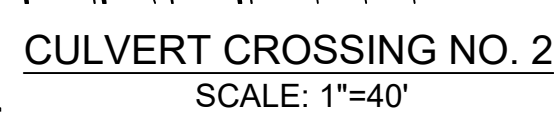
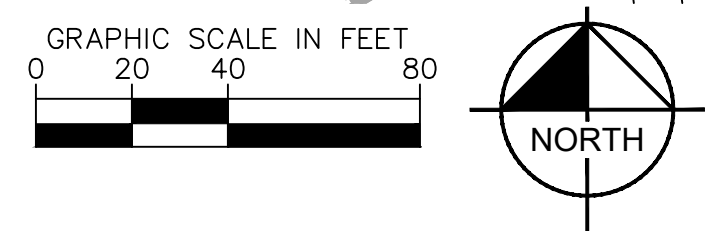
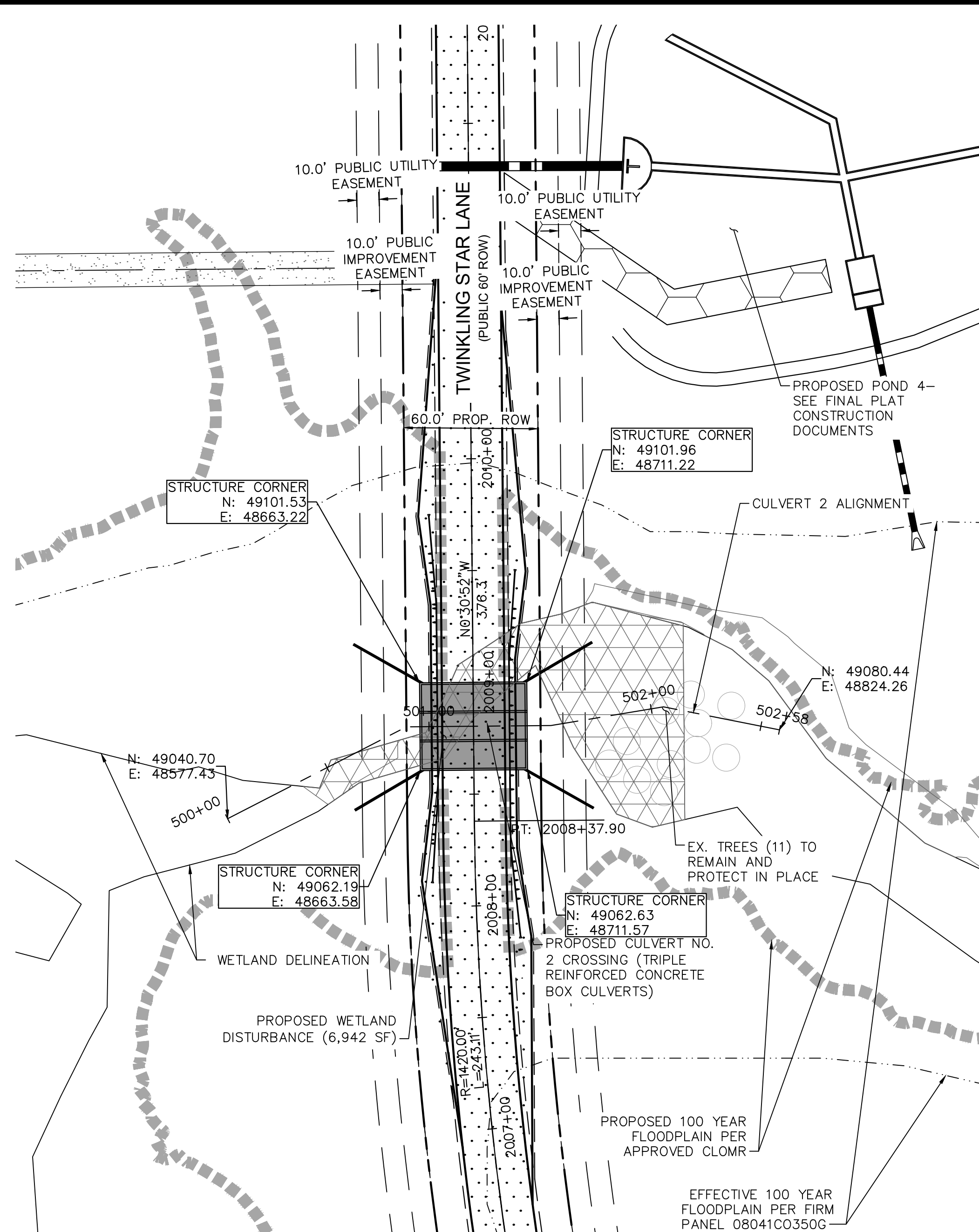
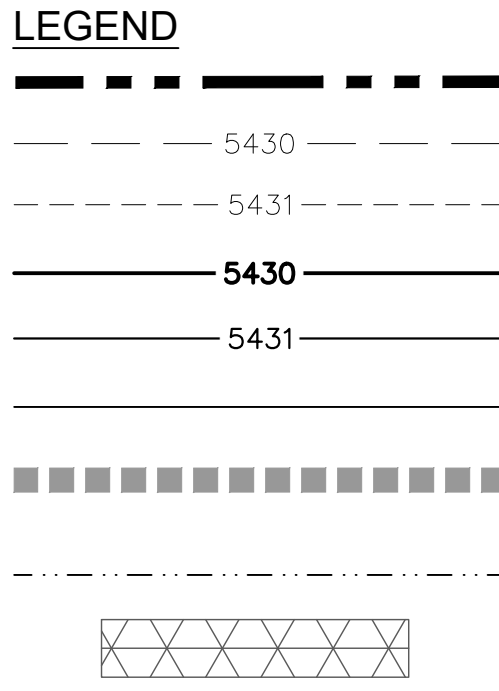


