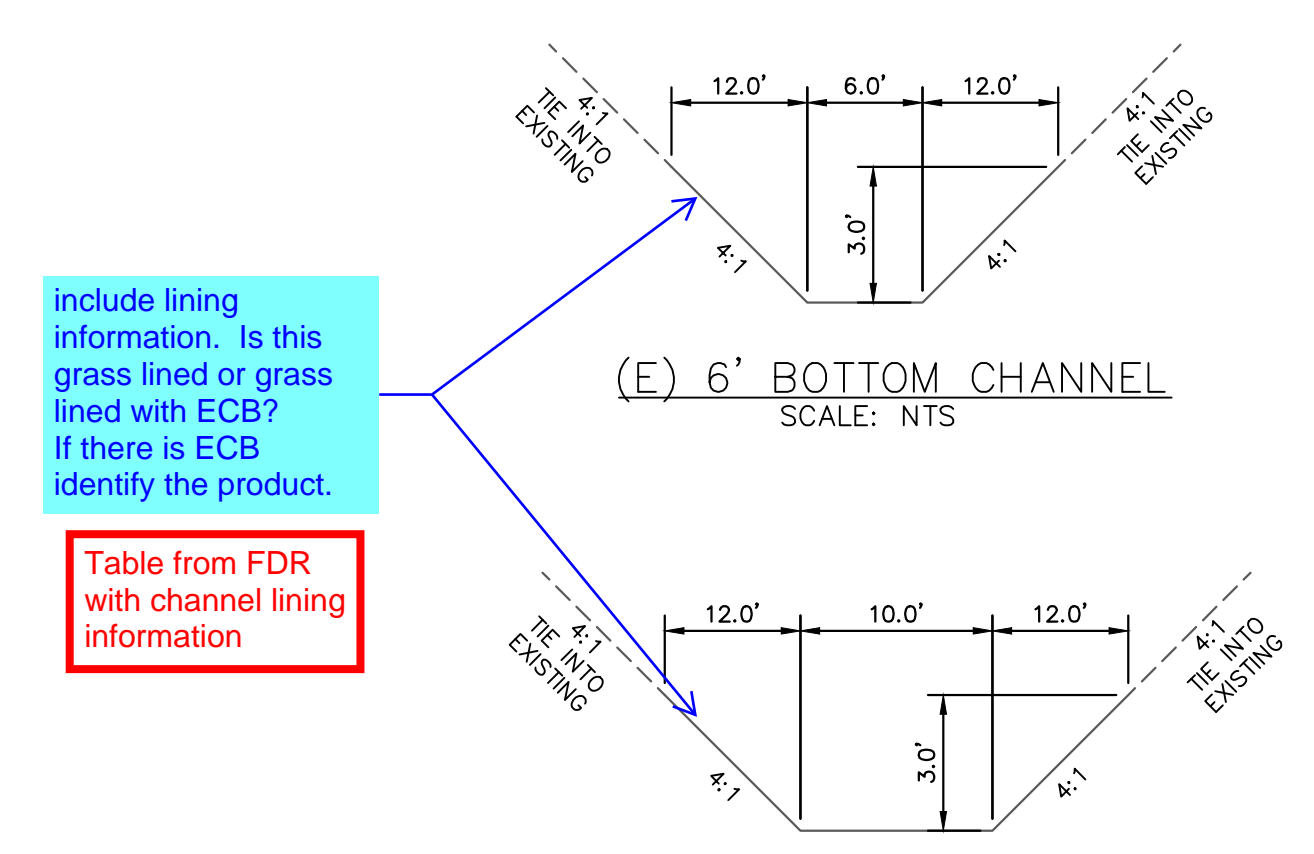
ALAMAR WAY: 1013+50–1014+50  
TWINKLING STAR LANE: 2004+00–207+00



(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

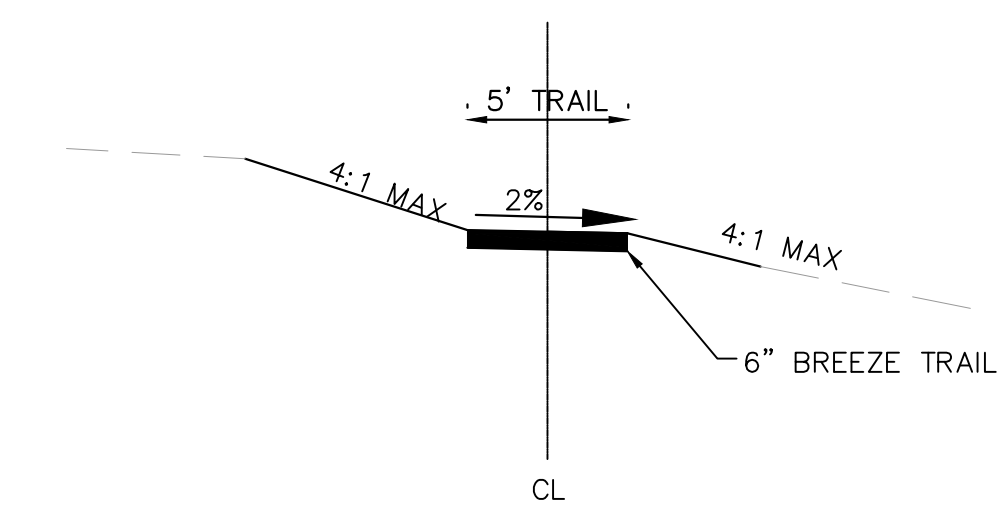
**DRAINAGE CHANNEL CROSS SECTIONS**



(E) 6' BOTTOM CHANNEL  
SCALE: NTS

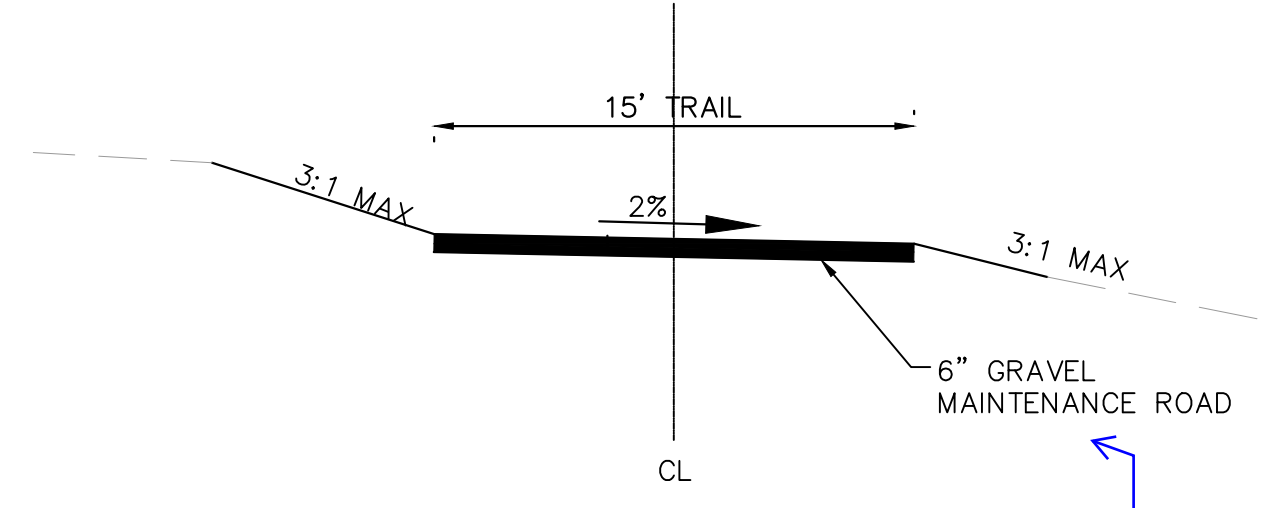
(F) 10' BOTTOM CHANNEL  
SCALE: NTS

**TRAIL CROSS SECTION**



(G) GRAVEL TRAIL  
SCALE: NTS

**MAINTENANCE ROAD CROSS SECTION**



(H) MAINTENANCE ROAD  
SCALE: NTS

Specify the gravel used.

Gravel/Aggregate is now specified

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**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: AUL  
CHECKED BY: KRK  
DATE: 12/16/2021

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

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PROJECT NO.  
196106001

SHEET

C1.2







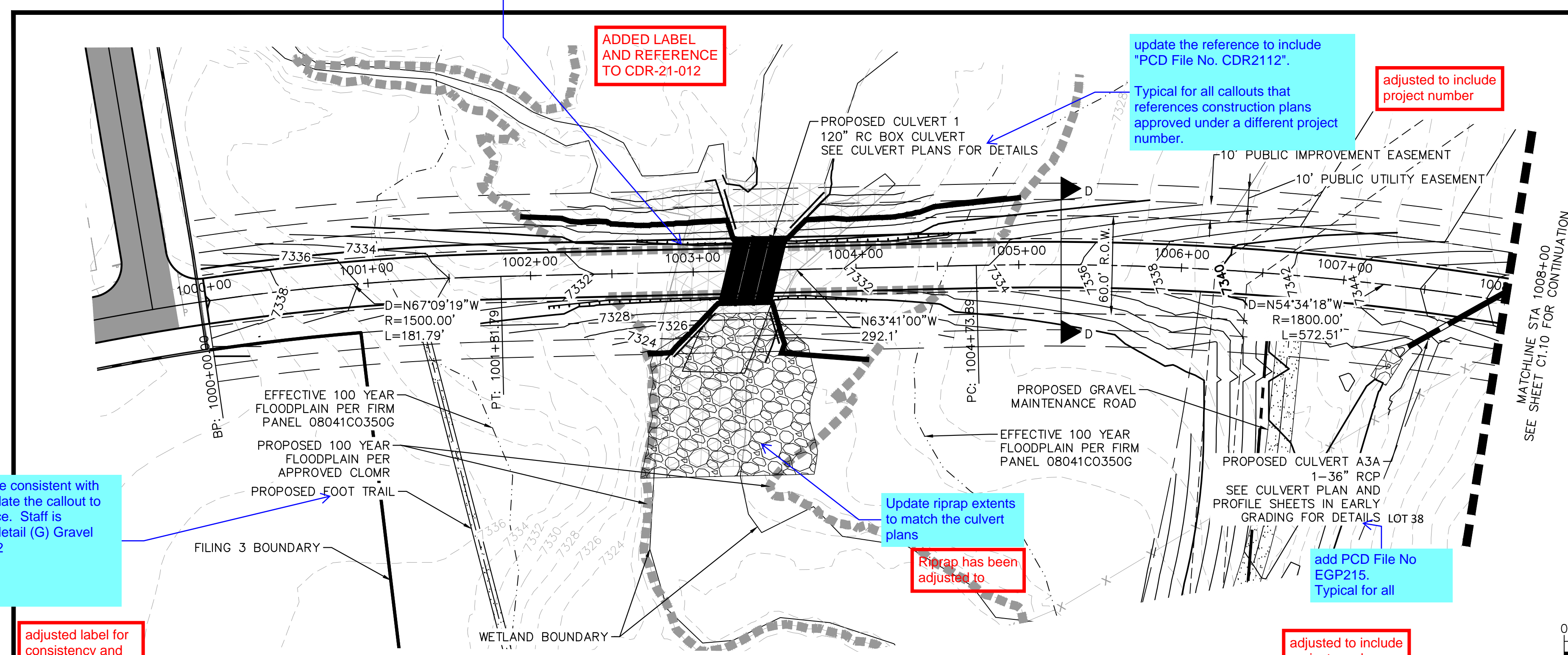






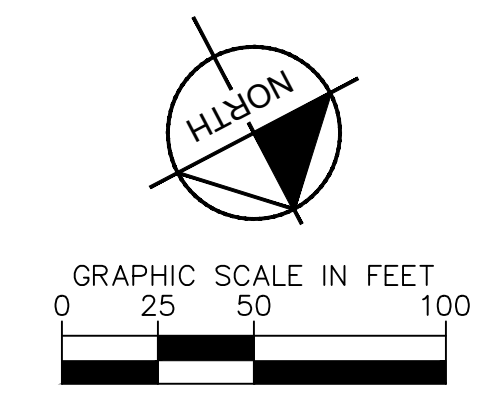


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**LEGEND**

---	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



Revise name to be consistent with the detail and update the callout to include a reference. Staff is assuming this is detail (G) Gravel Trail in sheet C1.2

label the guardrail and reference which plan contractor needs to look at for construction details or include in this plan set.

ADDED LABEL AND REFERENCE TO CDR-21-012

update the reference to include "PCD File No. CDR2112".  
Typical for all callouts that references construction plans approved under a different project number.

adjusted to include project number

Update riprap extents to match the culvert plans

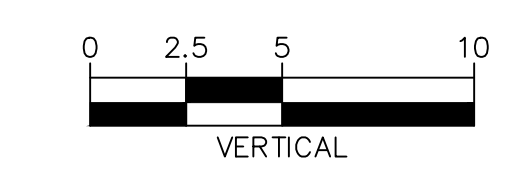
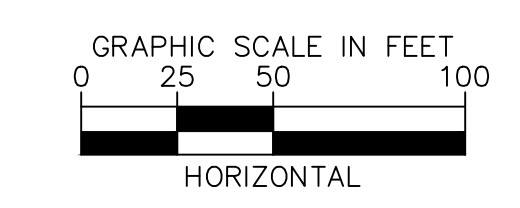
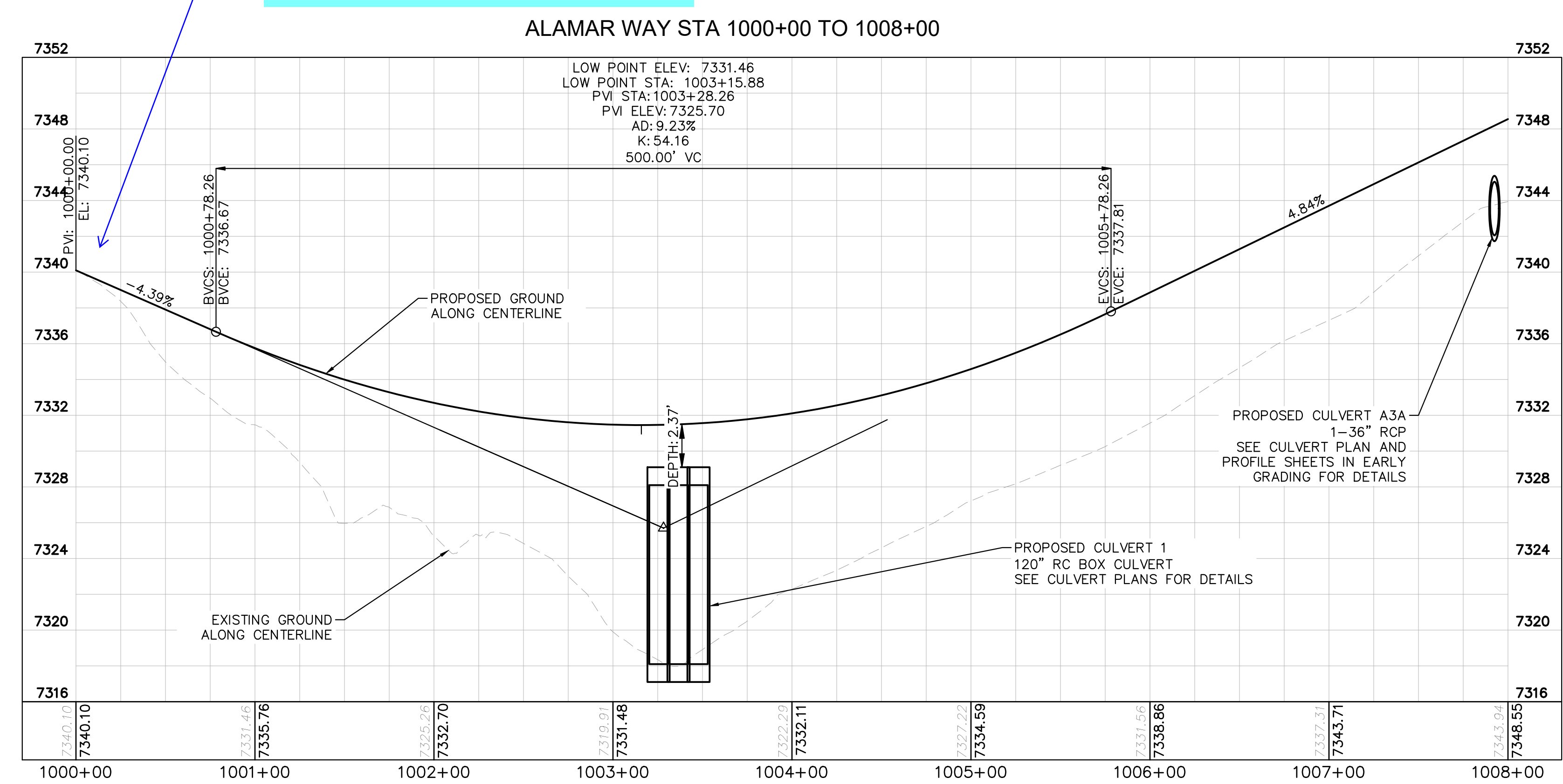
Riprap has been adjusted to

adjusted to include project number

adjusted label for consistency and included reference to C1.2

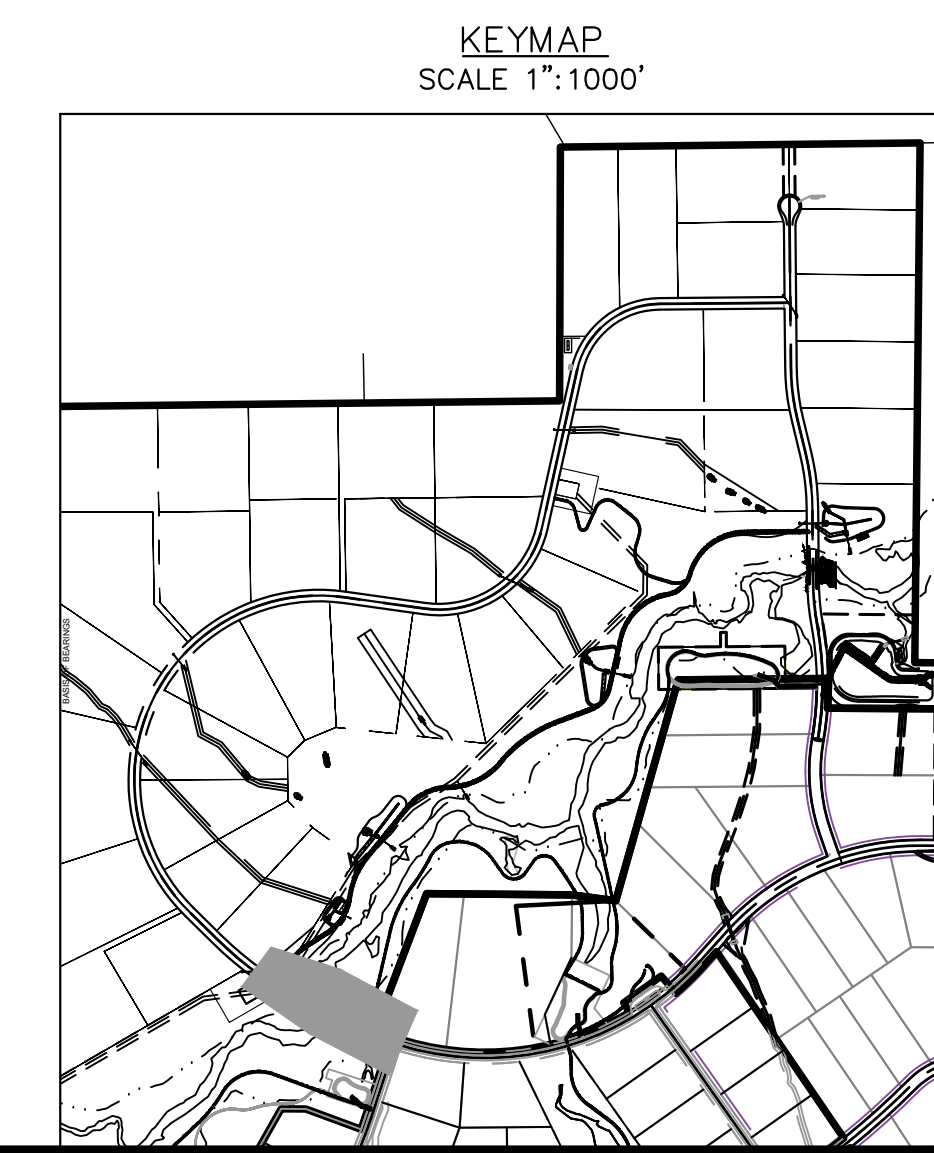
Adjust intersection grade. Per ECM Table 2-22 and 2-23 the approach grade to the intersection must be 1% min to 4% max for a distance of 100 ft.

Intersection Grade and Profile has been adjusted



**NOTES**

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



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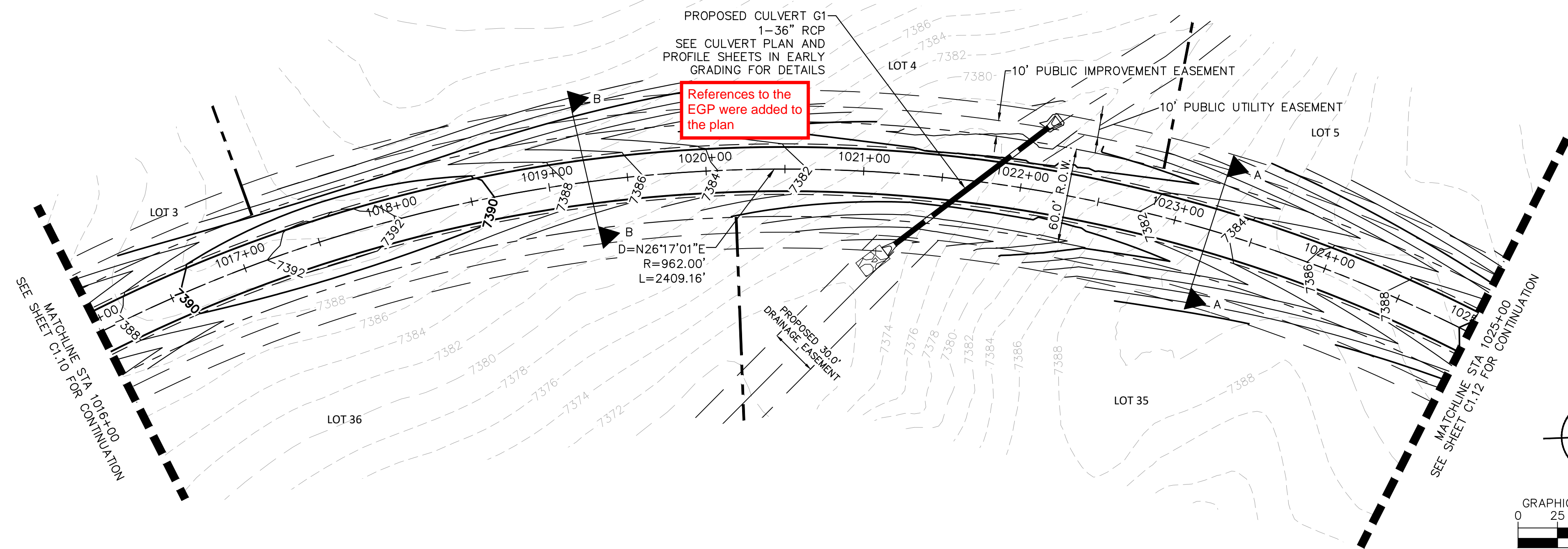
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SHEET  
**C1.9**



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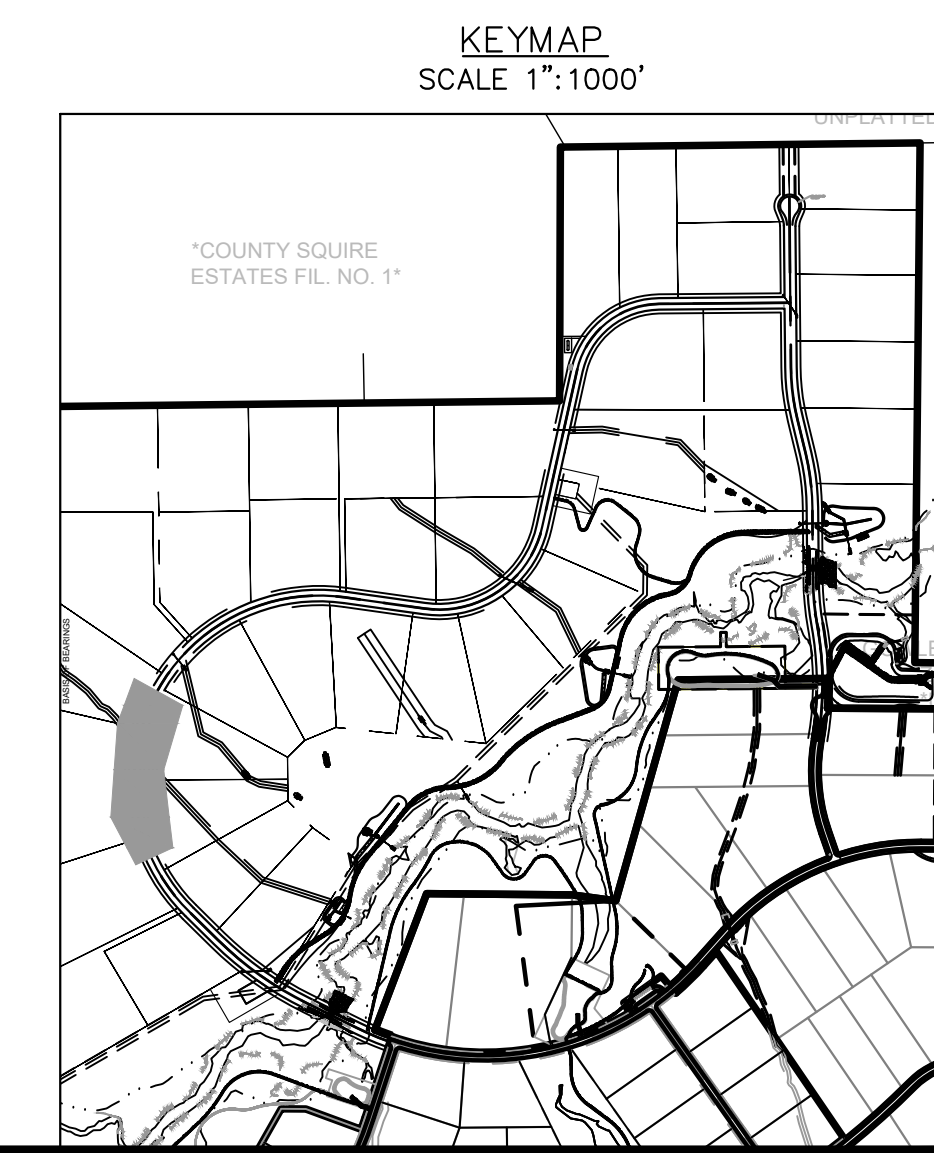
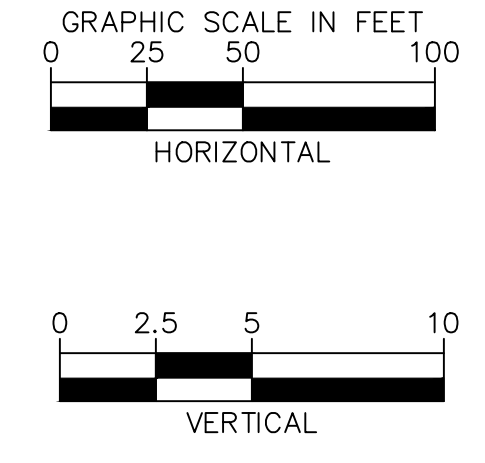
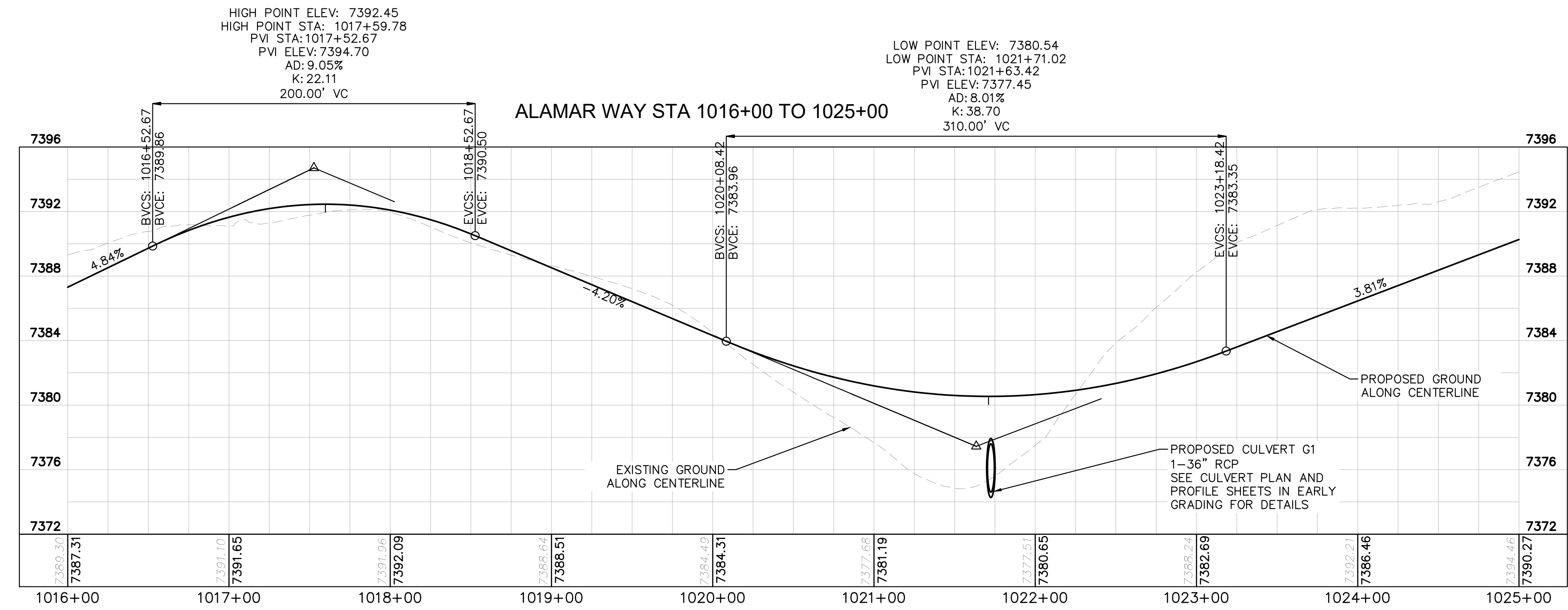
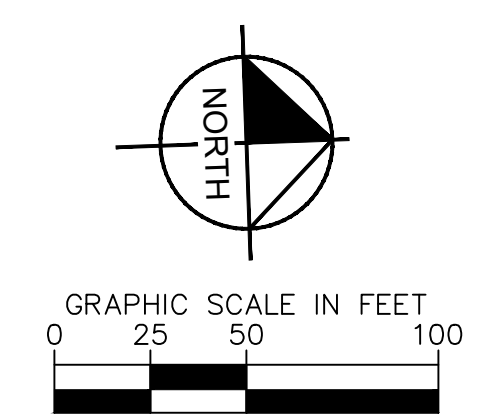


**LEGEND**

---	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.



