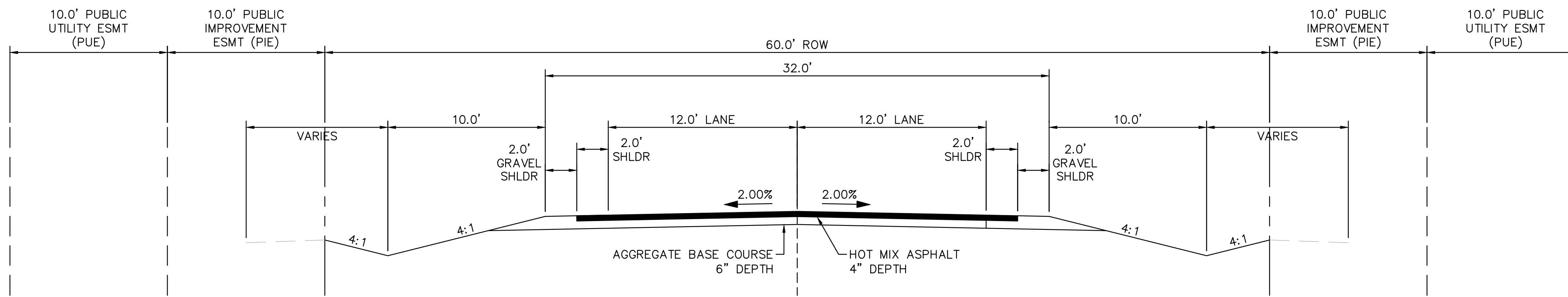


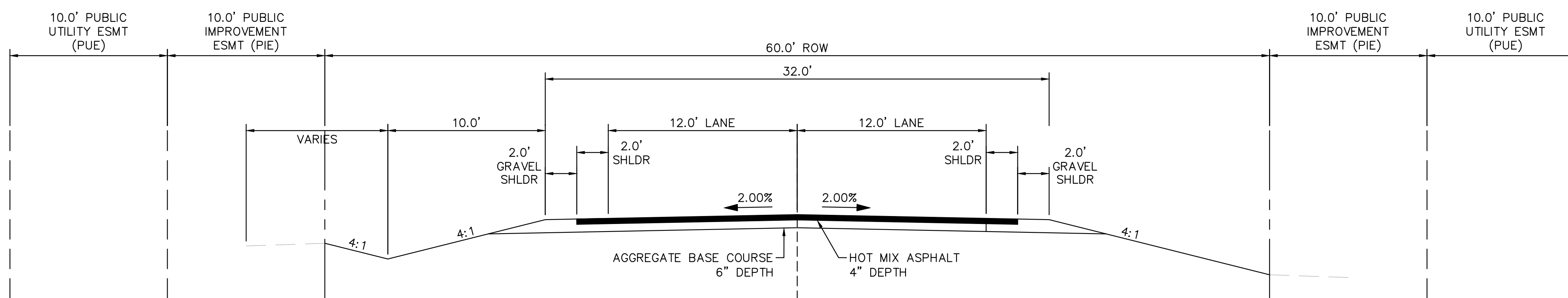
ON-SITE ROADWAY TYPICAL SECTIONS

NOTE

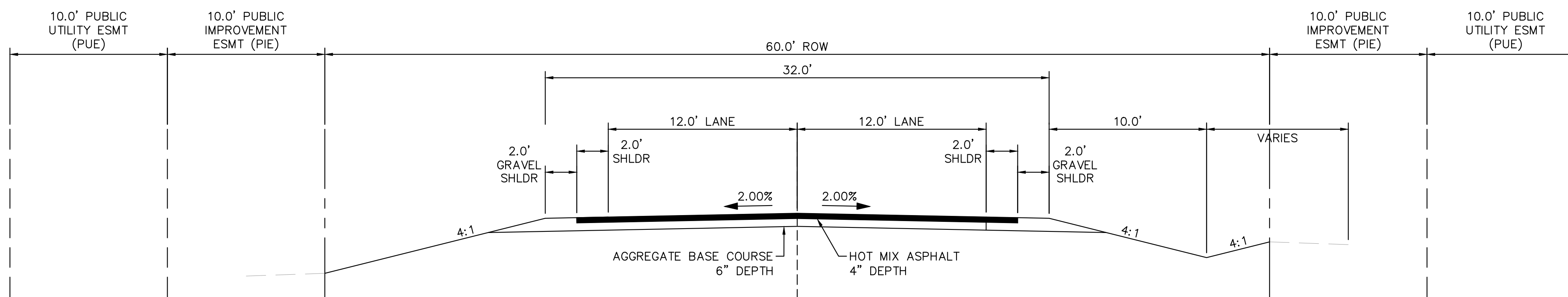
1. ROADWAY SECTION DIMENSIONS ARE PRELIMINARY AND ARE TO BE CONFIRMED WITH A PAVEMENT DESIGN REPORT SUBMITTED TO THE COUNTY.



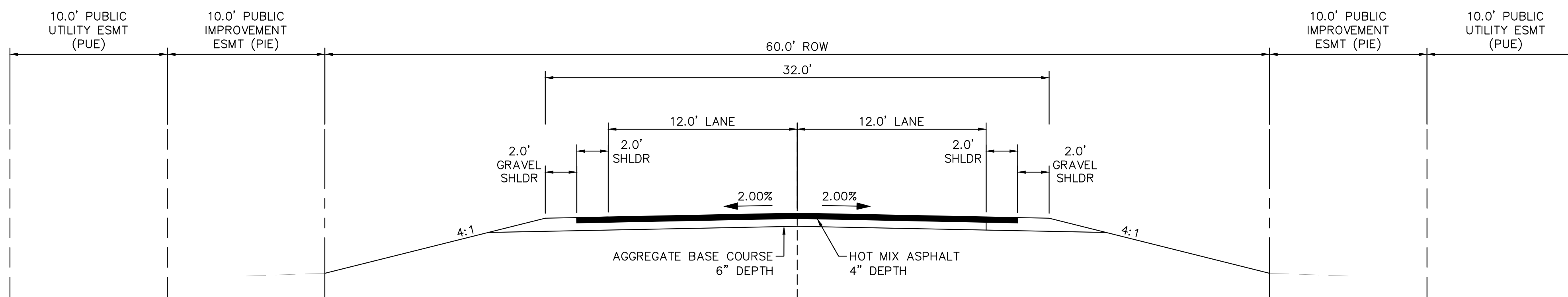
(A) RURAL LOCAL ROADWAY - ROADSIDE DITCH: LEFT AND RIGHT
SCALE: 1" = 5'



(B) RURAL LOCAL ROADWAY - ROADSIDE DITCH: LEFT
(C) SCALE: 1" = 5'



(C) RURAL LOCAL ROADWAY - ROADSIDE DITCH: RIGHT
SCALE: 1" = 5'



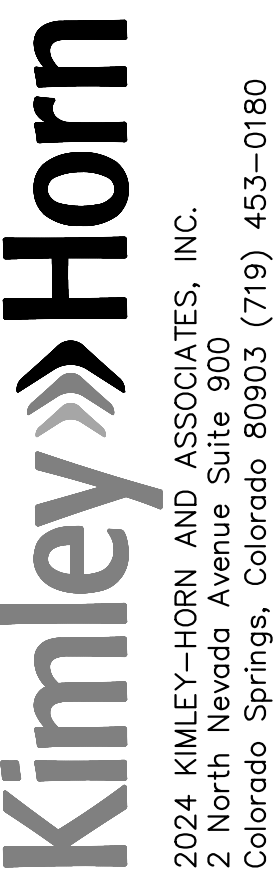
(D) RURAL LOCAL ROADWAY - NO ROADSIDE DITCH
SCALE: 1" = 5'

TYPICAL SECTION (A)	
ROADWAY	STATION
S. ARROYA LANE	8+67.00 - 12+00.00
S. ARROYA LANE	15+95.00 - 16+50.00
S. ARROYA LANE	19+63.50 - 24+38.00
FLAMING SUN DRIVE	26+88.00 - 30+73.00
FLAMING SUN DRIVE	33+27.00 - 37+76.00
FLAMING SUN DRIVE	43+15.00 - 44+00.00
ACEQUIA COURT	70+33.00 - 70+80.00
ACEQUIA COURT	72+21.50 - 75+44.00
ARROYA LANE	80+36.00 - 81+50.00
ARROYA LANE	83+00.00 - 88+46.00

TYPICAL SECTION (B)	
ROADWAY	STATION
FLAMING SUN DRIVE	39+85.00 - 43+15.00
ACEQUIA COURT	70+80.00 - 71+61.50
CHAMITA TRAIL	60+60.00 - 63+78.50

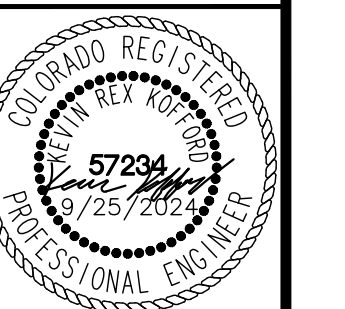
TYPICAL SECTION (C)	
ROADWAY	STATION
S. ARROYA LANE	16+50.00 - 18+81.00
FLAMING SUN DRIVE	24+40.00 - 26+88.00
ACEQUIA COURT	71+61.50 - 72+22.00

TYPICAL SECTION (D)	
ROADWAY	STATION
S. ARROYA LANE	0+00.00 - 8+67.00
S. ARROYA LANE	12+00.00 - 15+00.00
S. ARROYA LANE	18+81.00 - 19+63.50
FLAMING SUN DRIVE	30+73.00 - 33+27.00
FLAMING SUN DRIVE	37+76.00 - 39+85.00
PRESA LANE	54+00.00 - 50+13.00
ARROYA LANE	81+50.00 - 83+00.00



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DRAWN BY: MJK
CHECKED BY: KRK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
TYPICAL SECTIONS



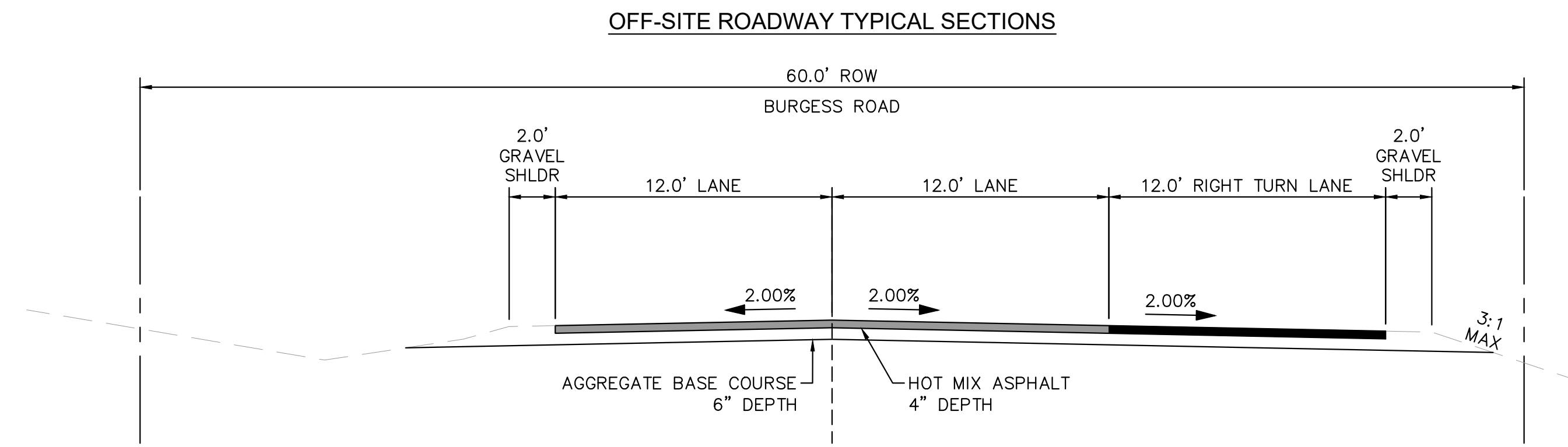
PROJECT NO.
196106001

SHEET
C1.1

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NOTE

1. ROADWAY SECTION DIMENSIONS ARE PRELIMINARY AND ARE TO BE CONFIRMED WITH A PAVEMENT DESIGN REPORT SUBMITTED TO THE COUNTY.

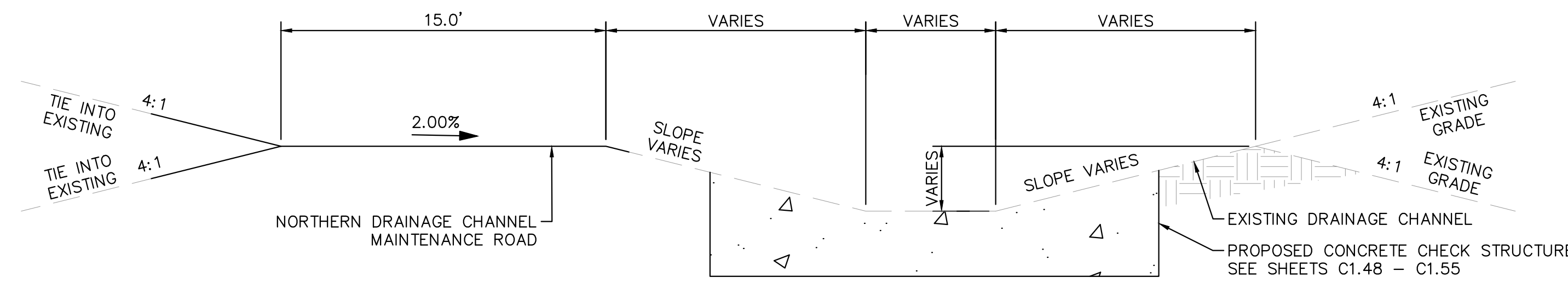


(F) PROPOSED BURGESS ROAD R-H TURN LANE
SCALE: 1" = 5'

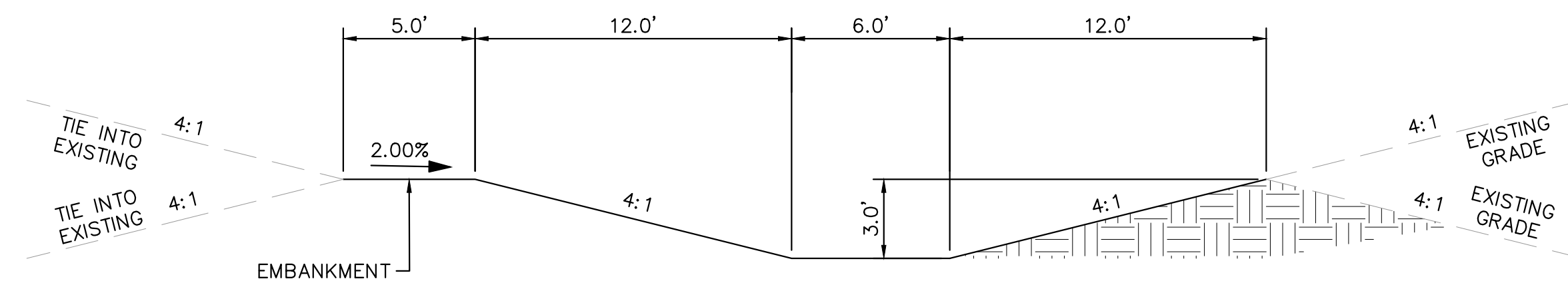
STA 4+10.50 - 6+22.00

	BURGESS ROAD	RAYGOR ROAD
ROADWAY CLASSIFICATION	RURAL MINOR ARTERIAL	RURAL LOCAL (LOW VOLUME)
DESIGN SPEED	50 MPH	30 MPH
POSTED SPEED	45 MPH	30 MPH
GRADE (MIN./MAX.)	1.0%/6.0%	1.0%/8.0%
INTERSECTION GRADES (MIN./MAX.)	1.0%/4.0%	1.0%/4.0%
MINIMUM S.S.D. HORIZONTAL	570'	200'
MINIMUM S.S.D. VERTICAL (CREST CURVE)/DESIGN K	570'/151	200'/19
MINIMUM S.S.D. VERTICAL (SAG CURVE)/DESIGN K	570'/136	200'/37
REDIRECT TAPERS	45:1	15:1

DRAINAGE CHANNEL CROSS SECTIONS



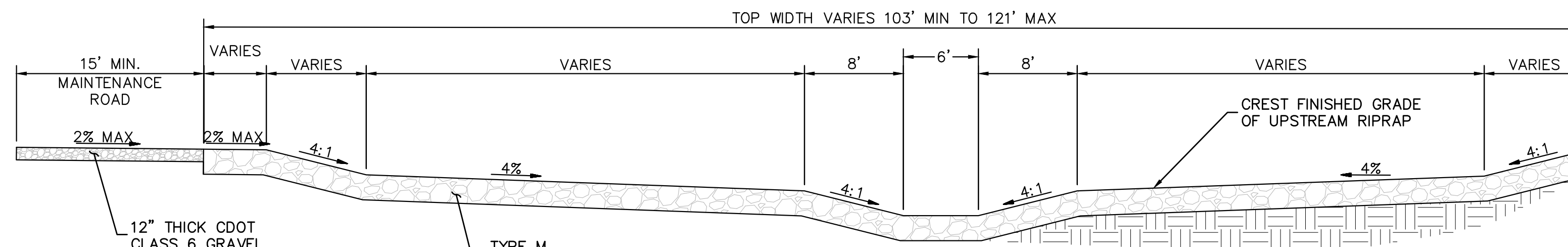
(G) NORTH CHANNEL SECTION - SEE SHEETS C1.48 - C1.52
SCALE: 1" = 5'



(H) WQ POND 1 DRAINAGE CHANNEL SECTION - SEE SHEETS C1.7 & C1.35
SCALE: 1" = 5'

NOTE

1. MAINTENANCE ACCESS ROAD PROVIDED PER EPC ECM 3.3.3.K.



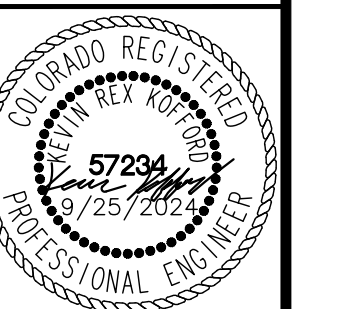
(I) SOUTH CHANNEL SECTION - SEE SHEETS C1.43 - C1.45
SCALE: 1" = 8'

NO.	REVISION	BY	DATE	APPR

Kimley»Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
TYPICAL SECTIONS



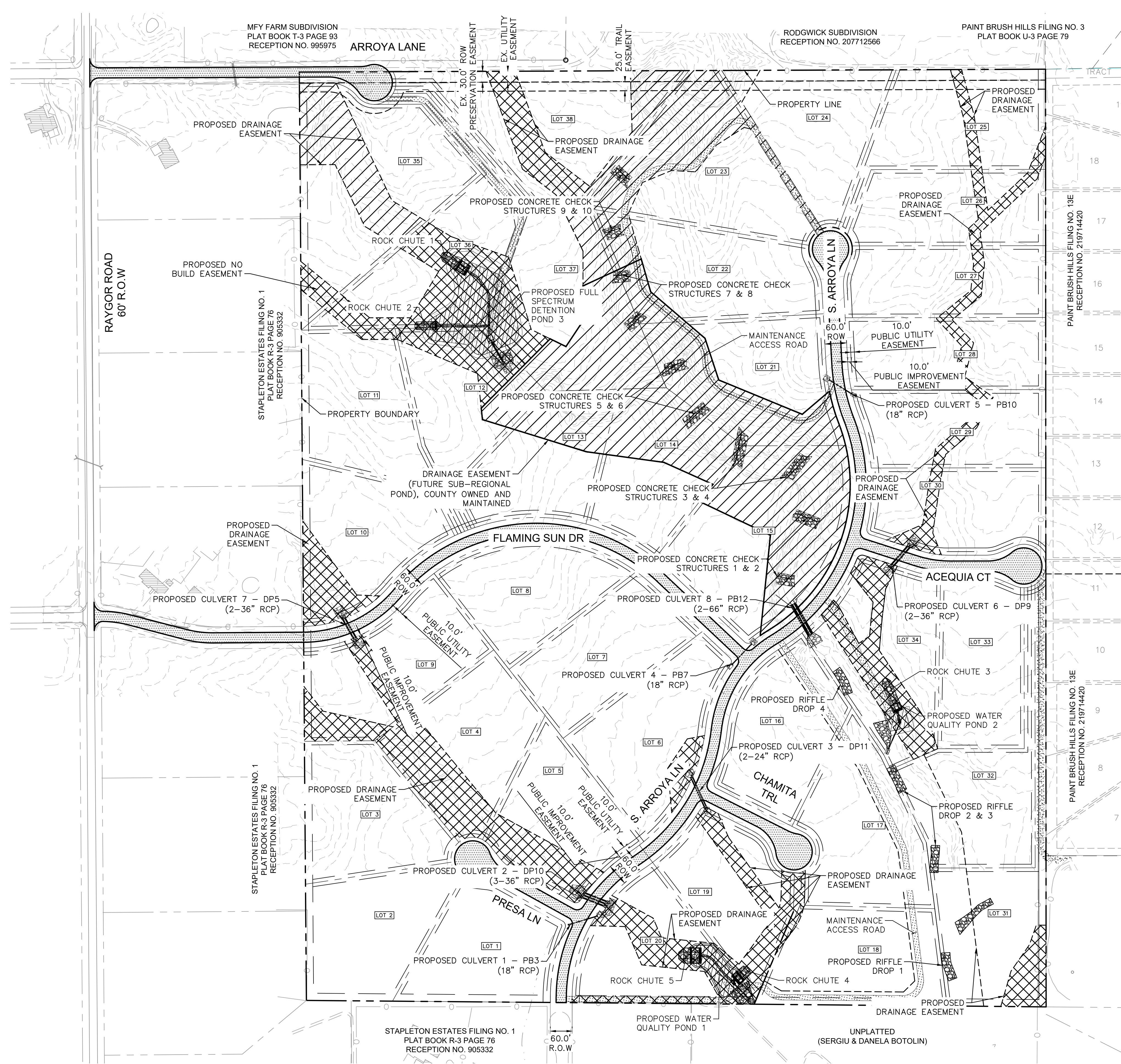
PROJECT NO.
196106001

SHEET
C1.2

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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

- PROPERTY/LOT LINE
- ROW LINE
- LOT #
- PROPOSED DRAINAGE EASEMENT
- PROPOSED ROAD (ASPHALT PAVEMENT)
- PROPOSED MAINTENANCE ROAD
- PROPOSED POND

NORTH

GRAPHIC SCALE IN FEET
0 75 150 300

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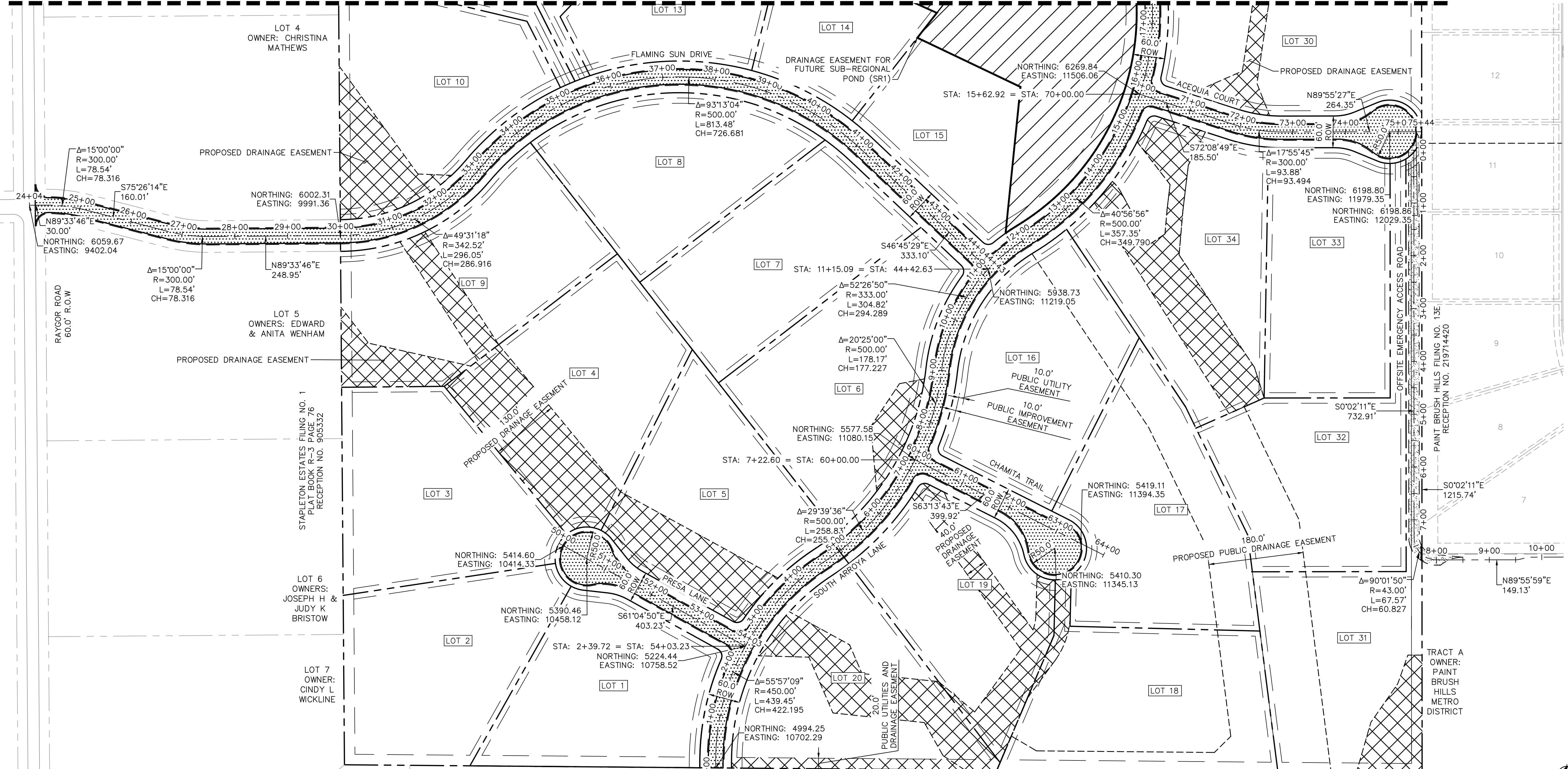
EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
OVERALL SITE PLAN

COLORADO REGISTERED PROFESSIONAL ENGINEER
57234
12/25/2022

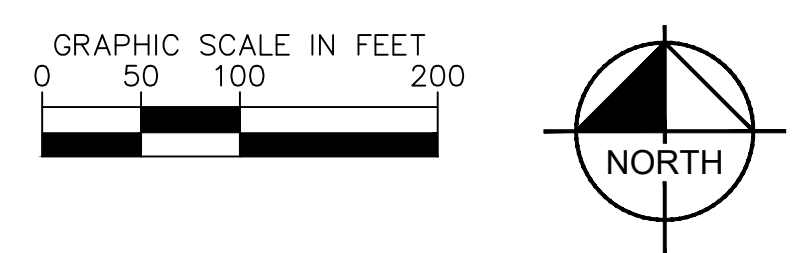
PROJECT NO. 196106001
SHEET
C1.3

PCD FILE #: SF-22-42

MATCHLINE SEE SHEET C1.4 FOR CONTINUATION



- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - LOT #
 - METROPOLITAN DISTRICT DRAINAGE AND ACCESS EASEMENT
 - PROPOSED DRAINAGE EASEMENT (MAINTAINED BY METRO DISTRICT)
 - STORMWATER FACILITY MAINTENANCE AGREEMENT AND EASEMENT RECEPTION NO. _____

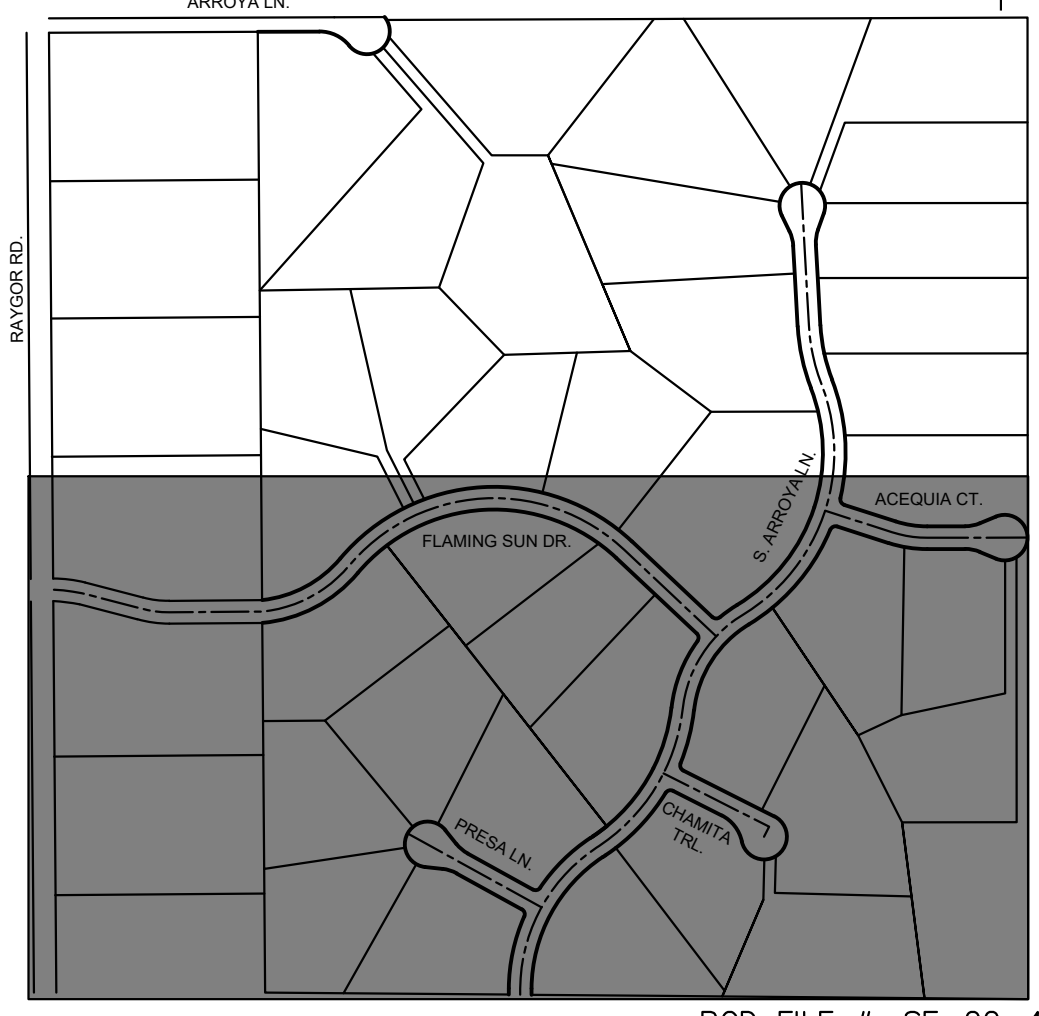


BENCHMARK

CONTROL POINTS AS SHOWN HEREON. ELEVATIONS ARE BASED ON CITY OF COLORADO SPRINGS MONUMENT F-65. PANEL POINTS 50 FOUND AT THE NW CORNER OF RAYGOR ROAD AND ARROYA LANE (EL=7281.39), AND 51 FOUND AT THE NE CORNER OF RAYGOR ROAD AND FLAMING SUN DRIVE (EL=7251.58). (DATUM: NGVD 29).

BASIS OF BEARINGS

ALL BEARINGS USED HEREIN ARE BASED ON AN ASSUMED BEARING S00°02'11"E (S00°02'11"E PER THE RECORDED DEED), A DISTANCE OF 2587.22 FEET (2587.32 FEET OF RECORD) BETWEEN A 2-1/2" ALUMINUM CAP STAMPED "PLS 4842" AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER CORNER OF SECTION 26 AND A 2" ALUMINUM CAP STAMPED "PLS 25968" AT THE CENTER ONE-QUARTER OF SAID SECTION 26.

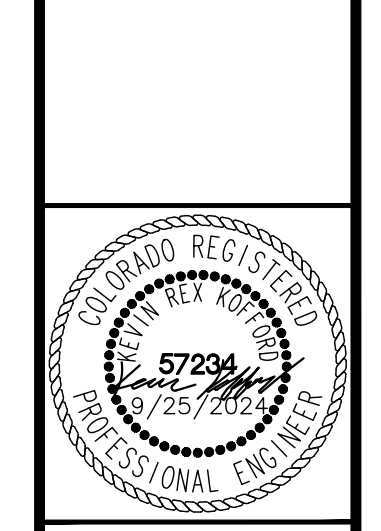


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 2 North Nevada Avenue Suite 900
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EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
HORIZONTAL CONTROL PLAN

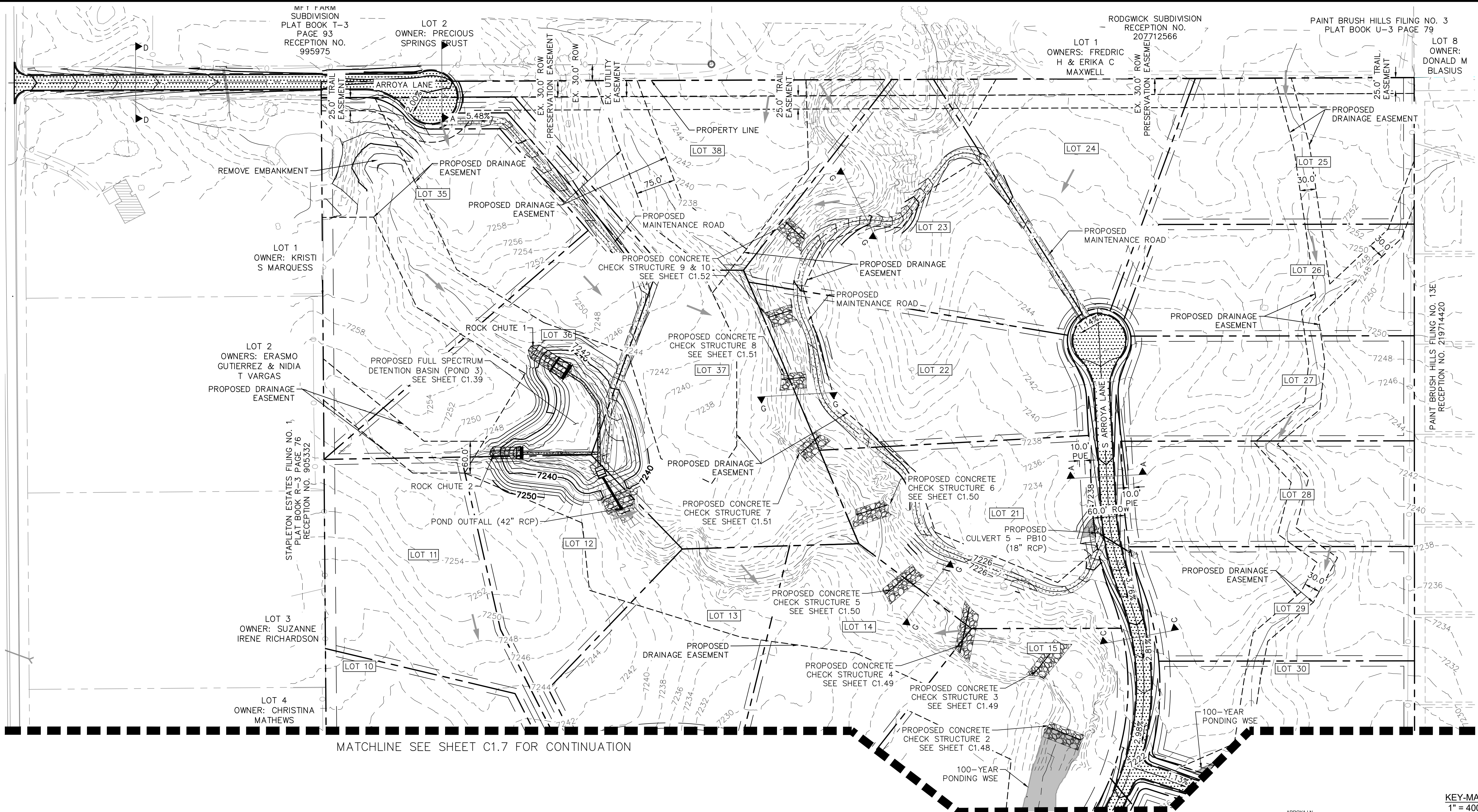


PROJECT NO. 196106001
 SHEET **C1.5**

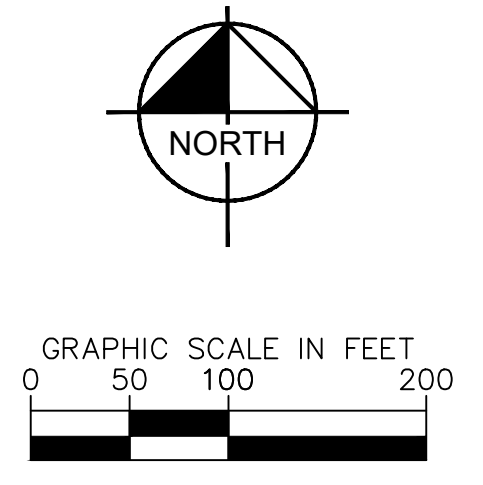
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CALL UTILITY NOTIFICATION CENTER OF COLORADO
 1-800-922-1987
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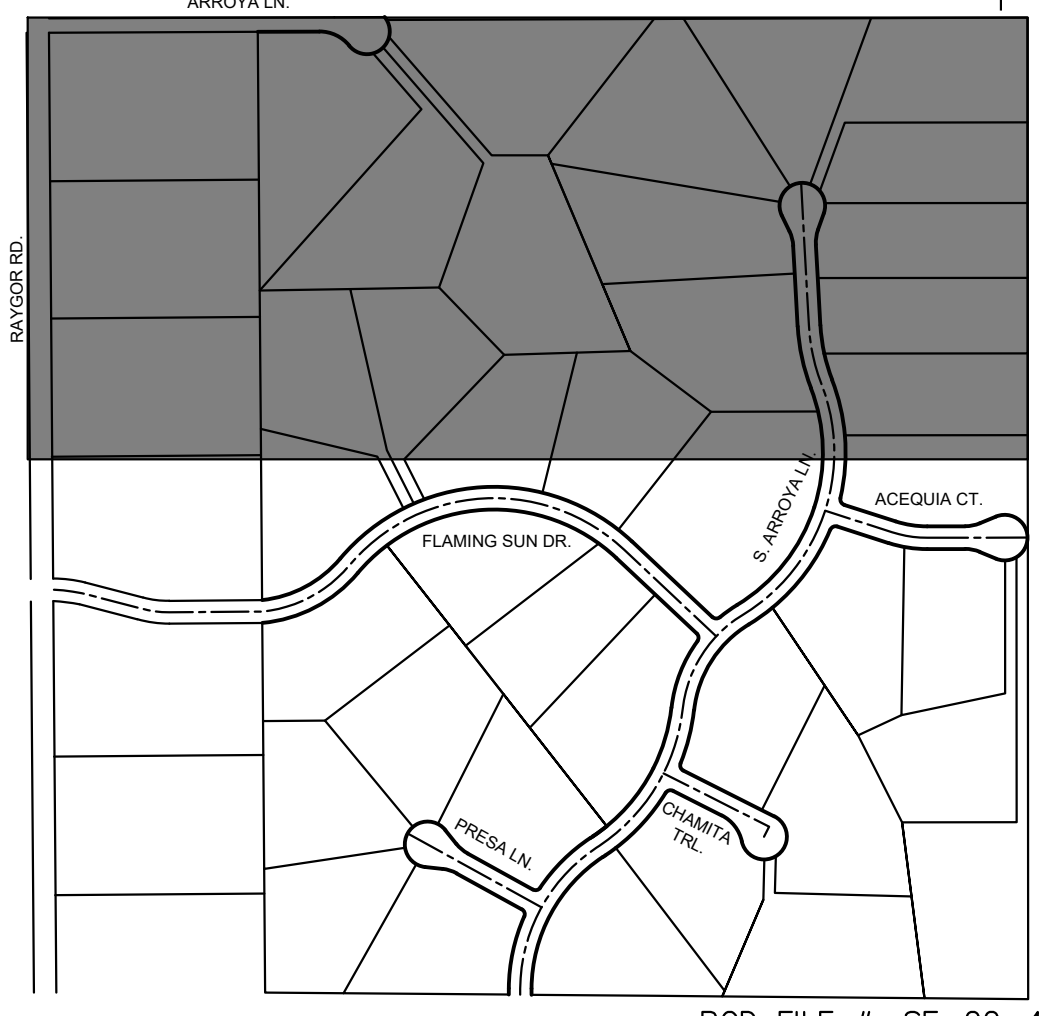
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MATCHLINE SEE SHEET C1.7 FOR CONTINUATION



- | | |
|------------------------------------|--------------------------------------|
| LEGEND | LEGEND |
| --- PROPERTY/LOT LINE | ---7XXX--- EXISTING MAJOR CONTOUR |
| --- ROW LINE | ---7XXX--- EXISTING MINOR CONTOUR |
| --- UTILITY EASEMENT LINE | ---7XXX--- PROPOSED MAJOR CONTOUR |
| LOT # | ---7XXX--- PROPOSED MINOR CONTOUR |
| --- PROPOSED DRAINAGE EASEMENT | ---7XXX--- PROPOSED ASPHALT PAVEMENT |
| --- CROSS SECTION (SEE SHEET C1.1) | ---7XXX--- PROPOSED MAINTENANCE ROAD |
| --- PROPOSED CULVERT | --- FLOW ARROW |



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

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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
GRADING PLAN

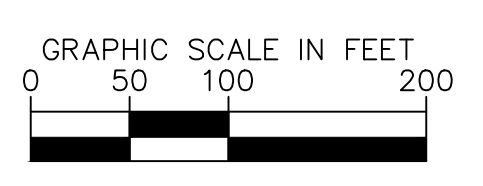
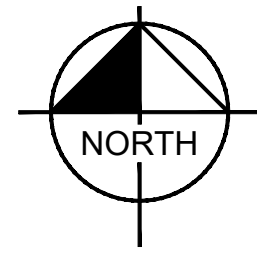
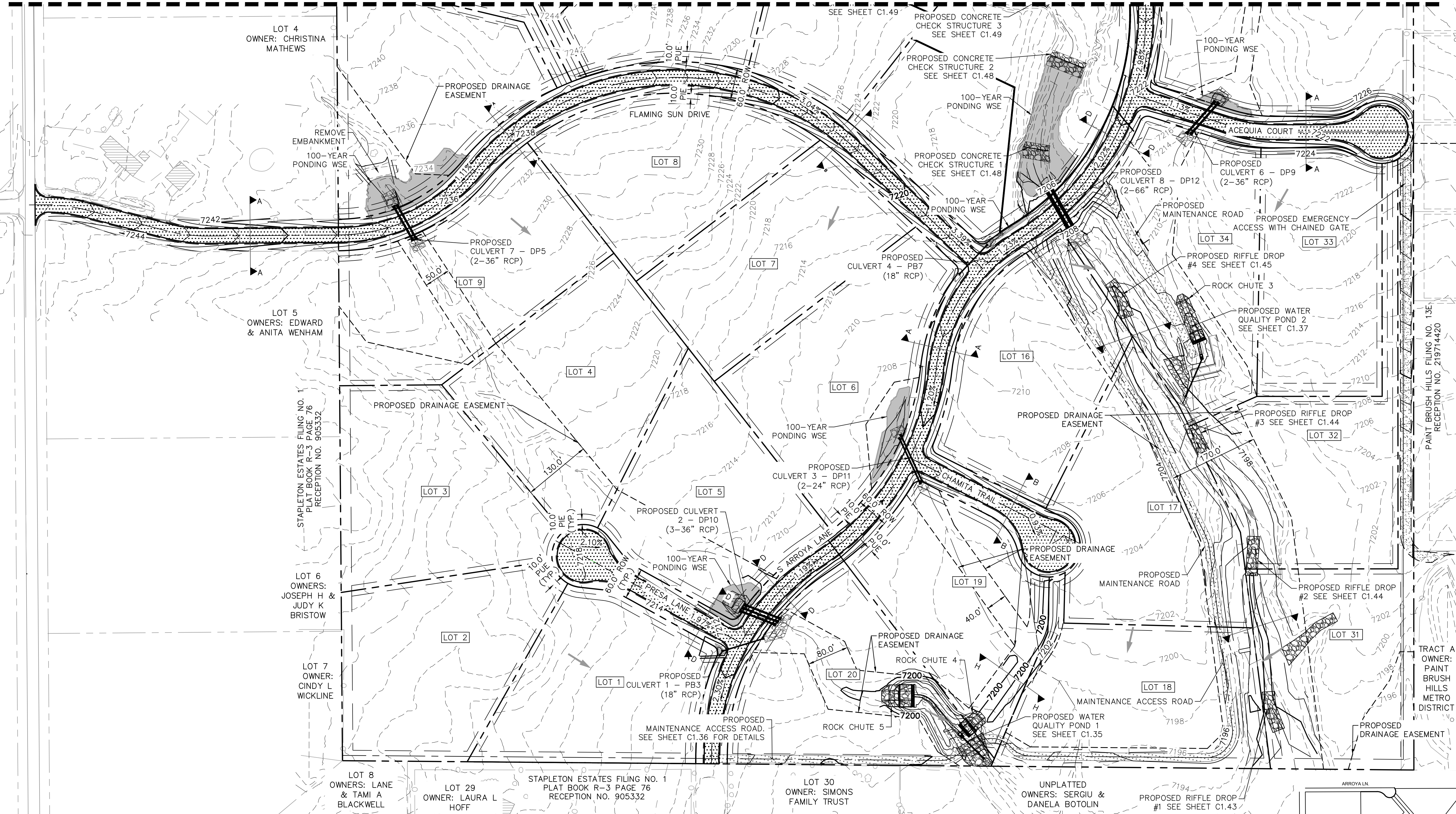


PROJECT NO. 196106001
SHEET

C1.6

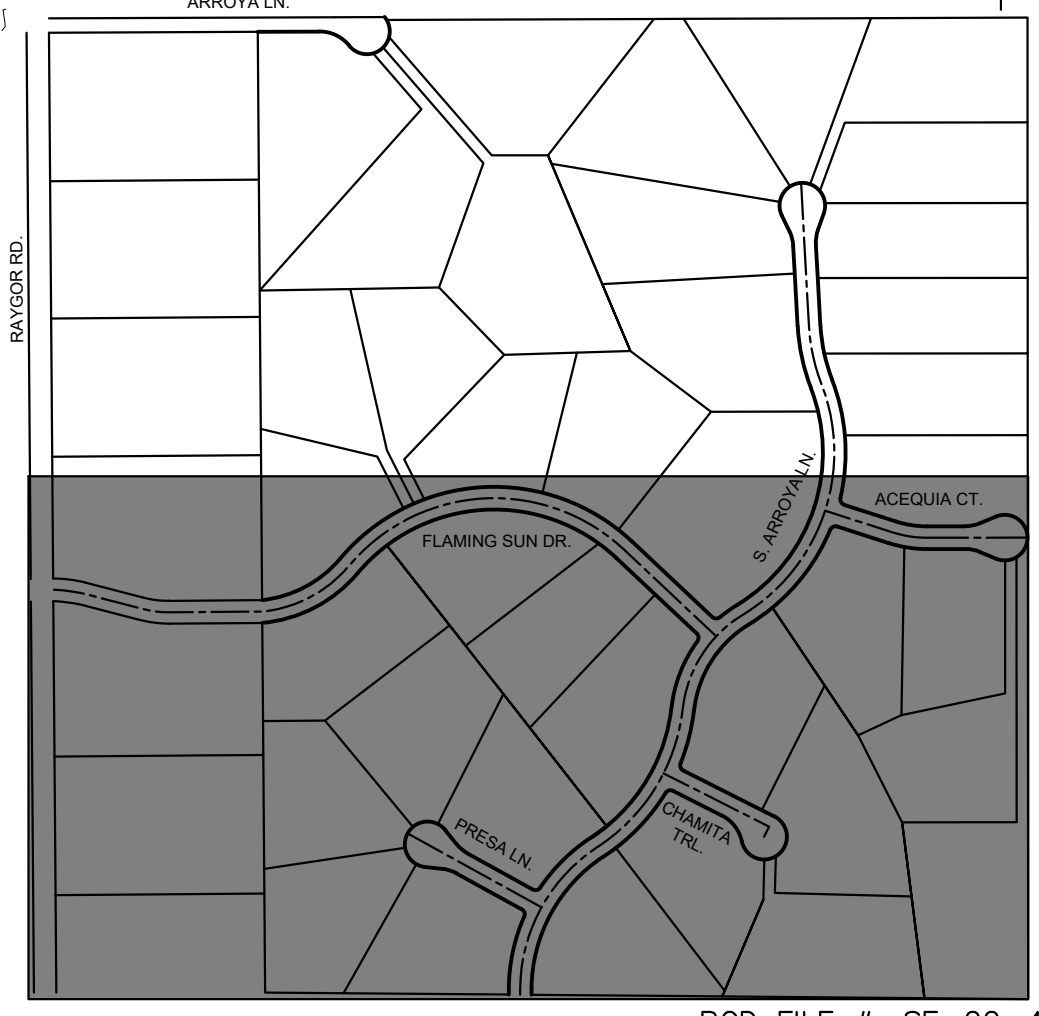
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MATCHLINE SEE SHEET C1.6 FOR CONTINUATION



LEGEND

- PROPERTY/LOT LINE
- ROW LINE
- UTILITY EASEMENT LINE
- LOT #
- PROPOSED DRAINAGE EASEMENT
- CROSS SECTION (SEE SHEET C1.1)
- PROPOSED CULVERT
- 7XXX--- EXISTING MAJOR CONTOUR
- 7XXX--- EXISTING MINOR CONTOUR
- 7XXX--- PROPOSED MAJOR CONTOUR
- 7XXX--- PROPOSED MINOR CONTOUR
- PROPOSED ASPHALT PAVEMENT
- PROPOSED MAINTENANCE ROAD
- FLOW ARROW



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GRADING PLAN



PROJECT NO.
196106001

SHEET

C1.7

PCD FILE #: SF-22-42

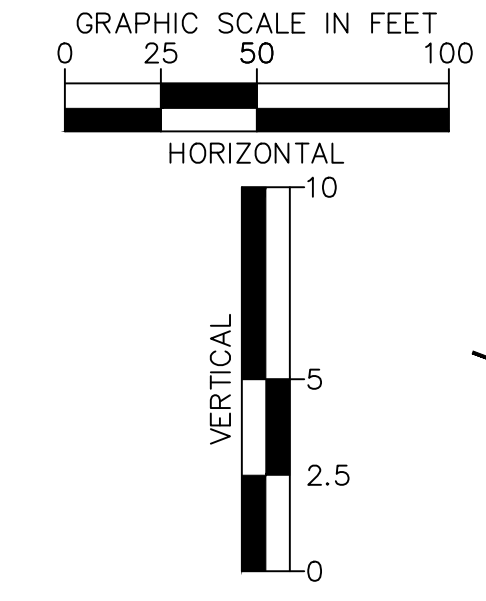
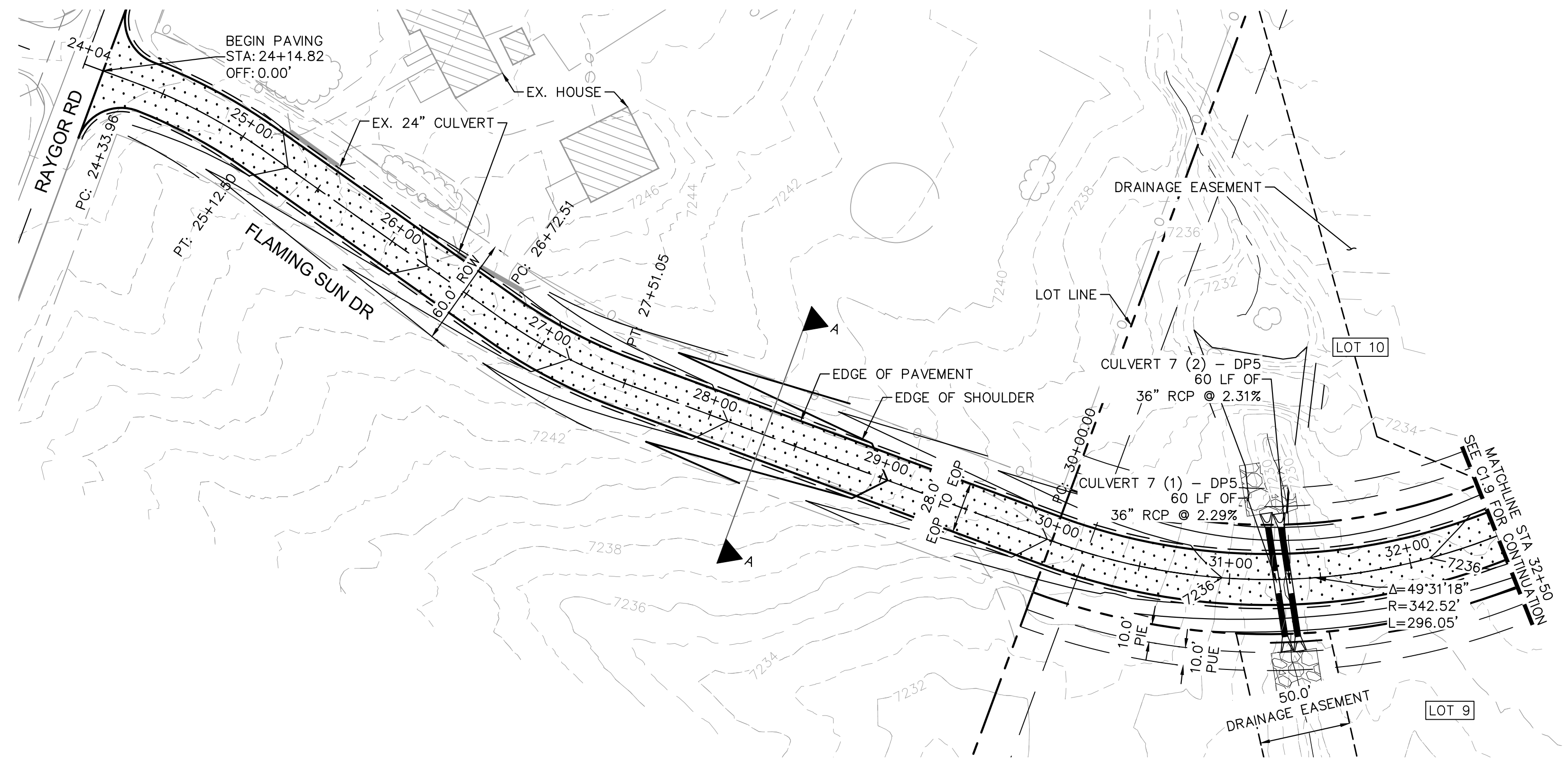
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CALL UTILITY NOTIFICATION
 CENTER OF COLORADO
 1-800-922-1987

CALL 2-BUSINESS DAYS IN ADVANCE
 BEFORE YOU DIG, GRADE, OR EXCAVATE
 FOR THE MARKING OF UNDERGROUND
 MEMBER UTILITIES

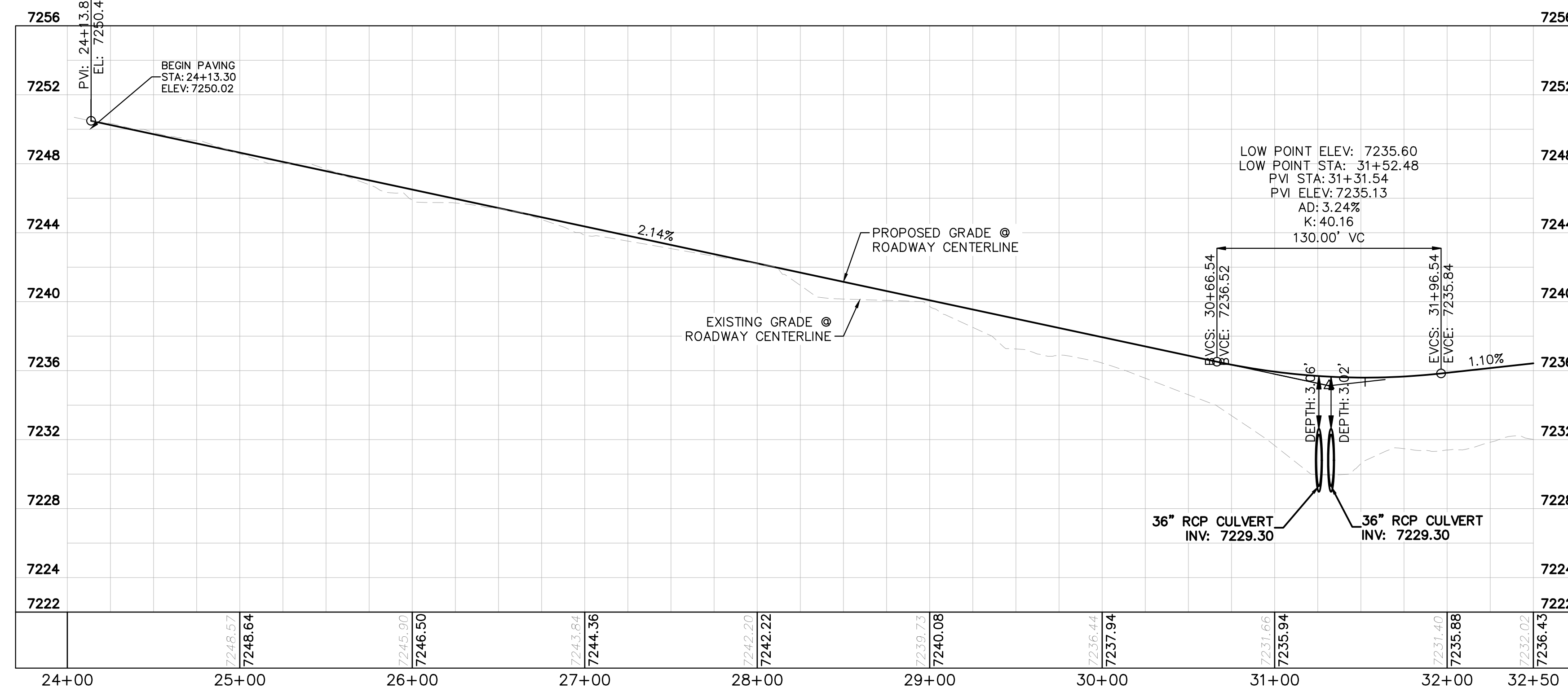
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LEGEND

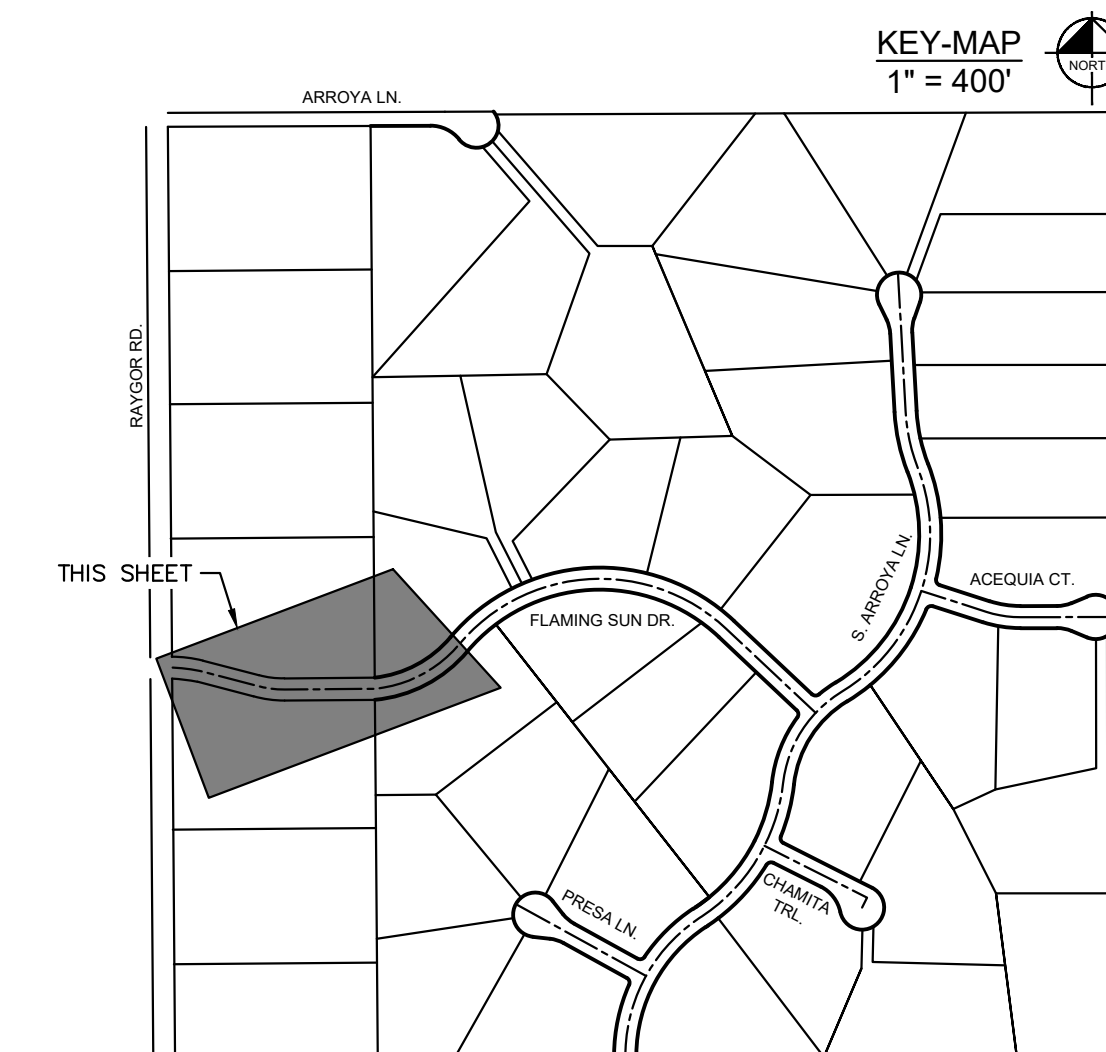
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	ROW LINE
	UTILITY EASEMENT LINE
	LOT NUMBER
	PROPOSED DRAINAGE EASEMENT
	CROSS SECTION (SEE SHEET C1.1)
	PROPOSED CULVERT
	EXISTING CULVERT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED EDGE OF PAVEMENT
	PROPOSED EDGE OF SHOULDER
	TURF REINFORCEMENT MAT
	ASPHALT PAVEMENT

FLAMING SUN DR. PROFILE
STA: 24+00 TO 32+50



NOTES

1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT



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DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
FLAMING SUN DR. PLAN & PROFILE

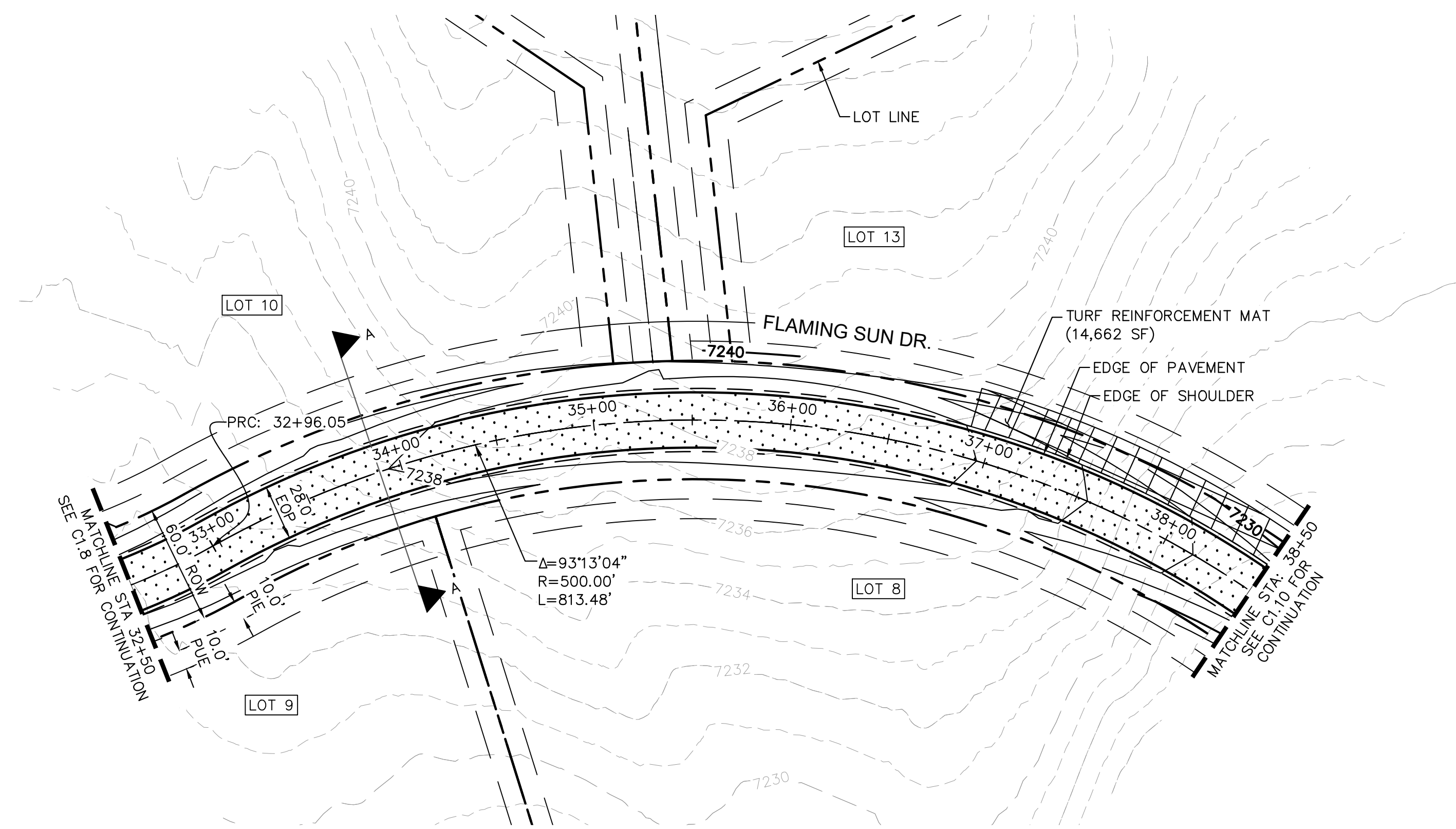


PROJECT NO.
196106001
SHEET

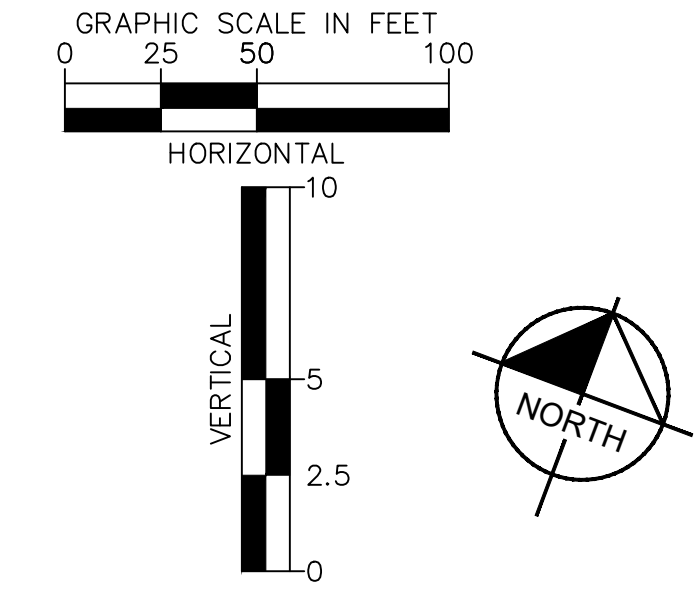
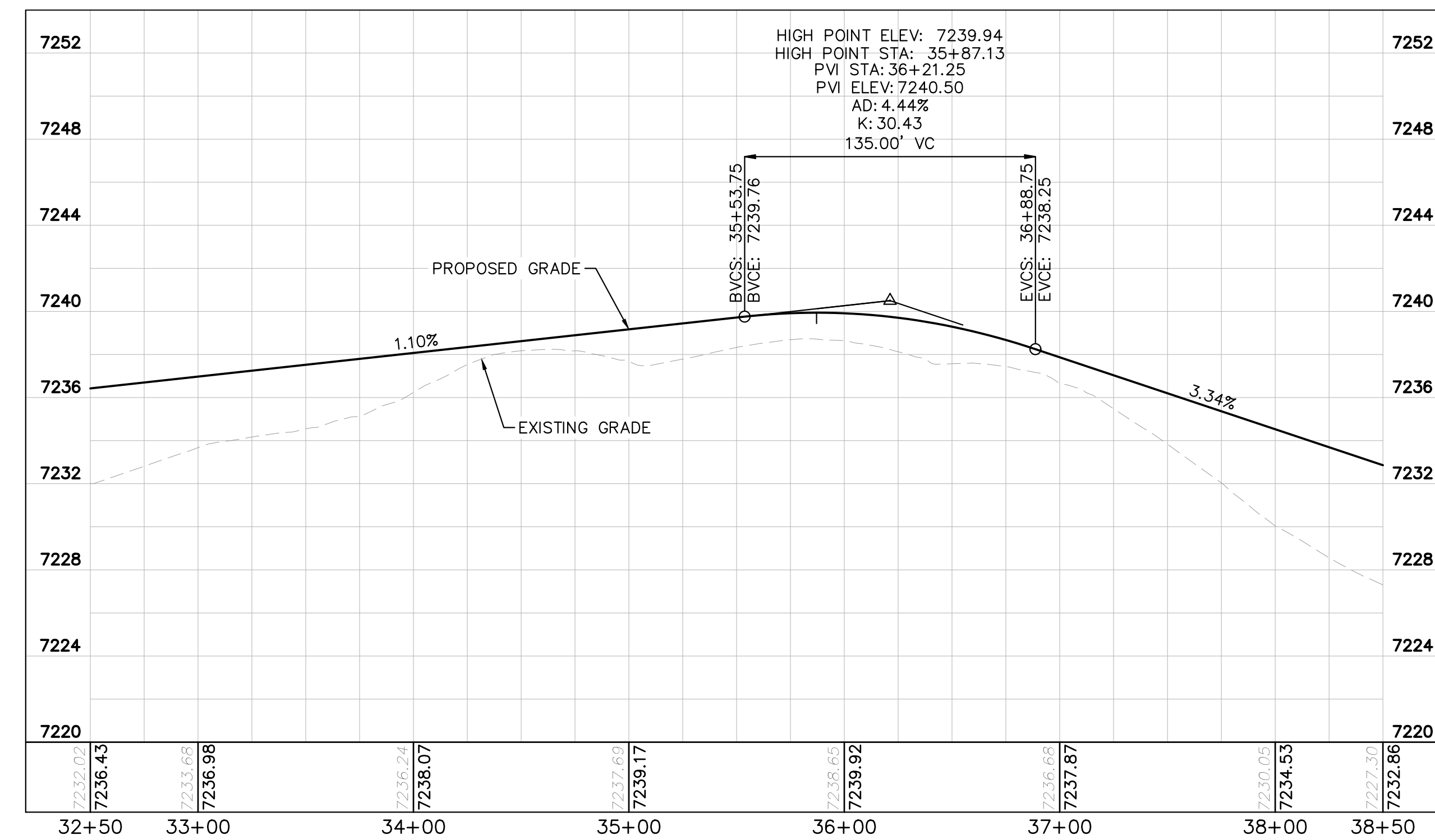
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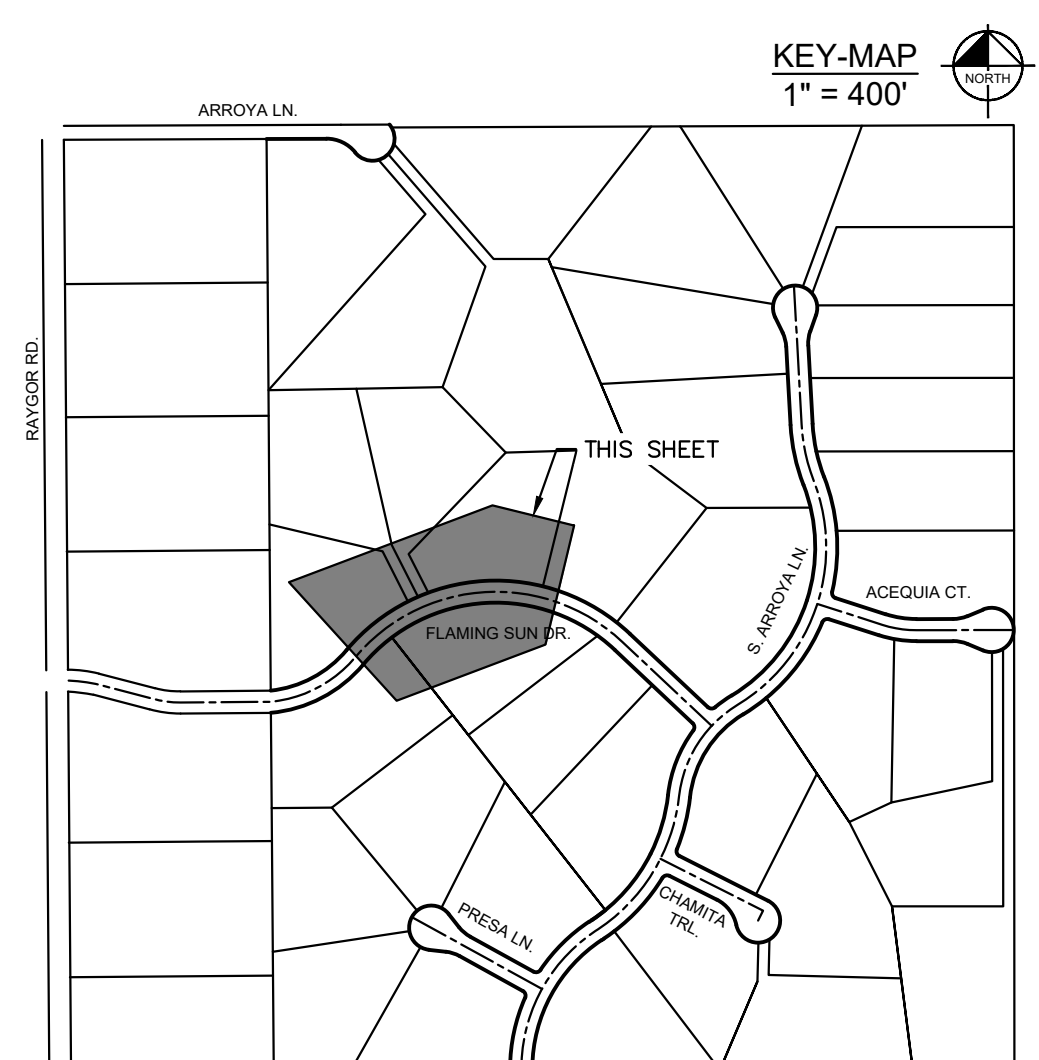
FLAMING SUN DR. PROFILE
STA: 32+50 TO 38+50



- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x- PROPOSED DRAINAGE EASEMENT
 - ▲ x ▲ CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - ▨ TURF REINFORCEMENT MAT
 - ▨ ASPHALT PAVEMENT

NOTES

1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT

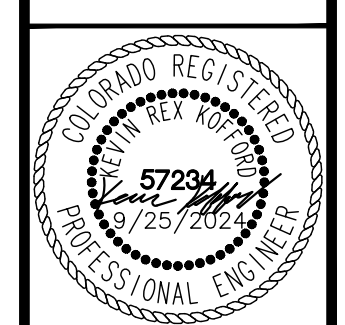


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Kimley»Horn
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2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
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DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
FLAMING SUN DR. PLAN & PROFILE



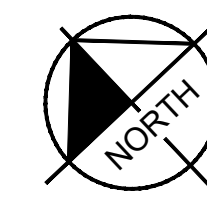
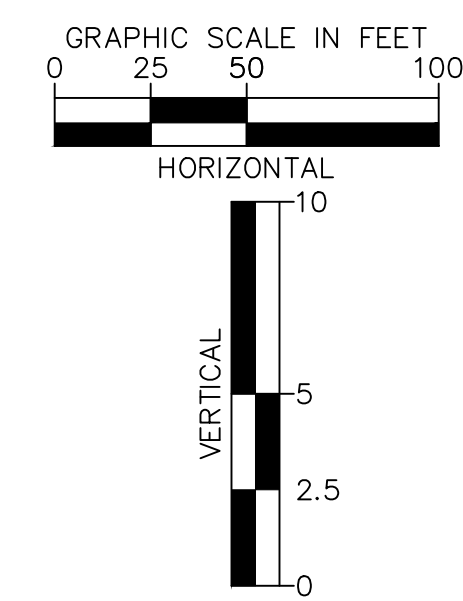
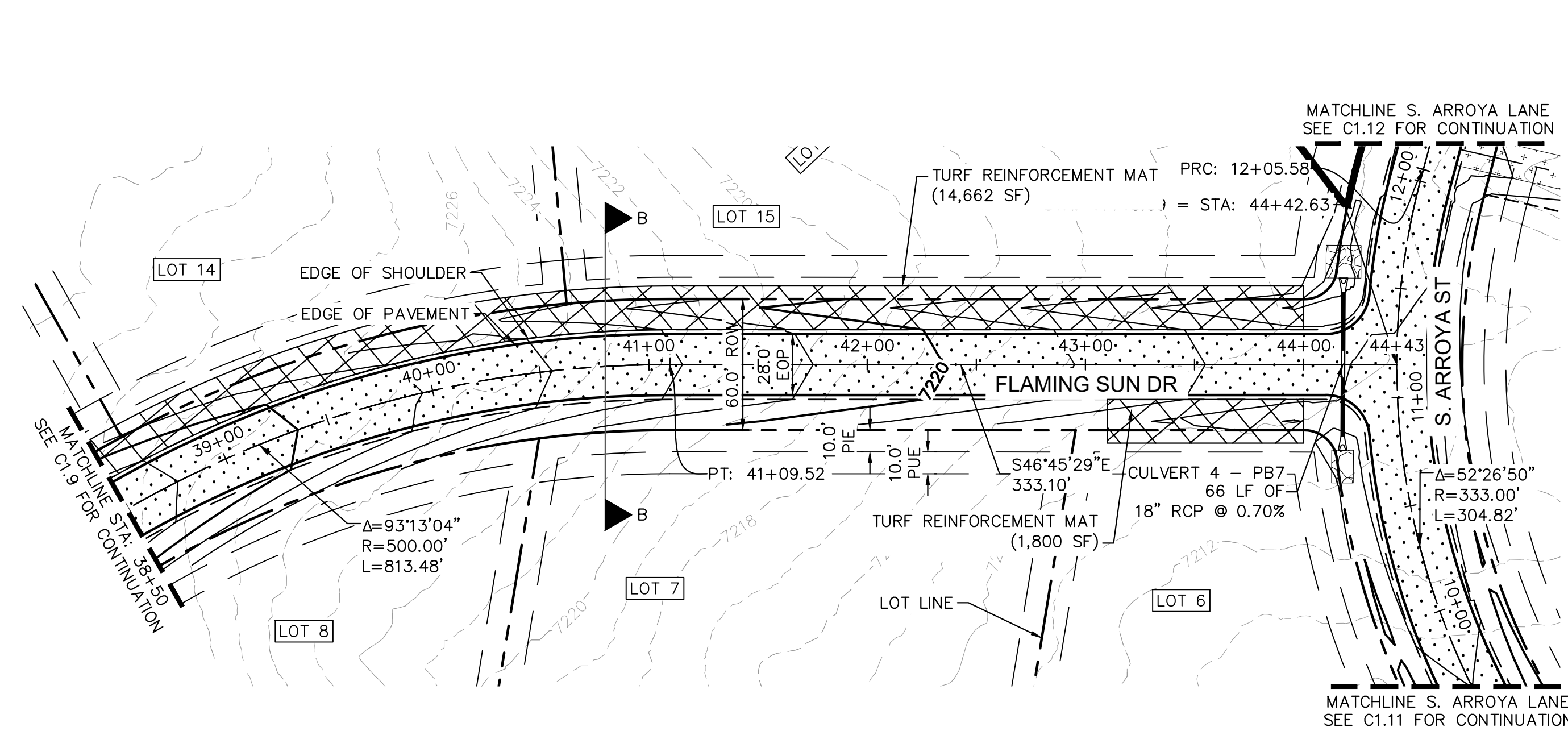
PROJECT NO.
196106001

SHEET

C1.9

PCD FILE #: SF-22-42

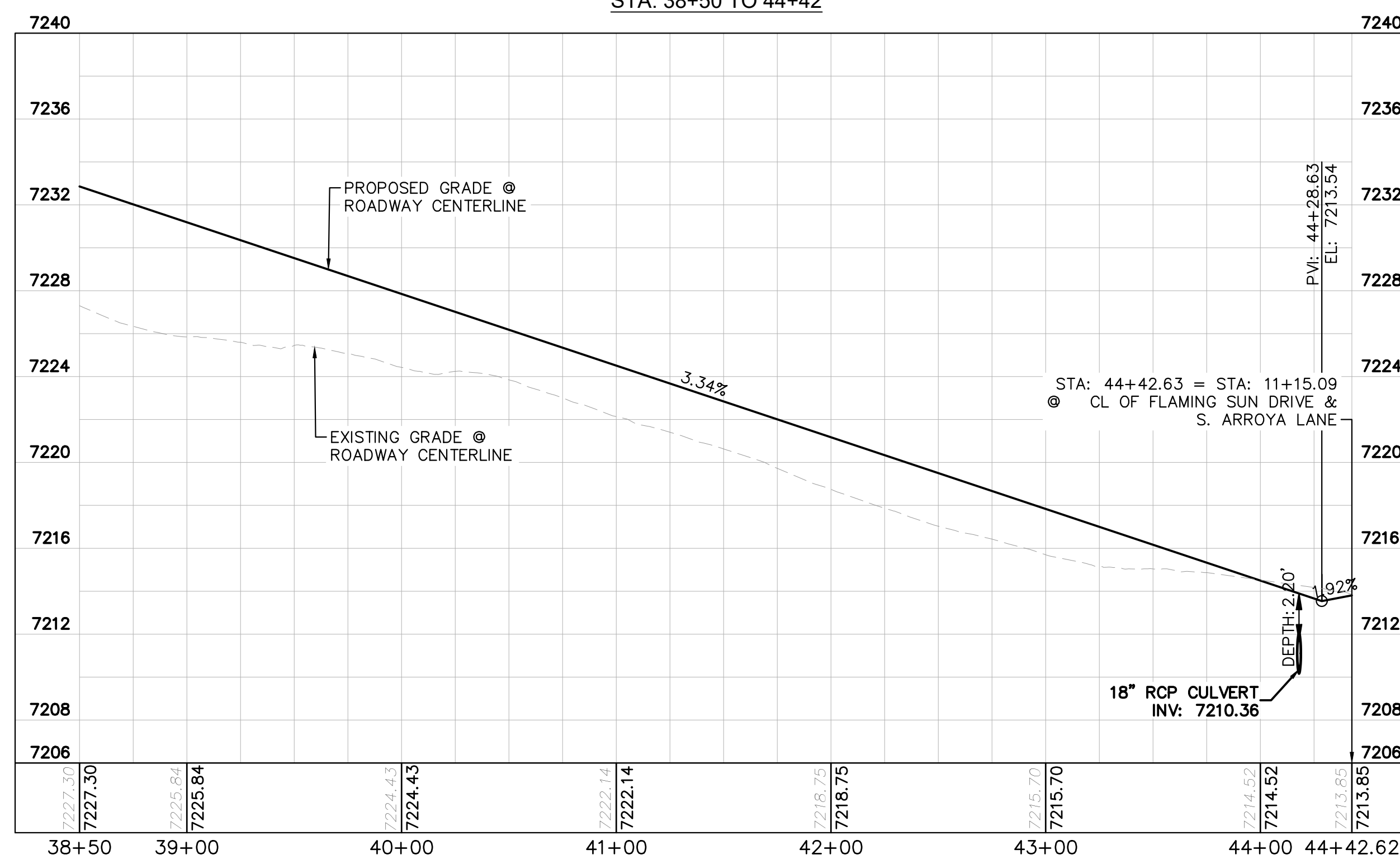
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LEGEND

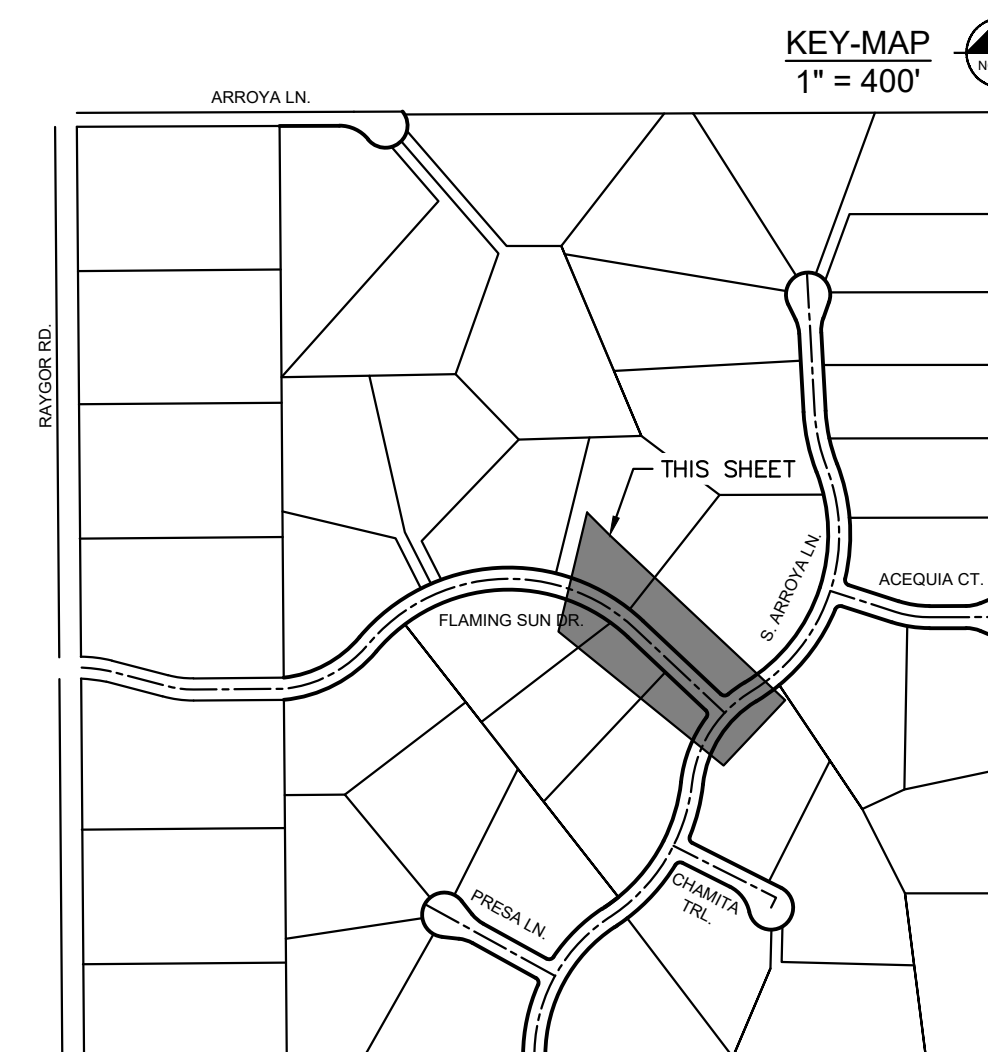
- PROPERTY/LOT LINE
- ROW LINE
- UTILITY EASEMENT LINE
- LOT # LOT NUMBER
- x-x- PROPOSED DRAINAGE EASEMENT
- ▲▲ CROSS SECTION (SEE SHEET C1.1)
- PROPOSED CULVERT
- EXISTING CULVERT
- 7XXX- EXISTING MAJOR CONTOUR
- 7XXX- EXISTING MINOR CONTOUR
- 7XXX PROPOSED MAJOR CONTOUR
- 7XXX PROPOSED MINOR CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF SHOULDER
- ▨ TURF REINFORCEMENT MAT
- ▨ ASPHALT PAVEMENT

FLAMING SUN DR. PROFILE
STA: 38+50 TO 44+42



NOTES

1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT

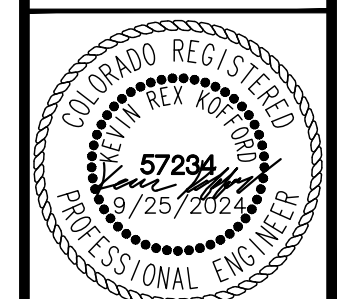


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2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KKK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
FLAMING SUN DR. PLAN & PROFILE



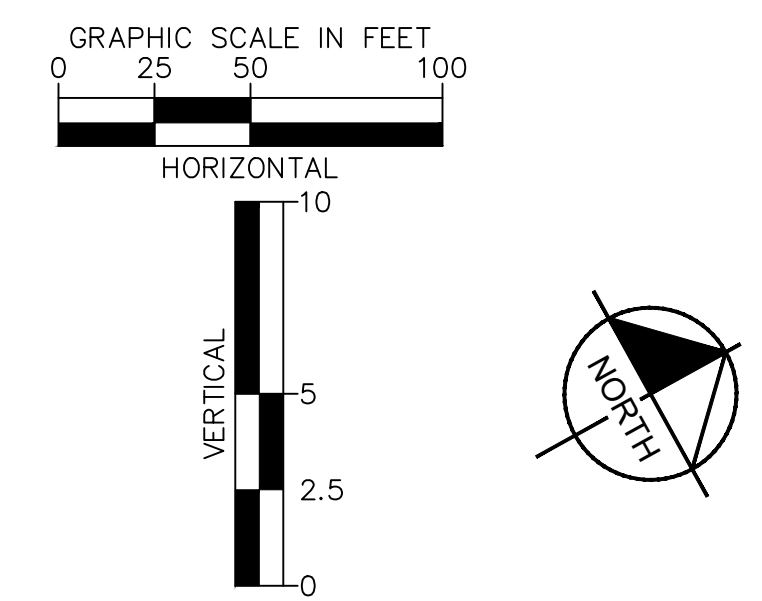
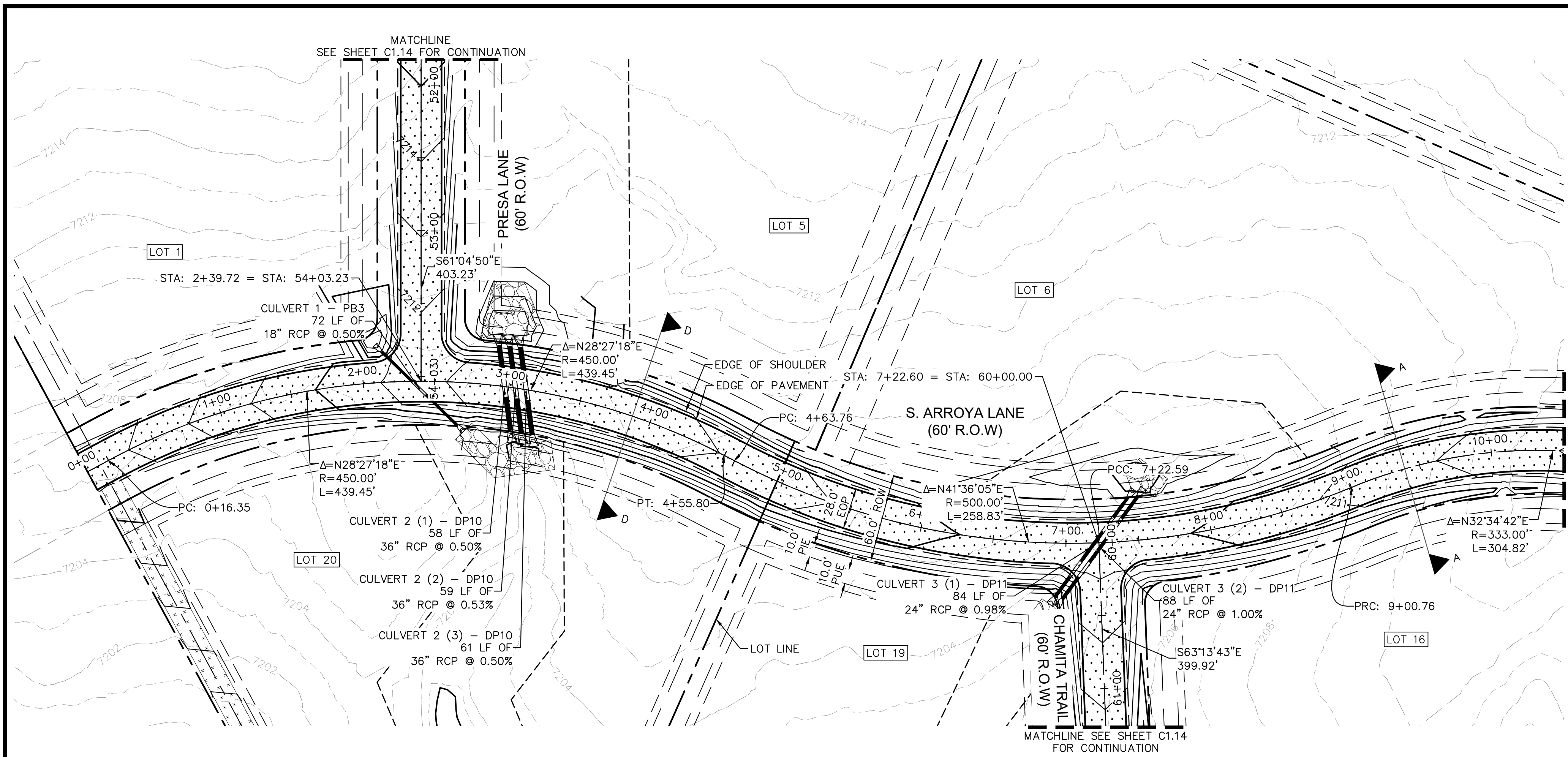
PROJECT NO.
196106001

SHEET

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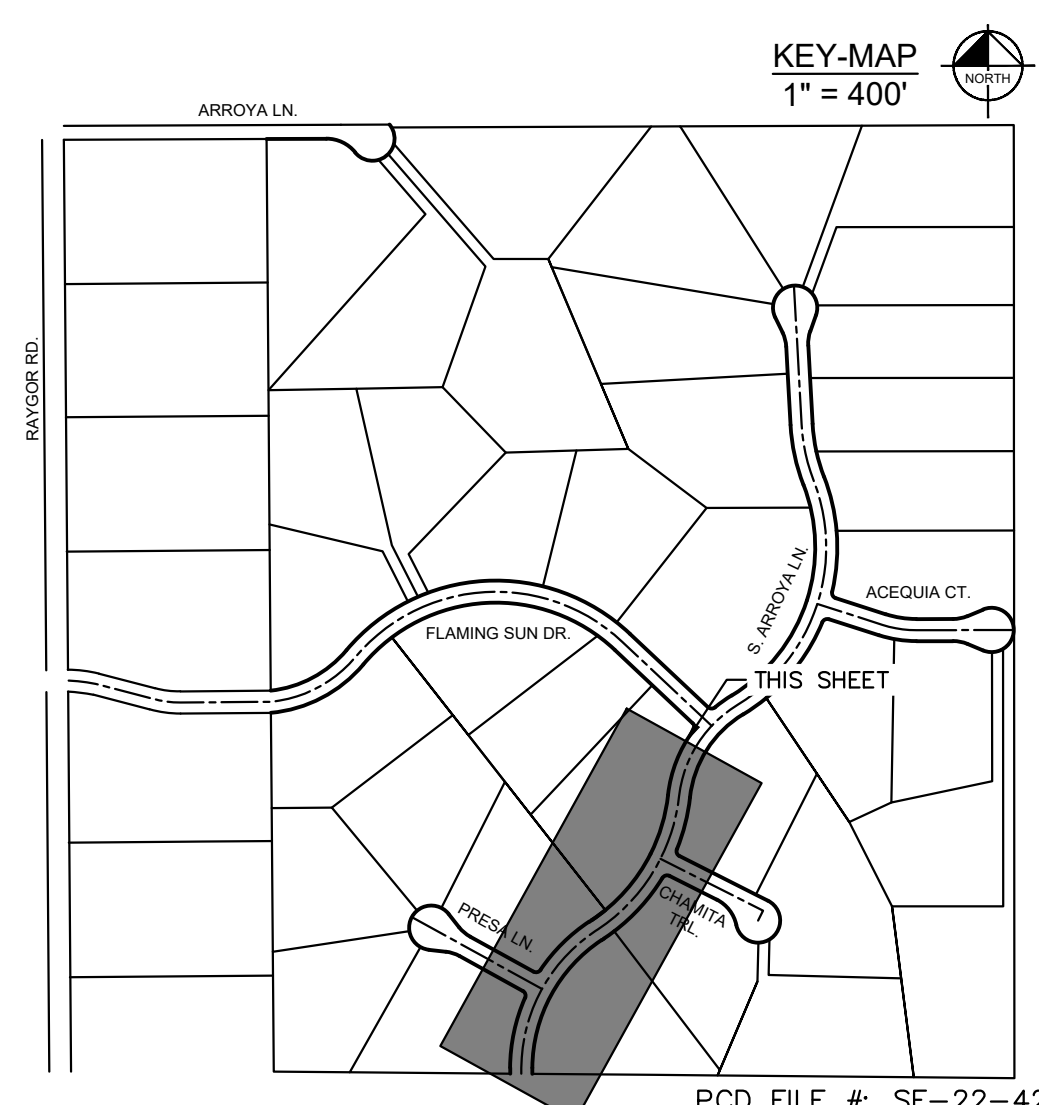
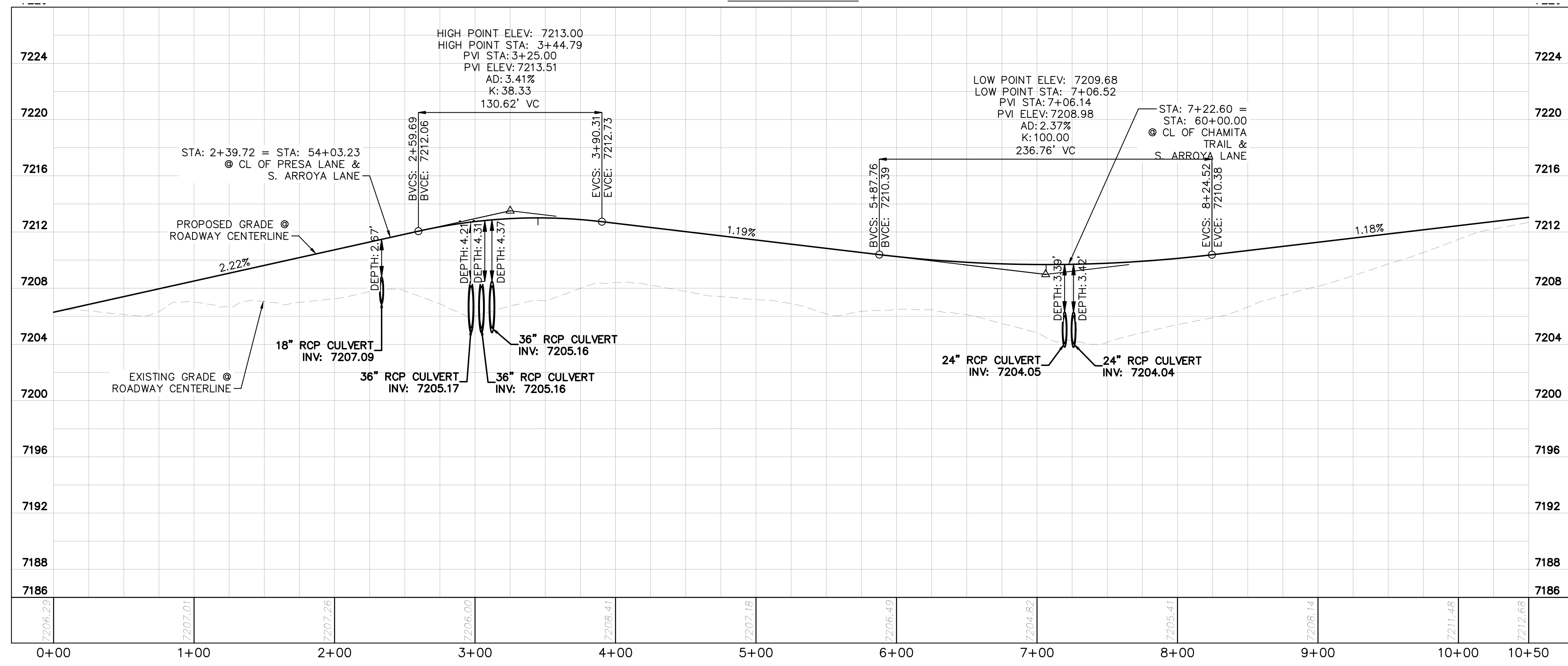


- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x-x- PROPOSED DRAINAGE EASEMENT
 - ▲▲▲ CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX- PROPOSED MAJOR CONTOUR
 - 7XXX- PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - ▨ TURF REINFORCEMENT MAT
 - ▨ ASPHALT PAVEMENT

NOTES

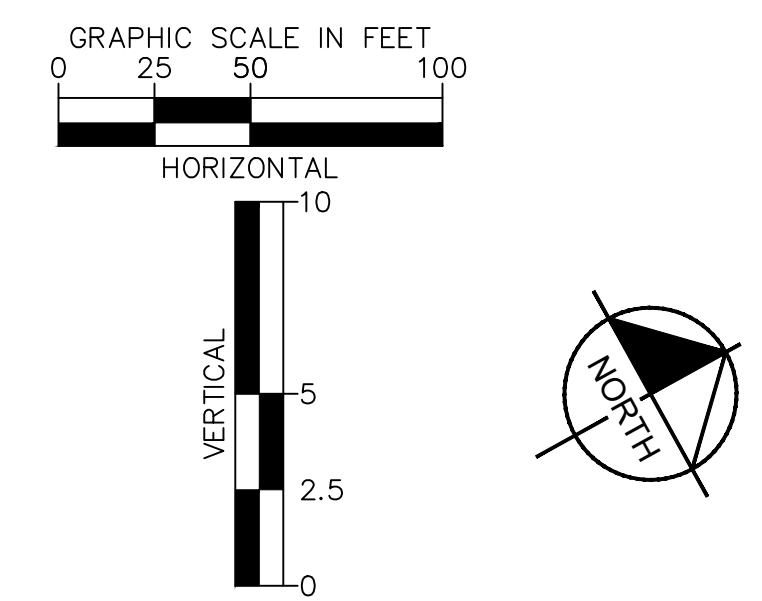
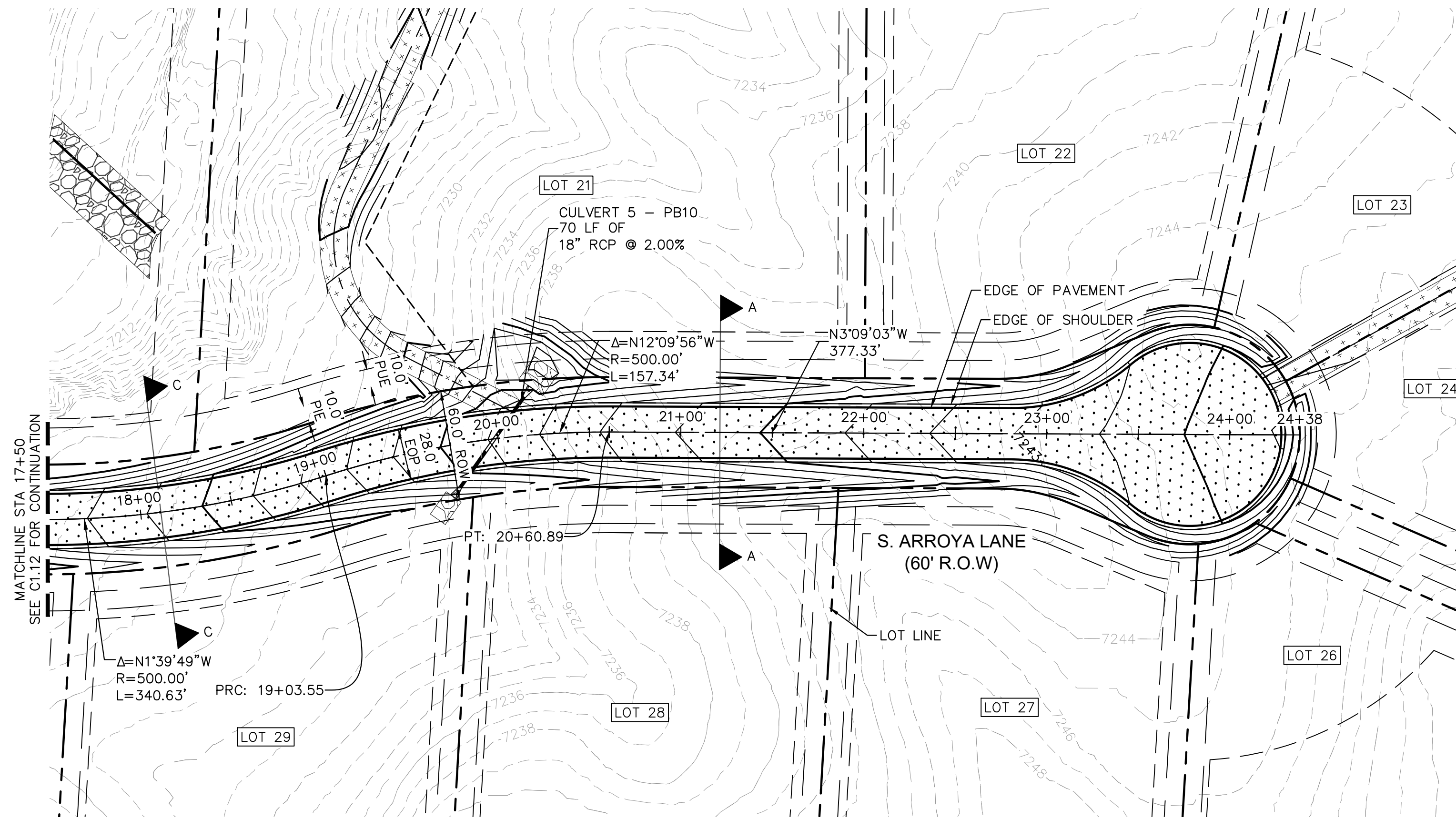
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2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT

**S. ARROYA LANE PROFILE
STA: 0+00 TO 10+50**



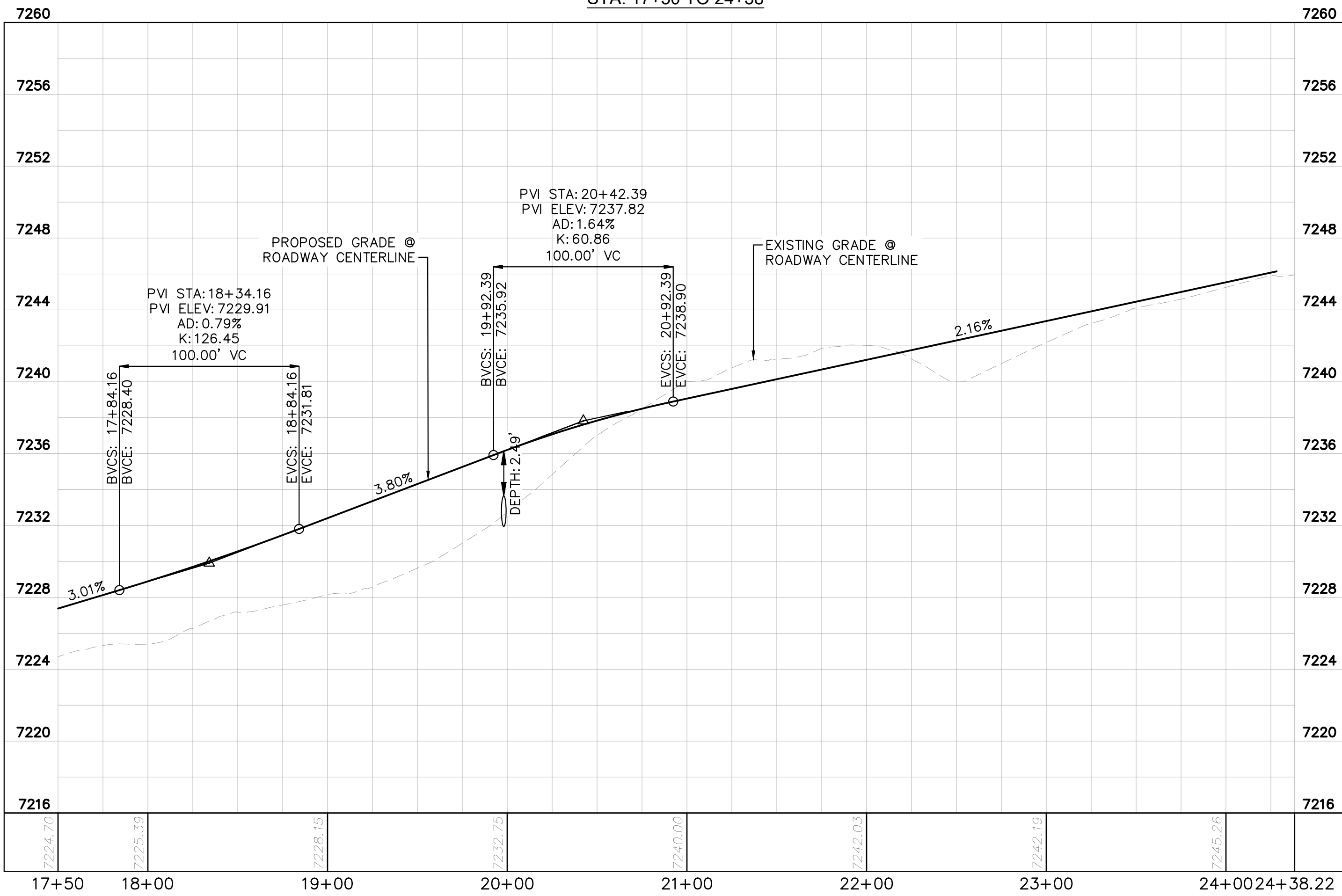
<p>2024 KIMLEY-HORN AND ASSOCIATES, INC. 2 North Nevada Avenue Suite 900 Colorado Springs, Colorado 80903 (719) 453-0180</p>	<p>DESIGNED BY: MJK DRAWN BY: MJK CHECKED BY: KKK DATE: 9/17/2024</p>						
<p>EAGLEVIEW EL PASO COUNTY, COLORADO CONSTRUCTION DOCUMENTS S. ARROYA LN. PLAN & PROFILE</p>	<p>PROJECT NO. 196106001 SHEET C1.11</p>						
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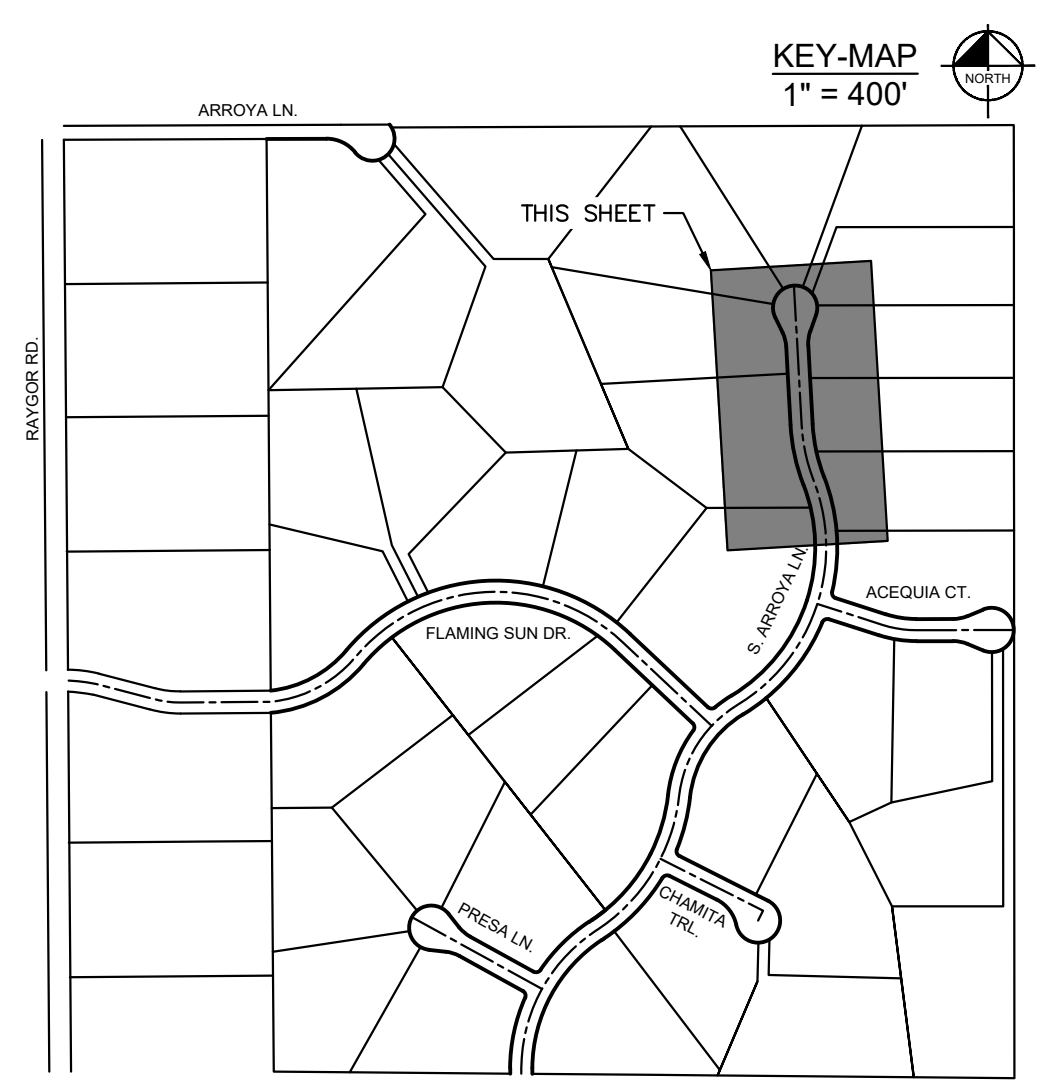
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 - ROW LINE
 - UTILITY EASEMENT LINE
 - [LOT #] LOT NUMBER
 - x-x- PROPOSED DRAINAGE EASEMENT
 - ▲▲ CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX--- PROPOSED MAJOR CONTOUR
 - 7XXX--- PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - [X-X-X-X] TURF REINFORCEMENT MAT
 - [Dotted] ASPHALT PAVEMENT

S. ARROYA LANE PROFILE
 STA: 17+50 TO 24+38



NOTES

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 Colorado Springs, Colorado 80903 (719) 453-0180

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EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
S. ARROYA LN. PLAN & PROFILE

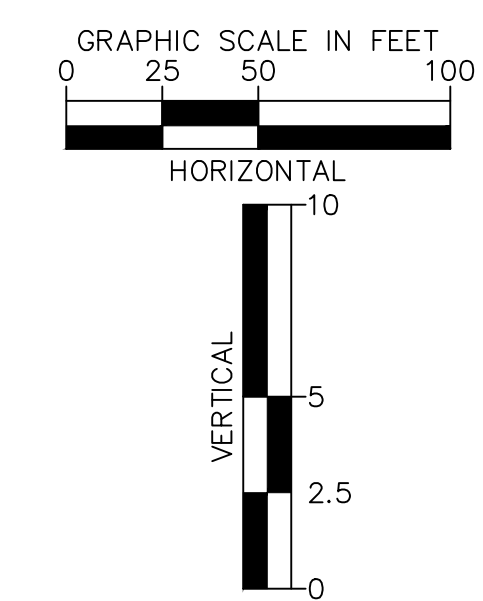
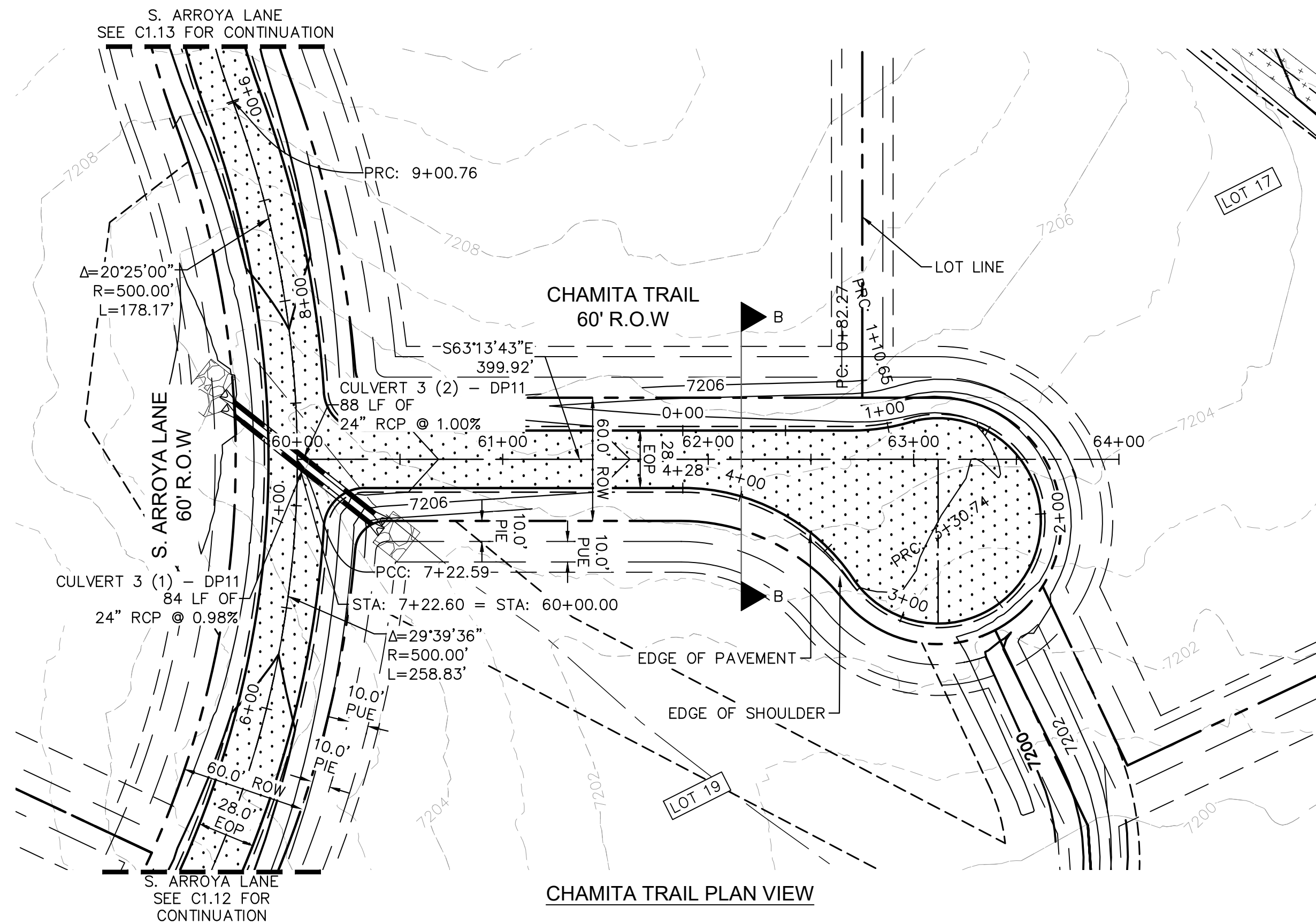
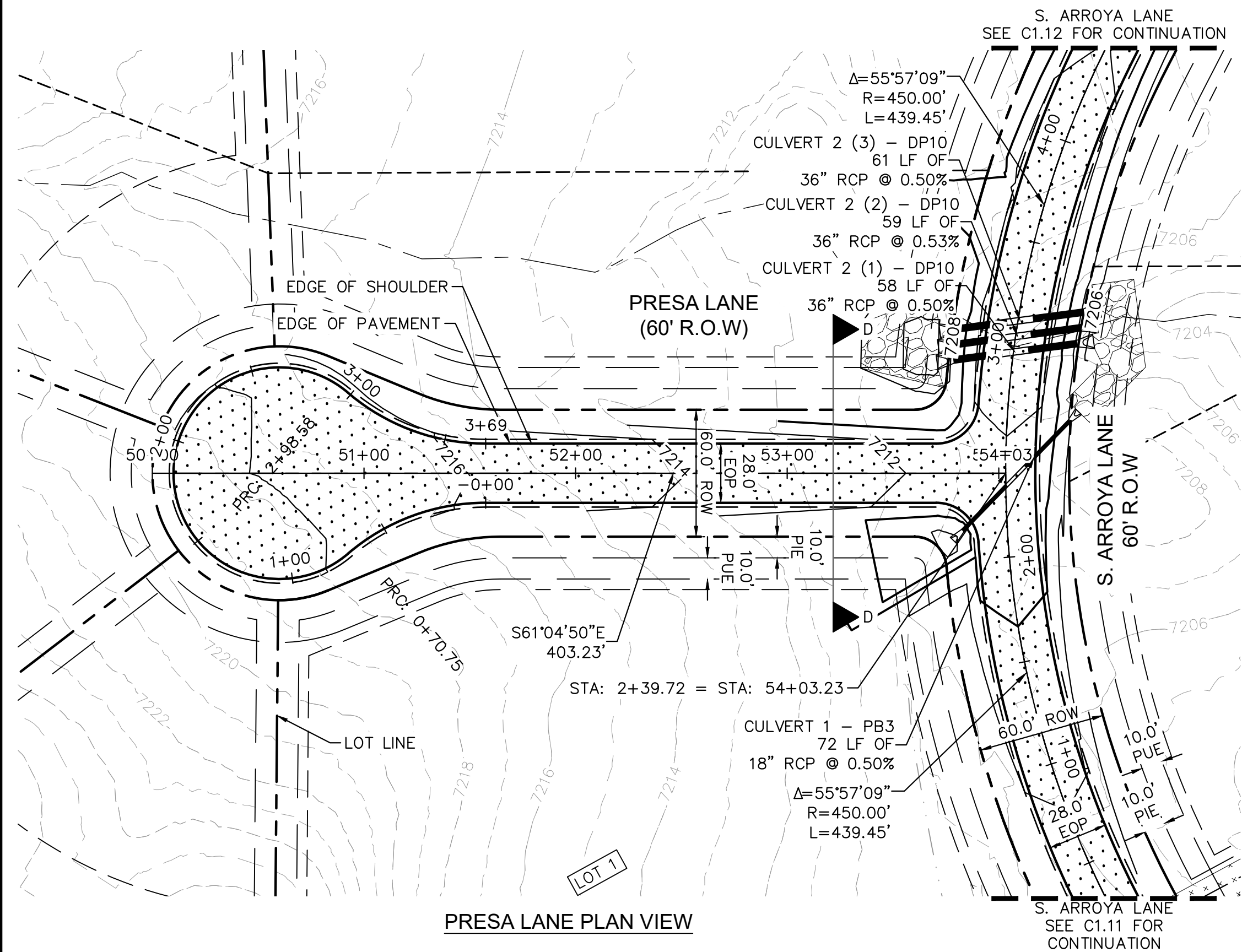
PROJECT NO.
 196106001

SHEET
C1.13

PCD FILE #: SF-22-42



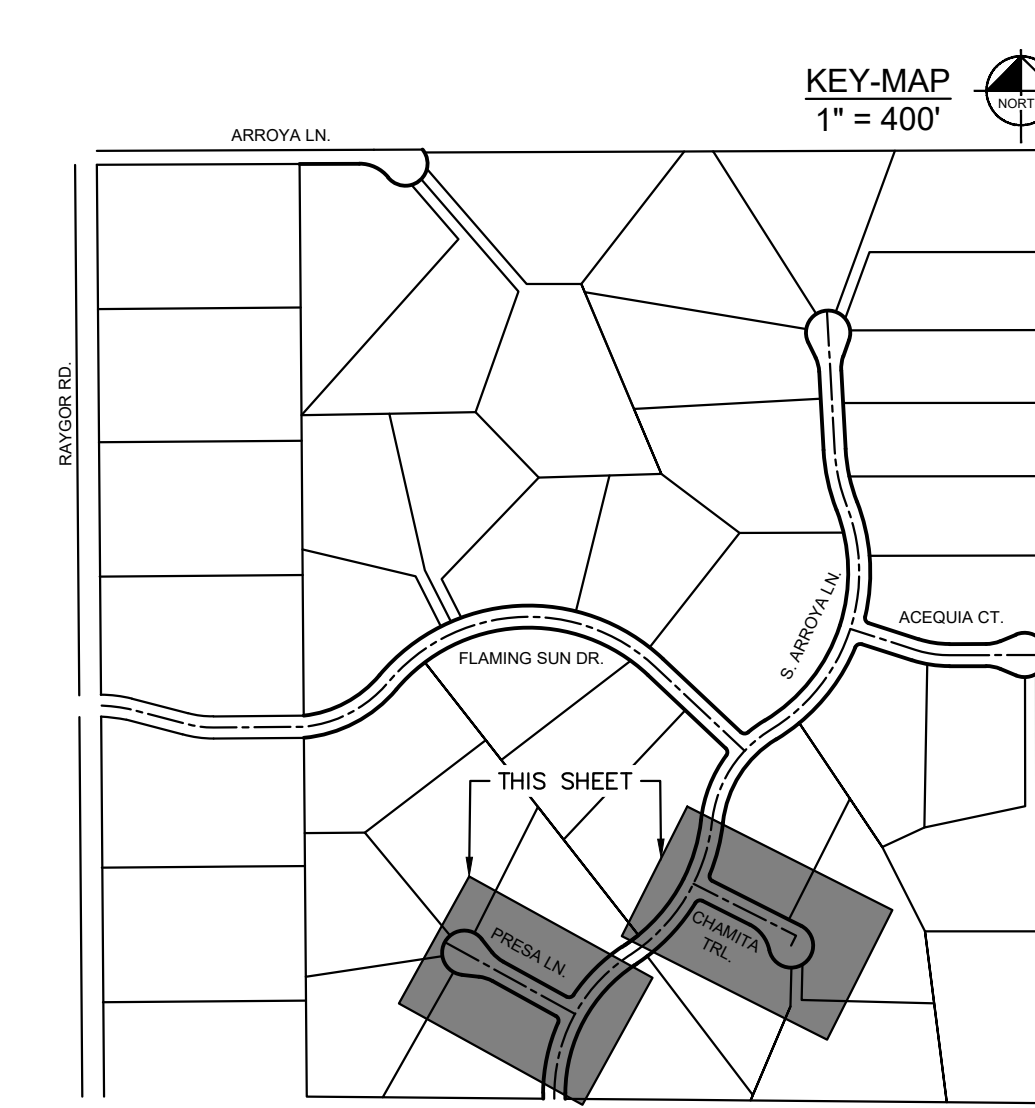
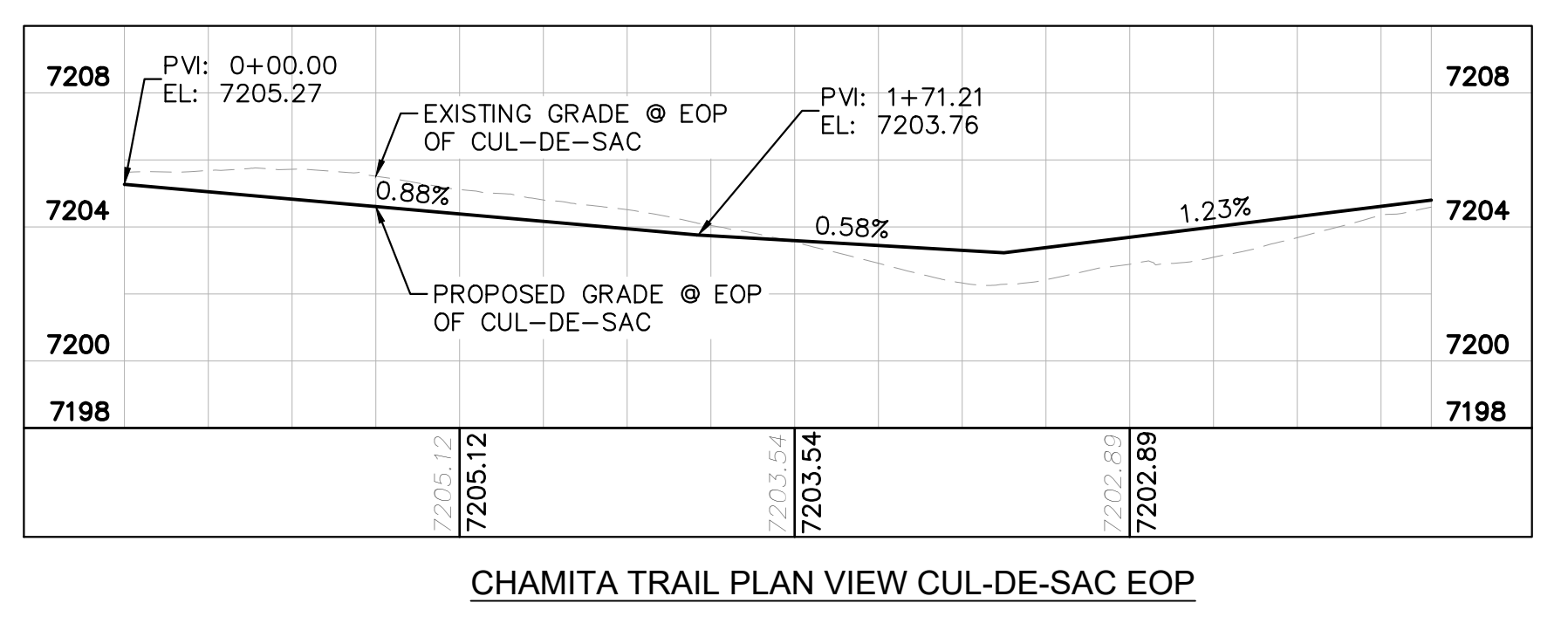
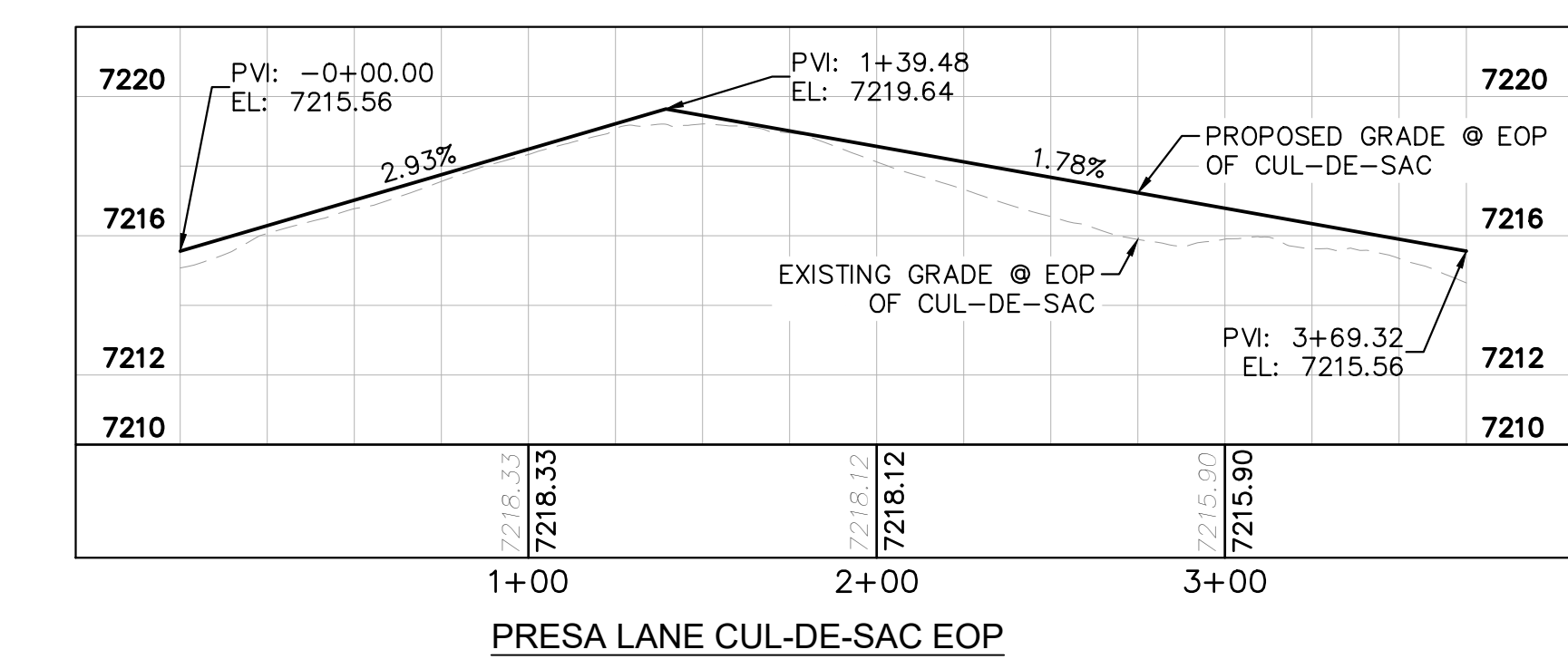
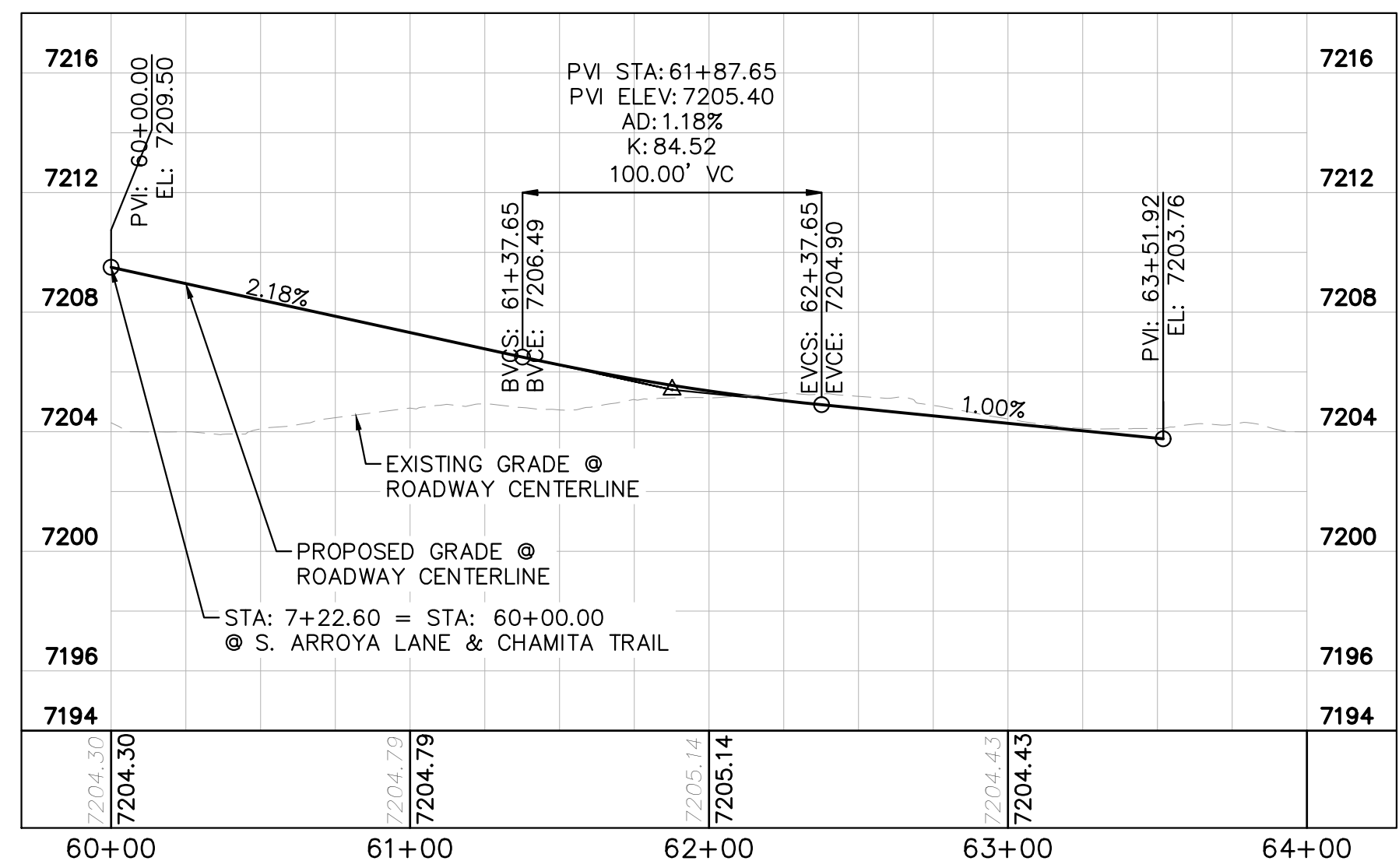
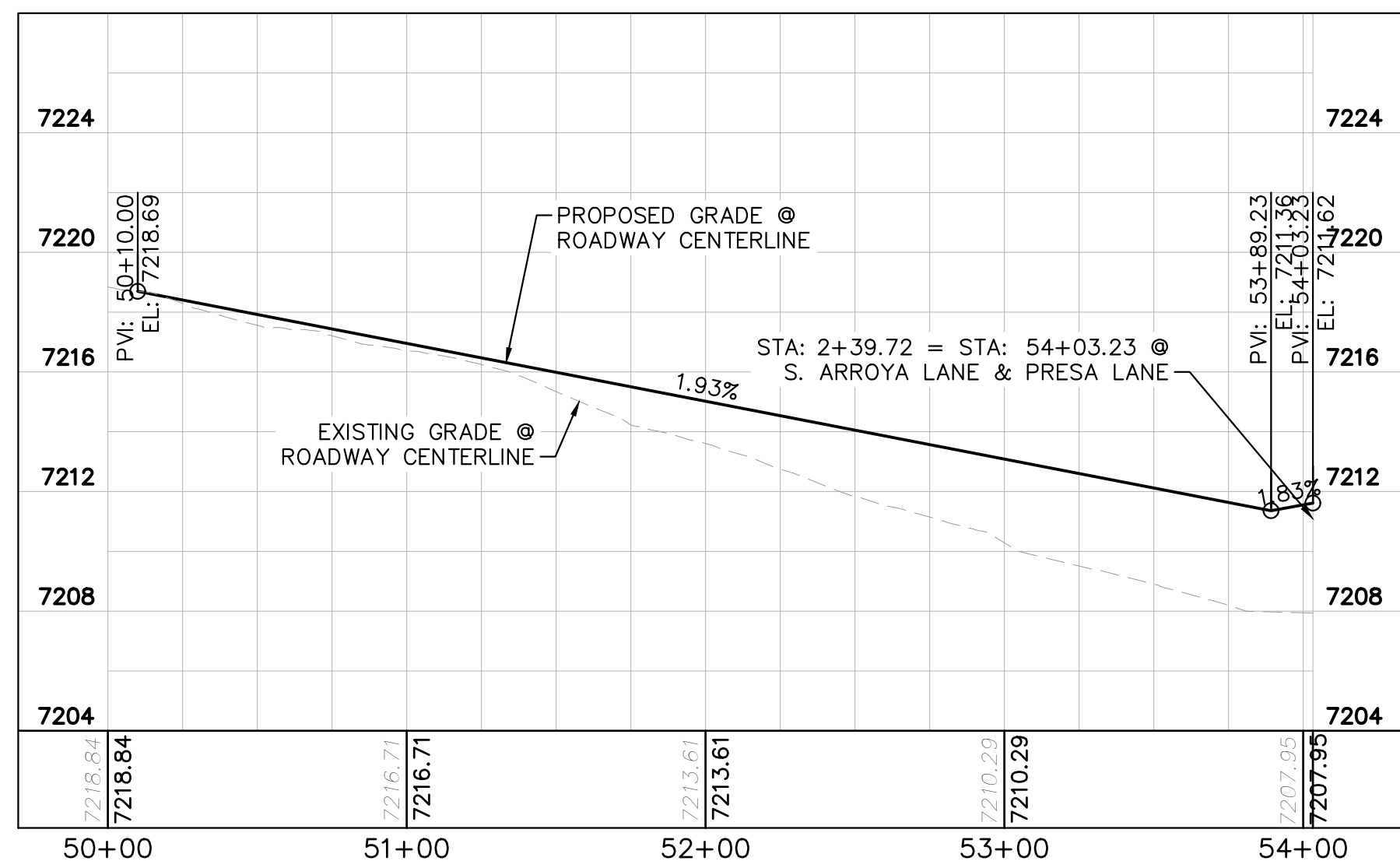
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- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT #
 - PROPOSED DRAINAGE EASEMENT
 - CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - TURF REINFORCEMENT MAT
 - ASPHALT PAVEMENT

NOTES

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 CHECKED BY: KKK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
PRESA LN. & CHAMITA TRAIL PLAN & PROFILE