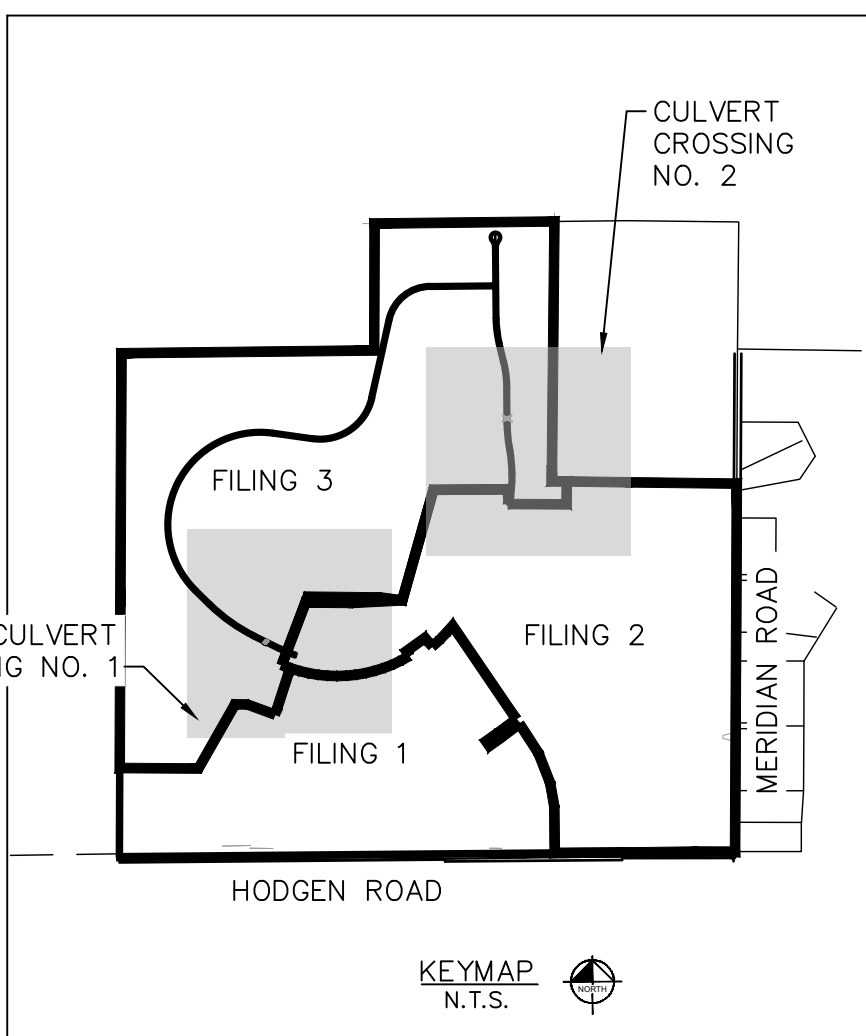
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- ## NOTES
1. ROADWAY LAYOUT IS FOR REFERENCE ONLY. REFERENCE WINSOME FILING NO. 3 CONSTRUCTION DOCUMENTS FOR ROADWAY PLAN AND PROFILES.
 2. GUARDRAIL WILL BE INSTALLED WITH INSTALLATION OF THE REINFORCED CONCRETE BOX CULVERTS AND THIS PLAN. REFERENCE SHEETS 3 - 4. FOR GUARDRAIL DETAILS.