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 Colorado Springs, Colorado 80903 (719) 453-0180

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 DRAWN BY: JRH  
 CHECKED BY: KRK  
 DATE: 9/3/2021

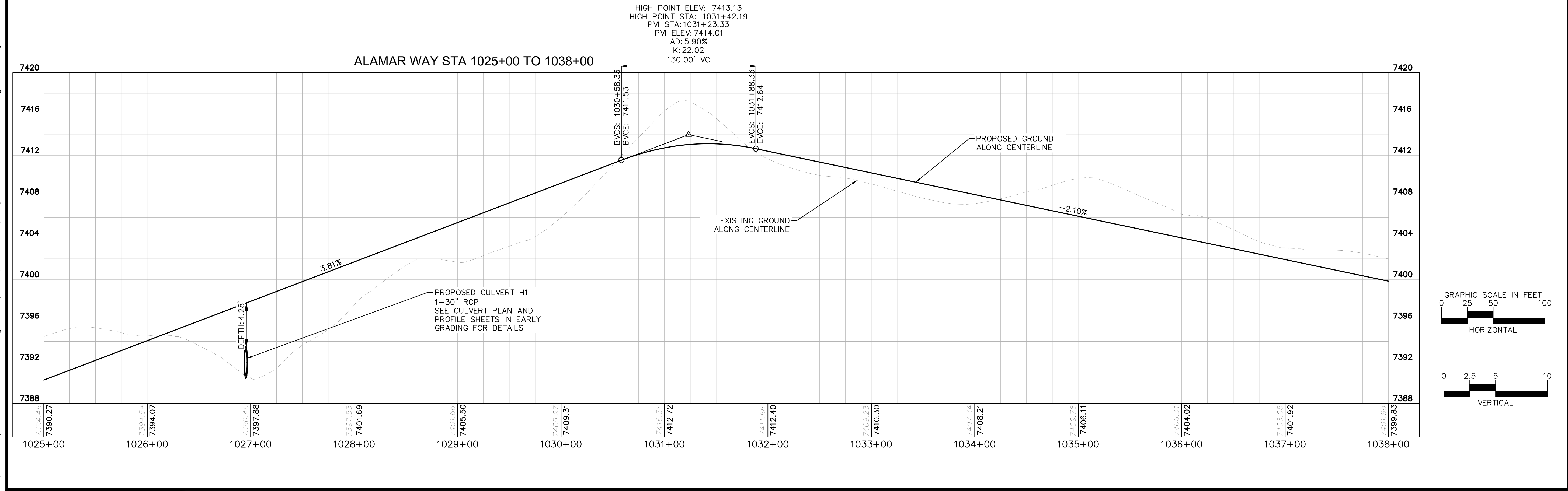
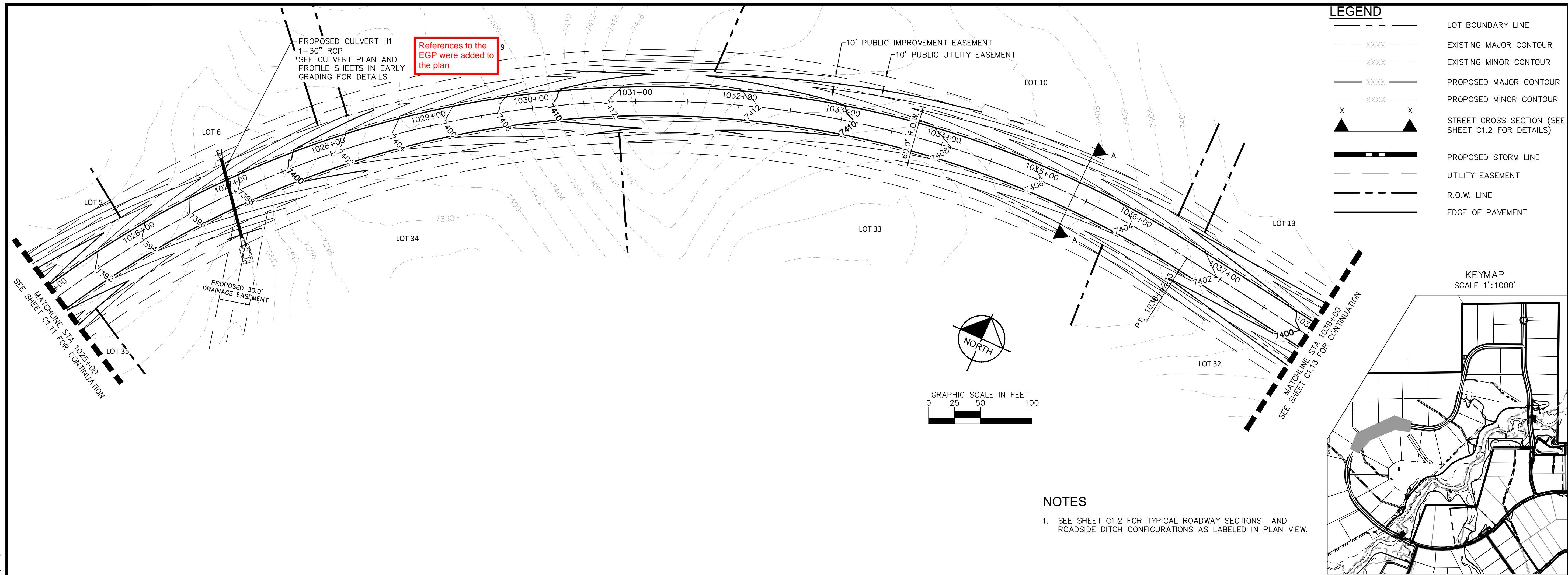
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PROJECT NO.  
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SHEET  
**C1.11**

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Colorado Springs, Colorado 80903 (719) 453-0180

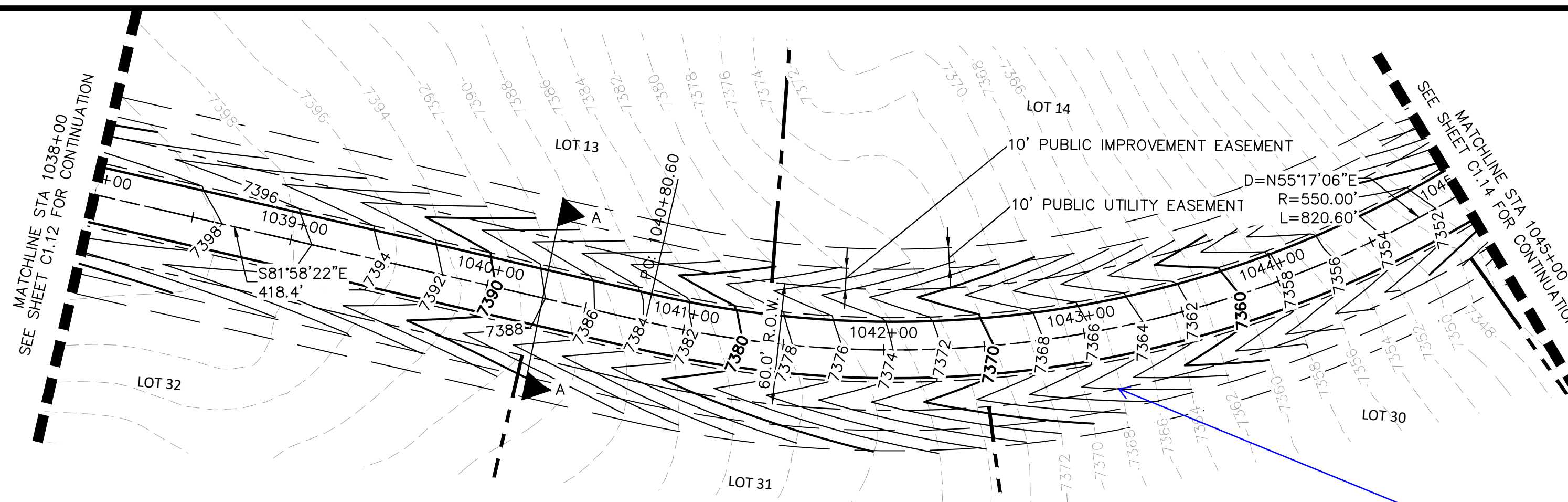
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CHECKED BY: KRK  
DATE: 9/3/2021

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PROJECT NO. 196106001  
SHEET **C1.12**

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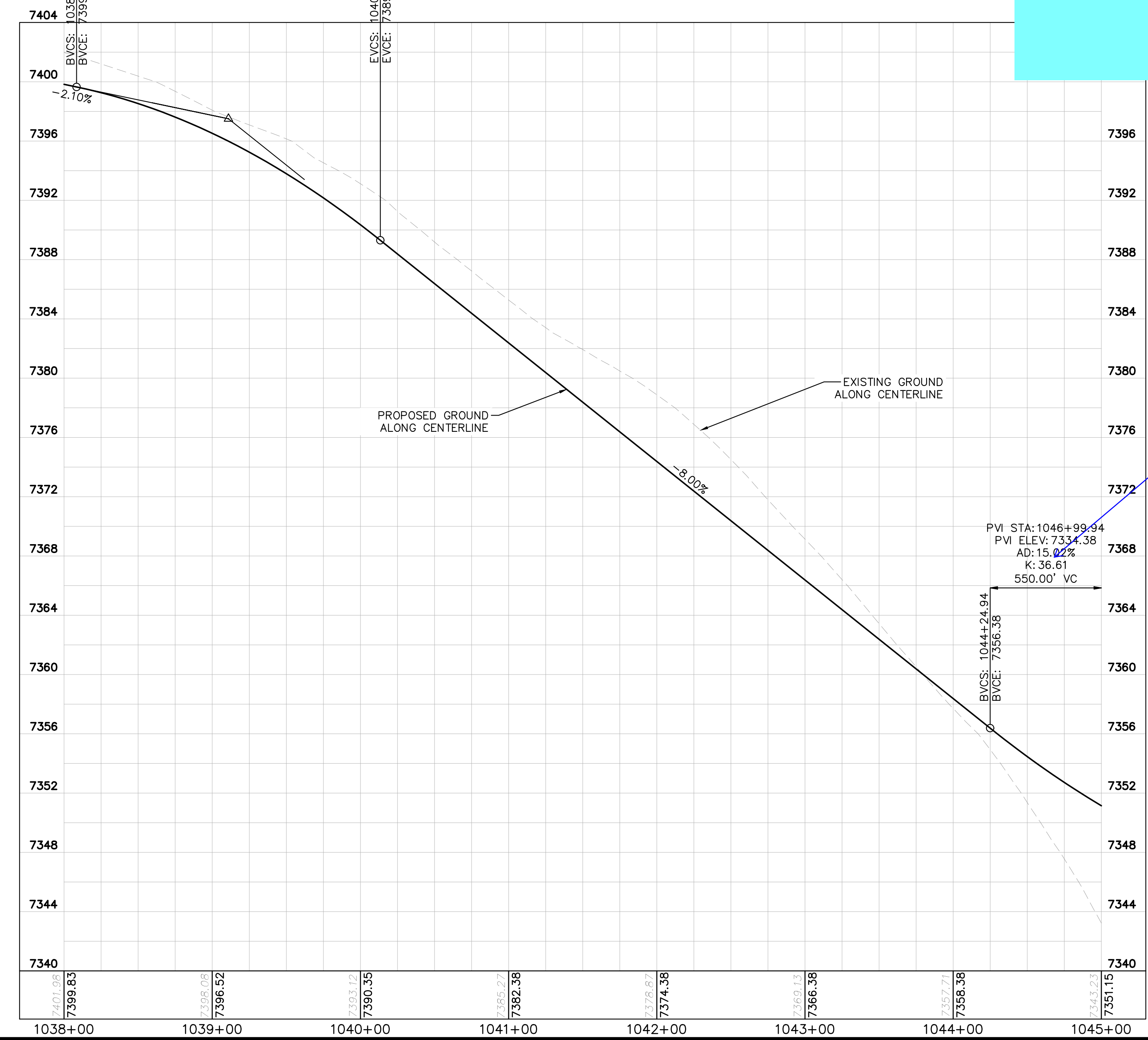


**LEGEND**

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

PVI STA: 1039+10.93  
 PVI ELEV: 7397.50  
 AD: 5.90%  
 K: 34.72  
 205.00' VC

**ALAMAR WAY STA 1038+00 TO 1045+00**



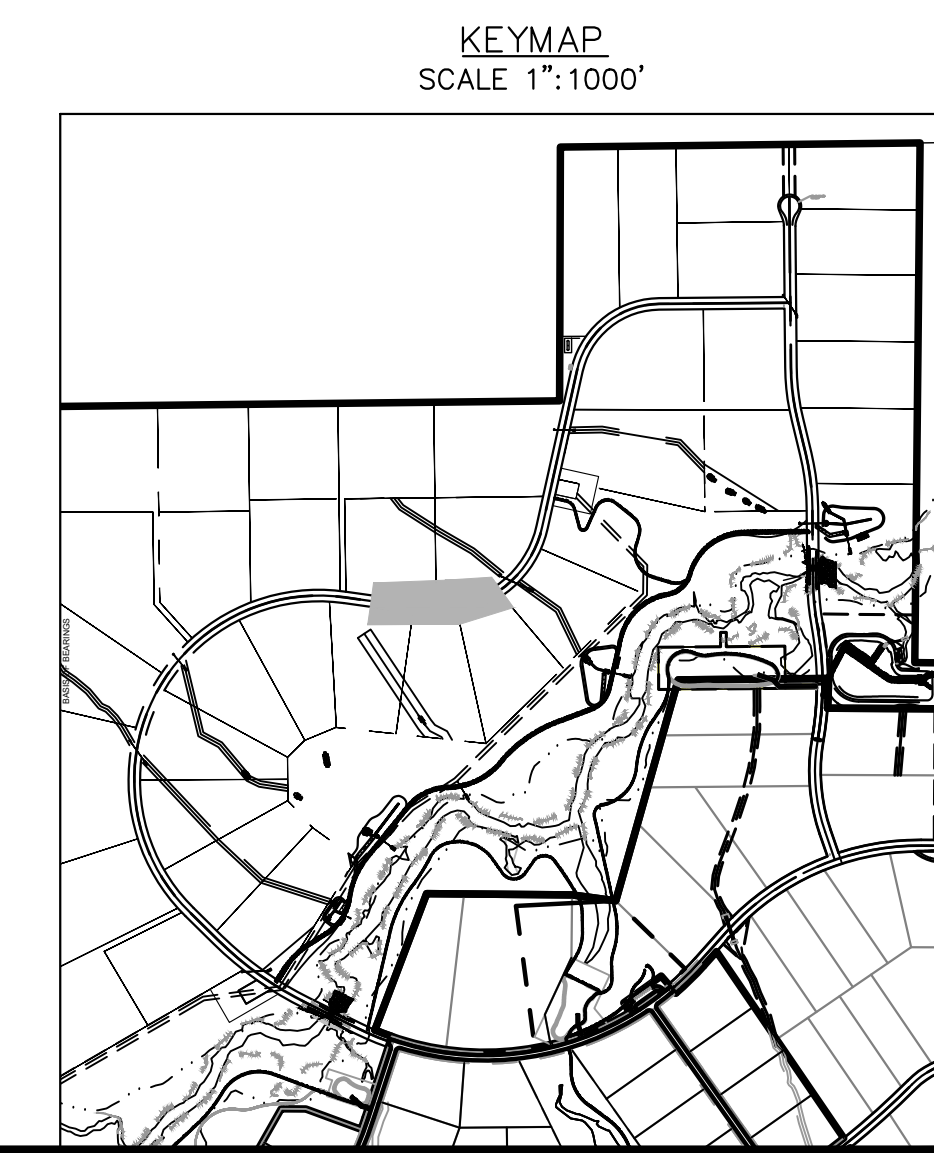
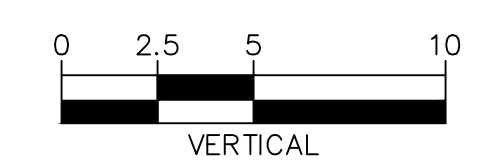
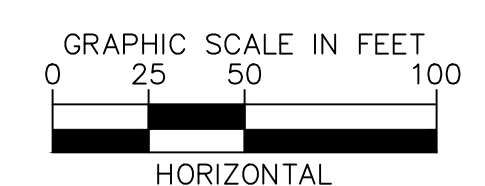
Double check that either this plans or the early grading plans identifies the sections of the road that requires Erosion Control Blanket.

Erosion Control Blankets and other temporary stabilization are outlined in the EGP plans. Permanent stabilization and lining are outlined on C1.2

Adjust K value to a minimum of 37 per Table 2-14  
 Adjusted

**NOTES**

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



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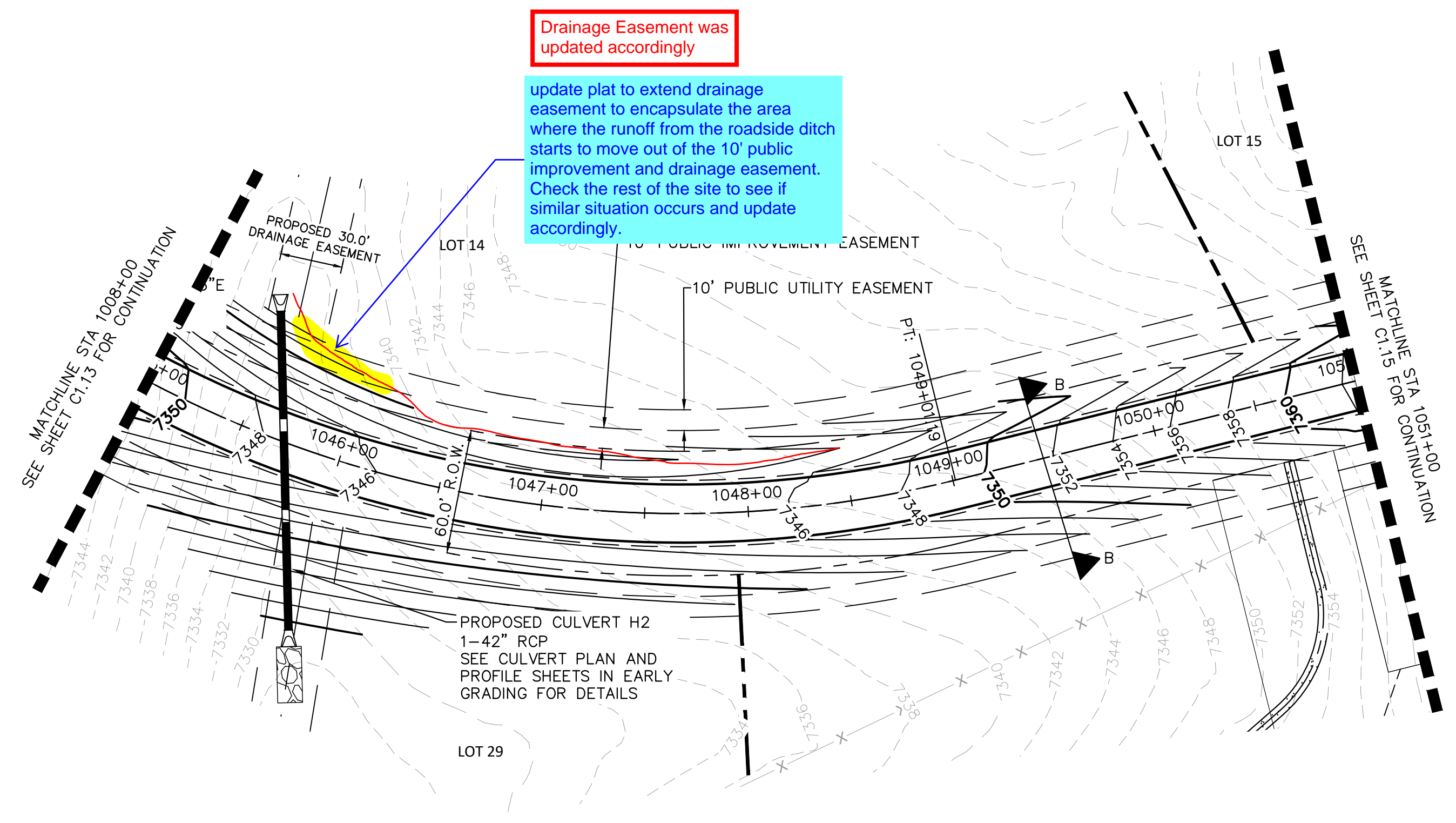
DESIGNED BY: KRK  
 DRAWN BY: JRH  
 CHECKED BY: KRK  
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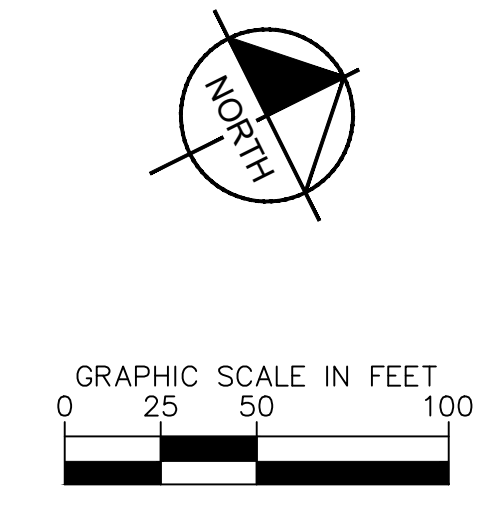
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 SHEET  
**C1.13**

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**LEGEND**

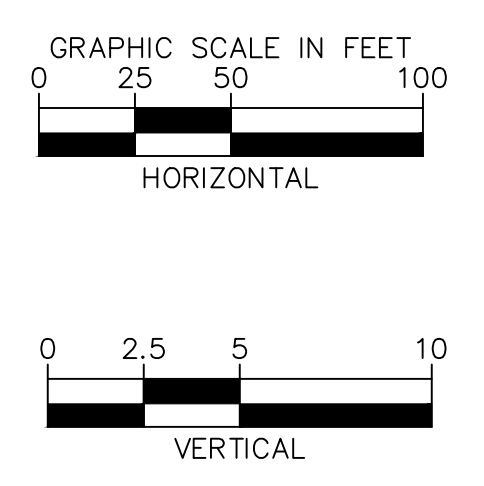
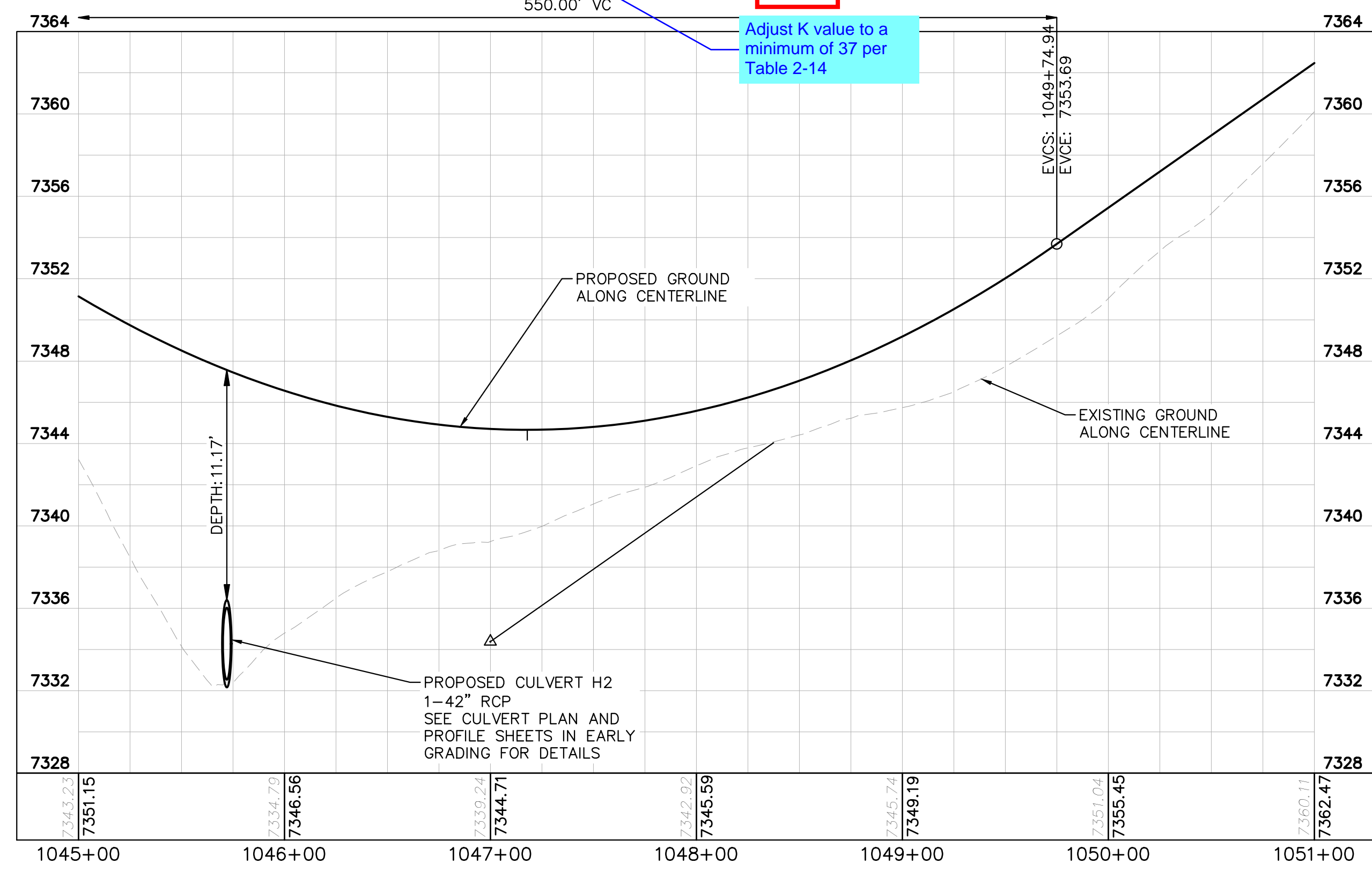
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-----XXXX-----	EXISTING MAJOR CONTOUR
-----XXXX-----	EXISTING MINOR CONTOUR
-----XXXX-----	PROPOSED MAJOR CONTOUR
-----XXXX-----	PROPOSED MINOR CONTOUR
X                      X	STREET CROSS SECTION (SEE SHEET C1.2 FOR DETAILS)
---	PROPOSED STORM LINE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



LOW POINT ELEV: 7344.66  
 LOW POINT STA: 1047+17.86  
 PVI STA: 1046+99.94  
 PVI ELEV: 7334.38  
 AD: 15.02%  
 K: 36.61  
 550.00' VC

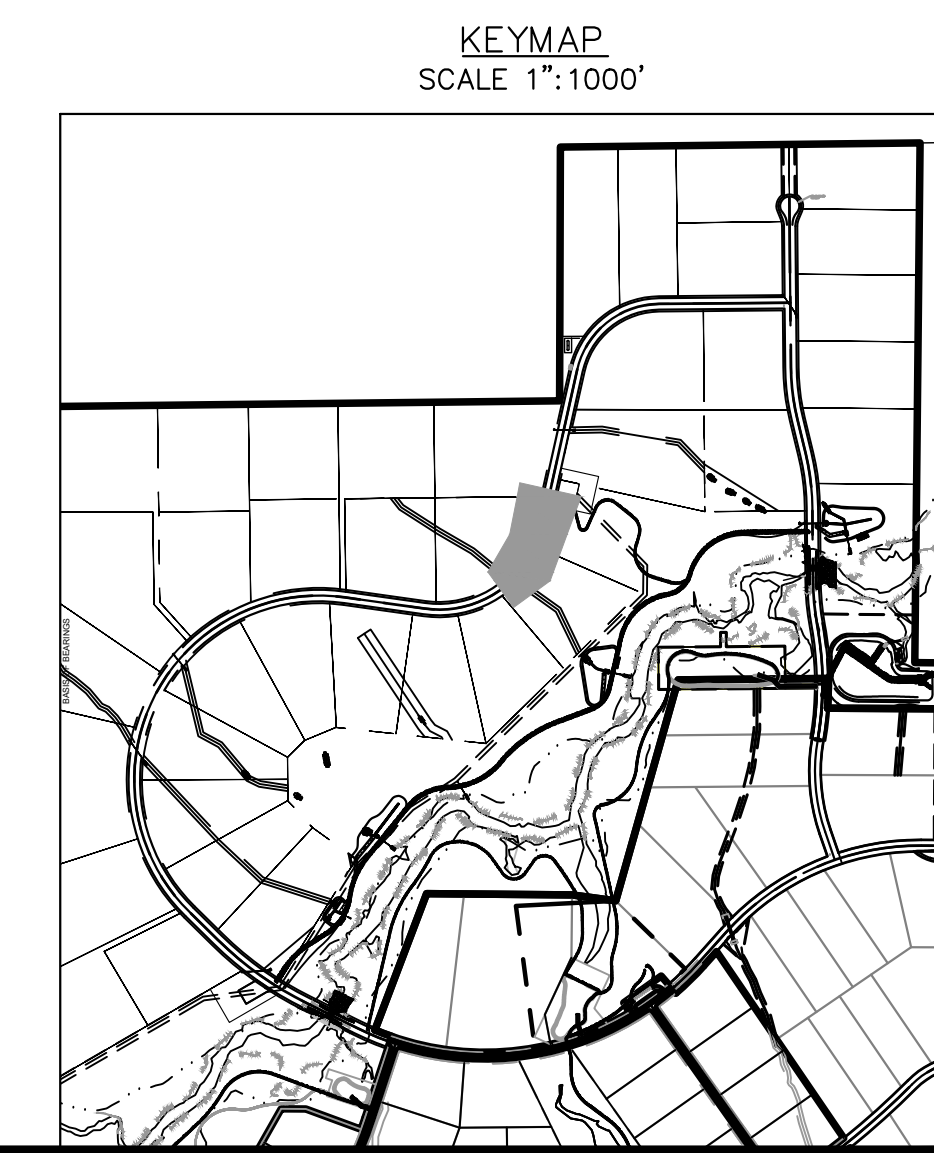
**ALAMAR WAY STA 1045+00 TO 1051+00**

Updated



**NOTES**

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



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

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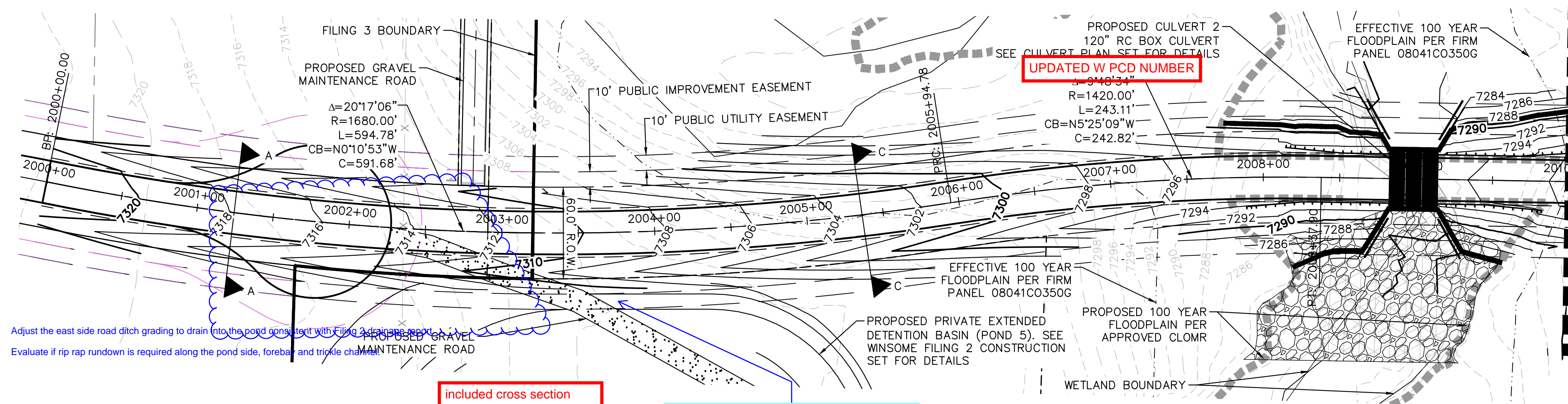
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**C1.14**





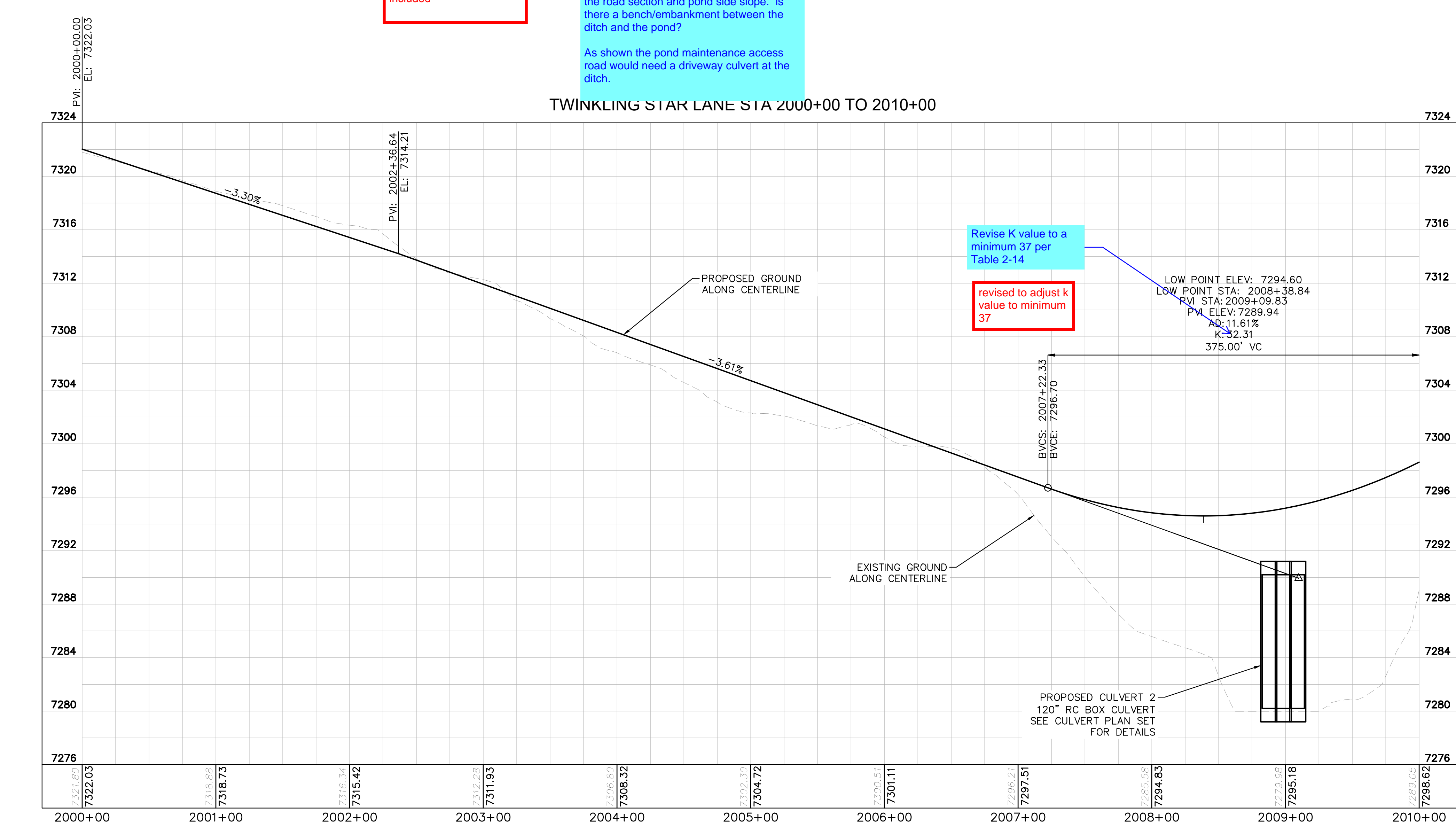


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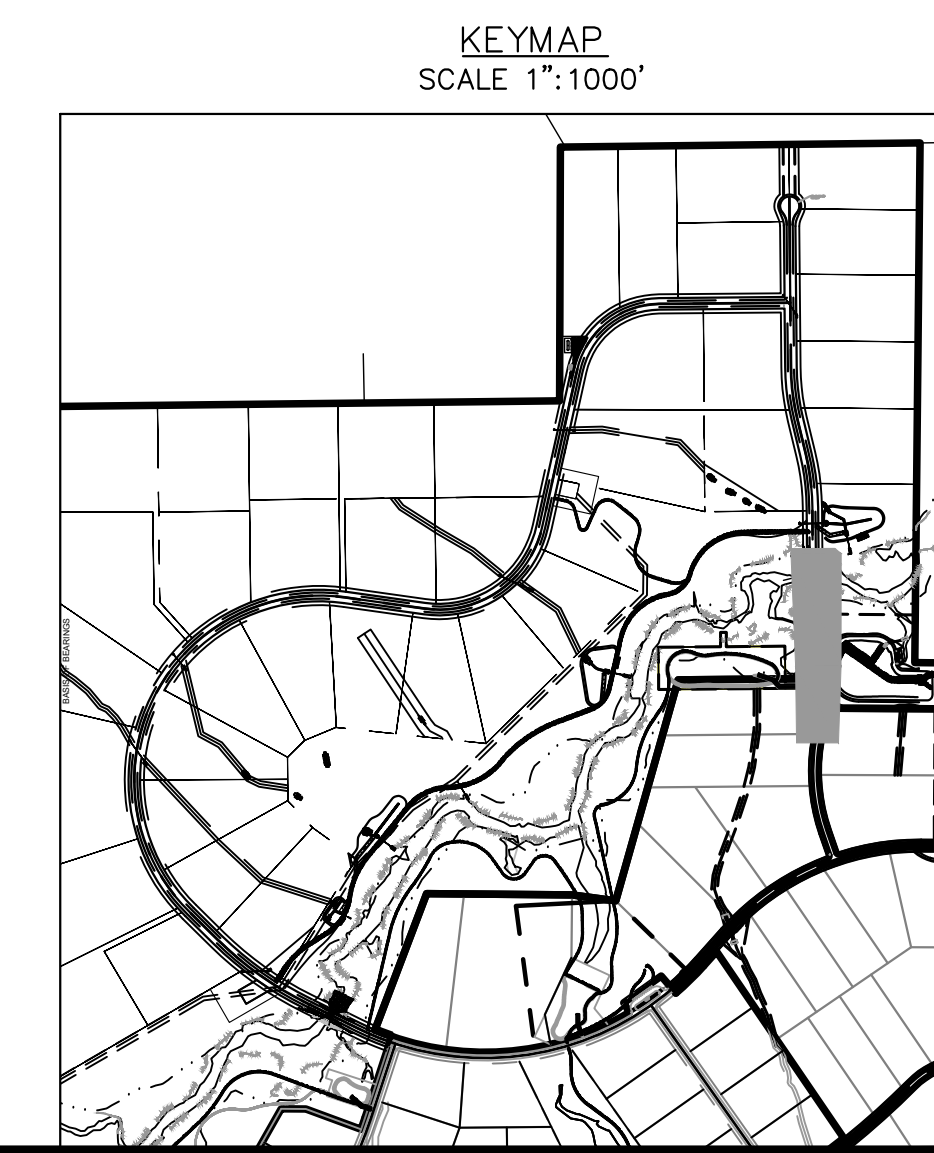
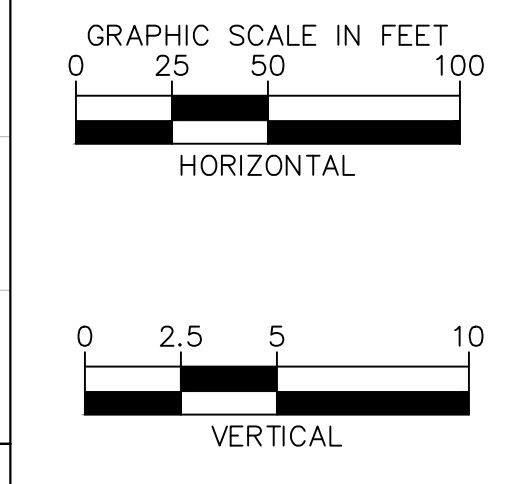
**LEGEND**

---	LOT BOUNDARY LINE
XXXX	EXISTING MAJOR CONTOUR
XXXX	EXISTING MINOR CONTOUR
XXXX	PROPOSED MAJOR CONTOUR
XXXX	PROPOSED MINOR CONTOUR
X X 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.