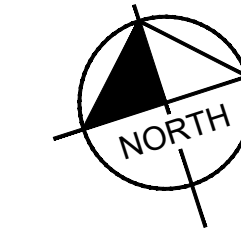
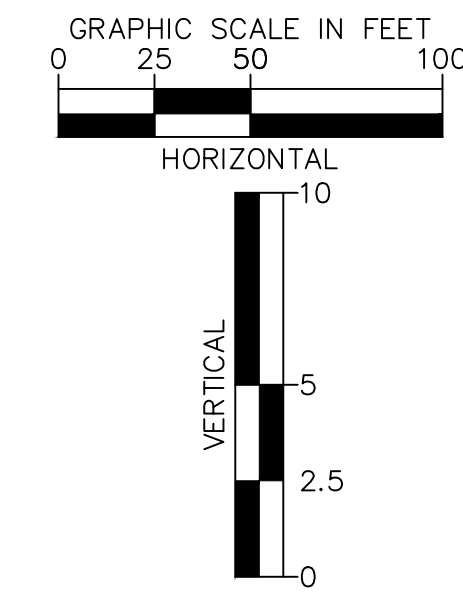
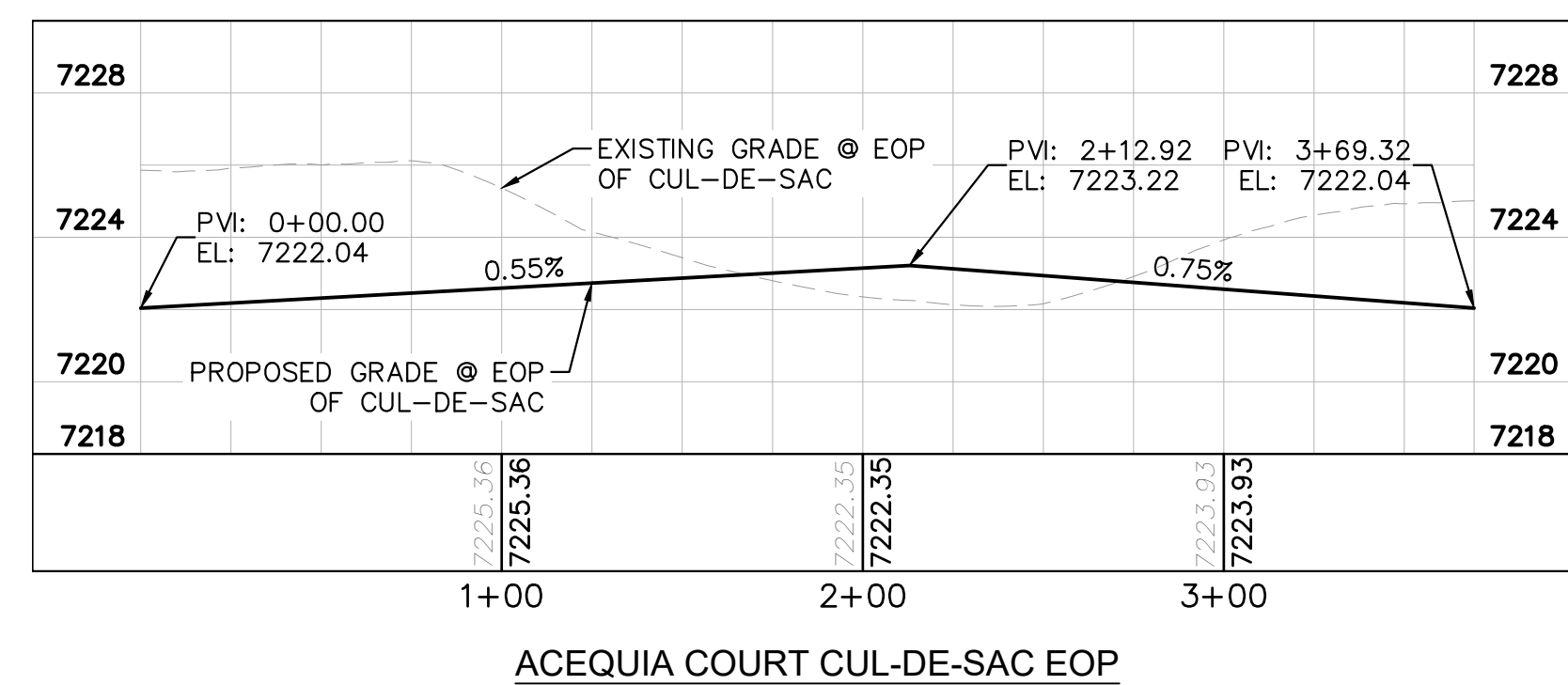
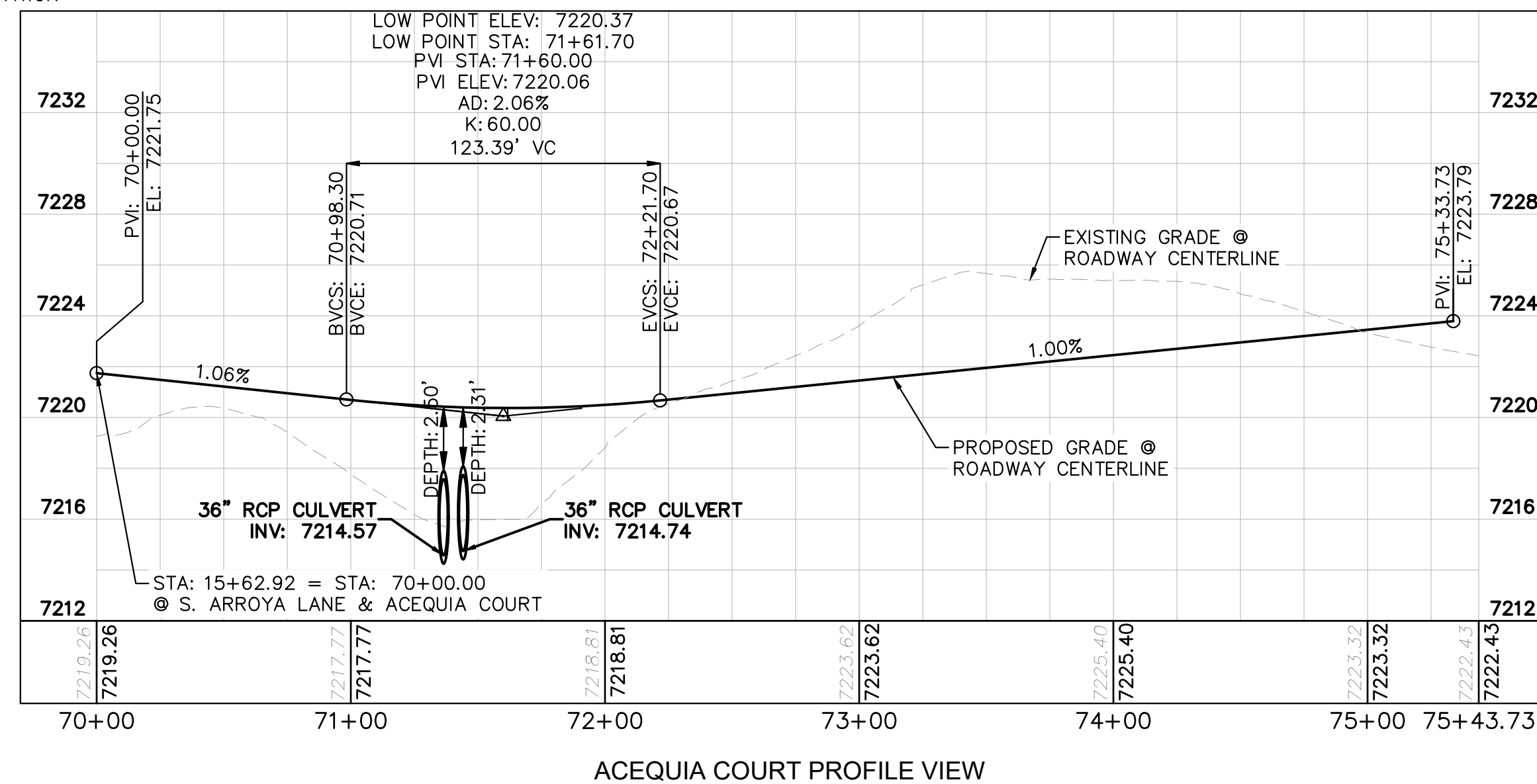
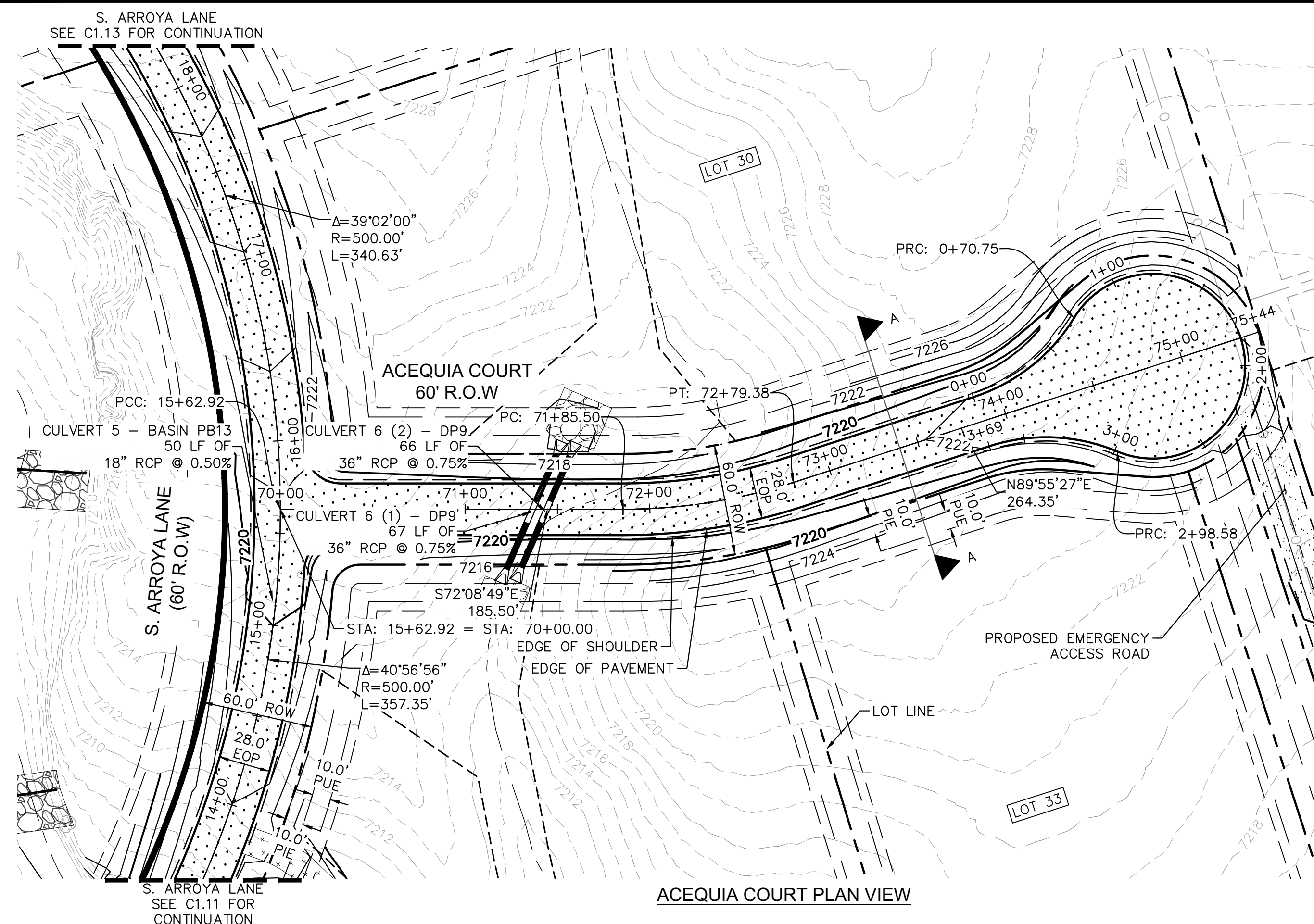
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 57234
 8/25/2018

PROJECT NO. 196106001
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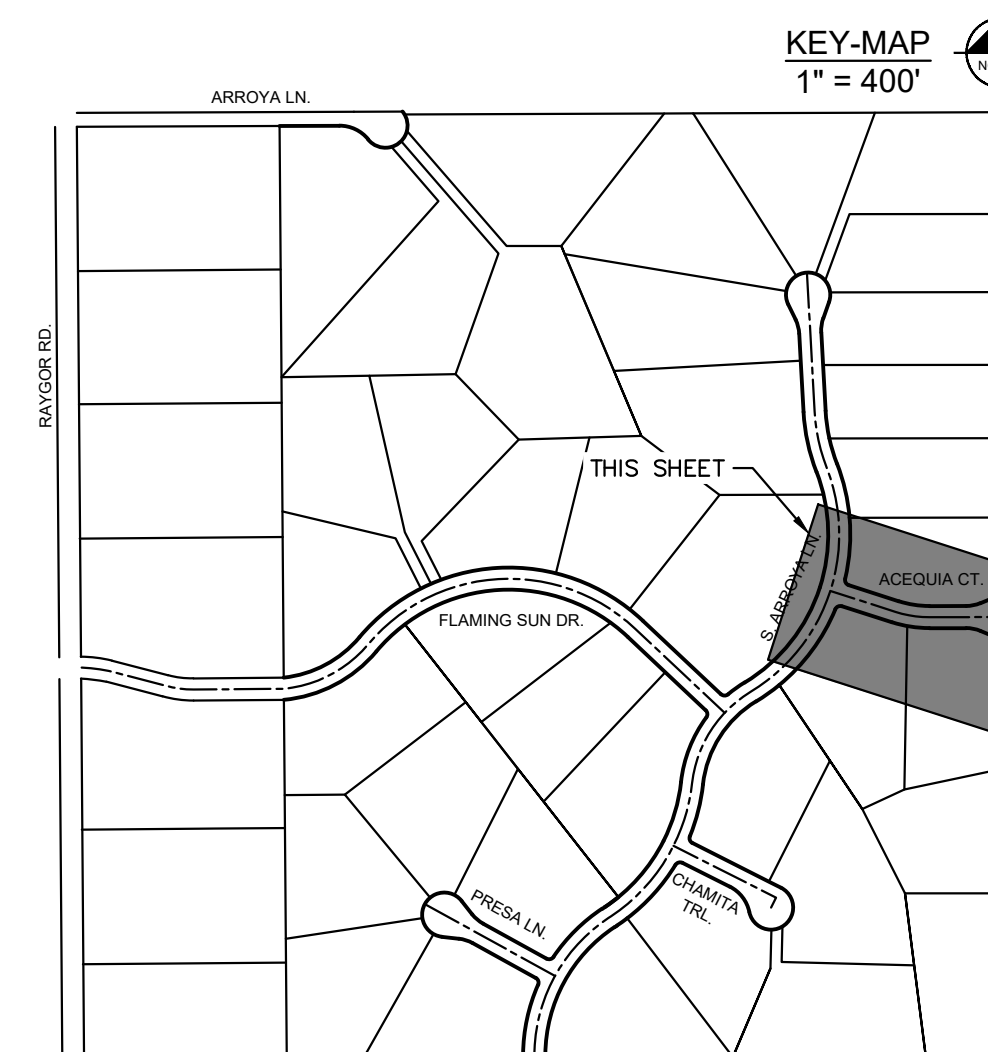
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- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - - - - - PROPOSED DRAINAGE EASEMENT
 - X X CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - - - - - EXISTING MAJOR CONTOUR
 - - - - - EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER
 - X X X X X TURF REINFORCEMENT MAT
 - ASPHALT PAVEMENT

NOTES

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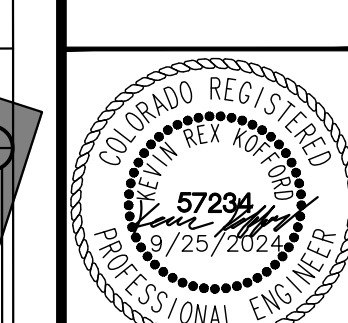


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 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
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 CHECKED BY: KRK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
ACEQUIA CT. PLAN & PROFILE

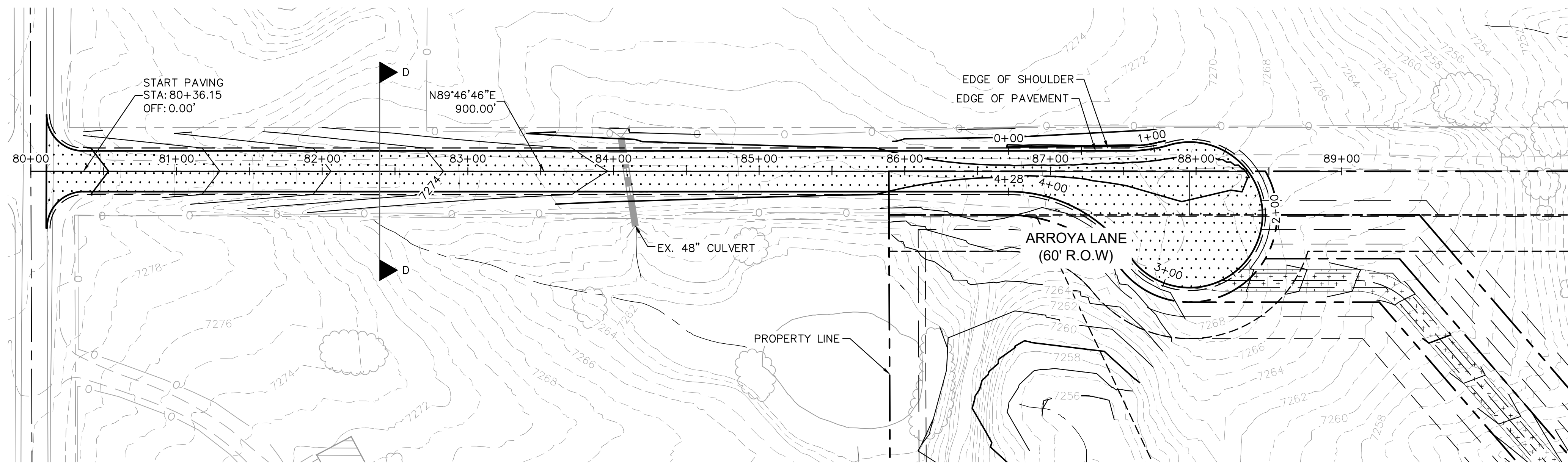


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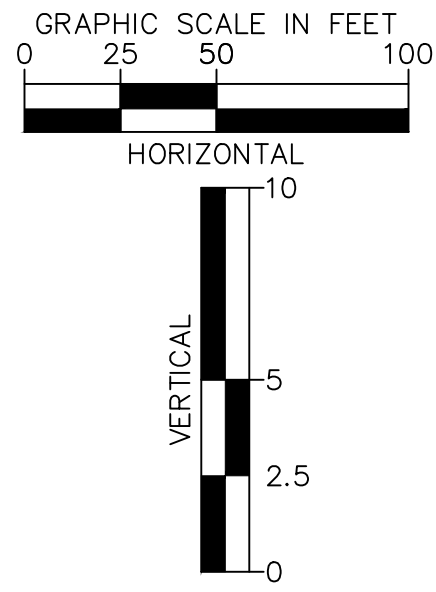
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ARROYA LANE PLAN VIEW

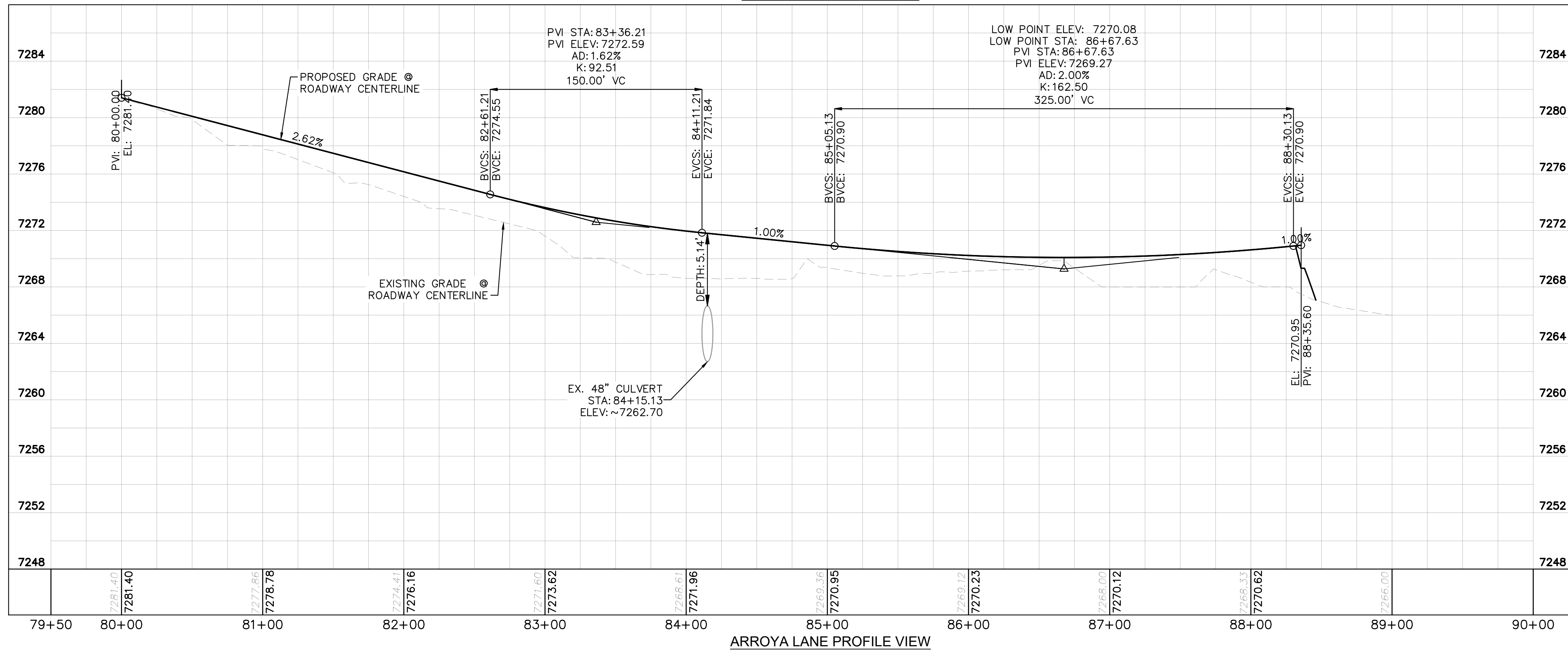


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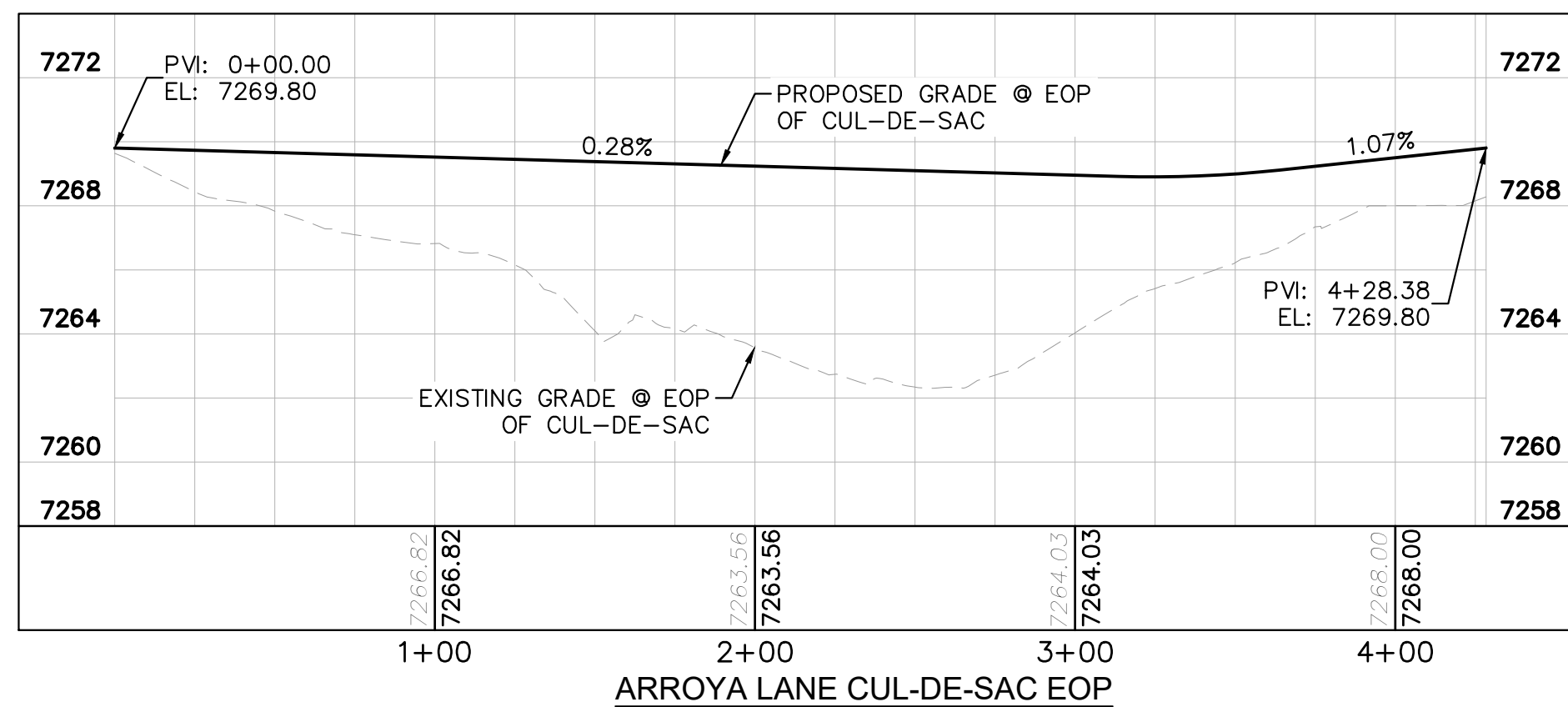
- PROPERTY/LOT LINE
- ROW LINE
- UTILITY EASEMENT LINE
- LOT # LOT NUMBER
- PROPOSED DRAINAGE EASEMENT
- X X CROSS SECTION (SEE SHEET C1.1)
- PROPOSED CULVERT
- EXISTING CULVERT
- - - 7XXX EXISTING MAJOR CONTOUR
- - - 7XXX EXISTING MINOR CONTOUR
- 7XXX PROPOSED MAJOR CONTOUR
- 7XXX PROPOSED MINOR CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF SHOULDER
- X X X X X TURF REINFORCEMENT MAT
- ASPHALT PAVEMENT

NOTES

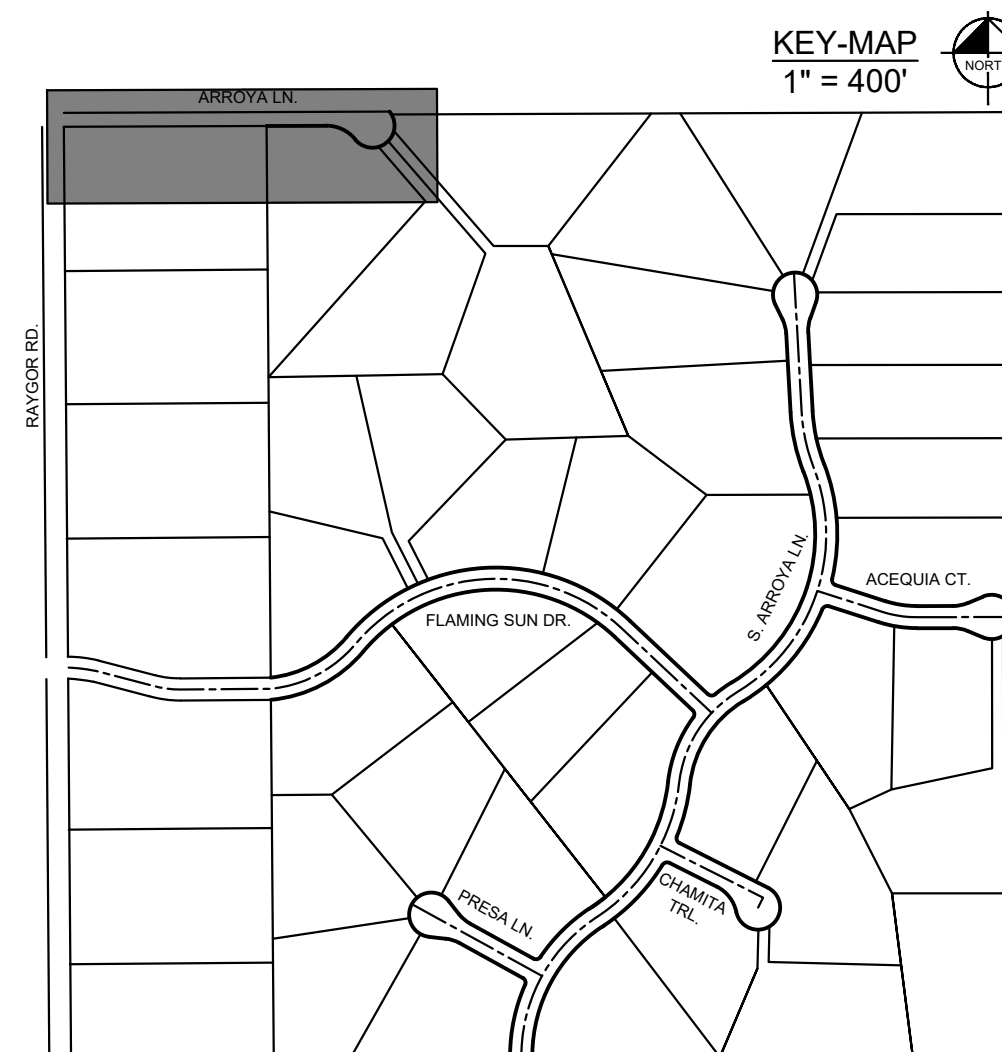
1. SEE SHEET C1.1 FOR TYPICAL ROADWAY SECTIONS AND ROADSIDE DITCH CONFIGURATIONS AS LABELED IN PLAN VIEW.
2. PIE = PUBLIC IMPROVEMENT EASEMENT
3. PUE = PUBLIC UTILITY EASEMENT



ARROYA LANE PROFILE VIEW



ARROYA LANE CUL-DE-SAC EOP

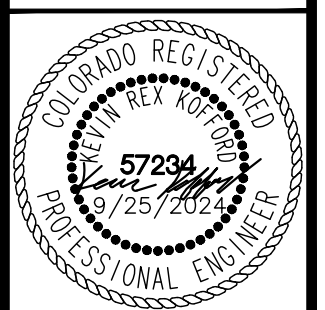


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 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KKK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
ARROYA LN. PLAN & PROFILE



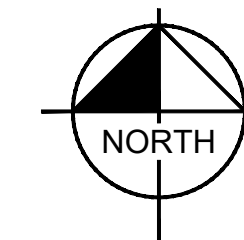
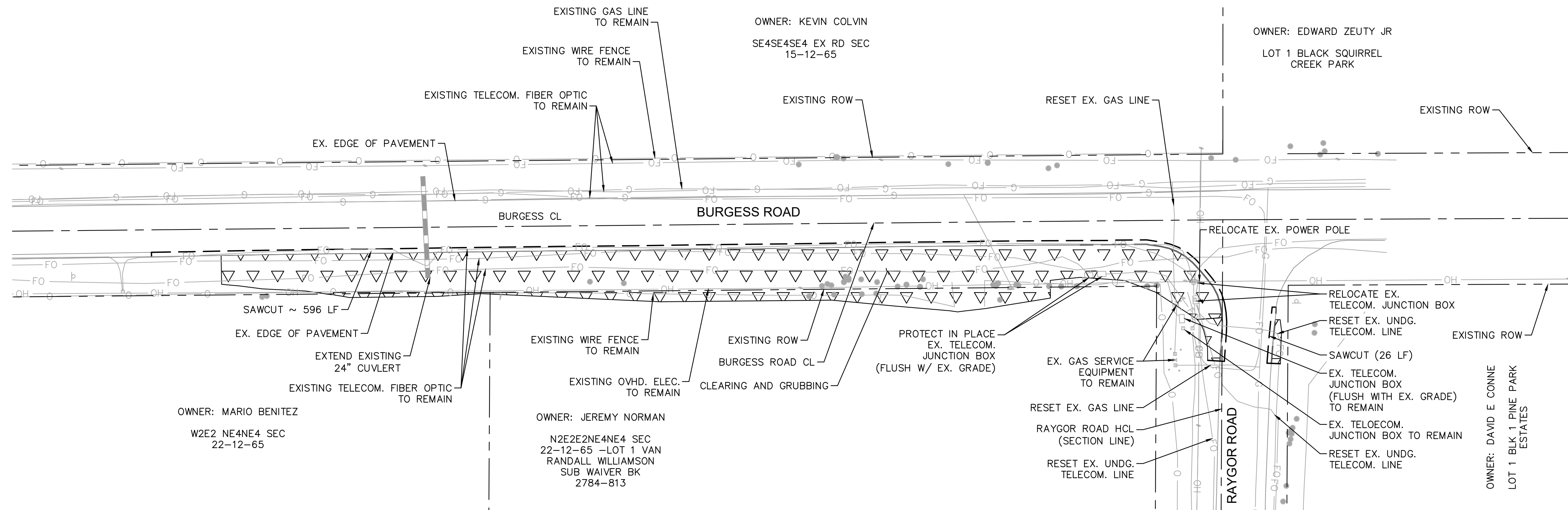
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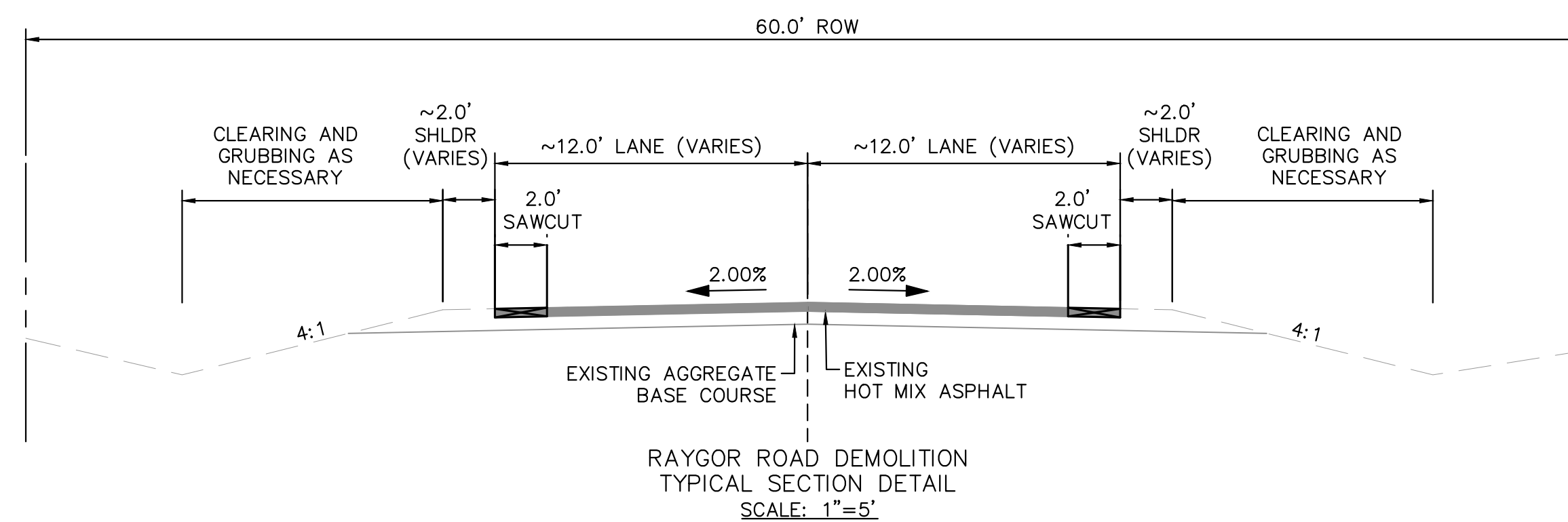
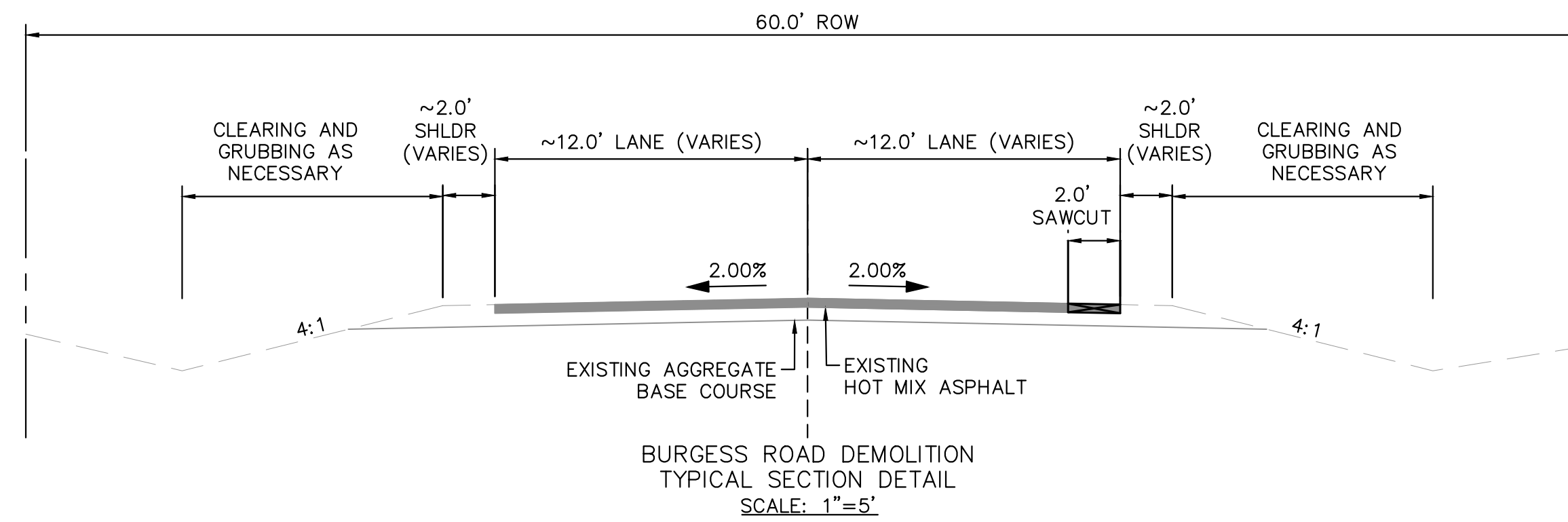
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LEGEND

- PROPERTY/LOT LINE
- ROW LINE
- SAWCUT (2.0' OFF EXISTING EDGE OF PAVEMENT)
- EX. CULVERT
- EX. TELECOM. FIBER OPTIC
- x x EX. GAS LINE
- EX. OVHD ELECTRIC
- o EX. WIRE FENCE
- ▽▽▽▽ CLEARING AND GRUBBING

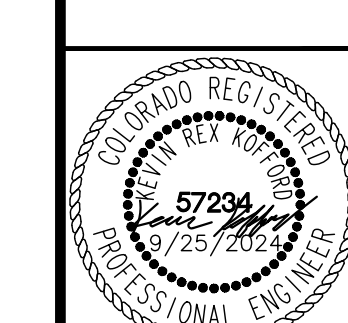


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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
BURGESS REMOVE & RESET PLAN

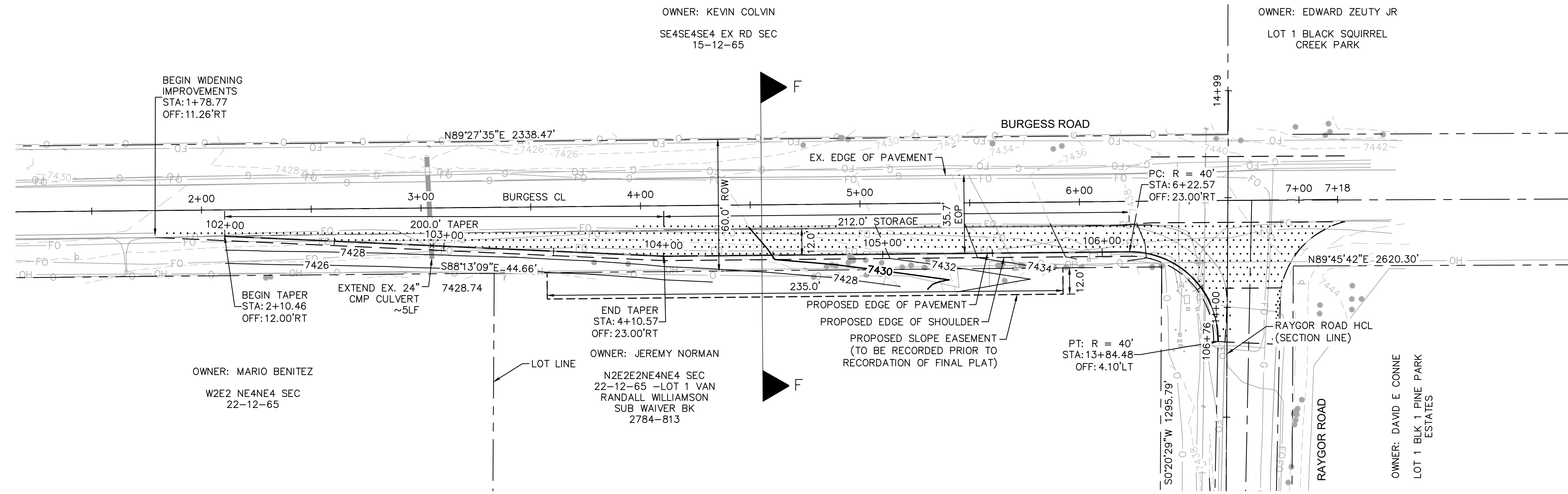


PROJECT NO.
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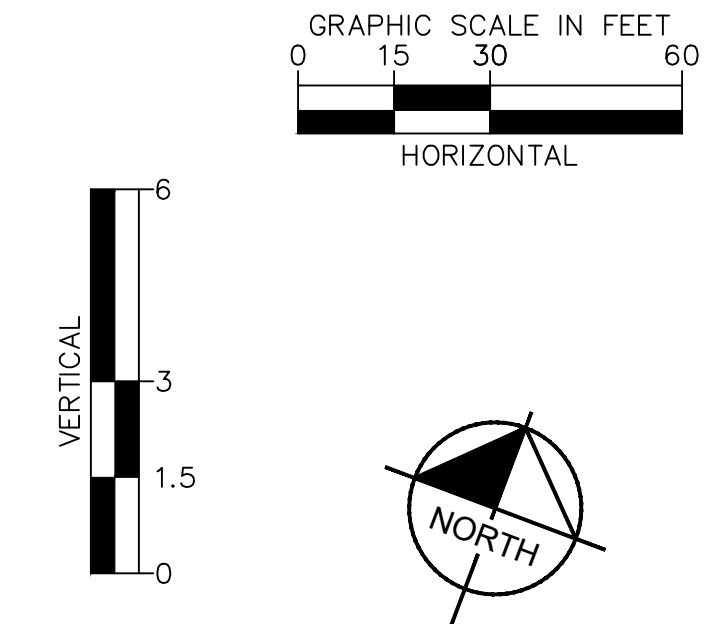
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BURGESS ROAD - RT EOP PLAN VIEW
STA: 2+00 - 6+50

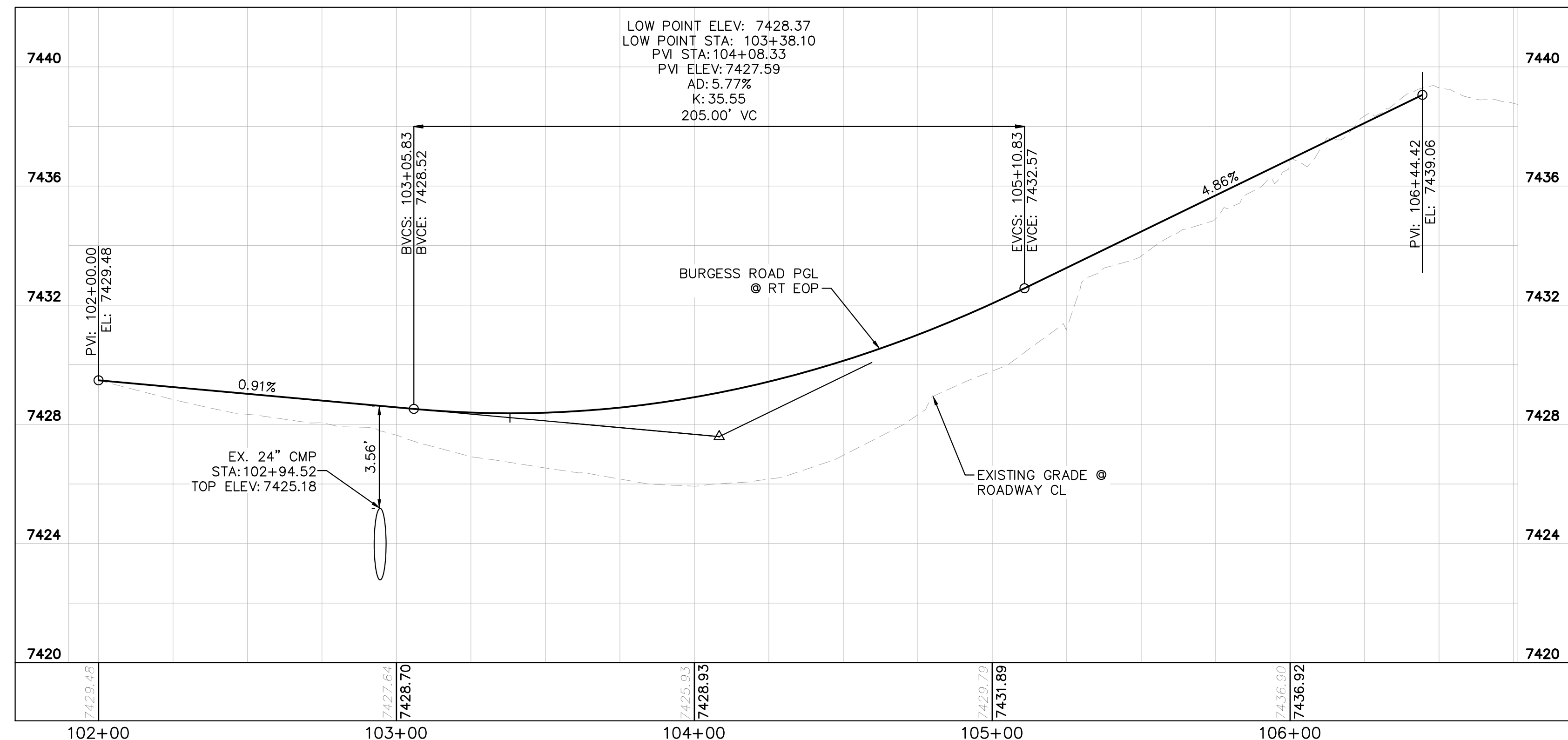


LEGEND

	PROPERTY/LOT LINE
	ROW LINE
	UTILITY EASEMENT LINE
	LOT NUMBER
	PROPOSED DRAINAGE EASEMENT
	CROSS SECTION (SEE SHEET C1.1)
	PROPOSED CULVERT
	EXISTING CULVERT
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SAWCUT
	PROPOSED EDGE OF PAVEMENT
	PROPOSED EDGE OF SHOULDER
	PROPOSED ASPHALT PAVEMENT

NOTES

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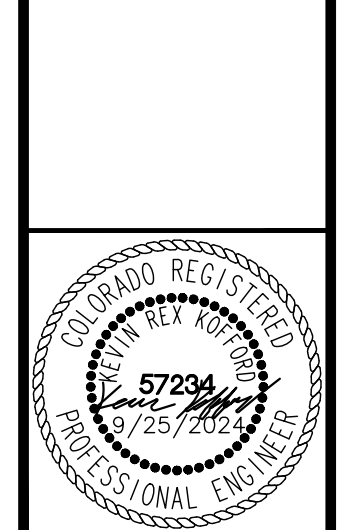
BURGESS ROAD - RT EOP PROFILE
STA: 2+00 - 6+50

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EAGLEVIEW
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BURGESS PLAN & PROFILE

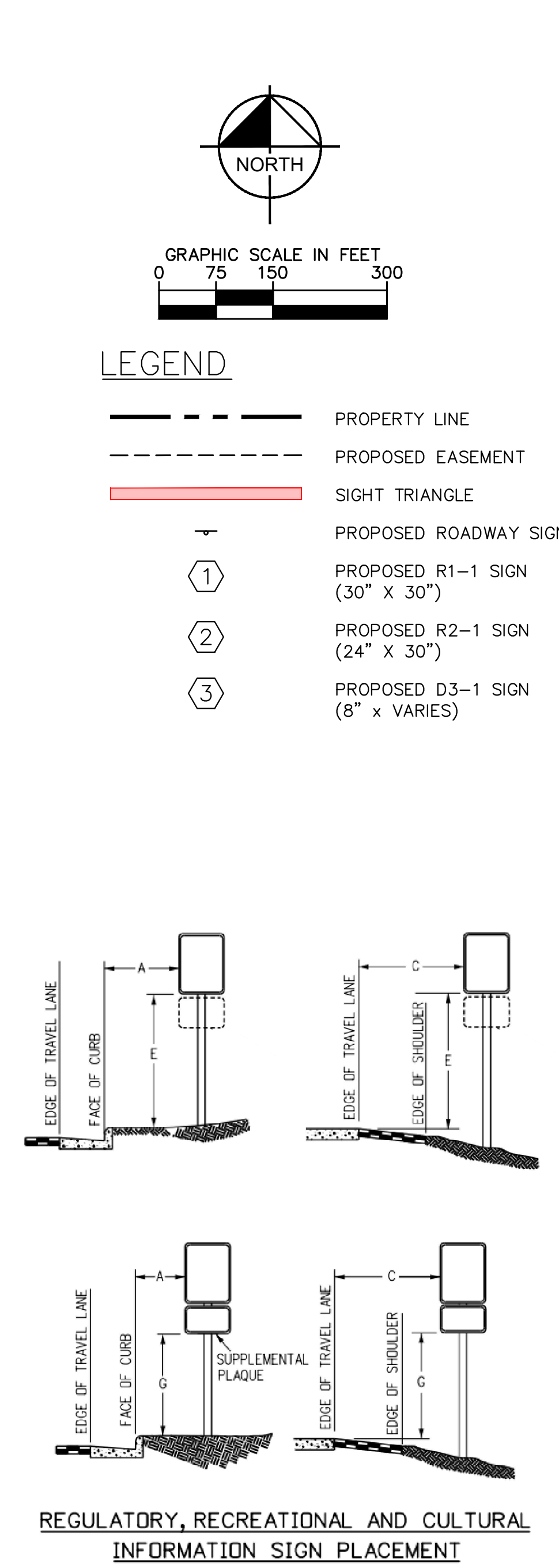
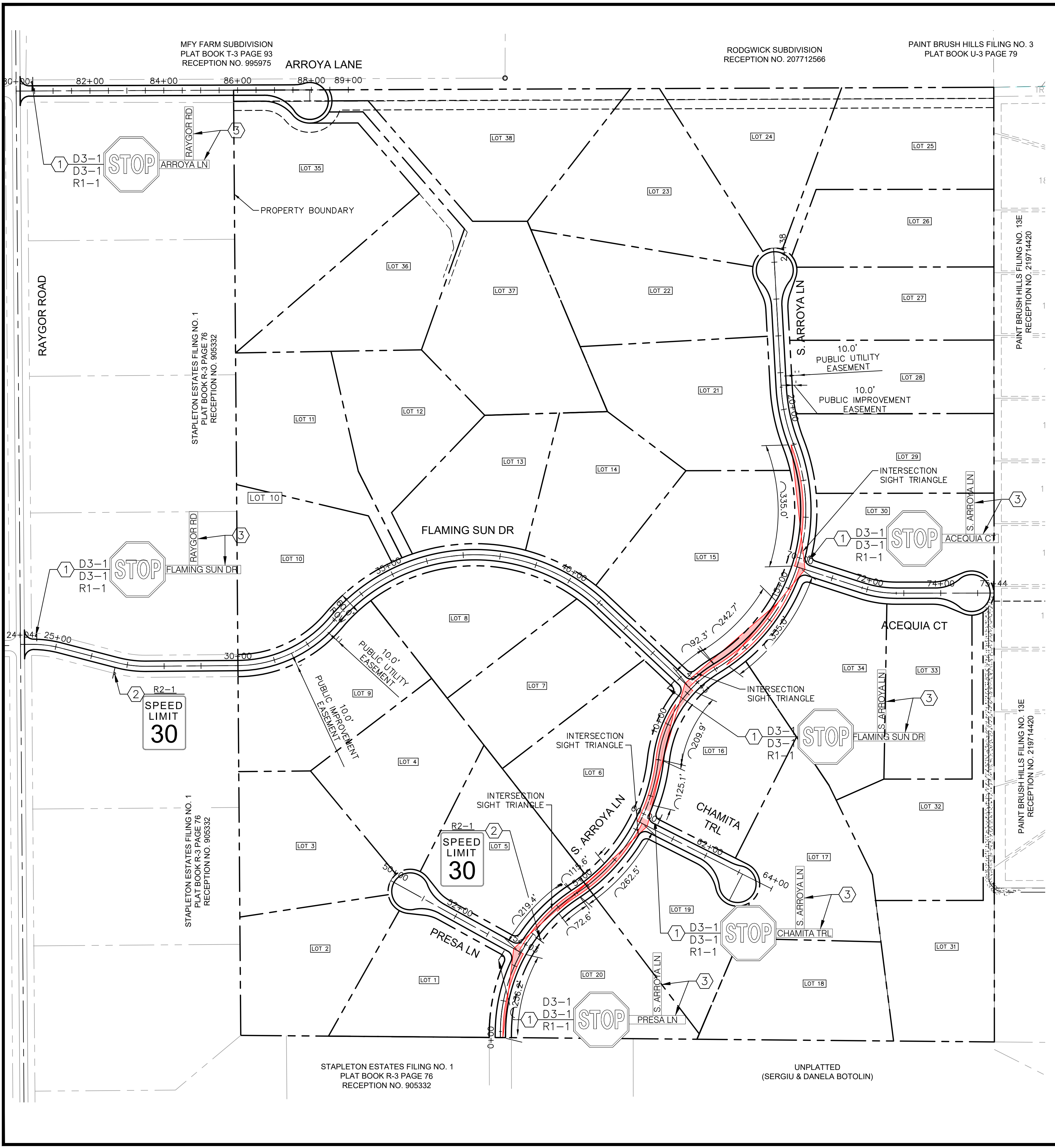


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SIGNING AND STRIPING NOTES

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

NO.	REVISION	BY	DATE	APPR

Kimley»Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MK
DRAWN BY: RS
CHECKED BY: KK
DATE: 08/05/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT GESC PLAN
ON-SITE STRIPING & SIGNAGE PLAN

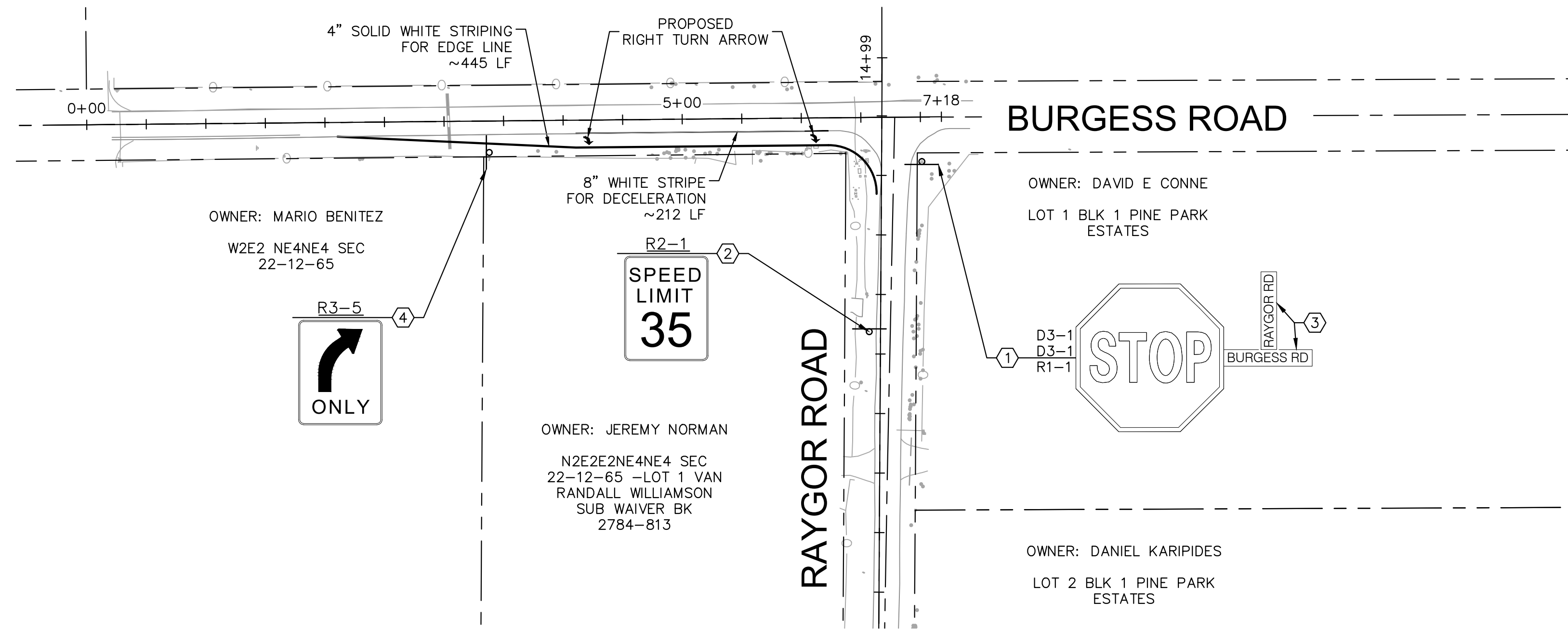
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CONSTRUCTION

Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196288000

SHEET
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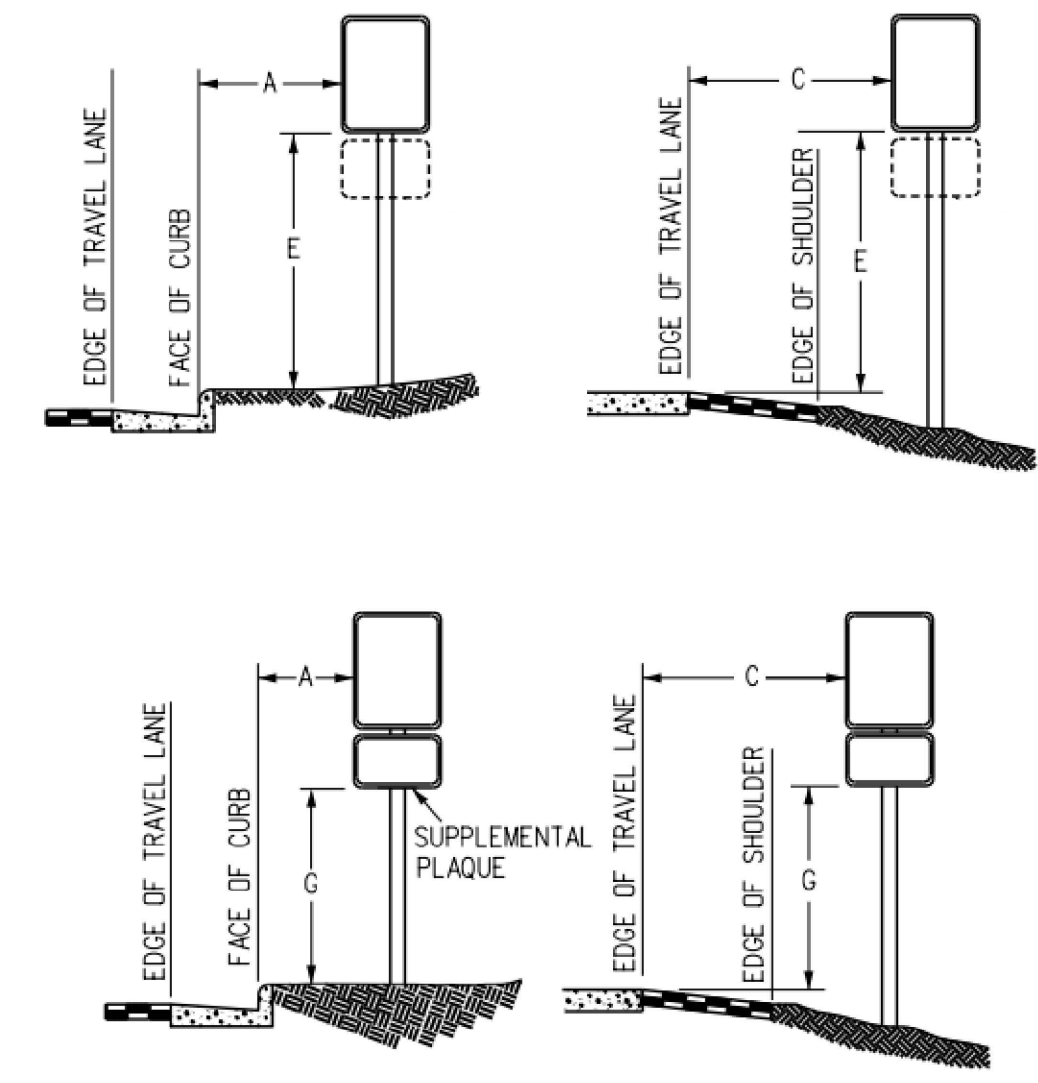


LEGEND

- PROPERTY LINE
- - - - PROPOSED EASEMENT
- PROPOSED ROADWAY SIGN
- ① PROPOSED R1-1 SIGN (30" X 30")
- ② PROPOSED R2-1 SIGN (24" X 30")
- ③ PROPOSED D3-1 SIGN (8" X VARIES)
- ④ PROPOSED R3-5 SIGN (24" X 30")

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		FREEWAYS AND EXPRESSWAYS		CONVENTIONAL STREETS AND HIGHWAYS				
	MINIMUM	NORMAL	MIN.	MAX.	URBAN		RURAL		
A	2'-0"	15'-0" PLUS CURB	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
B	2'-0"	30'-0" OR MORE INCLUDES CURB	D	7'-0" OR NOTE NO. 9	12'-0"	7'-0"	8'-0"	5'-0"	8'-0"
C	2'-0"	6'-0" PLUS EDGE OF 6'+ WIDE SHOULDER. IF NONE, 15'-0" FROM EDGE OF TRAVEL LANE.	E	7'-0"	8'-0"	7'-0"	8'-0"	5'-0"	8'-0"
			F	8'-0" OR NOTE NO. 9	12'-0"	3'-0"	9'-0"	5'-0"	9'-0"
			G	6'-0"	7'-0"	3'-0"	7'-0"	4'-0"	7'-0"
			H	5'-0"	10'-0"	3'-0"	7'-0"	4'-0"	7'-0"

DATE: APRR

BY:

REVISION:

NO.

Kimley»Horn
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MK
DRAWN BY: RS
CHECKED BY: KK
DATE: 08/05/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT GESC PLAN
OFF-SITE STRIPING & SIGNAGE PLAN

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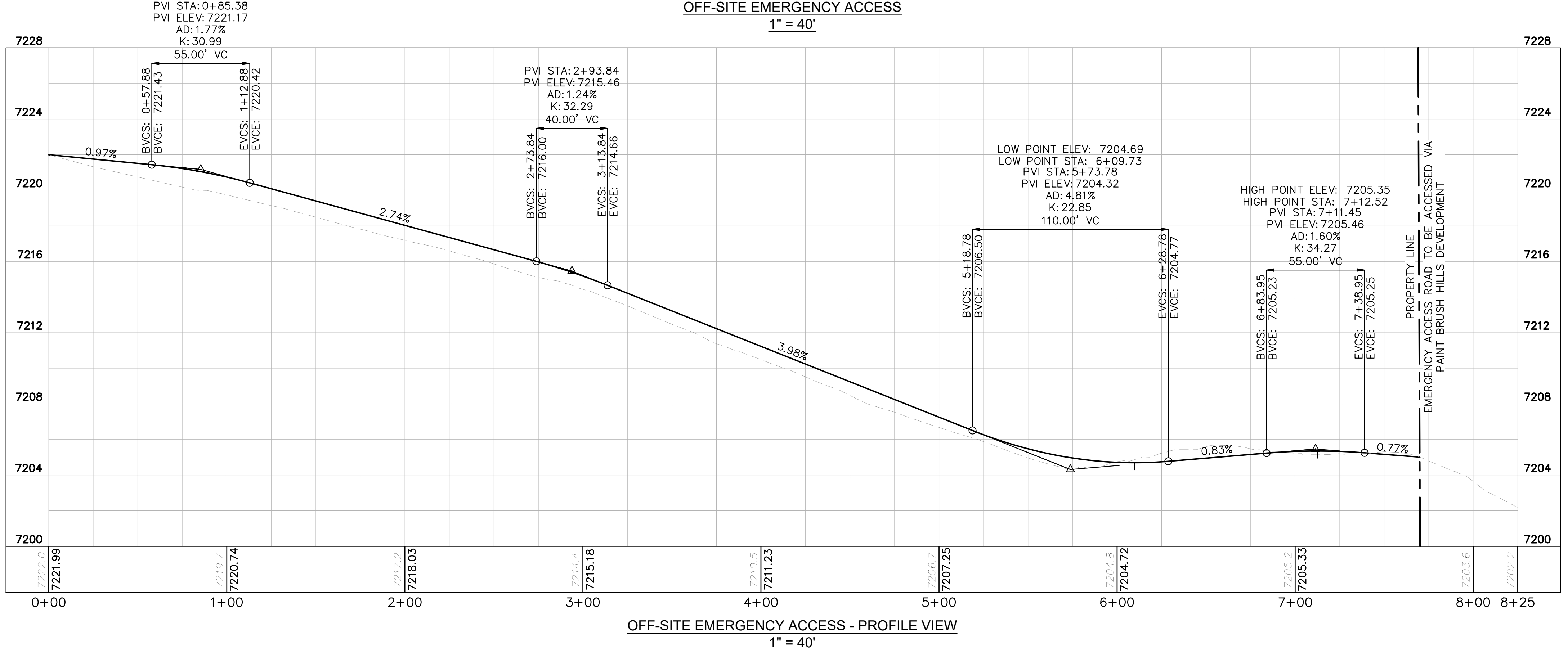
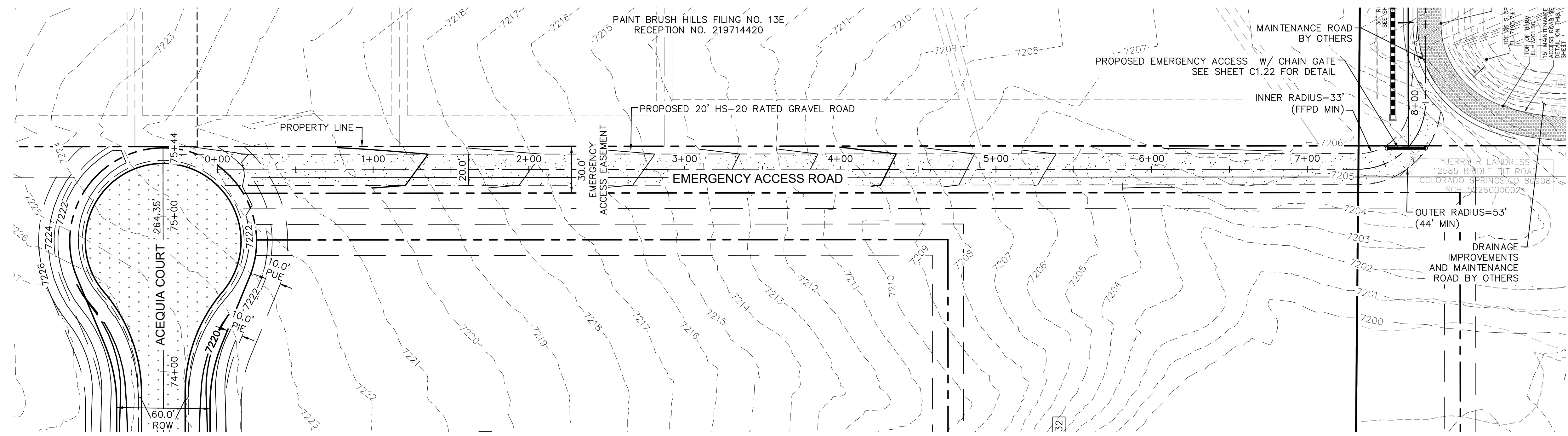
Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196288000

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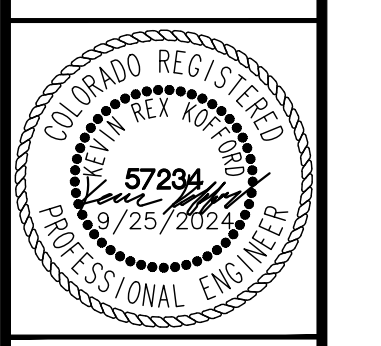


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Kimley Horn
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 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KRK
 DATE: 9/17/2024

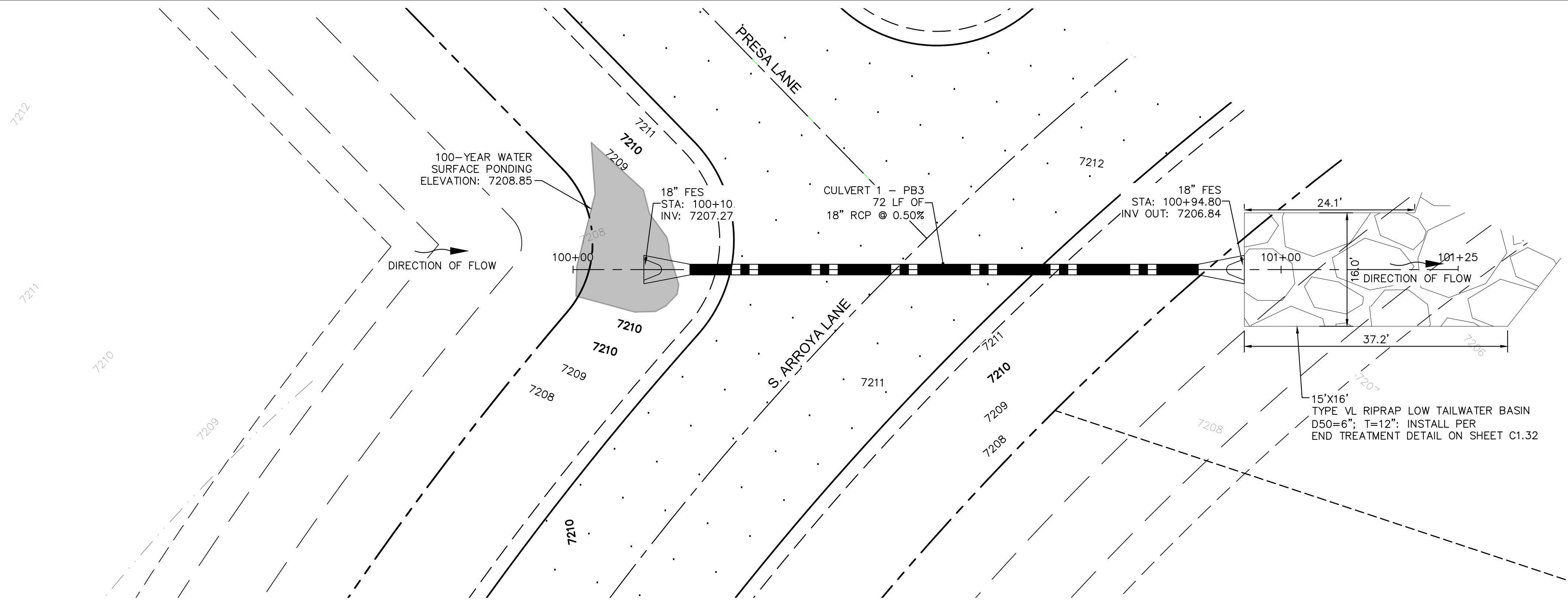
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 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
EMERGENCY ACCESS ROAD PLAN & PROFILE



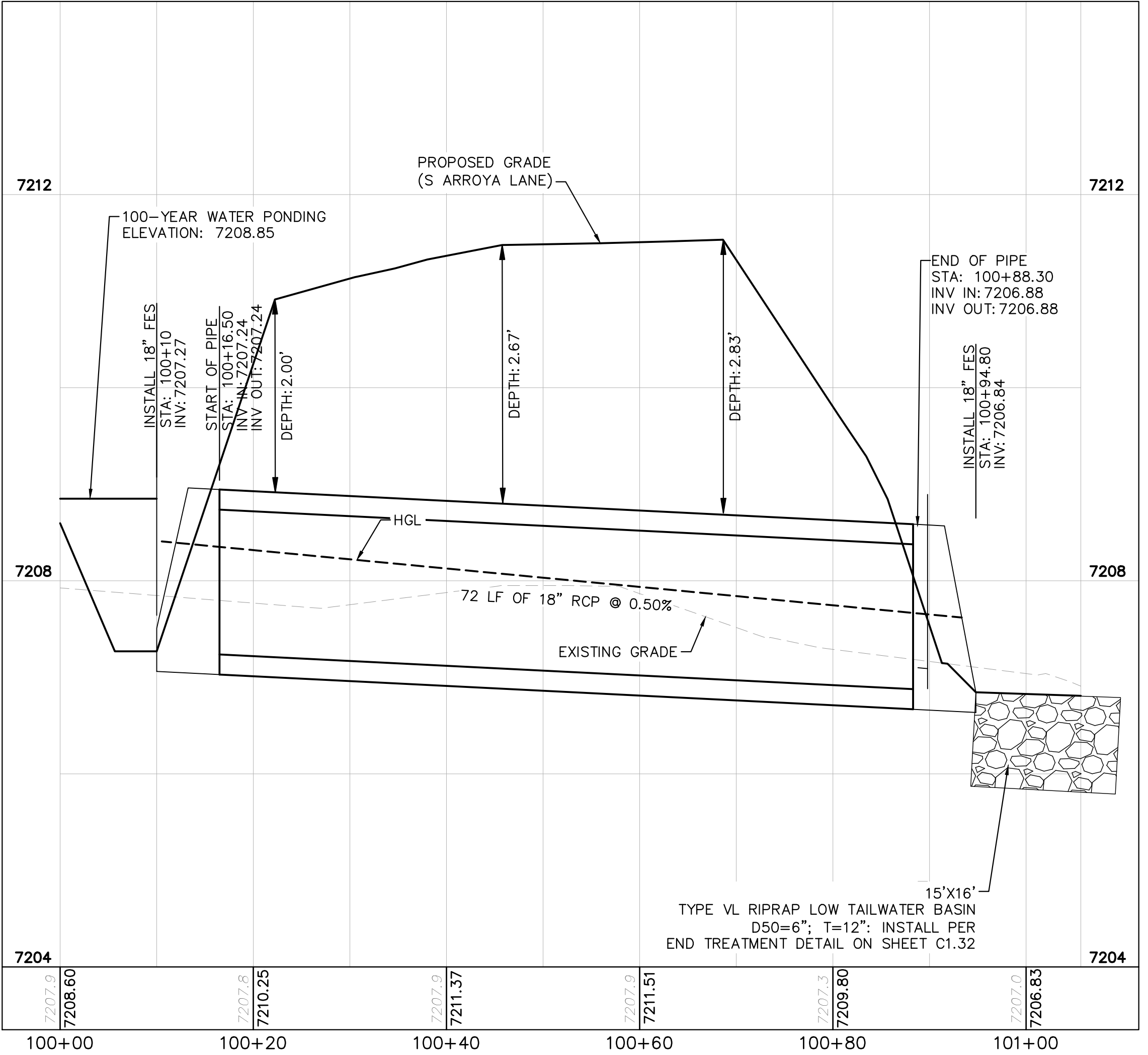
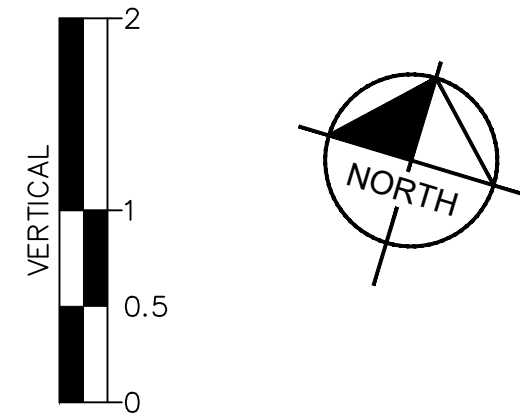
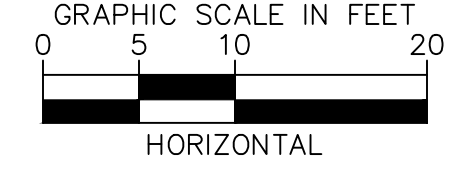
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**CULVERT 1 - BASIN PB3
PLAN VIEW**



**CULVERT 1 - BASIN PB3
PROFILE VIEW**

NOTES

1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
2. ASSUMED FLARED END SECTIONS (FES) LENGTHS ARE THE FOLLOWING:
6'-1": 18"-30" FES
8'-1": 30" FES
8'-2": 42"-48" FES

NO.	REVISION	BY	DATE	APPR.