PROPERTY LINE
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
WETLAND DELINEATION BOUNDARY
PROPOSED 100 YEAR
FLOODPLAIN PER APPROVED CLMRC
EFFECTIVE 100 YEAR FLOODPLAIN PER
FIRM PANEL 08041C0350G
WETLAND DISTURBANCE AREA



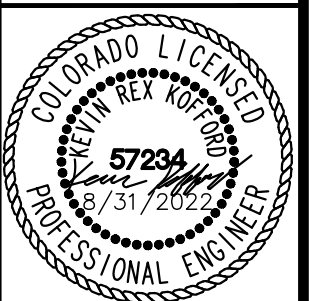
PCD FILE NO. CDR-21-012

3	COUNTY RESUBMITTAL #3	KRK	8/31/22	KRK
2	COUNTY RESUBMITTAL #2	KRK	4/6/22	KRK
1	COUNTY RESUBMITTAL #1	KRK	1/21/22	KRK
NO.	REVISION	BY	DATE	APPR.

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

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

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
HORIZONTAL CONTROL

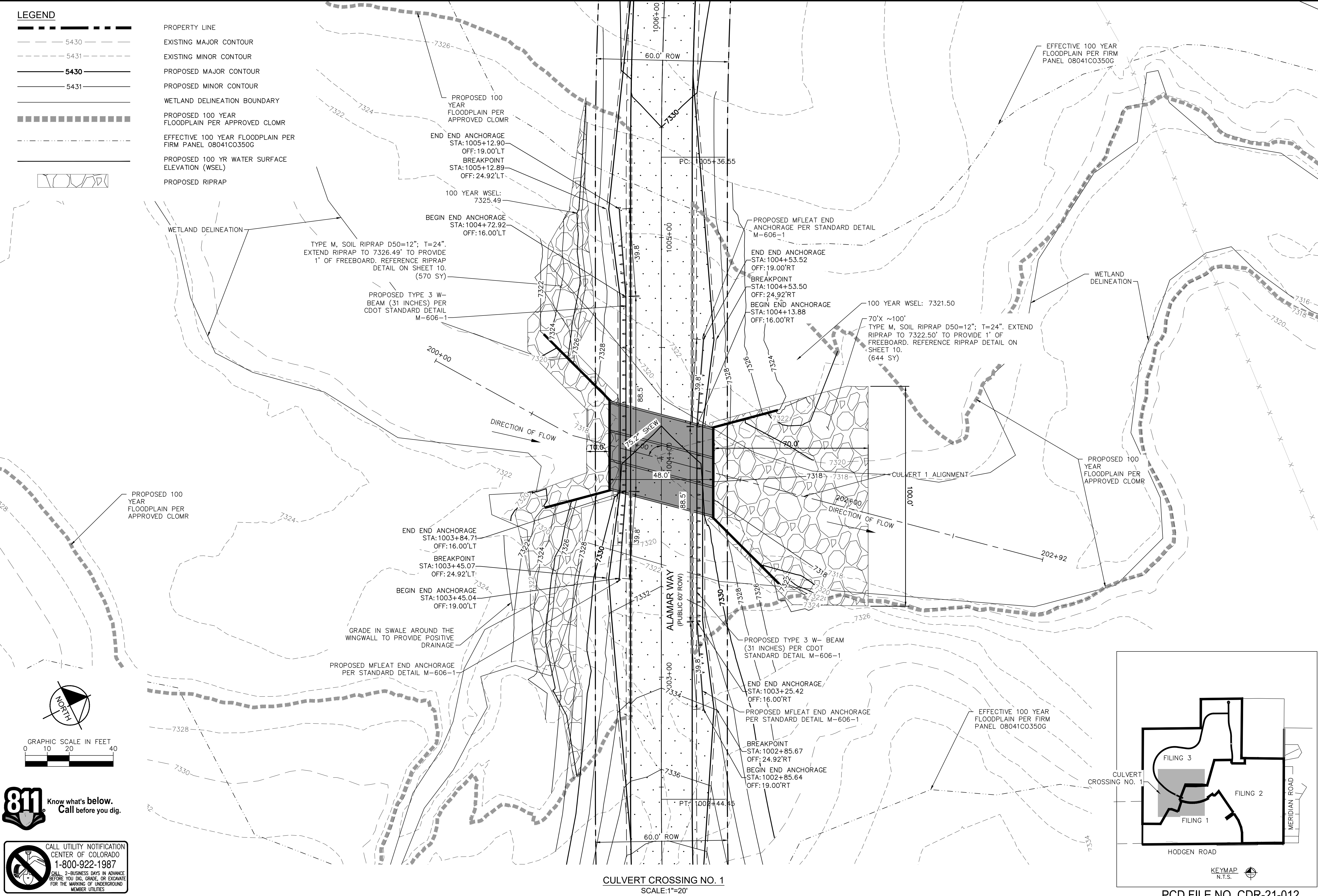
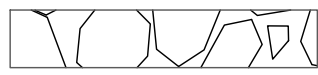
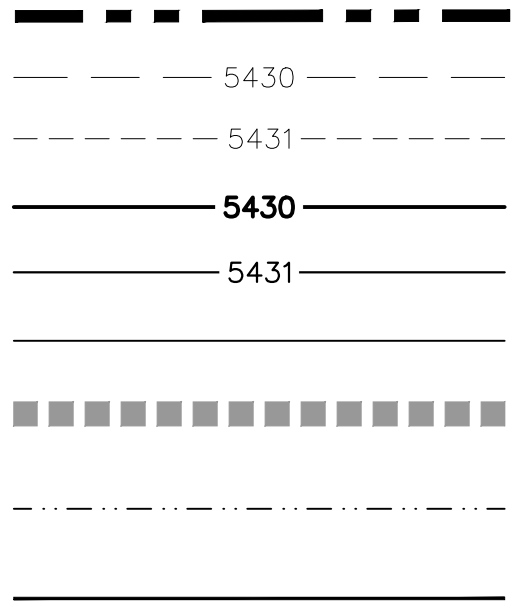


PROJECT NO. 196106001
SHEET

2

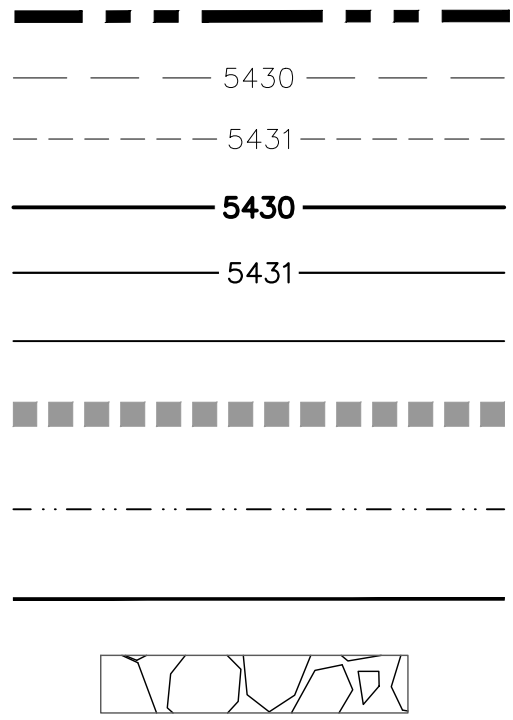
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LEGEND