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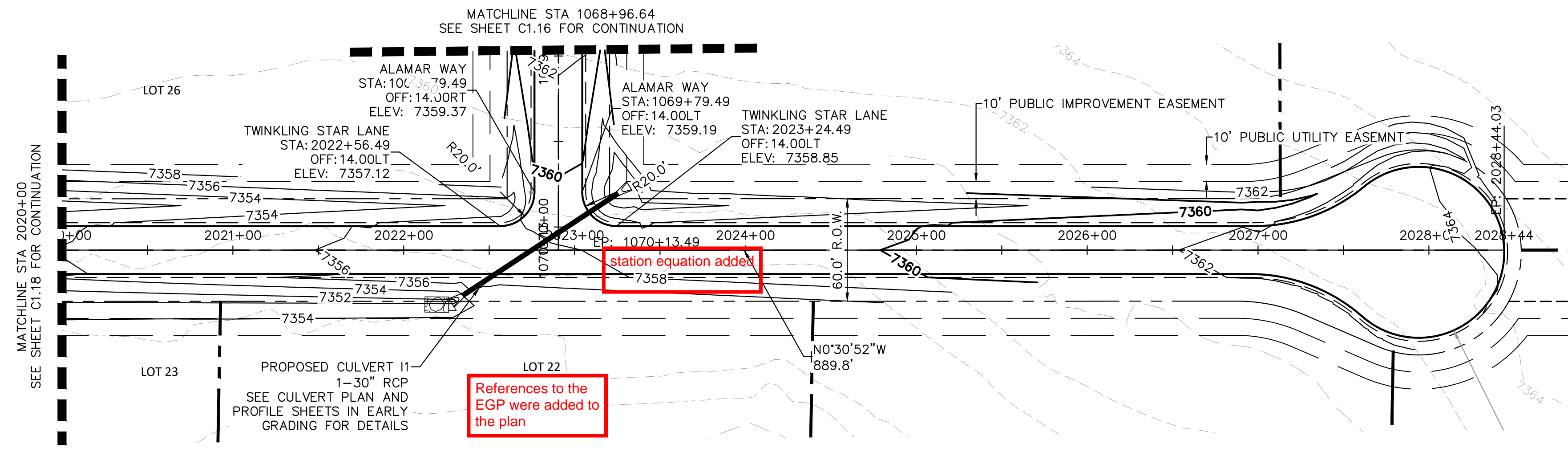
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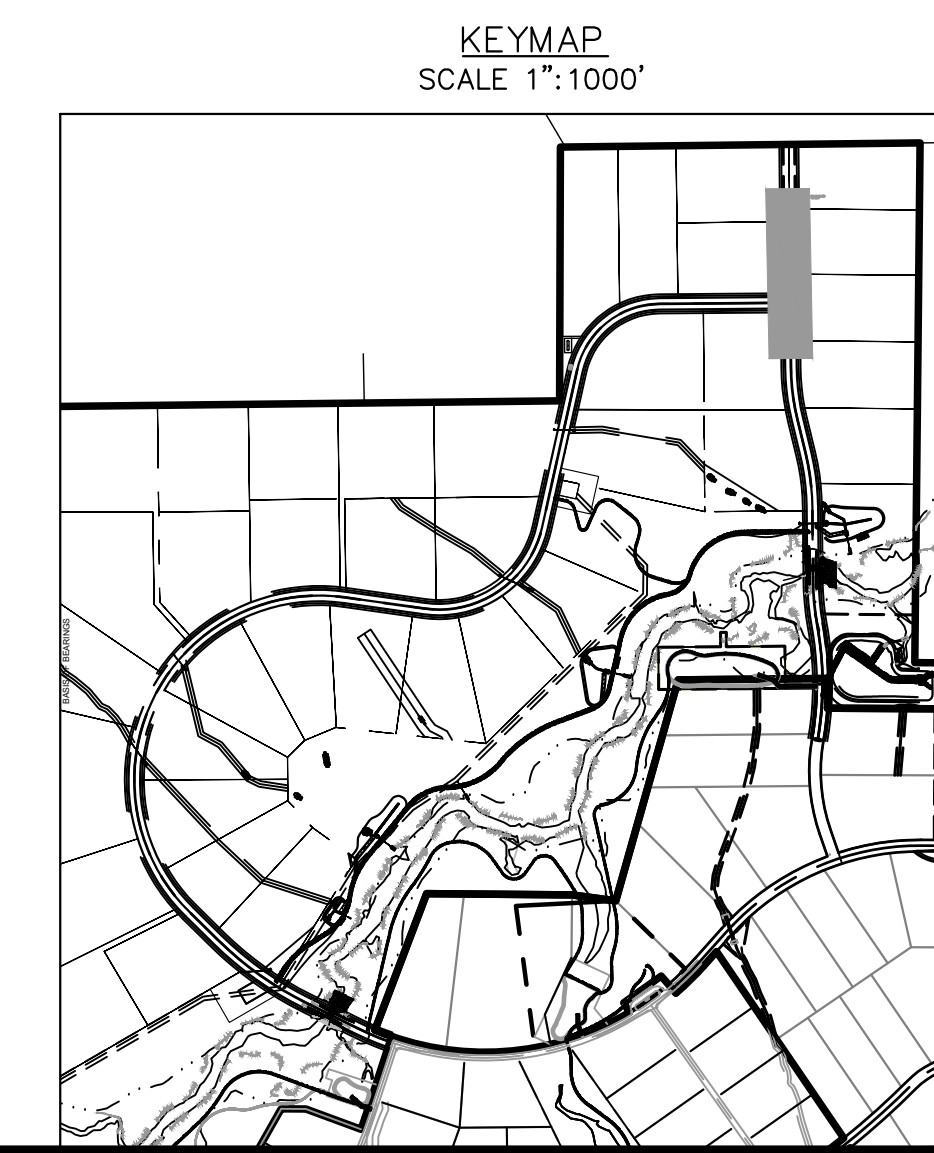
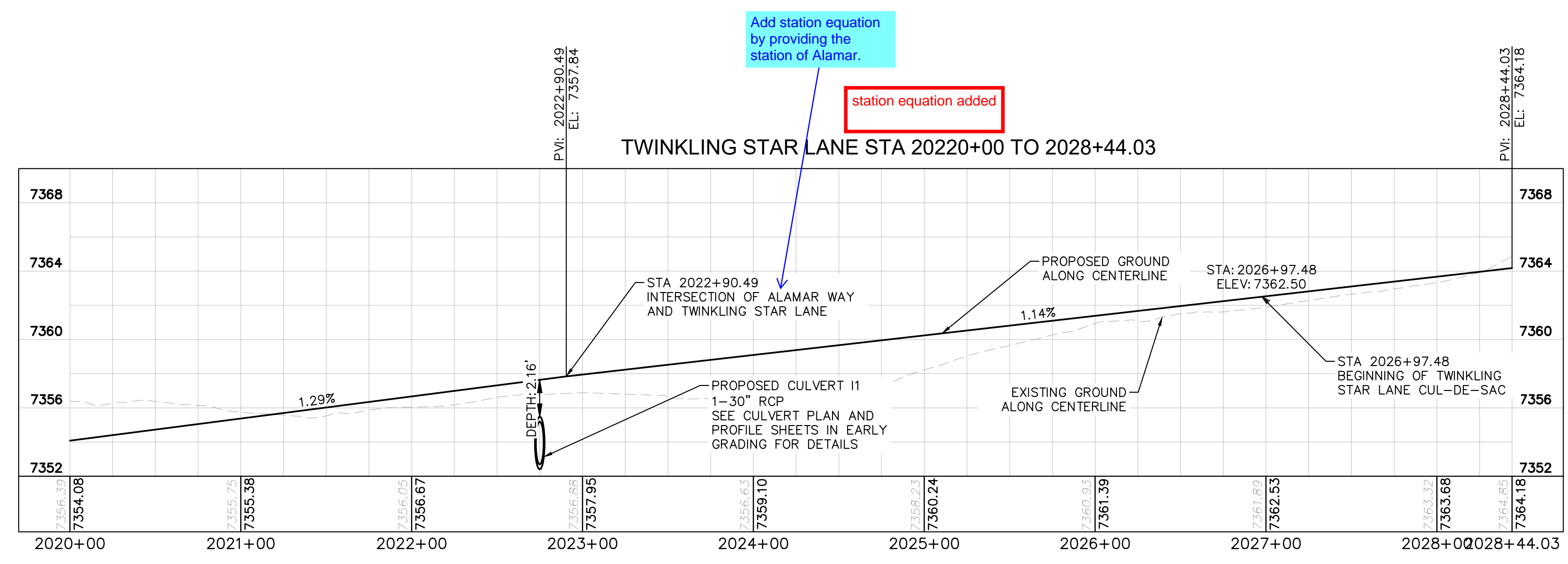


**LEGEND**

---	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**

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



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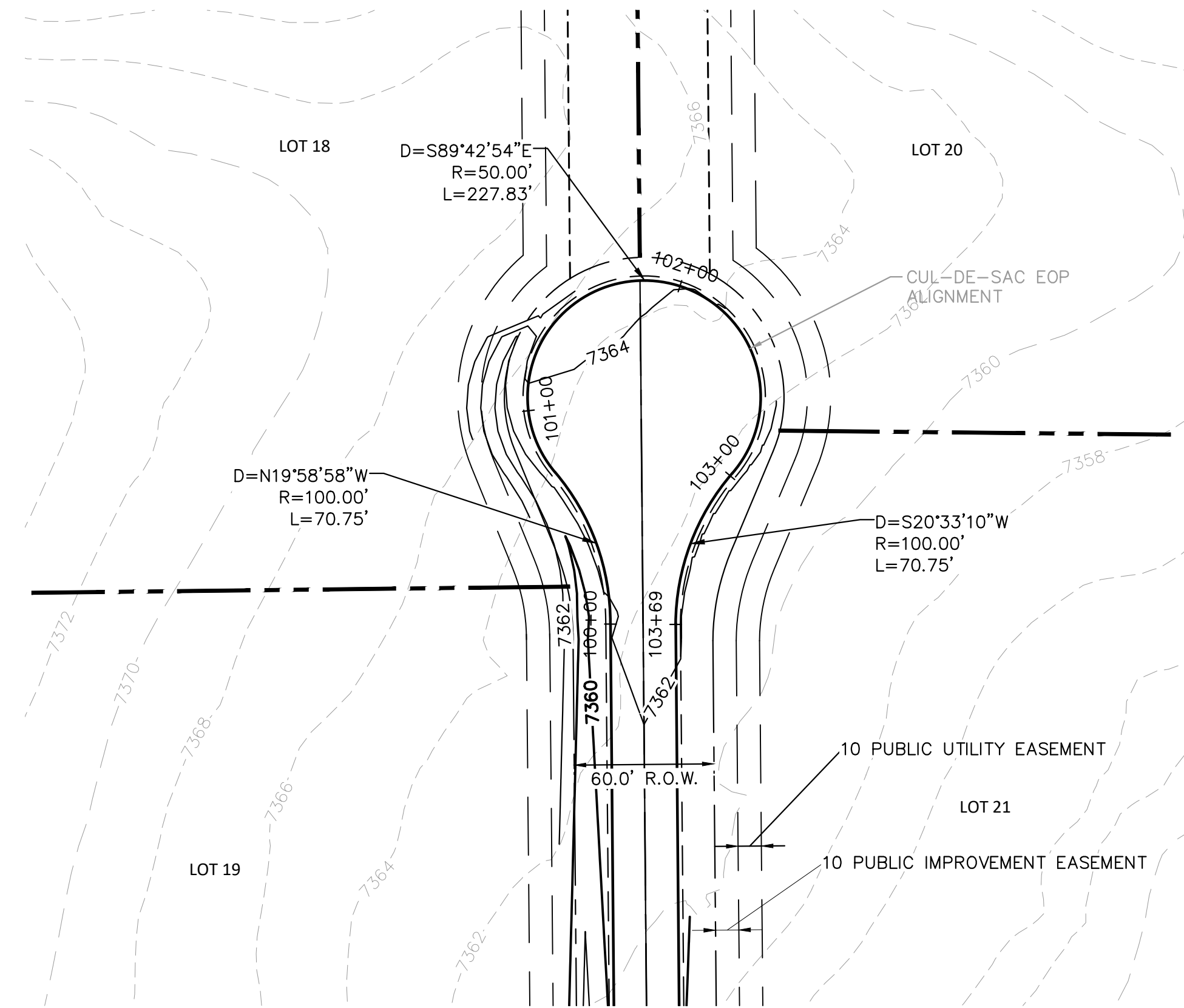
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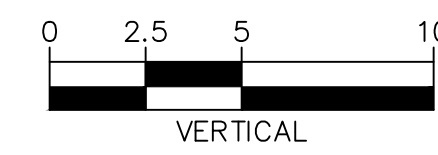
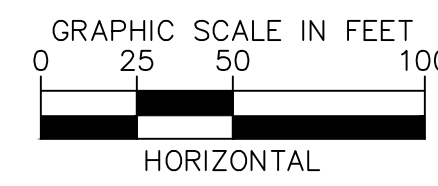
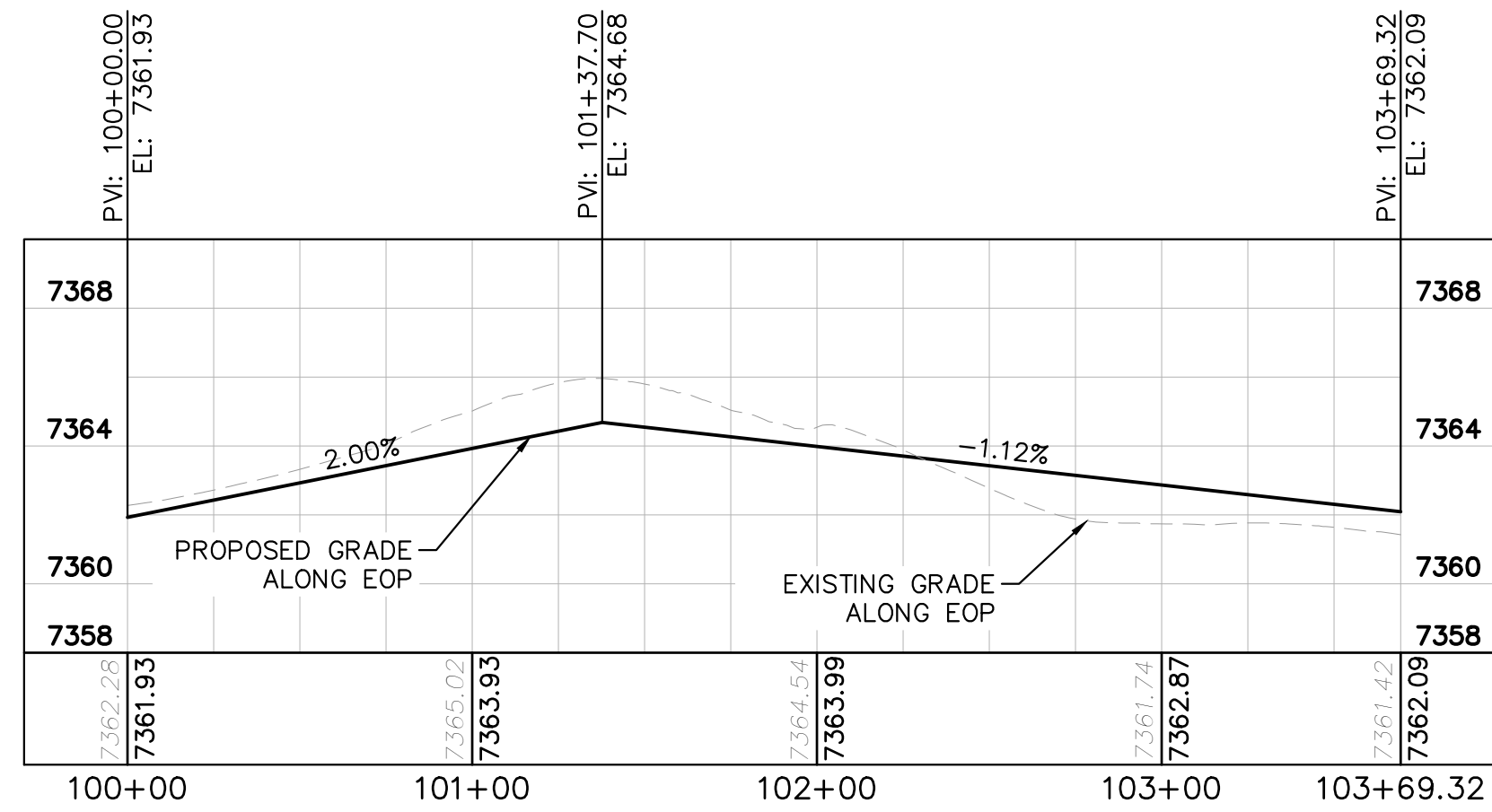
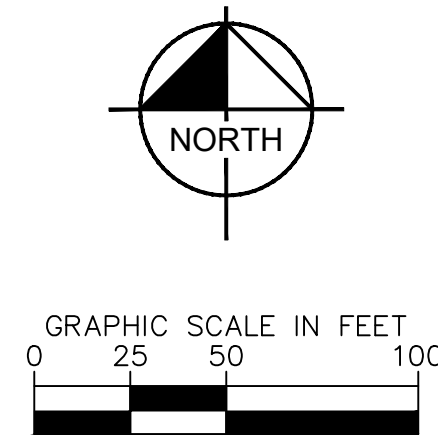
PROJECT NO.  
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**C1.19**

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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

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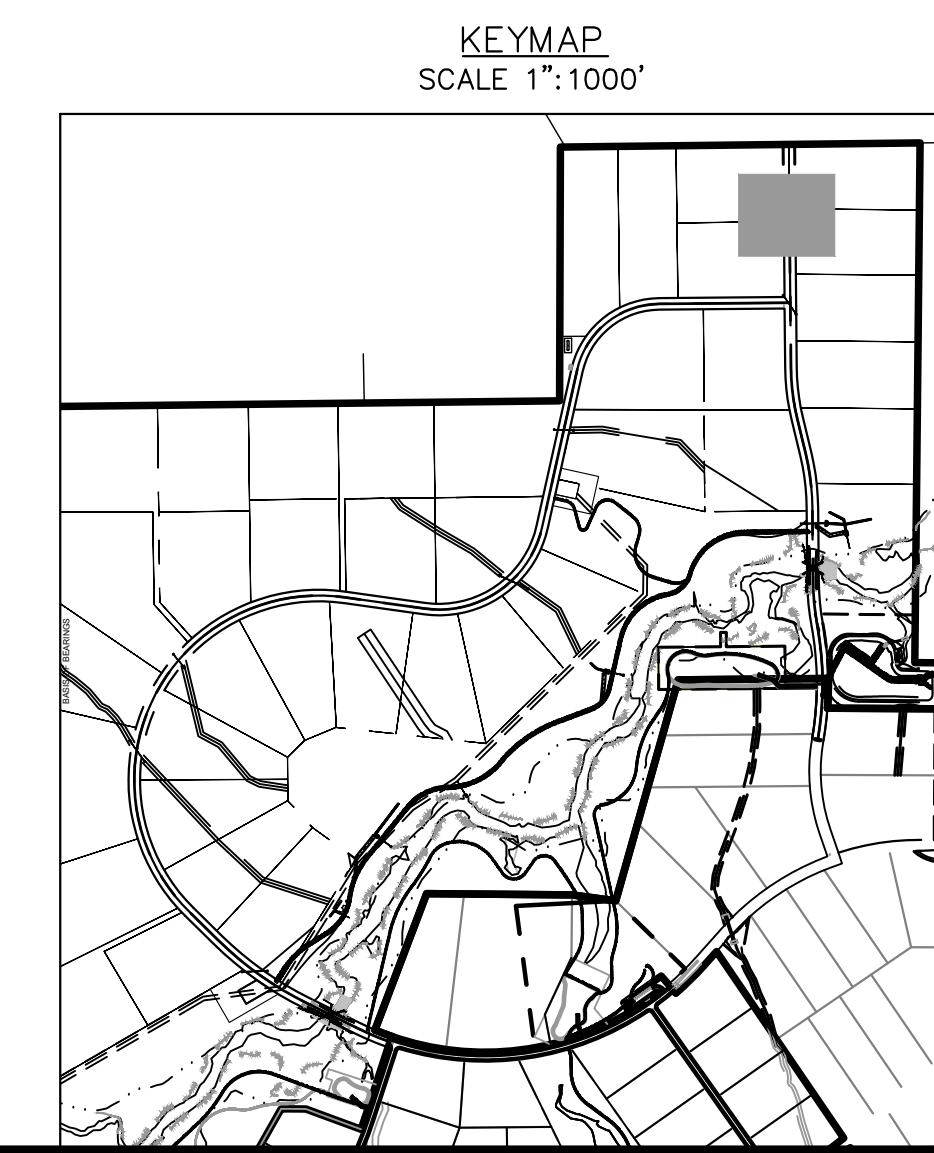
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 CHECKED BY: KRK  
 DATE: 9/3/2021

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

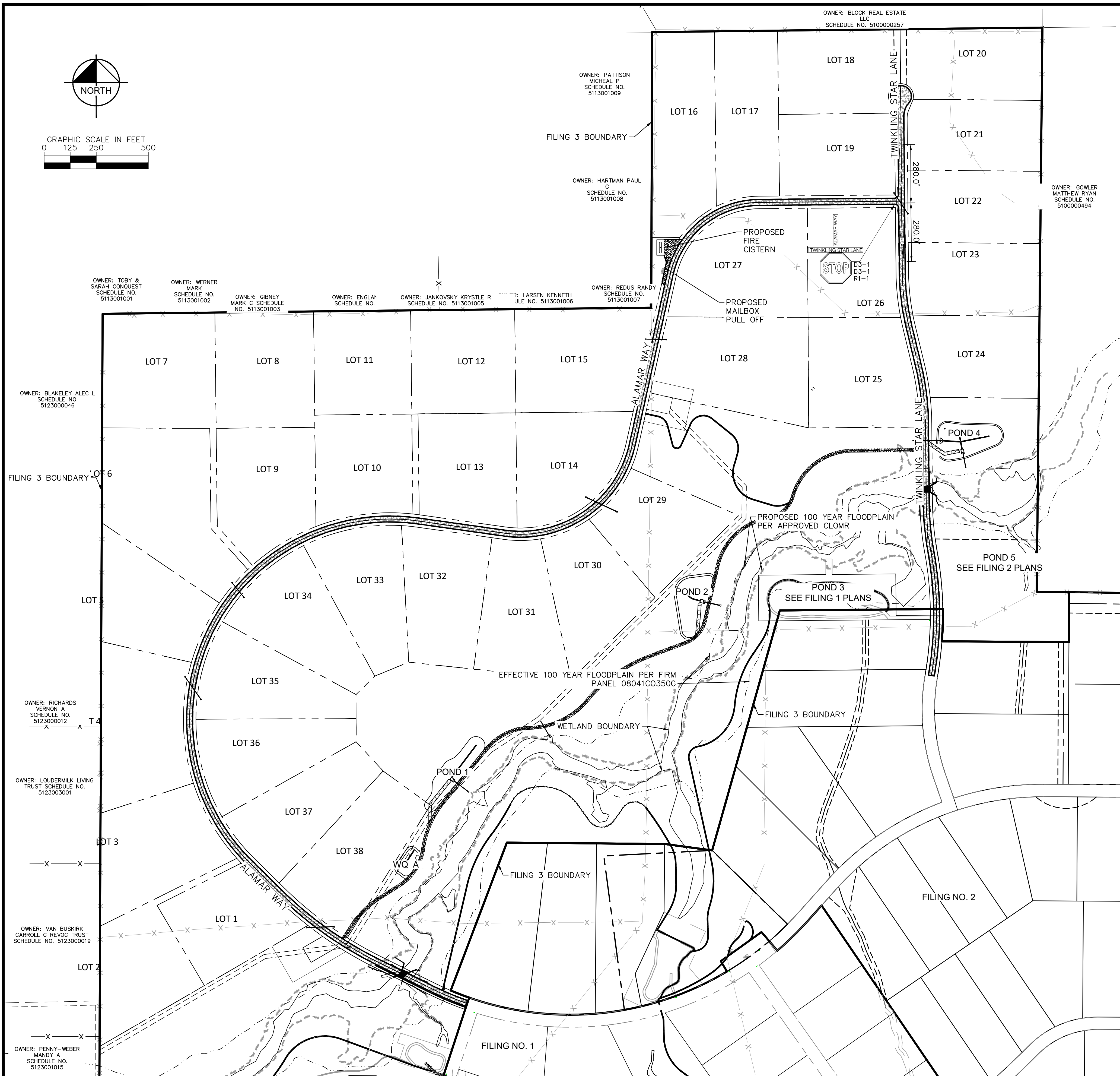
PRELIMINARY  
 FOR REVIEW ONLY  
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 CONSTRUCTION  
**Kimley»Horn**  
 Kimley-Horn and Associates, Inc.

PROJECT NO.  
 196106001  
 SHEET

C1.20



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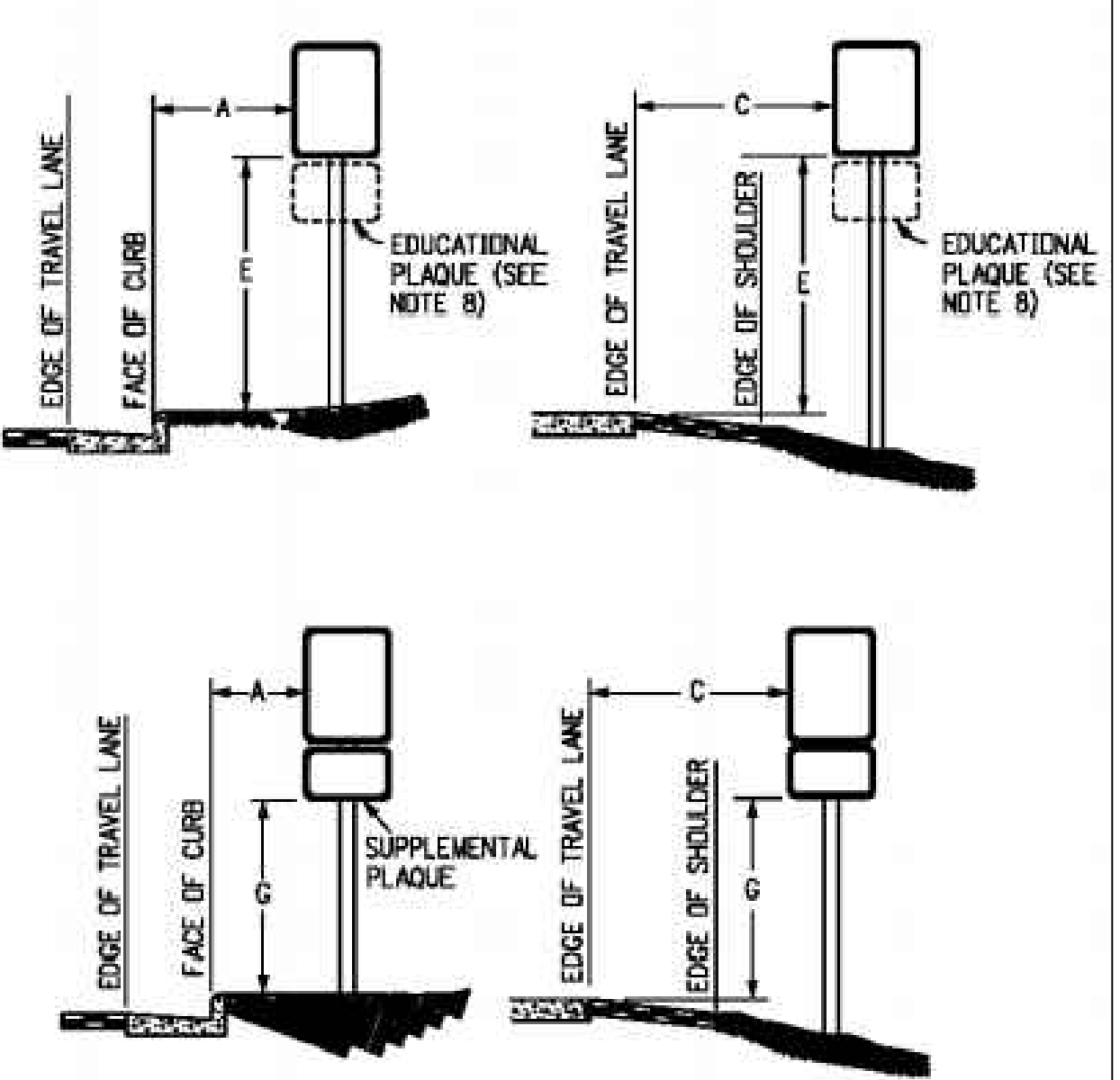


**LEGEND**

- PROPERTY LINE
- - - - - PROPOSED R.O.W.
- ▨ PROPOSED ASPHALT PAVEMENT
- ⬇ PROPOSED CLASS II GROUND MOUNT SIGN

**SIGNING AND STRIPING NOTES**

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.



**REGULATORY, RECREATIONAL AND CULTURAL INFORMATION SIGN PLACEMENT**

**PLACEMENT TABLES**

LATERAL PLACEMENT			VERTICAL PLACEMENT						
KEY	ALL CLASSES OF STREETS AND HIGHWAYS		FREWAYS AND EXPRESSWAYS		CONVENTIONAL STREETS AND HIGHWAYS				
	MINIMUM	NORMAL	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
A	2'-0"	15'-0" PLUS CURB	D	7'-0" OR NOTE NO. 9	12'-0"	7'-0"	8'-0"	5'-0"	8'-0"
B	2'-0"	30'-0" OR MORE INCLUDES CURB	E	7'-0"	8'-0"	7'-0"	8'-0"	5'-0"	8'-0"
C	2'-0"	8'-0" PLUS EDGE OF 6'+ WIDE SHOULDER. IF NONE, 15'-0" FROM EDGE OF TRAVEL LANE	F	8'-0" OR NOTE NO. 9	12'-0"	8'-0"	9'-0"	5'-0"	9'-0"
			G	8'-0"	7'-0"	8'-0"	7'-0"	4'-0"	7'-0"
			H	5'-0"	10'-0"	8'-0"	7'-0"	4'-0"	7'-0"

NO.	REVISION	BY	DATE	APPR.

**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  
**SIGNING AND STRIPING PLAN**

PRELIMINARY  
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 Kimley-Horn and Associates, Inc.

PROJECT NO.  
 196106001

SHEET

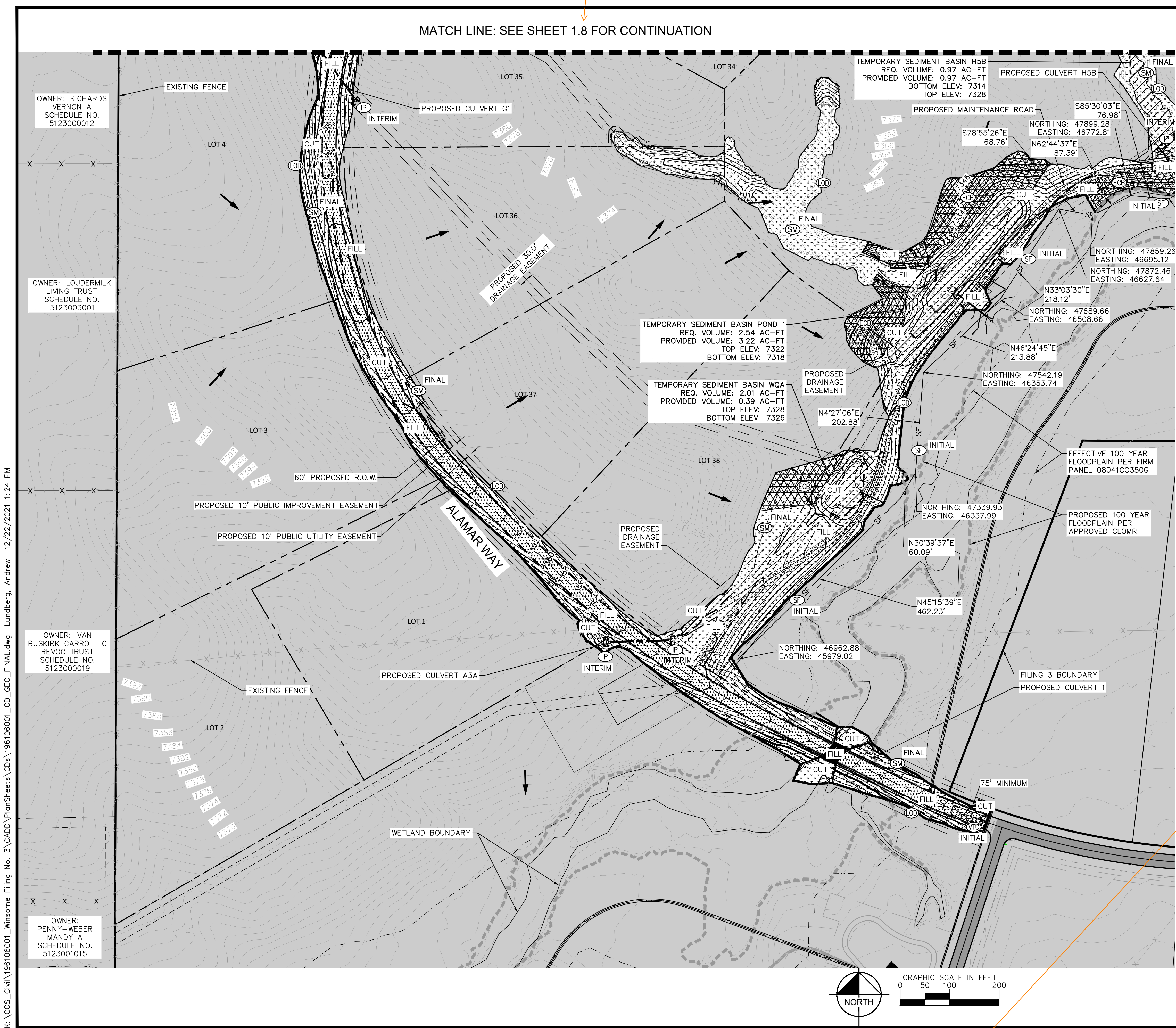
**C1.21**



Revise sheet #'s on matchlines on this sheet and all subsequent sheets. This one should be 1.24, for example.

updated fields to reference the correct sheet

MATCH LINE: SEE SHEET 1.8 FOR CONTINUATION



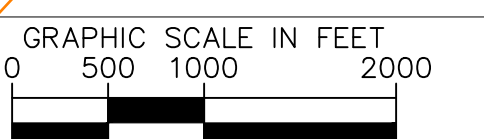
LEGEND

- LOT BOUNDARY LINE
- 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
- VTC --- VEHICLE TRACKING CONTROL
- GR --- GRAVEL MAINTENANCE ROAD
- TSB --- TEMPORARY SEDIMENT BASIN
- ECB --- EROSION CONTROL BLANKET
- SM --- PERMANENT SEEDING/MULCHING
- A/R --- ASPHALT ROADWAY
- C/W --- CONCRETE WASHOUT
- F/D --- 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.
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7. ALL WORK IN THE HODGEN ROAD AND MERDIAN 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.
9. DEMOLITION AND SOIL TREATMENT SHALL BE IN ACCORDANCE WITH THE TECHNICAL ENGINEER RECOMMENDATIONS AND APPROVED PROJECT GEOTECHNICAL TABLES AND INFORMATION ARE PROVIDED ON THESE SHEETS.
10. VEGETATION SHALL BE CONSISTING OF NATIVE GRASSES, TREES AND PLANTS THAT SHALL BE INSPECTED.
11. NO ASPHALT OR CONCRETE BATCH PLANTS SHALL BE USED FOR THIS PROJECT.
12. CHECK DAMS TO BE PLACED IN TEMPORARY AND PERMANENT DRAINAGE SWALES AND ROADSIDE DITCHES AND TO BE SPACED AS DEEMED NECESSARY. RIPRAP IN CHECK DAMS TO BE SUBSTITUTED WITH SCL.