Kimley»Horn

2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE



PROJECT NO.
196106001

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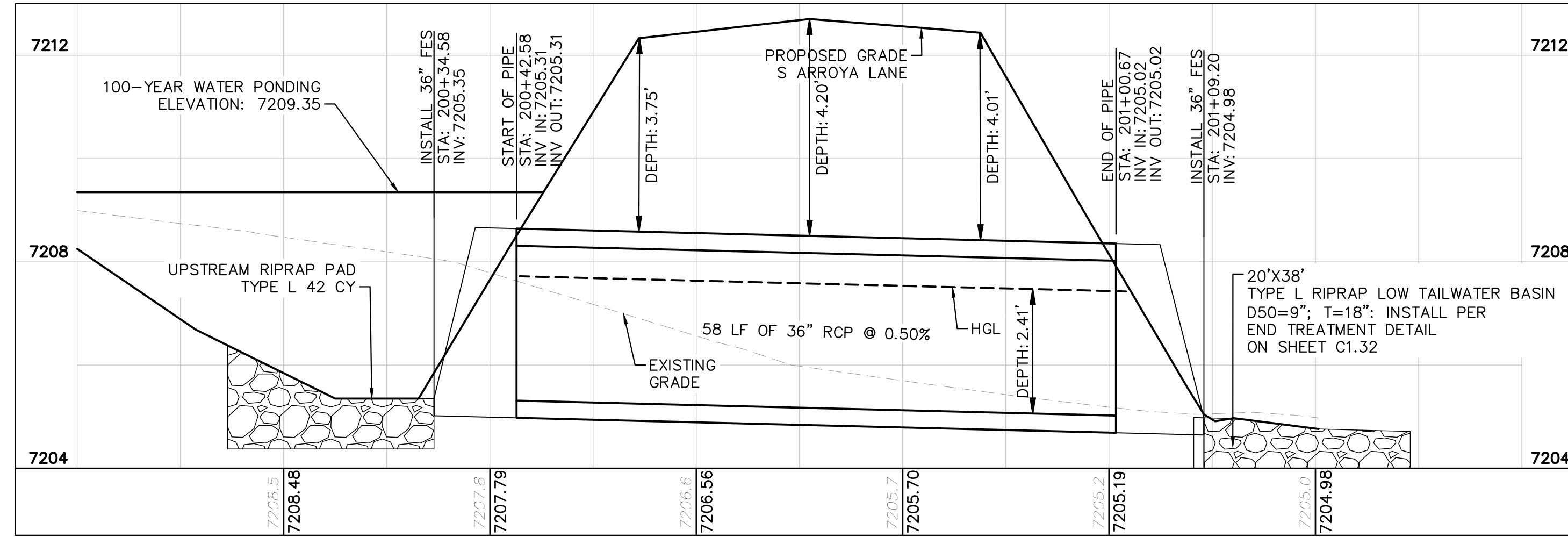
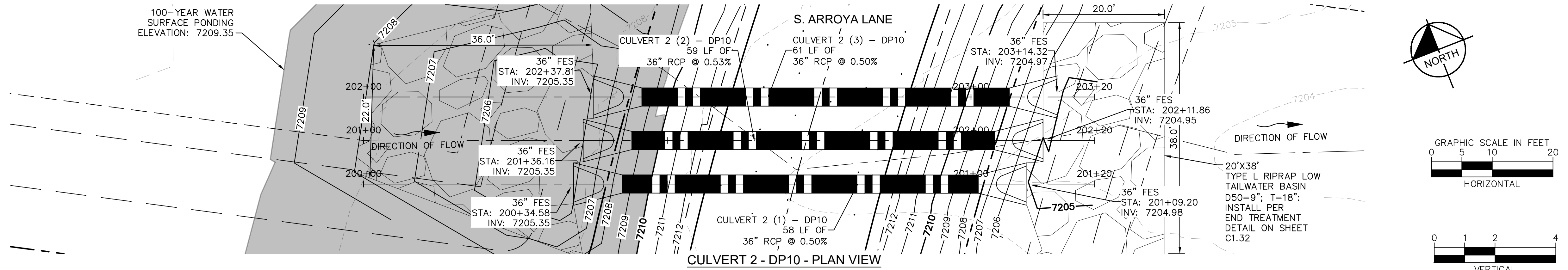
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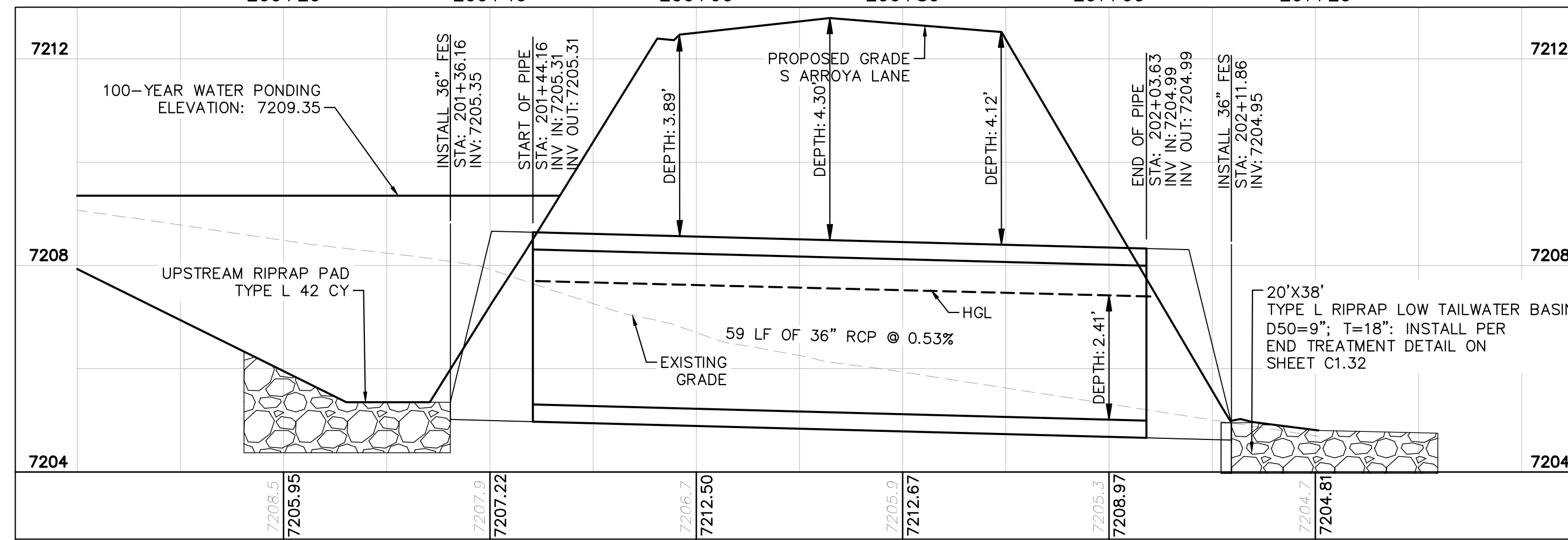
Know what's below.
Call before you dig.



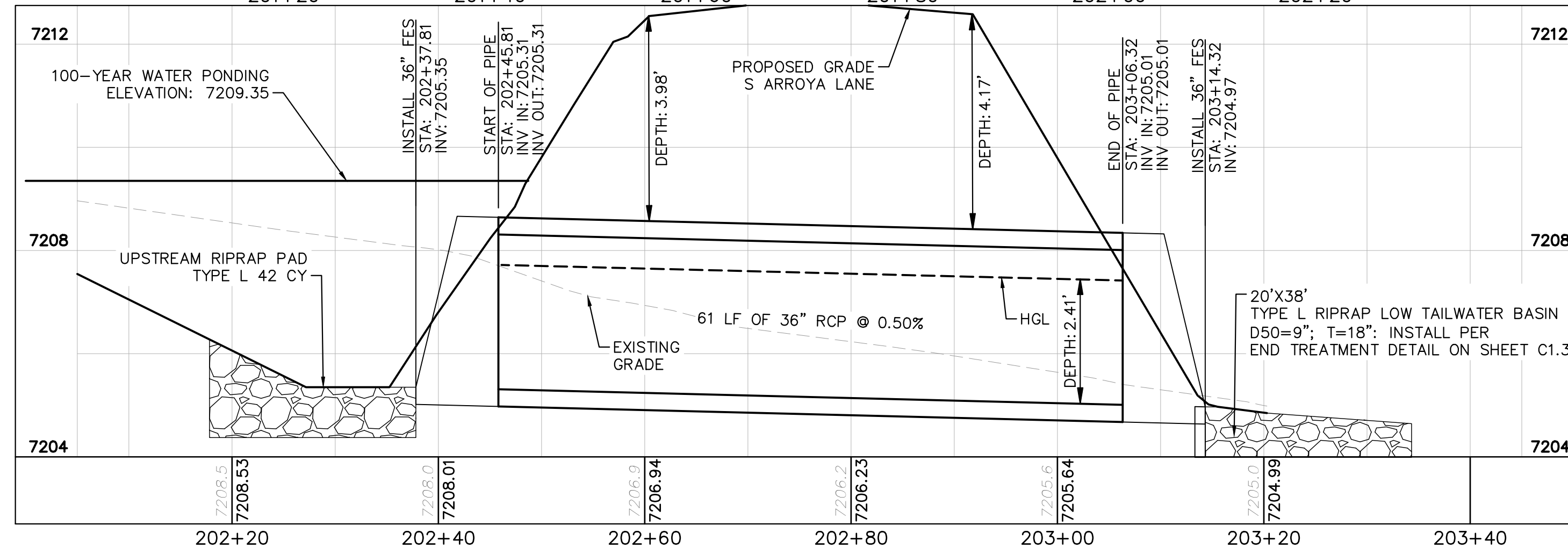
CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES



CULVERT 2 (1) - DP10
PROFILE VIEW



CULVERT 2 (2) - DP10
PROFILE VIEW



CULVERT 2 (3) - DP10
PROFILE VIEW

NOTES

- PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
- ASSUMED FLARED END SECTIONS (FES) LENGTHS ARE THE FOLLOWING:
6'-1": 18"-30" FES
8'-1": 30" FES
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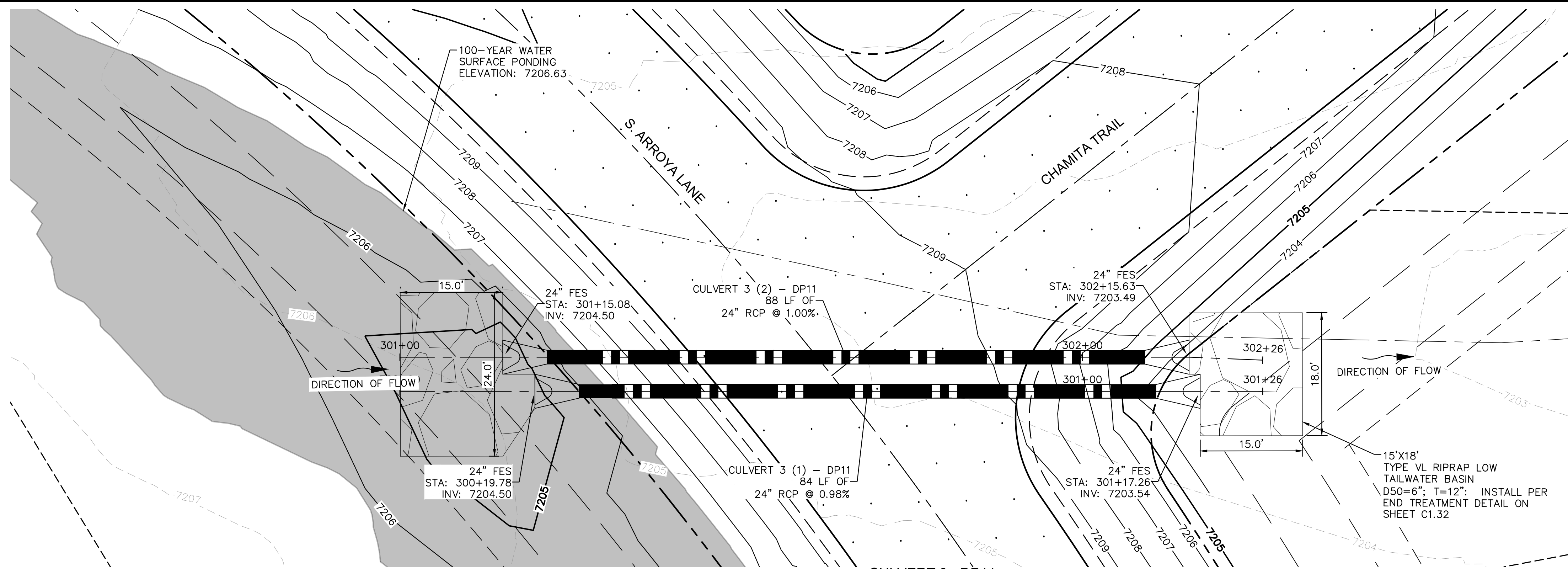
EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE



PROJECT NO.
196106001

SHEET

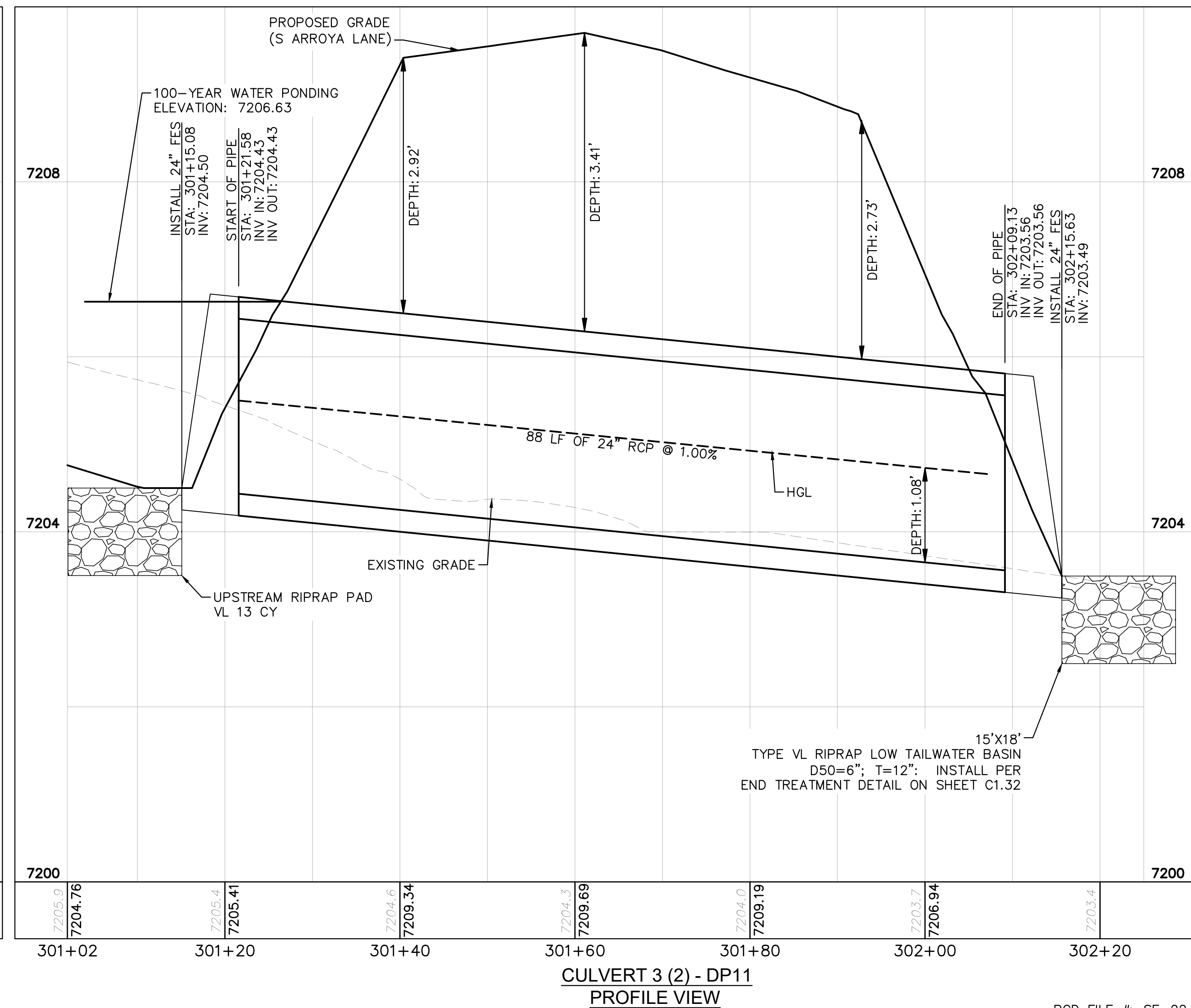
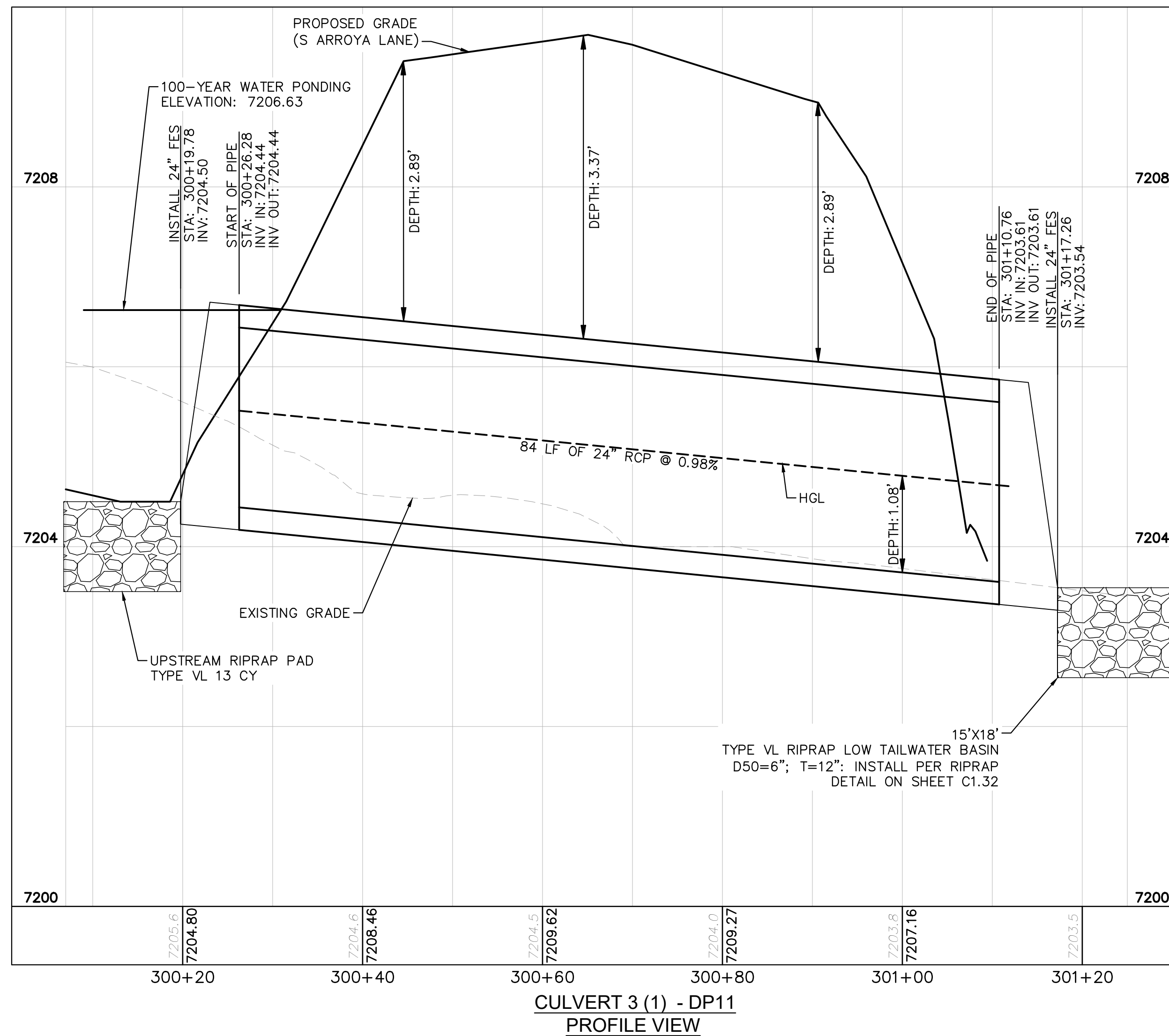
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CULVERT 3 - DP11
PLAN VIEW

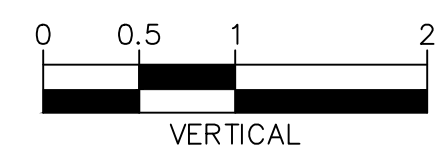
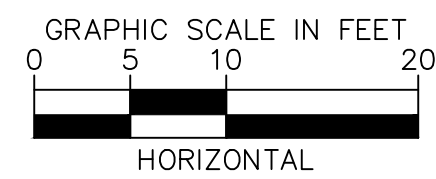
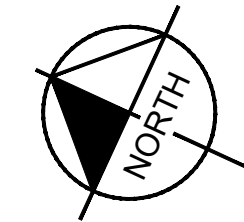
NOTES

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8'-1": 30" FES
8'-2": 42"-48" FES



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Kimley Horn

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2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE

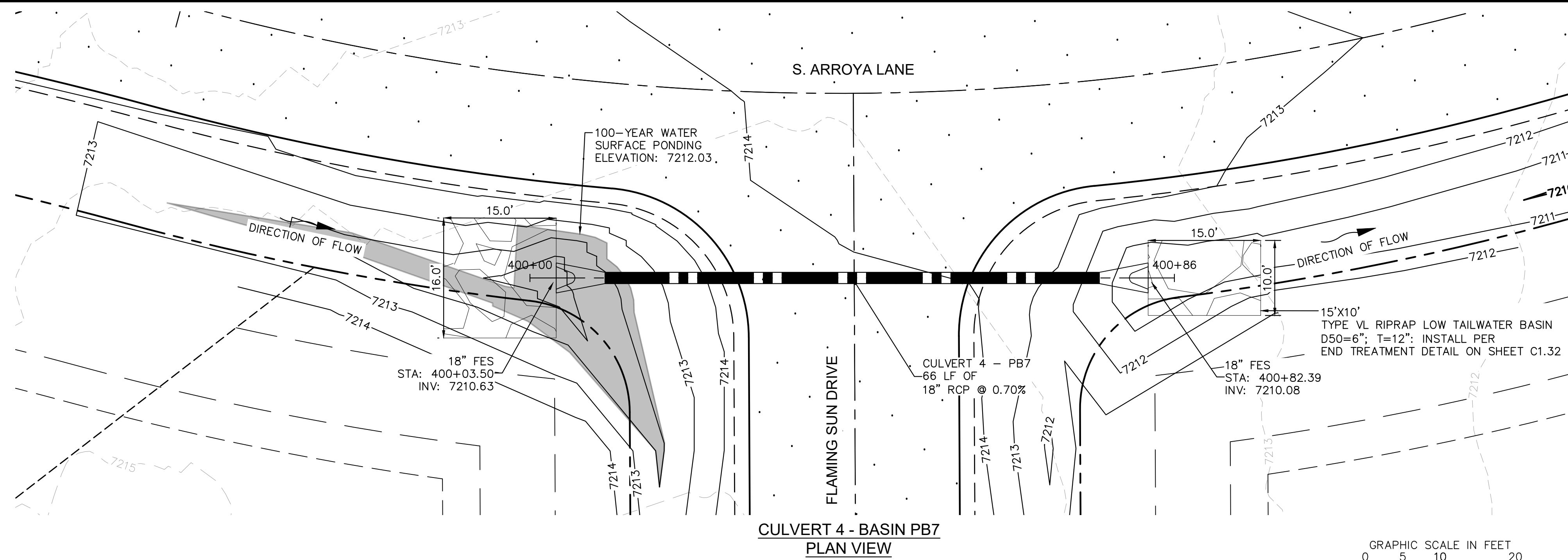


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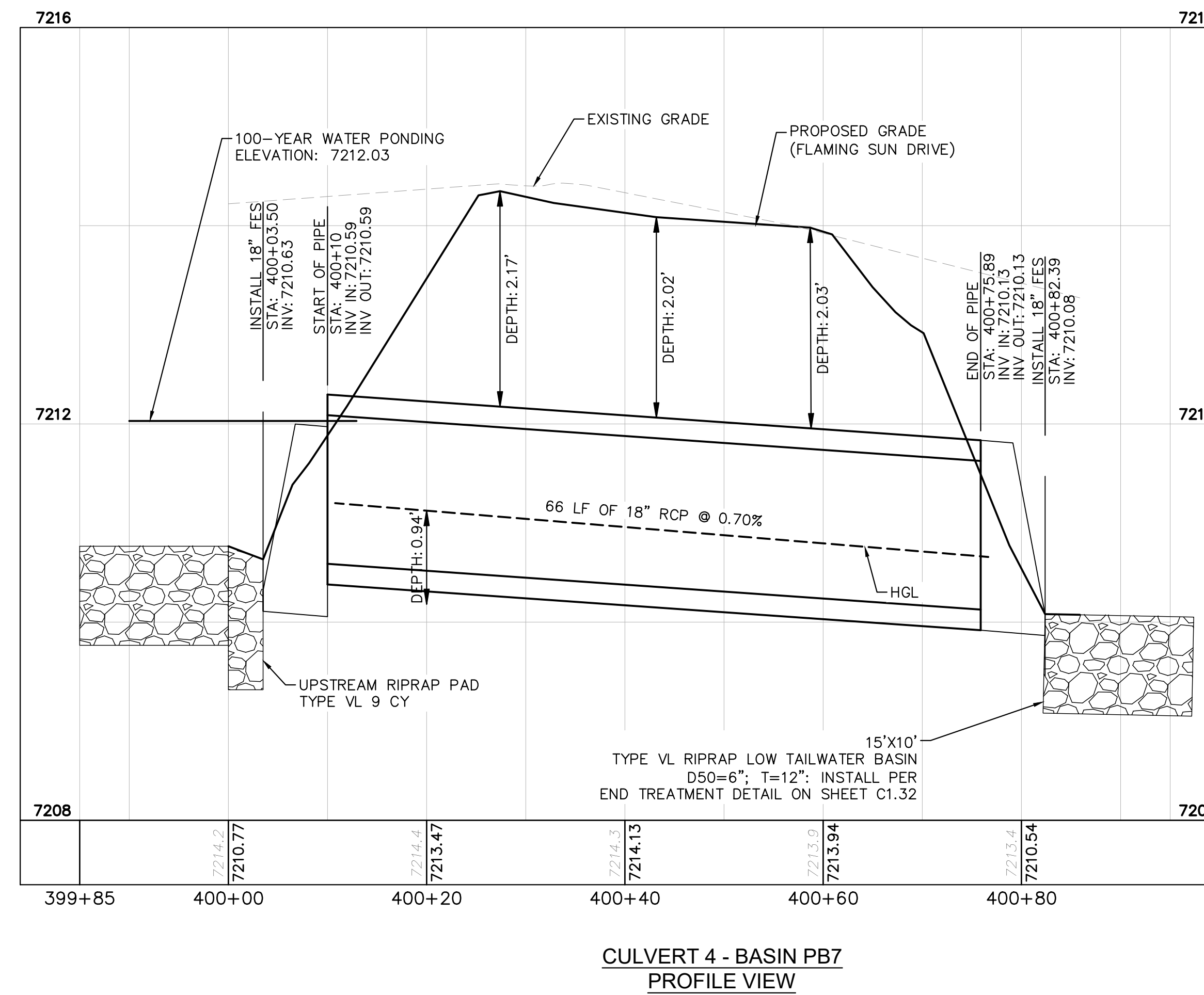
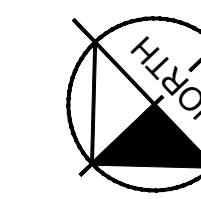
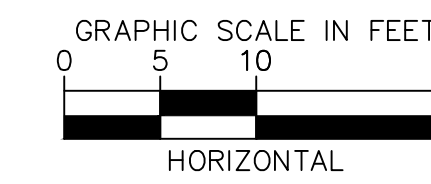
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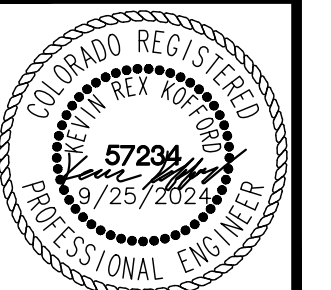
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2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE

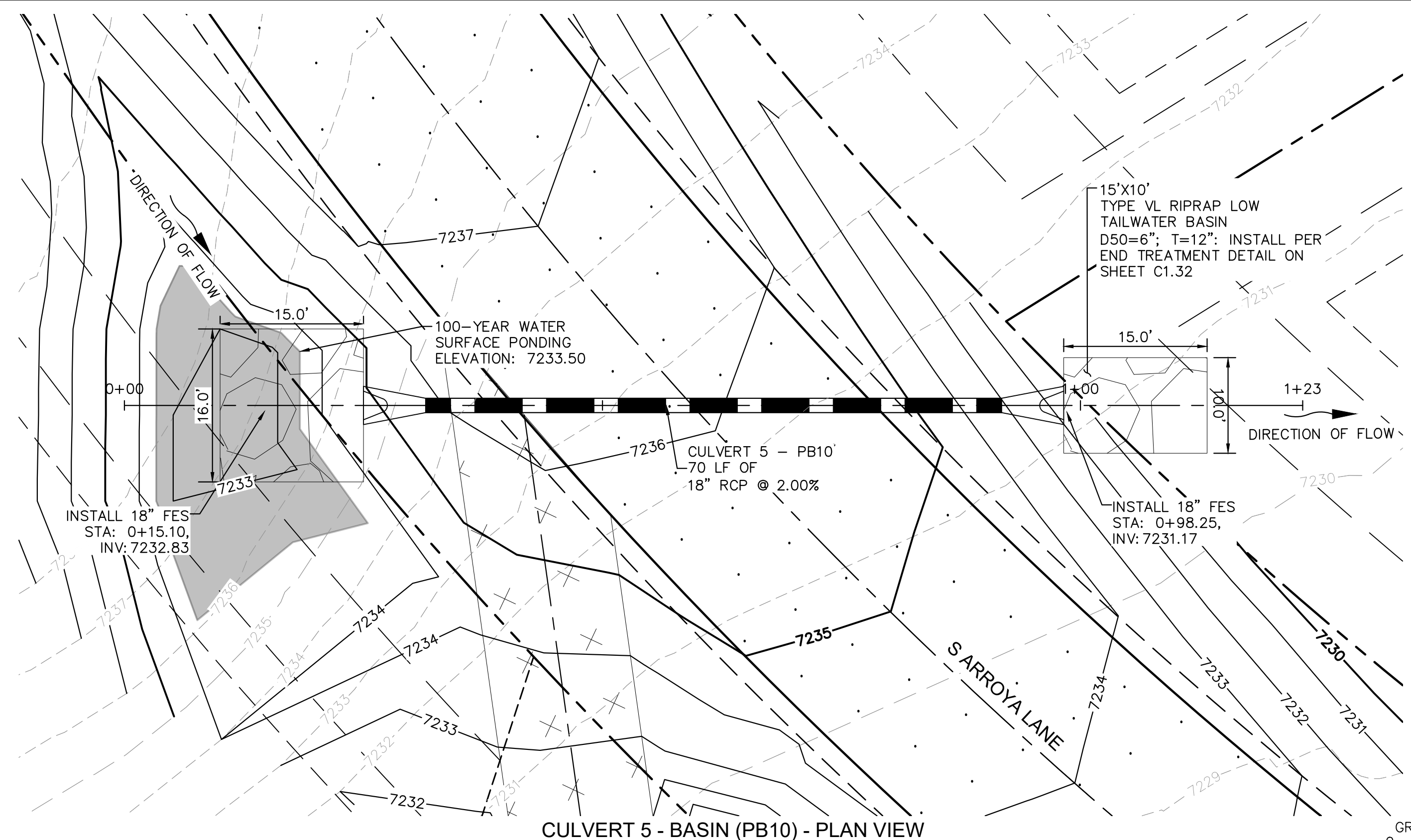


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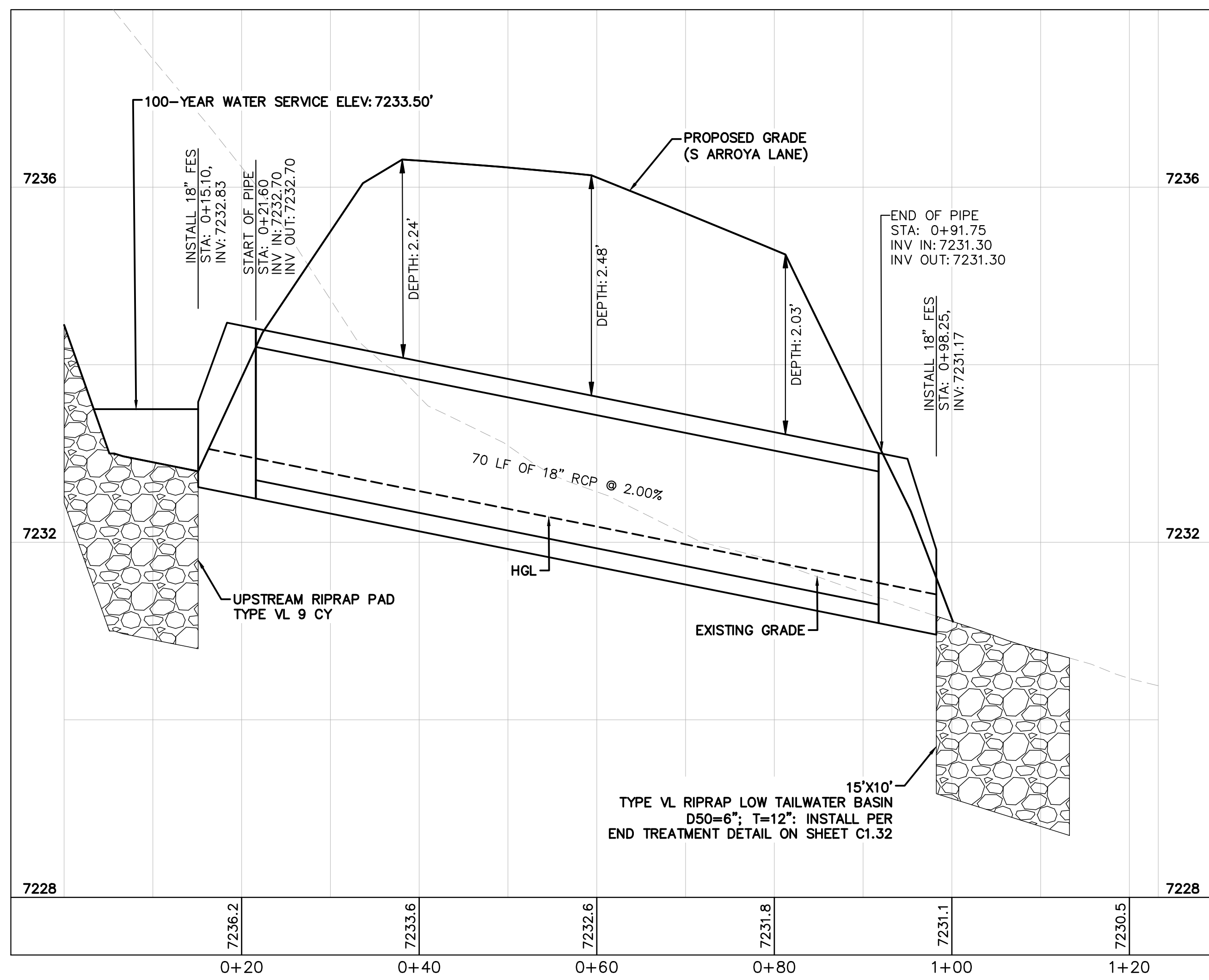
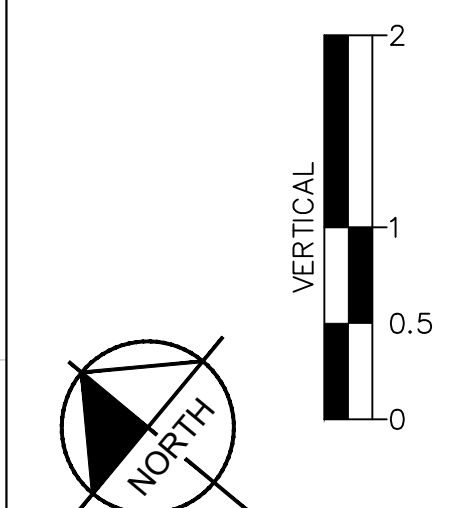
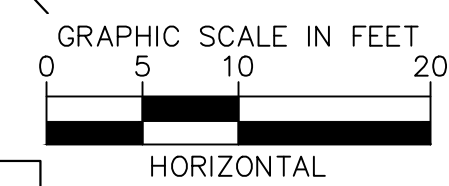
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CULVERT 5 - BASIN (PB10) - PLAN VIEW



CULVERT 5 - BASIN PB10 - PROFILE VIEW

NOTES

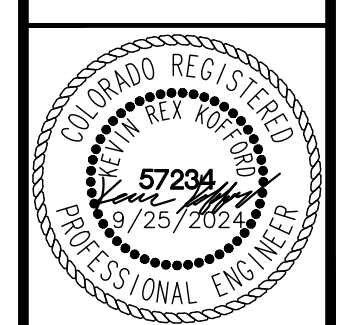
1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
2. ASSUMED FLARED END SECTIONS (FES) LENGTHS ARE THE FOLLOWING:
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EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE

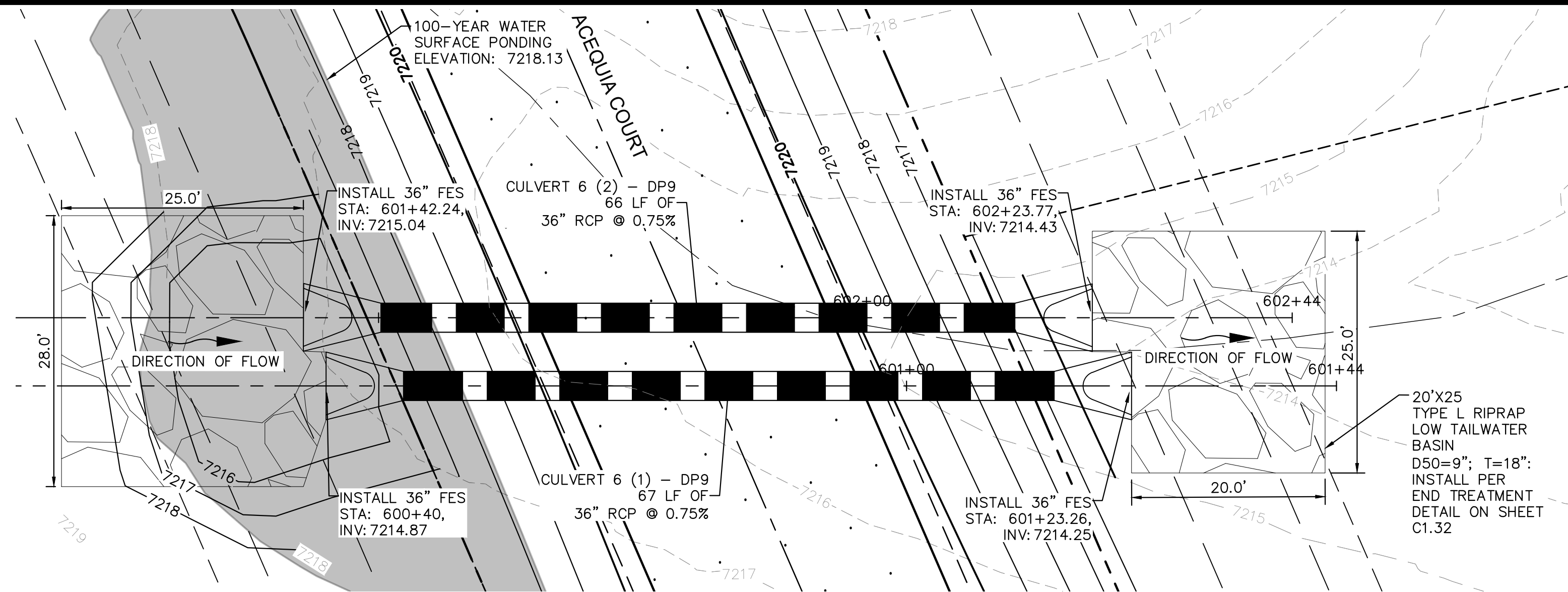


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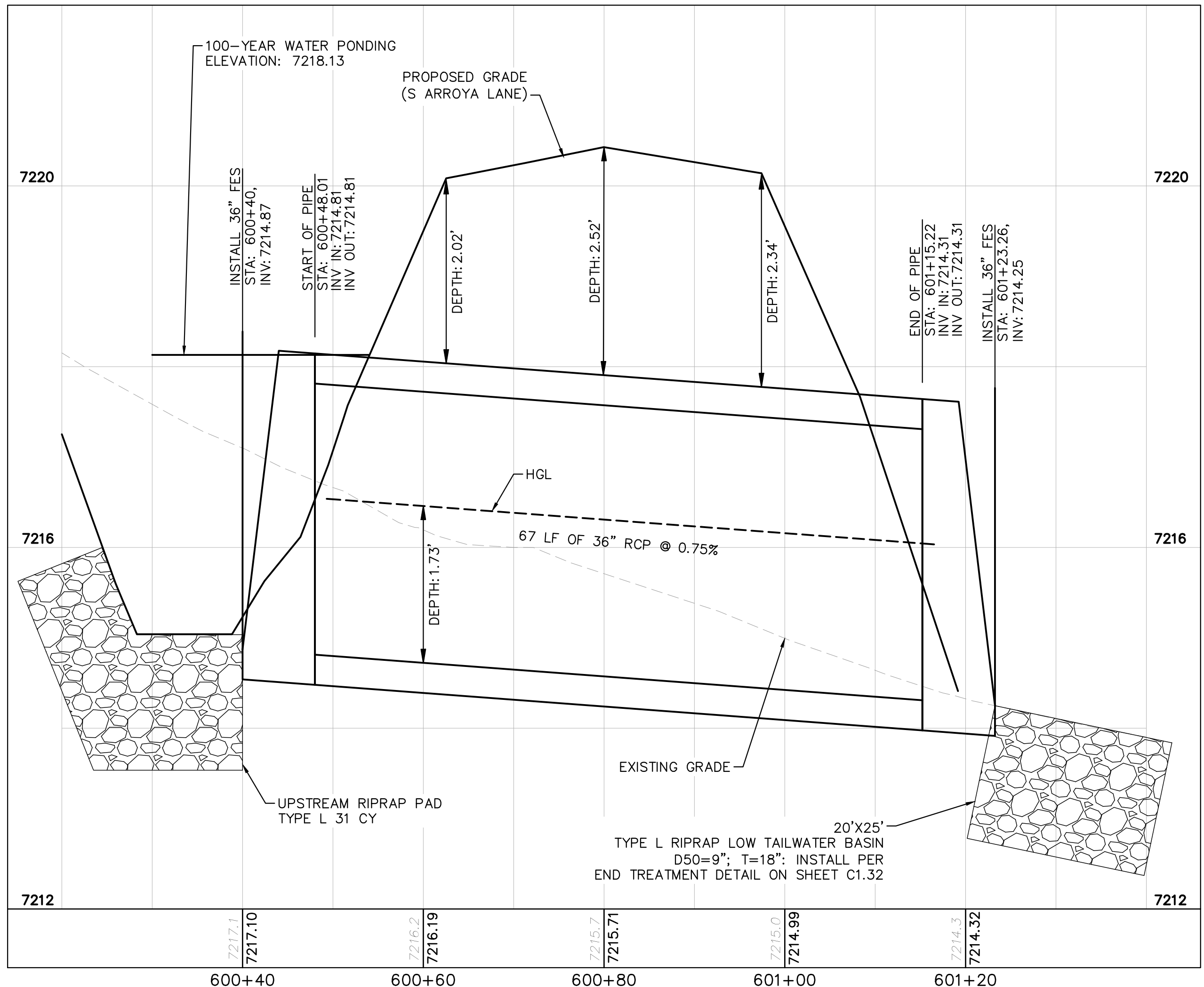


CULVERT 6 - DP9
PLAN VIEW

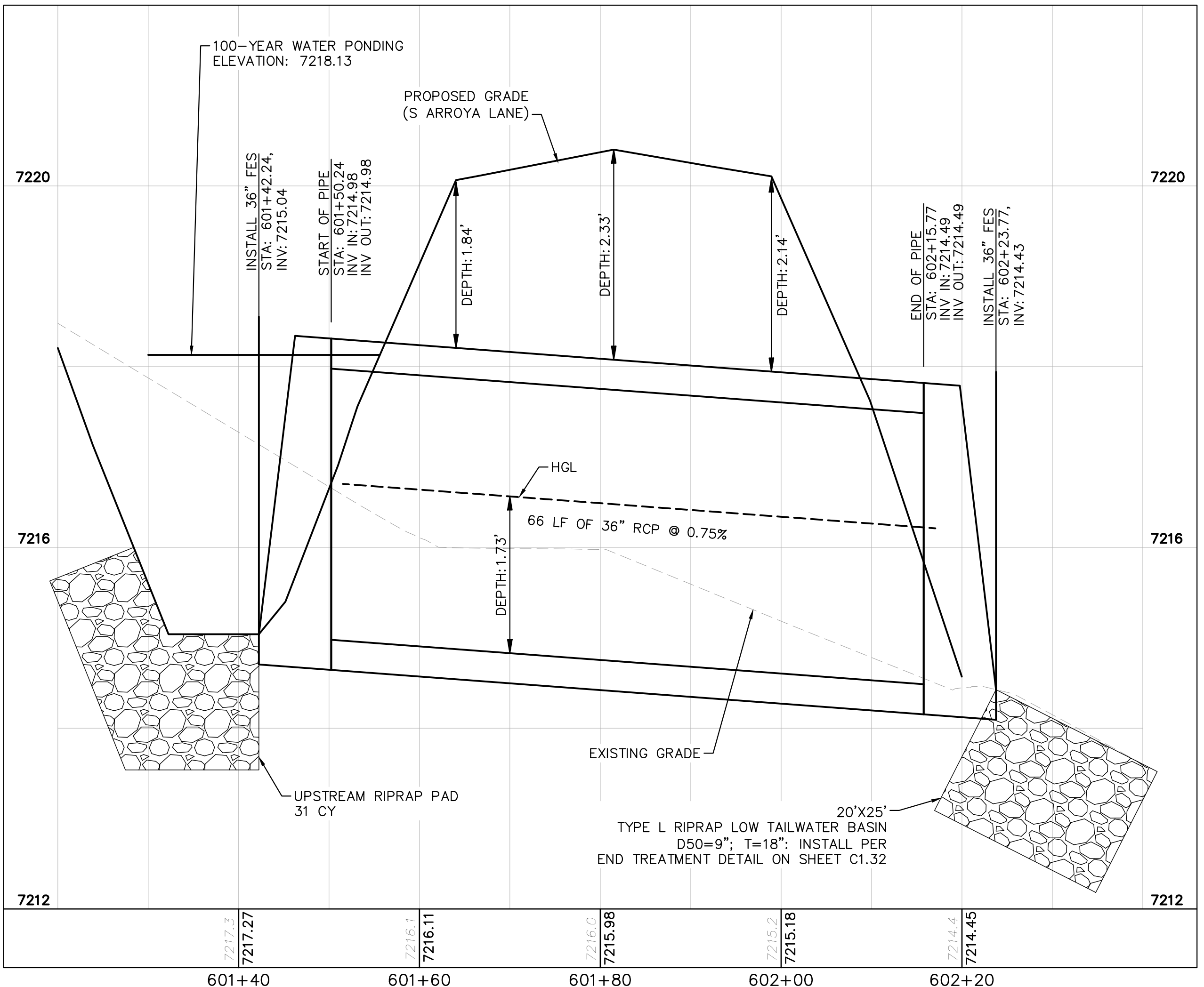
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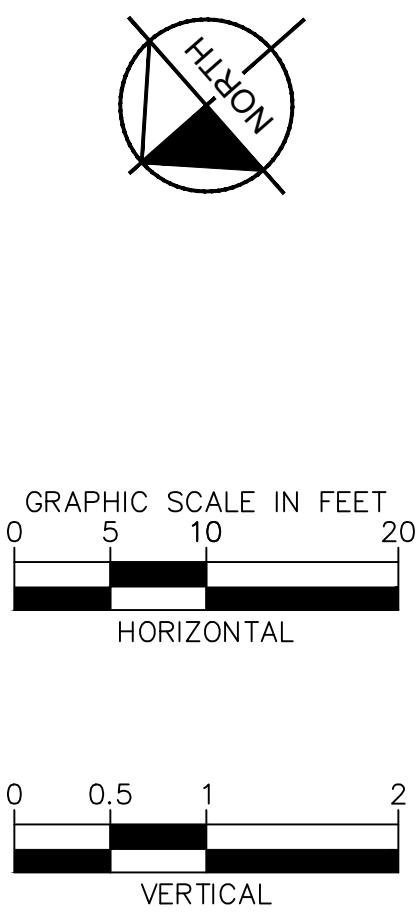
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D50=9"; T=18";
INSTALL PER END TREATMENT DETAIL ON SHEET C1.32



CULVERT 6 (1) - DP9
PROFILE VIEW



CULVERT 6 (2) - DP9
PROFILE VIEW



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Colorado Springs, Colorado 80903 (719) 453-0180

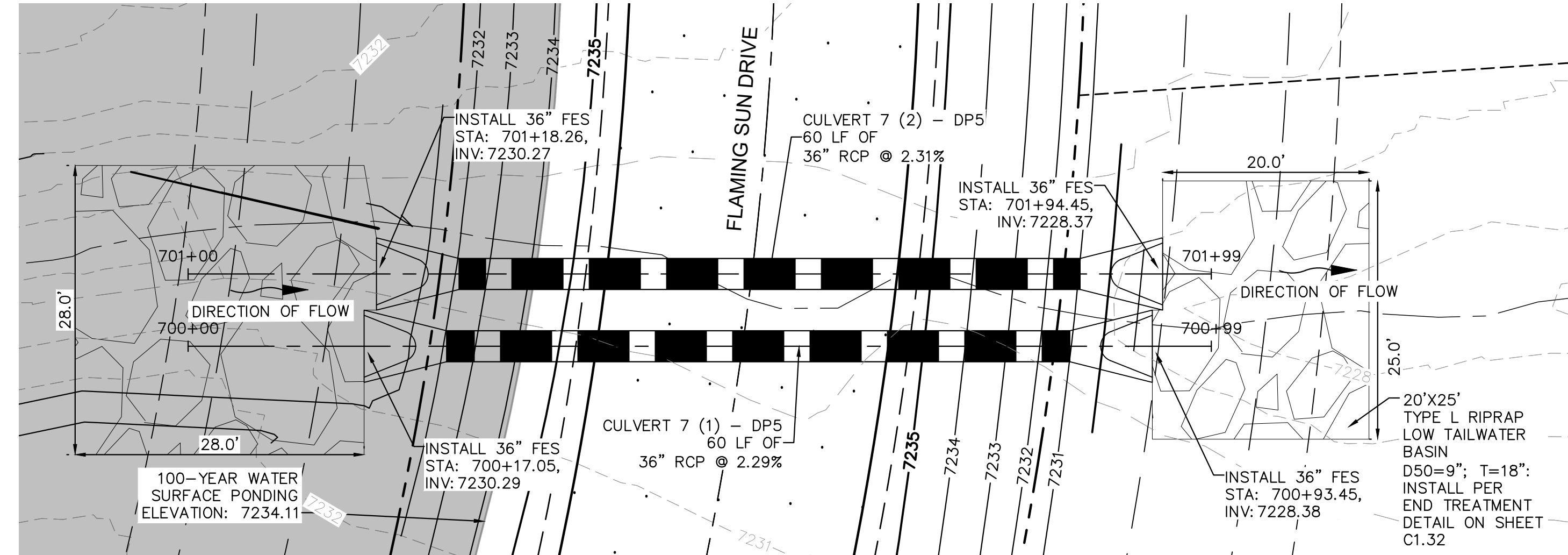
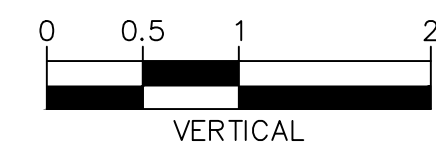
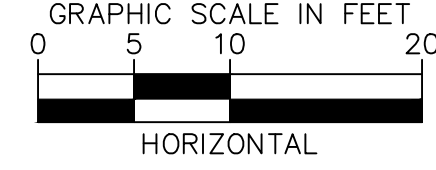
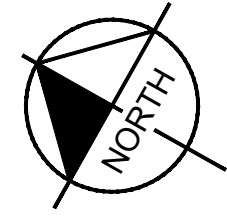
DESIGNED BY: MJK
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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE



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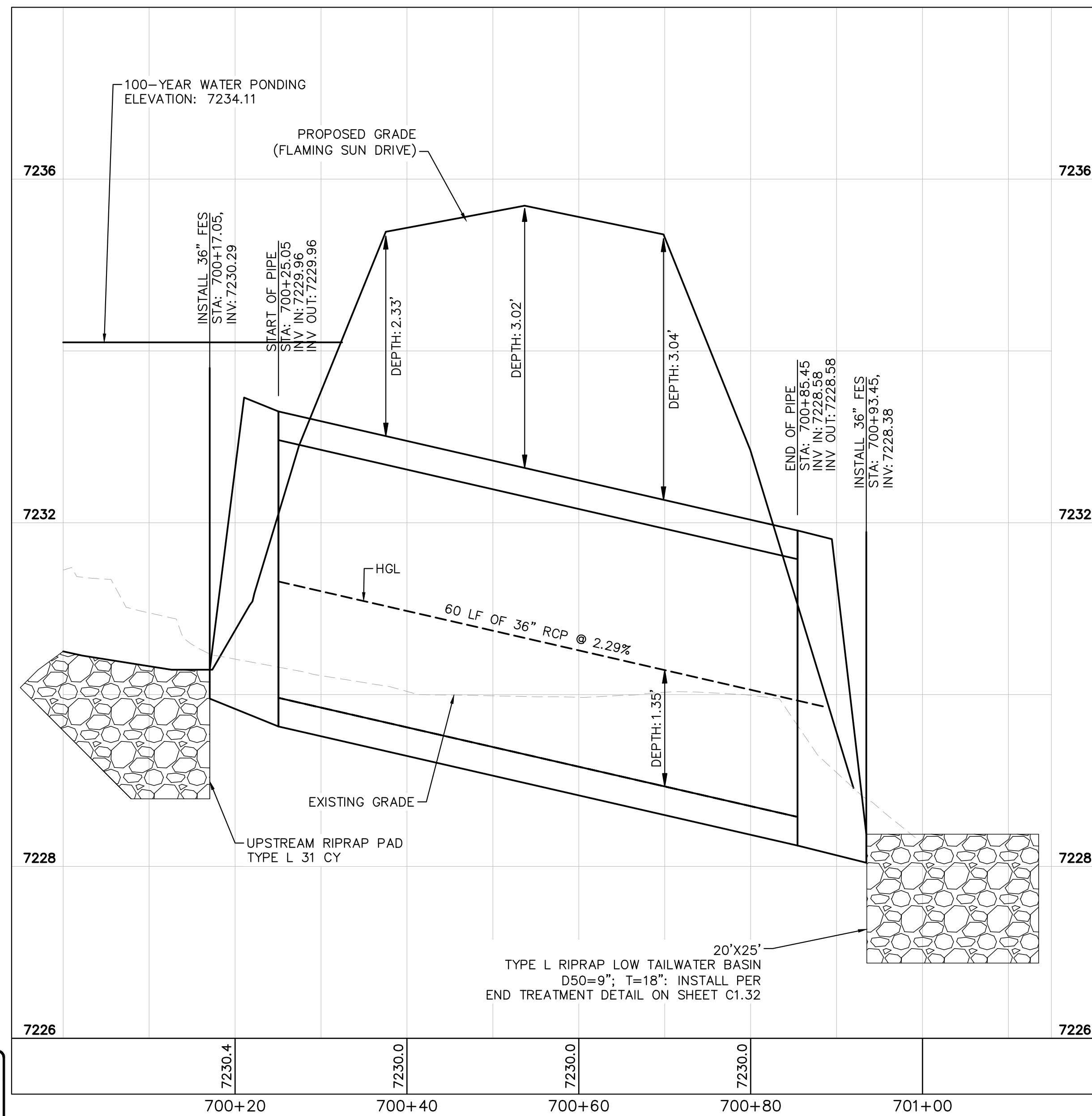
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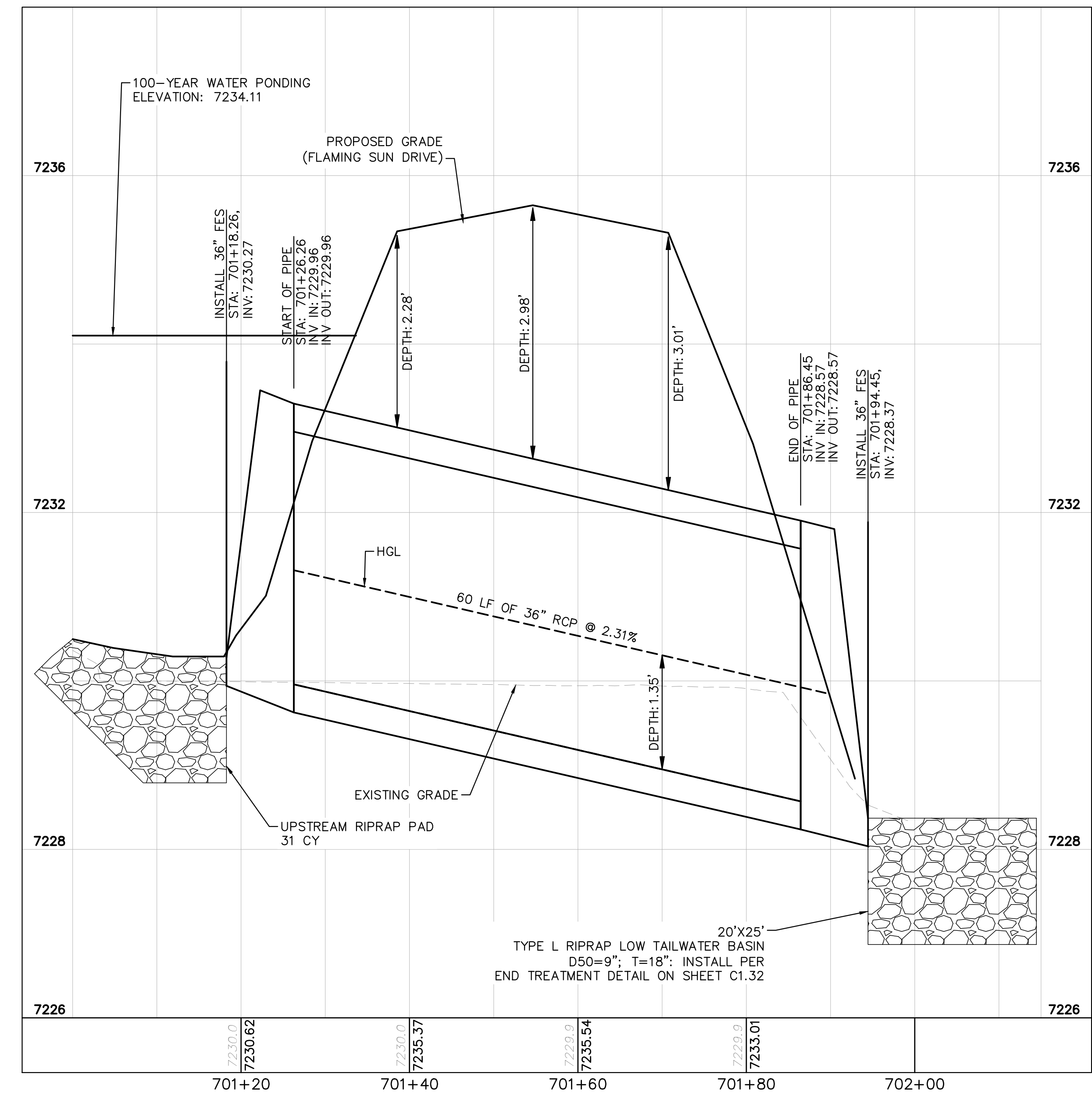
CULVERT 7 - DP5
PLAN VIEW

NOTES

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6'-1": 18"-30" FES
8'-1": 30" FES
8'-2": 42"-48" FES



CULVERT 7 (1) - DP5
PROFILE VIEW



CULVERT 7 (2) - DP5
PROFILE VIEW



Know what's below.
Call before you dig.