This should instead say "per detail and table." And it would be better if each check dam was shown on the plans to better estimate quantity to input on FAE Form and for install and inspection purposes.



**Kimley»Horn**  
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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: 12/10/2021

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

Verify that velocities and flows are such that this substitution is acceptable.

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 Kimley-Horn and Associates, Inc.

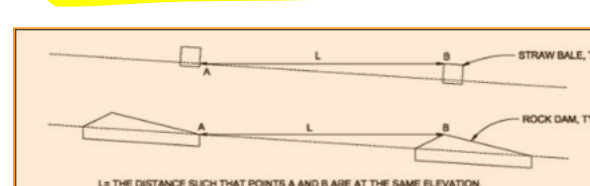
PROJECT NO.  
 196106001

SHEET  
 C1.23

Check dams to be installed a minimum of every 1.5' of vertical fall. Notate spacing and/or include a table for multiple slopes, based on your selected detail, per the example table shown here:

Slope of Drain	2%	3%	4%	5%	6%	Reference	Type
Spacing (ft)	25	30	37.5	50	62.5	DOT, (of Stone Walls, Detail 1)	Rock
Spacing (ft)	25	30	37.5	50	62.5	DOT, (of Stone Walls, Detail 2)	Rock
Spacing (ft)	100	125	150	187.5	225	DOT, (of Stone Walls, Detail 3)	Rock
Spacing (ft)	100	125	150	187.5	225	DOT, (of Stone Walls, Detail 4)	Rock

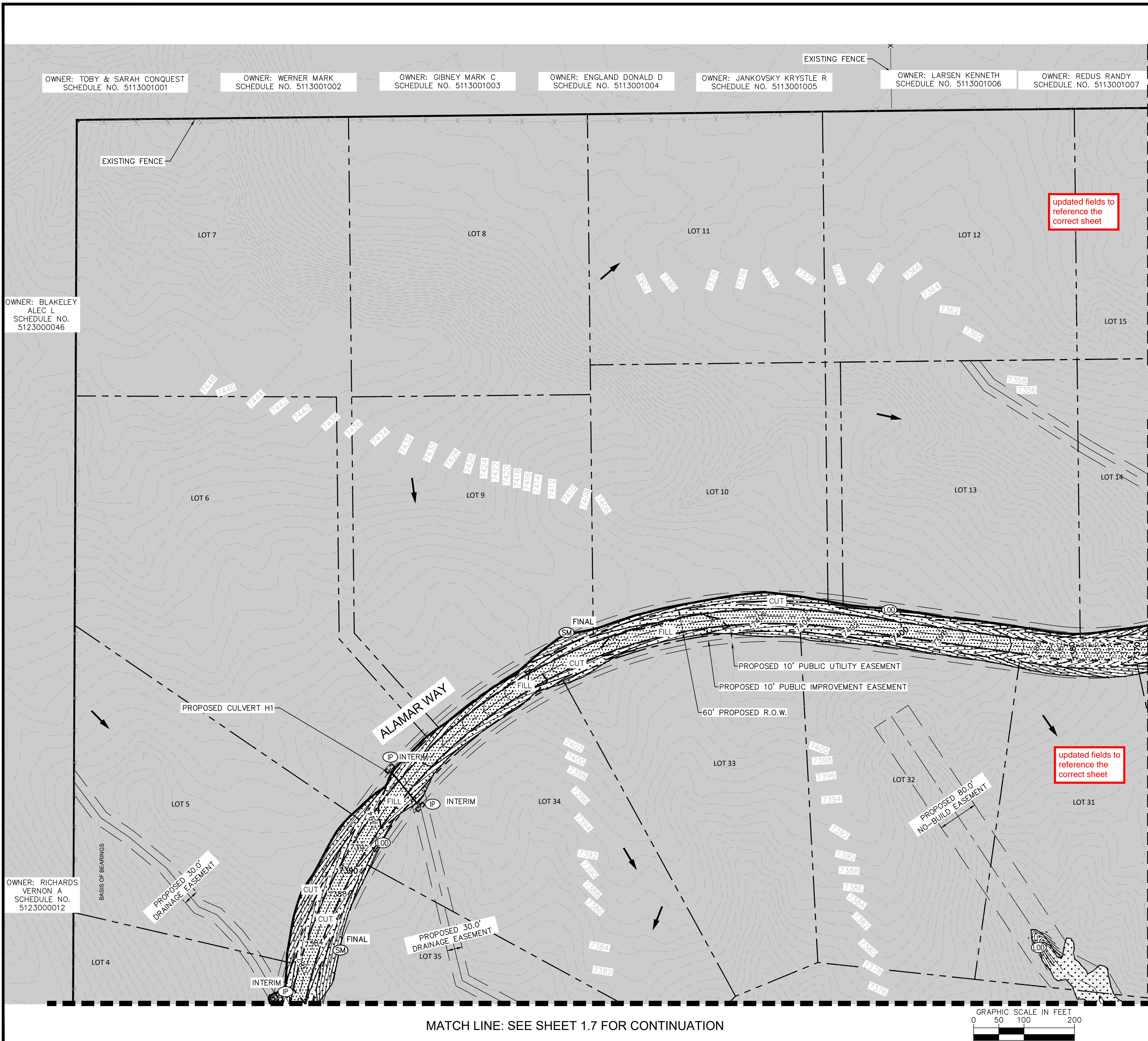
Typical profile view of check dam spacing (for all except DCM2 rock check req's):



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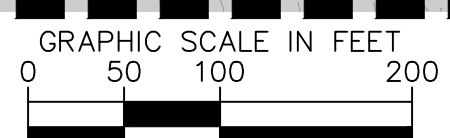
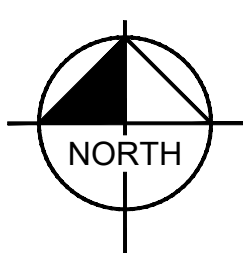
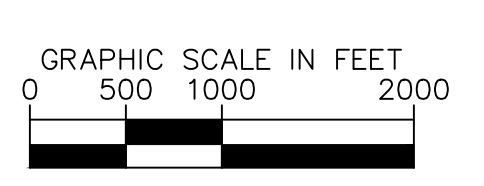
MATCH LINE: SEE SHEET 1.10 FOR CONTINUATION

LEGEND

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

NOTES

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

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

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PROJECT NO. 196106001  
SHEET C1.24

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

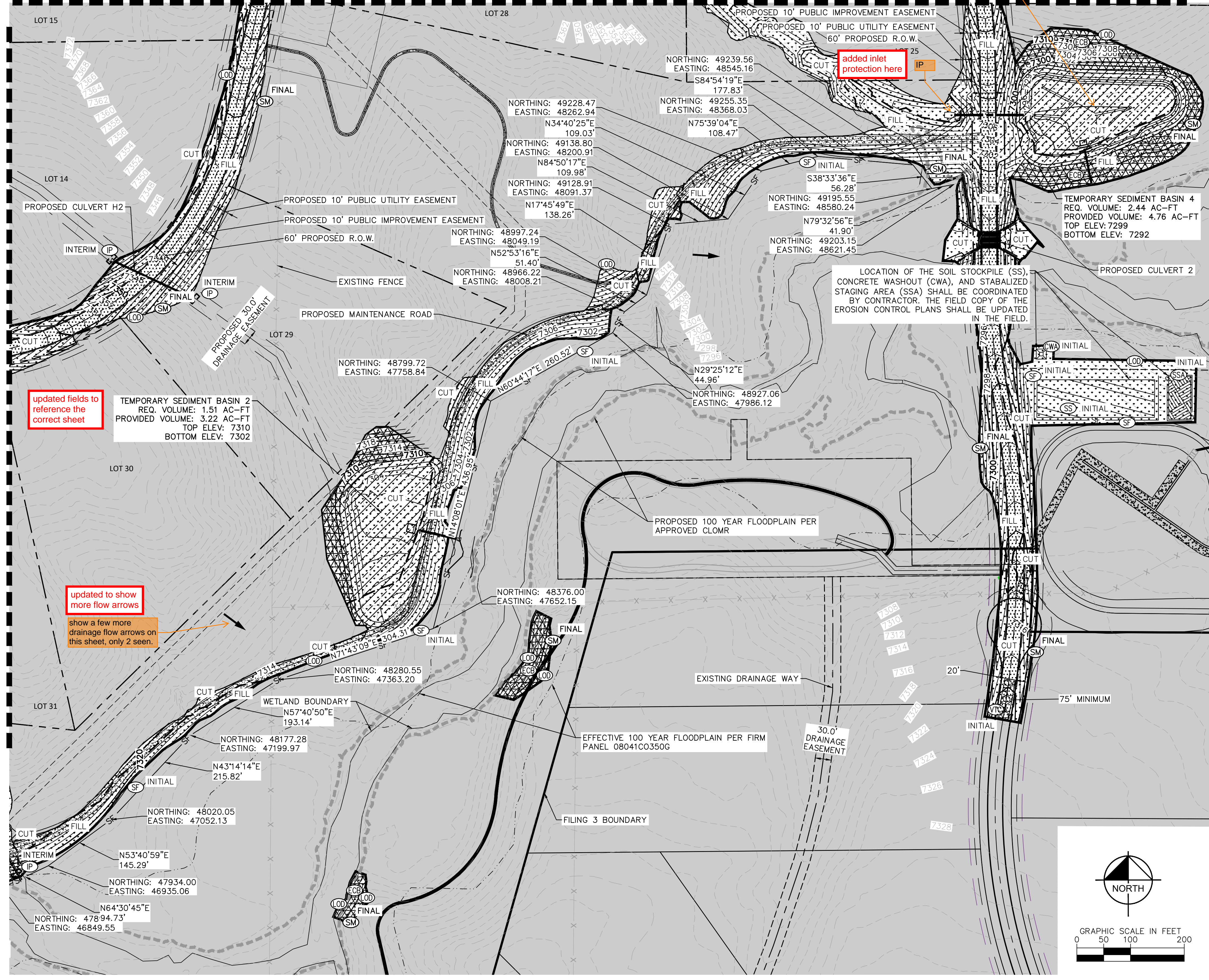
NO.	REVISION	BY	DATE	APPR.



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MATCH LINE: SEE SHEET 1.7 FOR CONTINUATION

MATCH LINE: SEE SHEET 1.9 FOR CONTINUATION



updated fields to reference the correct sheet

updated to show more flow arrows  
show a few more drainage flow arrows on this sheet, only 2 seen.

updated fields to reference the correct sheet

The linework for the trickle channel got messed up somehow. Fix as needed.

previously extracted contours are no longer shown. Trickle channel is showing correctly.

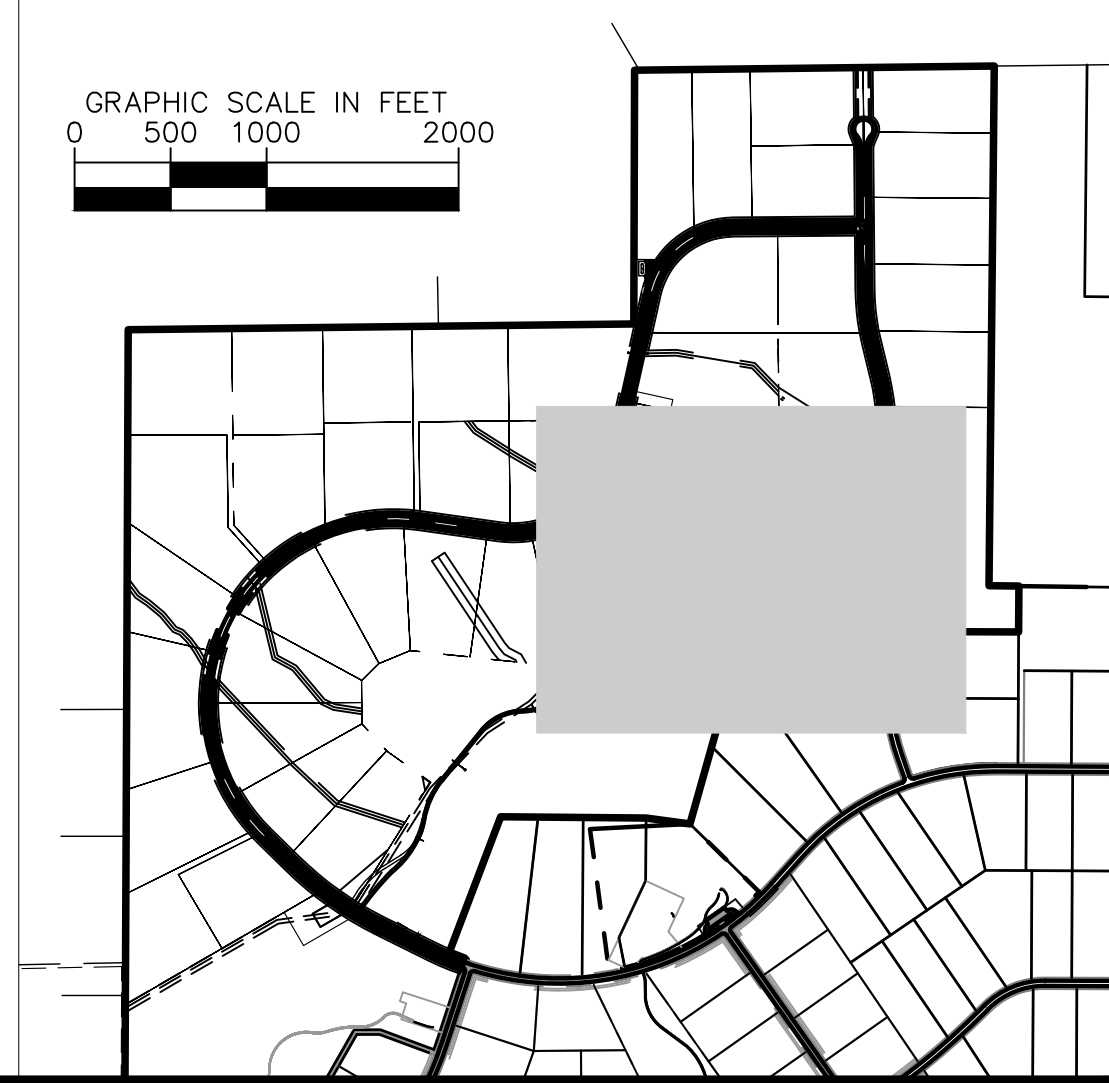
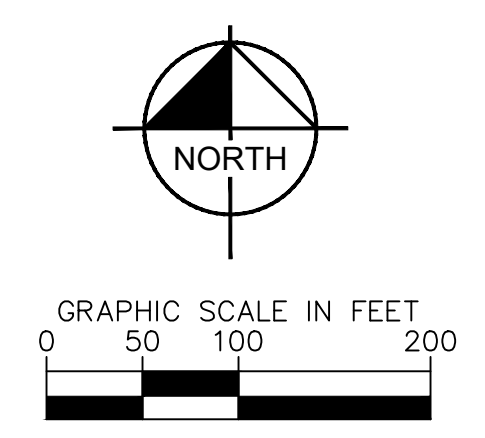
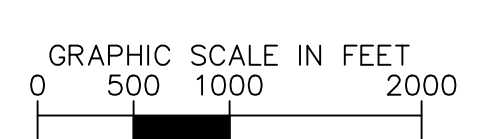
LOCATION OF THE SOIL STOCKPILE (SS), CONCRETE WASHOUT (CWA), AND STABILIZED STAGING AREA (SSA) SHALL BE COORDINATED BY CONTRACTOR. THE FIELD COPY OF THE EROSION CONTROL PLANS SHALL BE UPDATED IN THE FIELD.

LEGEND

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NO.	REVISION	BY	DATE	APPR.

**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: 12/10/2021

WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
PRE DEVELOPMENT GESC PLAN  
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PROJECT NO.  
196106001

SHEET  
C1.26



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TO: FIRM Falcon Fire Protection District PROJECT Falcon FD Minimum Draft QUOTE # AD7205-R2 DATE 09.18.08  
 PHONE FAX EMAIL SITE LOCATION Falcon Fire District COUNTY El Paso  
 STANDARD D-5 NOM. CAPACITY 30,000 NOM. WEIGHT 8,000 POTABLE NON-POTABLE X USE Fire Cistern

**INCLUDED WITH THIS FIBERGLASS UNDERGROUND TANK QUOTATION**

1 - 30"x36" manway-hinged or bolted cover 19 - NFPA anti-vortex plate on draw pipe  
 6 - 4" lockable inspection hatch on manway 25 - Water level gauge (reads in inches)  
 13 - 6" PVC vent head-screens  
 15 - High water level control assembly  
 17 - Siamese refill w/2"-2.5" NST-FS connections  
 18 - 6" NST-F dry hydrant head

**PREPAID PRICE**

TAX ADD 2.9% 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.

BURY DETAILS 36" typical-rated for 60" bury depth WATER SOURCE  
 APPROVALS Local Fire District

ANTIBUOYANCY  
 COMMENTS: Minimum draft design.

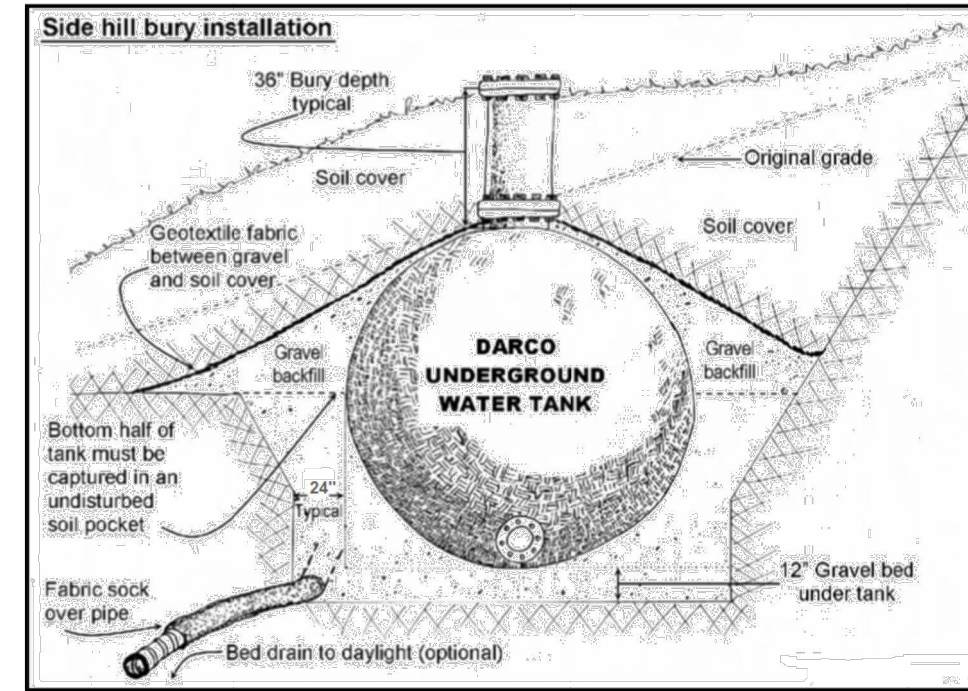
NOTES:  
 ANCHOR STRAPS (IF USED)  
 LIFTING LUGS (IF USED)  
 BEADMAN ANCHORS: 4 EACH SIDE (IF USED)  
 IMPORTANT: REVIEW DARCO STRUCTURAL SPECIFICATIONS AND LIMITED WARRANTY BEFORE APPROVAL. GRAVEL BED AND 100% GRAVEL ENCAPSULATION REQUIRED / MAXIMUM BURY DEPTH FOR STANDARD FIBERGLASS VESSELS IS 5 FEET / SEE DARCO WEB SITE FOR INSTALLATION DETAILS AND APPROVED MATERIALS / FIRE SERVICE DESIGNS MUST HAVE PRIOR FIRE DEPARTMENT APPROVAL / DARCO FACTORY QUOTES ARE HONORED FOR 30 DAYS ONLY

DARCO FIBERGLASS TANK - 10D - 30K (30,000 Gal.)  
 Rev. No. 0  
 Rev. Date 12/12/06  
 980 Darco Drive, Bennett, Colorado 80102  
 800-232-9660 (phone) 303-644-5001 (fax)  
 www.darcoinc.com

Chief Trent Horwig / 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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TANK SIZE (DIA)	MINIMUM SLAB THICKNESS (INCHES)	MINIMUM SLAB ANCHOR PROJECTION (INCHES)	MINIMUM SLAB ANCHOR END PROJECTION (INCHES)	SLAB ANCHOR STRIP LENGTH (INCHES)	SLAB ANCHOR STRIP SPACING (INCHES)	SLAB ANCHOR STRIP LENGTH (FEET)
8"	24"	4"	24"	24"	225"	14'
10"	24"	4"	24"	24"	225"	14'
12"	24"	6"	36"	36"	271"	16'
14"	24"	6"	48"	48"	315"	16'

IMPORTANT - NOT ALL TANKS REQUIRE ANCHORING. (EXTREME CONDITIONS)  
 NOT TO SCALE, FOR ILLUSTRATION ONLY

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Item Z. Include details for the following BMP's, which are shown on the GEC Plans above. Examples of acceptable details for each are provided:

Sheets with the GEC details indicated below were added to the plan

Sheets with the GEC details indicated below were added to the plan

Make sure whichever detail you chose is modified (if necessary) to show a min length of 75ft.

BMP	Detail # and Source				
	ECM (Appendix F)	DCM (Vol 2: Chap 3.3)	MHFD (USDCM Vol 3: Chap 7)	COS - Stormwater Construction Manual (App E)	CDOT Standard Plans on M-208-1
Concrete Washout	SD_3-84		MM-1	X	X
Inlet Protection	SD_3-60 (sandbags at drop inlet and gutter upstream of inlet) SD_3-86 (for steep slope above inlet)	IP-1 (SF at drop inlet), IP-2 (straw bale at drop inlet) IP-3 (rock socks or blocks around inlet), IP-4 (rock socks in upstream gutter)	SC-6 (RS & blocks around curb and drop inlets, rock socks at culverts, SF & straw at drop inlets)	X	X
Mulching		MU-1	EC-4	X	
Rolled Erosion Control Products		ECB-1, ECB-2	EC-6	X	
Seeding		TS-1	EC-2	X	
Sediment Basin		SB-1, SB-2	SC-7	X	
Silt Fence		SF-2, SF-3	SC-1	X	X
Stabilized Staging Area			SM-6		
Stockpile Protection & Mgmt			MM-2	X	
Vehicle Tracking Control		VT-1, VT-2	SM-4	X	X

**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: 12/10/2021

WINSOME FILING NO. 3  
 EL PASO COUNTY, COLORADO  
 PRE DEVELOPMENT GESC PLAN  
 FIRE CISTERN DETAILS

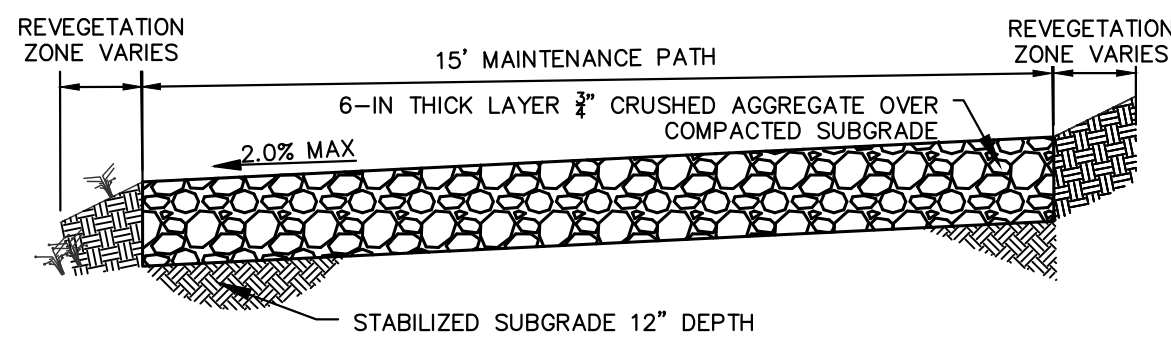
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PROJECT NO. 196106001  
 SHEET  
**C1.28**

NO. REVISION BY DATE APPR.



K:\COS\_Civil\196106001\_ Winsome Filing No. 3\CADD\PlanSheets\CDS\196106001\_CD\_POND.dwg Lundberg, Andrew 12/22/2021 1:26 PM



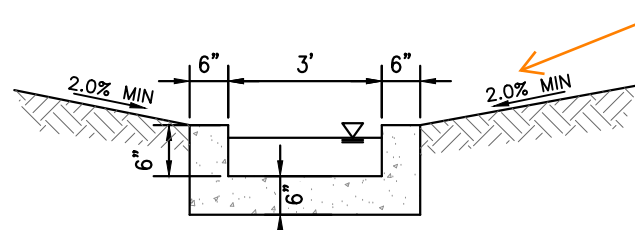
All comments on this details sheet are typical for the detail sheets for all ponds.

**1 MAINTENANCE ROAD**

N.T.S.  
MAINTENANCE PATH NOTES  
1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.

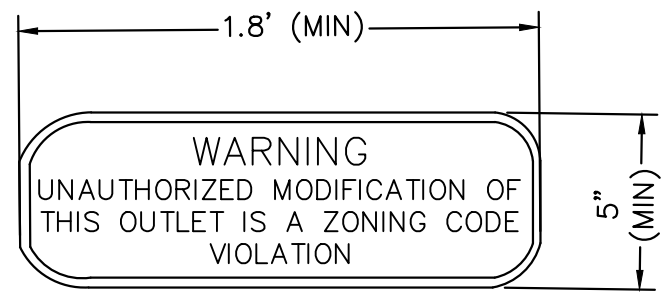
updated to 3% min slope

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.



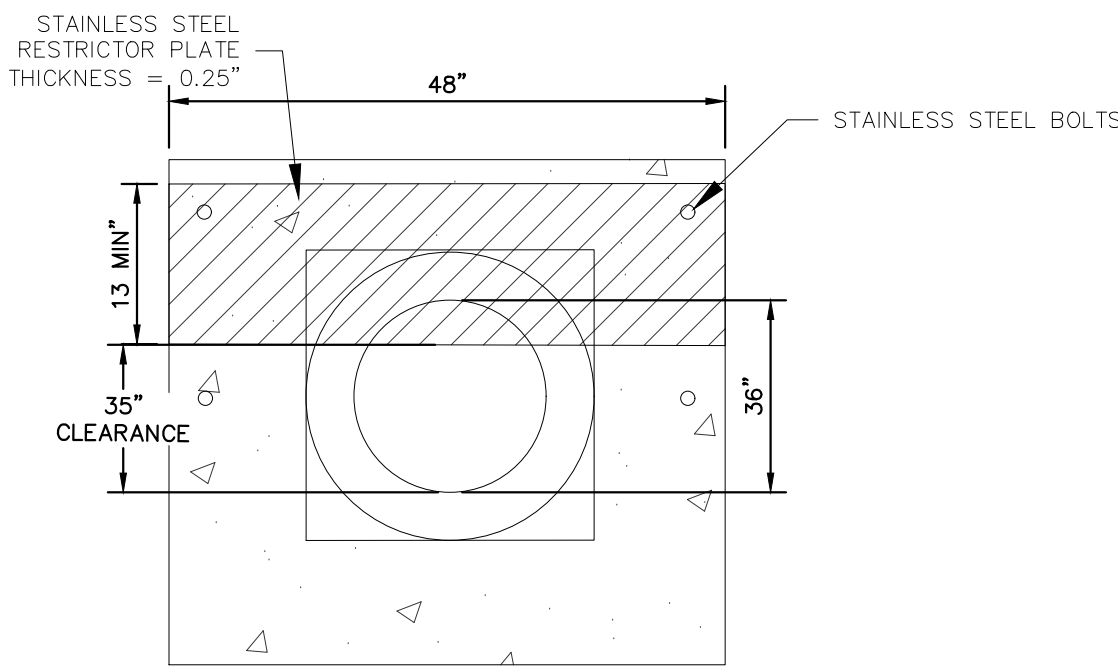
**2 CONCRETE TRICKLE CHANNEL**

N.T.S.



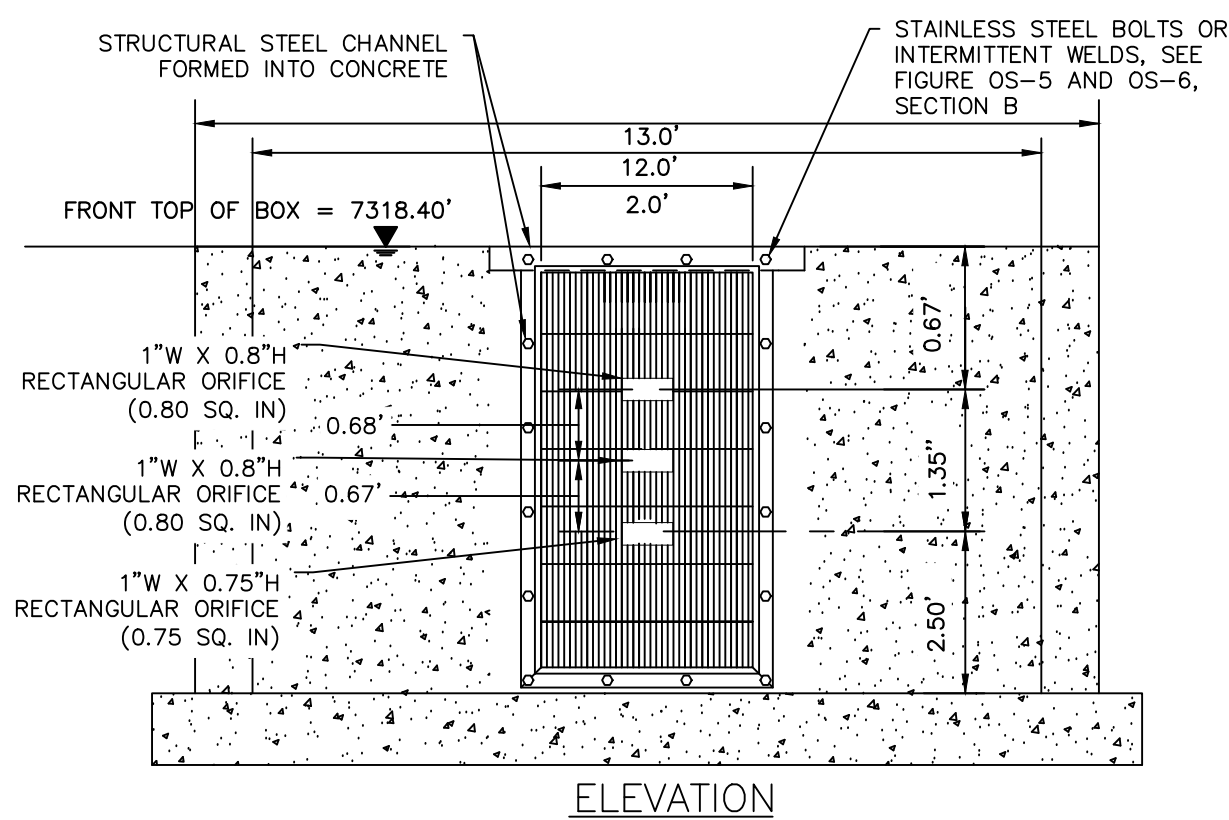
**3 OUTLET SIGNAGE**

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

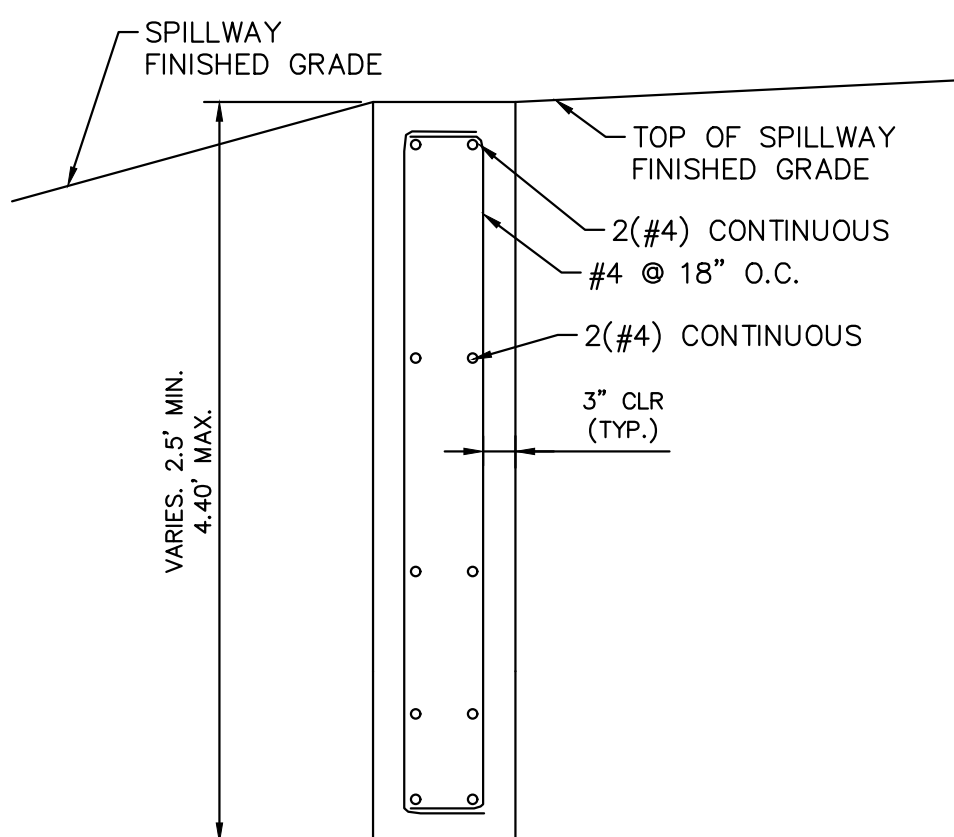
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

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.
3. SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
4. STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

removed notes 3&4 for trash racks and safety gates

Delete notes 3 & 4. This note is intended for the design engineer preparing the plans. The plans should already reflect the appropriate trash rack or safety gate size.



**6 SECTION CREST WALL DETAIL**

N.T.S.

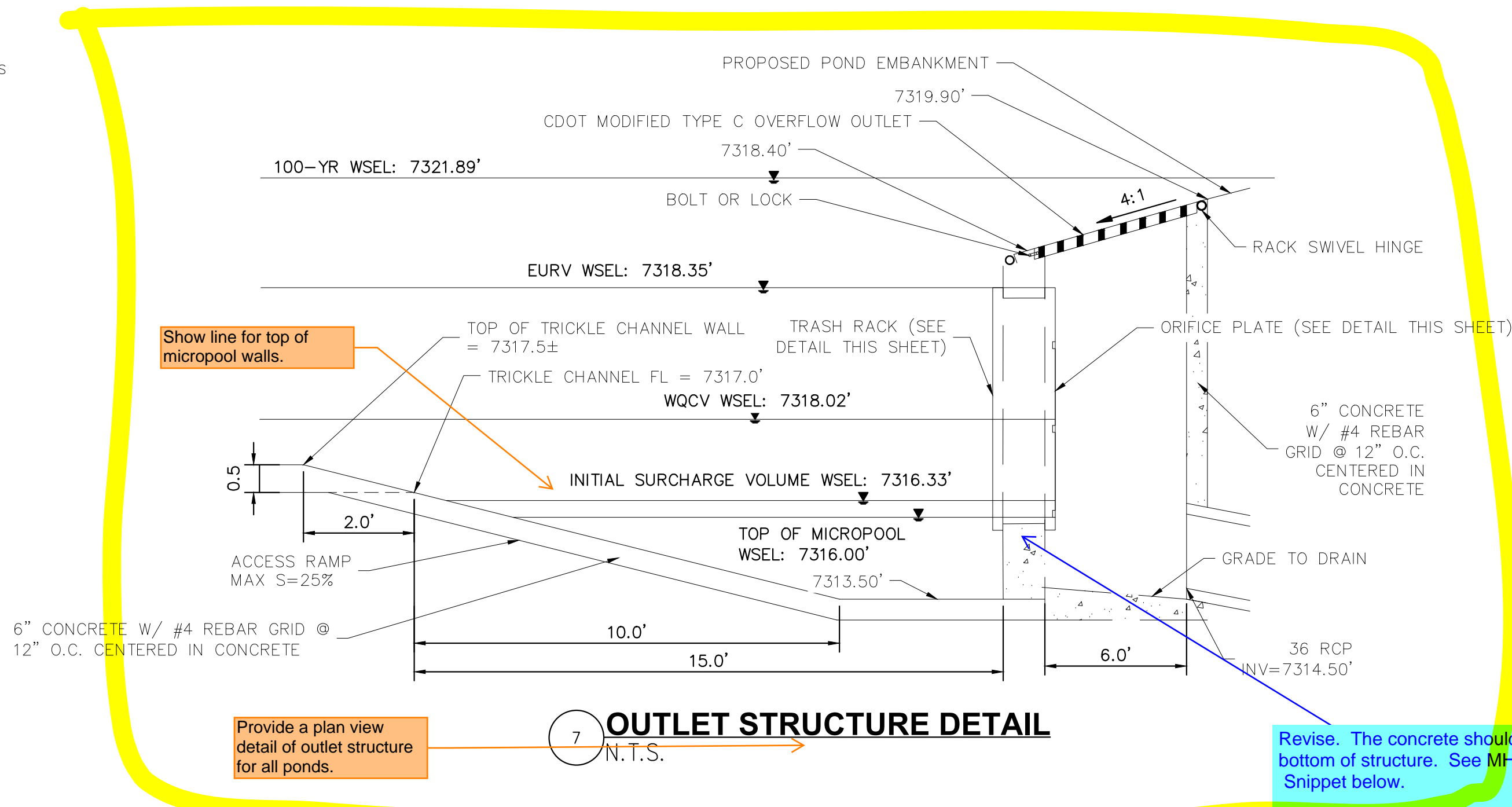
**RIPRAP NOTES:**

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

Table 506-2

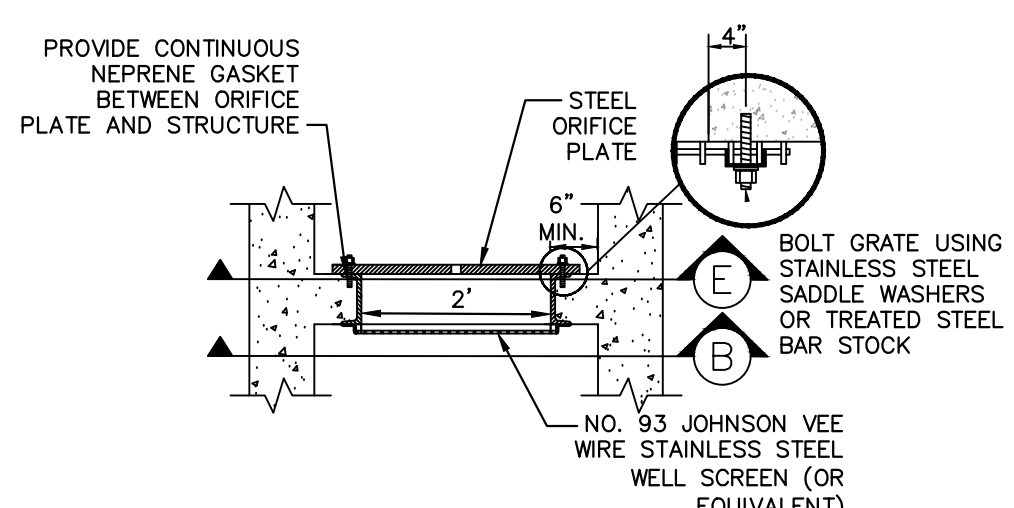
Pay Item	Stone Size d50 <sup>1</sup> (Inches)	Percent of Material Smaller Than Typical Stone <sup>2</sup>	Typical Stone Dimensions <sup>3</sup> (Inches)	Typical Stone Weight <sup>4</sup> (Pounds)
Riprap	6	70-100	12	85
		50-70	9	35
		35-50	6	10
Riprap	9	70-100	15	160
		50-70	12	85
		35-50	9	35
Riprap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

<sup>1</sup>d50 = nominal stone size  
<sup>2</sup>based on typical rock mass  
<sup>3</sup>equivalent spherical diameter  
<sup>4</sup>based on a specific gravity = 2.5



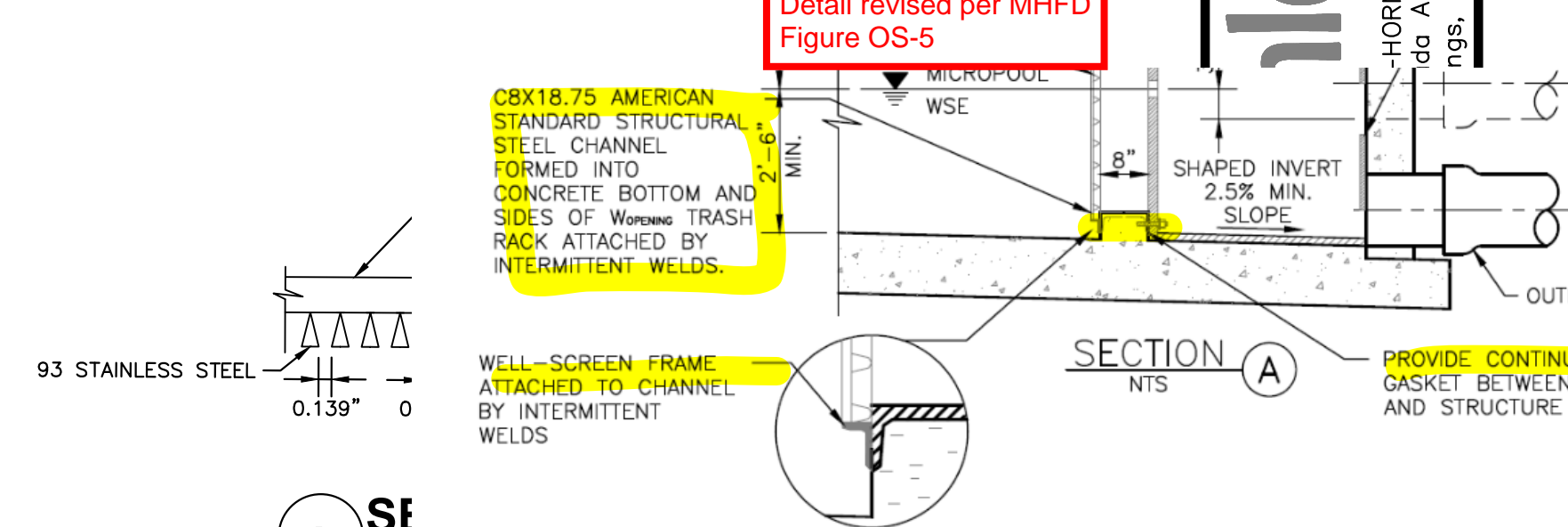
**7 OUTLET STRUCTURE DETAIL**

N.T.S.



**SECTION A**

N.T.S.

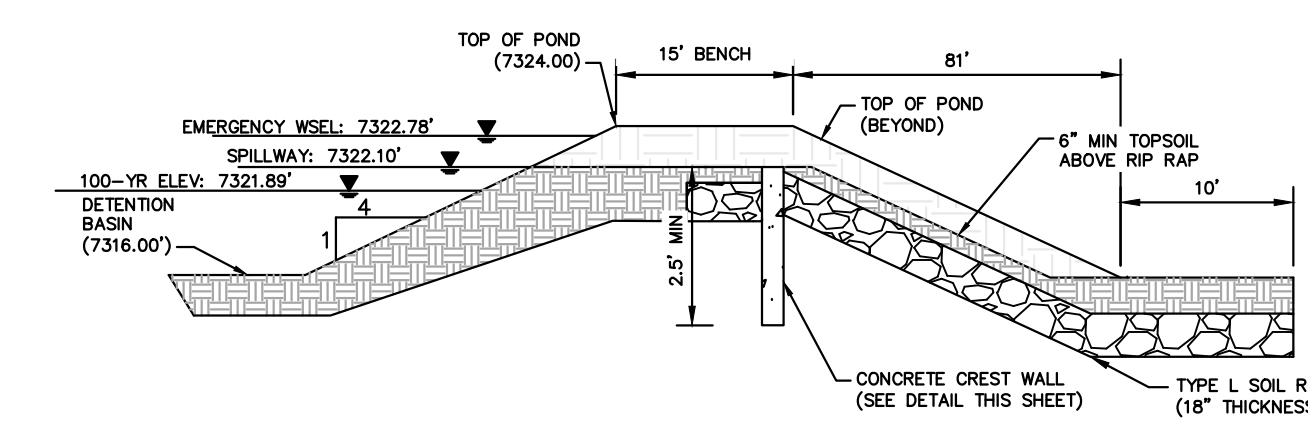


**SECTION B**

N.T.S.

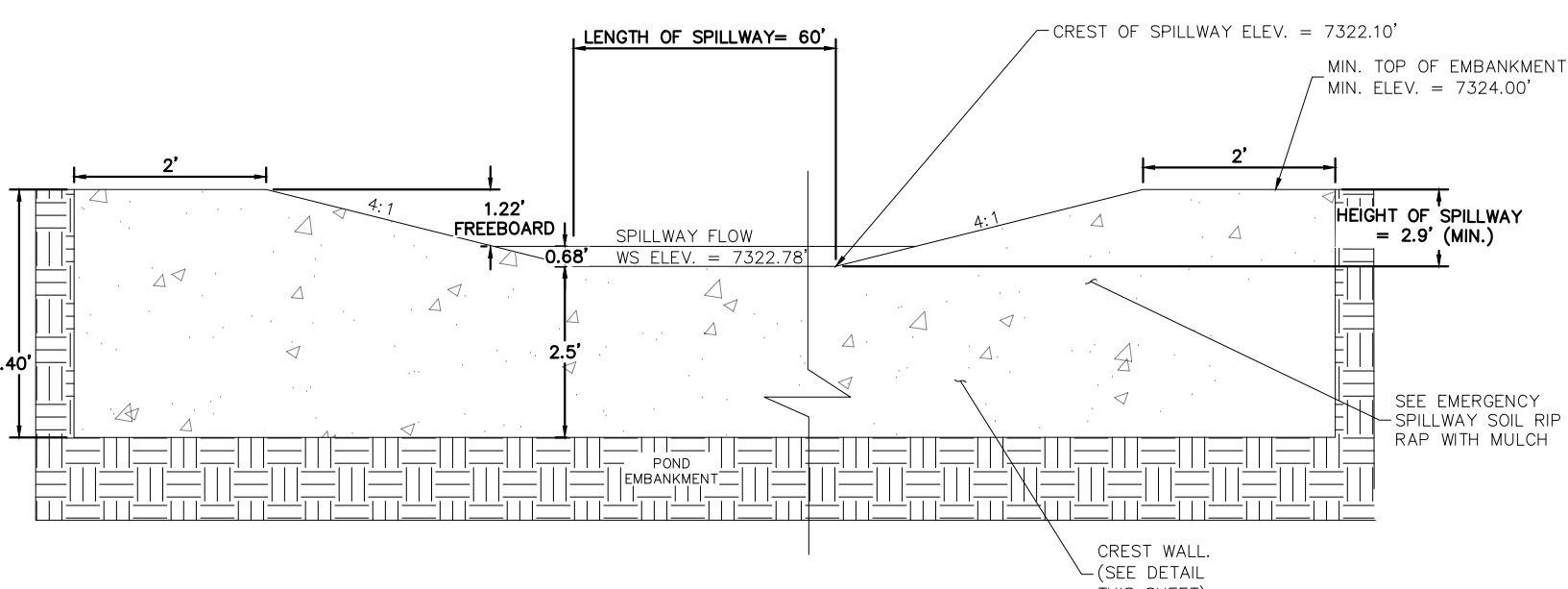
Revise. The concrete should be closer to the bottom of structure. See MHFD Figure OS-5. Snippet below.

Detail revised per MHFD Figure OS-5



**8 EMERGENCY SPILLWAY DETAILS**

N.T.S.



**9 EMERGENCY SPILLWAY**

N.T.S.

UPDATD per mhfd 31-37-00 table 1

Soil Riprap: Specify installation instructions and mix ratio for soil riprap. As an example, note: "Per MHFD Spec Section 31-37-00, the soil material shall be native or topsoil and mixed with 65% riprap and 35% soil by volume. And soil riprap shall consist of uniform mixture of soil and riprap without voids." And specify the riprap type per Table 1 of that spec.

drawn to scale

**Horn**  
HORN AND ASSOCIATES, INC.  
1000 Avenue Suite 300  
Englewood, Colorado 80903 (719) 453-0180

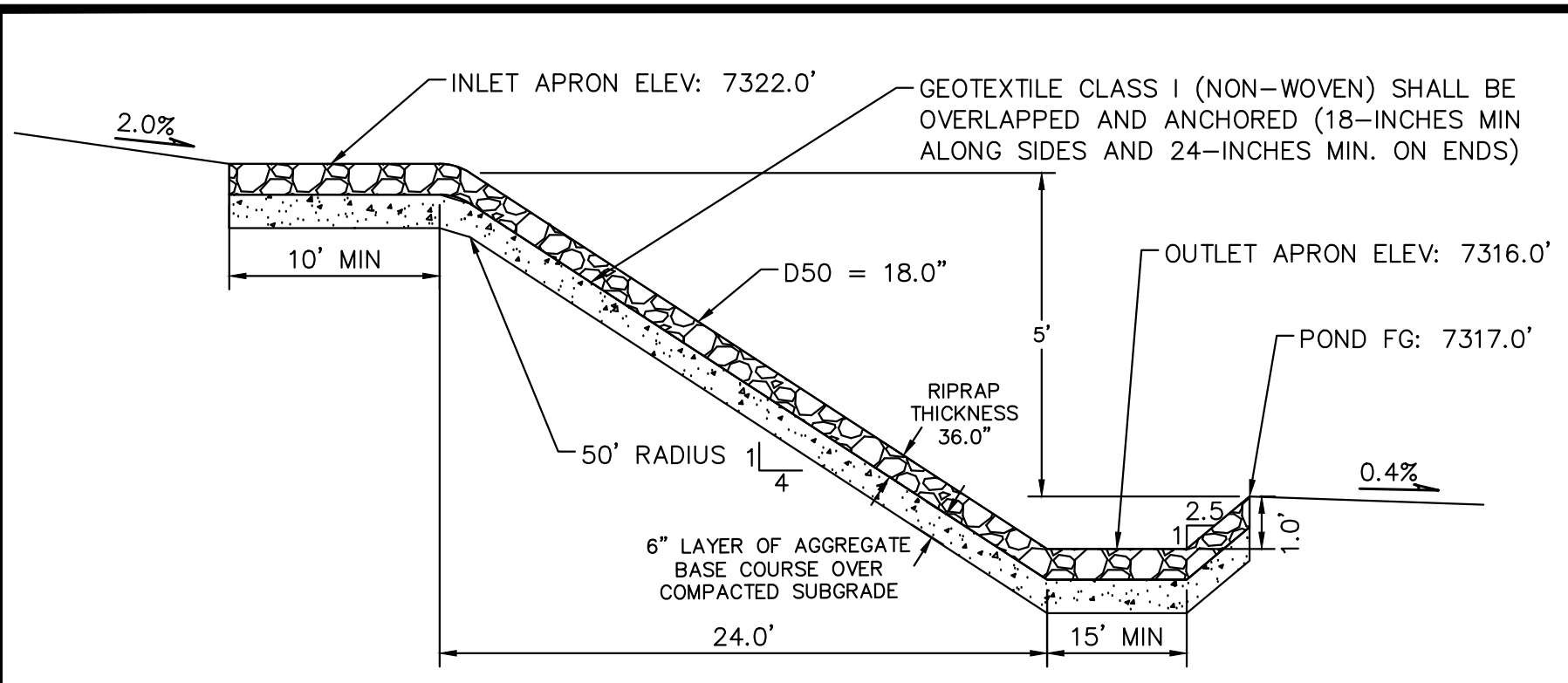
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EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
POND 1 DETAILS

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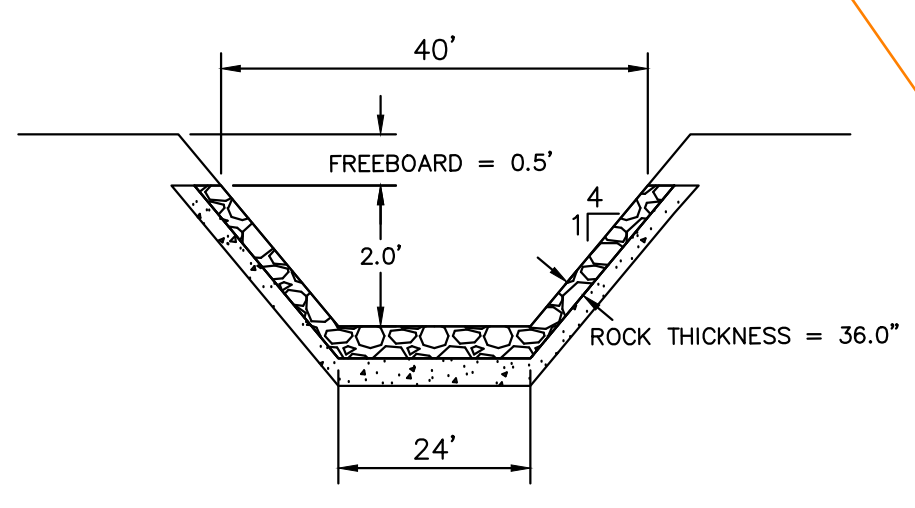
PROJECT NO. 196106001  
SHEET  
**C1.30**



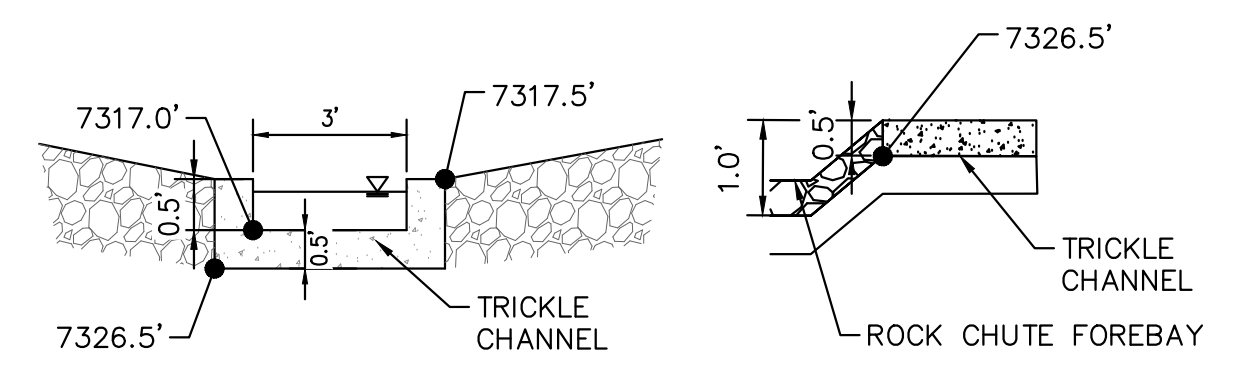
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10 **ROCK CHUTE #4 PROFILE- CROSS SECTION 1**  
N.T.S.



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



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

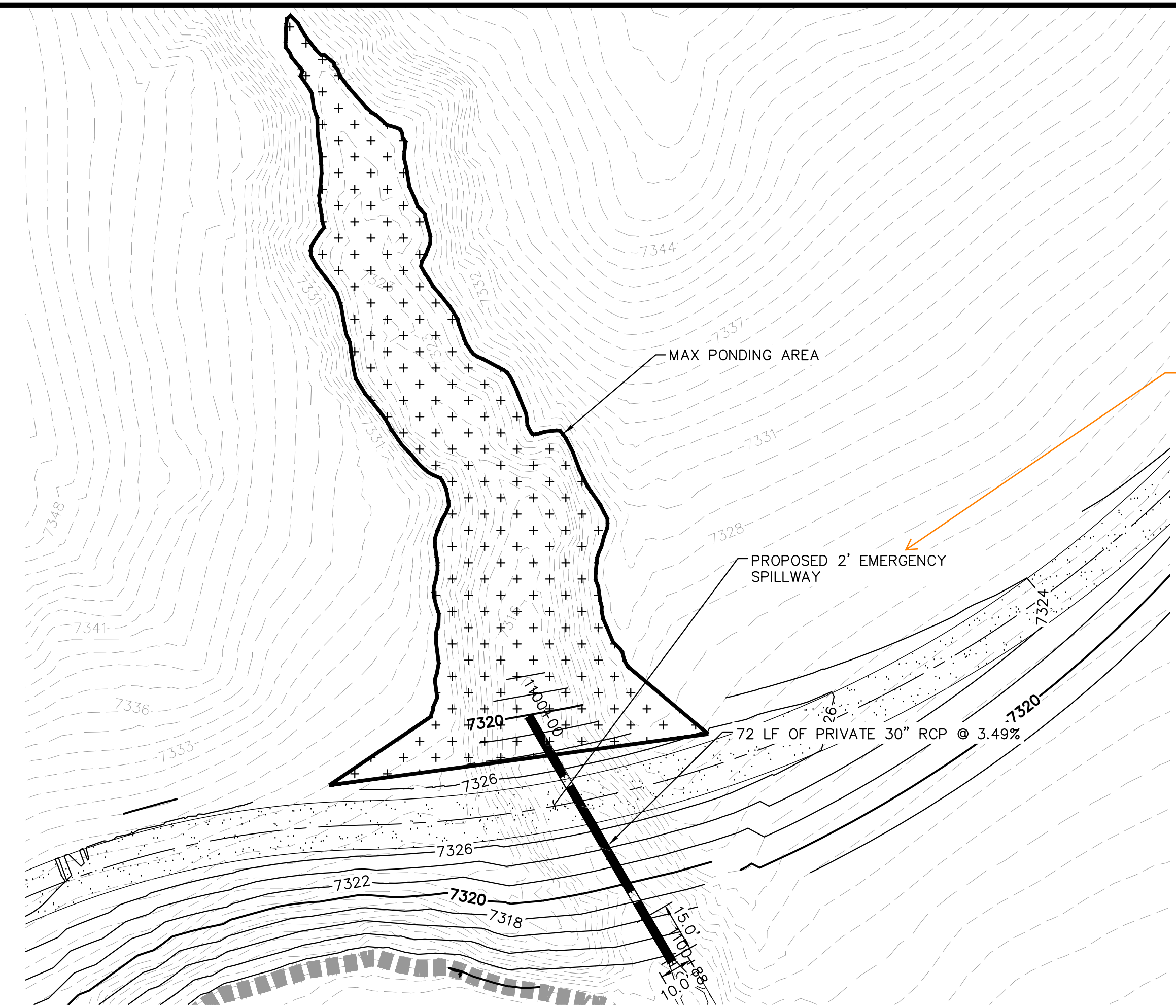
If this is to be used as a forebay, see excerpt from MHFD Detail T-5 below for recommended configuration/design of forebay and revise design accordingly (as applicable):

The forebay outlet should be sized to release 2% of the undetained peak 100-year discharge. A soil riprap berm with 3:1 sideslopes (or flatter) and a pipe outlet or a concrete wall with a notch outlet should be constructed between the forebay and the main EDB. It is recommended that the berm/pipe configuration be reserved for watersheds in excess of 20 impervious acres to accommodate the minimum recommended pipe diameter of 8 inches. When using the berm/pipe configuration, round up to the nearest standard pipe size and use a minimum diameter of 8 inches. The floor of the forebay should be concrete or lined with grouted boulders to define sediment removal limits. With either configuration, soil riprap should also be provided on the downstream side of the forebay berm or wall if the downstream grade is lower than the top of the berm or wall. The forebay will overtop frequently so this protection is necessary for erosion control. All soil riprap in the area of the forebay should be seeded and erosion control fabric should be placed to retain the seed in this high flow area.

Forebay should meter flows with a vertical wall and a notch to release 2% of 100yr flows.

This is a typical comment about all Rock Shutes into all ponds.

rock chutes with forebay applications were modified to have a distilling basin above ground with a rock berm and notch to be in compliance with all MHFD criteria.

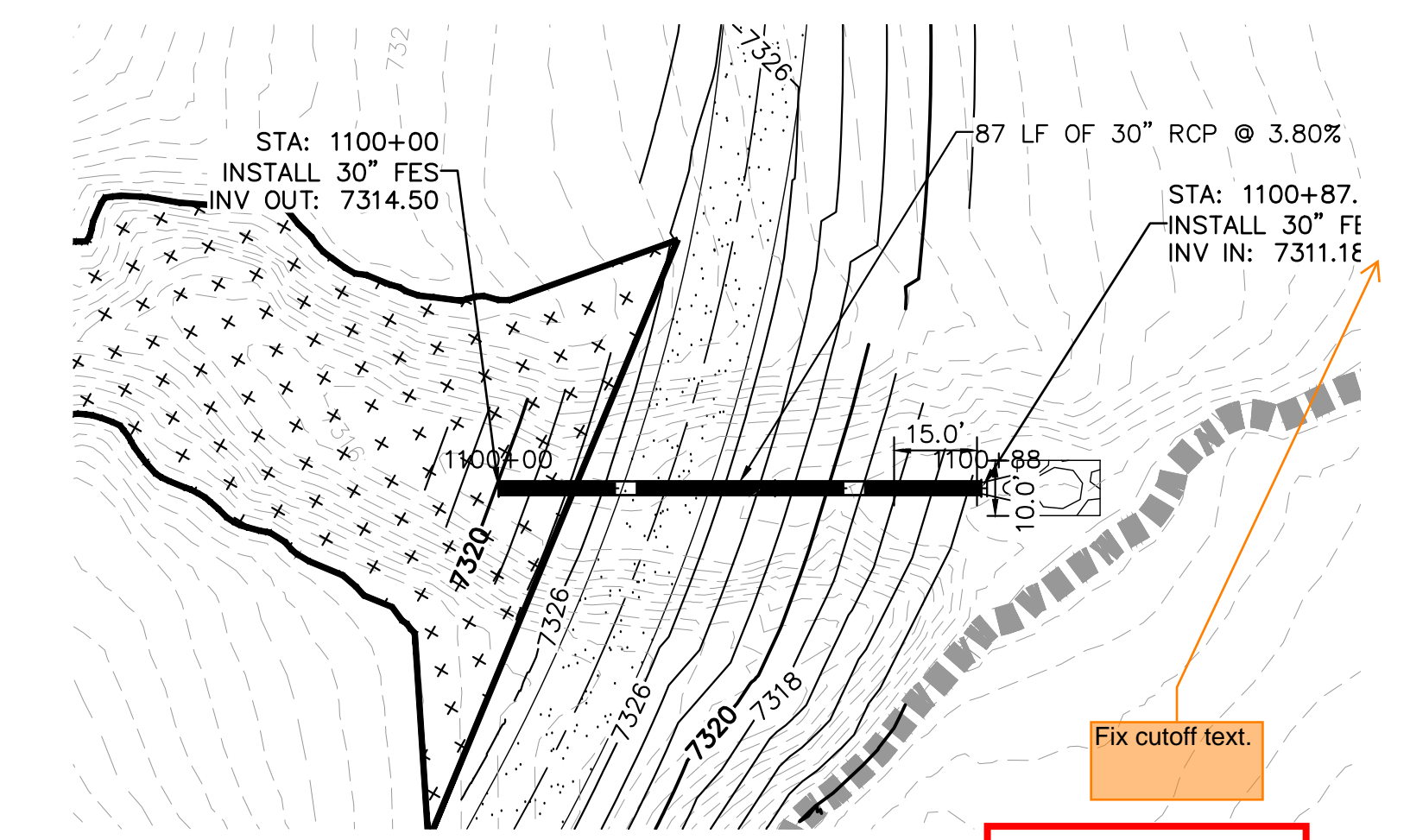


**PERMANENT SEDIMENT BASIN H5B**  
GRAPHIC SCALE IN FEET  
0 15 30 60  
NORTH

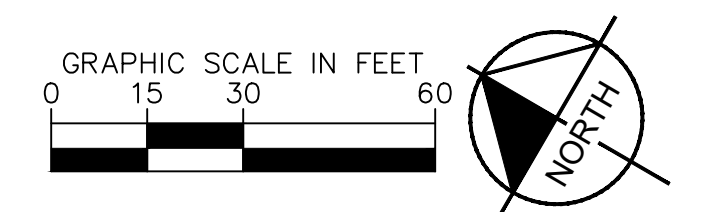
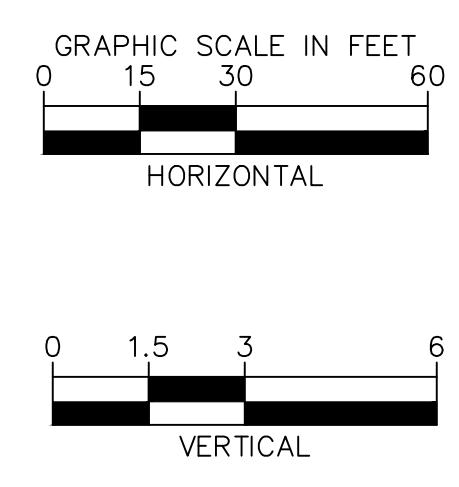
Recommend deleting if final design and construction of the permanent sediment basin is included with the early grading application so it avoid duplicates that may not be consistent with each other.  
On the Grading plan add a note referencing the early grading construction plan for construction details.

Provide detail for this spillway. And it should match specifications shown on pdf pg 357 of FDR.

Sediment Basin H5B is now shown in the Early Grading Plans.



**PERMANENT SEDIMENT BASIN H5B OUTLET PIPE PLAN AND PROFILE**



Fix cutoff text.  
updated to fix cutoff text



NO.	REVISION	BY	DATE	APPR.