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2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KKK
DATE: 9/17/2024

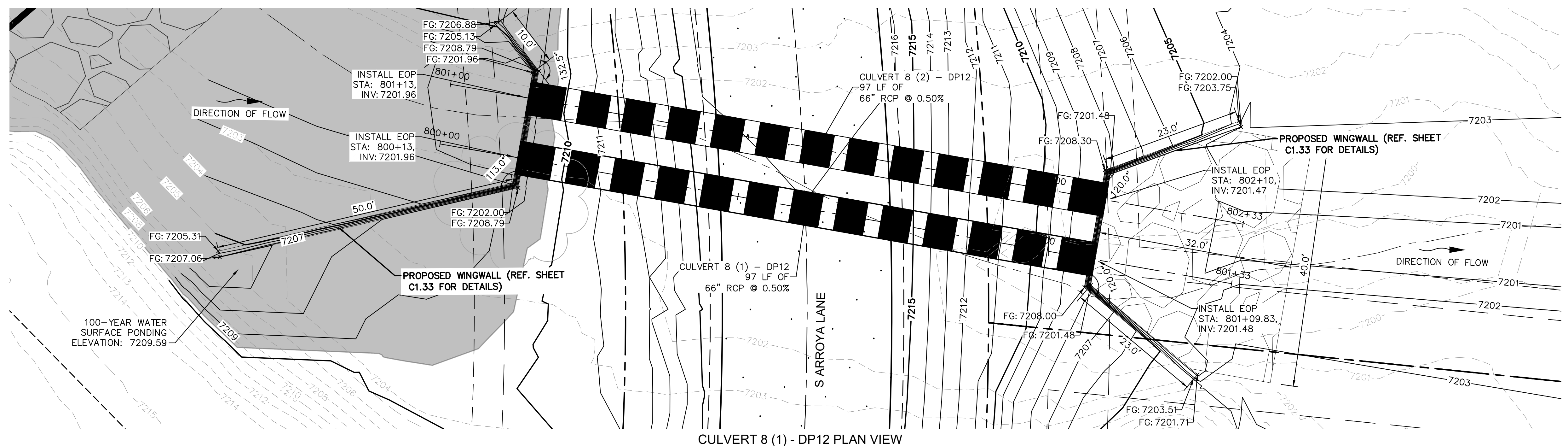
EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT PLAN AND PROFILE



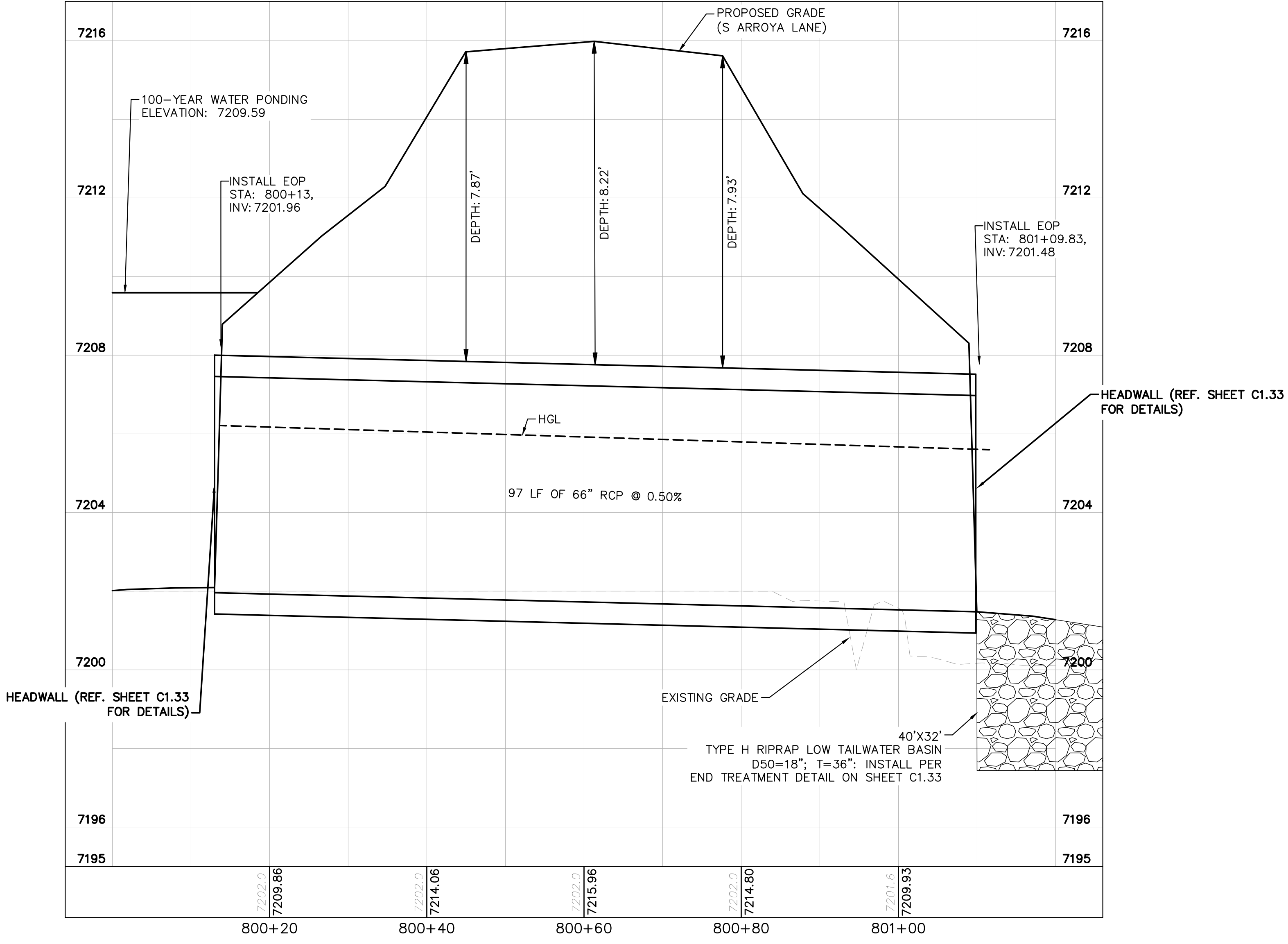
PROJECT NO.
196106001
SHEET

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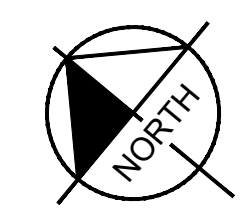
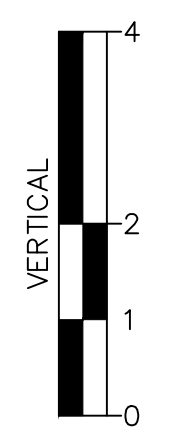
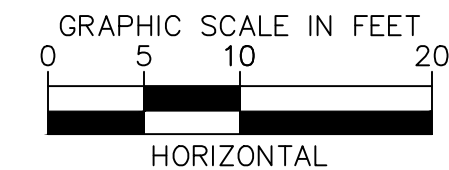
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CULVERT 8 (1) - DP12 PLAN VIEW



CULVERT 8 (1) - DP12 PROFILE VIEW



NOTES

1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
2. ASSUMED FLARED END SECTIONS (FES) LENGTHS ARE THE FOLLOWING:
 6'-1": 18"-30" FES
 8'-1": 30" FES
 8'-2": 42"-48" FES

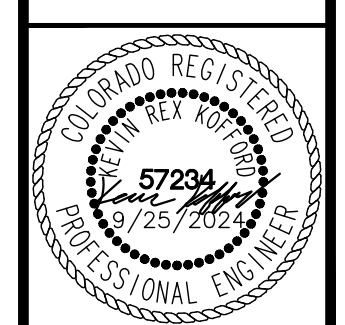


NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KKK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
 CULVERT PLAN AND PROFILE

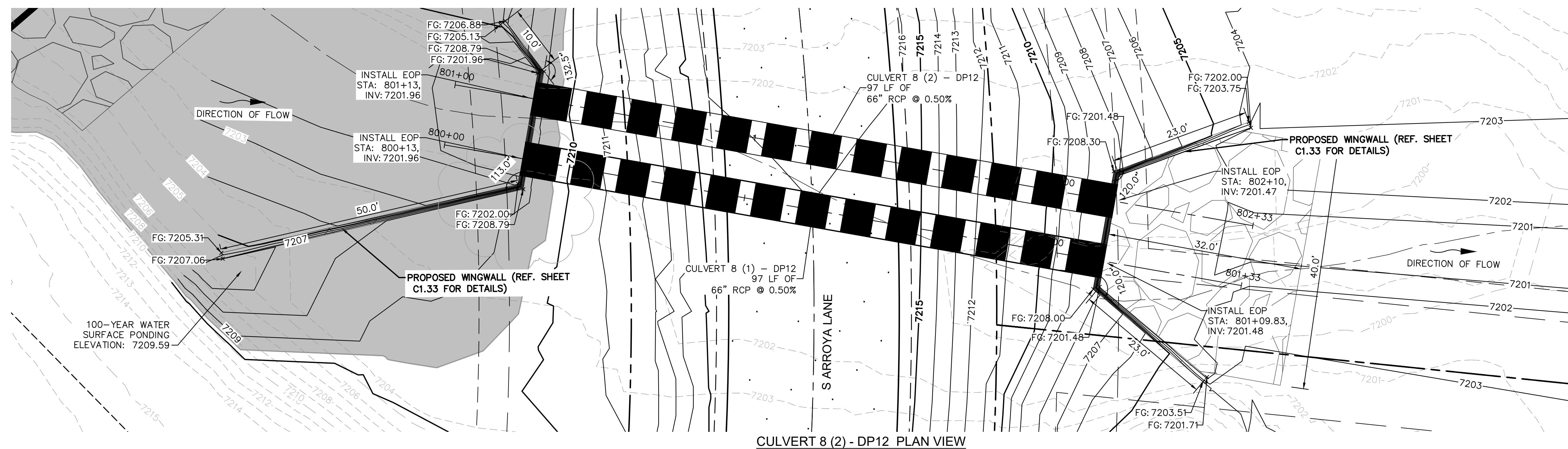


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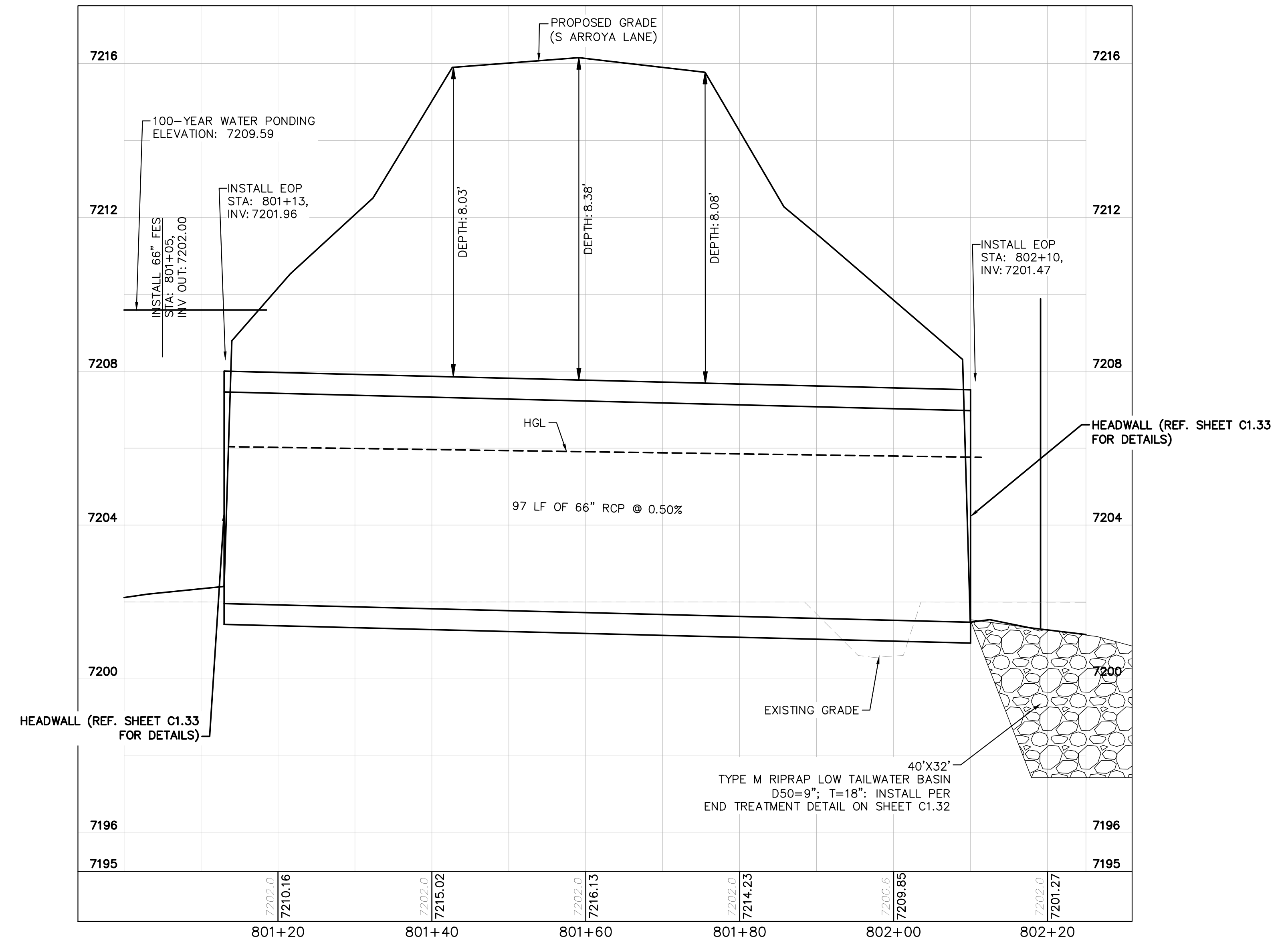
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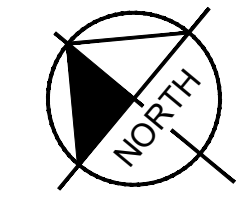
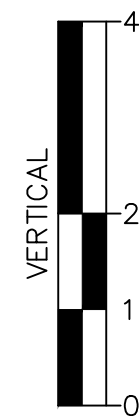
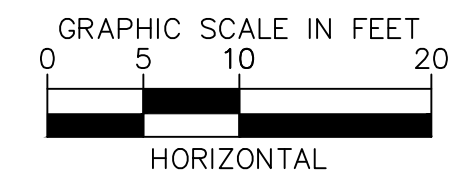
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CULVERT 8 (2) - DP12 PLAN VIEW



CULVERT 8 (2) - DP12 PROFILE VIEW



NOTES

1. PIPE LENGTH SHOWN IS 2D PIPE LENGTH. CONTRACTOR TO VERIFY QUANTITIES FOR ACTUAL LENGTH.
2. ASSUMED FLARED END SECTIONS (FES) LENGTHS ARE THE FOLLOWING:
 6'-1": 18"-30" FES
 8'-1": 30" FES
 8'-2": 42"-48" FES

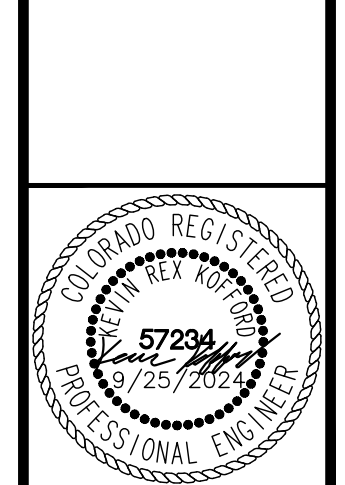


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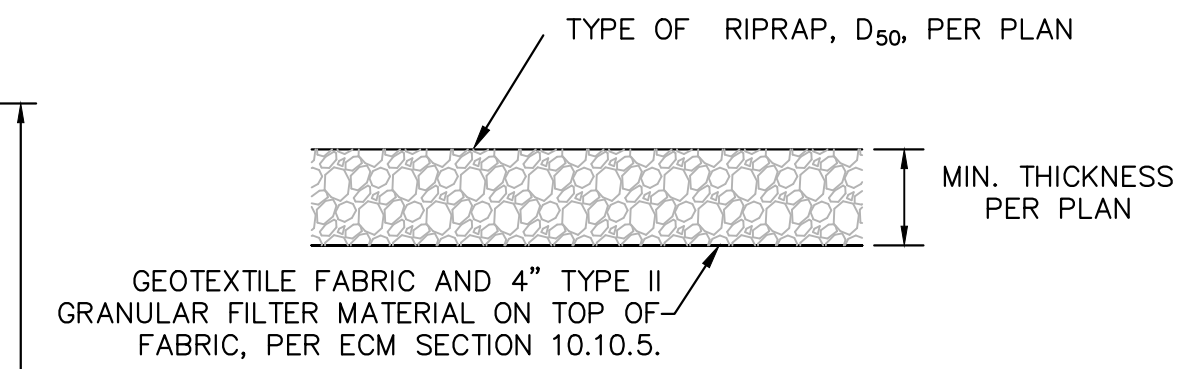
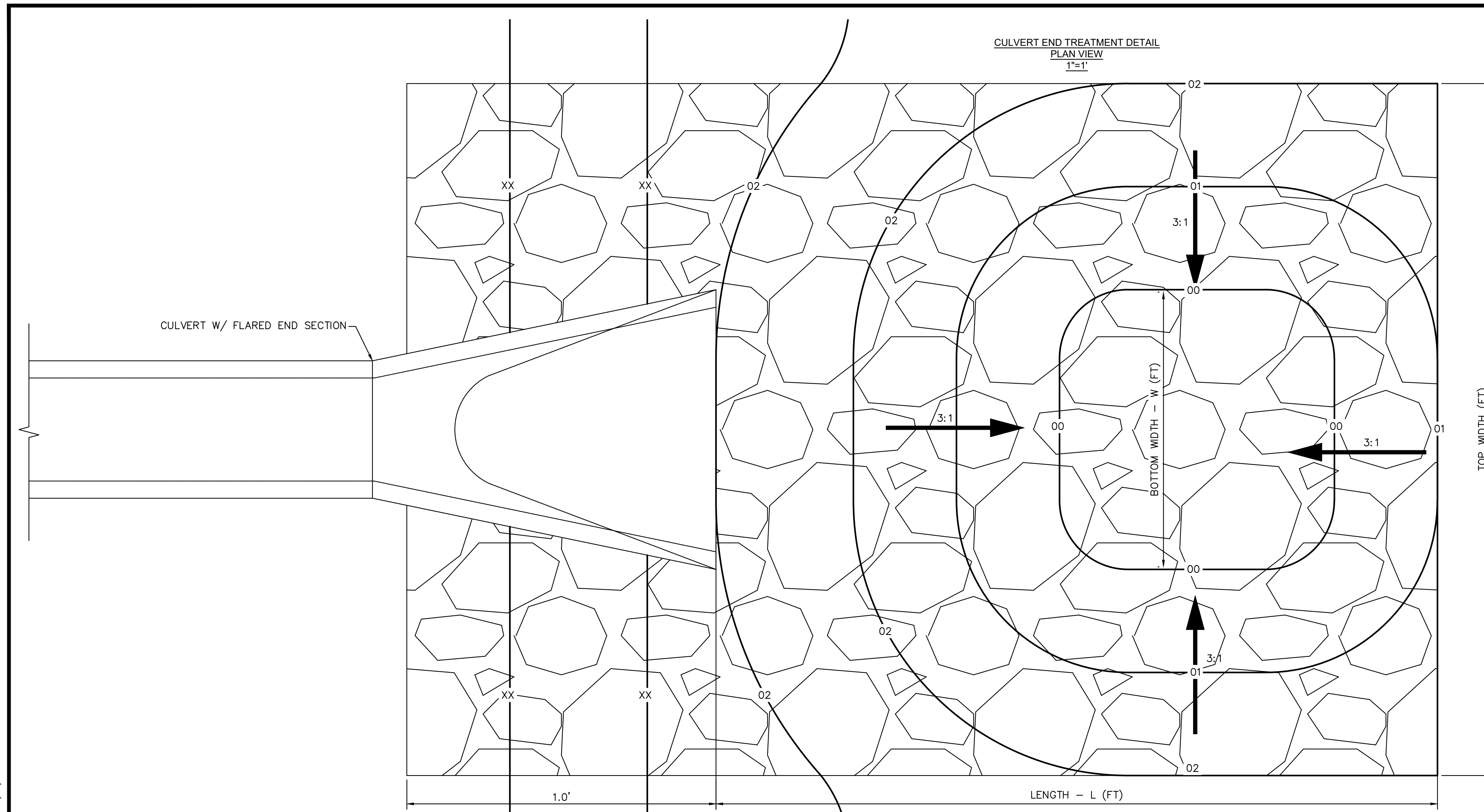
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 CULVERT PLAN AND PROFILE



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196106001

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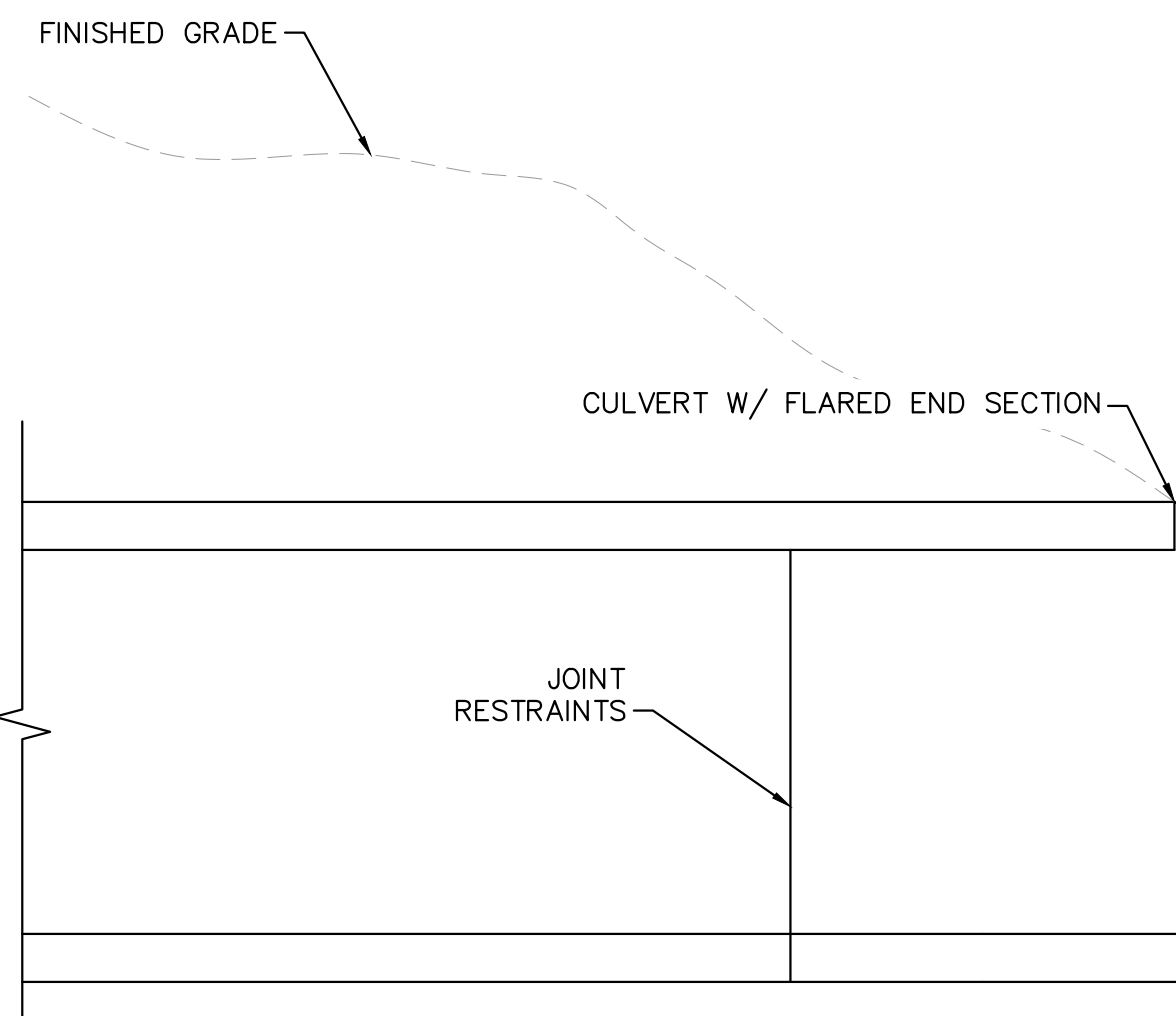
- D50 = MEAN PARTICLE SIZE (INTERMEDIATE DIMENSION) BY WEIGHT.
- RIP RAP SHALL BE PER PLAN AND SHALL BE MIXED WITH 30% SOIL TO 70% RIP RAP.
- RIP RAP SECTION THICKNESS SHALL BE 2.0 TIMES THE SPECIFIED MEAN PARTICLE SIZE (I.E. D50 X 2.0 MINIMUM) PER ECM SECTION 10.10.3.
- ALL RIP RAP SHALL BE UNDERLAIN WITH GEOTEXTILE FILTER FABRIC FOR STABILIZATION.
- RIP RAP SHALL WRAP AROUND AND EXTEND 2' MIN. BEHIND FLUME AND FLARED END SECTIONS.

TYPICAL RIPRAP SECTION DETAIL

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

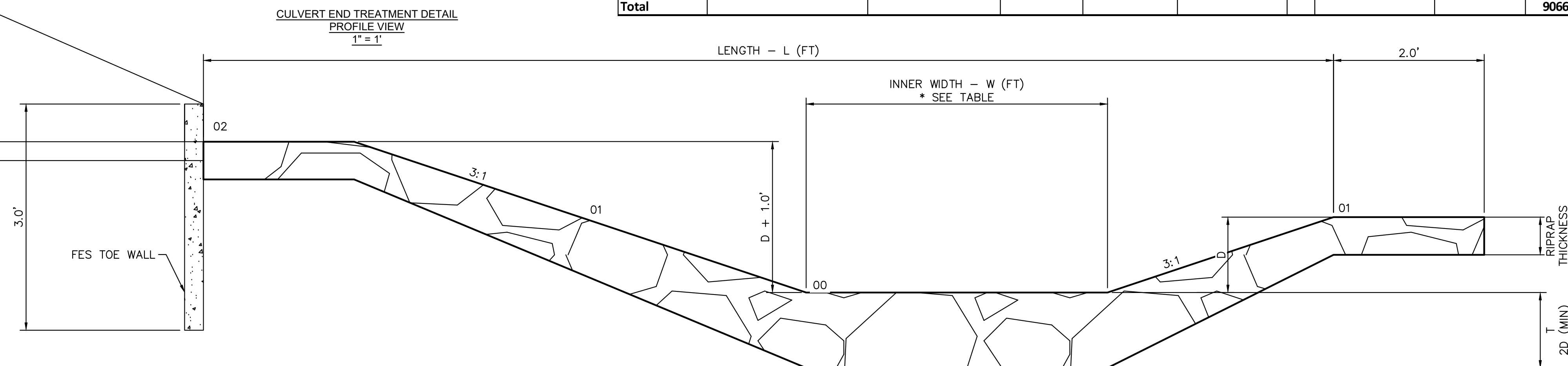


PIPE SIZE OR BOX HEIGHT	D	W*	L
18" - 24"	1'-0"	4'	15'
30" - 36"	1'-6"	6'	20'
42" - 48"	2'-0"	7'	24'
54" - 60"	2'-6"	8'	28'
66" - 72"	3'-0"	9'	32'

* IF OUTLET PIPE IS A BOX CULVERT WITH A WIDTH GREATER THAN W, THEN W = CULVERT WIDTH
 N = NUMBER OF BARRELS
 BOTTOM WIDTH FOR SINGLE BARREL CULVERTS = W
 BOTTOM WIDTH FOR NUMEROUS BARREL CULVERTS = W(N) + 4(N-1)

Eagleview Low Tailwater Basin Summary Table

Culvert	Pipe Size (in)	Barrels (No.)	Bottom Width -W (ft)	Length - L (ft)	Top Width (ft)	Tailwater Basin Depth - D (ft)	D50 (in)	RipRap Thickness - [2*D50] (ft)	MHFD Riprap Type	Vol (ft ³)	Vol (yd ³)
1	18	1	4	15	10	1	6	1	VL	150	5.56
2	36	3	26	20	35	1.5	9	1.5	L	1050	38.89
3	24	2	12	15	18	1	6	1	VL	270	10.00
4	18	1	4	15	10	1	6	1	VL	150	5.56
5	18	1	4	15	10	1	6	1	VL	150	5.56
6	36	2	16	20	25	1.5	9	1.5	L	750	27.78
7	36	2	16	20	25	1.5	9	1.5	L	750	27.78
8	66	2	22	32	40	3	18	3	H	3840	142.22
Pond 3 Outfall	42	1	11	24	23	2	18	3	H	1656	61.33
WQ Pond 1	24	1	4	15	10	1	6	1	VL	150	5.56
WQ Pond 2	18	1	4	15	10	1	6	1	VL	150	5.56
Total										9066	336

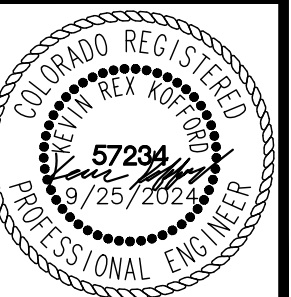


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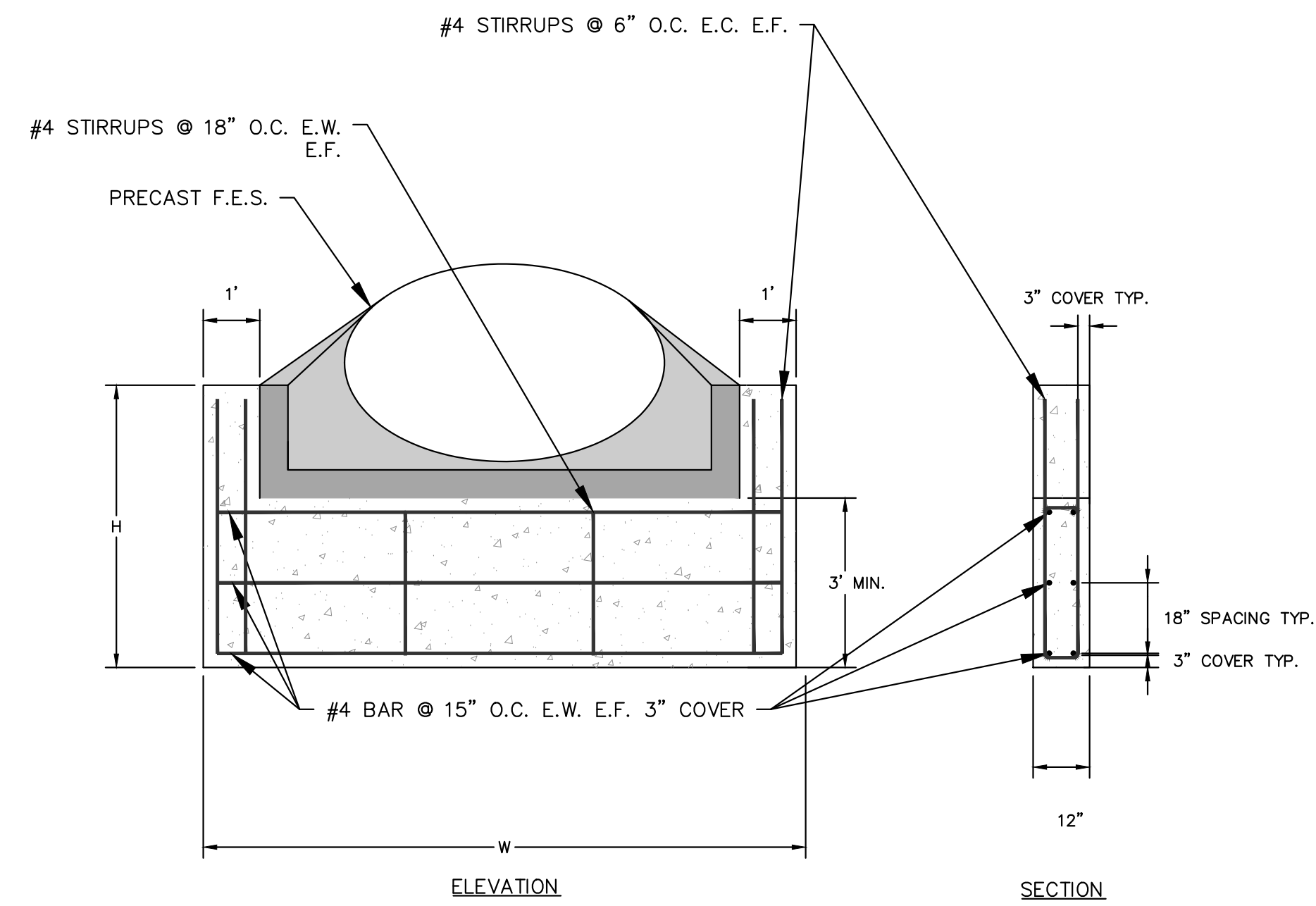
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 CULVERT END TREATMENT DETAILS



PROJECT NO. 196106001

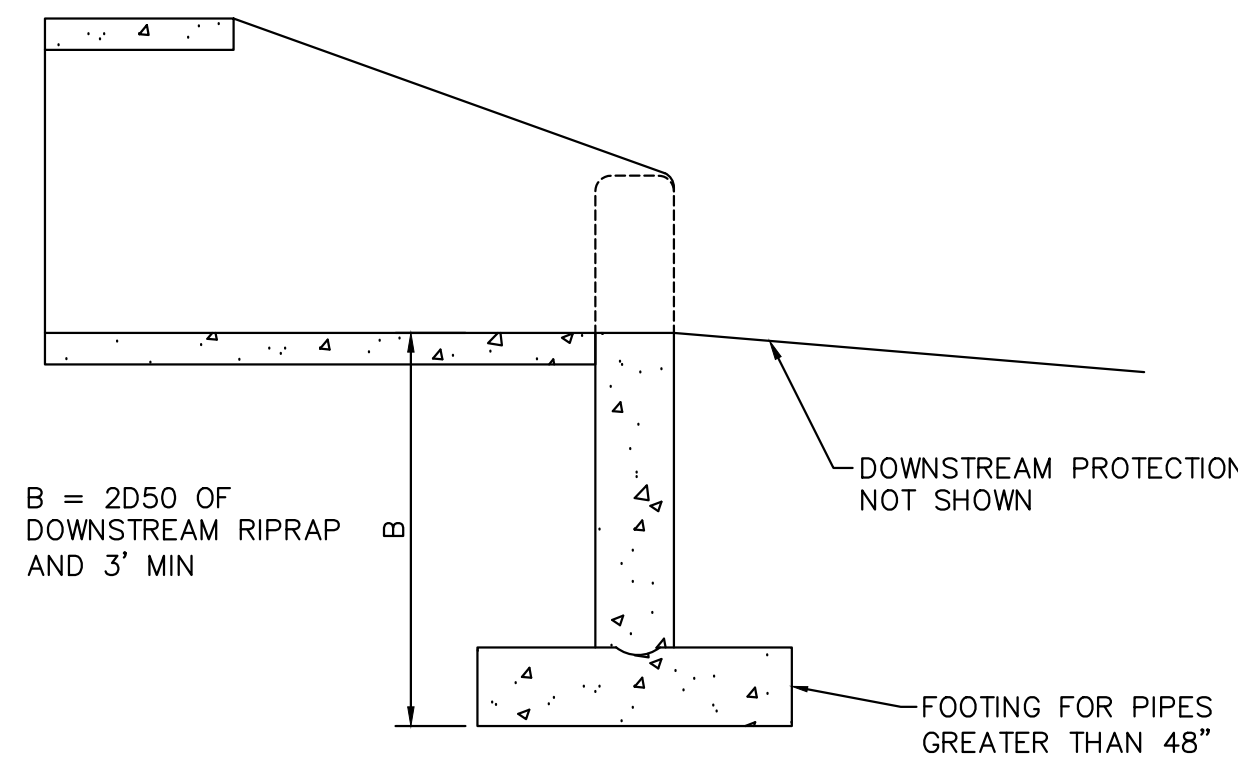
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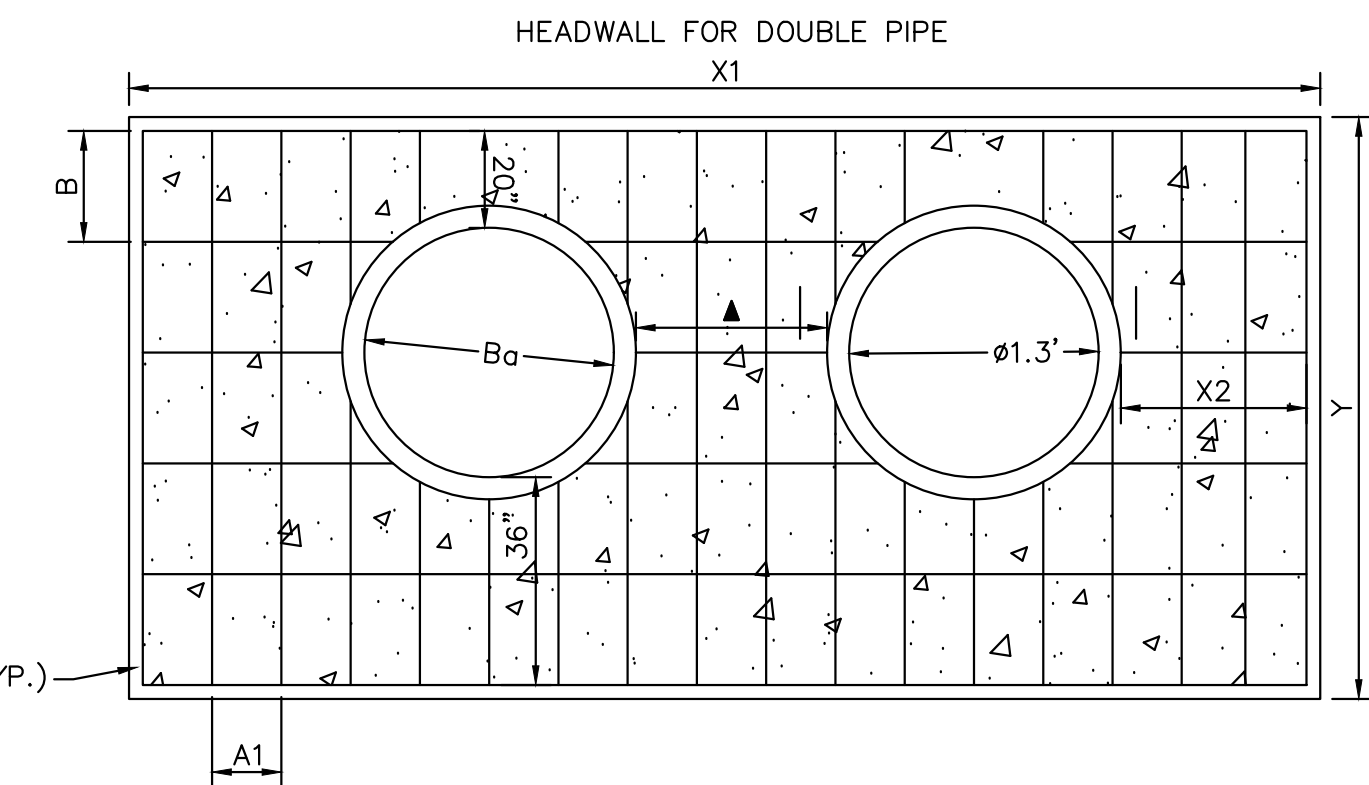


CULVERT TOE WALL DETAIL
N.T.S.

1. INSTALL CUTOFF WALLS UNDER ALL FLARED END SECTIONS.
2. REFER TO SIZE CHART ABOVE FOR PROPER SIZE
3. REFER TO CDOT STANDARD DRAWING M-603-10 FOR CONCRETE FLARED-END SECTION DETAILS
4. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI MINIMUM.
5. ALL CONNECTIONS, CONCRETE CUTOFF WALL (FOR END SECTION), STRUCTURE EXCAVATION AND BACKFILL, AND EXTRA WORK REQUIRED TO MODIFY OTHER PAY ITEMS SHALL BE INCLUDED IN THE COST OF REINFORCED CONCRETE END SECTION.
6. EXCAVATION FOR RIPRAP SHALL BE INCLUDED IN THE COST OF THE RIPRAP.

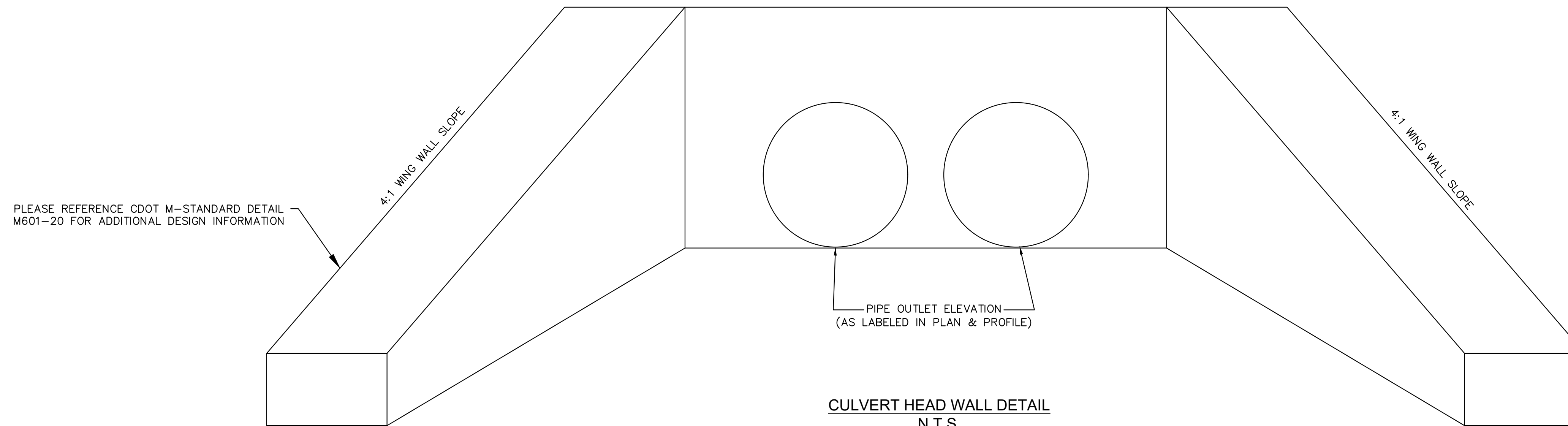


CULVERT TOE WALL DETAIL
N.T.S.



CULVERT HEAD WALL DETAIL
N.T.S.

PLEASE REFERENCE CDOT M-STANDARD DETAILS M601-10 AND M601-12 FOR ADDITIONAL DESIGN INFORMATION PLEASE NOTE THAT O.D.-O.D.



CULVERT HEAD WALL DETAIL
N.T.S.

PLEASE REFERENCE CDOT M-STANDARD DETAILS M601-10 AND M601-12 FOR ADDITIONAL DESIGN INFORMATION PLEASE NOTES THAT O.D.-O.D. SPACING BETWEEN RCP PIPES SHALL BE 3.0' TYPICAL.

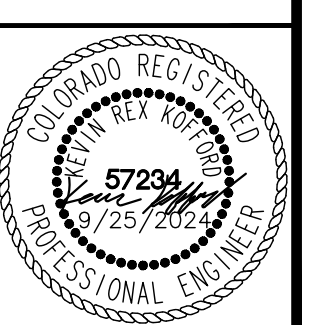
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CULVERT DETAILS

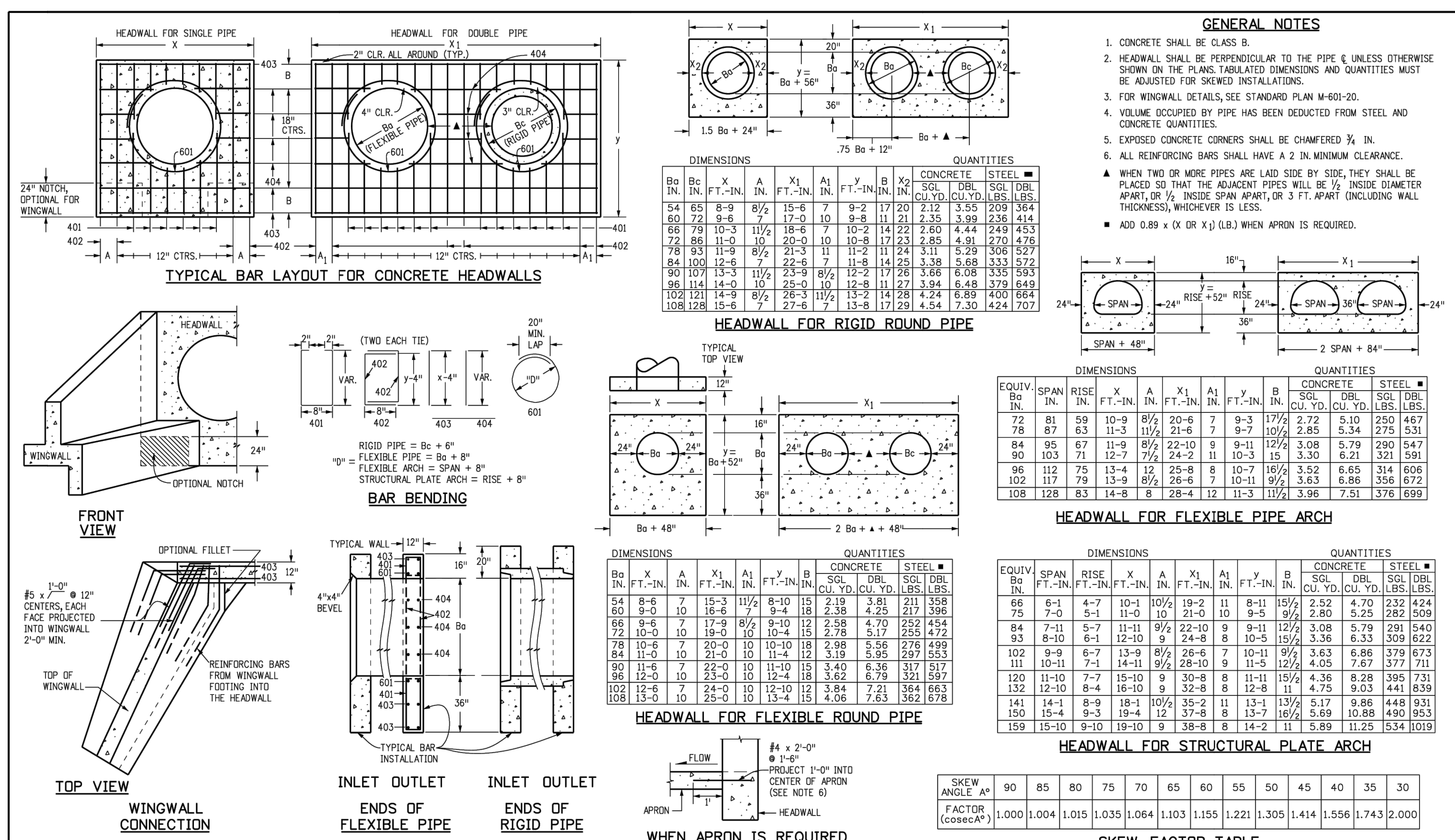


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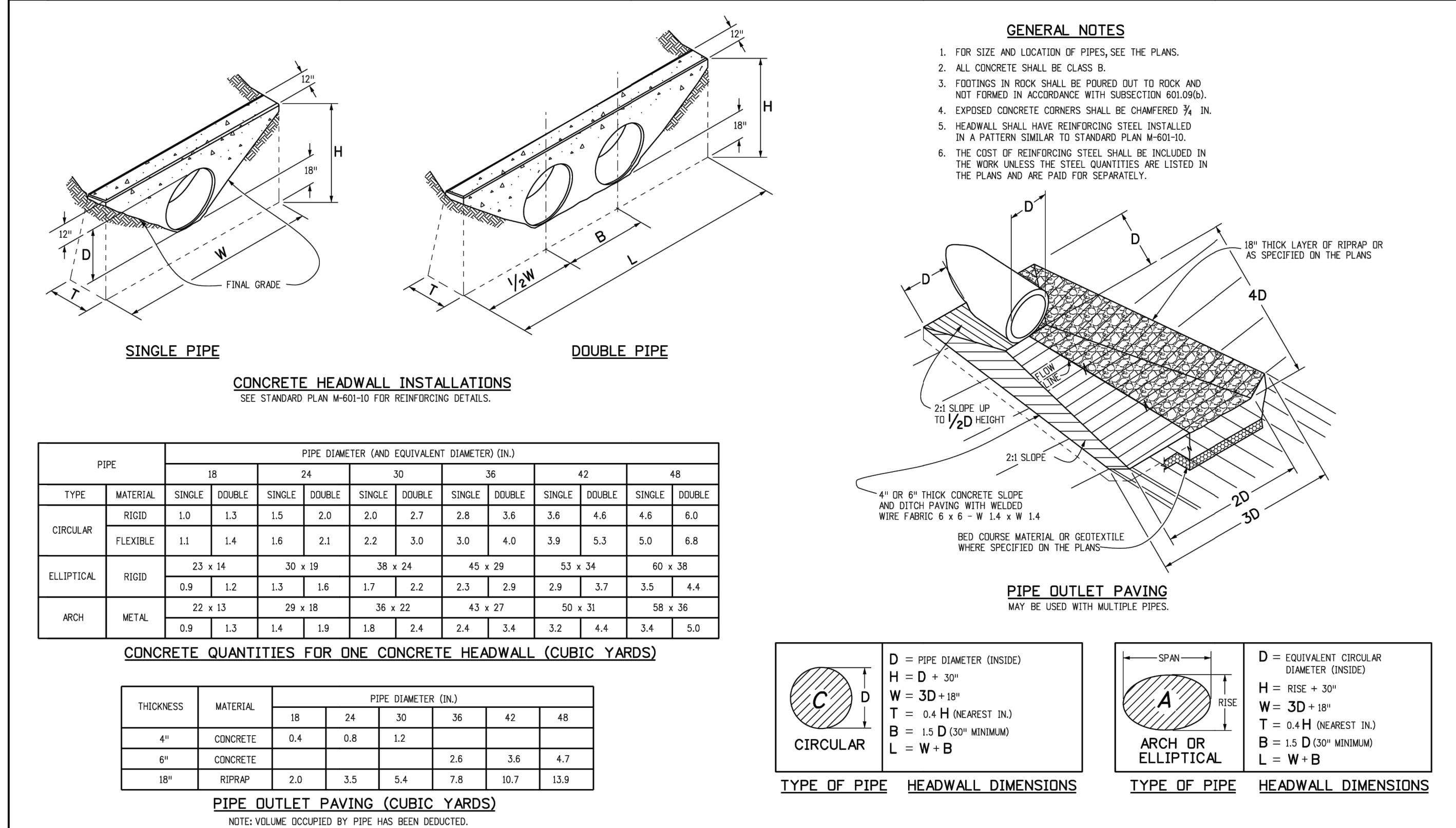
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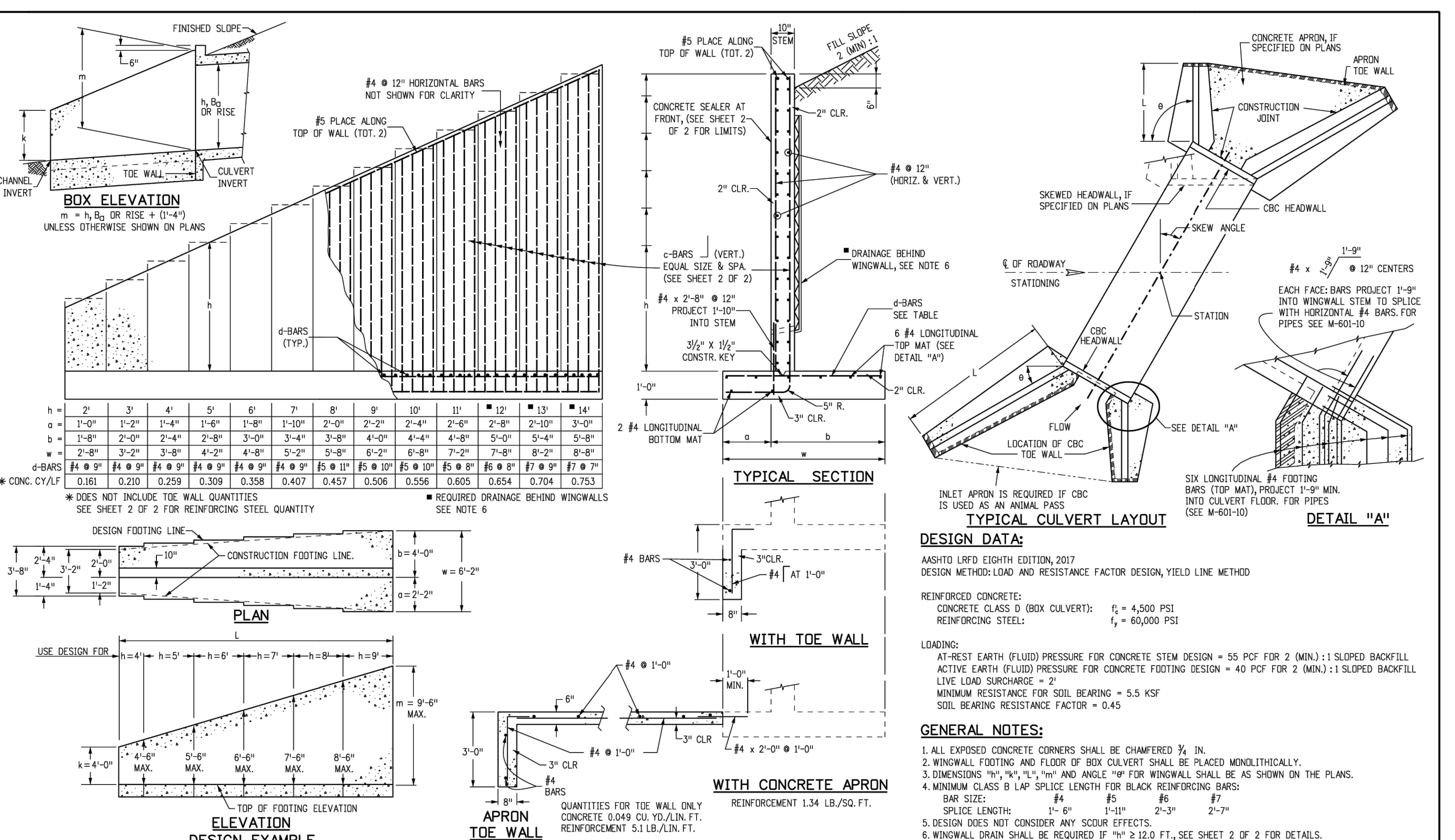
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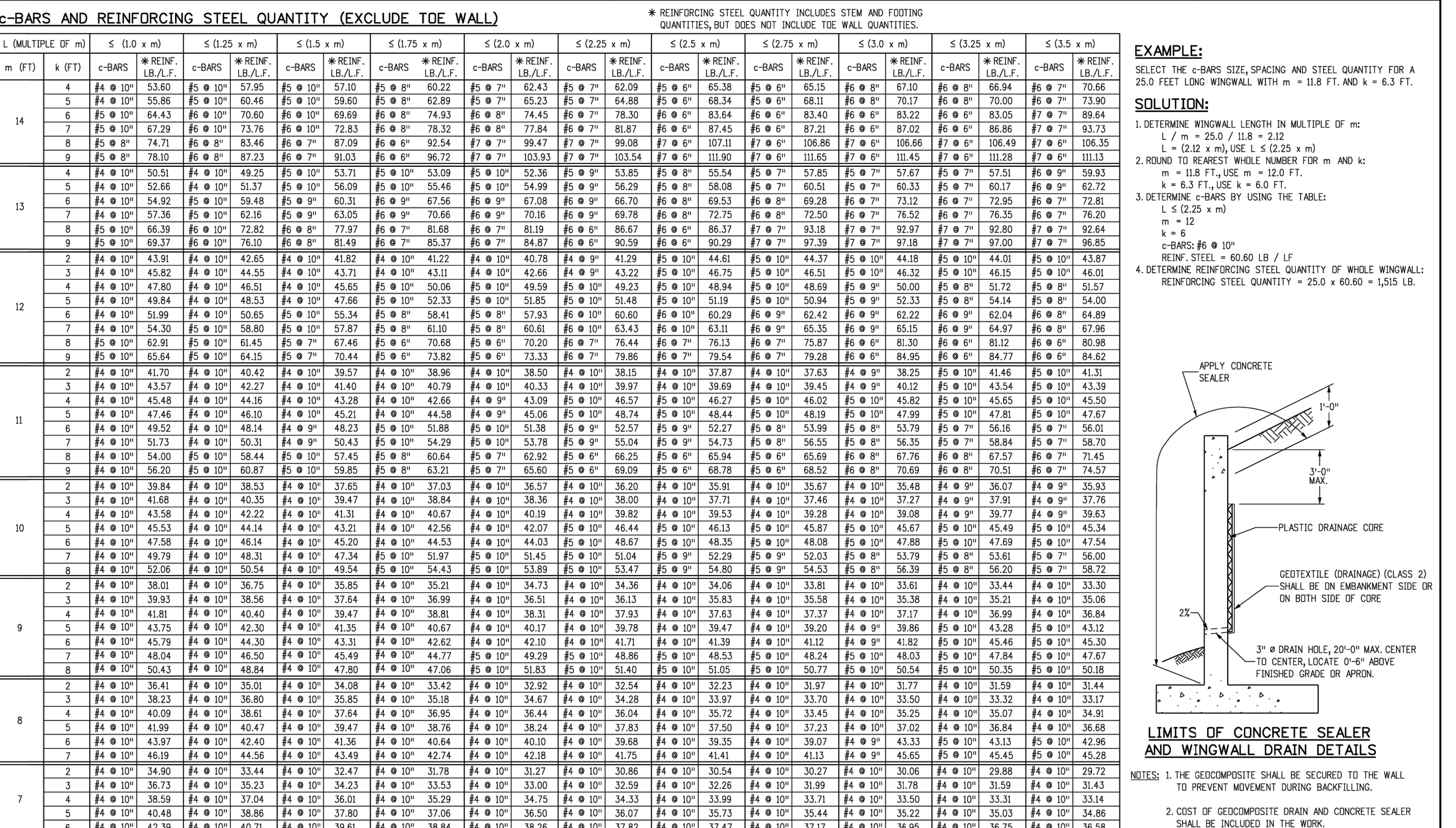
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Computer File Information Creation Date: 07/04/12 Last Modification Date: 09/04/18 Full Path: www.codot.gov/business/designsupport Drawing File Name: 6012020102.dwg CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	Sheet Revisions Date: 09/04/18 Comments: LRP Design	Colorado Department of Transportation 2829 West Howard Place CODOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9688	WINGWALLS FOR PIPE OR BOX CULVERTS M-601-20 Standard Plan No. 1 of 2 Project Sheet Number: _____
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PROFESSIONAL ENGINEER
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1975

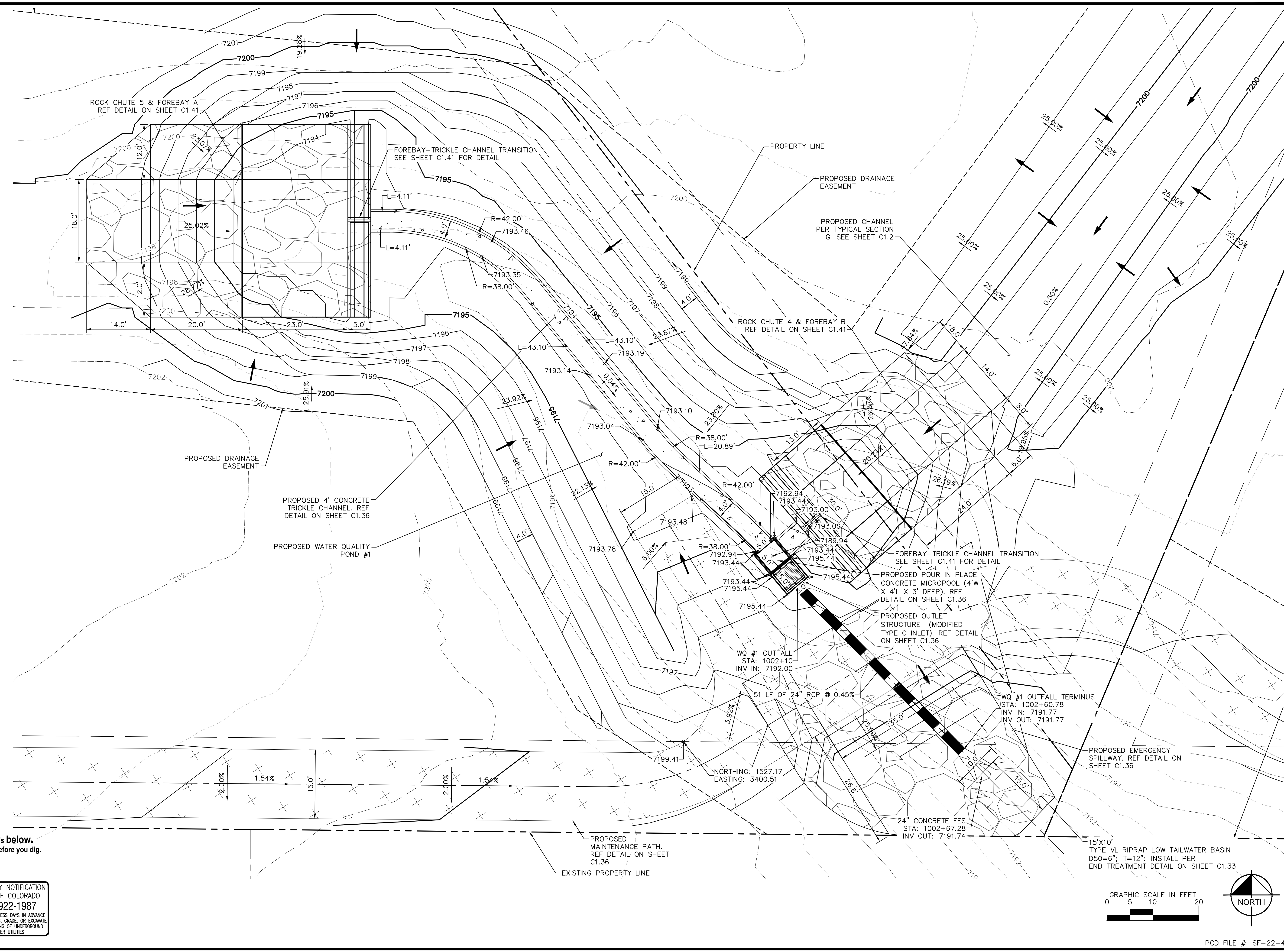
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SHEET C1.34
PCD FILE #: SF-22-42

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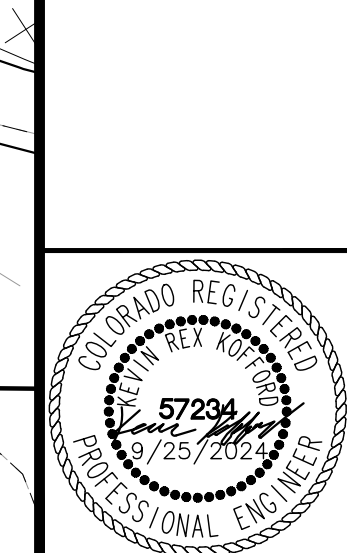


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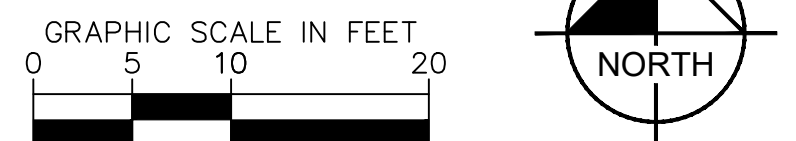
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WATER QUALITY POND #1



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SHEET
C1.35



PCD FILE #: SF-22-42

ORIFICE PLATE NOTES

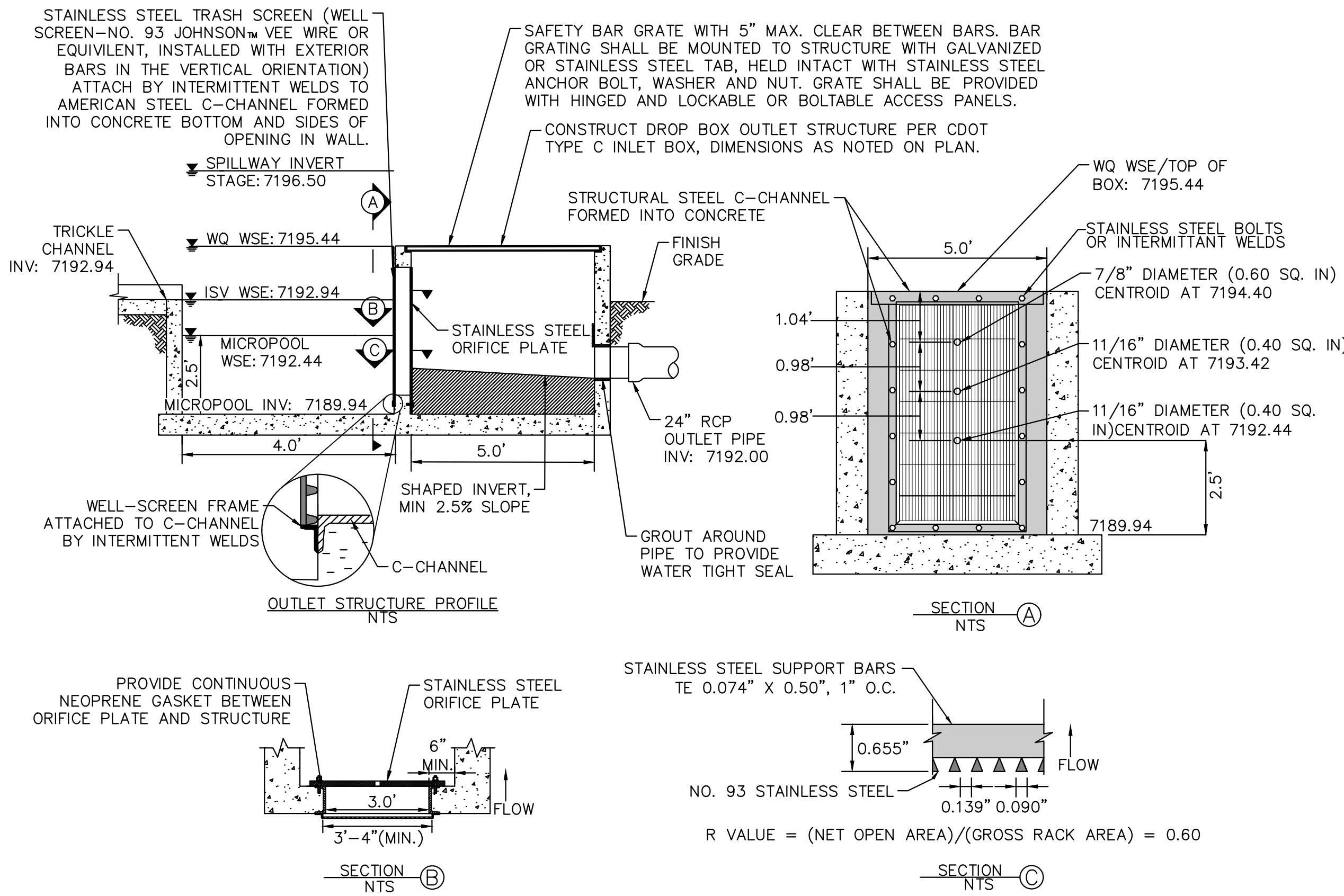
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER, WITH A PLATE THICKNESS OF 0.25".

WELL-SCREEN TRASH RACKS

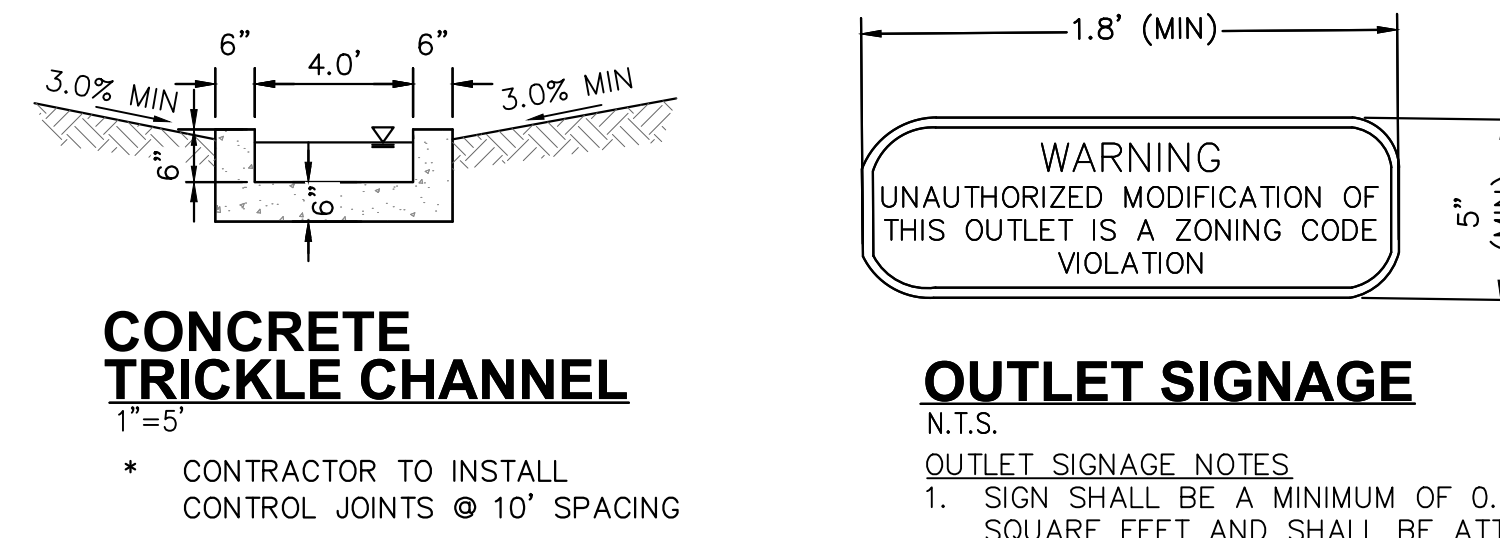
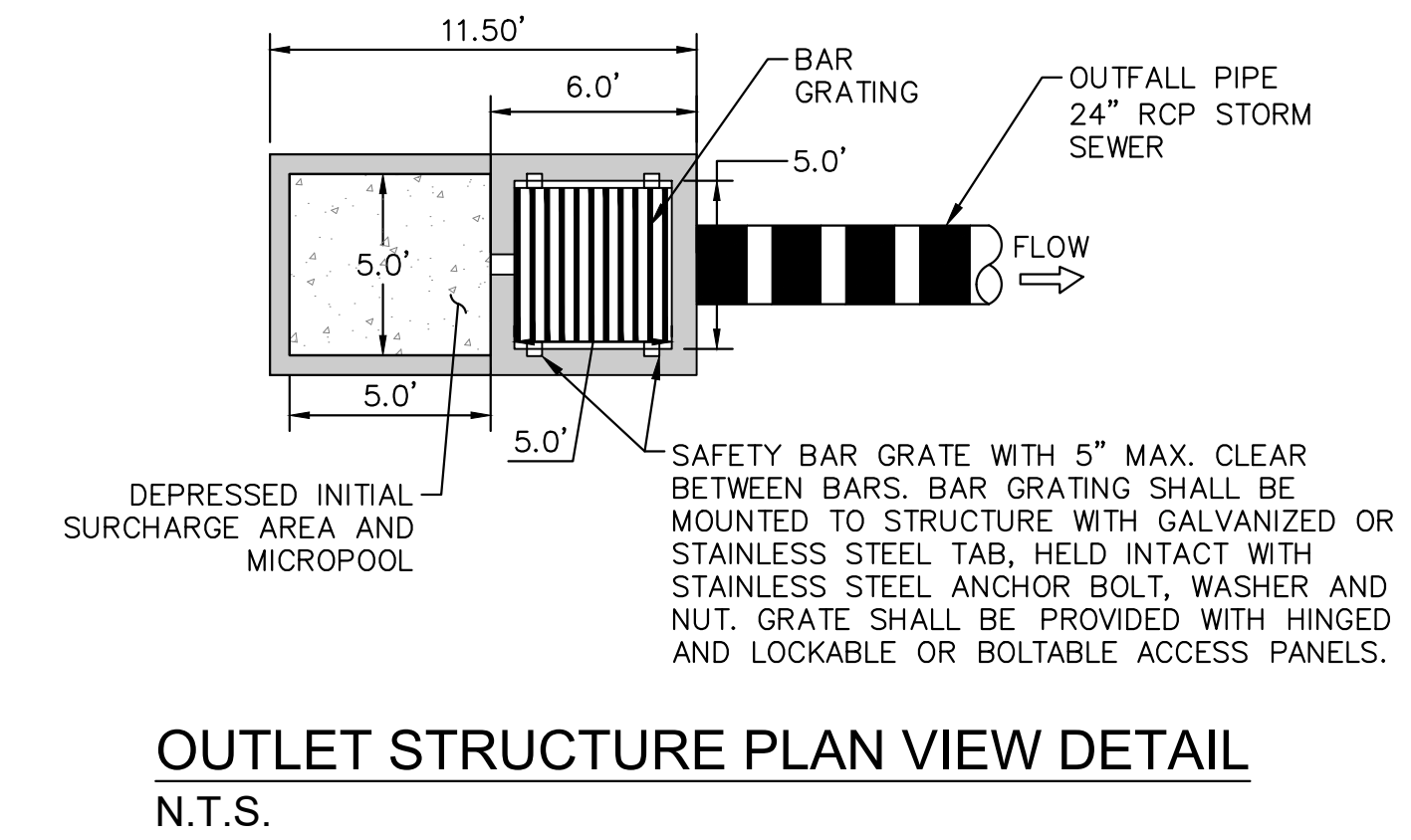
1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH 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.

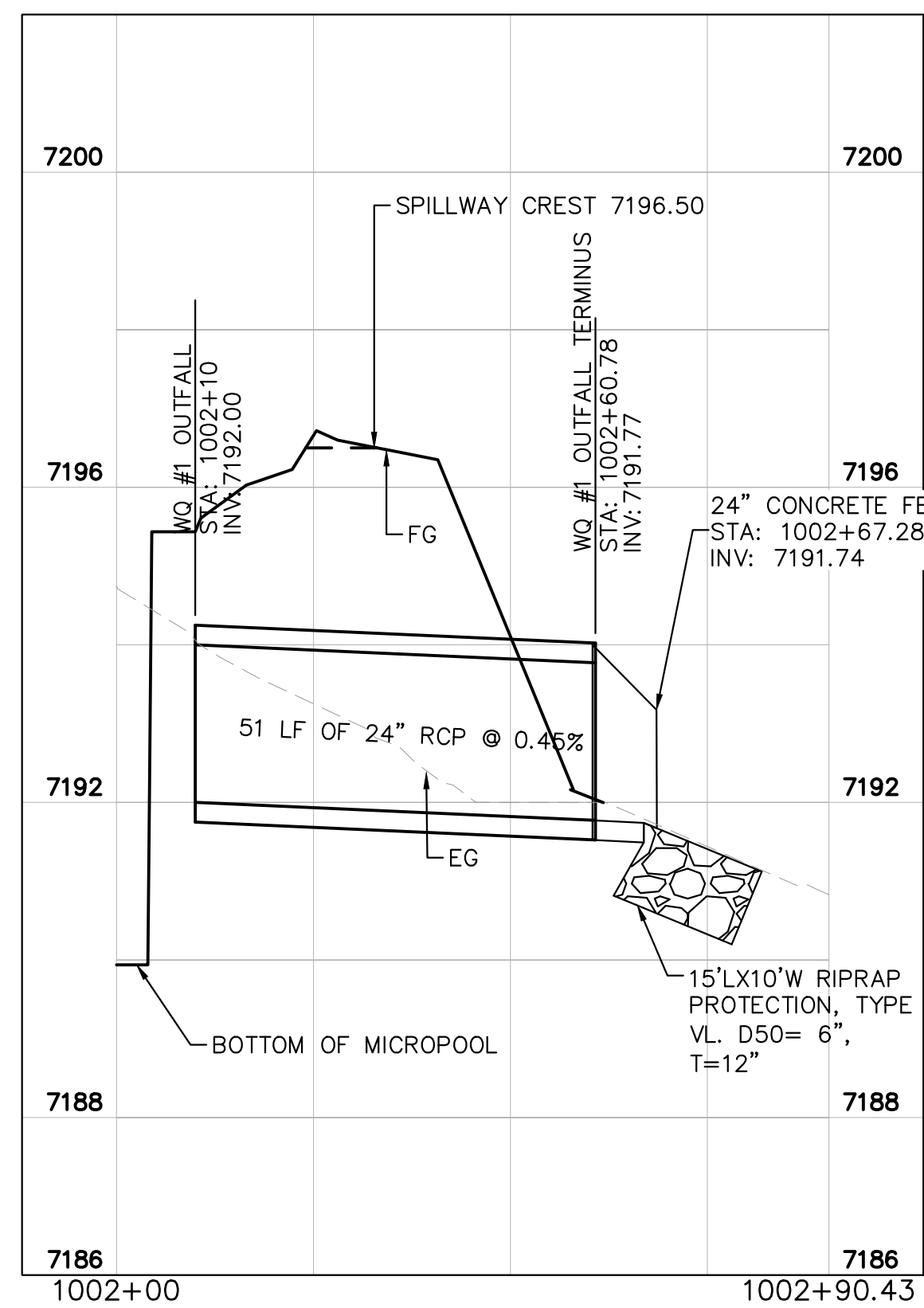


OUTLET STRUCTURE PROFILE DETAIL
N.T.S.

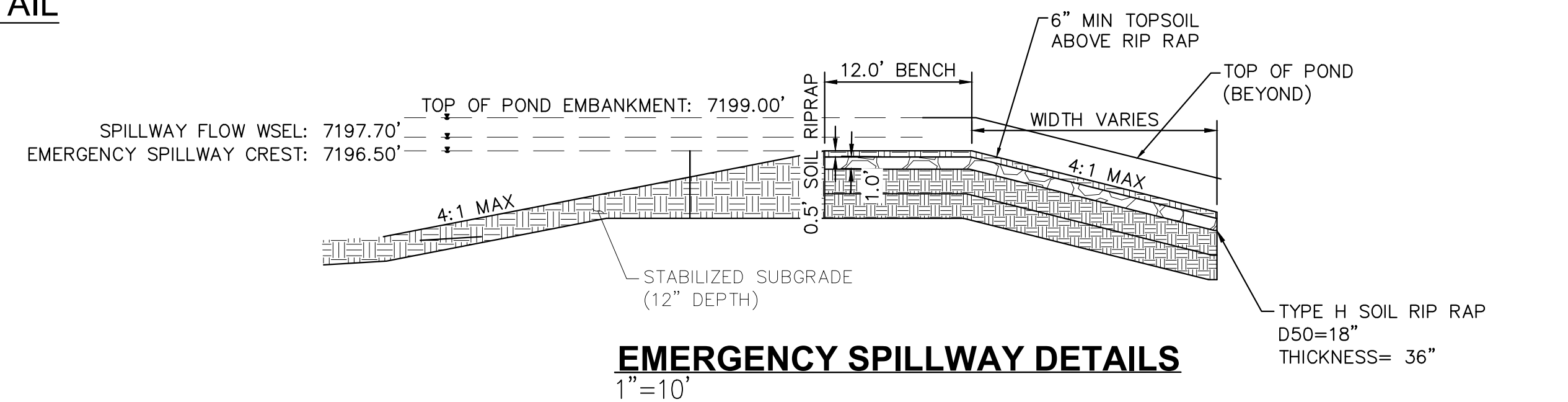


CONCRETE TRICKLE CHANNEL
1"=5"

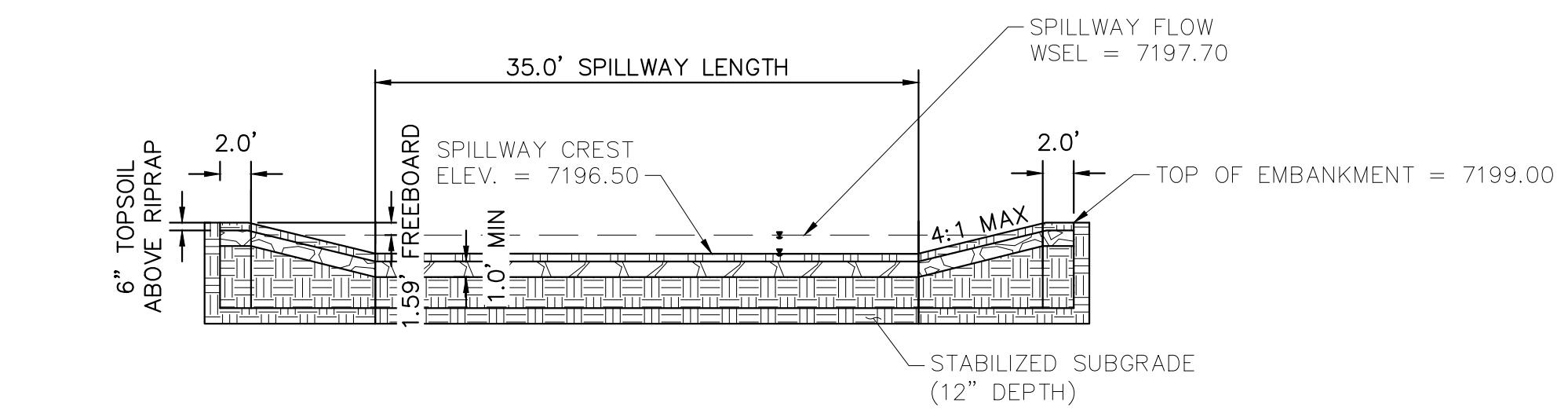
OUTLET SIGNAGE
N.T.S.
OUTLET SIGNAGE NOTES
1. SIGN SHALL BE A MINIMUM OF 0.75 SQUARE FEET AND SHALL BE ATTACHED TO THE OUTLET OR POSTED NEARBY.