**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

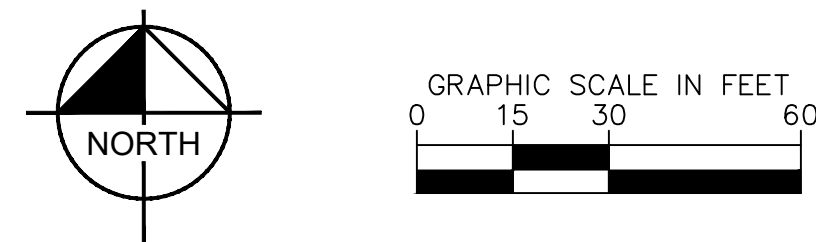
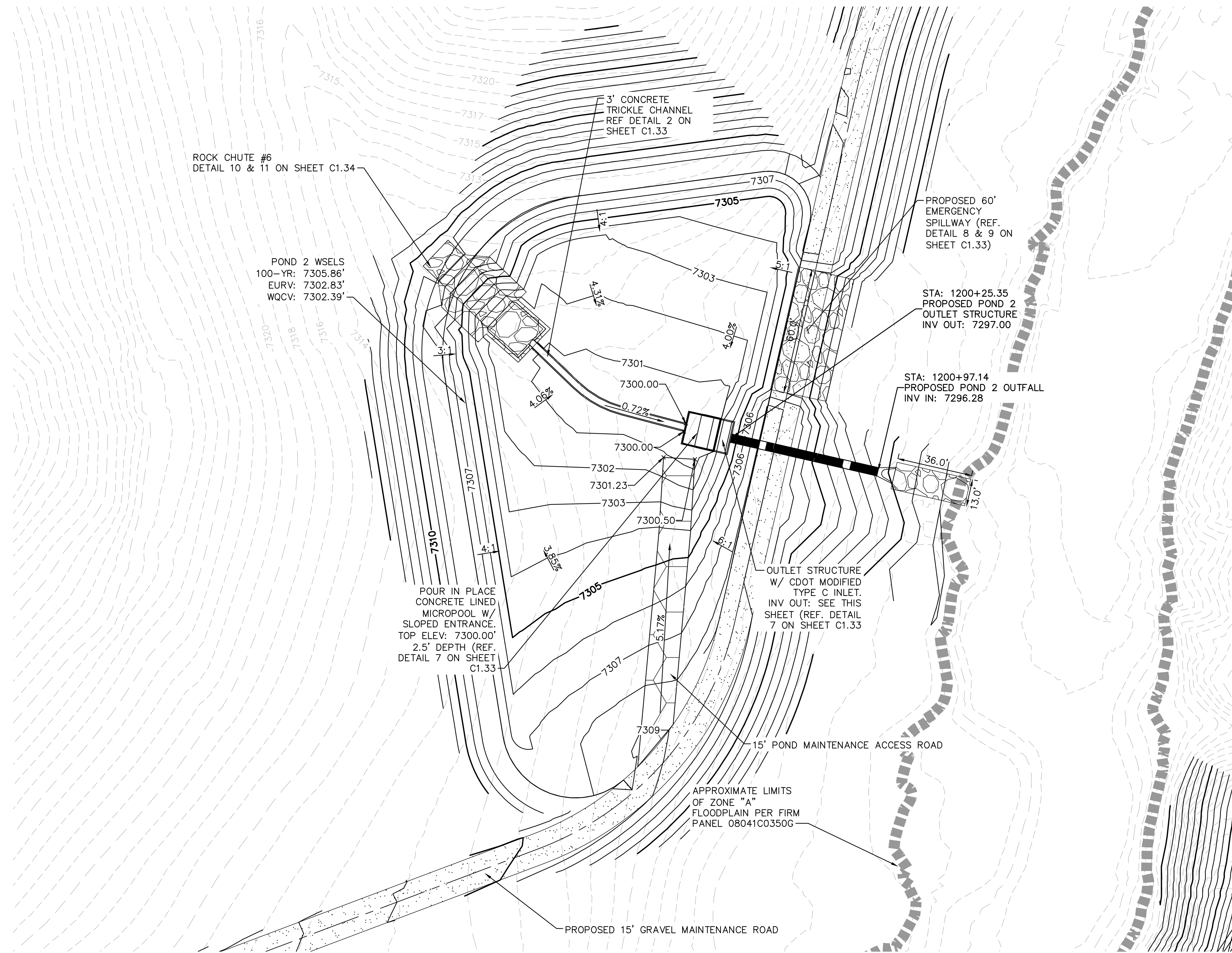
WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
**POND 1 & SEDIMENT BASIN H5B DETAILS**

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PROJECT NO.  
196106001  
SHEET  
**C1.31**

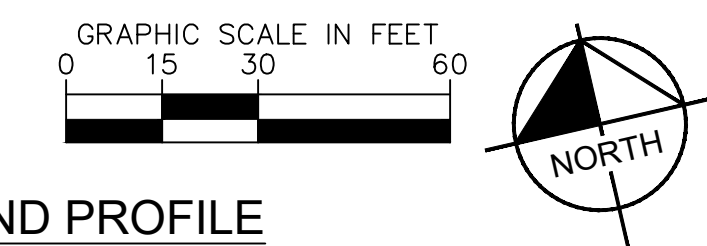
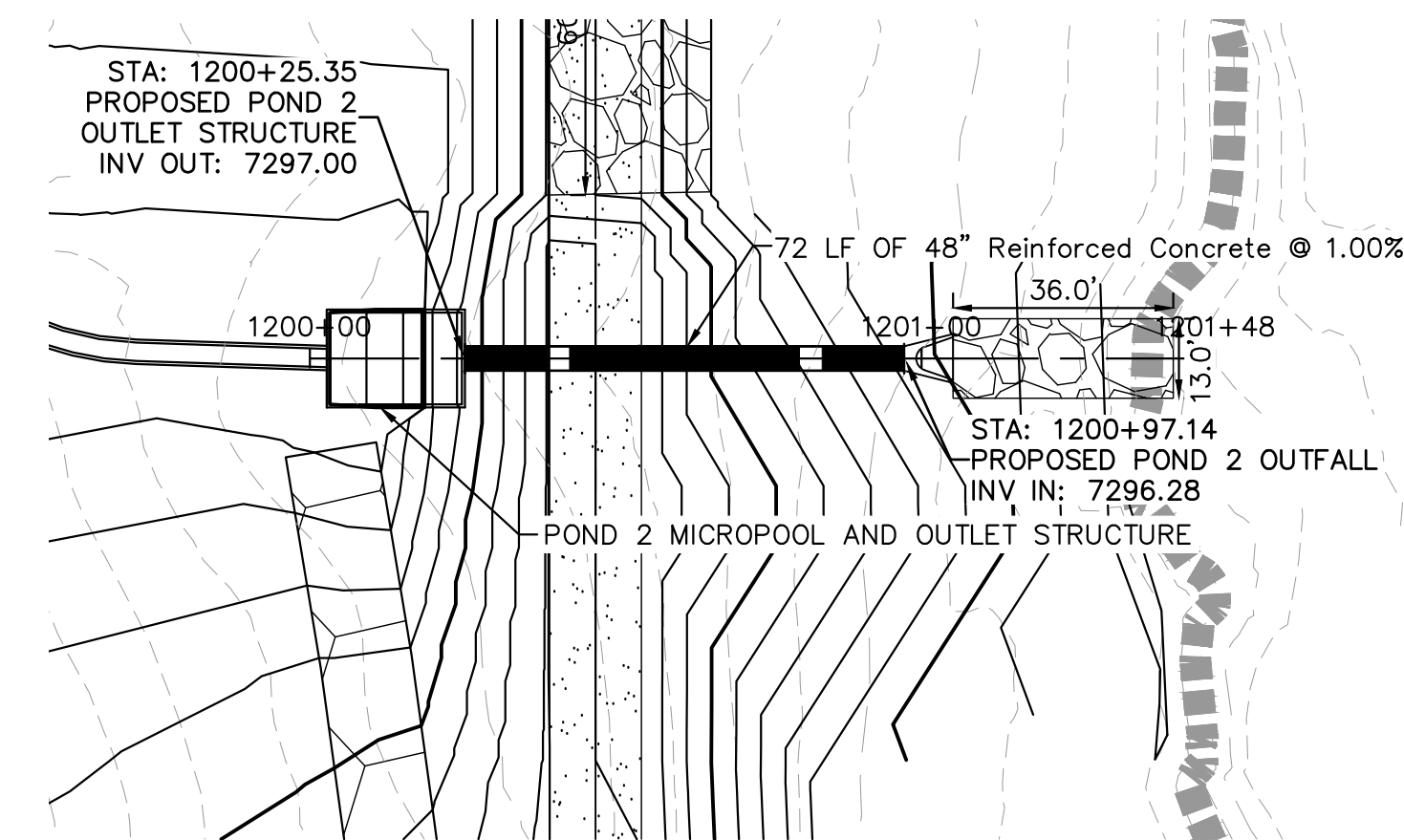


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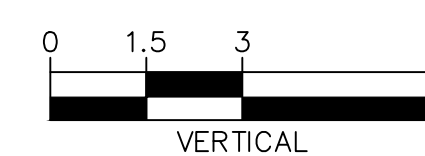
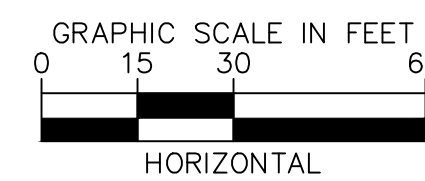
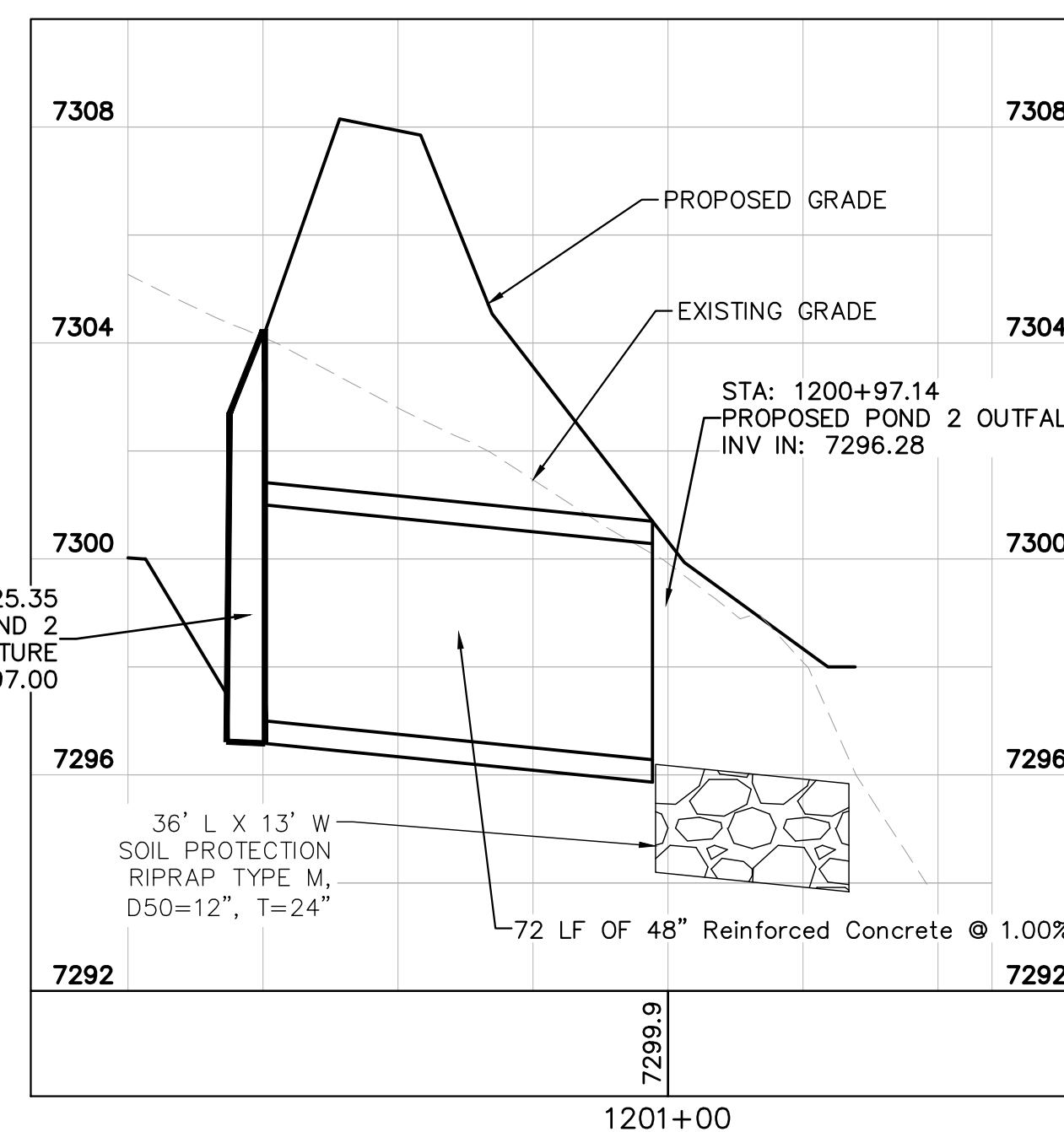


**LEGEND**

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



**POND 2 OUTLET PIPE PLAN AND PROFILE**



NO.	REVISION	BY	DATE	APPR.

**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

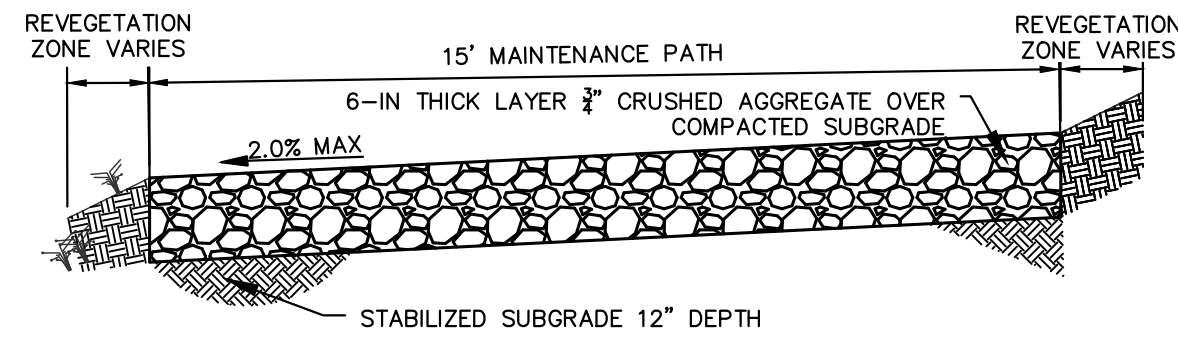
WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
**POND 2 OVERVIEW**

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PROJECT NO.  
196106001

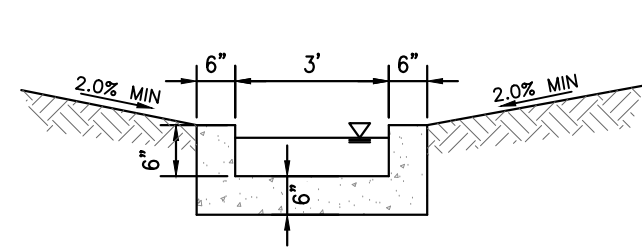
SHEET

**C1.32**



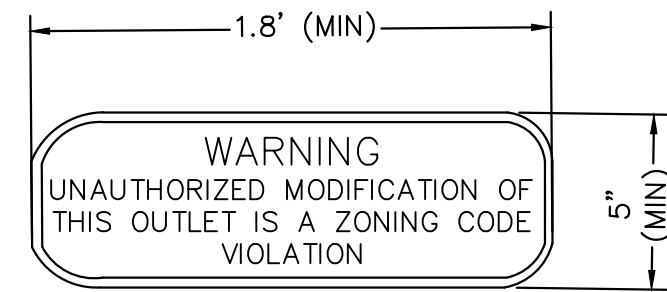
**1 MAINTENANCE ROAD**

N.T.S.  
**MAINTENANCE PATH NOTES**  
 1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



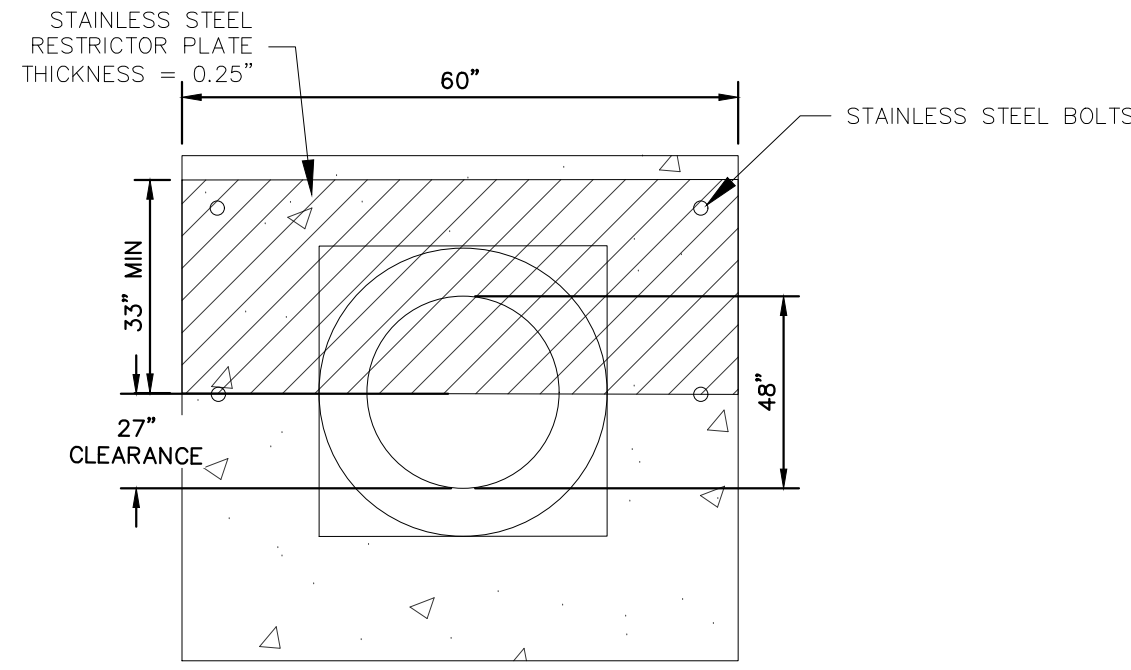
**2 CONCRETE TRICKLE CHANNEL**

N.T.S.



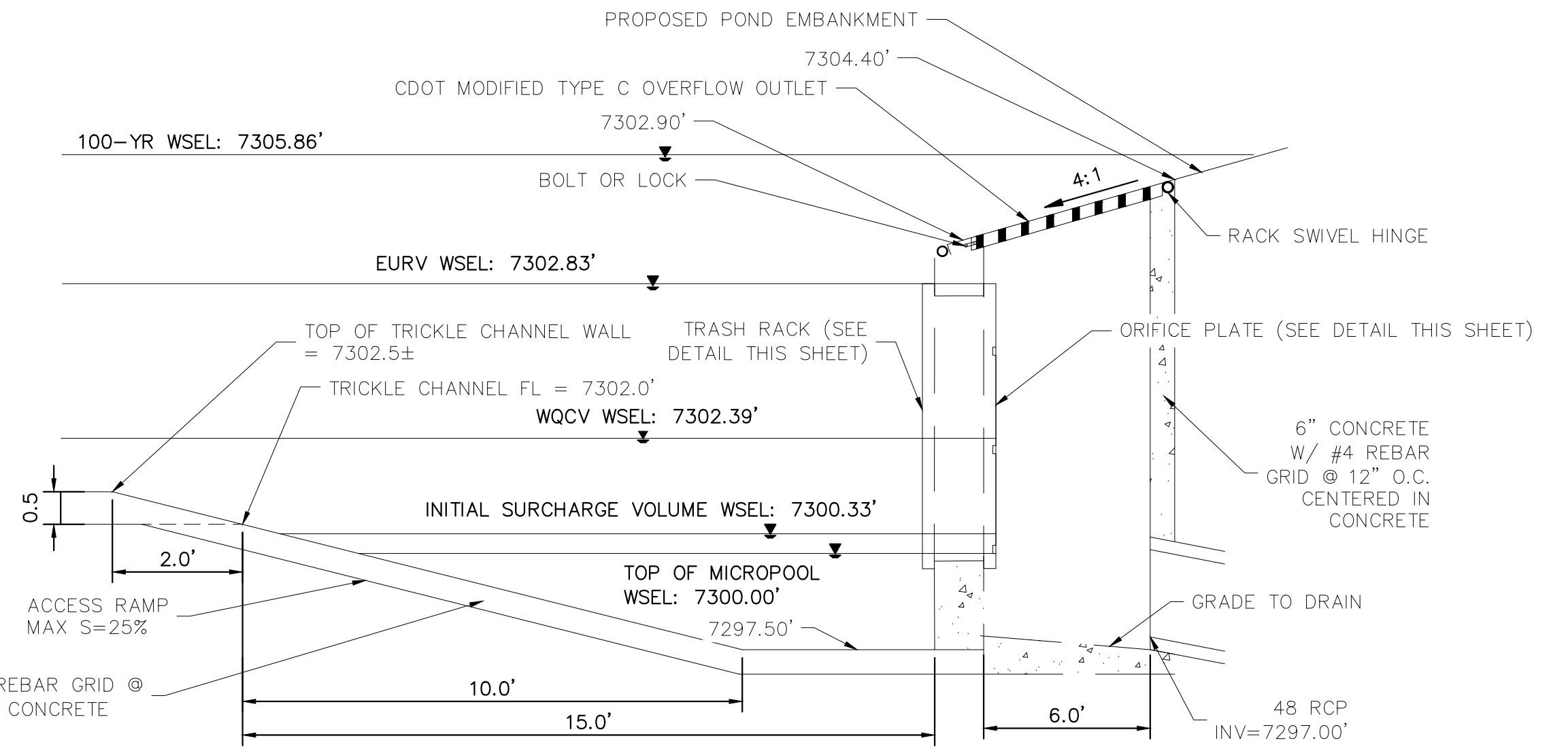
**3 OUTLET SIGNAGE**

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.



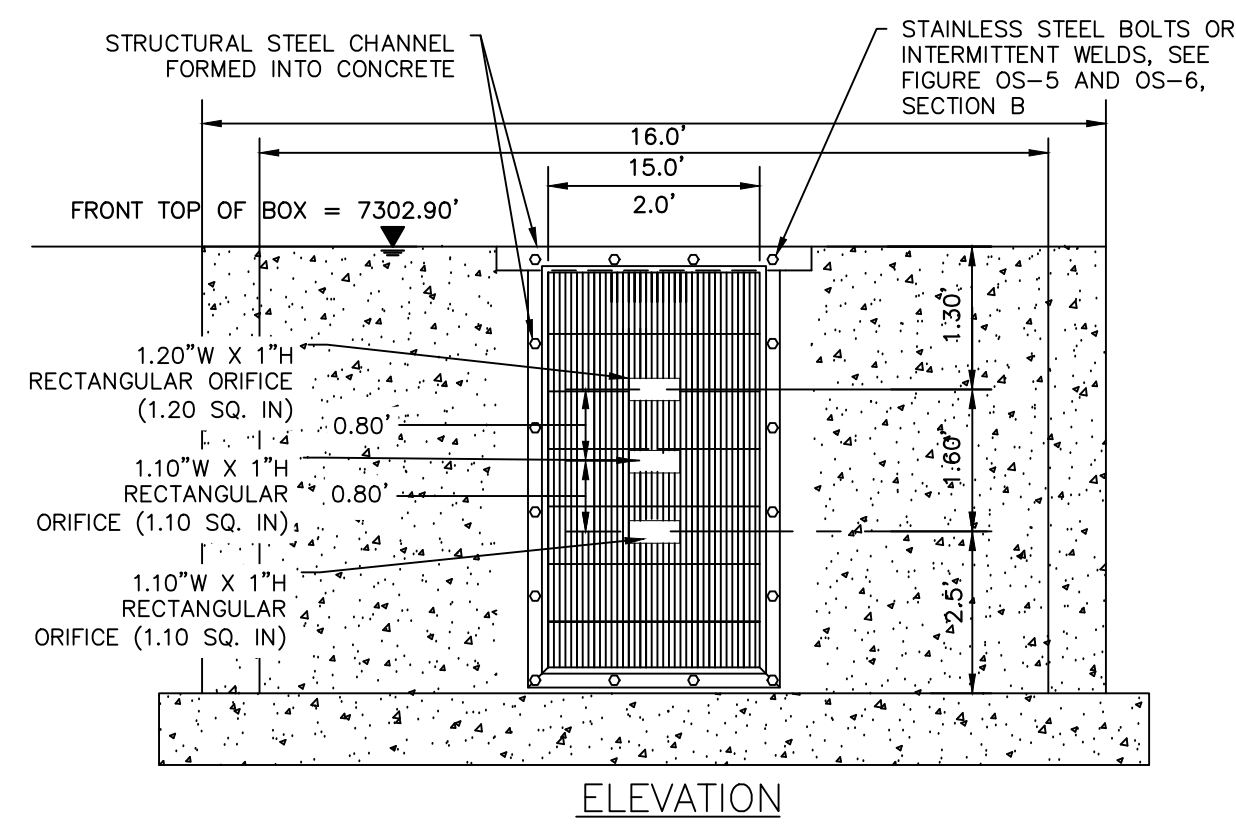
**5 100-YEAR FLOW RESTRICTOR B**

N.T.S.



**7 OUTLET STRUCTURE DETAIL**

N.T.S.



**4 ORIFICE PLATE AND TRASH RACK DETAIL**

N.T.S.

**ORIFICE PLATE NOTES**

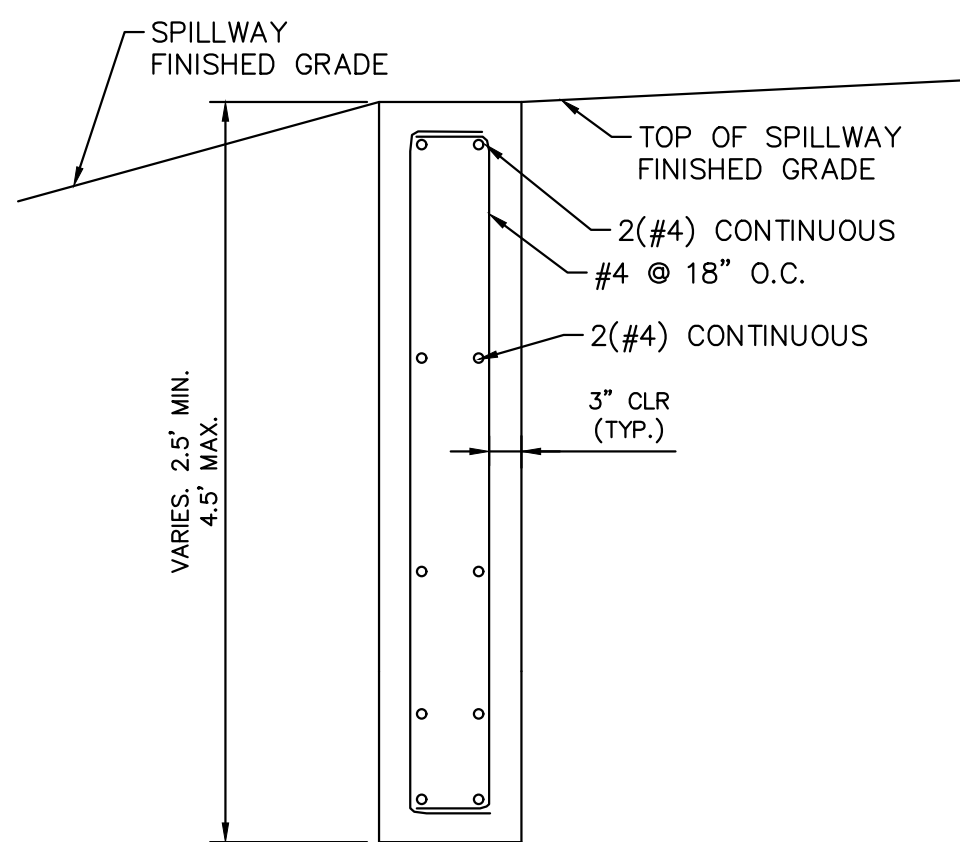
- PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
- BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

**EURV AND WQCV TRASH RACKS**

- WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
- BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
- TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
- STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

**OVERFLOW SAFETY GRATES**

- ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
- SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
- SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
- STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.



**6 SECTION CREST WALL DETAIL**

N.T.S.

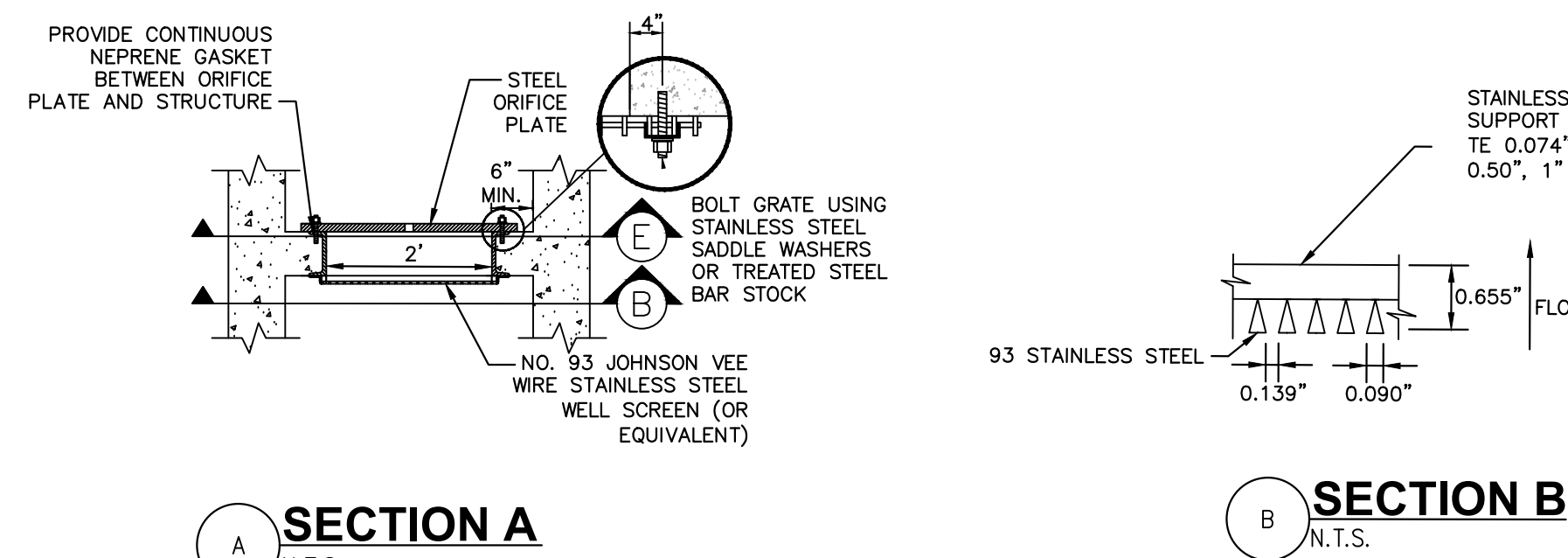
**RIPRAP NOTES:**

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

Table 506-2

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

<sup>1</sup>d50 = nominal stone size  
<sup>2</sup>based on typical rock mass  
<sup>3</sup>equivalent spherical diameter  
<sup>4</sup>based on a specific gravity = 2.5

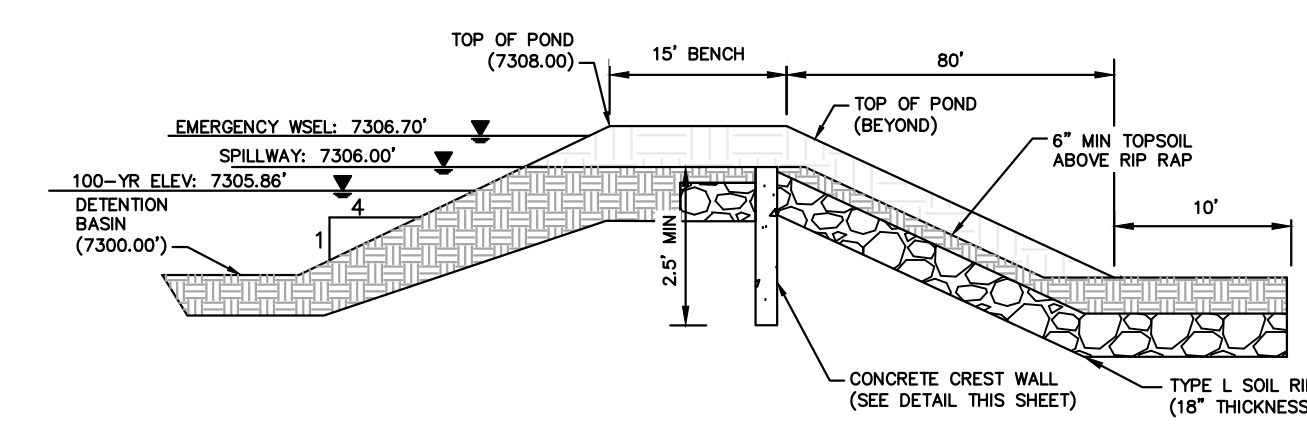


**A SECTION A**

N.T.S.

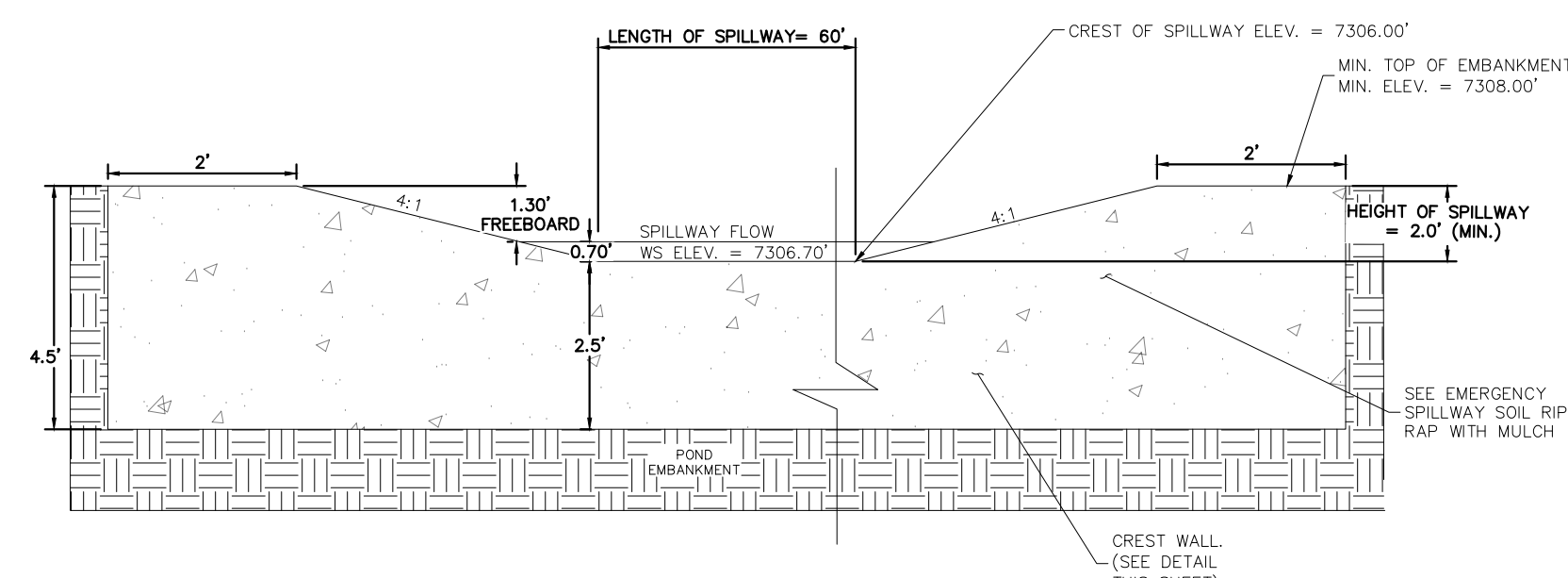
**B SECTION B**

N.T.S.



**8 EMERGENCY SPILLWAY DETAILS**

N.T.S.



**9 EMERGENCY SPILLWAY**

N.T.S.

drawn to scale

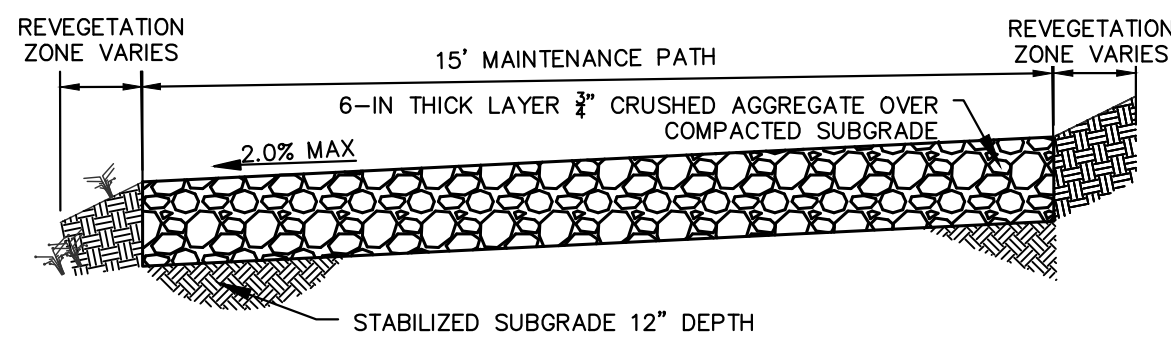
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NO.	REVISION	BY	DATE	APPR.