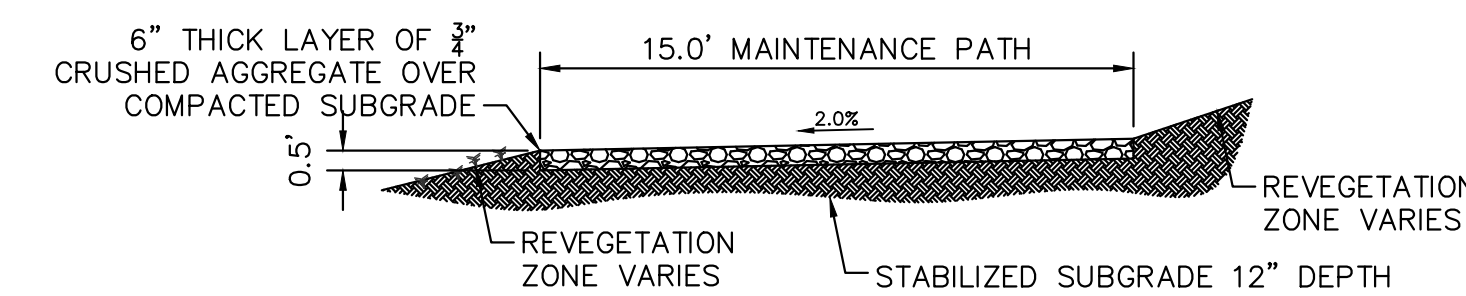
WATER QUALITY #1 OUTFALL
1"=20"



EMERGENCY SPILLWAY DETAILS
1"=10"



EMERGENCY SPILLWAY
1"=10"



MAINTENANCE ROAD
1"=5"

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

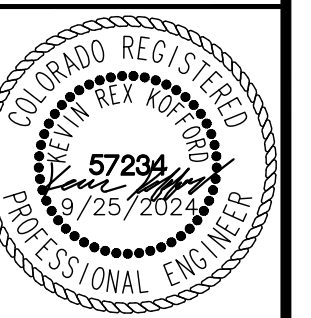


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WATER QUALITY POND #1 DETAILS



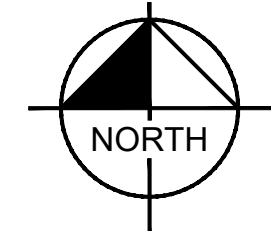
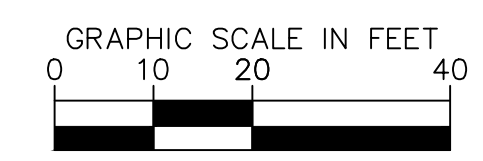
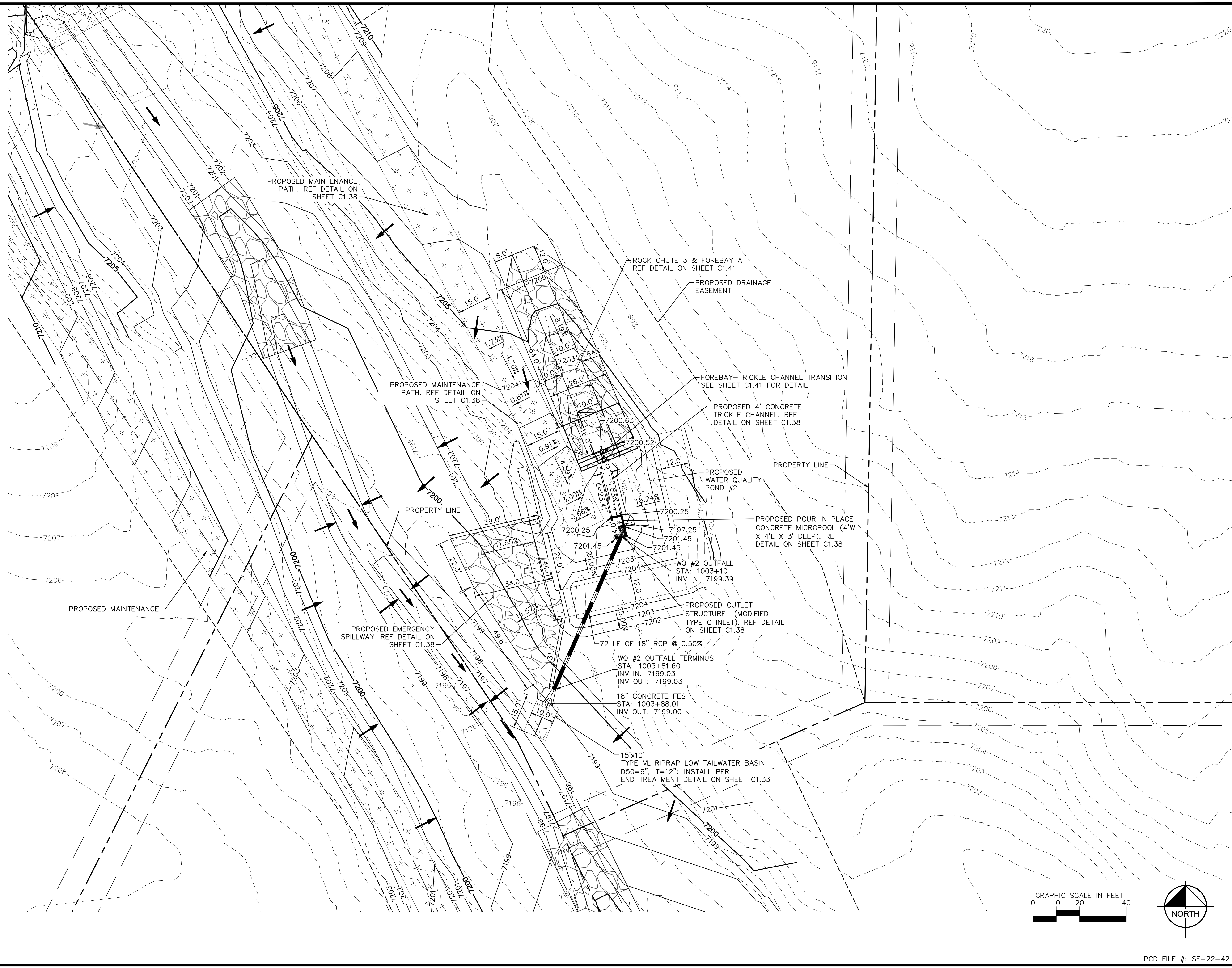
PROJECT NO.
196106001
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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES



PCD FILE #: SF-22-42

NO.	REVISION	BY	DATE	APPR

Kimley»Horn
 2024 KIMLEY-HORN AND ASSOCIATES, INC.
 2 North Nevada Avenue Suite 900
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KRK
 DATE: 9/17/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
WATER QUALITY POND #2



PROJECT NO.
196106001
SHEET

C1.37

ORIFICE PLATE NOTES

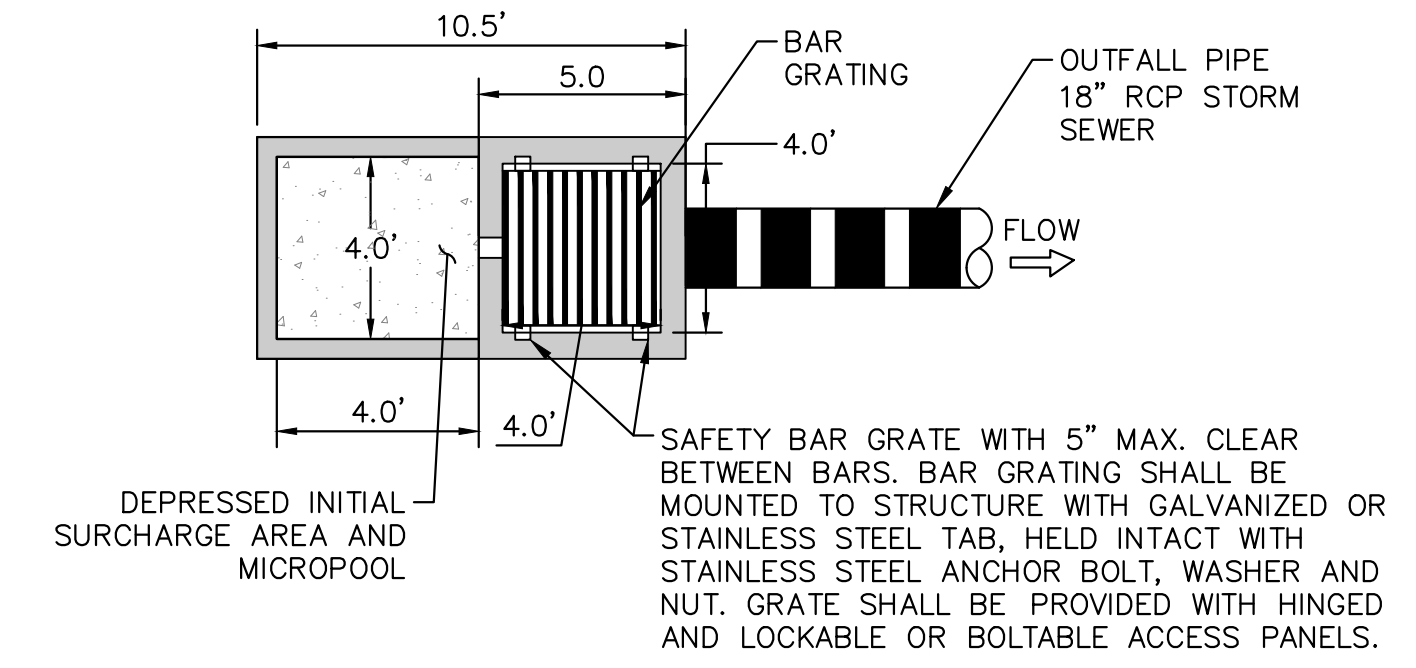
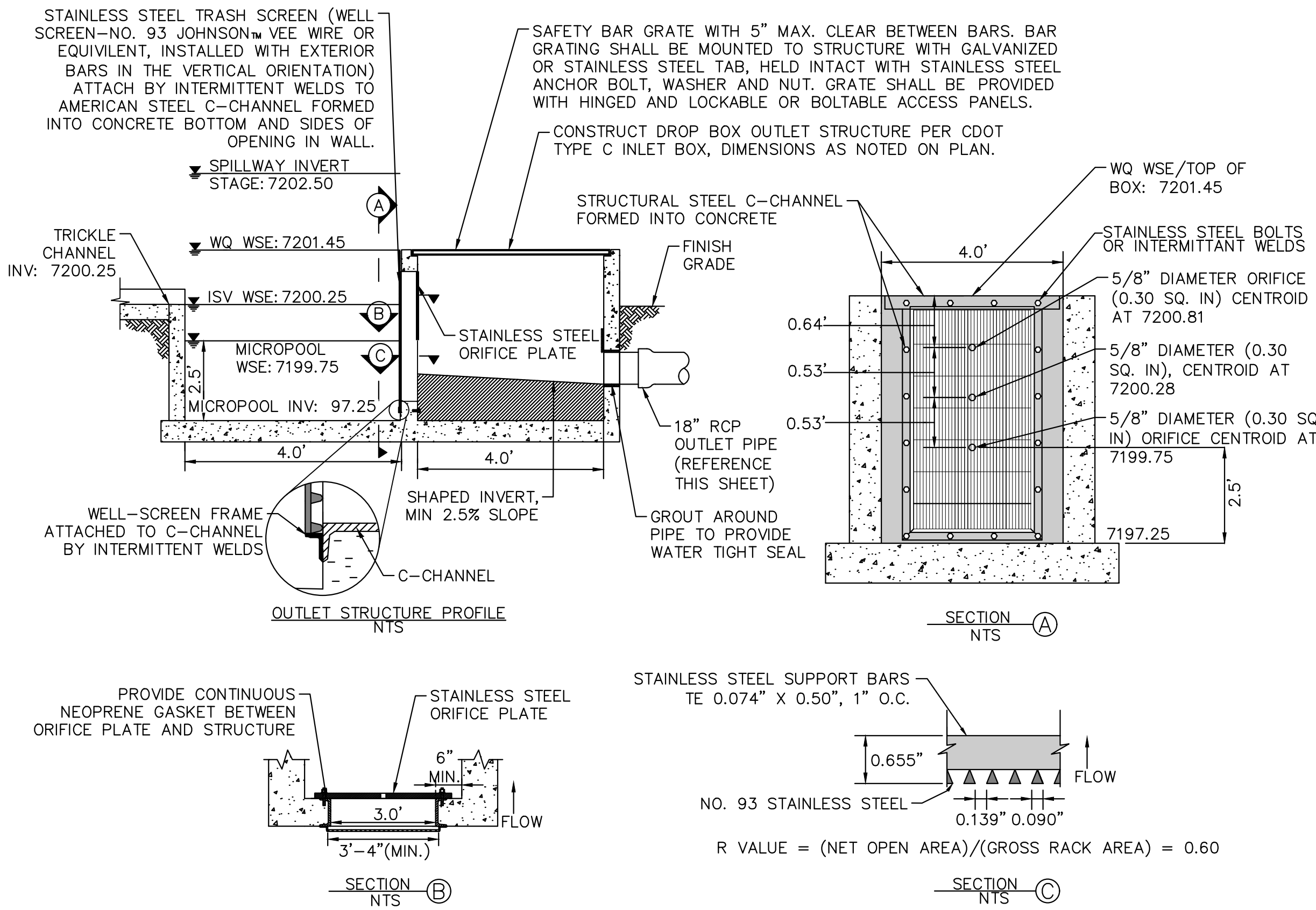
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER, WITH A PLATE THICKNESS OF 0.25".

WELL 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.



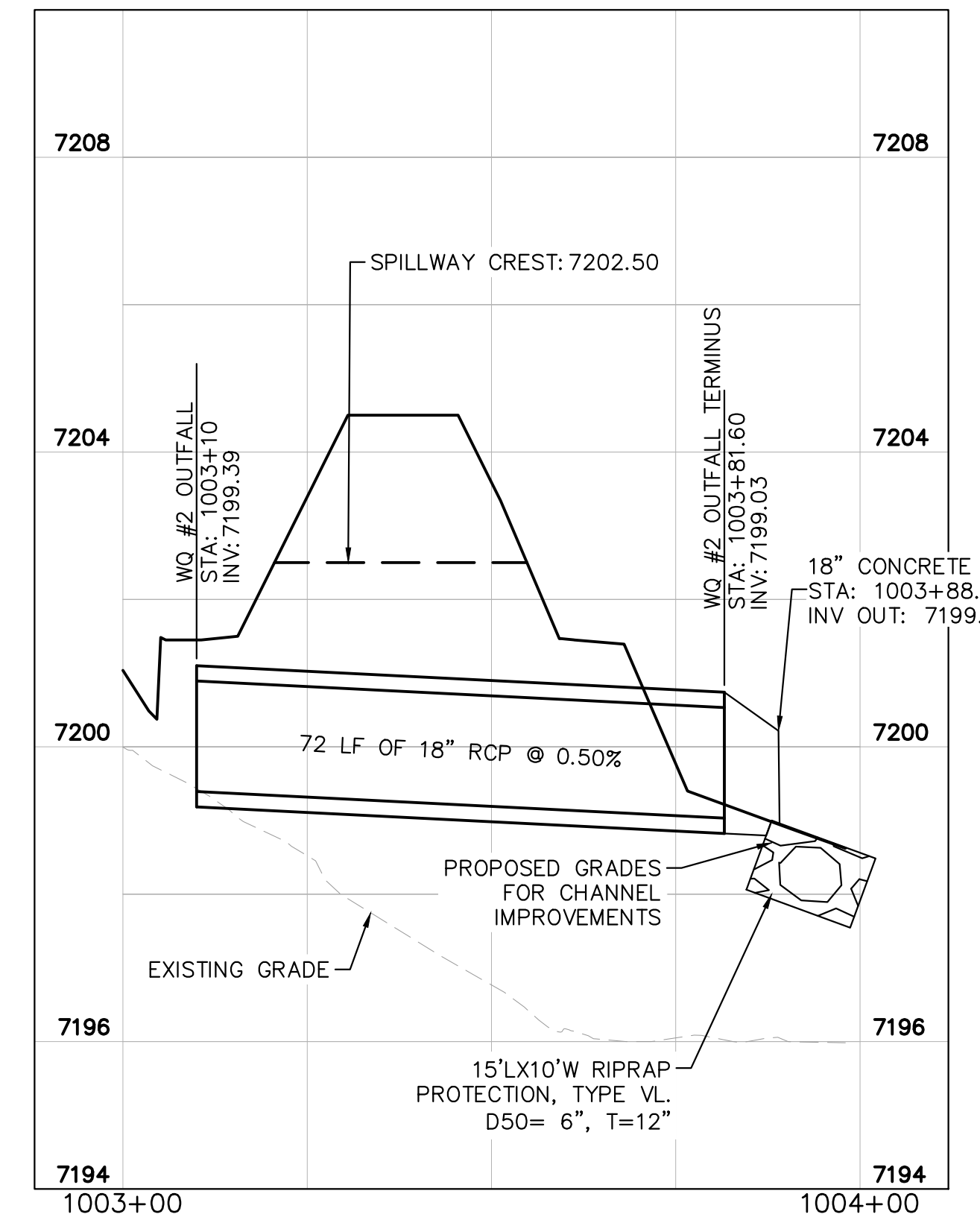
OUTLET STRUCTURE PLAN VIEW DETAIL
N.T.S.



CONCRETE TRICKLE CHANNEL
1"=5'
* CONTRACTOR TO INSTALL CONTROL JOINTS @ 10' SPACING

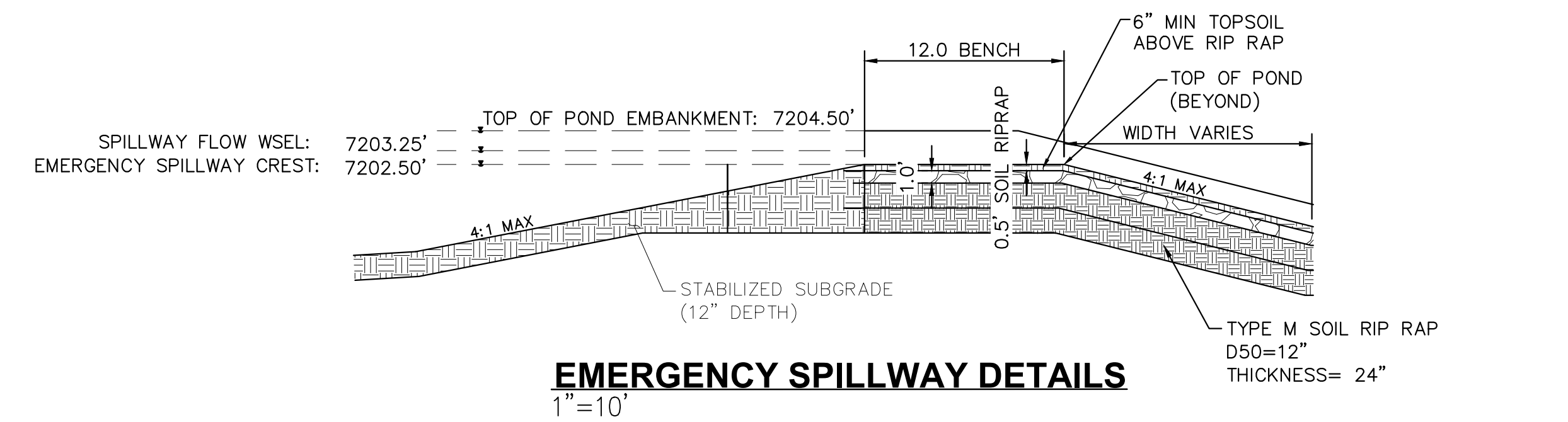
OUTLET SIGNAGE

- 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.

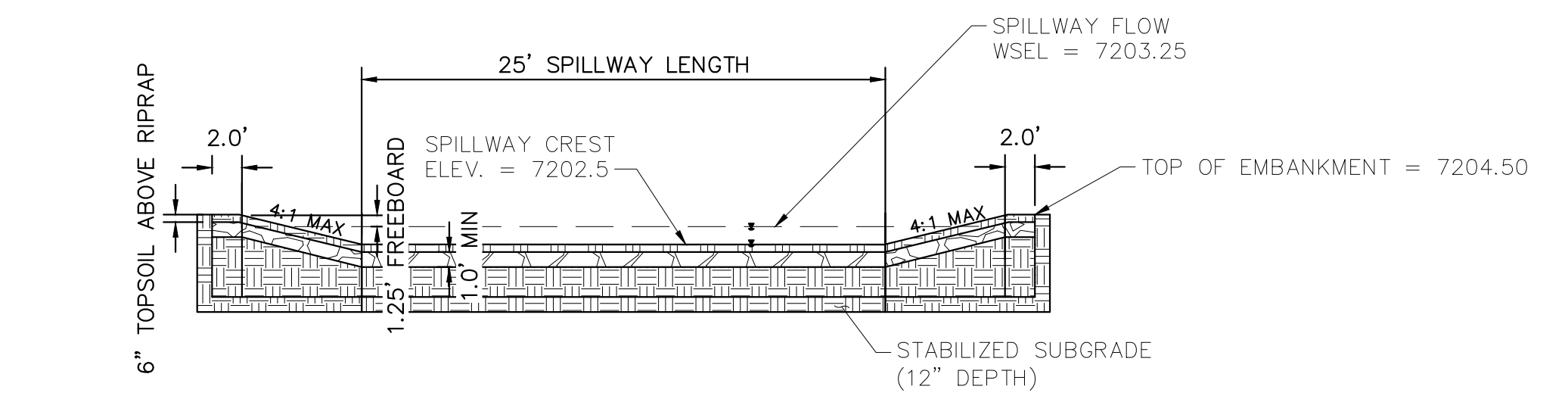


WATER QUALITY #2 OUTFALL
1"=20'

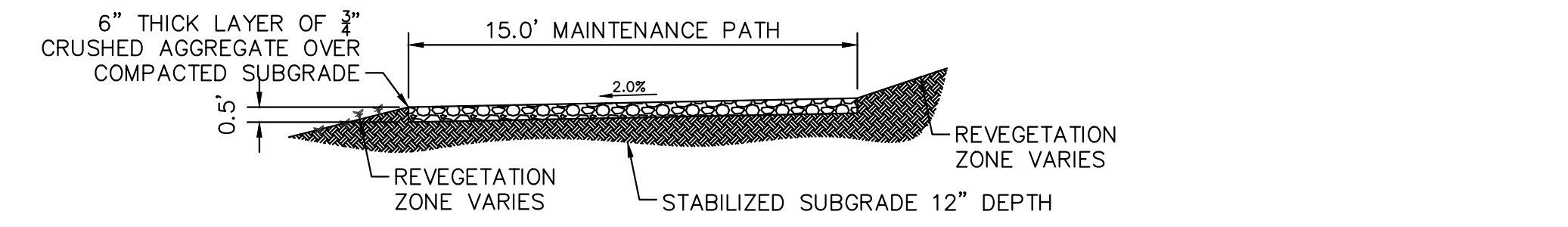
OUTLET STRUCTURE PROFILE DETAIL
N.T.S.



EMERGENCY SPILLWAY DETAILS
1"=10'



EMERGENCY SPILLWAY
1"=10'



MAINTENANCE ROAD

- 1"=5'
MAINTENANCE PATH NOTES
1. MAINTENANCE PATH SHALL INCLUDE SUBGRADE PREPARATION, GRAVEL BASE, AND COMPACTION.

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

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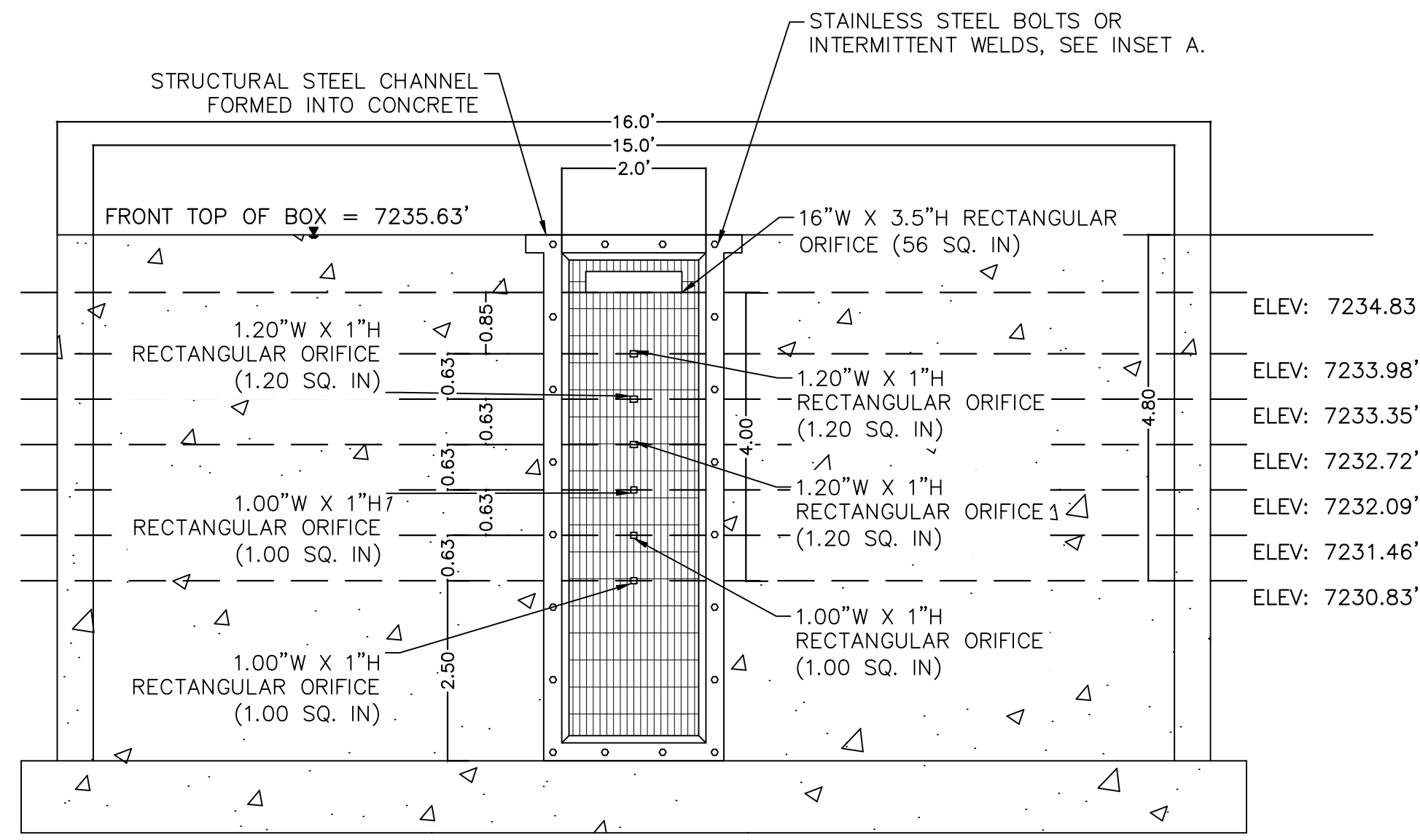
DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KRK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
WATER QUALITY POND #2 DETAILS

COLORADO REGISTERED PROFESSIONAL ENGINEER
57234
12/25/2022

PROJECT NO. 196106001
SHEET
C1.38

PCD FILE #: SF-22-42



ORIFICE PLATE AND TRASH RACK DETAIL
1"=2"

ORIFICE PLATE NOTES

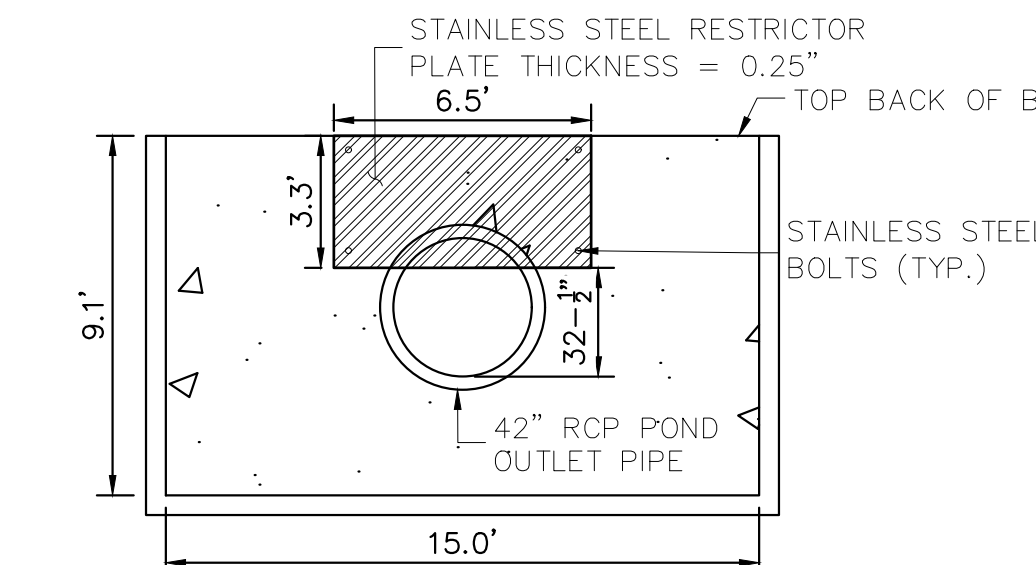
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EURV AND WQCV TRASH RACKS

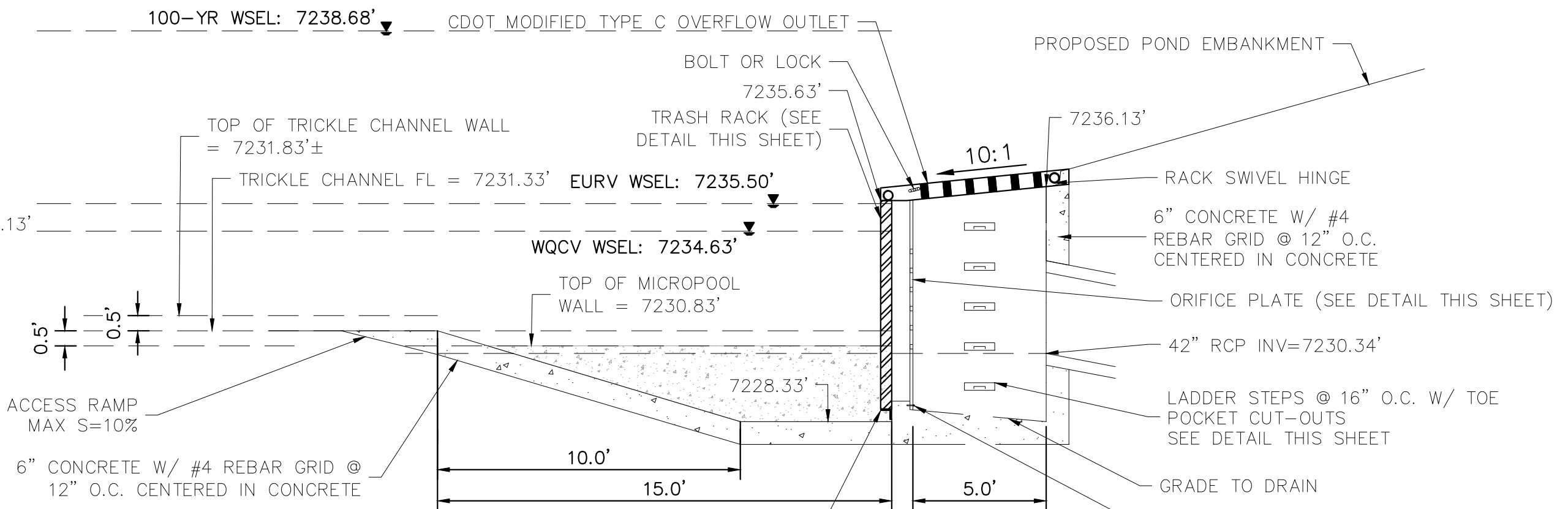
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OVERFLOW SAFETY GRATES

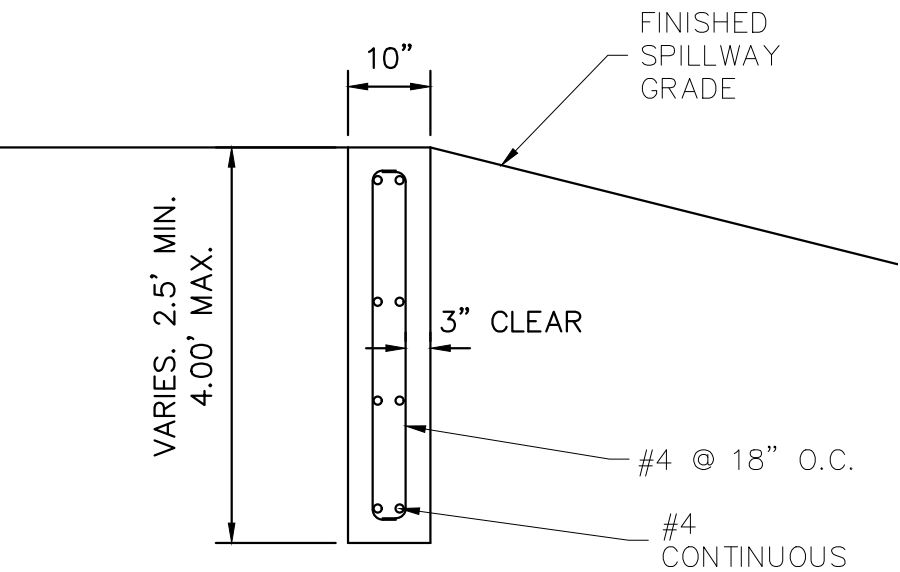
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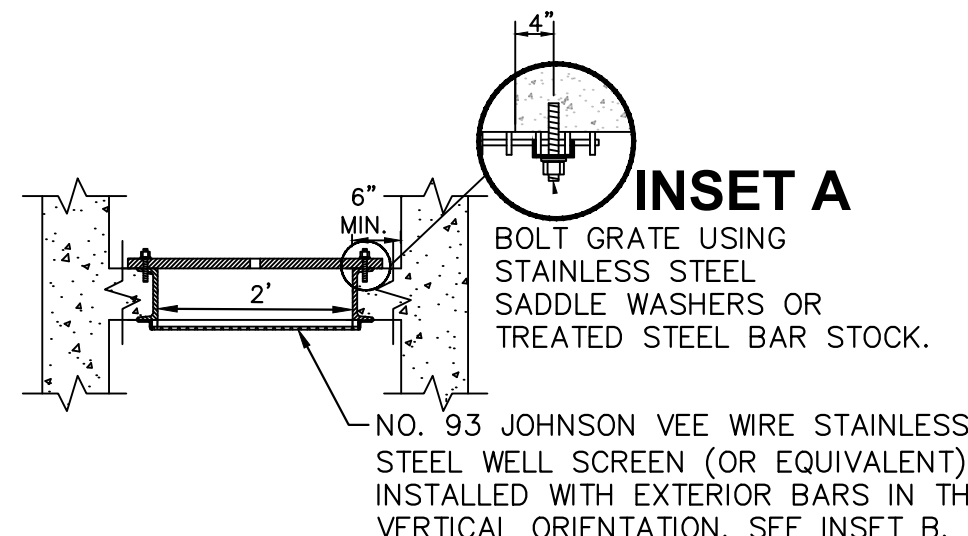
100-YEAR FLOW RESTRICTOR
1"=5"



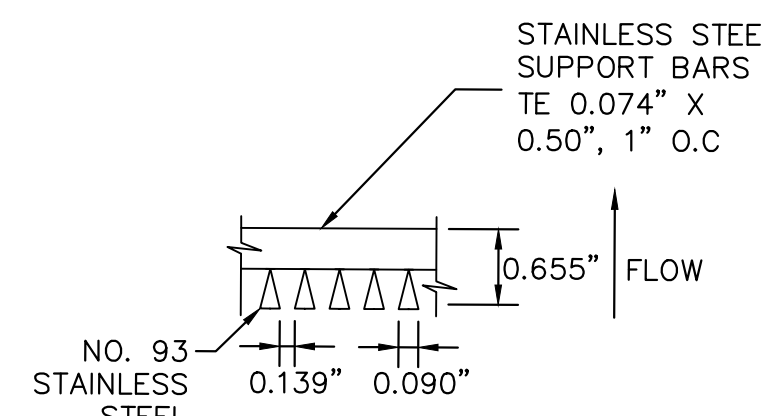
OUTLET STRUCTURE DETAIL
1"=4"



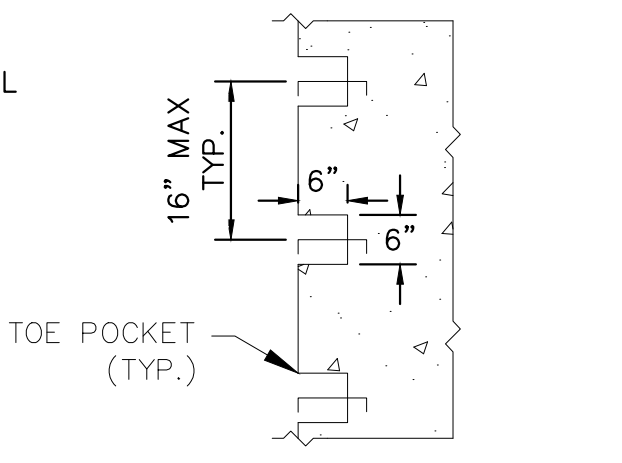
SECTION CREST WALL DETAIL
1"=2"



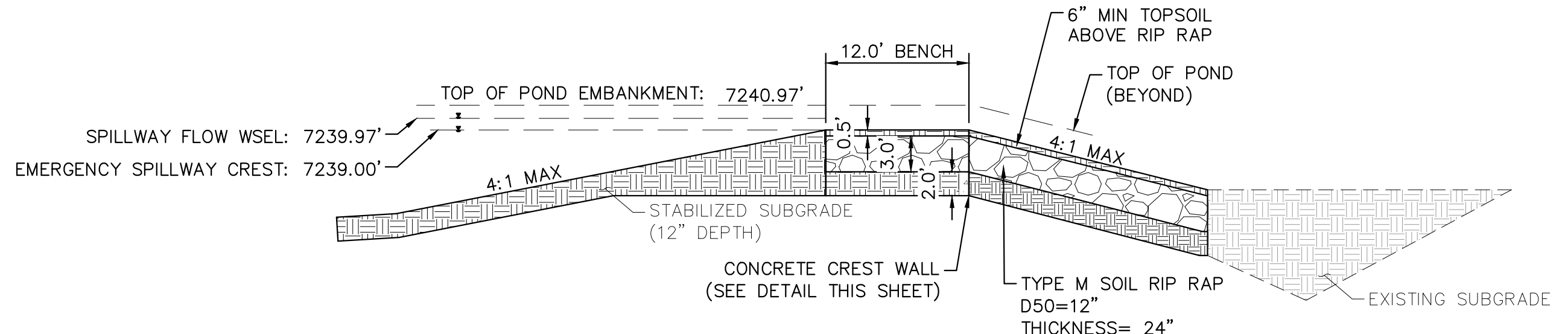
TRASH RACK
N.T.S.



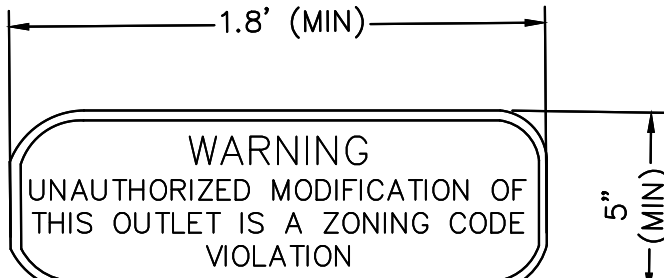
INSET B
N.T.S.



TOE POCKET DETAIL
N.T.S.

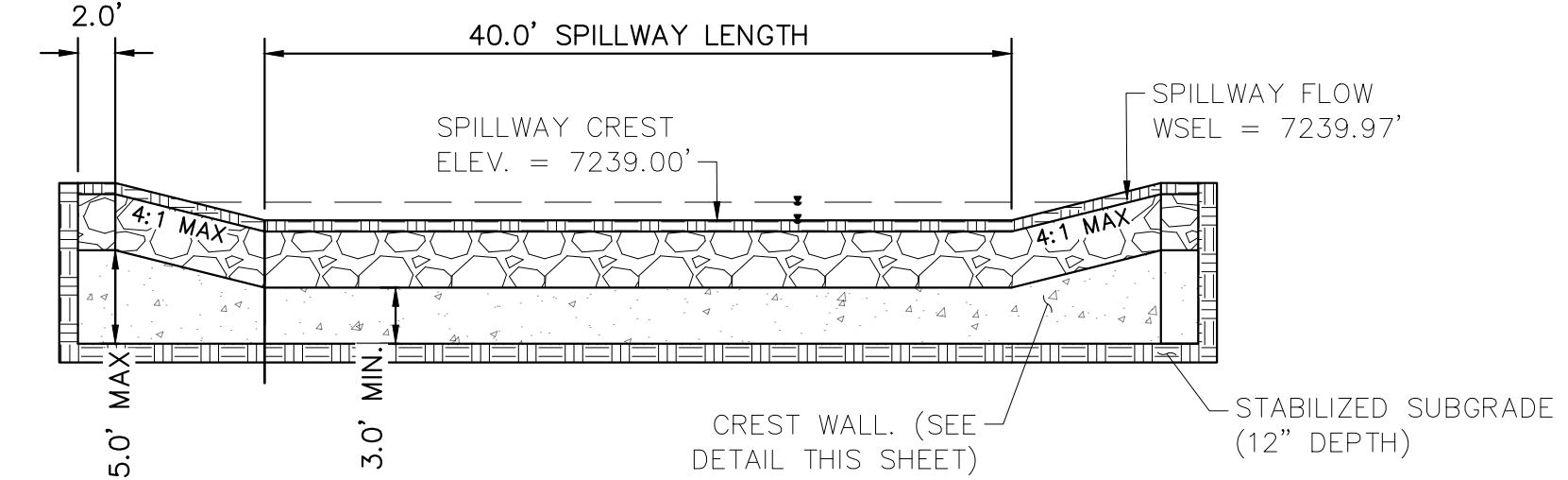


EMERGENCY SPILLWAY DETAILS
1"=10'

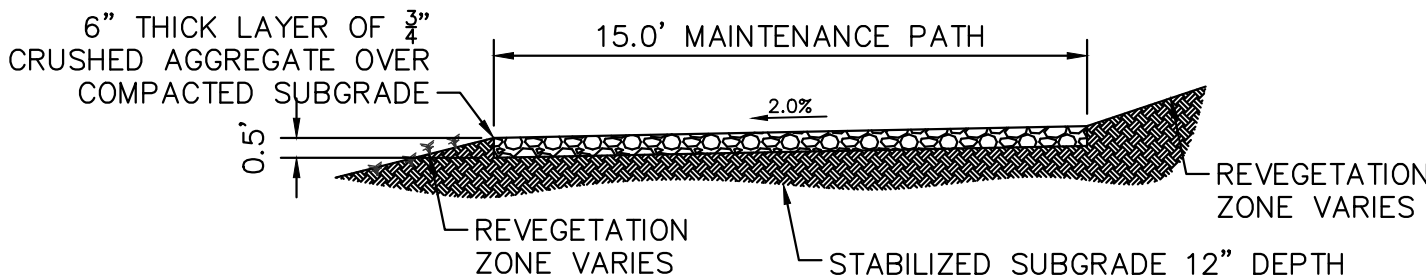


OUTLET SIGNAGE
N.T.S.

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

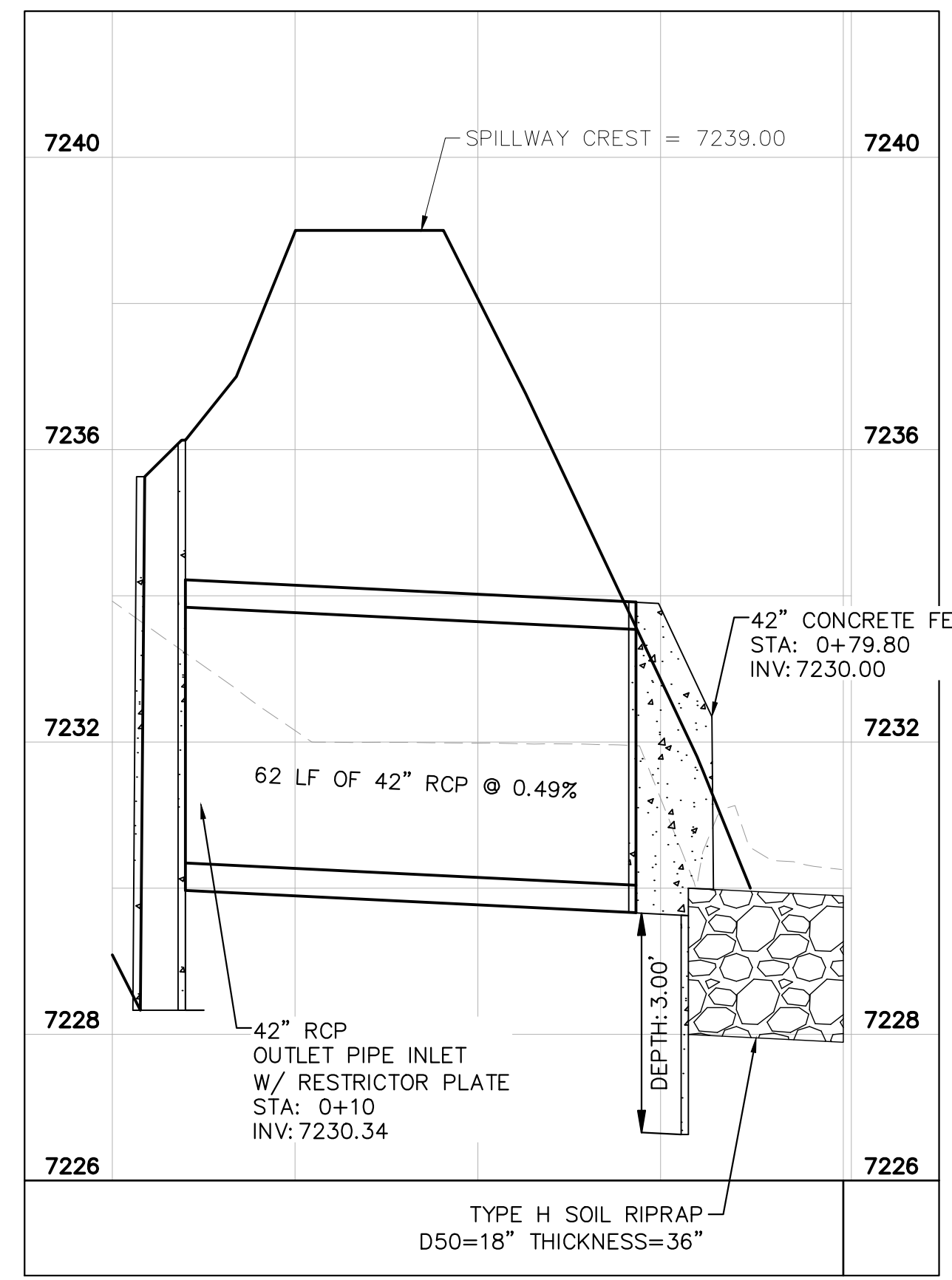


EMERGENCY SPILLWAY
1"=10'

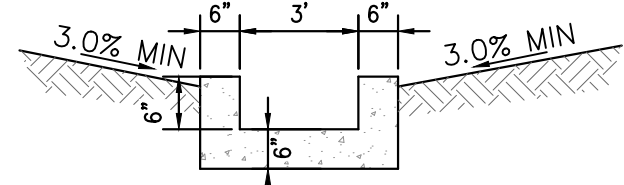


MAINTENANCE ROAD
1"=5"

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



POND #3 OUTFALL PROFILE
1"=20'



CONCRETE TRICKLE CHANNEL
1"=5"

- CONCRETE TRICKLE CHANNEL NOTES**
- * CONTRACTOR TO INSTALL CONTROL JOINTS @ 10' SPACING



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DATE: 9/17/2024

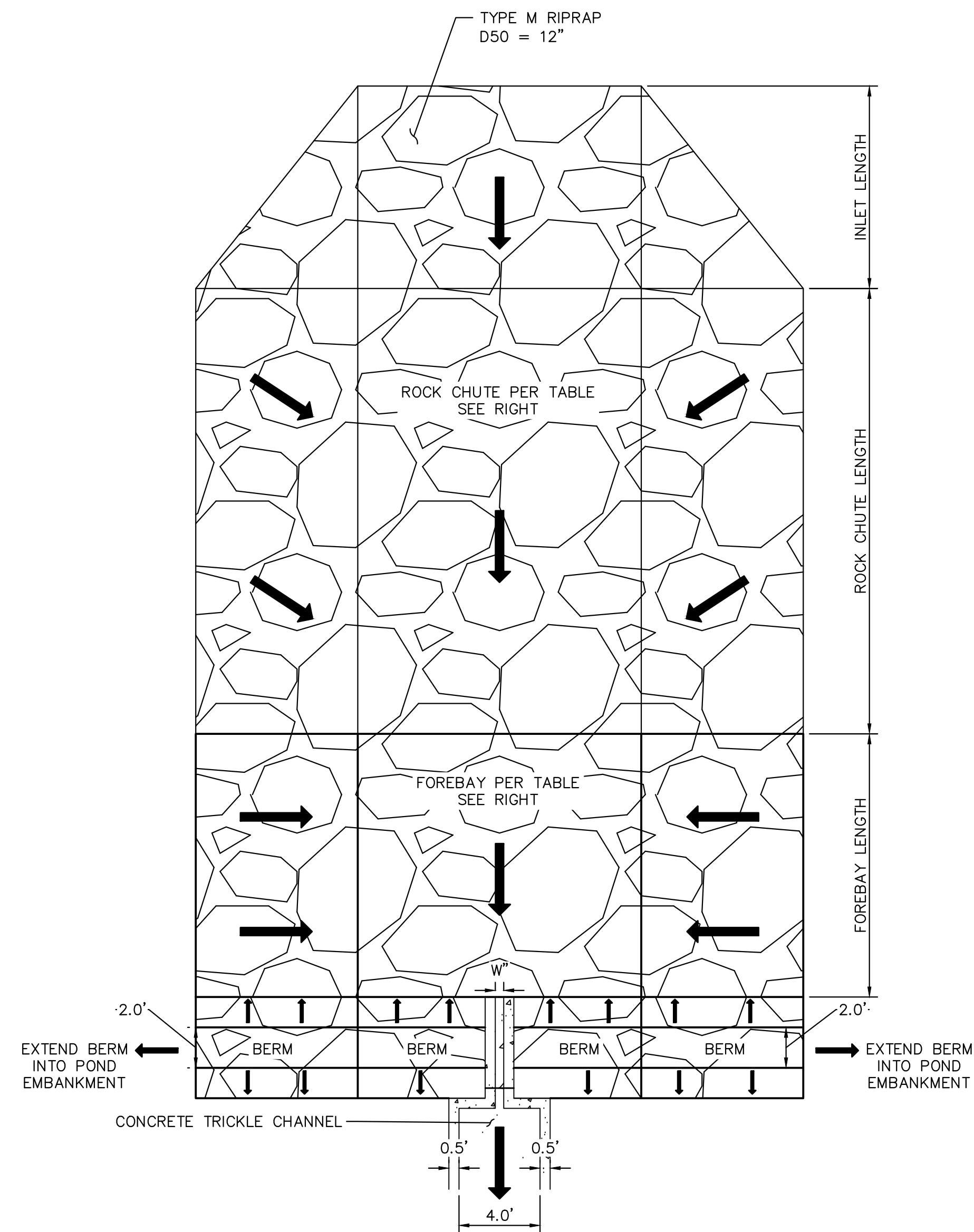
EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
POND 3 DETAILS



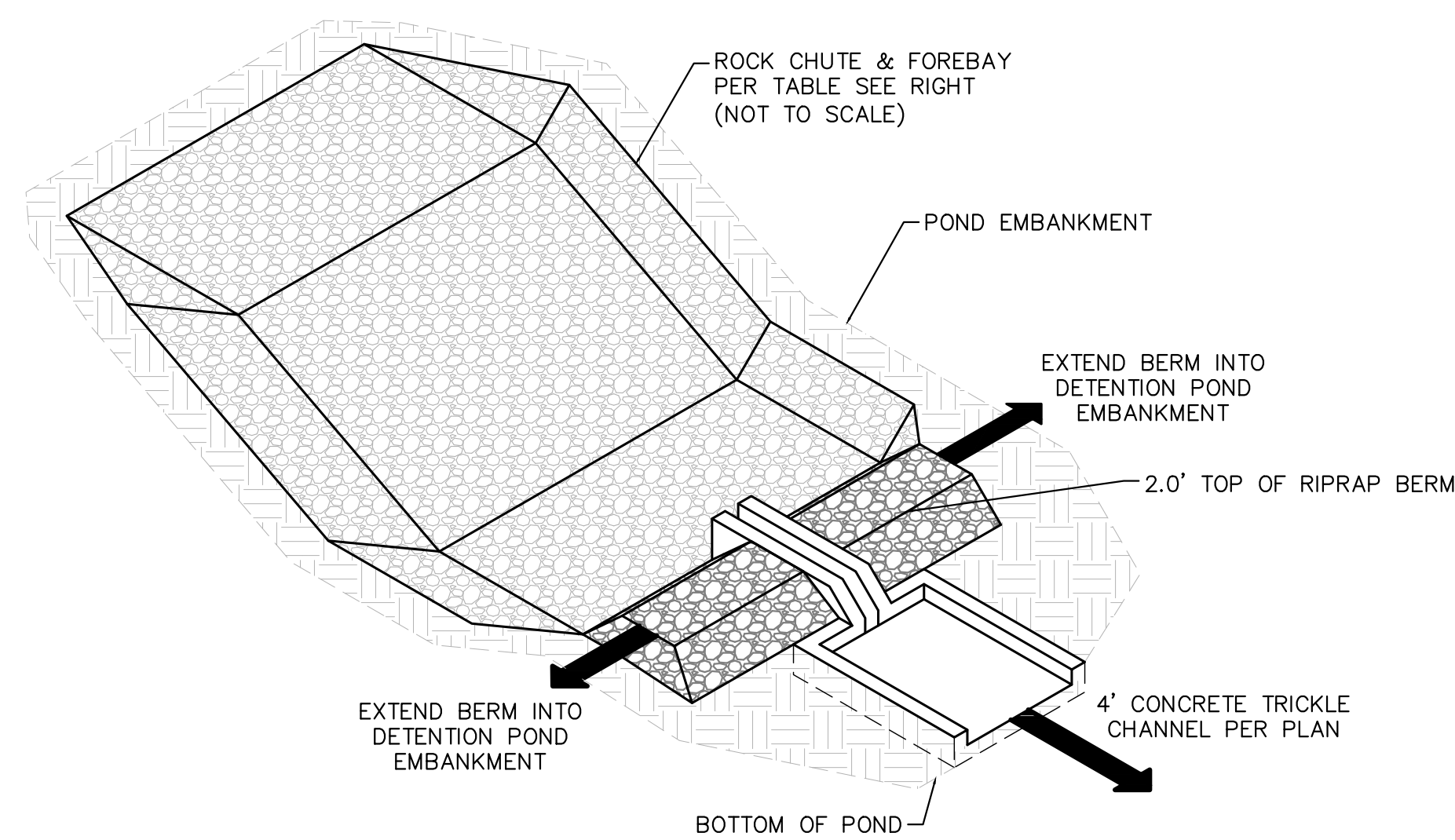
PROJECT NO.
196106001
SHEET

C1.40

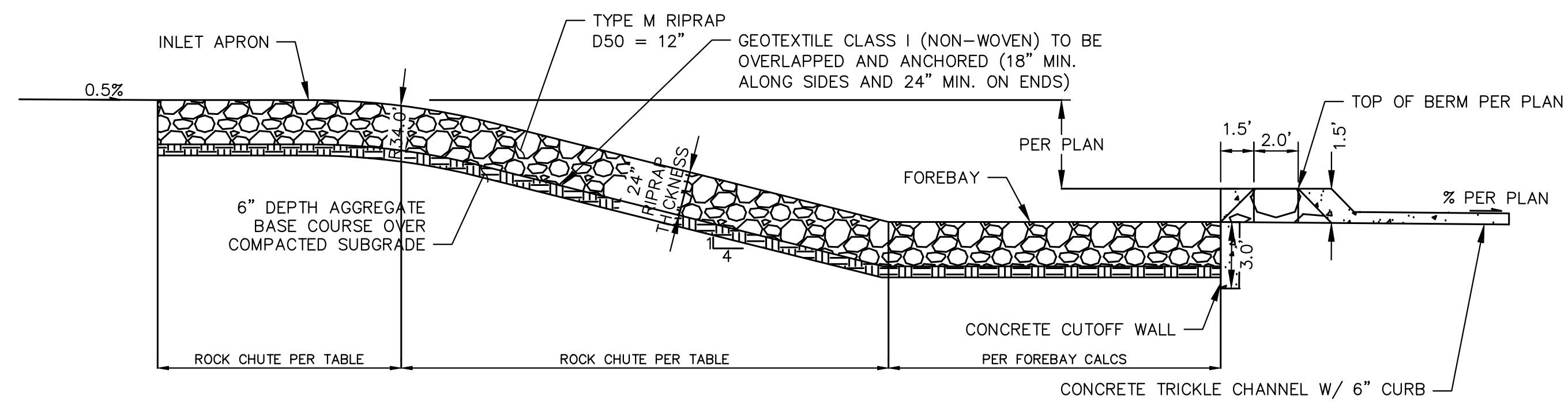
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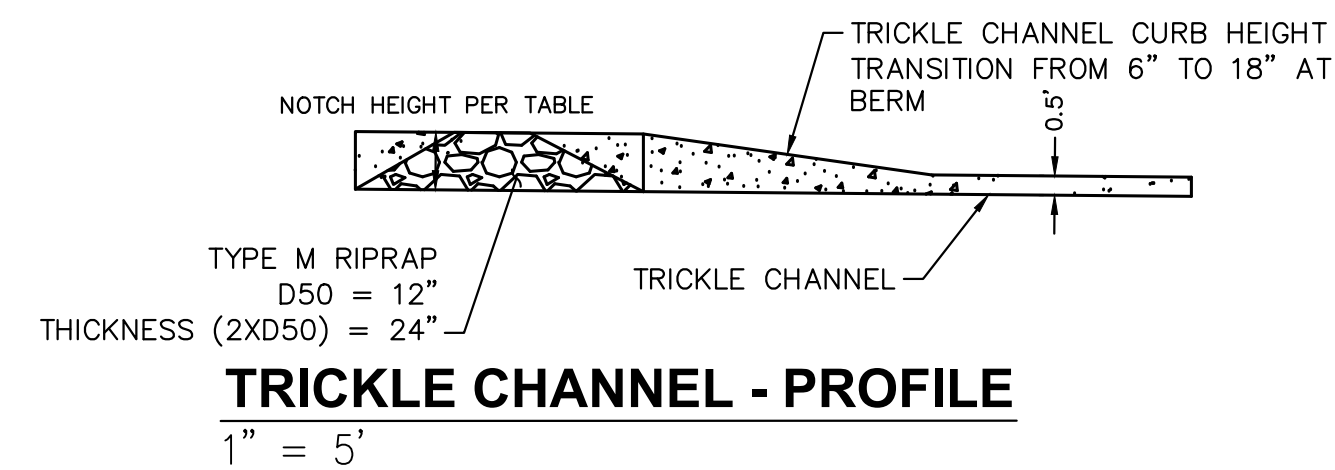
ROCK CHUTE - PLAN DETAIL
1" = 5'



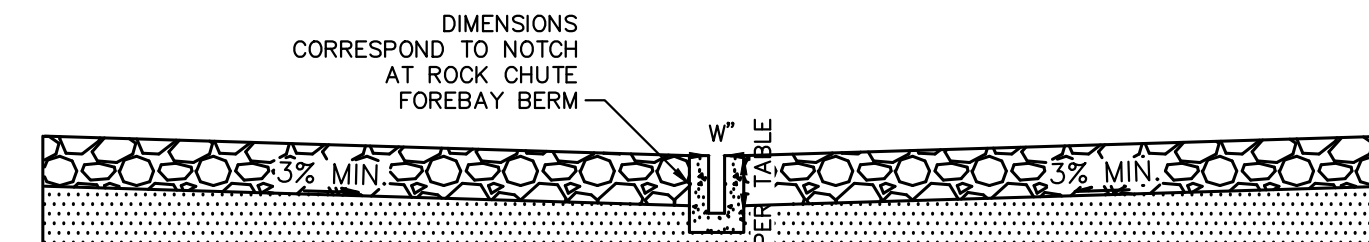
ROCK CHUTE, FOREBAY, & TRICKLE CHANNEL - ISOMETRIC DETAIL
1" = 5'



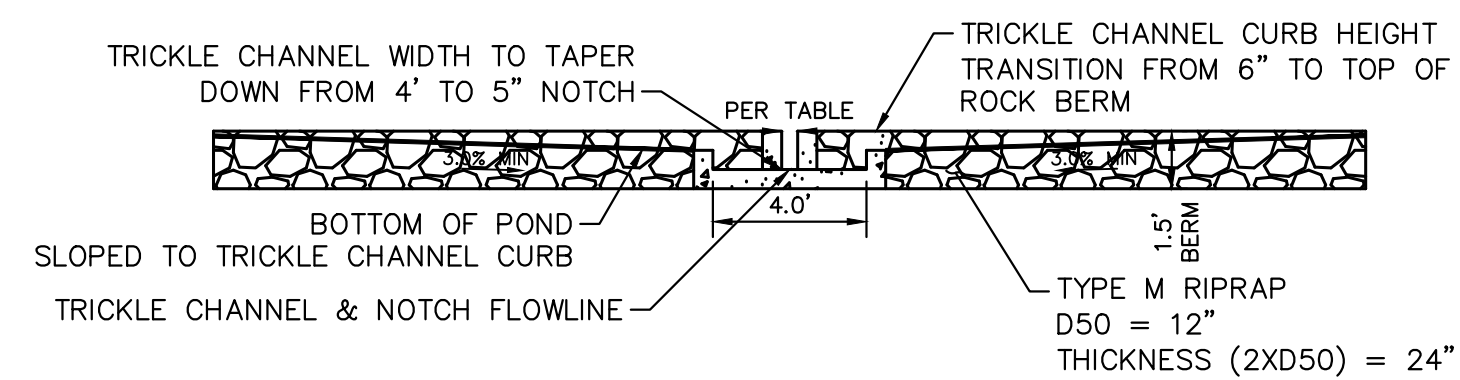
ROCK CHUTE PROFILE - POND TRICKLE CHANNEL APPLICATION
1" = 5'



TRICKLE CHANNEL - PROFILE
1" = 5'



FOREBAY NOTCH - TYPICAL SECTION
1" = 5'



ROCK CHUTE TYPICAL SECTION - FOREBAY BERM/TRICKLE CHANNEL
1" = 5'

ROCK CHUTE & FOREBAY DETAILS																	
Rock Chute ID	Pond ID	Forebay ID	Rock Chute Location	Contributing Basins	Q100 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)	Rock Chute Depth* (ft)	Top Chute Width** (ft)	Notch Width (in)	Forebay Depth (ft)	Forebay Width (ft)
1	Pond 3	A	PB8A	PB8A (60%), OB5	103	12	11	44	24	10	18	36	2.5	30	7.9	2	30
2	Pond 3	B	PB8A	PB8A (40%) OB8, PB11, PB14	20	5	10	44	7	10	12	24	1.25	20	3.8	1.5	20
3	Pond 2	A	PB14	(10%)	96	12	6	64	16	10	12	24	3.0	26	6.0	1.5	26
4	Pond 1	B	PB15	PB6, PB7, PB15(55%) OB2, OB3, OB4, PB3, PB4, PB5, PB15 (10%)	43	6	5	24	13	14	12	24	2.0	30	4.5	1.5	30
5	Pond 1	A	PB15		185	14	4	20	23	18	24	48	3.0	42	8.8	1.5	42

NOTES:

- ROCK CHUTE DEPTH ACCOUNTS FOR 0.5' OF FREEBOARD
- ROCK CHUTE WIDTH ACCOUNTS FOR 0.5' OF FREEBOARD

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2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KKK
DATE: 9/17/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
ROCK CHUTE DETAILS

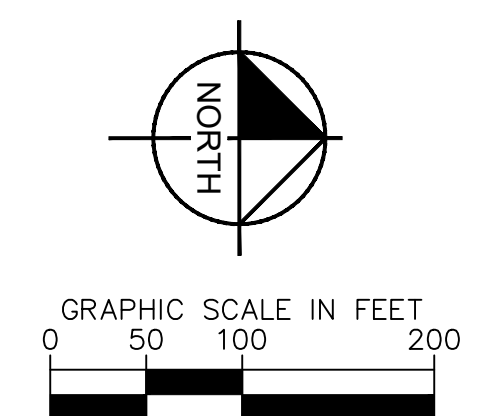
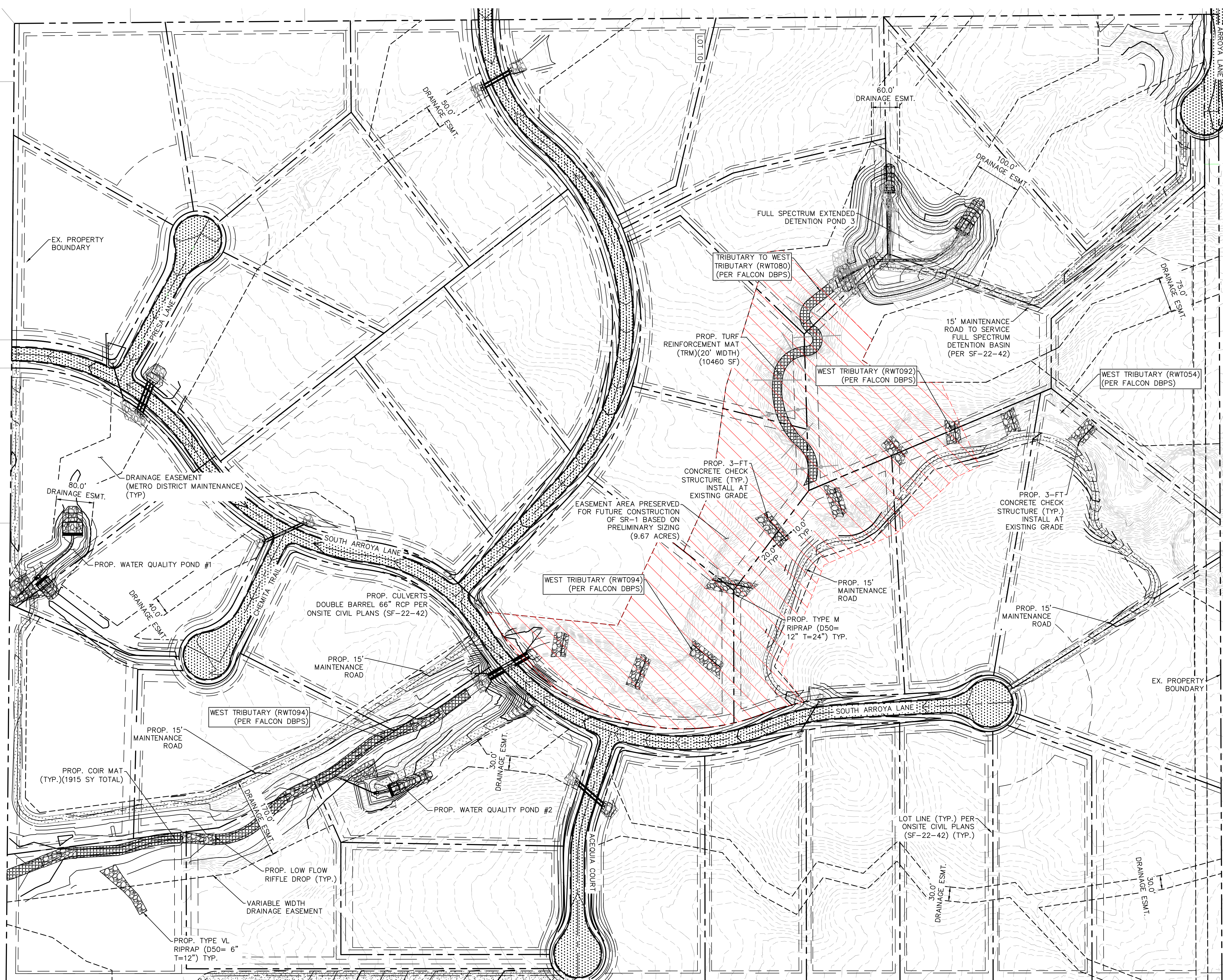


PROJECT NO.
196106001

SHEET

C1.41

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LEGEND

- EXISTING PROPERTY BOUNDARY
- XXXX- EXISTING MAJOR CONTOUR
- XXXX- EXISTING MINOR CONTOUR
- XXXXX PROPOSED MAJOR CONTOUR
- XXXXX PROPOSED MINOR CONTOUR
- [Pattern] PROPOSED RIPRAP
- [Pattern] PROPOSED STORM PIPE
- [Pattern] STORM PIPE PER ONSITE CIVIL PLANS
- [Pattern] PROP. DBPS AMENDMENT CONCRETE CHECK STRUCTURES
- [Pattern] PRESERVED AREA FOR FUTURE CONSTRUCTION OF SUB REGIONAL POND (SR1)
- [Pattern] PROP. COIR MAT SEE SHEET C1.55 FOR DETAIL

NOTES:

1. PROPOSED CONCRETE CHECK STRUCTURES SHALL SPAN THE WIDTH OF THE LOW FLOW CHANNEL AND EXTEND 10-FT INTO EACH BANK.

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
OVERALL DRAINAGE IMPROVEMENTS

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Kimley-Horn and Associates, Inc.