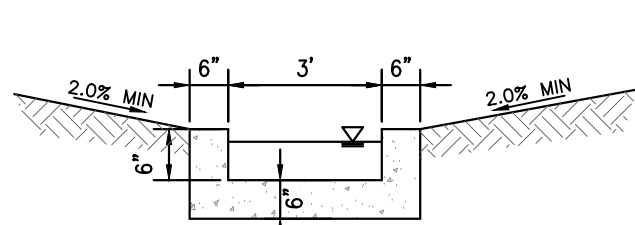






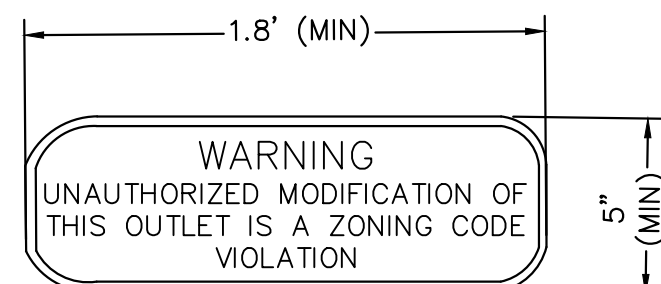
**1 MAINTENANCE ROAD**

N.T.S.  
**MAINTENANCE PATH NOTES**  
 1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



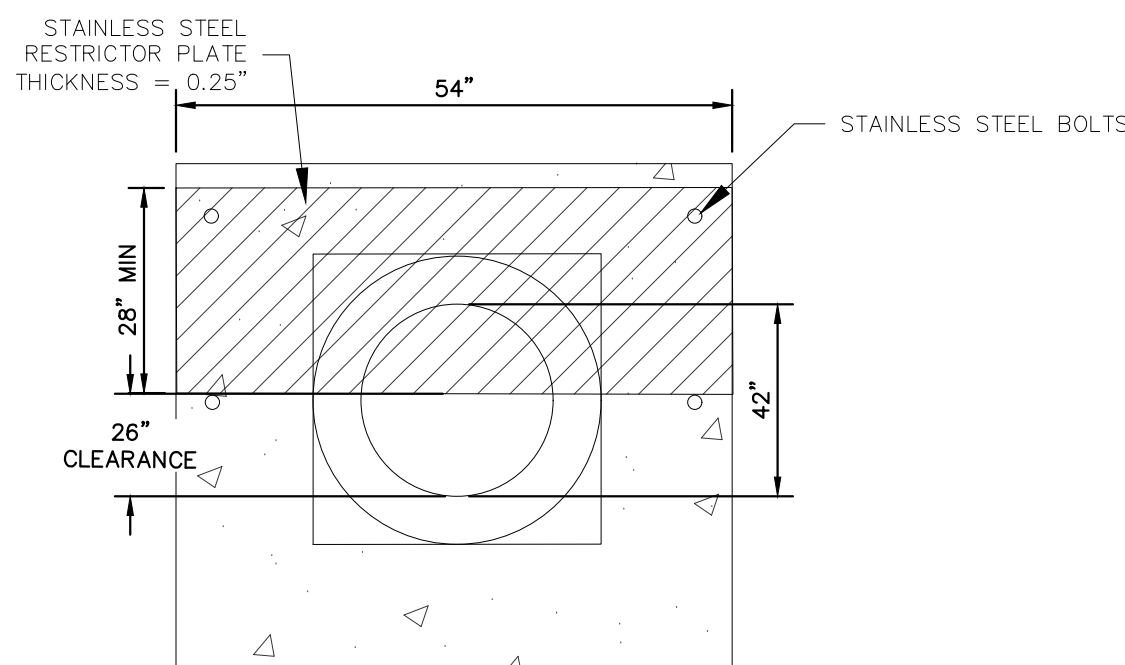
**2 CONCRETE TRICKLE CHANNEL**

N.T.S.



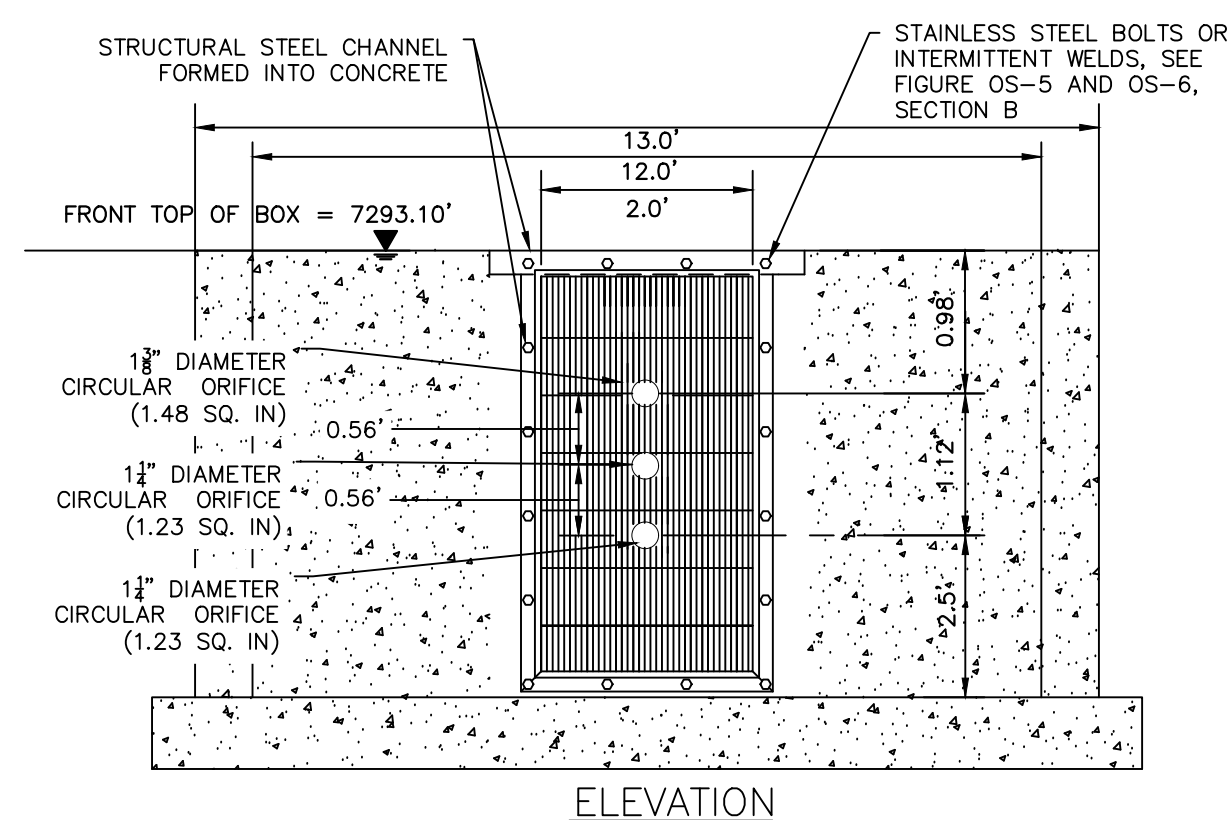
**3 OUTLET SIGNAGE**

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**

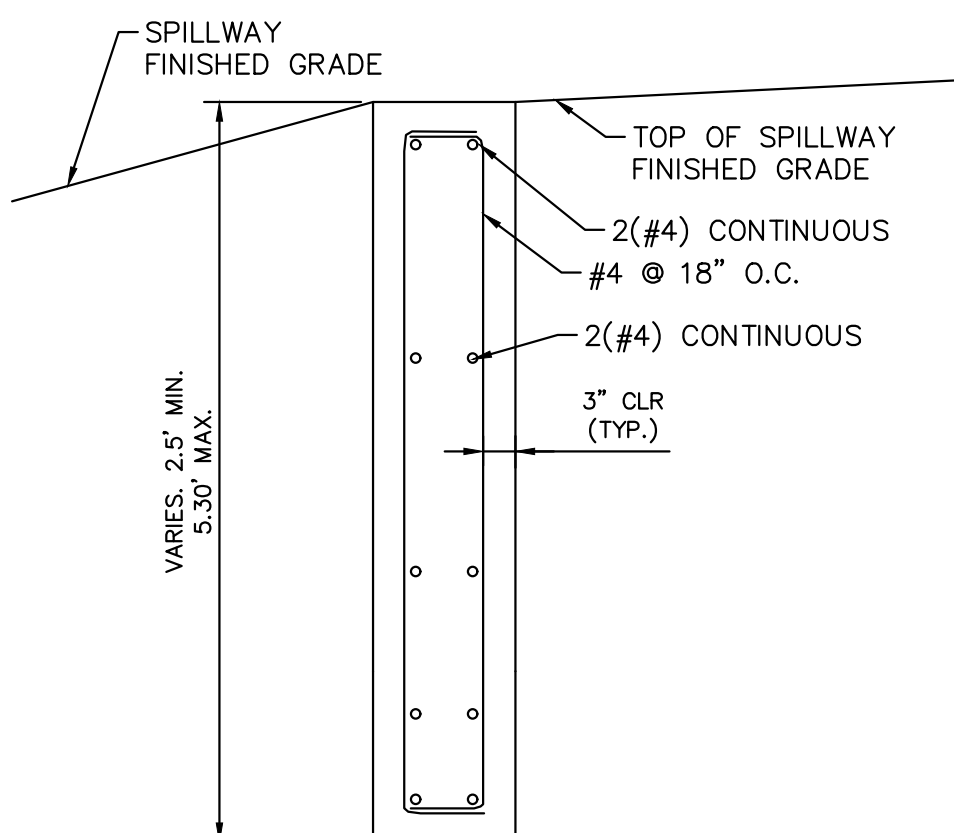
N.T.S.  
**ORIFICE PLATE NOTES**  
 1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.  
 2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER. WITH A PLATE THICKNESS OF 0.25".

**EURV AND WQCV TRASH RACKS**

- WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
- BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
- TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
- STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

**OVERFLOW SAFETY GRATES**

- ALL SAFETY GRATES SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
- SAFETY GRATES SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL GRATES SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
- SAFETY GRATES SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
- STRUCTURAL DESIGN OF SAFETY GRATES SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.



**SECTION CREST WALL DETAIL**

N.T.S.

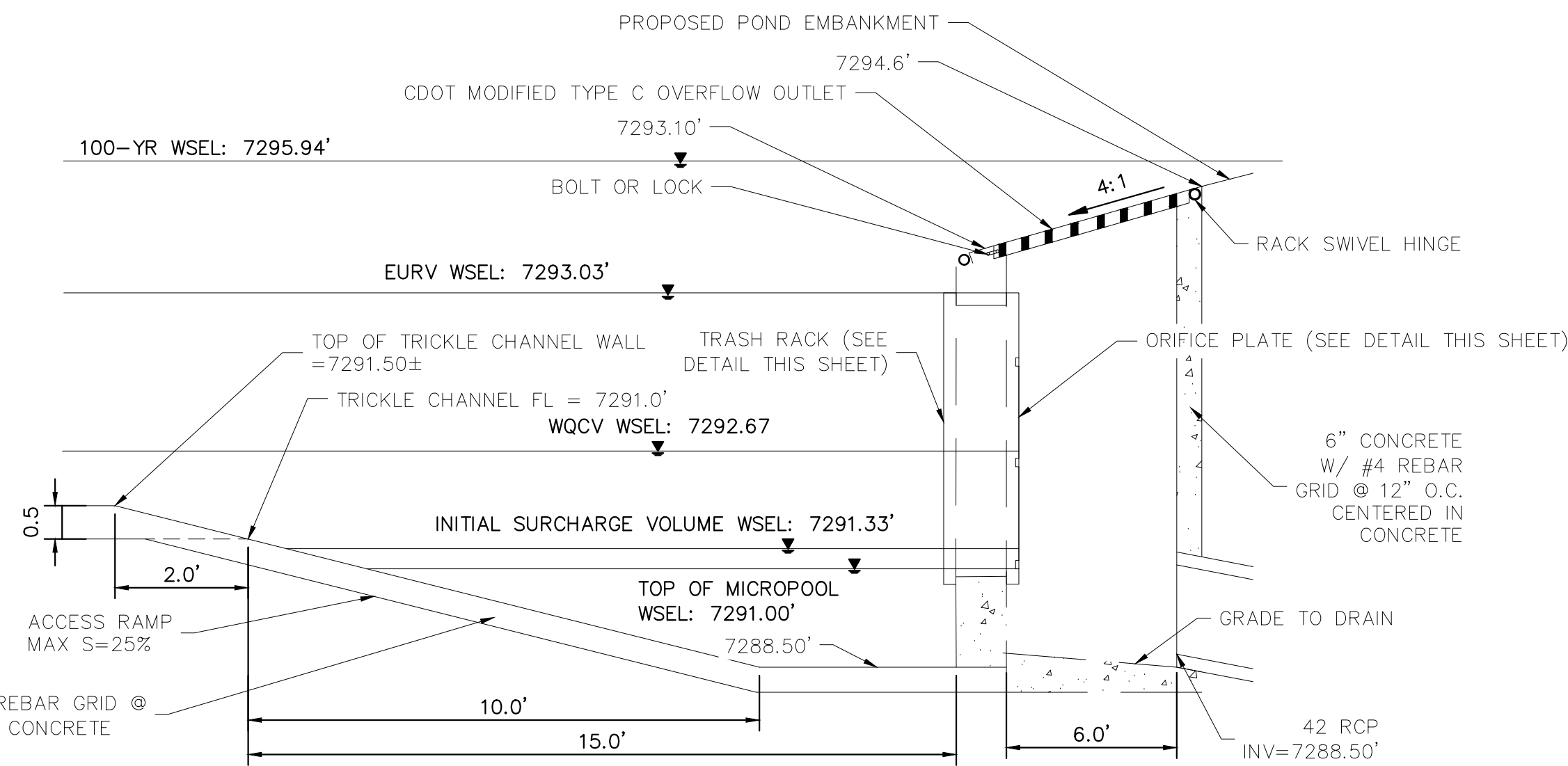
**RIPRAP NOTES:**

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

Table 506-2

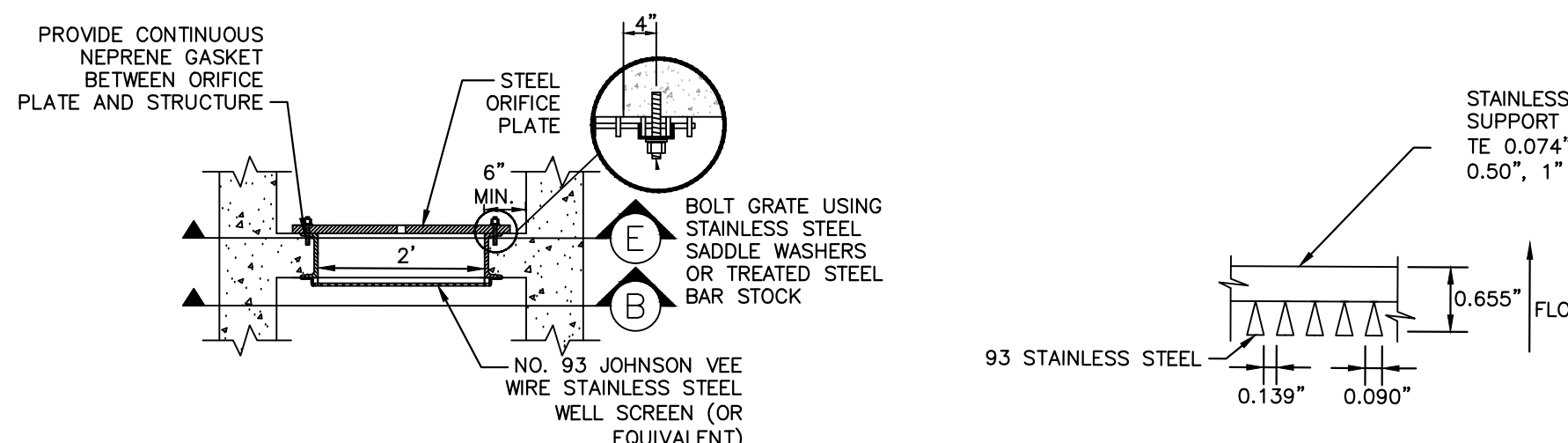
Pay Item	Stone Size d50 <sup>1</sup> (Inches)	Percent of Material Smaller Than Typical Stone <sup>2</sup>	Typical Stone Dimensions <sup>3</sup> (Inches)	Typical Stone Weight <sup>4</sup> (Pounds)
Riprap	6	70-100	12	85
		50-70	9	35
		35-50	6	10
Riprap	9	70-100	15	160
		50-70	12	85
		35-50	9	35
Riprap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

<sup>1</sup>d50 = nominal stone size  
<sup>2</sup>based on typical rock mass  
<sup>3</sup>equivalent spherical diameter  
<sup>4</sup>based on a specific gravity = 2.5



**7 OUTLET STRUCTURE DETAIL**

N.T.S.

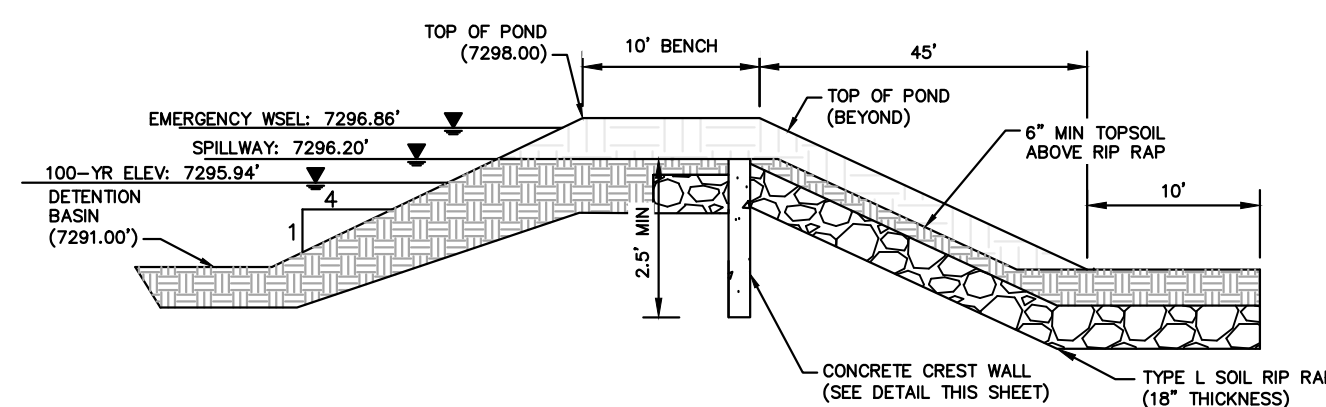


**SECTION A**

N.T.S.

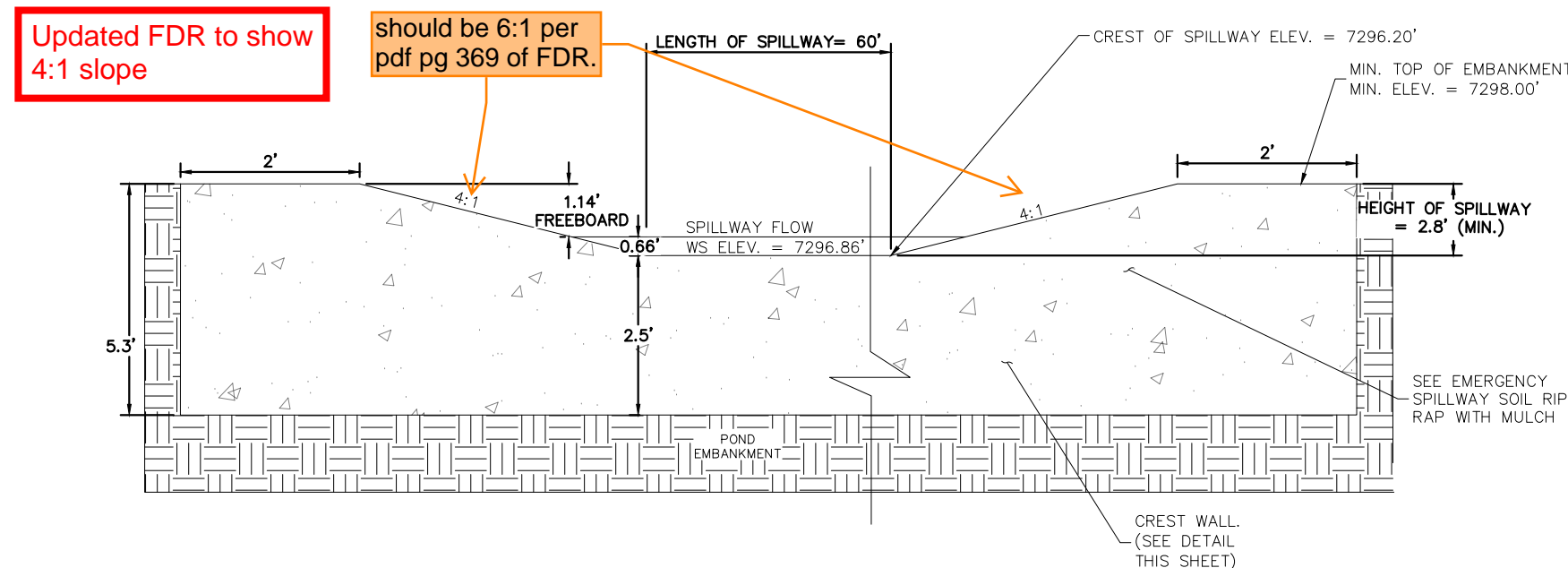
**SECTION B**

N.T.S.



**8 EMERGENCY SPILLWAY DETAILS**

N.T.S.



**9 EMERGENCY SPILLWAY**

N.T.S.

K:\COS\_Civil\196106001\_ Winsome Filing No. 3\CADD\PlanSheets\Cds\196106001\_CD\_POND\_4.dwg Lundberg, Andrew 12/22/2021 1:28 PM



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

WINSOME FILING NO. 3  
 EL PASO COUNTY, COLORADO  
 CONSTRUCTION DOCUMENTS  
 POND 4 DETAILS

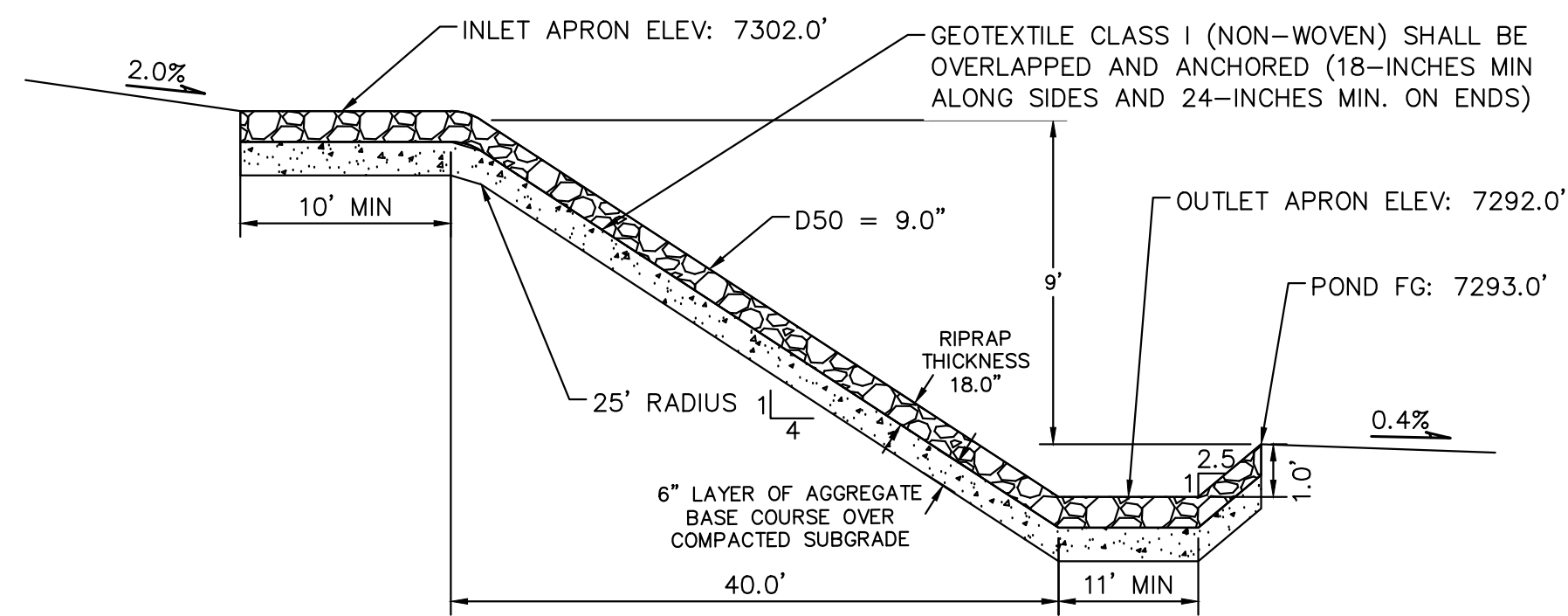
**PRELIMINARY**  
 FOR REVIEW ONLY  
 NOT FOR CONSTRUCTION  
 Kimley-Horn  
 Kimley-Horn and Associates, Inc.

PROJECT NO.  
 196106001

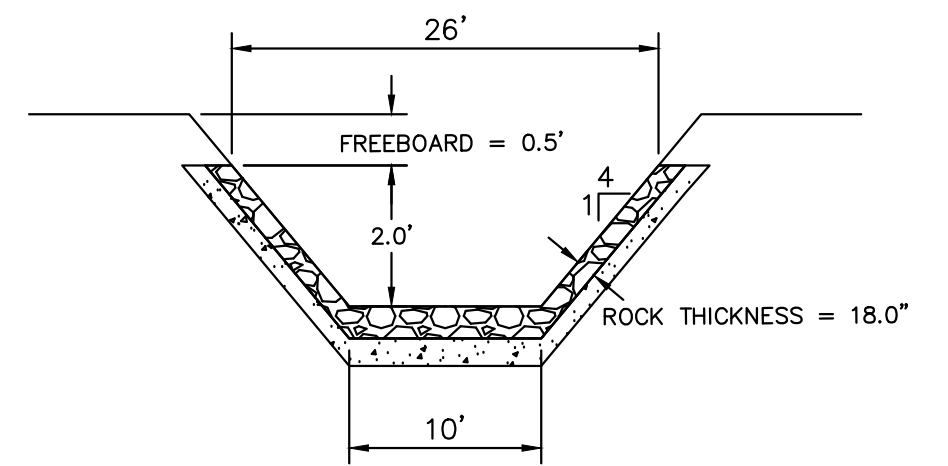
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C1.36

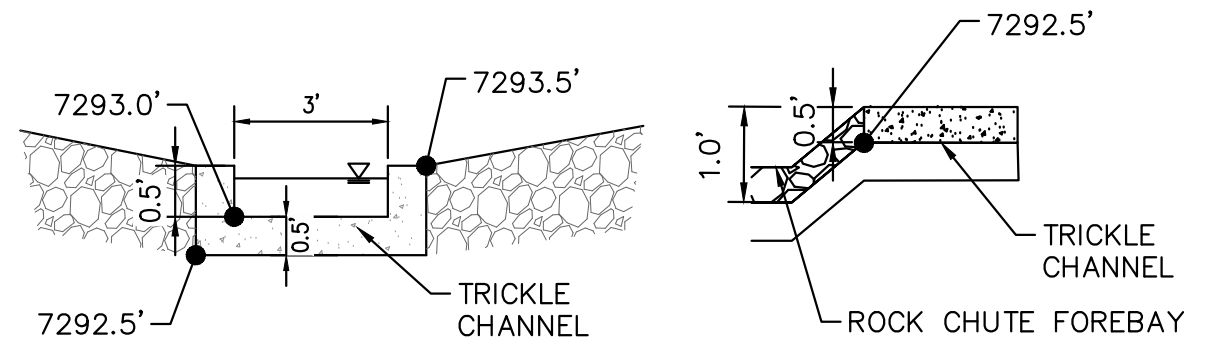
NO.	REVISION	BY	DATE	APPR.



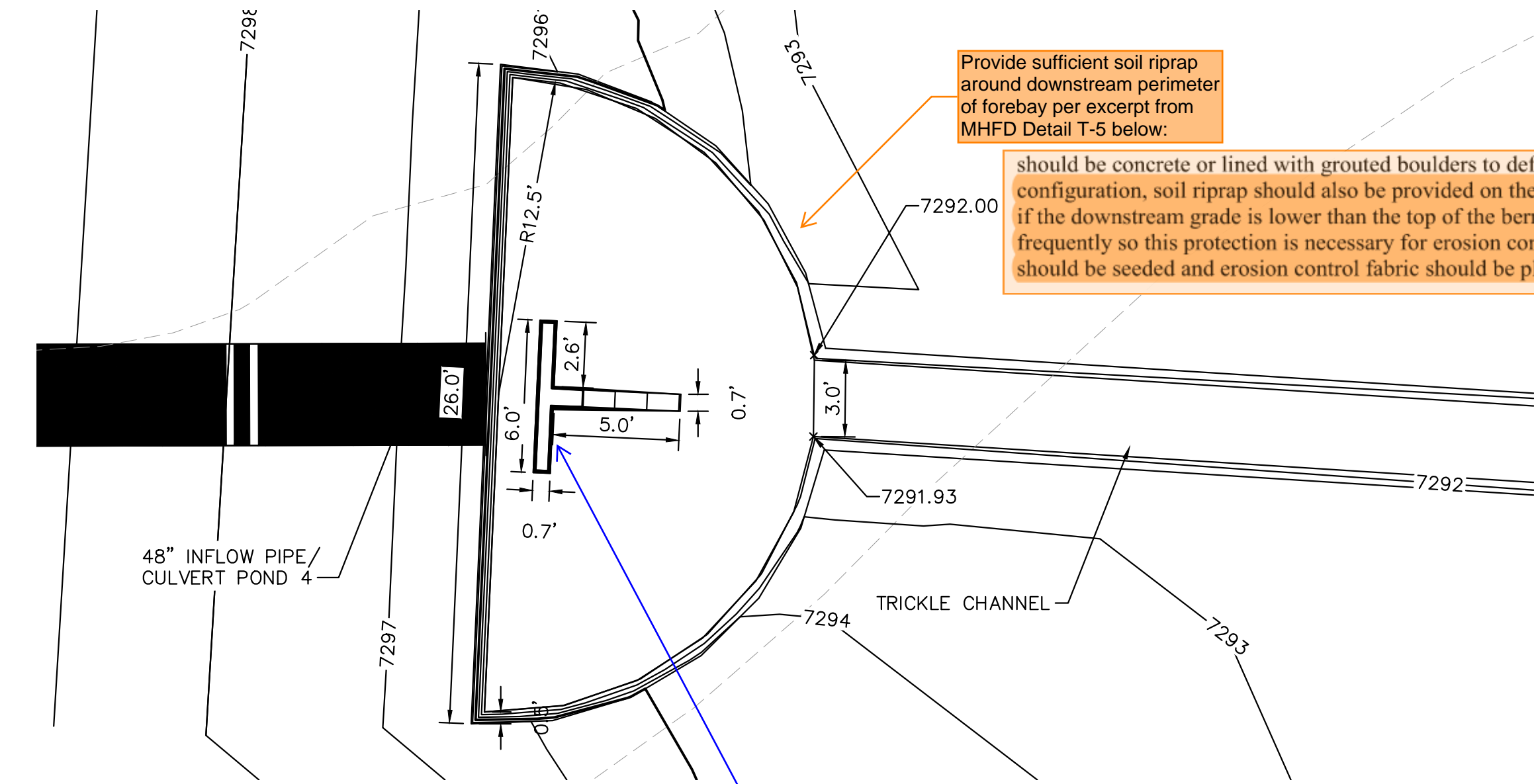
10 **ROCK CHUTE #11 PROFILE- CROSS SECTION 1**  
N.T.S.



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



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

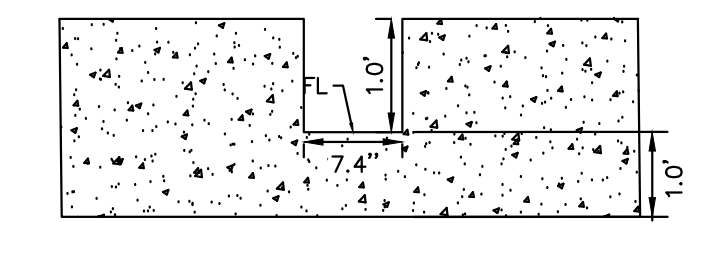


13 **FOREBAY DETAIL PLAN VIEW**  
N.T.S.

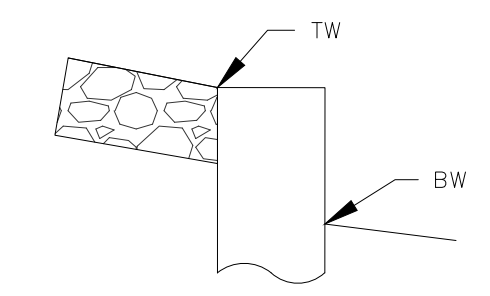
- RETAINING WALL NOTES
1. TW = FINISHED GRADE AT TOP OF WALL
  2. BW = FINISHED GRADE AT BOTTOM OF WALL
  3. SEE DETAIL THIS SHEET FOR FOREBAY DIMENSIONS AND CROSS-SECTION.

Update and provide additional details. See MHFD DCM Vol 2 chapter 9 for design parameters. See snippet to the left

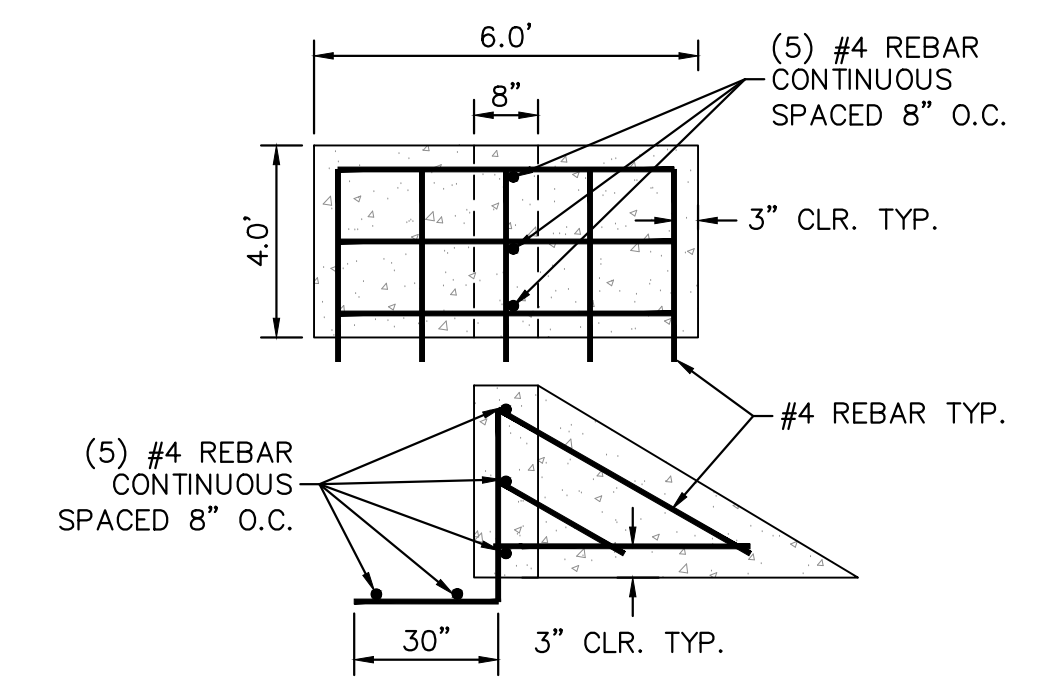
PROVIDED section view updated with riprap



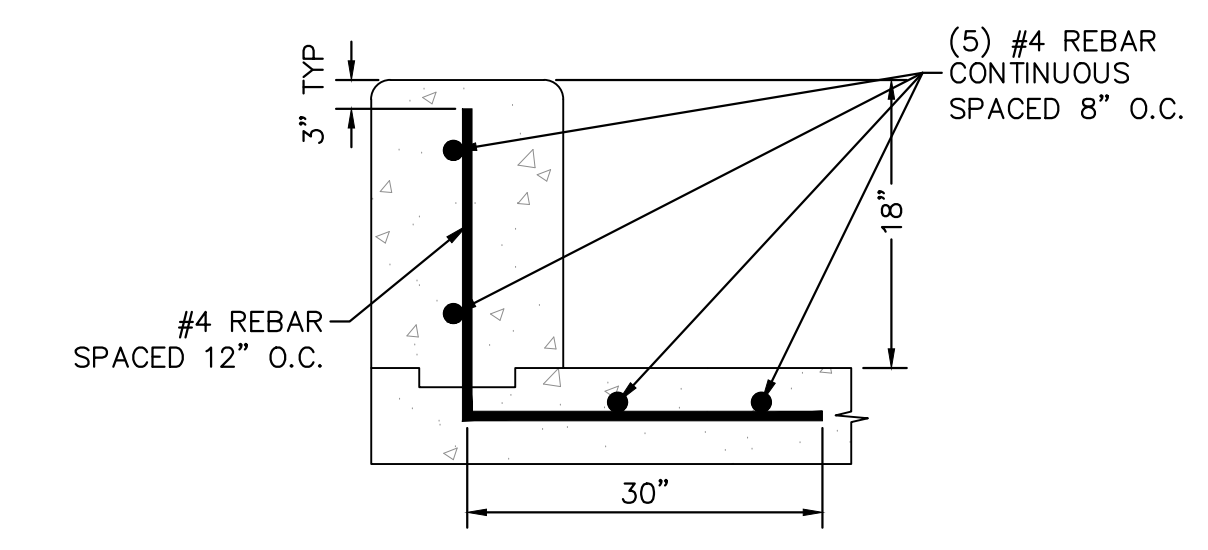
A **FOREBAY NOTCH DETAIL**  
N.T.S.