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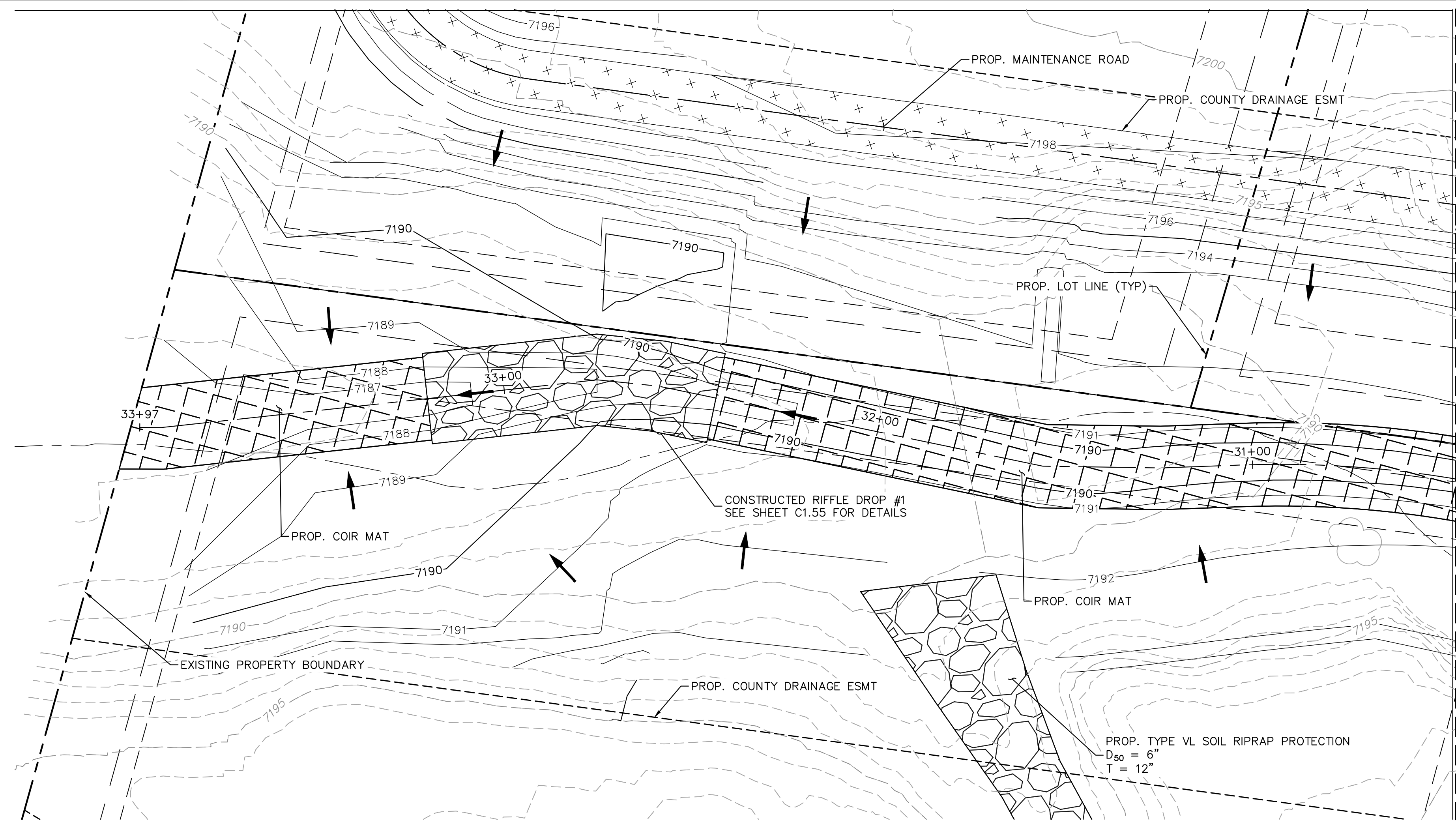
PROJECT NO.
196288000
SHEET
C1.42

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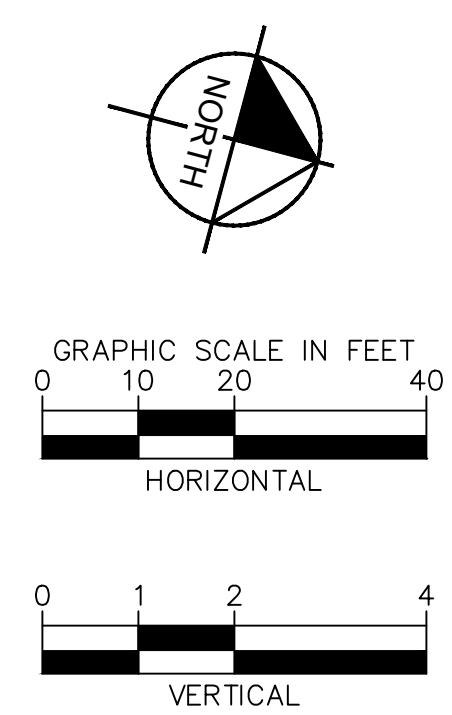
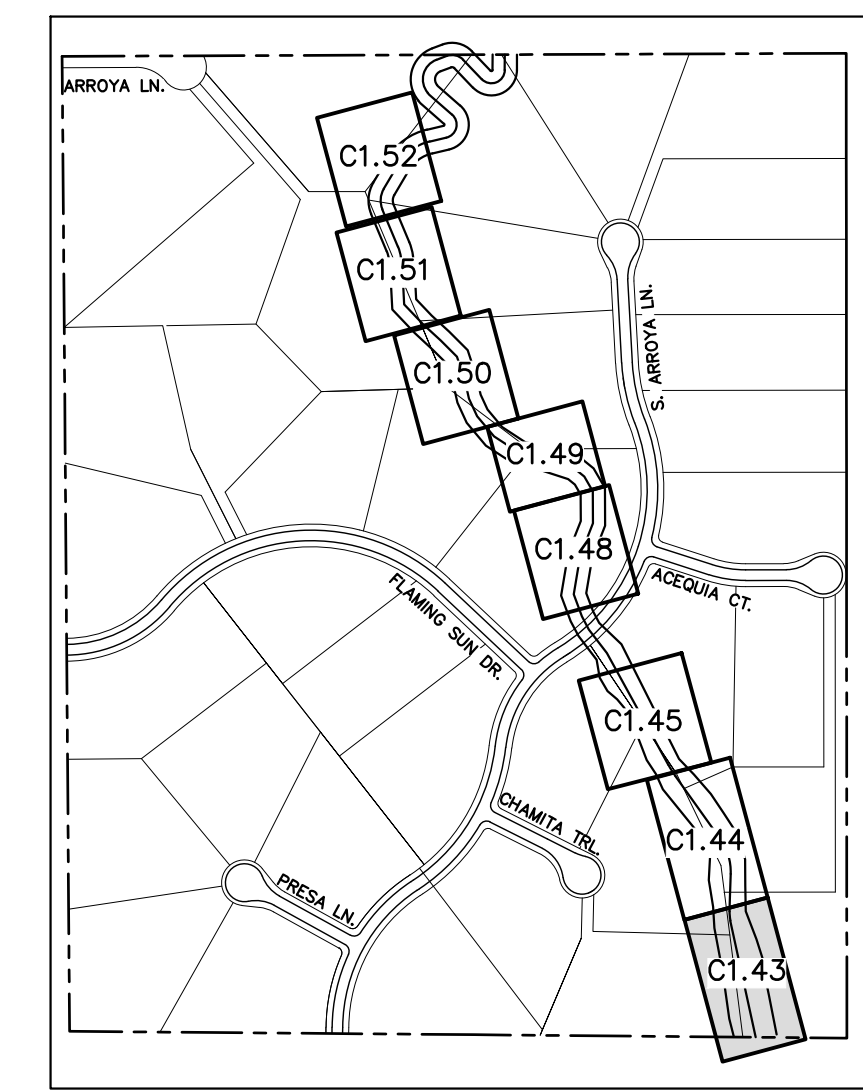
2024 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 900
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: DCM
DRAWN BY: DCM
CHECKED BY: BAH
DATE: 5/28/2024

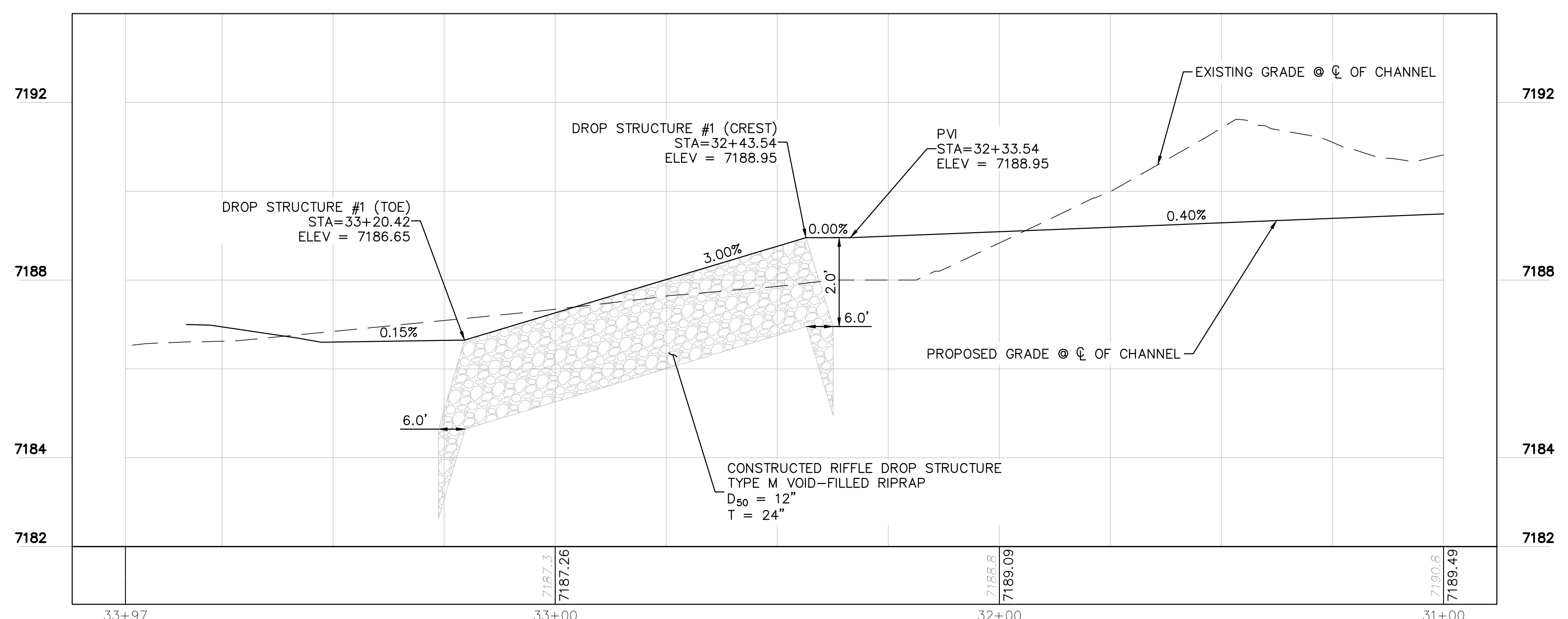
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MATCHLINE STA. 30+50 SEE SHEET C1.44



- NOTES:
1. CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.
 2. SEE SECTION (H) SHEET C1.2 FOR TYPICAL SECTION OF CHANNEL RWT094.



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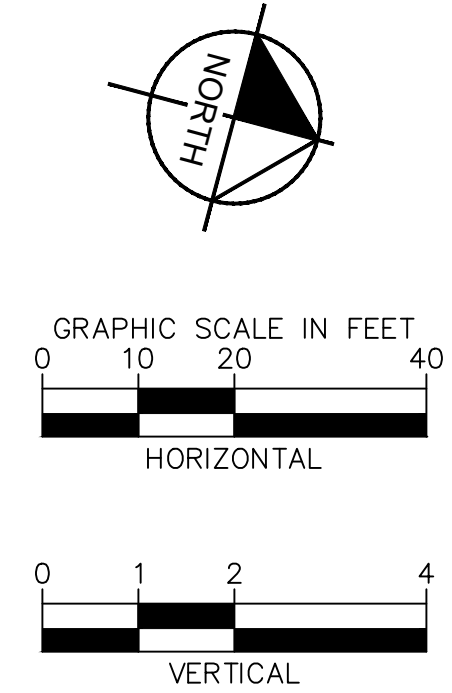
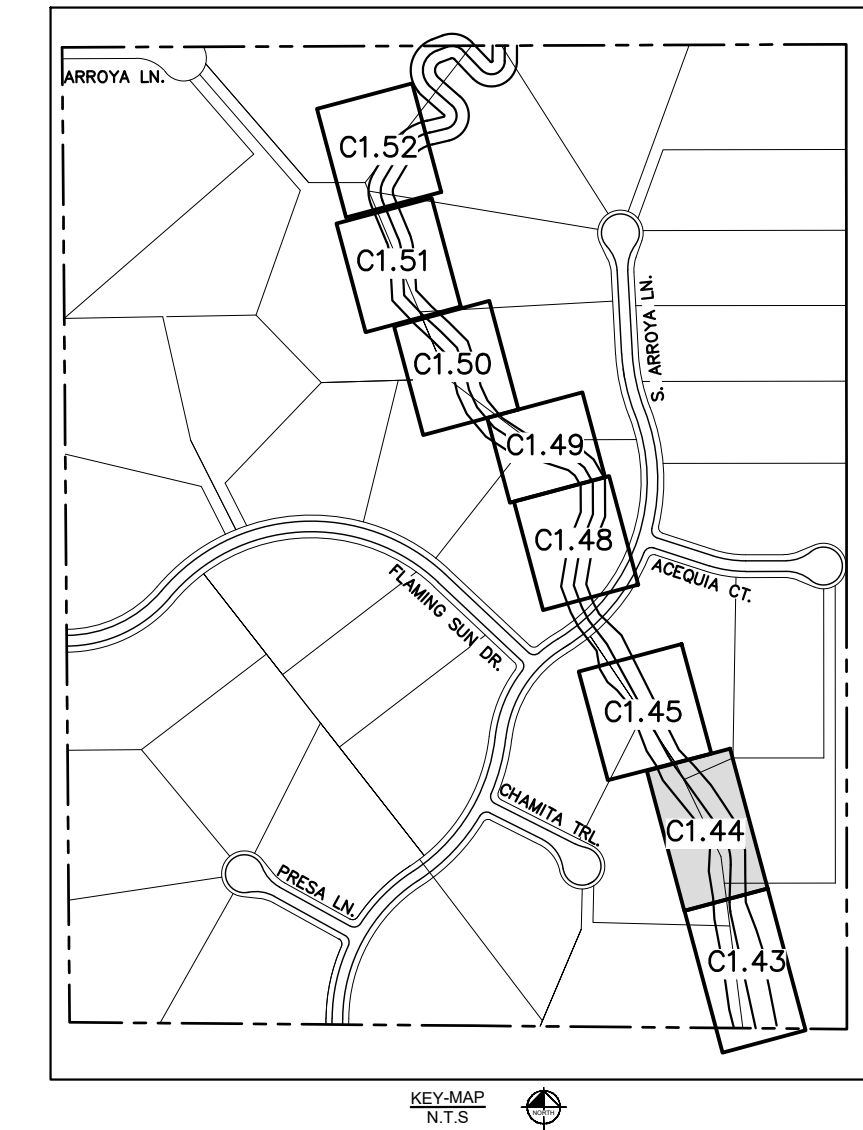
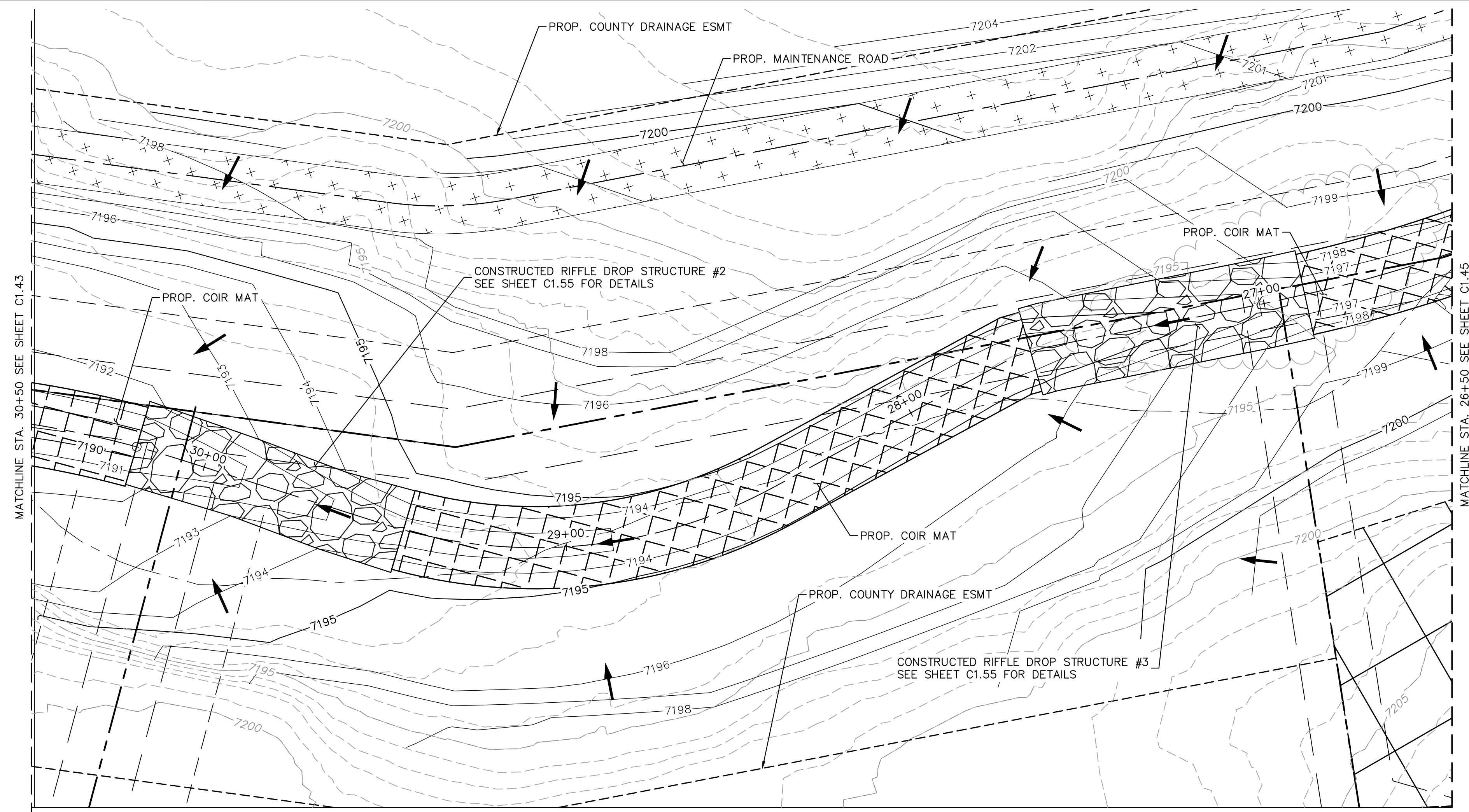
DESIGNED BY: MJK
 DRAWN BY: MJK
 CHECKED BY: KKK
 DATE: 04/04/2024

EAGLEVIEW
 EL PASO COUNTY, COLORADO
 CONSTRUCTION DOCUMENTS
SOUTH CHANNEL PLAN & PROFILE

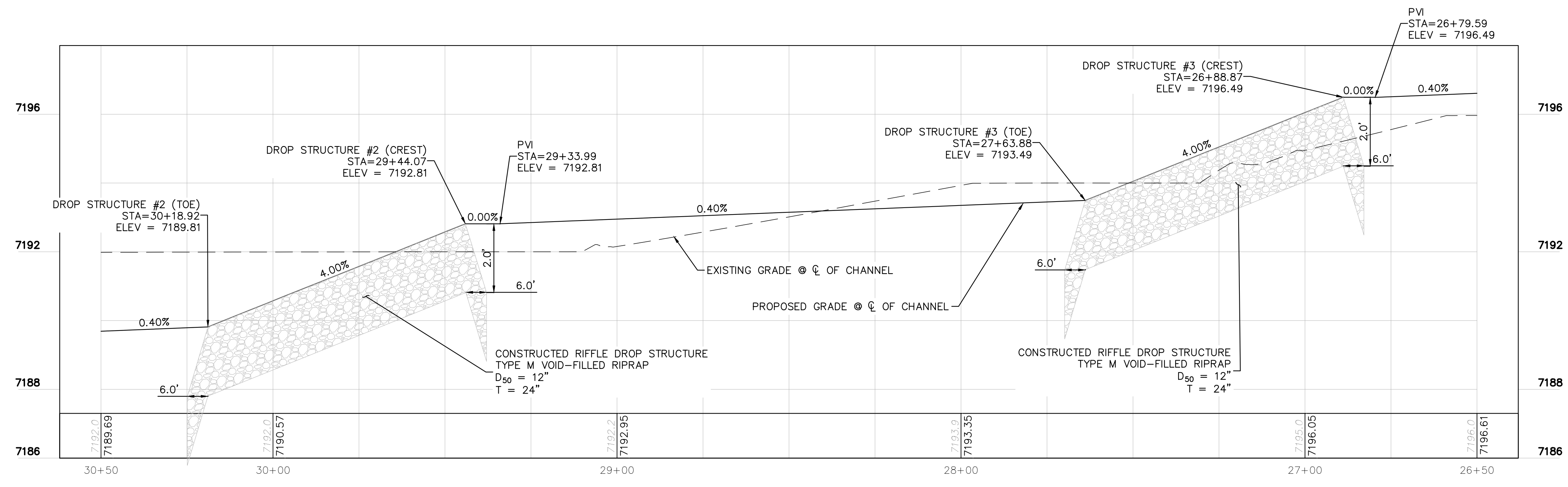
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 Kimley-Horn and Associates, Inc.

PROJECT NO.
 196106001
 SHEET
C1.43

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- NOTES:
- CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.
 - SEE SECTION (H) SHEET C1.2 FOR TYPICAL SECTION OF CHANNEL RWT094.



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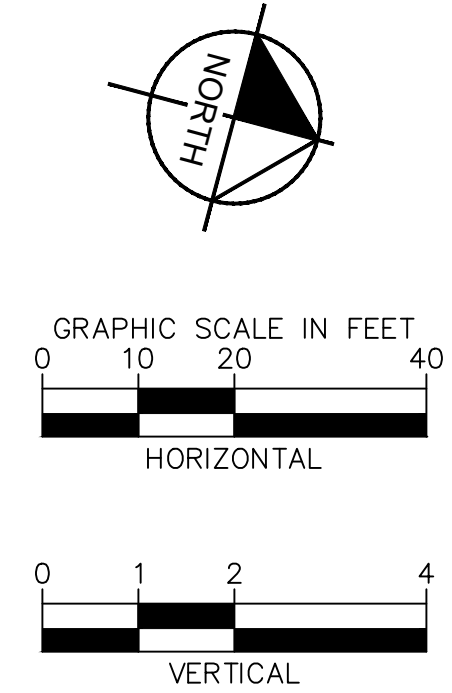
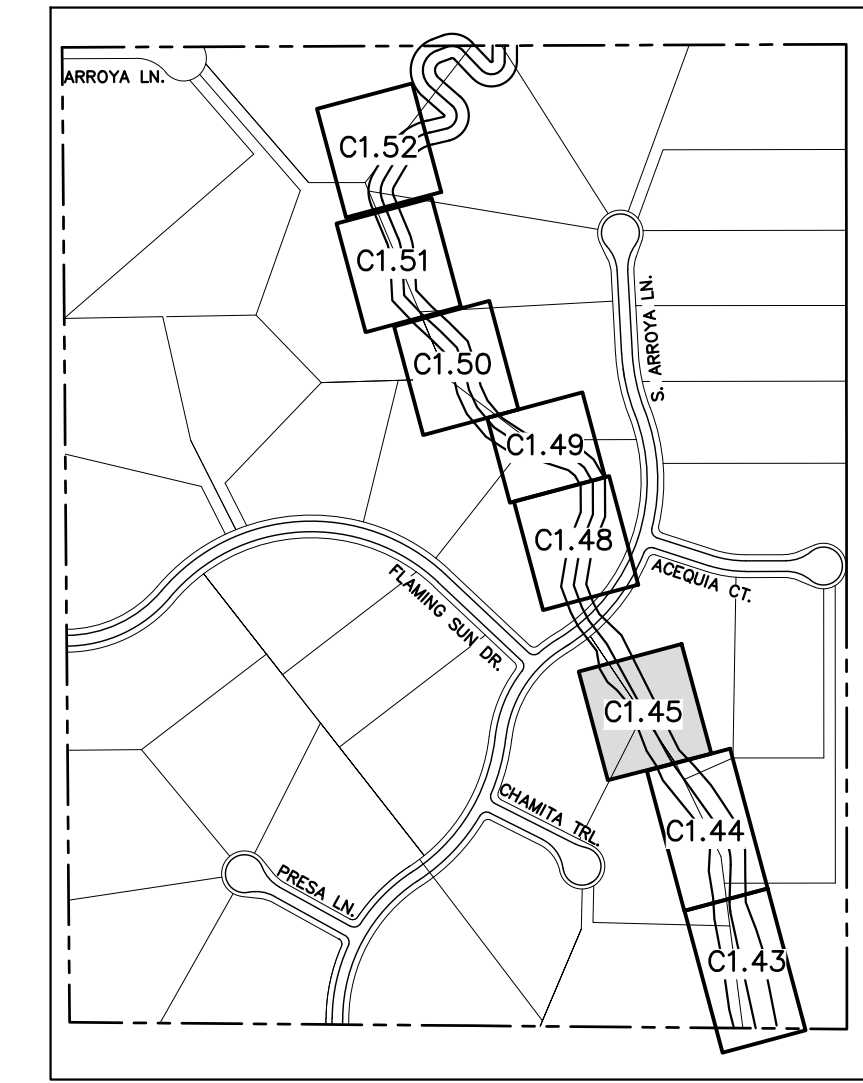
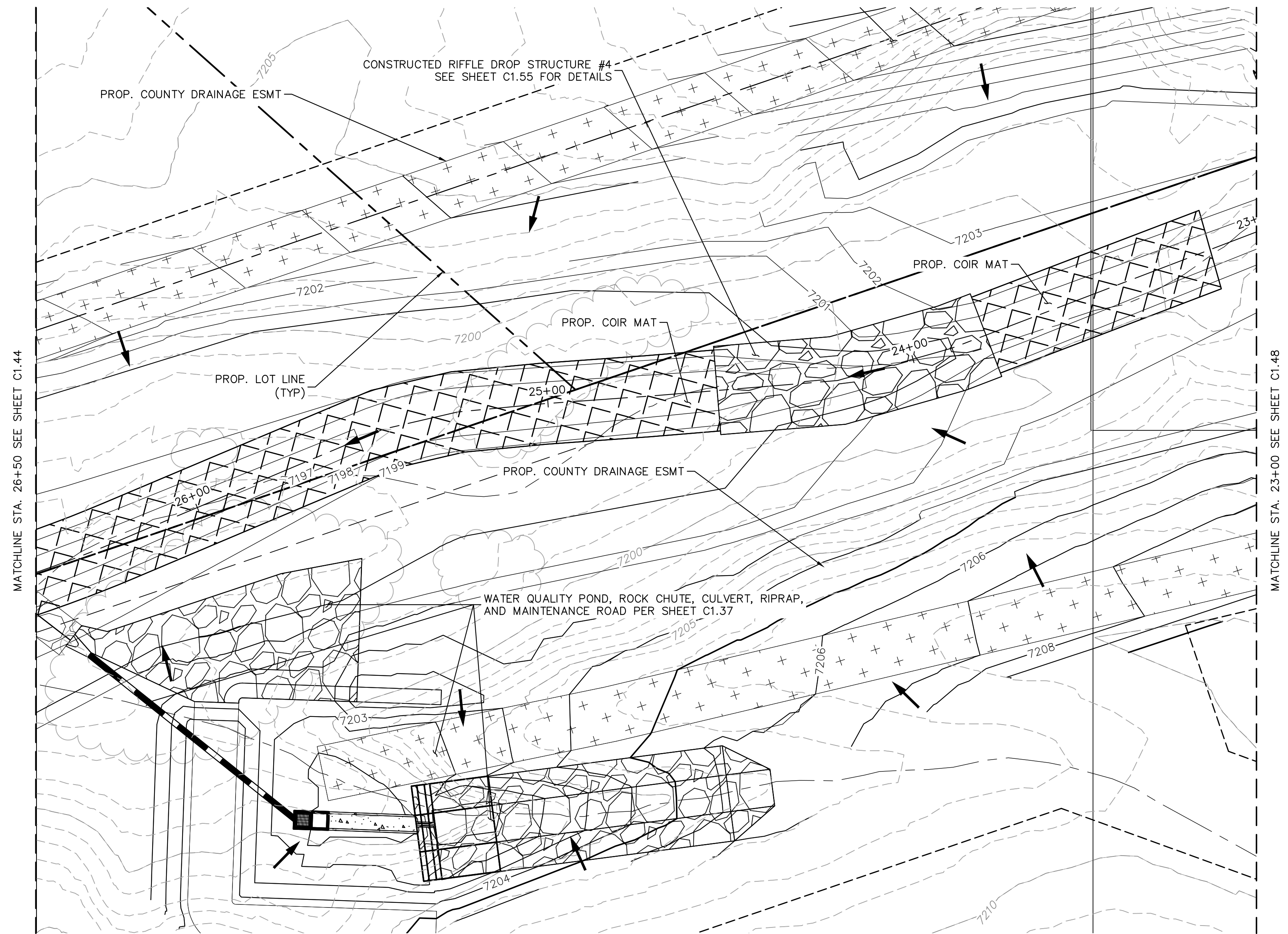
DESIGNED BY: MJK
DRAWN BY: MJK
CHECKED BY: KKK
DATE: 04/04/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
SOUTH CHANNEL PLAN & PROFILE

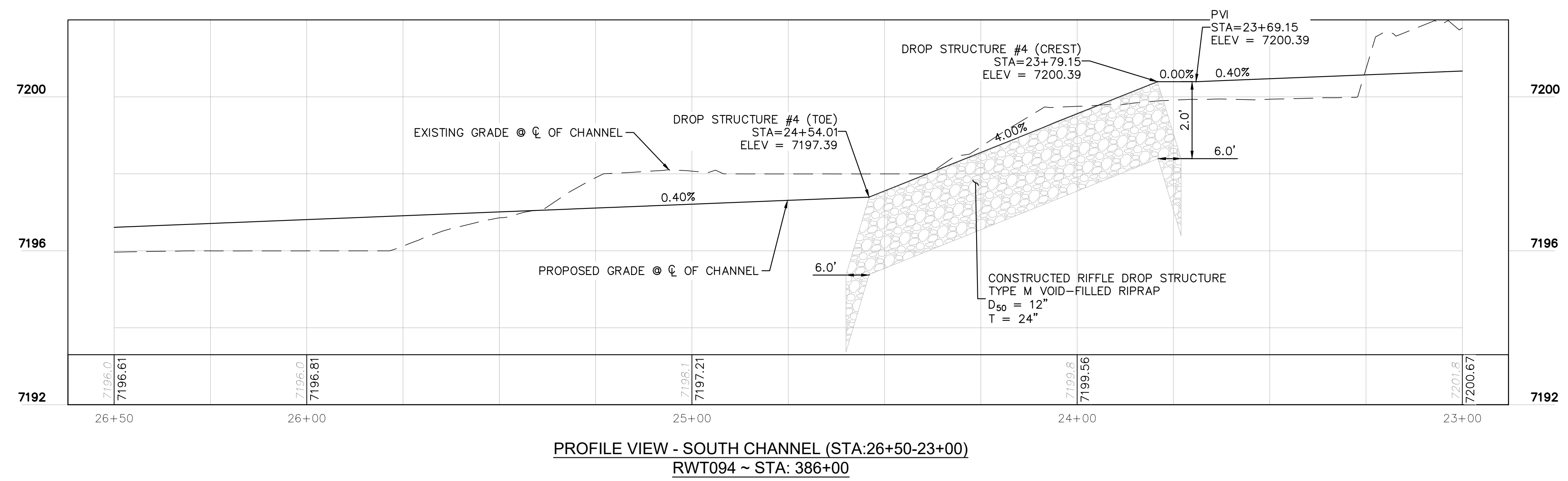
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PROJECT NO.
196106001
SHEET
C1.44

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- NOTES:
1. CHANNEL INVERT SHOWN IN PROFILE VIEW IS THE ELEVATION OF THE LOW FLOW CHANNEL.
 2. SEE SECTION (H) SHEET C1.2 FOR TYPICAL SECTION OF CHANNEL RWT094.



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EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
SOUTH CHANNEL PLAN & PROFILE

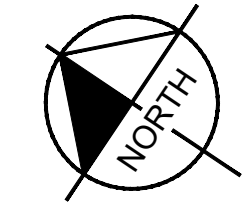
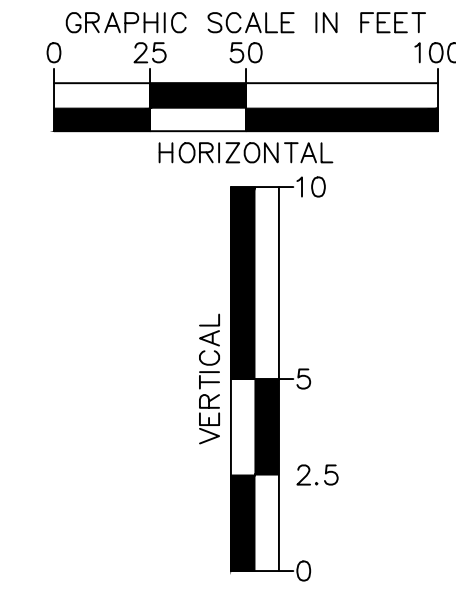
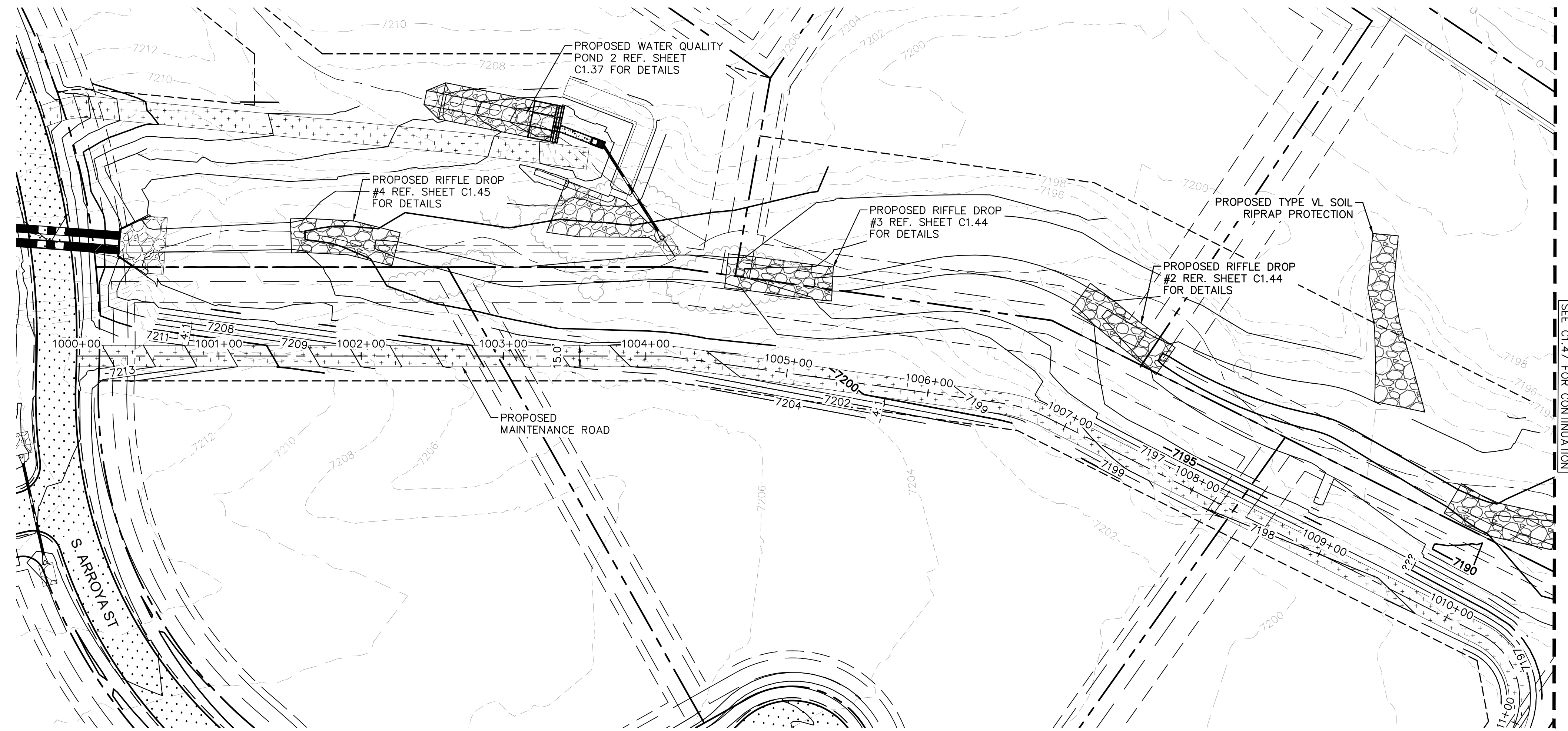
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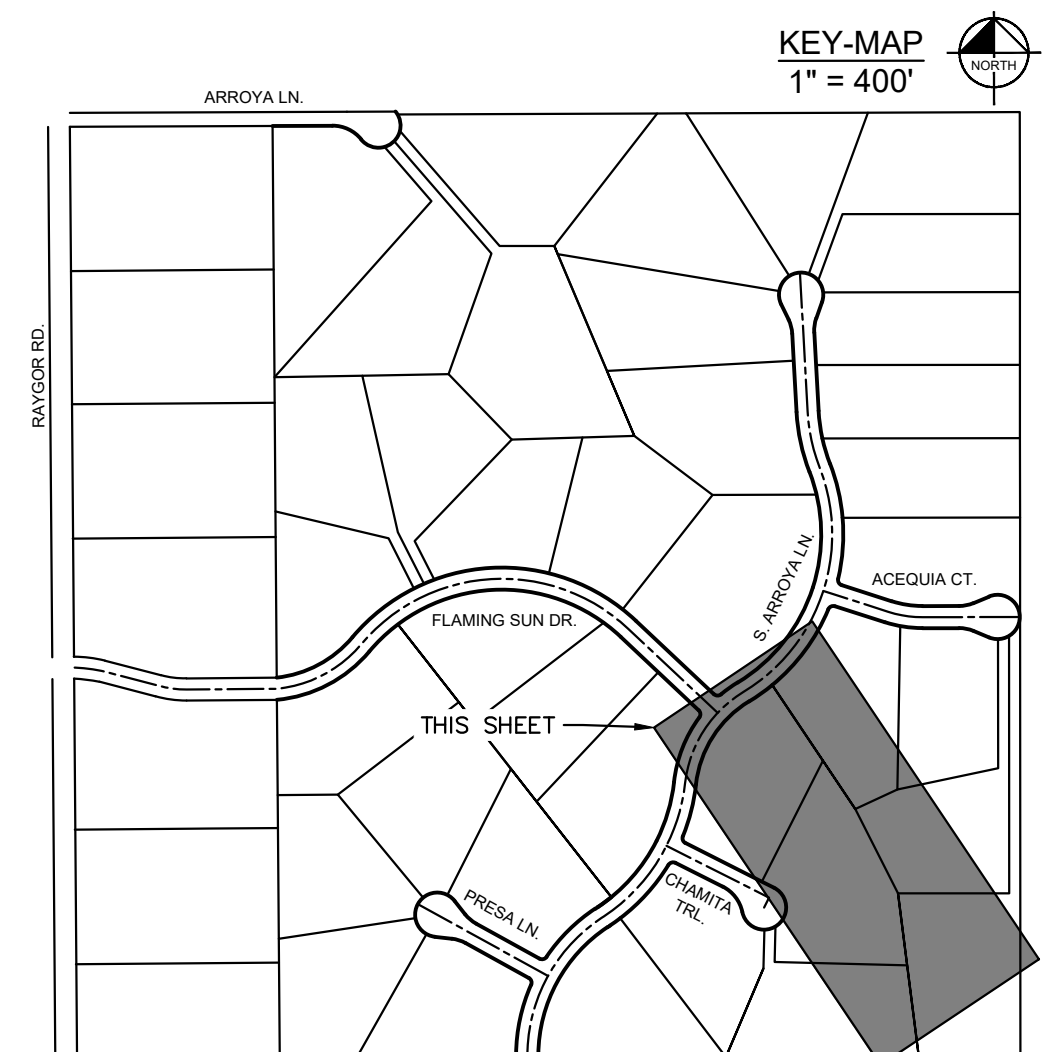
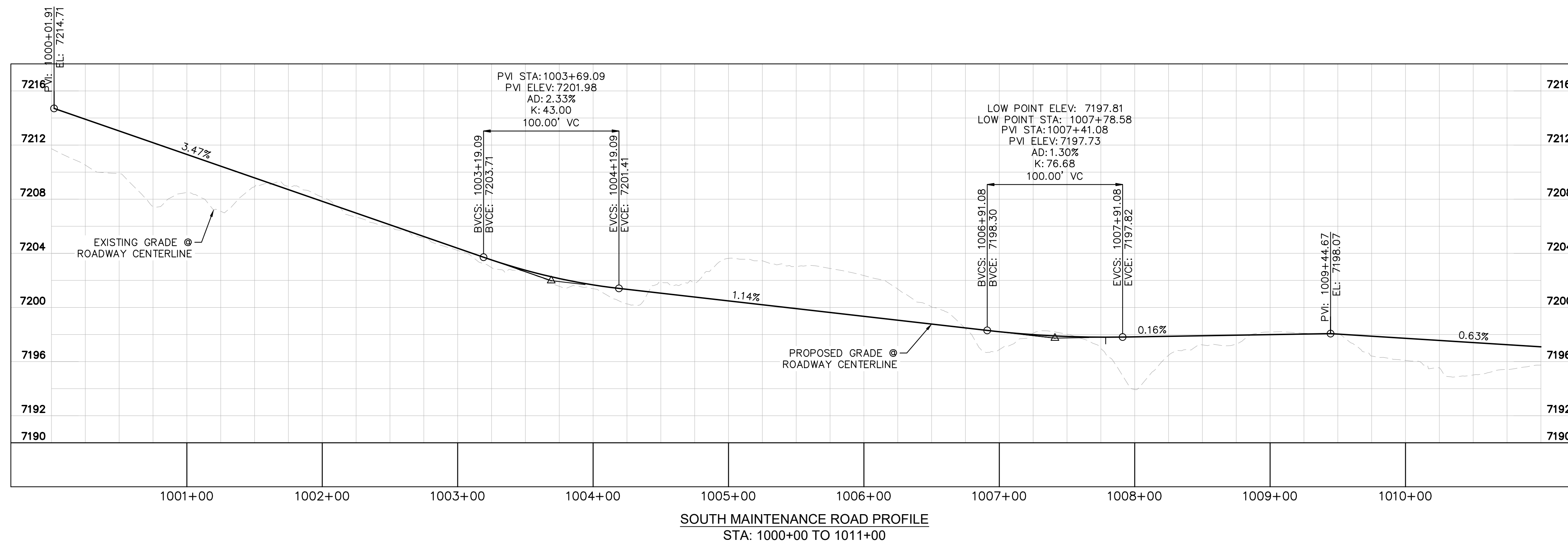
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- LEGEND**
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x- PROPOSED DRAINAGE EASEMENT
 - ▲-▲- CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER



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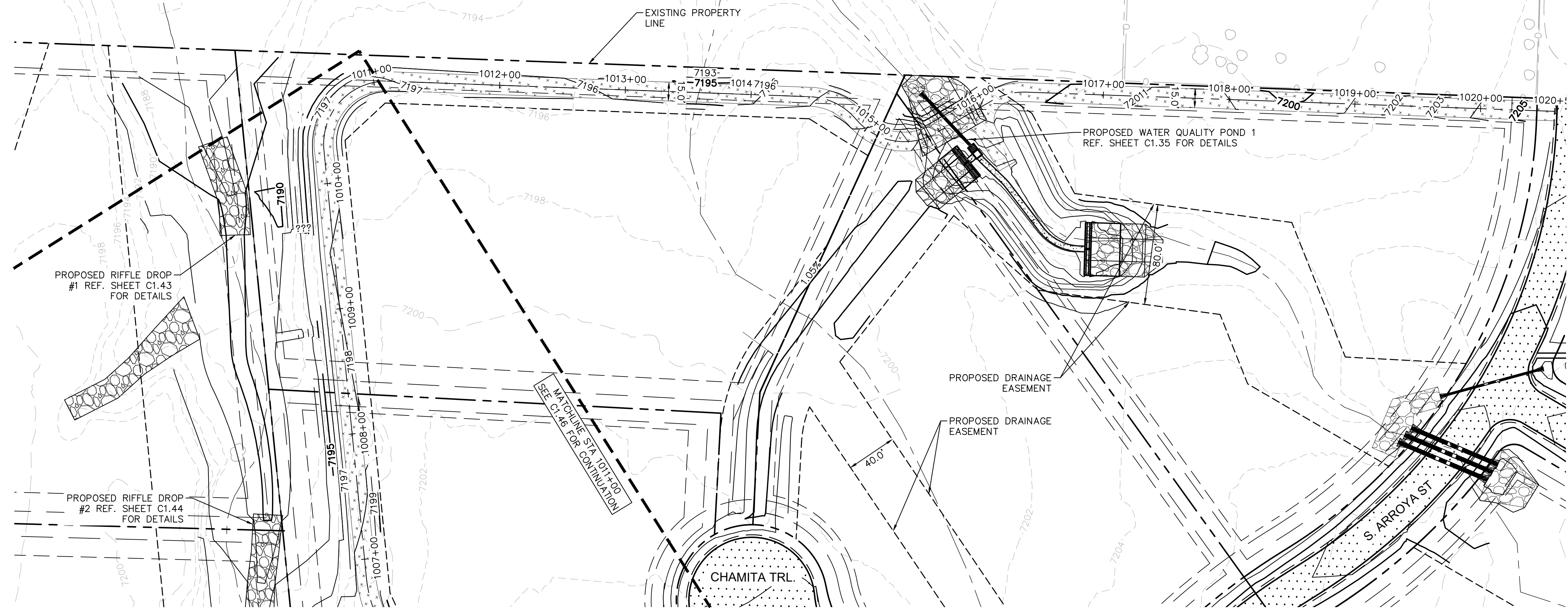
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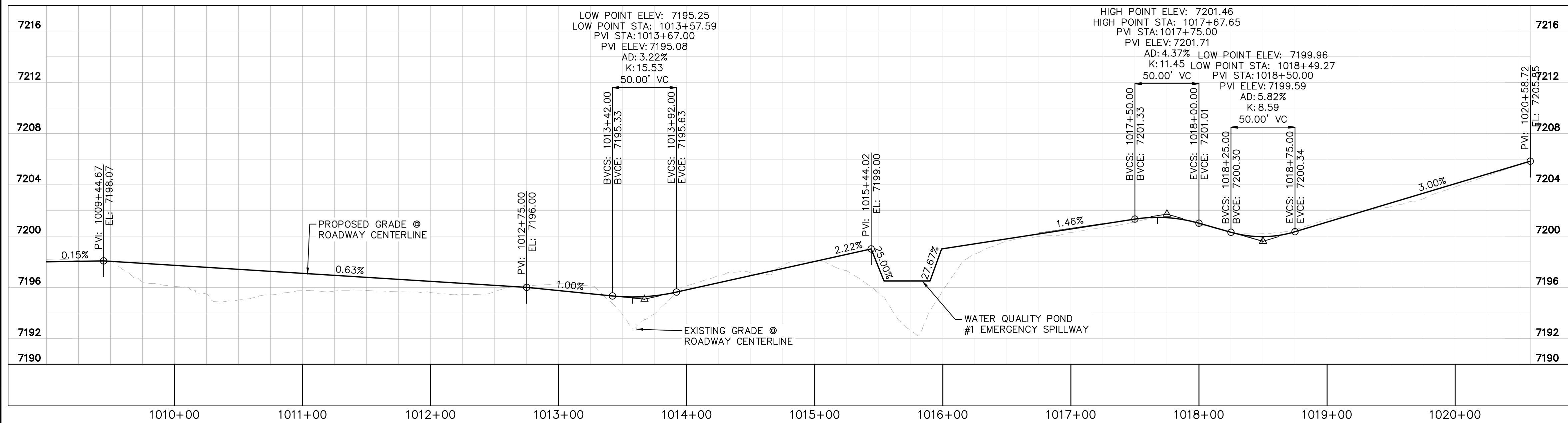
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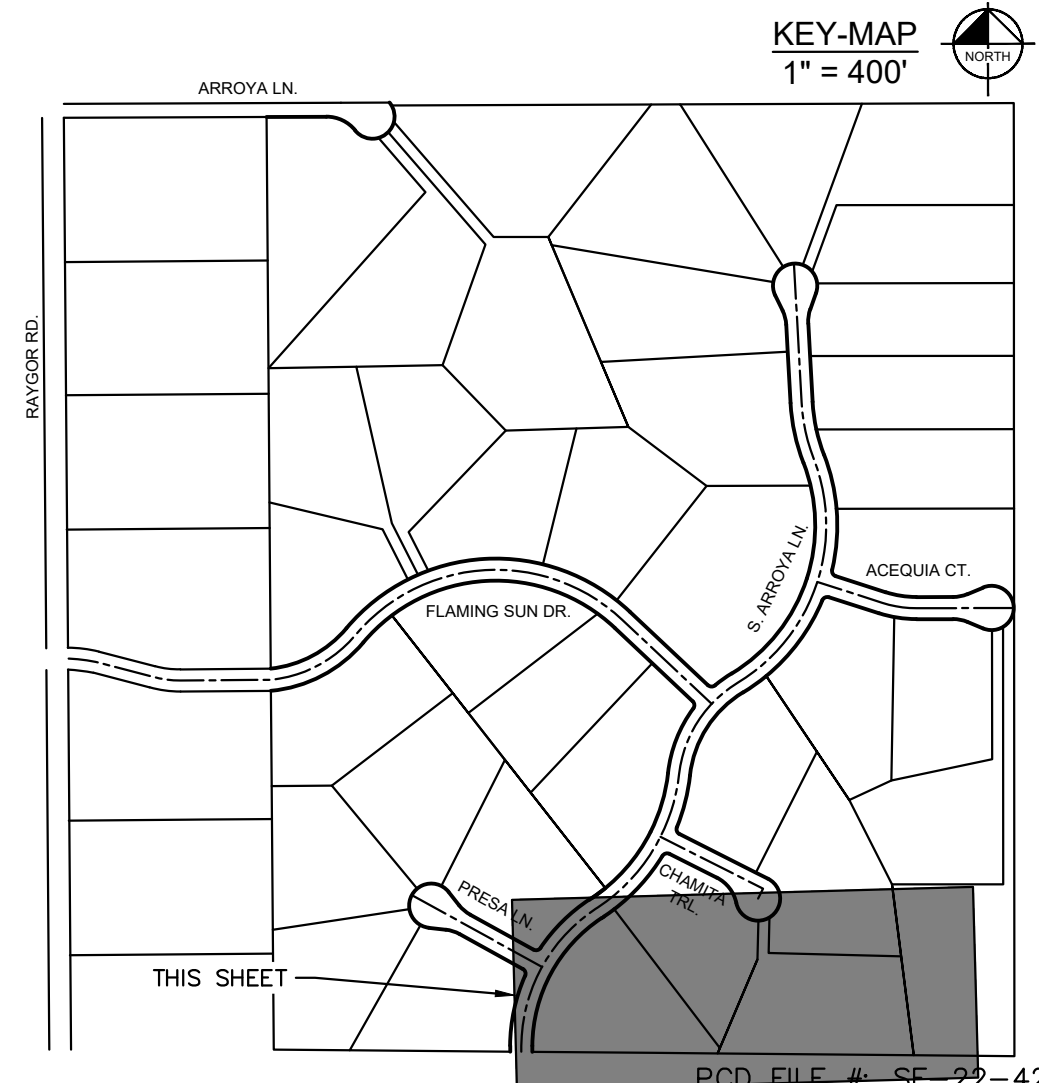
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SOUTH MAINTENANCE ROAD PLAN VIEW



SOUTH MAINTENANCE ROAD PROFILE
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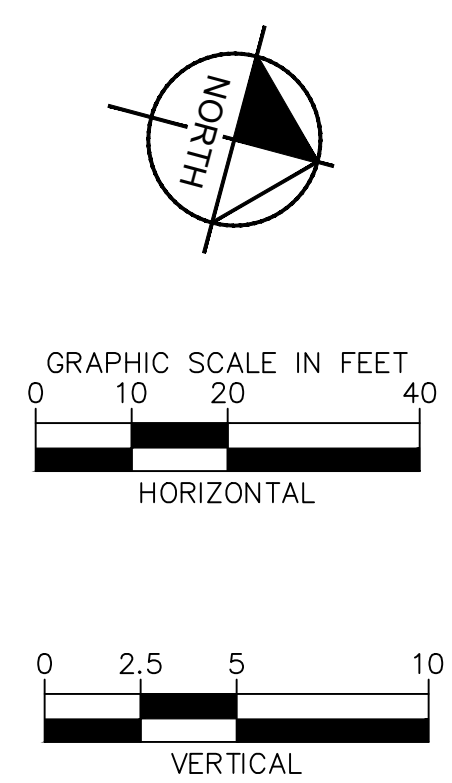
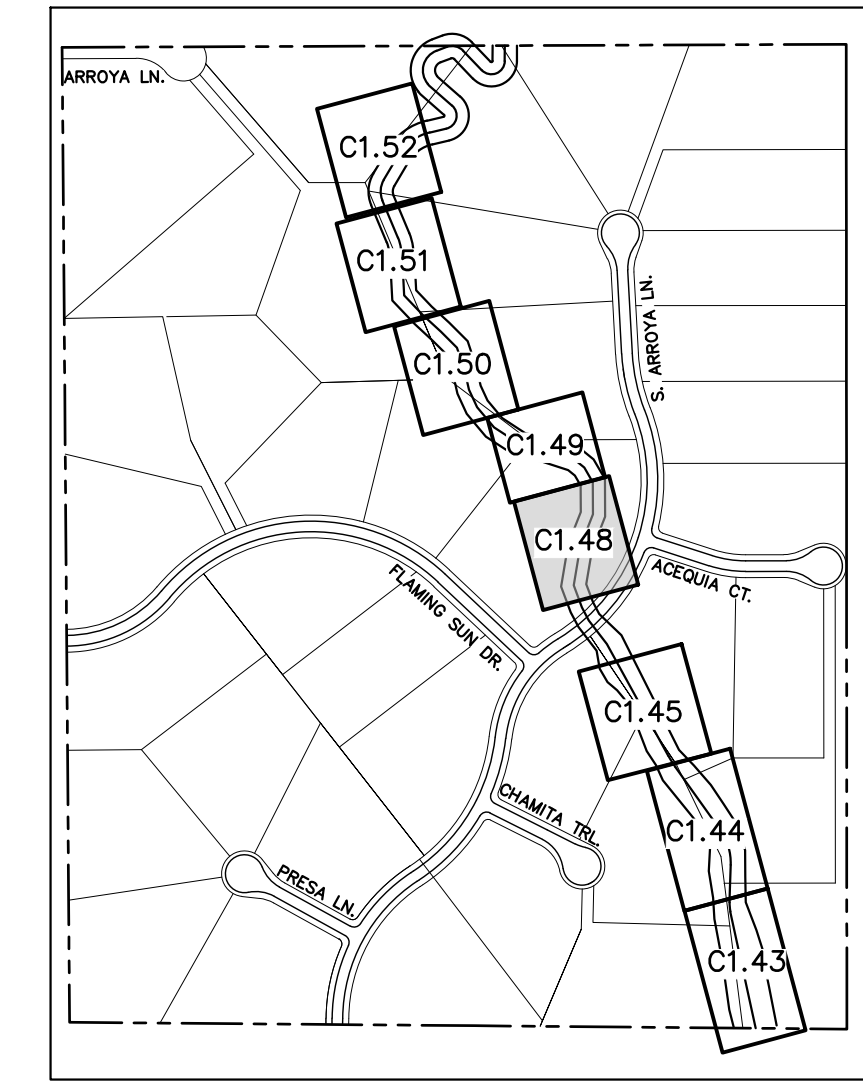
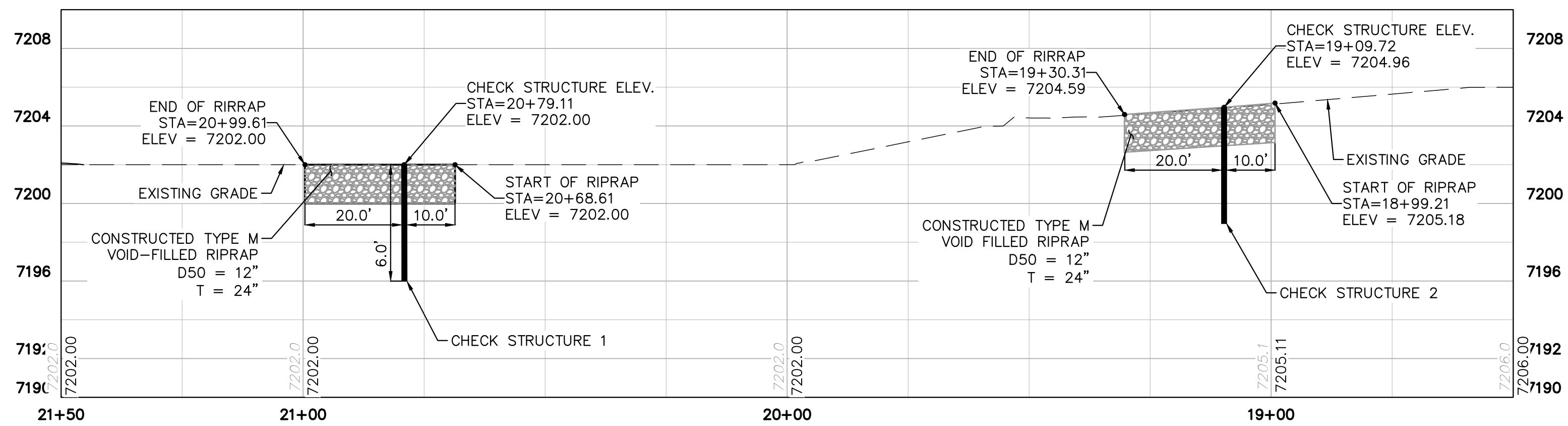
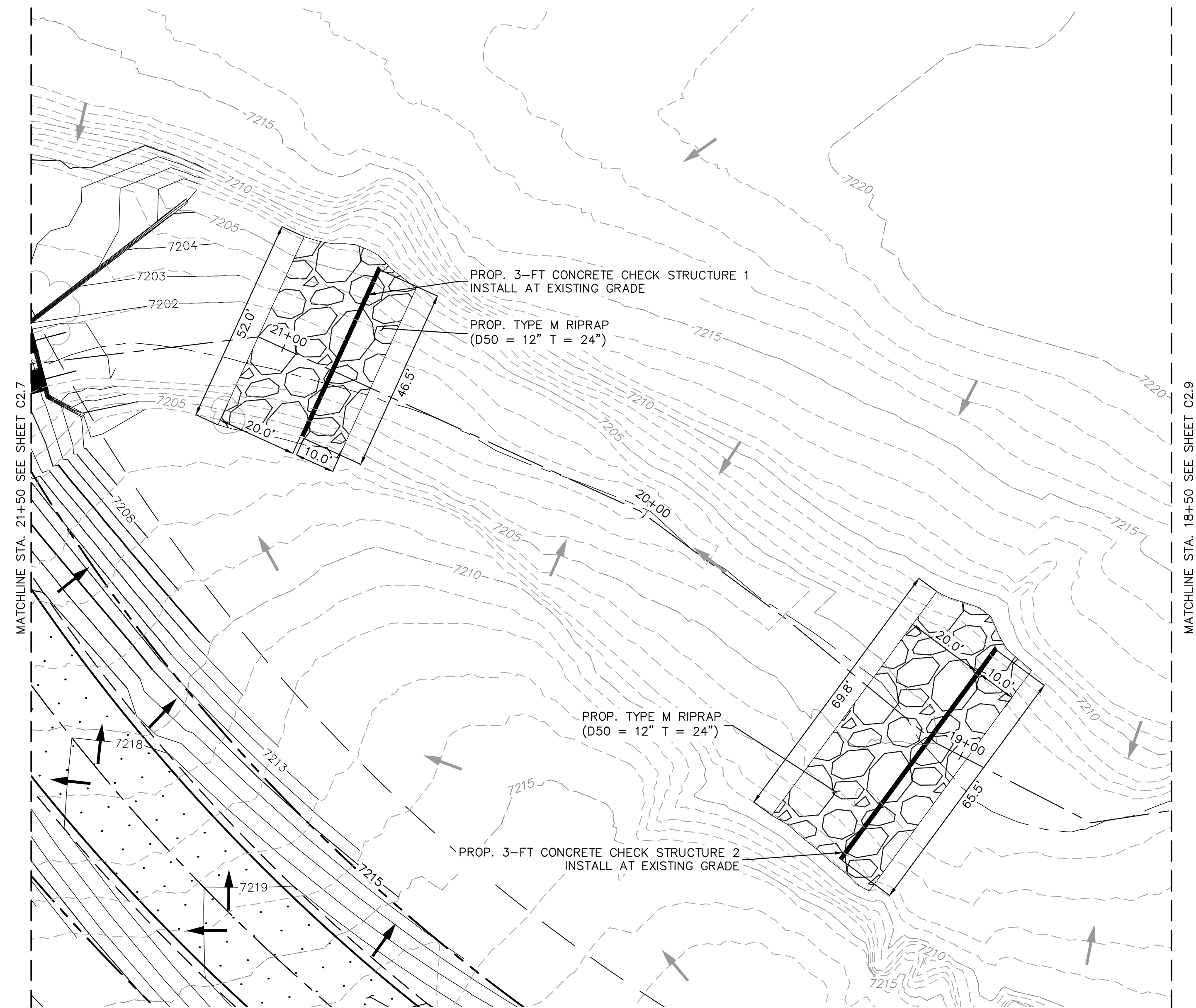
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NOTES:
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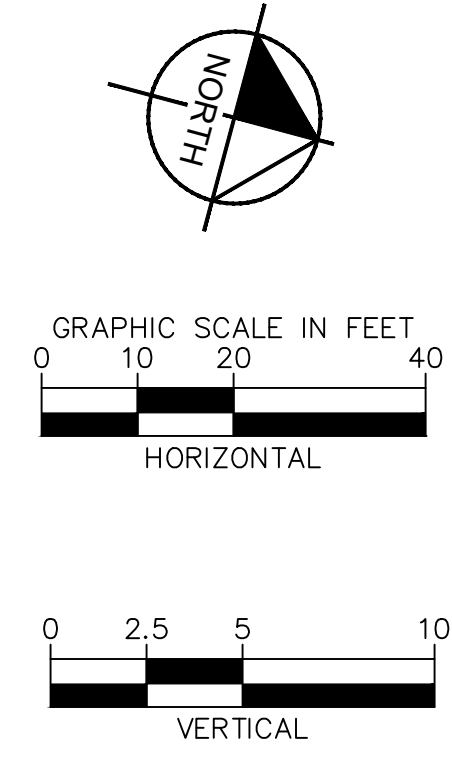
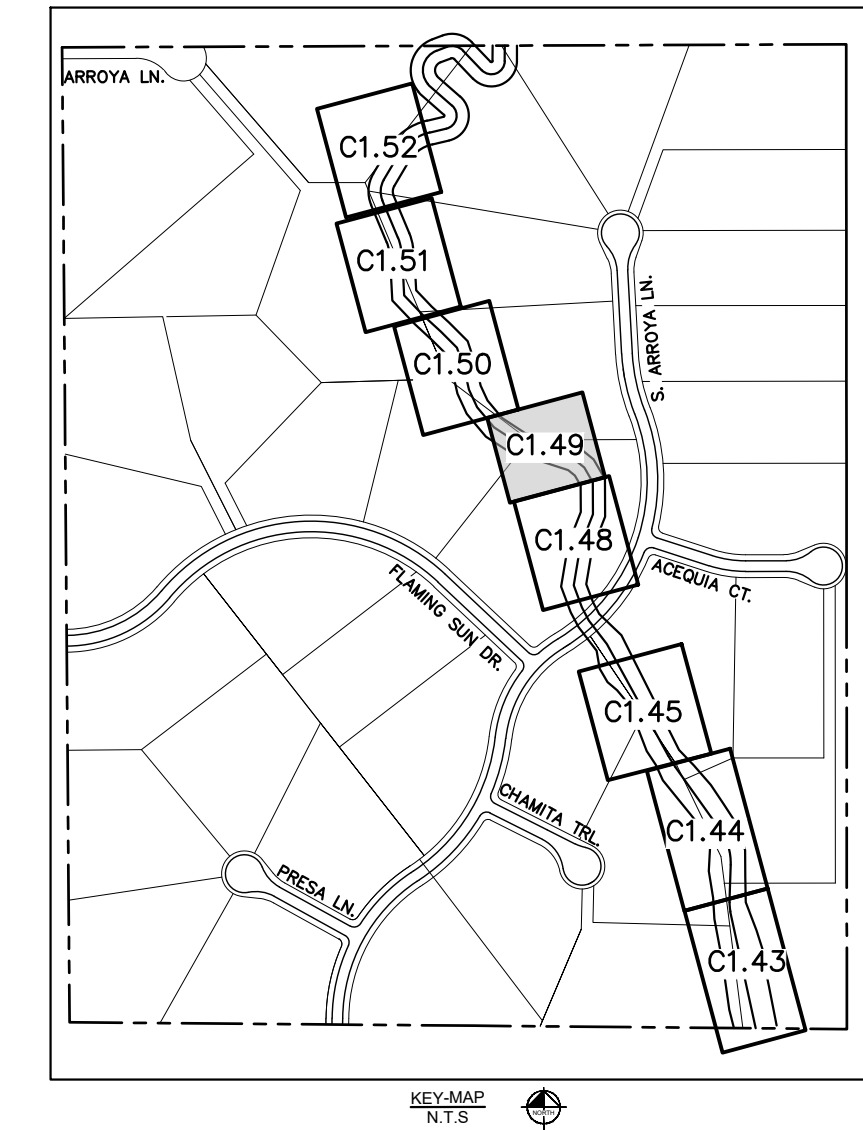
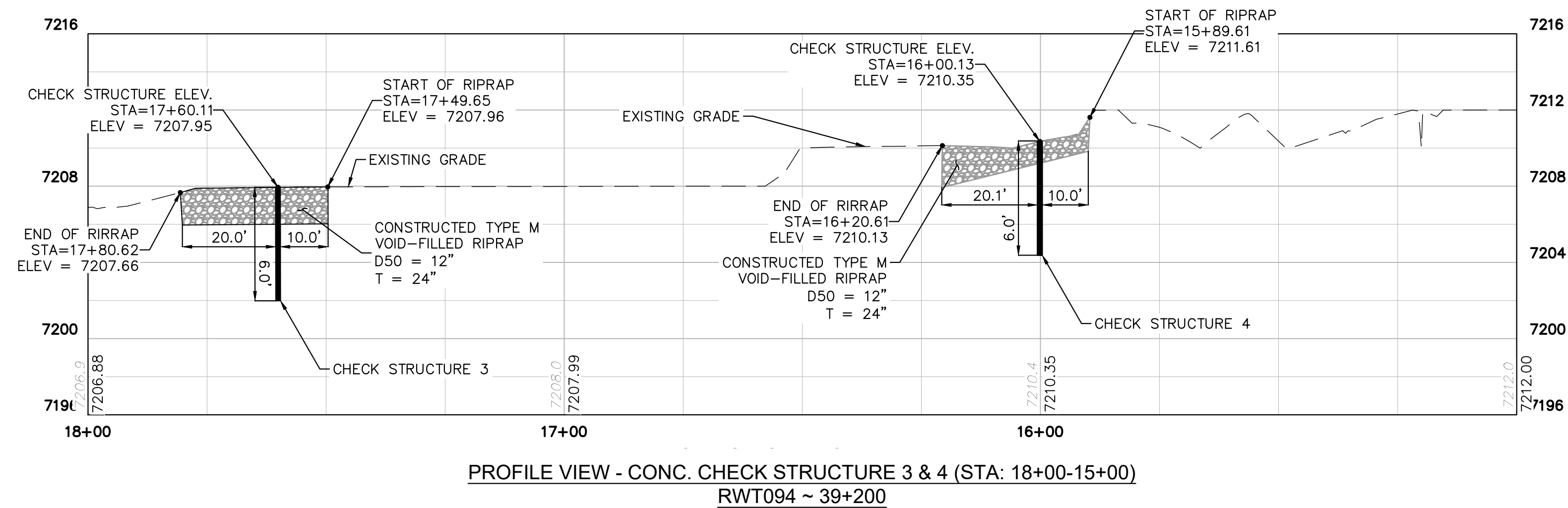
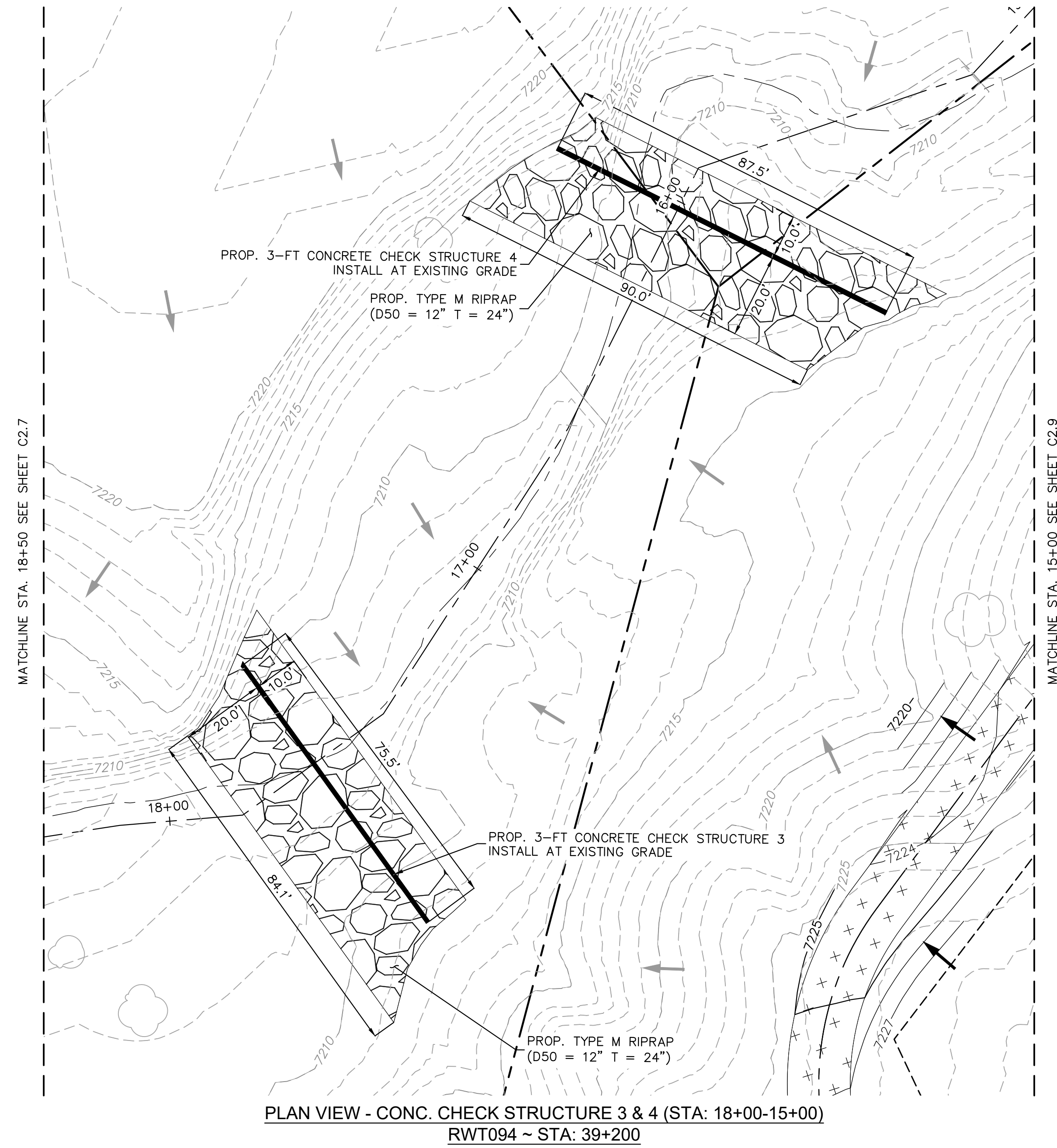
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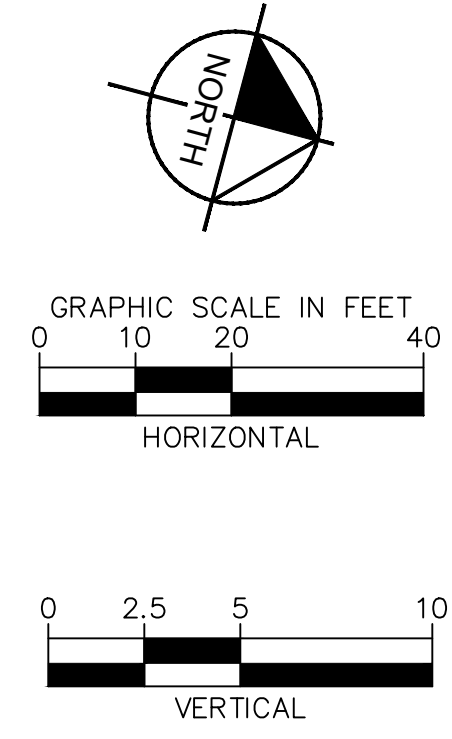
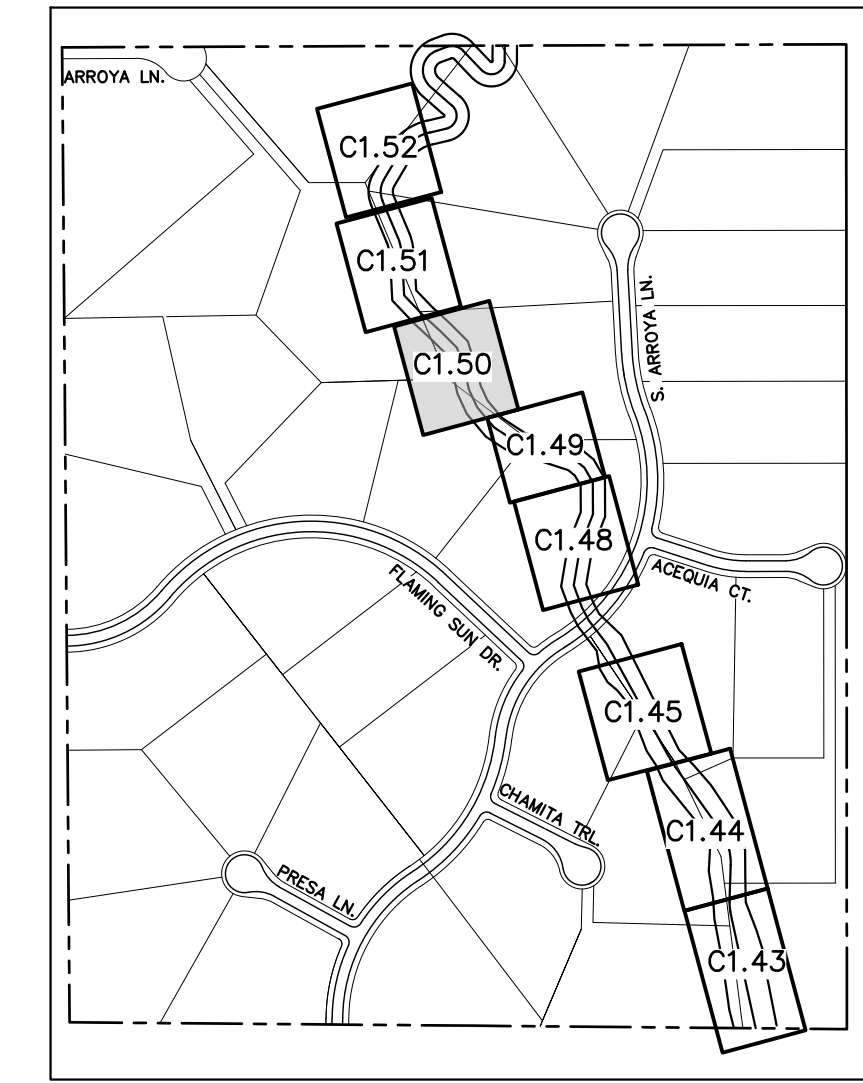
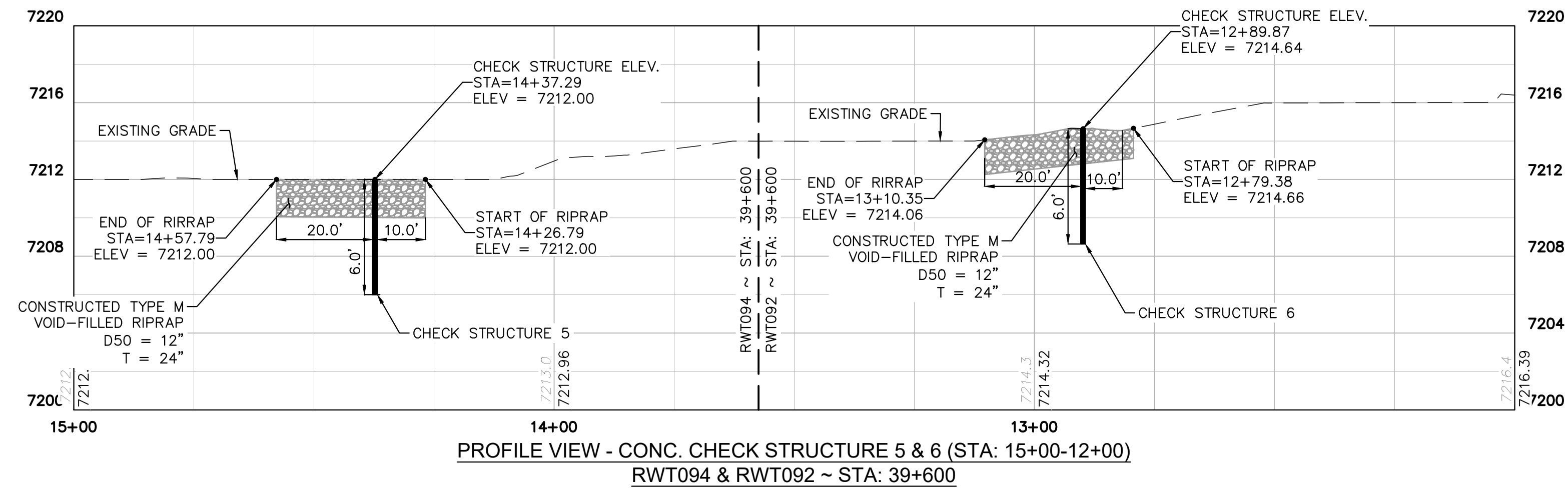
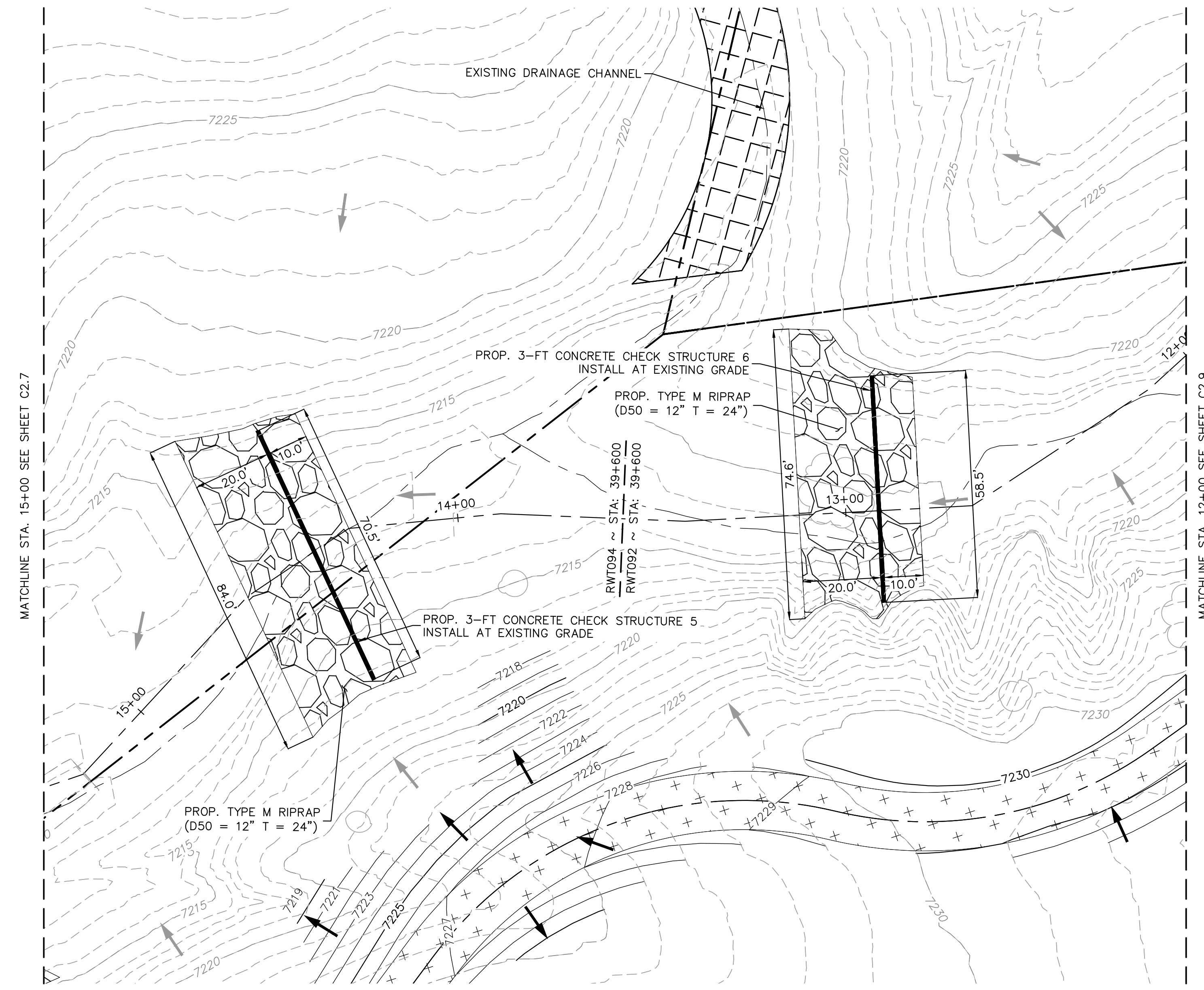
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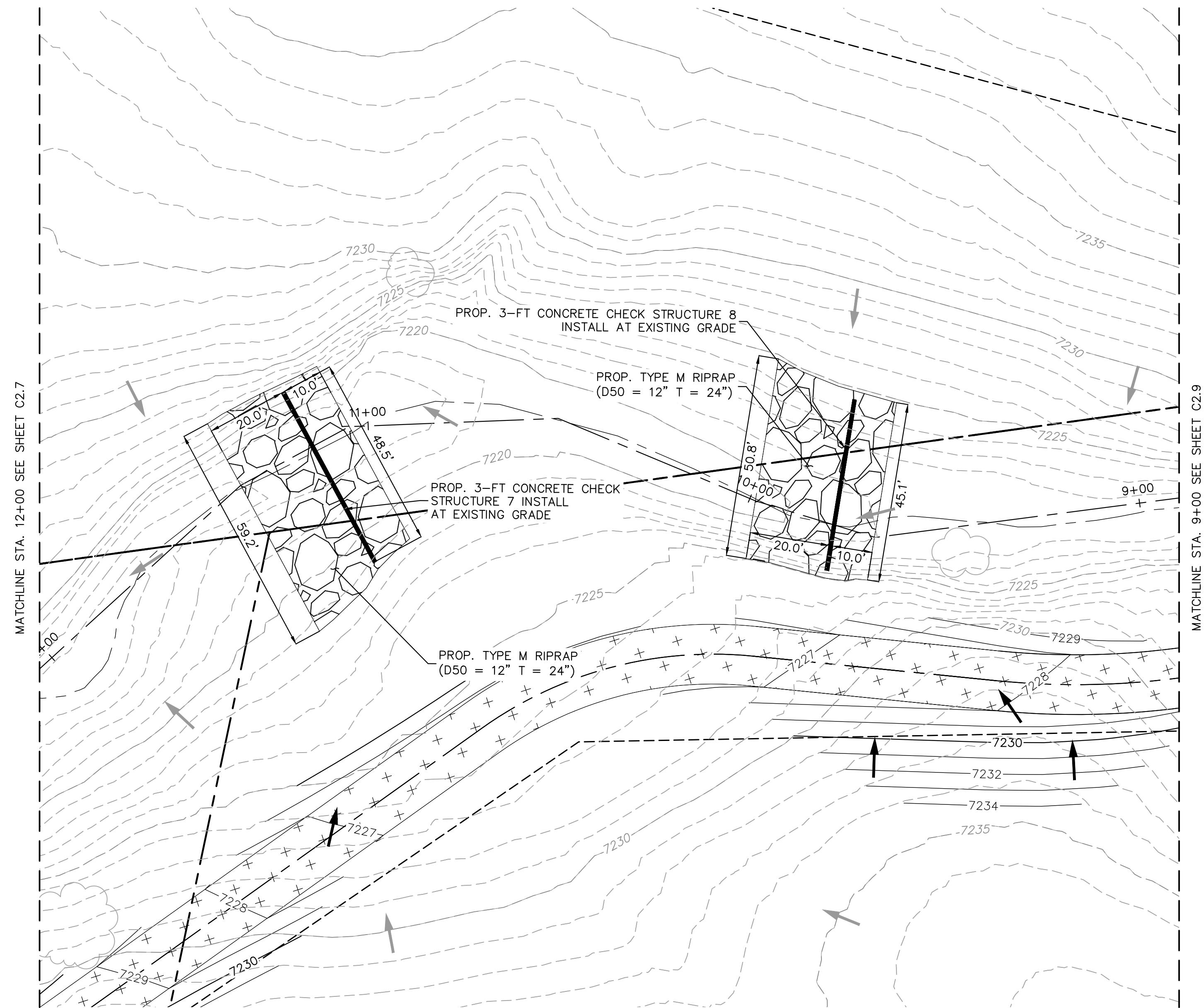
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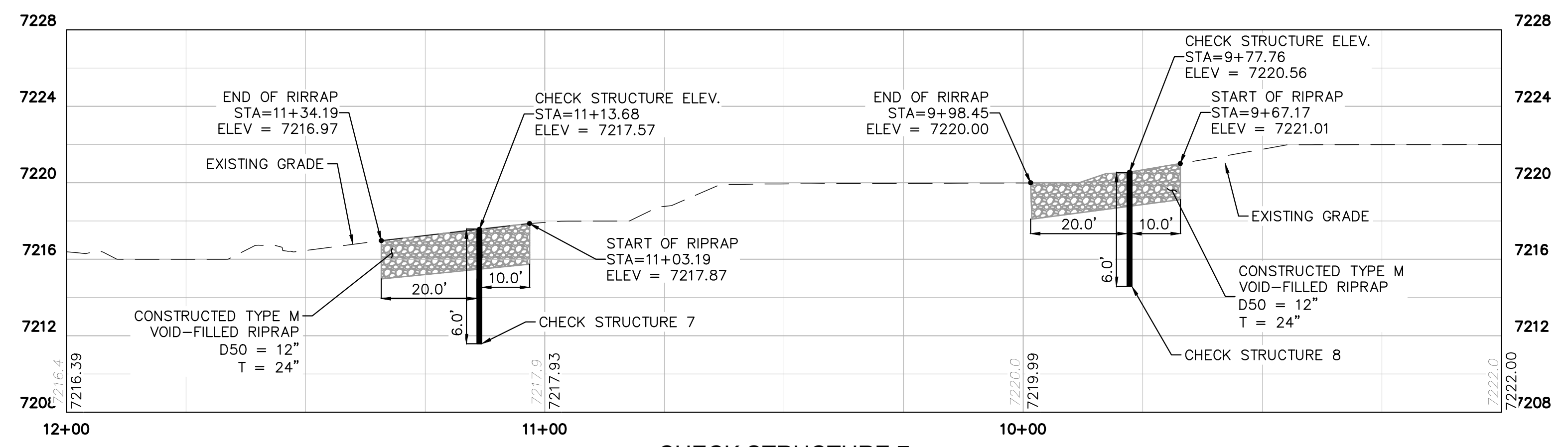
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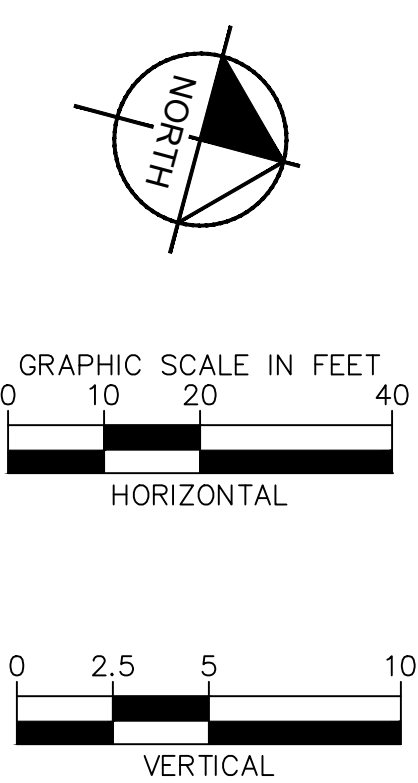
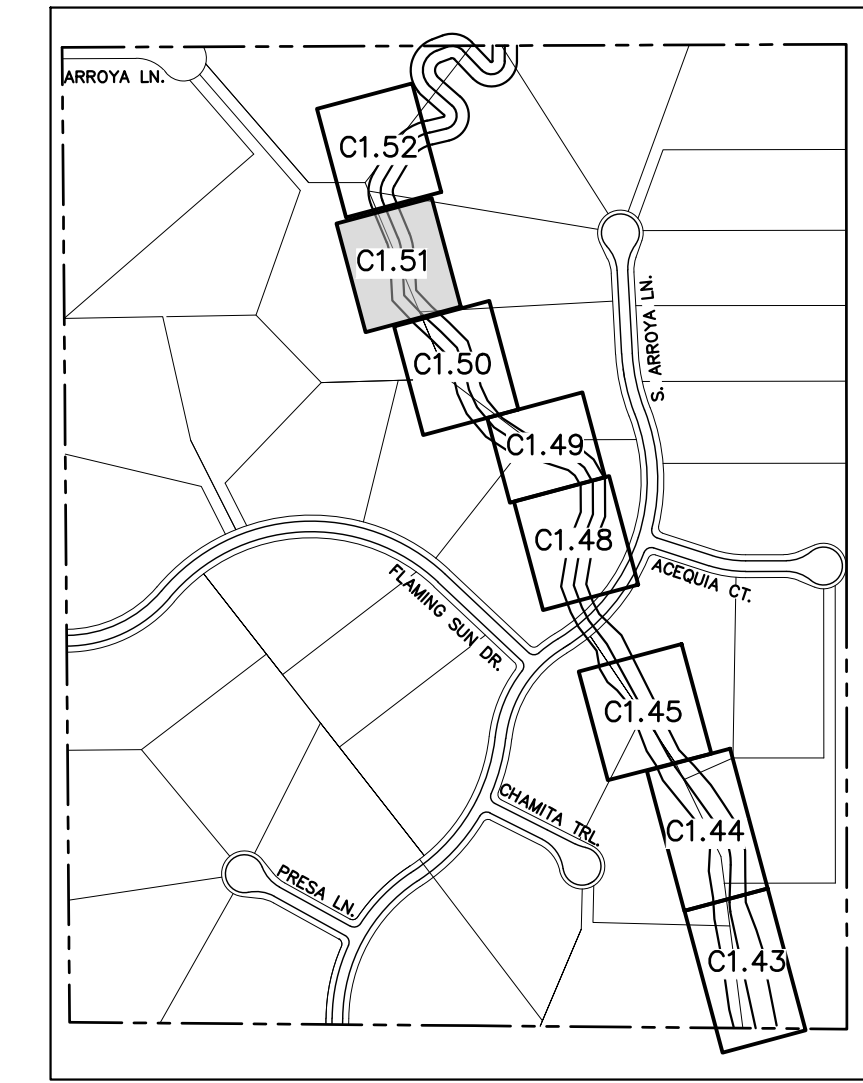
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PLAN VIEW - CONC. CHECK STRUCTURE 7 & 8 (STA:12+00-9+00)
RWT092 ~ STA: 39+800