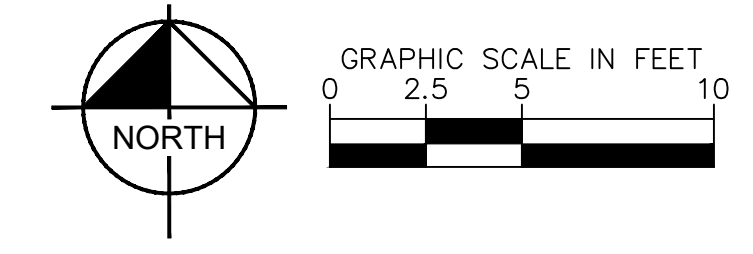
B **SECTION A-A FOREBAY WALL WITH REINFORCING**  
N.T.S.



C **FOREBAY DISSIPATER DETAIL**  
N.T.S.



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



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NO.	REVISION	BY	DATE	APPR.

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

WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
POND 4 DETAILS

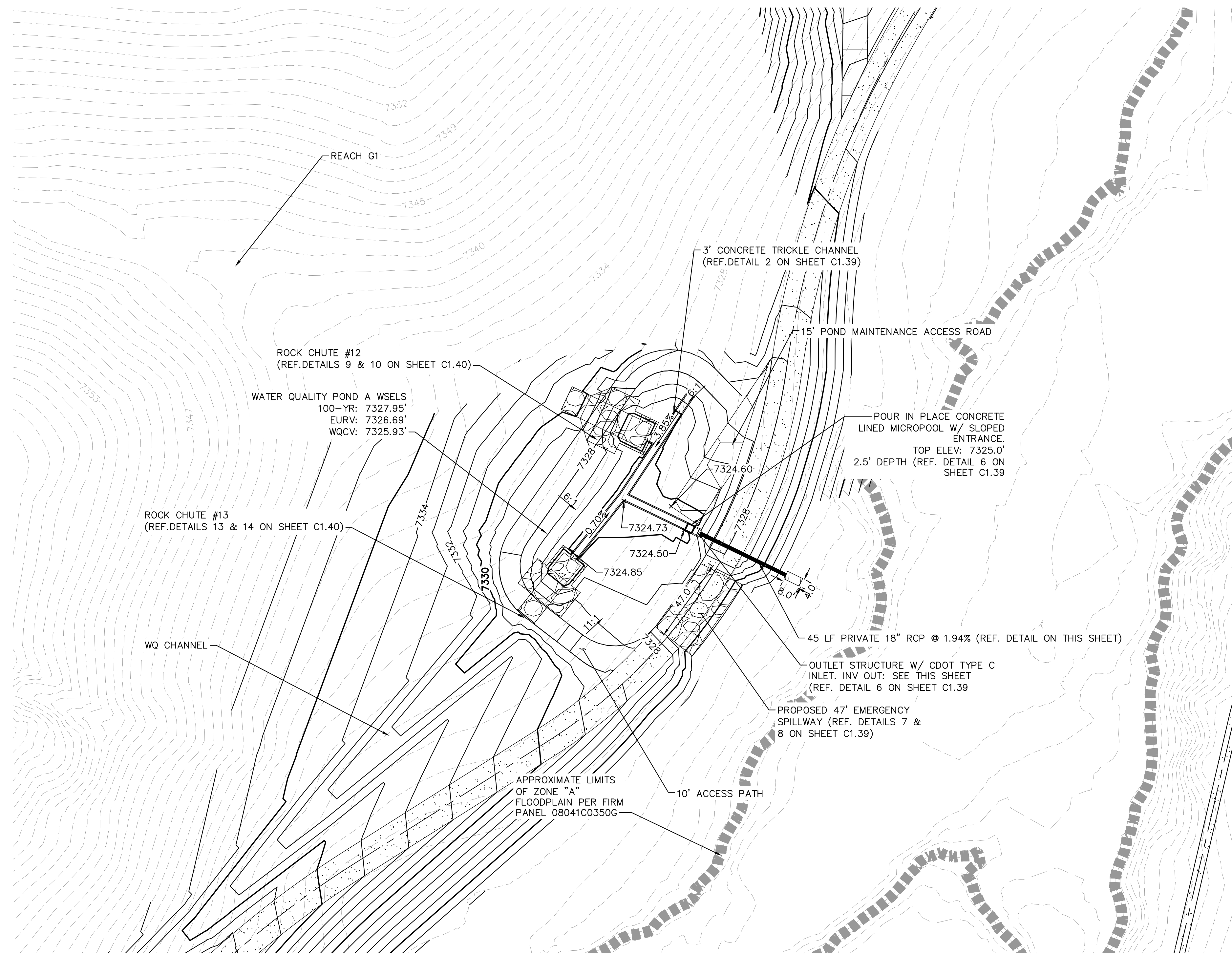
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NOT FOR  
CONSTRUCTION  
**Kimley»Horn**  
Kimley-Horn and Associates, Inc.

PROJECT NO.  
196106001  
SHEET  
**C1.37**

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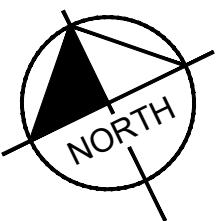
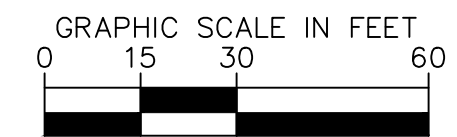
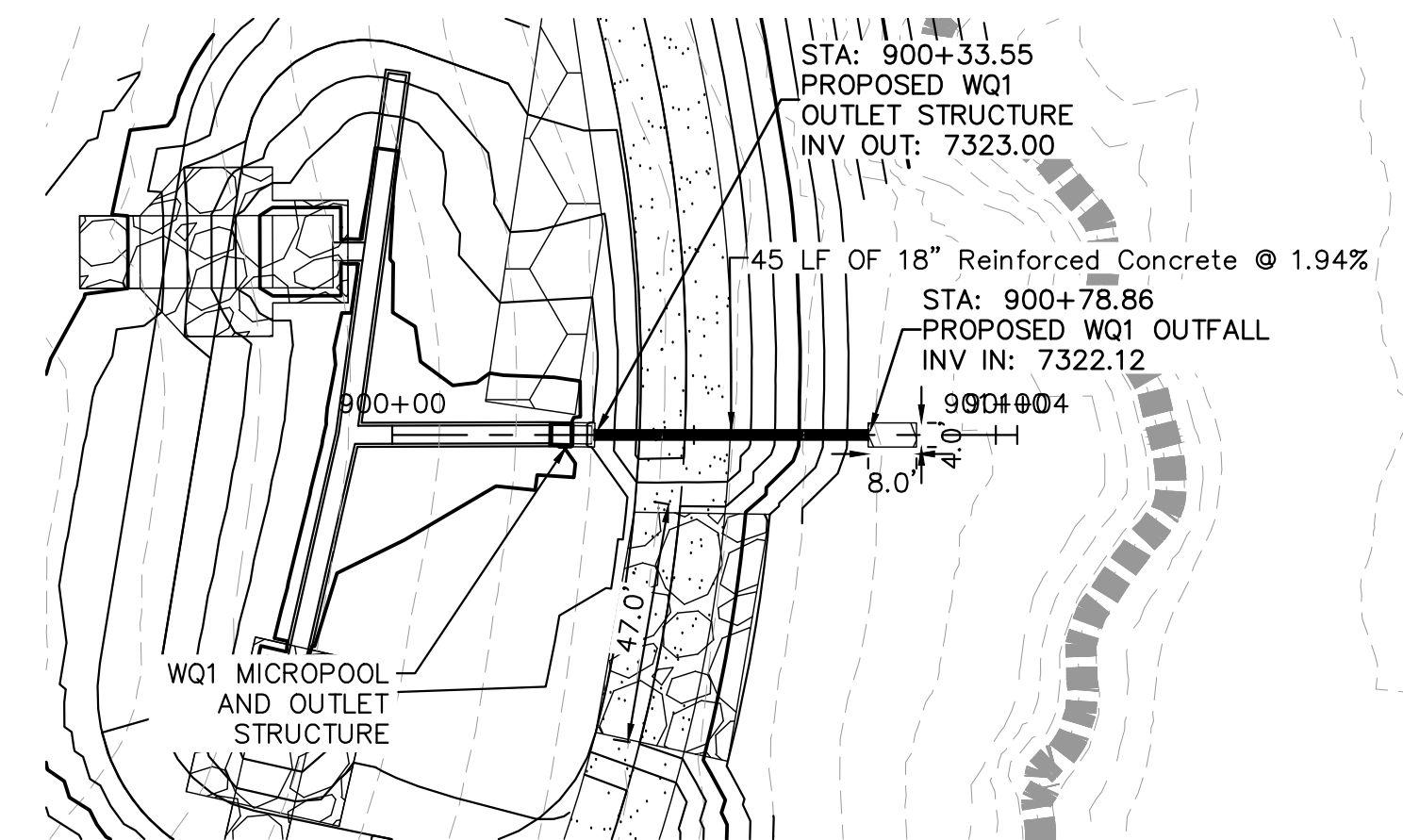


CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

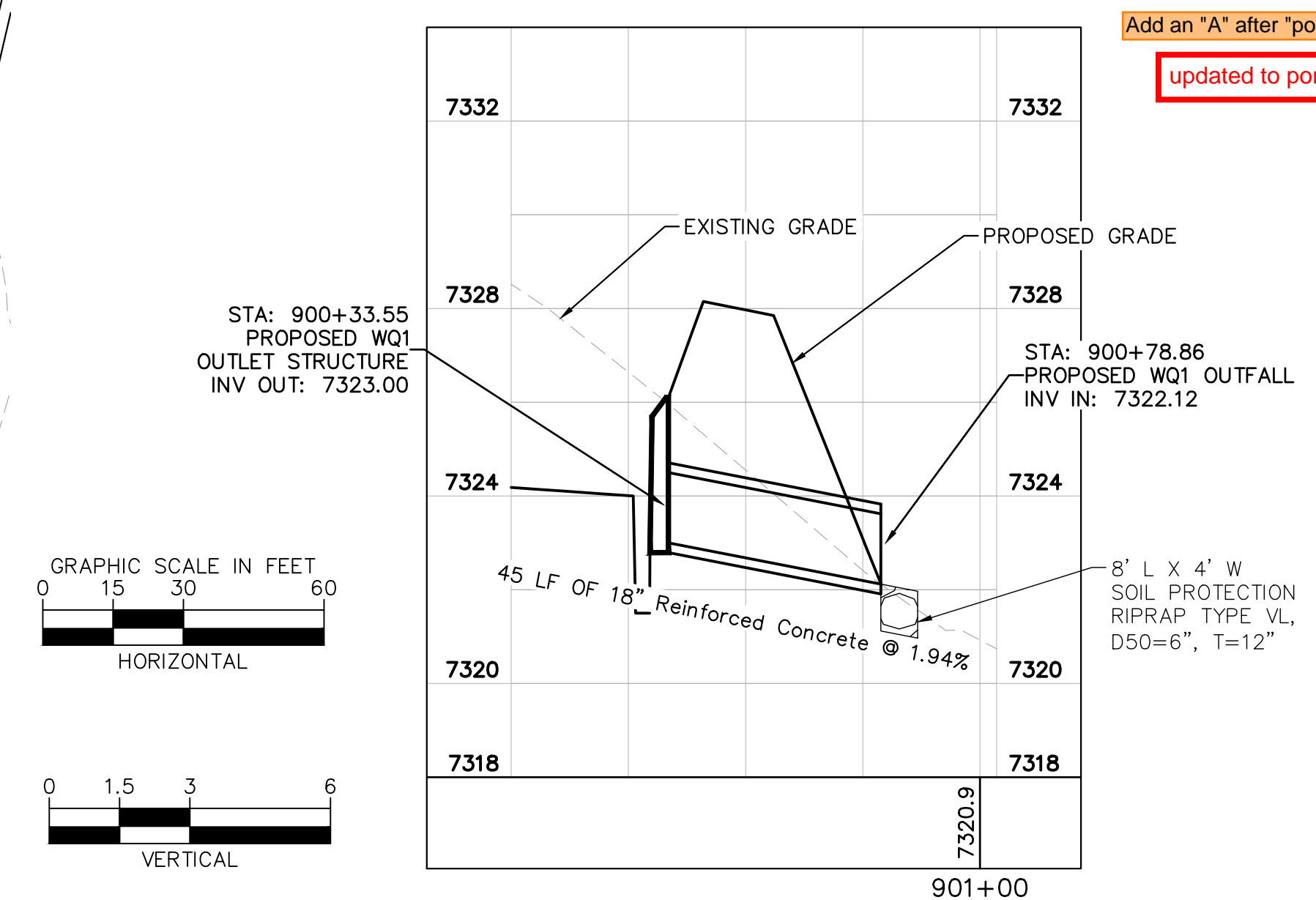


LEGEND

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



WQA POND OUTLET PIPE PLAN AND PROFILE



WINSOME FILING NO. 3  
EL PASO COUNTY, COLORADO  
CONSTRUCTION DOCUMENTS  
WQ POND OVERVIEW

PRELIMINARY  
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Kimley»Horn  
Kimley-Horn and Associates, Inc.

PROJECT NO.  
196106001

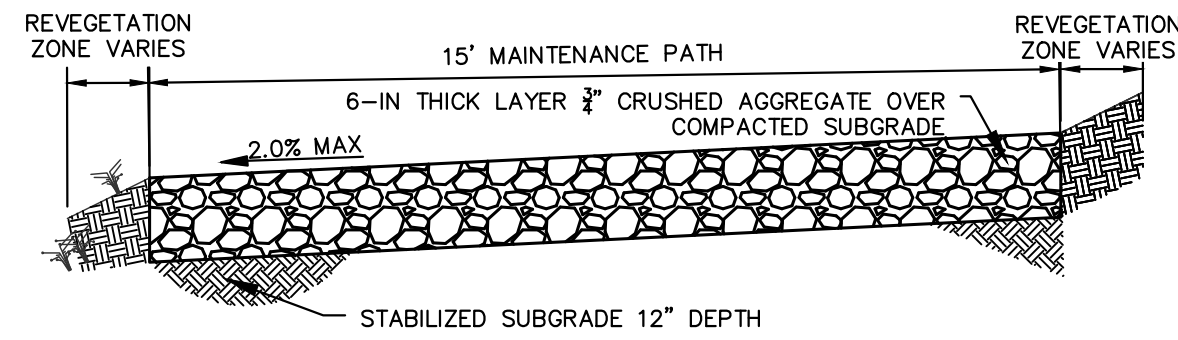
SHEET

C1.38

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

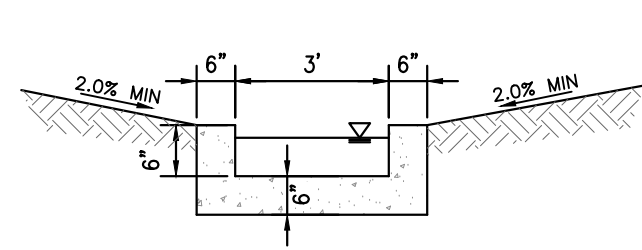
DESIGNED BY: KRK  
DRAWN BY: A.JL  
CHECKED BY: KRK  
DATE: 12/16/2021

NO.	REVISION	BY	DATE	APPR.



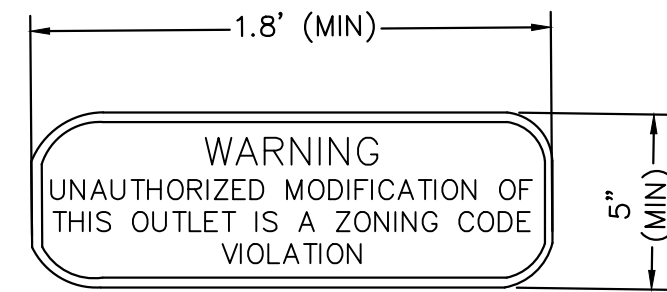
**1 MAINTENANCE ROAD**

N.T.S.  
**MAINTENANCE PATH NOTES**  
 1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.



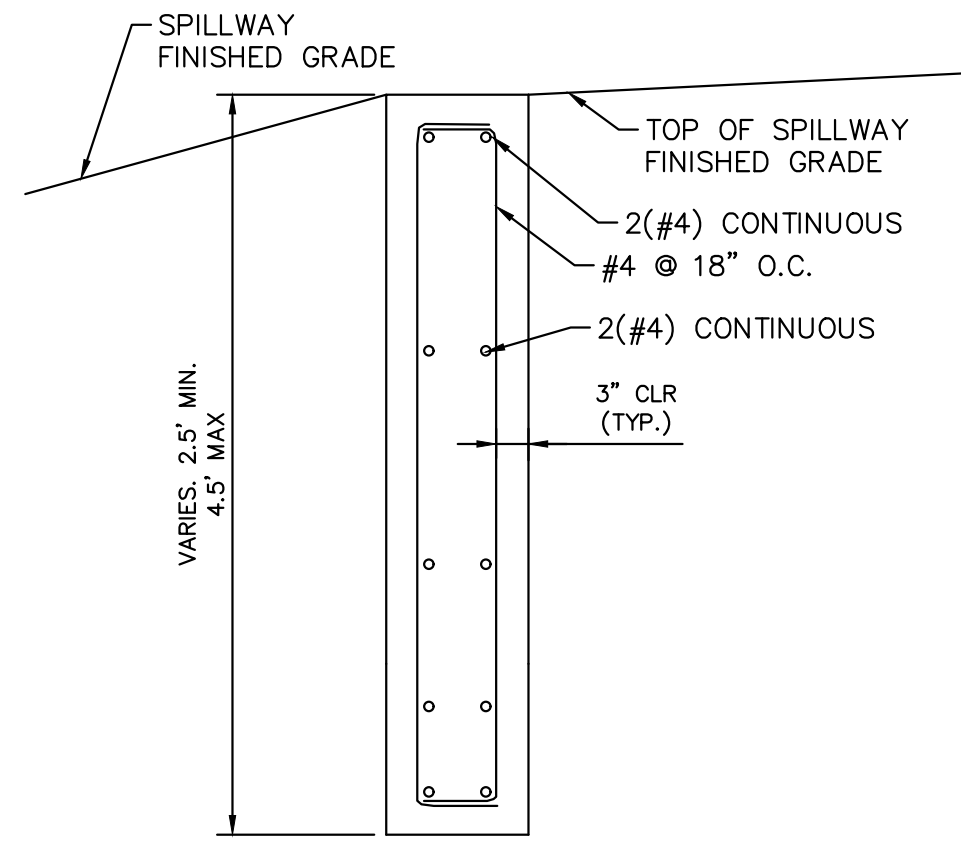
**2 CONCRETE TRICKLE CHANNEL**

N.T.S.



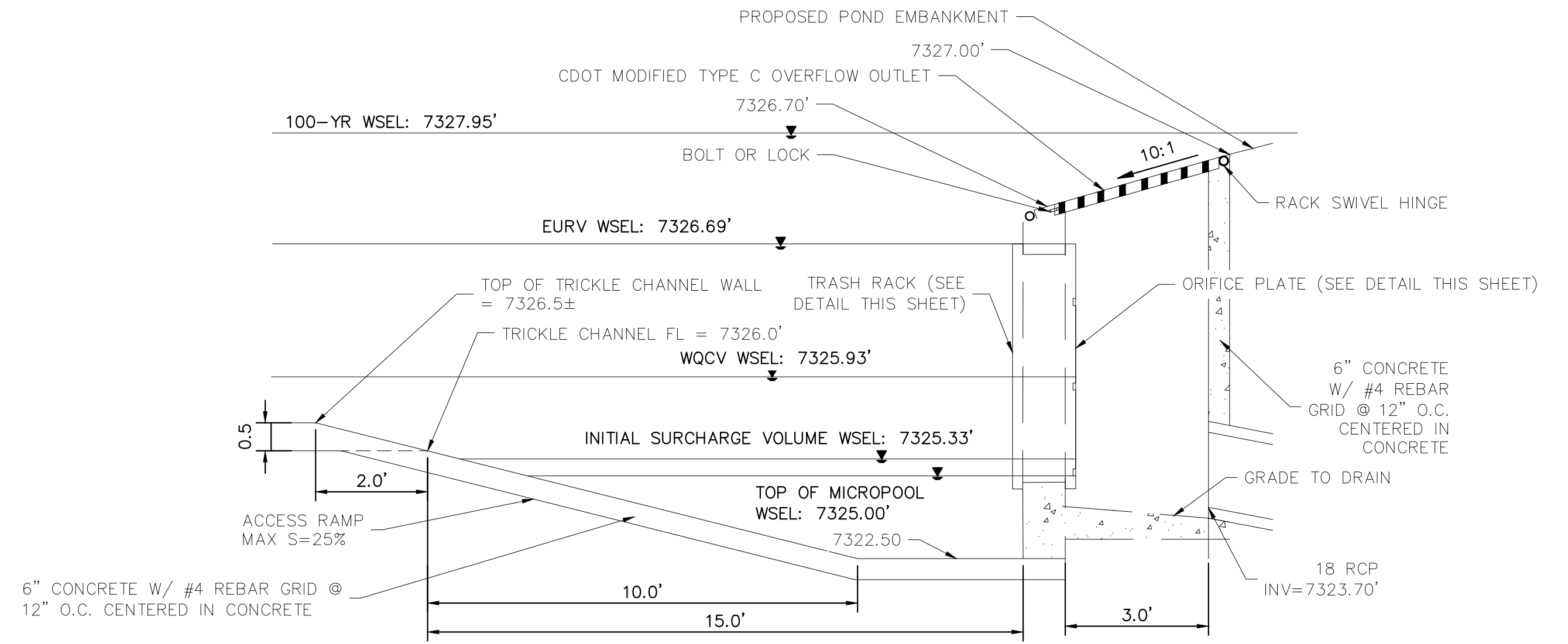
**3 OUTLET SIGNAGE**

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



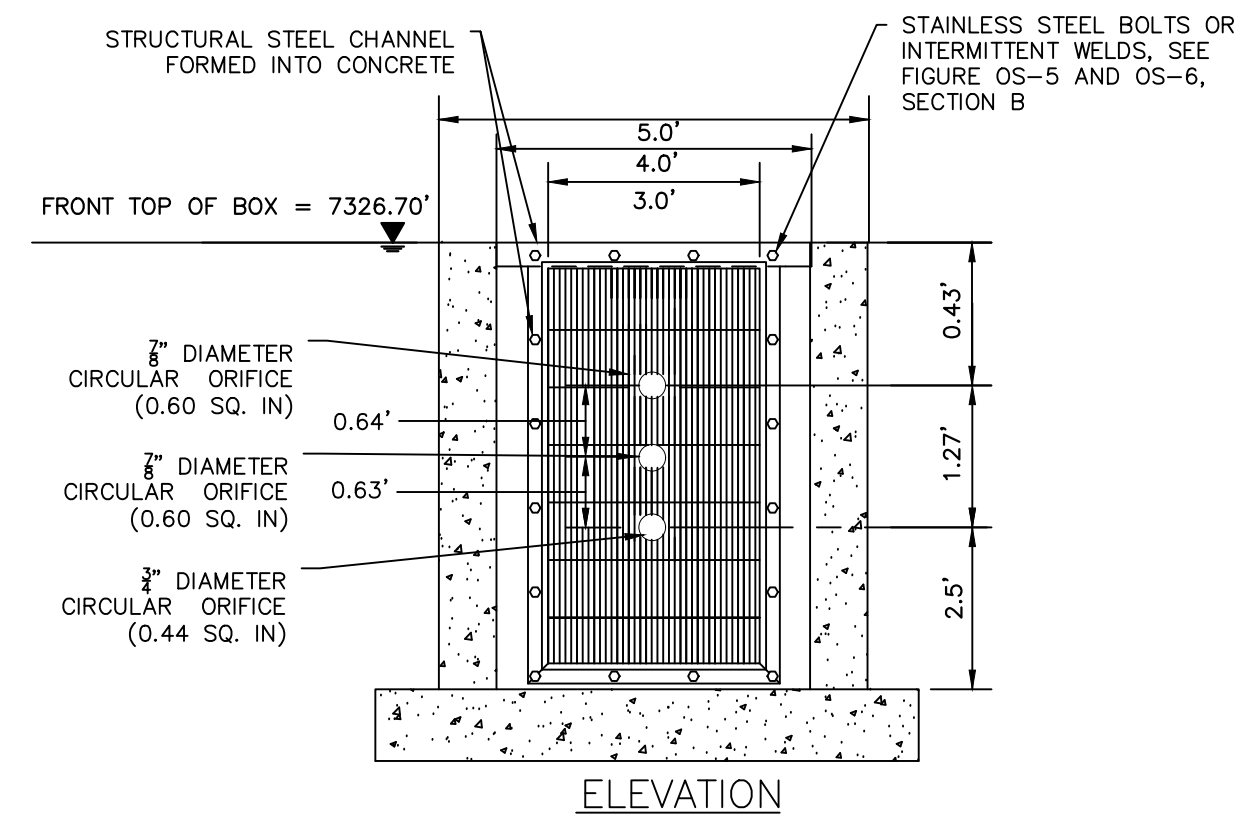
**5 SECTION CREST WALL DETAIL**

N.T.S.



**6 OUTLET STRUCTURE DETAIL**

N.T.S.



**4 ORIFICE PLATE AND TRASH RACK DETAIL**

N.T.S.  
**ORIFICE PLATE NOTES**

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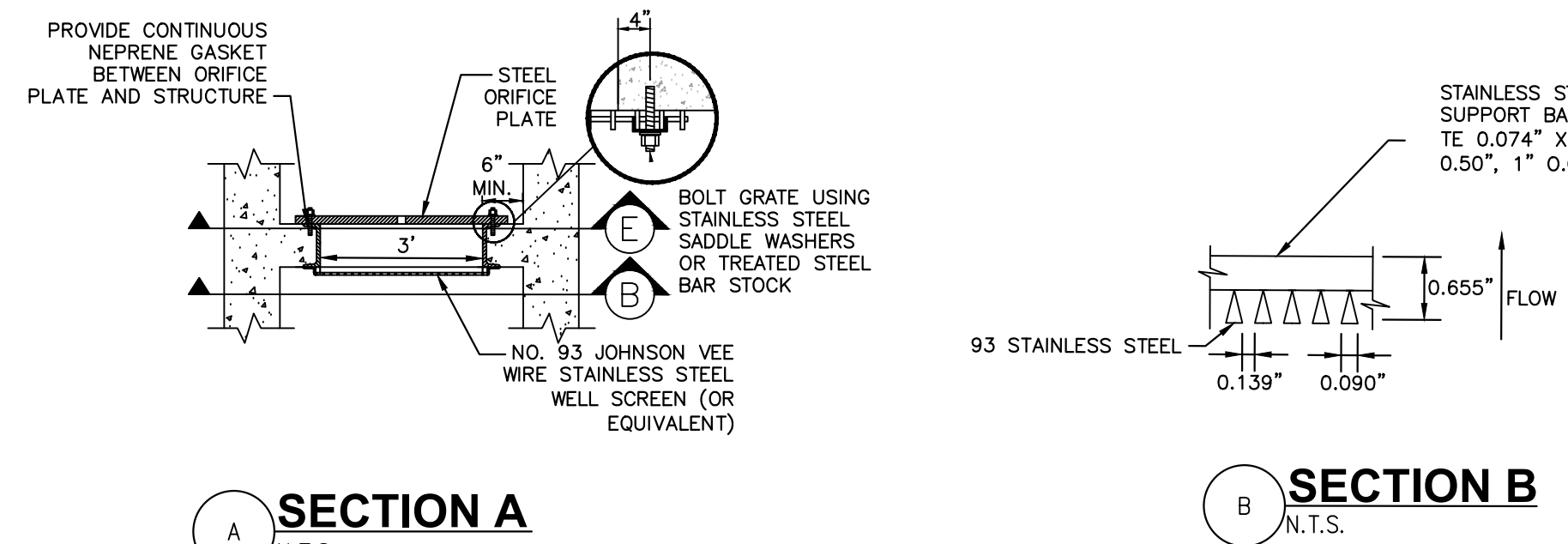
**RIPRAP NOTES:**

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

Table 506-2

Pay Item	Stone Size d50 <sup>1</sup> (Inches)	Percent of Material Smaller Than Typical Stone <sup>2</sup>	Typical Stone Dimensions <sup>3</sup> (Inches)	Typical Stone Weight <sup>4</sup> (Pounds)
Riprap	6	70-100	12	85
		50-70	9	35
		35-50	6	10
Riprap	9	70-100	15	160
		50-70	12	85
		35-50	9	35
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<sup>1</sup>d50 = nominal stone size  
<sup>2</sup>based on typical rock mass  
<sup>3</sup>equivalent spherical diameter  
<sup>4</sup>based on a specific gravity = 2.5

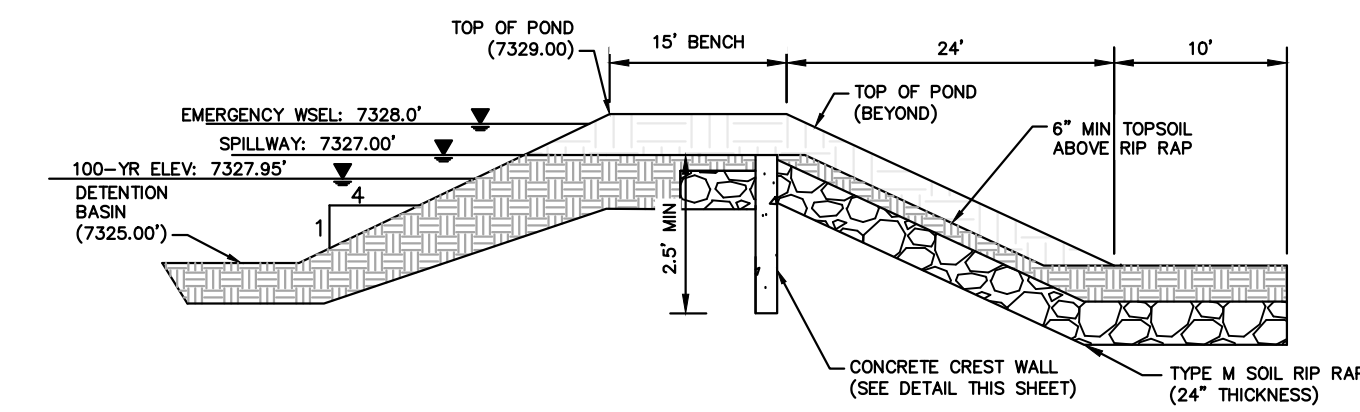


**A SECTION A**

N.T.S.

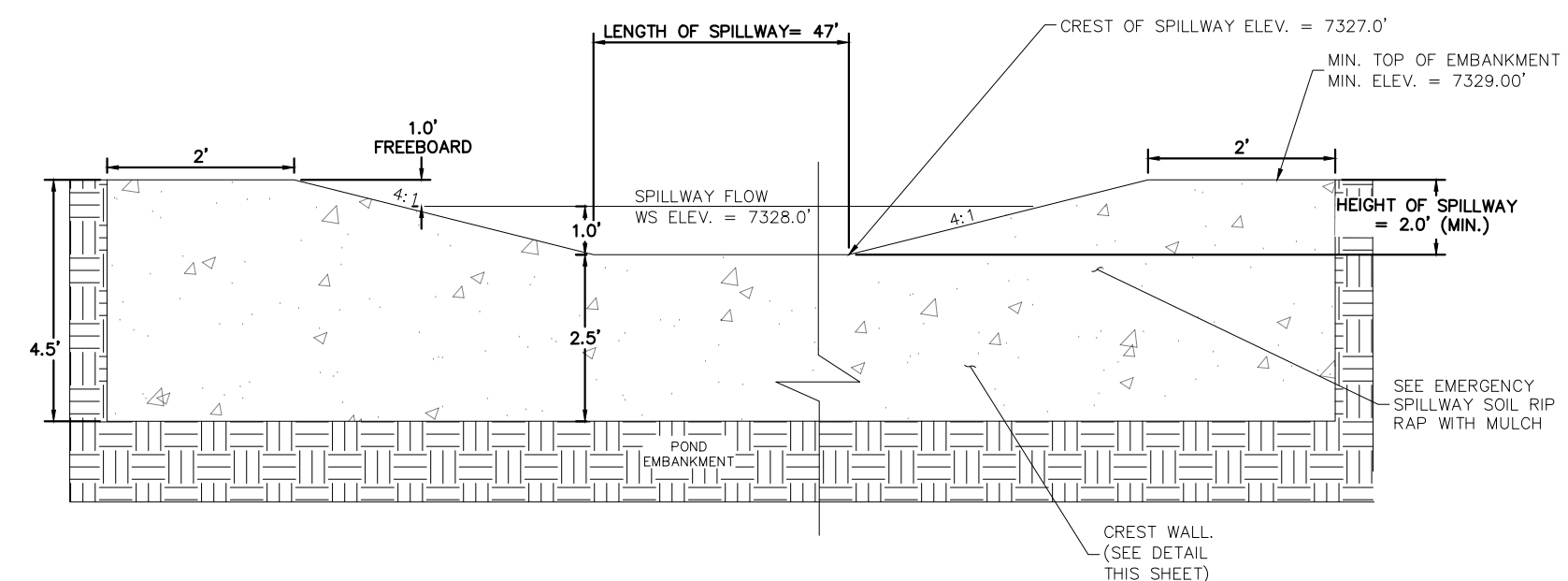
**B SECTION B**

N.T.S.



**7 EMERGENCY SPILLWAY DETAILS**

N.T.S.



**8 EMERGENCY SPILLWAY**

N.T.S.