PROFILE VIEW - CONC. CHECK STRUCTURE 7 & 8 (STA: 12+00-9+00)
RWT092 ~ STA: 39+800



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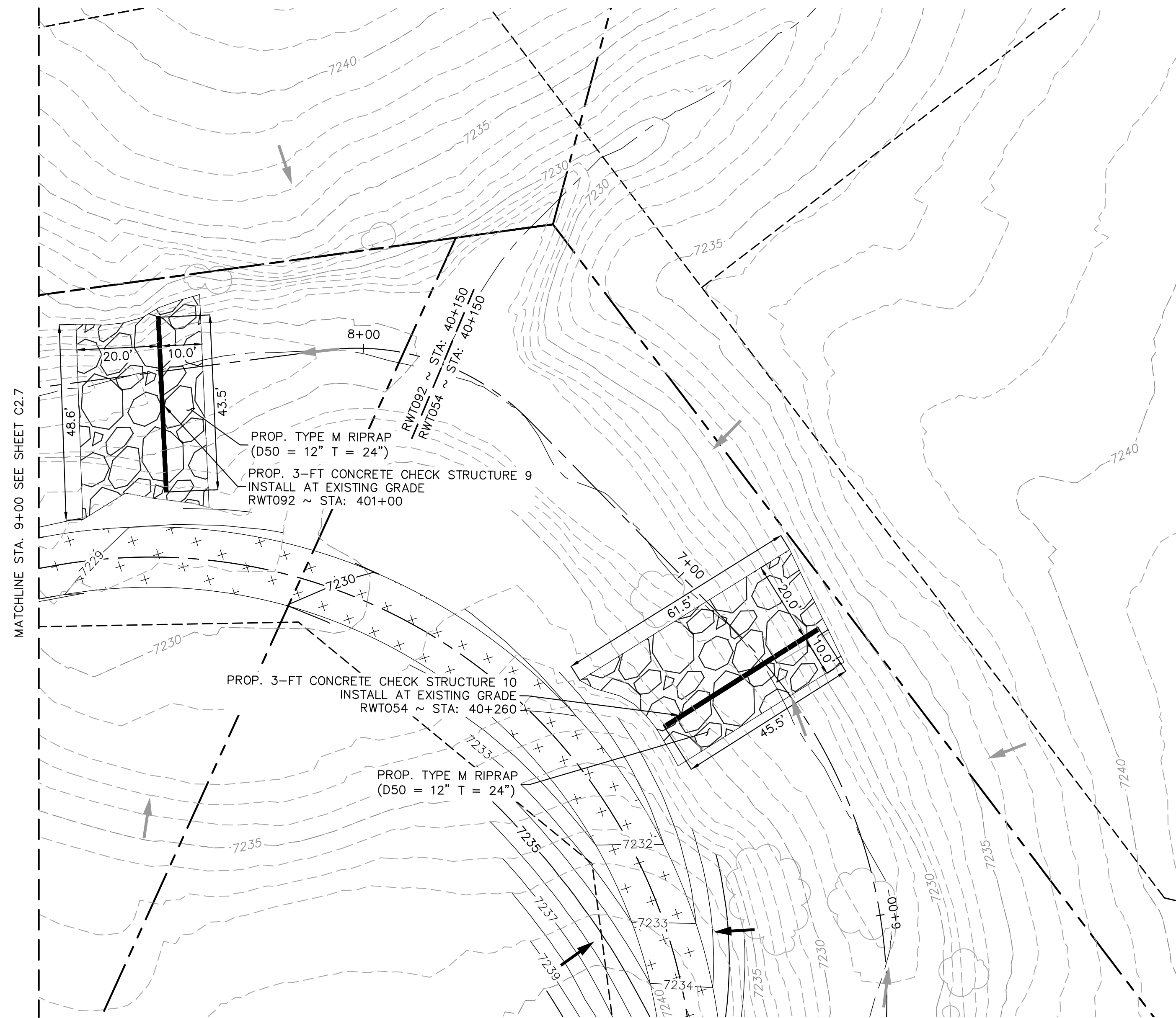
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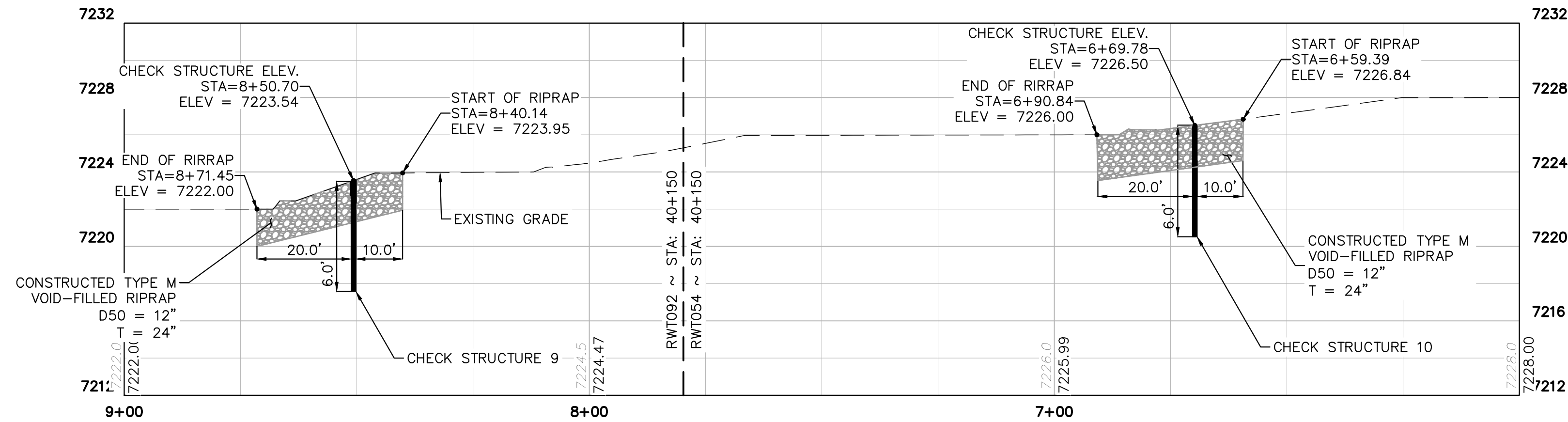
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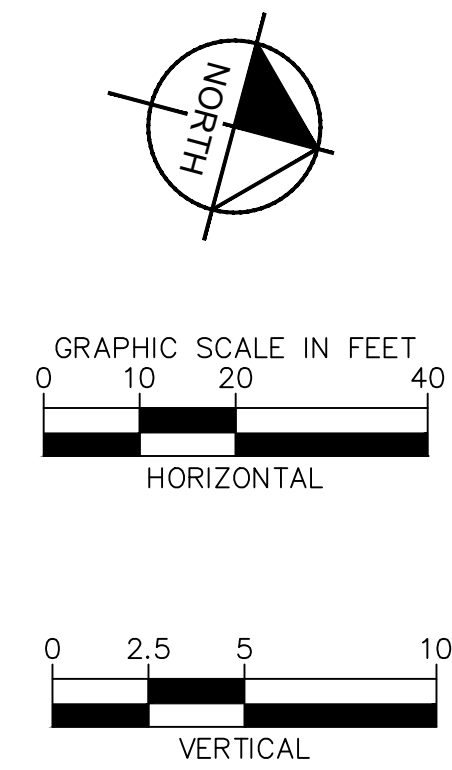
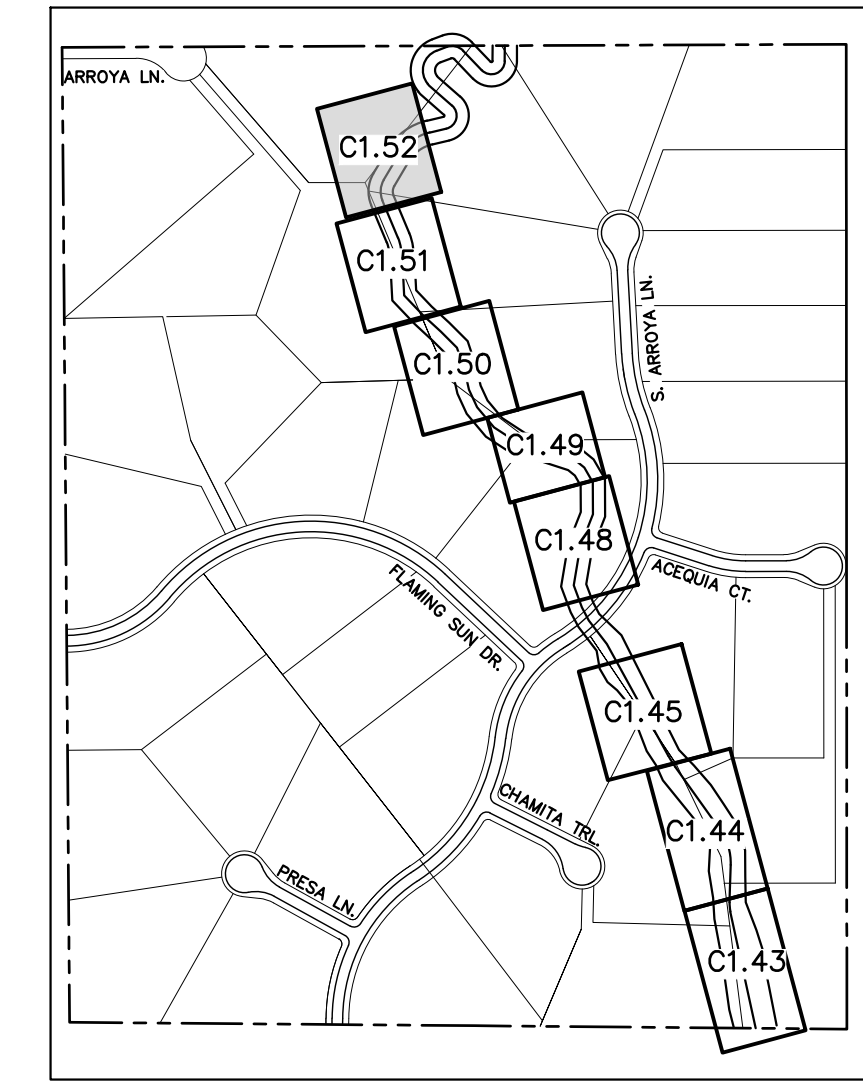
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PLAN VIEW - CONC. CHECK STRUCTURE 9 & 10 (STA: 9+00-6+00)
RWT092 & RWT054 ~ STA: 40+150



PROFILE VIEW - CONC. CHECK STRUCTURE 9 & 10 (STA: 9+00-8+00)
RWT092 & RWT054 ~ STA: 40+150



NOTES:
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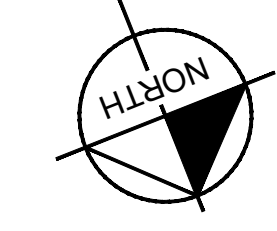
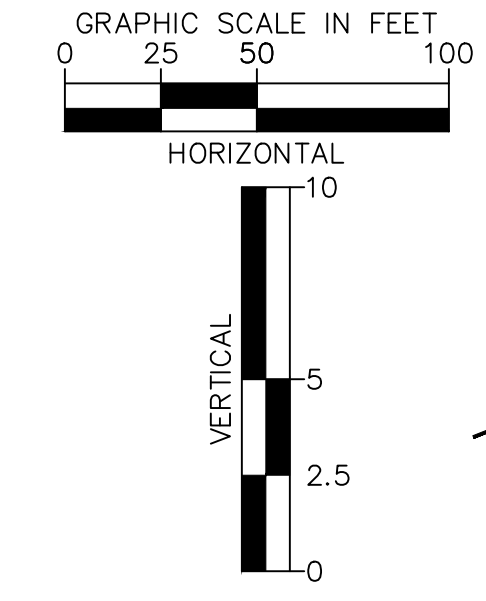
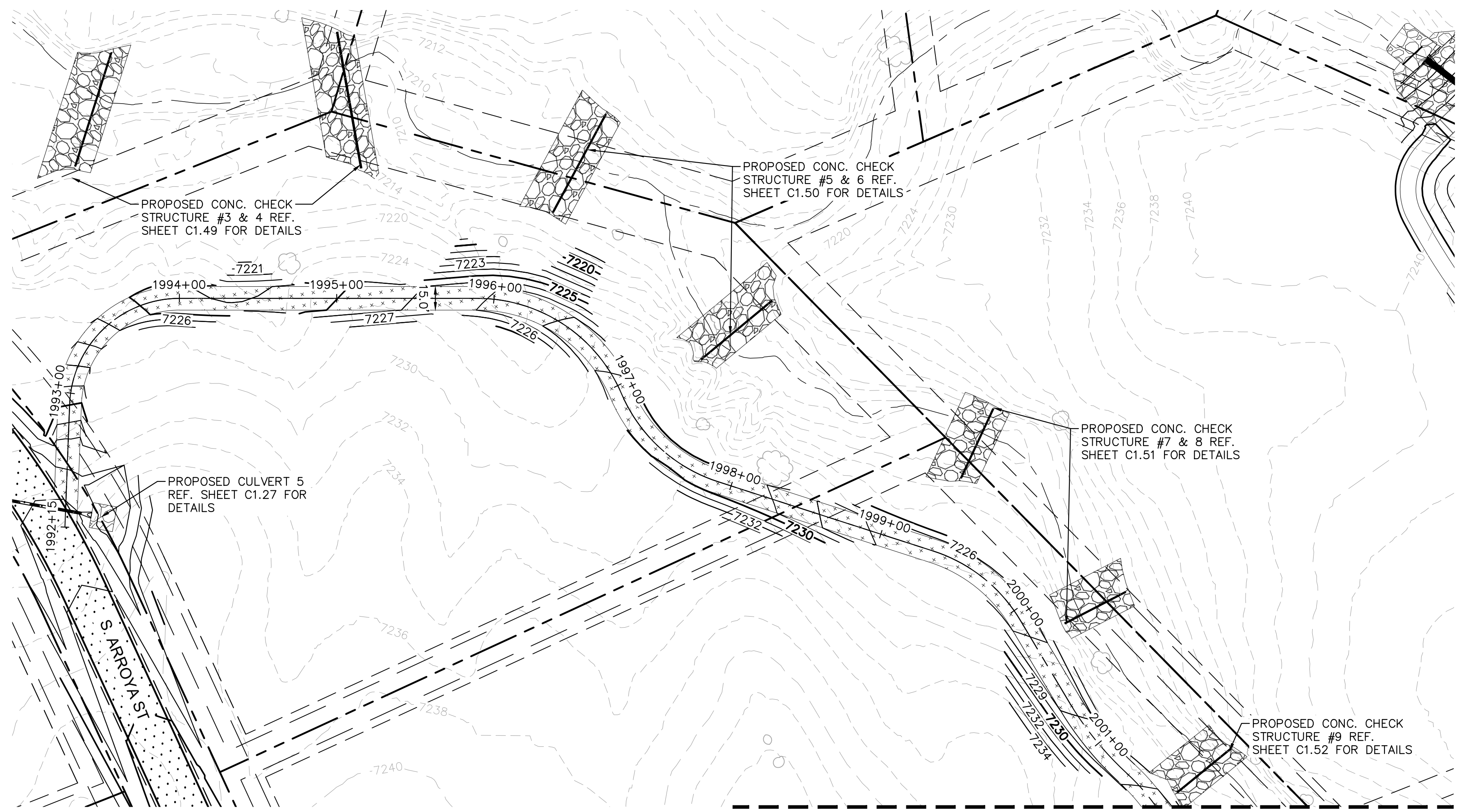
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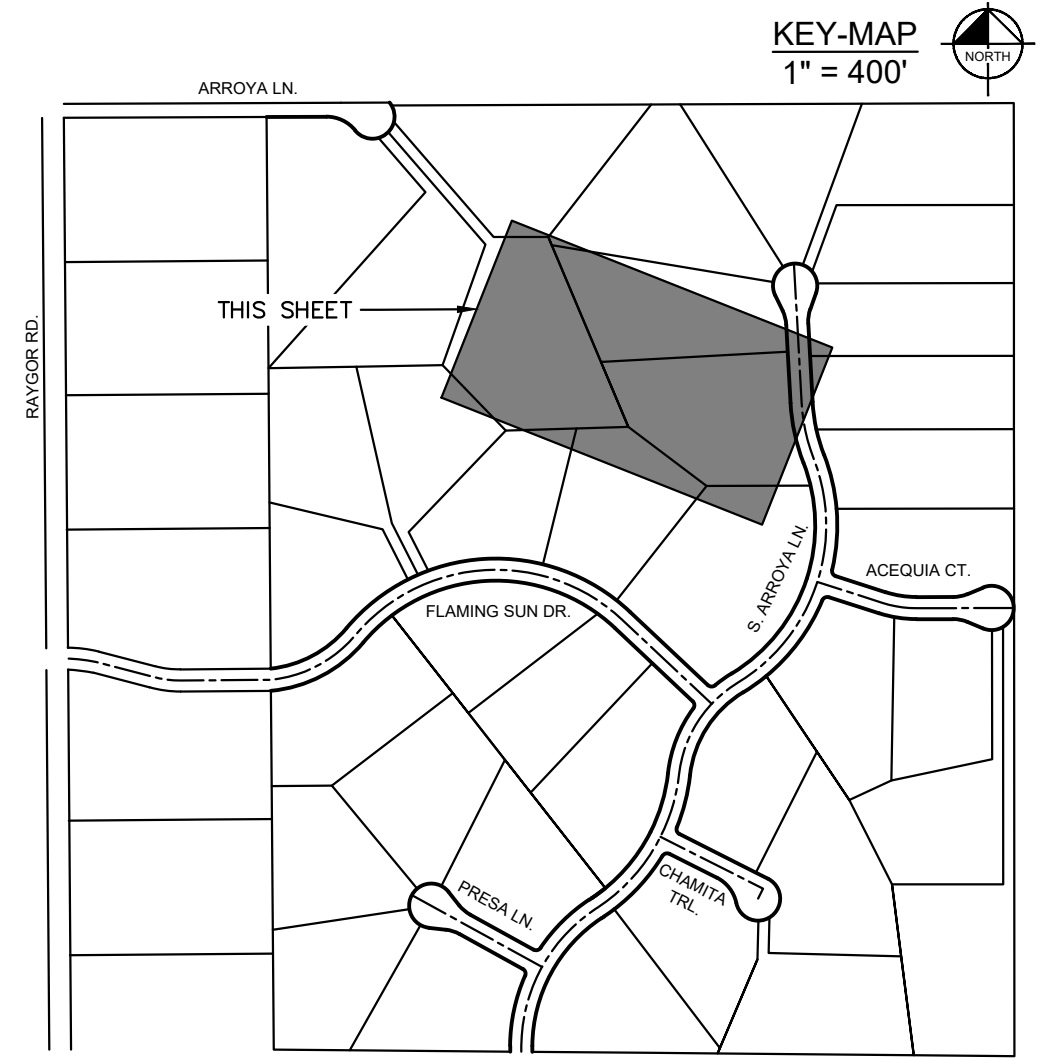
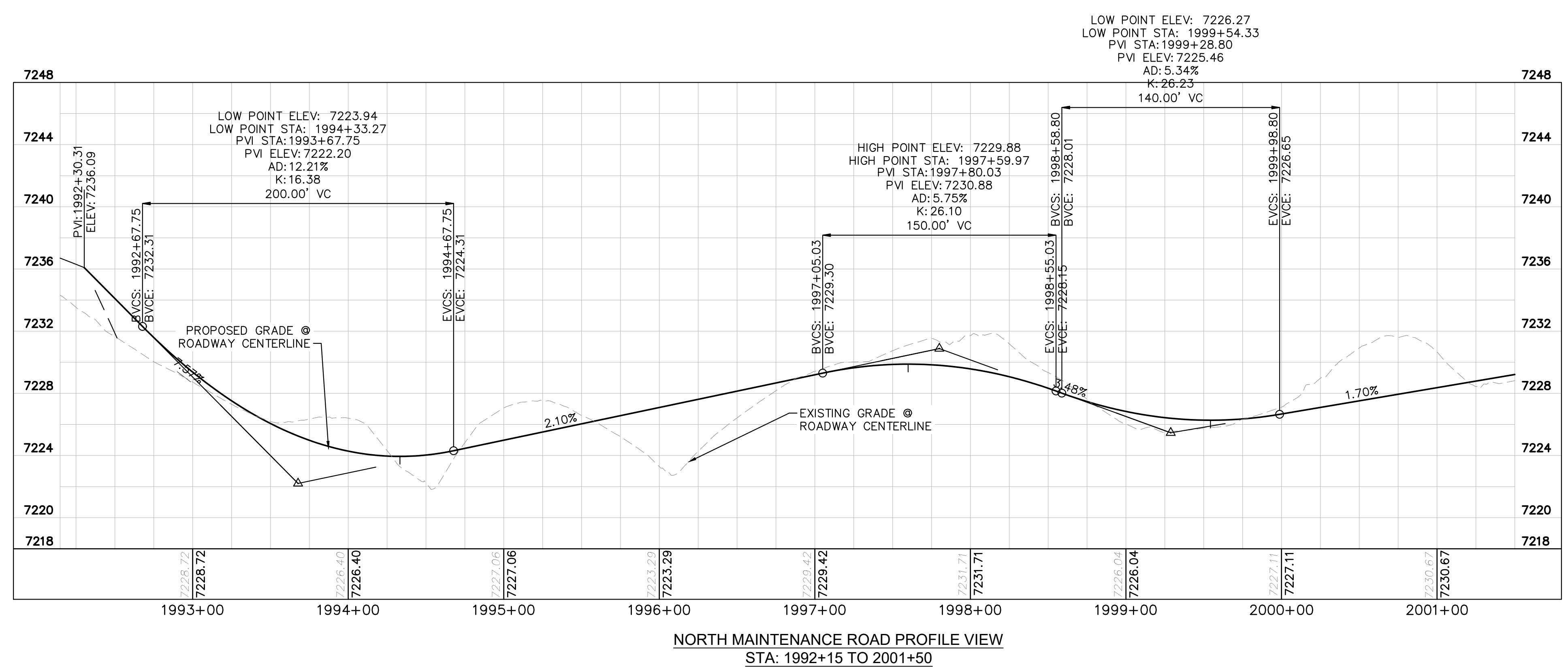
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- LEGEND
- PROPERTY/LOT LINE
 - ROW LINE
 - UTILITY EASEMENT LINE
 - LOT # LOT NUMBER
 - x-x- PROPOSED DRAINAGE EASEMENT
 - ▲▲ CROSS SECTION (SEE SHEET C1.1)
 - PROPOSED CULVERT
 - EXISTING CULVERT
 - 7XXX- EXISTING MAJOR CONTOUR
 - 7XXX- EXISTING MINOR CONTOUR
 - 7XXX PROPOSED MAJOR CONTOUR
 - 7XXX PROPOSED MINOR CONTOUR
 - PROPOSED EDGE OF PAVEMENT
 - PROPOSED EDGE OF SHOULDER



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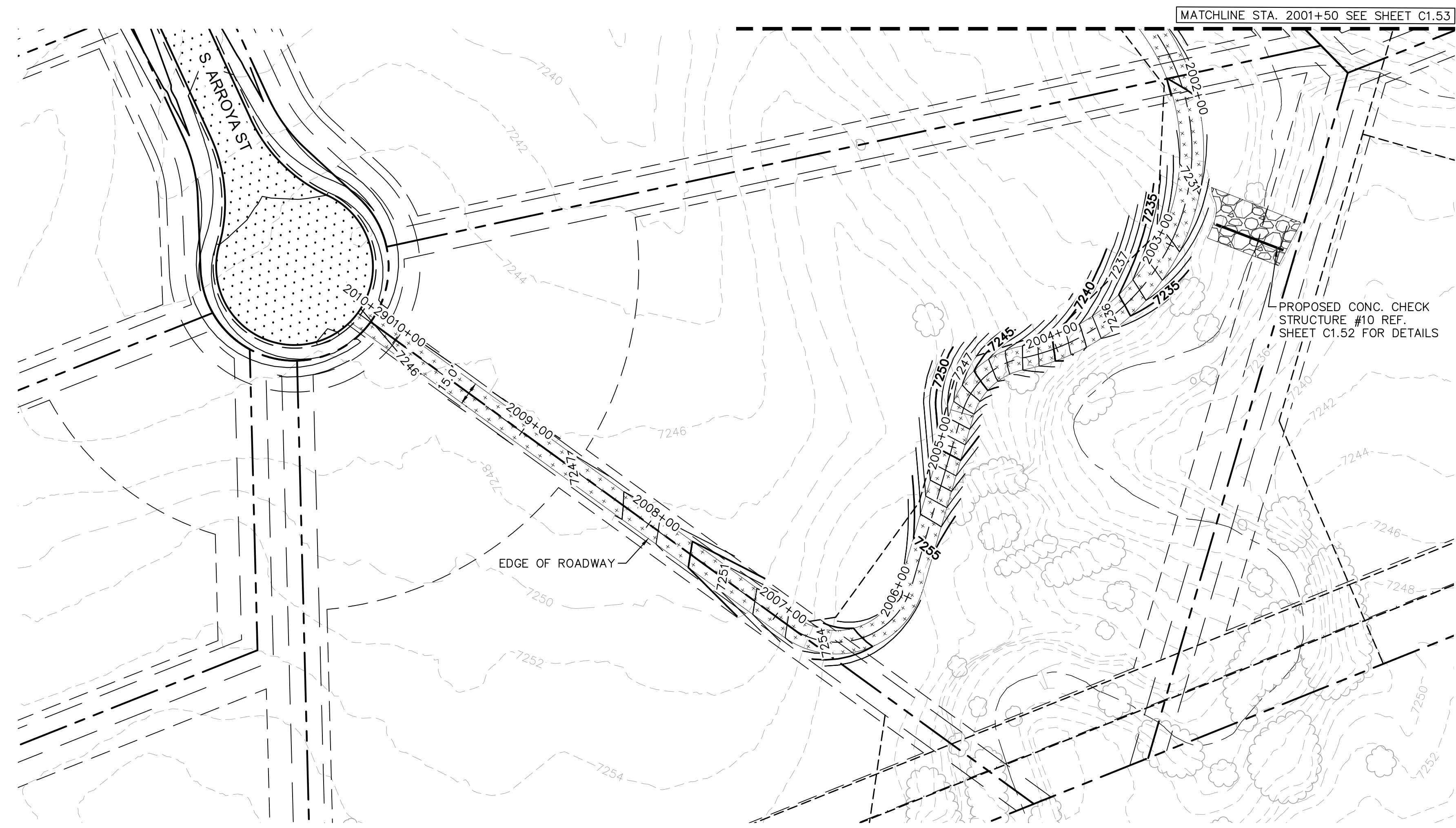
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N. MAINTENANCE ROAD PLAN & PROFILE**

COLORADO REGISTERED
PROFESSIONAL ENGINEER
57294
9/25/2016

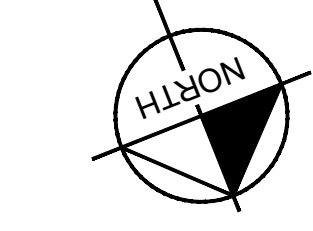
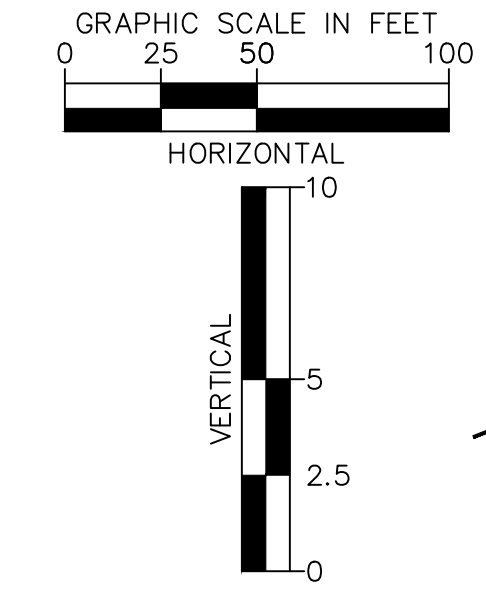
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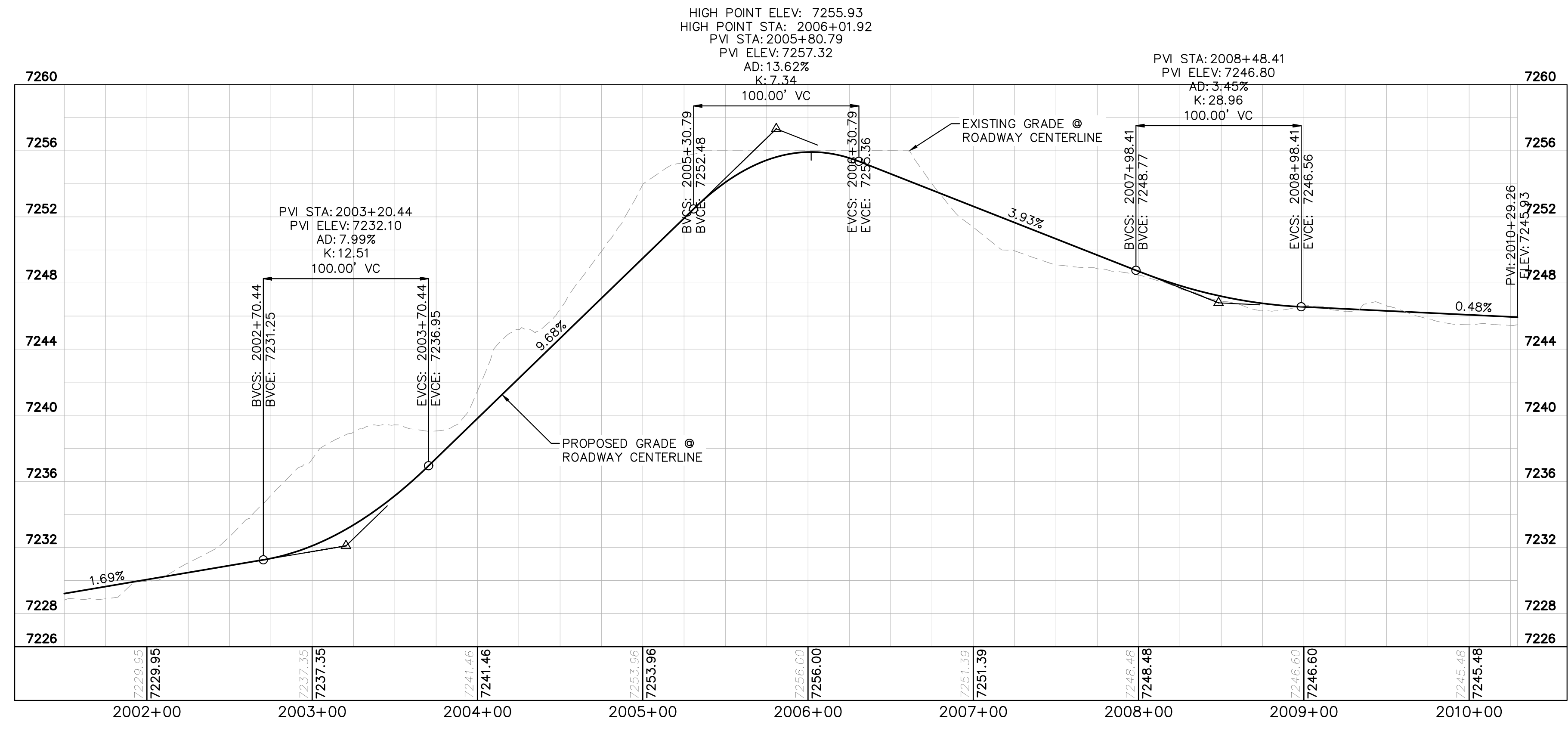


NORTH MAINTENANCE ROAD PLAN VIEW

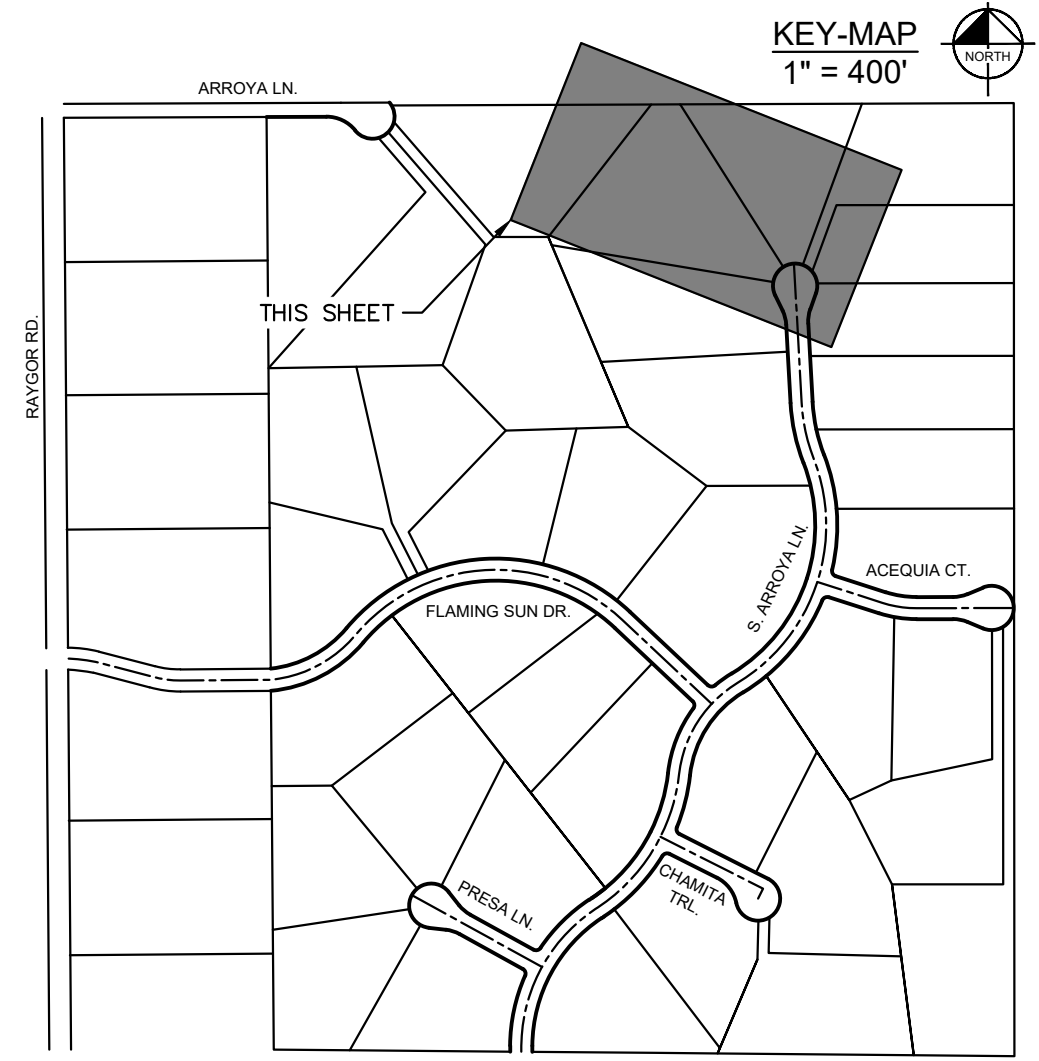


LEGEND

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- 7XXX PROPOSED MINOR CONTOUR
- PROPOSED EDGE OF PAVEMENT
- PROPOSED EDGE OF SHOULDER



NORTH MAINTENANCE ROAD PROFILE
STA: 2001+50 TO 2010+29



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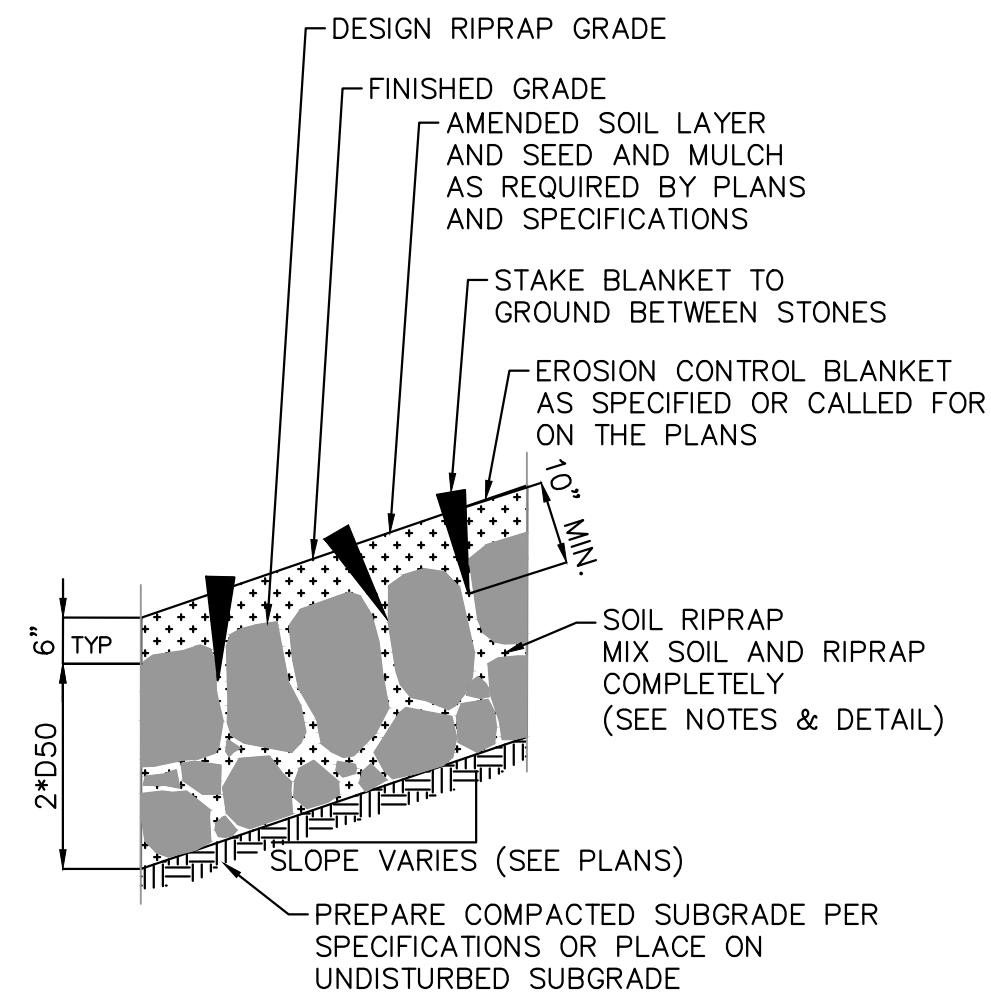
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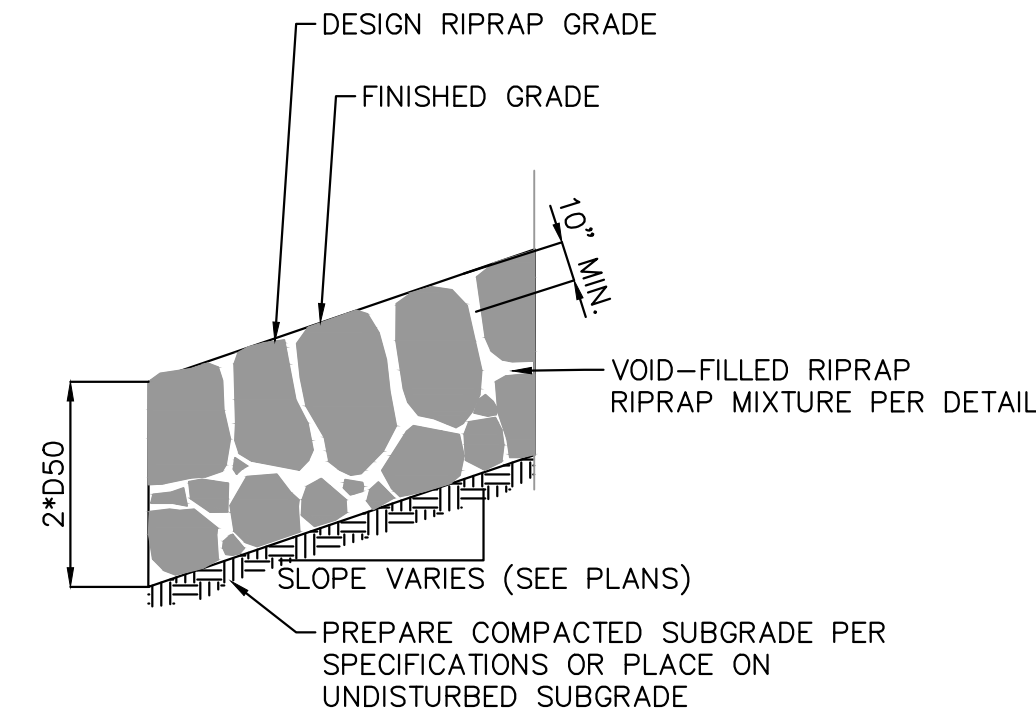
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SOIL RIPRAP DETAIL
N.T.S.

NOTES:

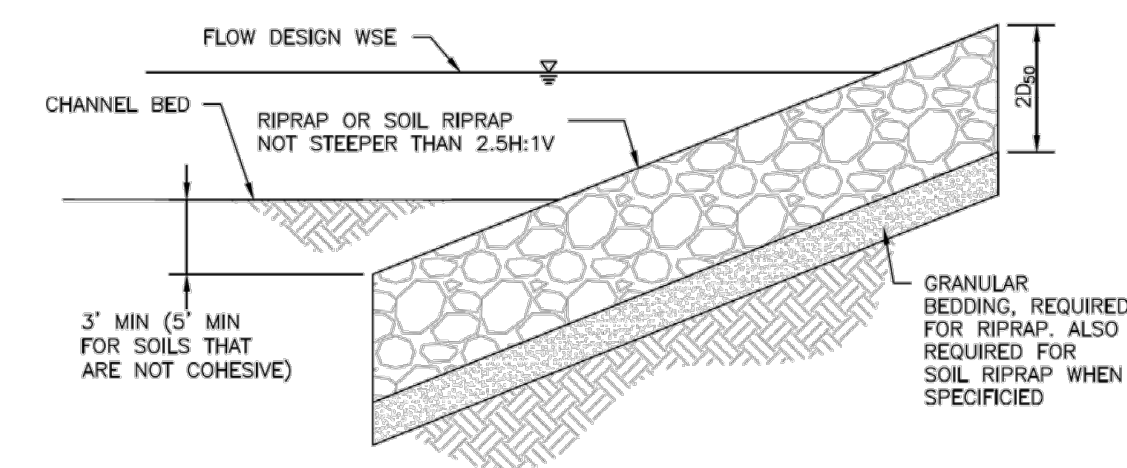
- SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS. REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
- MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.



VOID-FILLED RIPRAP DETAIL
N.T.S.

NOTES:

- PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.



RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D ₅₀ * (INCHES)
TYPE VL	70 - 100	12	6
	50 - 70	9	
	35 - 50	6	
TYPE L	70 - 100	15	9
	50 - 70	12	
	35 - 50	9	
TYPE M	70 - 100	21	12
	50 - 70	18	
	35 - 50	12	
TYPE H	70 - 100	30	18
	50 - 70	24	
	35 - 50	18	
	2 - 10	6	

*D₅₀ = MEAN ROCK SIZE

Figure 8-34. Riprap and soil riprap placement and gradation (part 1 of 3)

SOIL RIPRAP NOTES:

- ELEVATION TOLERANCES FOR THE SOIL RIPRAP SHALL BE 0.10 FEET. THICKNESS OF SOIL RIPRAP SHALL BE NO LESS THAN THICKNESS SHOWN AND NO MORE THAN 2-INCHES GREATER THAN THE THICKNESS SHOWN.
- WHERE "SOIL RIPRAP" IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP VOIDS ARE TO BE FILLED WITH NATIVE SOIL. THE RIPRAP SHALL BE PRE-MIXED WITH THE NATIVE SOIL AT THE FOLLOWING PROPORTIONS BY VOLUME: 65PERCENT RIPRAP AND 35 PERCENT SOIL. THE SOIL USED FOR MIXING SHALL BE NATIVE TOPSOIL AND SHALL HAVE A MINIMUM FINES CONTENT OF 15 PERCENT. THE SOIL RIPRAP SHALL BE INSTALLED IN A MANNER THAT RESULTS IN A DENSE, INTERLOCKED LAYER OF RIPRAP WITH RIPRAP VOIDS FILLED COMPLETELY WITH SOIL. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF SOIL. THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT SOIL.
- WHERE SPECIFIED (TYPICALLY AS "BURIED SOIL RIPRAP"), A SURFACE LAYER OF TOPSOIL SHALL BE PLACED OVER THE SOIL RIPRAP ACCORDING TO THE THICKNESS SPECIFIED ON THE CONTRACT DRAWINGS. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
- ALL SOIL RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.

U.S. STANDARD SIEVE SIZE	GRADATION FOR GRANULAR BEDDING	
	PERCENT PASSING BY WEIGHT	
	TYPE I CDOT SECT. 703.01	TYPE II CDOT SECT. 703.09 CLASS A
3 INCHES	-	90 - 100
1½ INCHES	-	-
¾ INCHES	-	20 - 90
¾ INCHES	100	-
#4	95 - 100	0 - 20
#16	45 - 80	-
#50	10 - 30	-
#100	2 - 10	-
#200	0 - 2	0 - 3

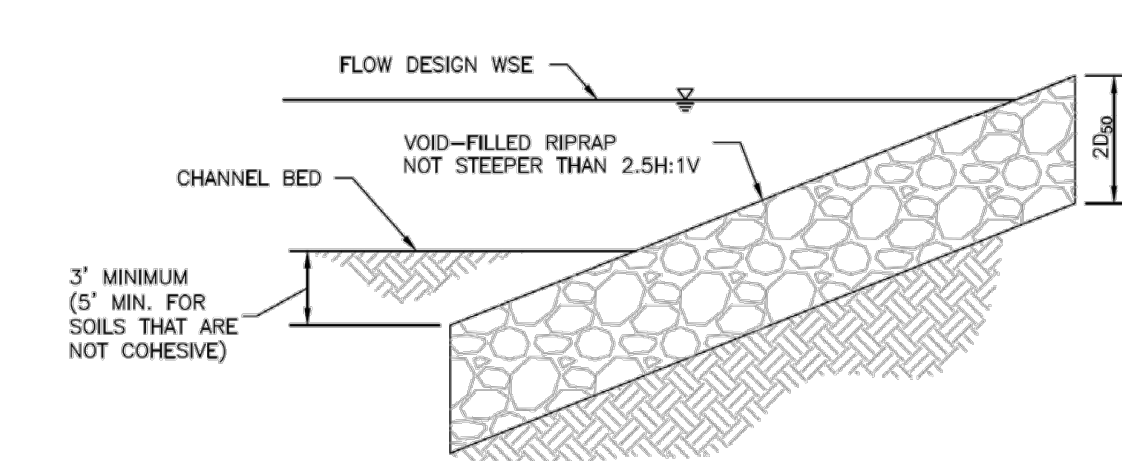
RIPRAP BEDDING

Figure 8-34. Riprap and soil riprap placement and gradation (part 2 of 3)

RIPRAP DESIGNATION	THICKNESS REQUIREMENTS FOR GRANULAR BEDDING		
	MINIMUM BEDDING THICKNESS (INCHES)		
	FINE-GRAINED SOILS 1		COARSE-GRAINED SOILS 2
	TYPE I (LOWER LAYER)	TYPE II (UPPER LAYER)	TYPE II
VL (D ₅₀ = 6 IN)	4	4	6
L (D ₅₀ = 9 IN)	4	4	6
M (D ₅₀ = 12 IN)	4	4	6
H (D ₅₀ = 18 IN)	4	6	8
VH (D ₅₀ = 24 IN)	4	6	8

- NOTES:
- MAY SUBSTITUTE ONE 12-INCH LAYER OF TYPE II BEDDING, THE SUBSTITUTION OF ONE LAYER OF TYPE II BEDDING SHALL NOT BE PERMITTED AT DROP STRUCTURES. THE USE OF A COMBINATION OF FILTER FABRIC AND TYPE II BEDDING AT DROP STRUCTURES IS ACCEPTABLE.
 - FIFTY PERCENT OR MORE BY WEIGHT RETAINED ON THE #40 SIEVE.

Figure 8-34. Riprap and soil riprap placement and gradation (part 3 of 3)



APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RIPRAP	D ₅₀ = 6 INCH (TYPE VL) OR D ₅₀ = 9 INCH (TYPE L), SEE TABLE 3
1 PART	VOID-FILL MATERIAL	VTC (VEHICLE TRACKING CONTROL) ROCK (CRUSHED ROCK WITH 100% PASSING 4-INCH SIEVE, 50-70% PASSING 3-INCH SIEVE, 0-10% PASSING 2-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	4-INCH MINUS PIT RUN SURGE (ROUND RIVER ROCK AND SAND, WELL GRADED, 90-100% PASSING 4-INCH SIEVE, 70-80% PASSING 1½-INCH SIEVE, 40-60% PASSING ¾-INCH SIEVE, 10-30% PASSING #16 SIEVE)
1 PART	VOID-FILL MATERIAL	TYPE II BEDDING (CRUSHED ROCK WITH 100% PASSING 3-INCH SIEVE, 20-90% PASSING ¾-INCH SIEVE, 0-20% PASSING #4 SIEVE, 0-3% PASSING #200 SIEVE)
½ TO 1 PART	VOID-FILL MATERIAL	NATIVE TOPSOIL

VOID-FILLED RIPRAP PLACEMENT AND GRADATION

Figure 8-35. Void-filled riprap placement and gradation (part 1 of 3)

APPROPRIATE PROPORTIONS (BY VOLUME)	MATERIAL TYPE	MATERIAL DESCRIPTION
6 PARTS	RIPRAP	D ₅₀ = 12-INCH (TYPE M) OR D ₅₀ = 18-INCH (TYPE H), SEE TABLE 3
2 PART	VOID-FILL MATERIAL	7-INCH MINUS CRUSHED ROCK SURGE (100% PASSING 7-INCH SIEVE, 80-100% PASSING 4-INCH SIEVE, 35-50% PASSING 3-INCH SIEVE, 10-20% PASSING 1½-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	VTC (VEHICLE TRACKING CONTROL) ROCK (CRUSHED ROCK WITH 100% PASSING 4-INCH SIEVE, 50-70% PASSING 3-INCH SIEVE, 0-10% PASSING 2-INCH SIEVE)
1 PART	VOID-FILL MATERIAL	4-INCH MINUS PIT RUN SURGE (ROUND RIVER ROCK AND SAND, WELL GRADED, 90-100% PASSING 4-INCH SIEVE, 70-80% PASSING 1½-INCH SIEVE, 40-60% PASSING ¾-INCH SIEVE, 10-30% PASSING #16 SIEVE)
1 PART	VOID-FILL MATERIAL	TYPE II BEDDING (CRUSHED ROCK WITH 100% PASSING 3-INCH SIEVE, 20-90% PASSING ¾-INCH SIEVE, 0-20% PASSING #4 SIEVE, 0-3% PASSING #200 SIEVE)
½ TO 1 PART	VOID-FILL MATERIAL	NATIVE TOPSOIL

RIPRAP DESIGNATION	% SMALLER THAN GIVEN SIZE BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	D ₅₀ * (INCHES)
TYPE VL	70 - 100	12	6
	50 - 70	9	
	35 - 50	6	
TYPE L	70 - 100	15	9
	50 - 70	12	
	35 - 50	9	
TYPE M	70 - 100	21	12
	50 - 70	18	
	35 - 50	12	
TYPE H	70 - 100	30	18
	50 - 70	24	
	35 - 50	18	
	2 - 10	6	

*D₅₀ = MEAN ROCK SIZE

NOTE: MIX ON SITE AND PRIOR TO PLACEMENT

Figure 8-35. Void-filled riprap placement and gradation (part 2 of 3)

VOID-FILLED RIPRAP PLACEMENT AND GRADATION NOTES:

- WHERE "VOID-FILLED RIPRAP" IS DESIGNATED ON THE CONTRACT DRAWINGS, RIPRAP SHALL BE MIXED WITH THE MATERIALS AND ASSOCIATED PROPORTIONS LISTED IN TABLE 1 OR TABLE 2 TO FILL THE VOIDS OF THE RIPRAP.
- THE MIX PROPORTIONS PROVIDED IN TABLE 1 AND TABLE 2 ARE APPROXIMATE AND ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER.
- THE RIPRAP AND VOID-FILLED MATERIALS SHALL BE STOCKPILED SEPARATELY AND THOROUGHLY MIXED PRIOR TO PLACEMENT AND SHALL BE INSTALLED AND COMPACTED SO THAT A DENSE, INTERLOCKED LAYER OF RIPRAP AND VOID-FILL MATERIAL IS PROVIDED WITH RIPRAP VOIDS COMPLETELY FILLED. THE LOOSE MATERIAL SHALL BE PLACED IN A SINGLE LIFT OF SUFFICIENT HEIGHT SUCH THAT FINAL GRADE WILL BE ACHIEVED UPON COMPACTED. IF THE COMPACTED MATERIAL IS BELOW FINAL GRADE, PLACEMENT OF ONLY THE SMALLER VOID-FILL MATERIAL TO ACHIEVE FINAL GRADE IS NOT PERMITTED. IN SUCH CASES IT IS NECESSARY TO ADD MORE STANDARD SIZED VOID-FILLED RIPRAP AND REMIX THE ENTIRE THICKNESS OF ROCK TO ACHIEVE THE DESIGN SECTION. SEGREGATION OF MATERIALS SHALL BE AVOIDED AND IN NO CASE SHALL THE COMBINED MATERIAL CONSIST PRIMARILY OF THE VOID-FILL MATERIALS. THE DENSITY AND INTERLOCKING NATURE OF RIPRAP IN THE MIXED MATERIAL SHALL ESSENTIALLY BE THE SAME AS IF THE RIPRAP WAS PLACED WITHOUT FILLING THE VOIDS.
- COMPACTION OF THE VOID-FILLED RIPRAP SHALL BE PERFORMED BY WHEEL ROLLING WITH HEAVY RUBBER-TIRED EQUIPMENT (E.G. FRONT END LOADER). THE MOISTURE CONTENT OF THE MIXTURE SHALL BE AT OPTIMUM CONDITIONS PRIOR TO COMPACTION AND WATER SHALL BE ADDED, AS NECESSARY, AT THE DIRECTION OF THE ENGINEER.
- WHERE INDICATED ON THE DRAWINGS, A SURFACE LAYER OF MOIST TOPSOIL SHALL BE PLACED OVER THE VOID-FILLED RIPRAP. THE TOPSOIL SURFACE LAYER SHALL BE COMPACTED TO APPROXIMATELY 85% OF MAXIMUM DENSITY AND WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698. TOPSOIL SHALL BE ADDED TO ANY AREAS THAT SETTLE.
- ALL VOID-FILLED RIPRAP THAT IS BURIED WITH TOPSOIL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY TOPSOIL PLACEMENT.

Figure 8-35. Void-filled riprap placement and gradation (part 3 of 3)

NO.	REVISION	BY	DATE	APPR.

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CHECKED BY: KKK
DATE: 04/04/2024

EAGLEVIEW
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
RIPRAP DETAILS

PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
Kimley»Horn
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PROJECT NO.
196106001

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