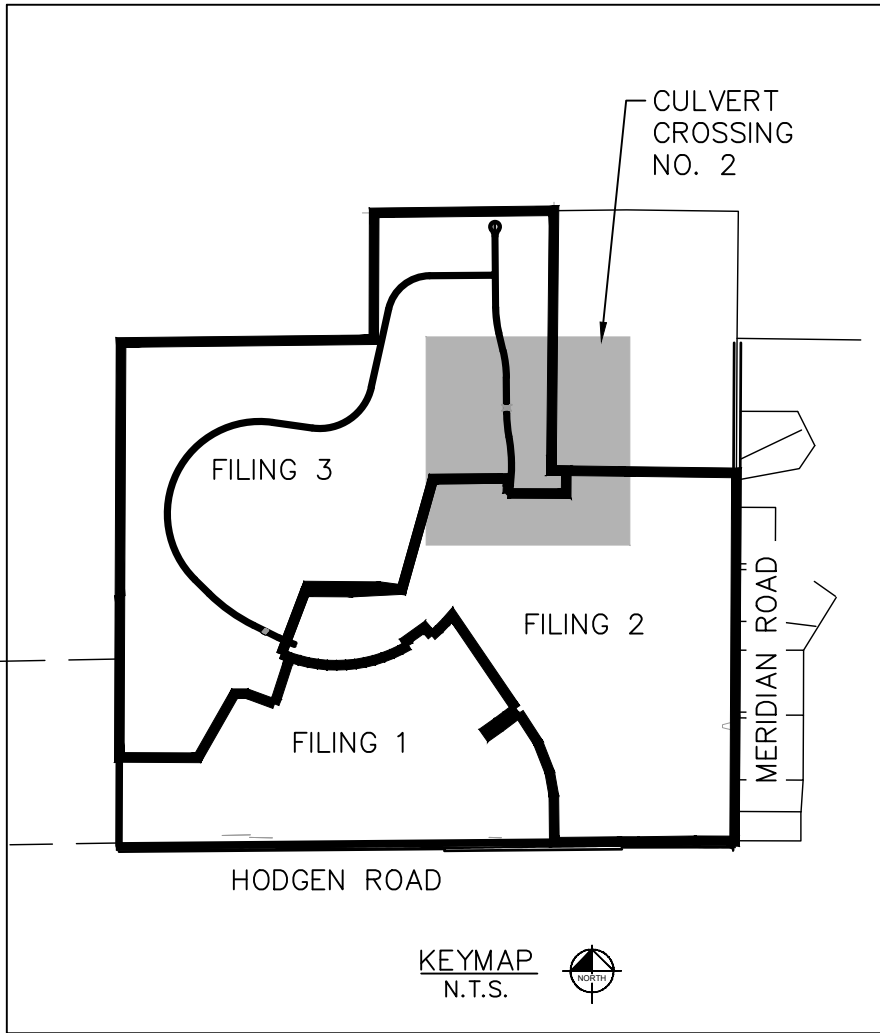
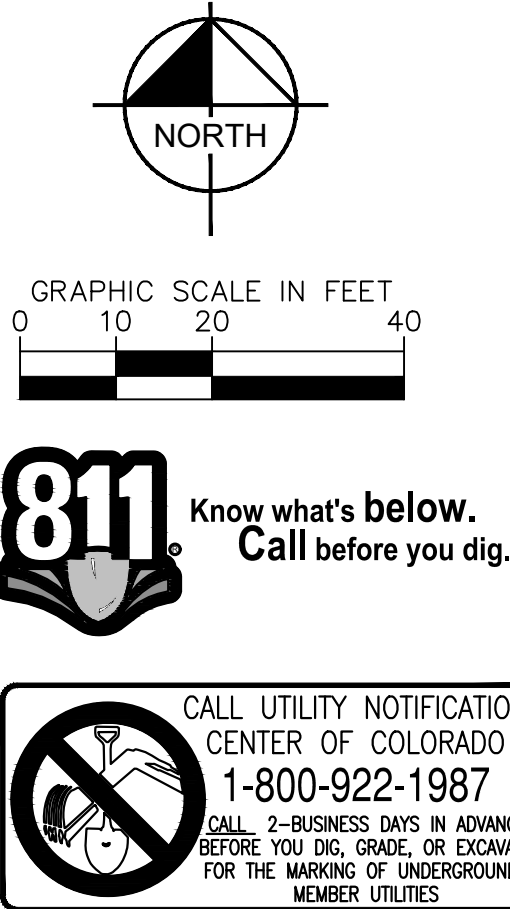
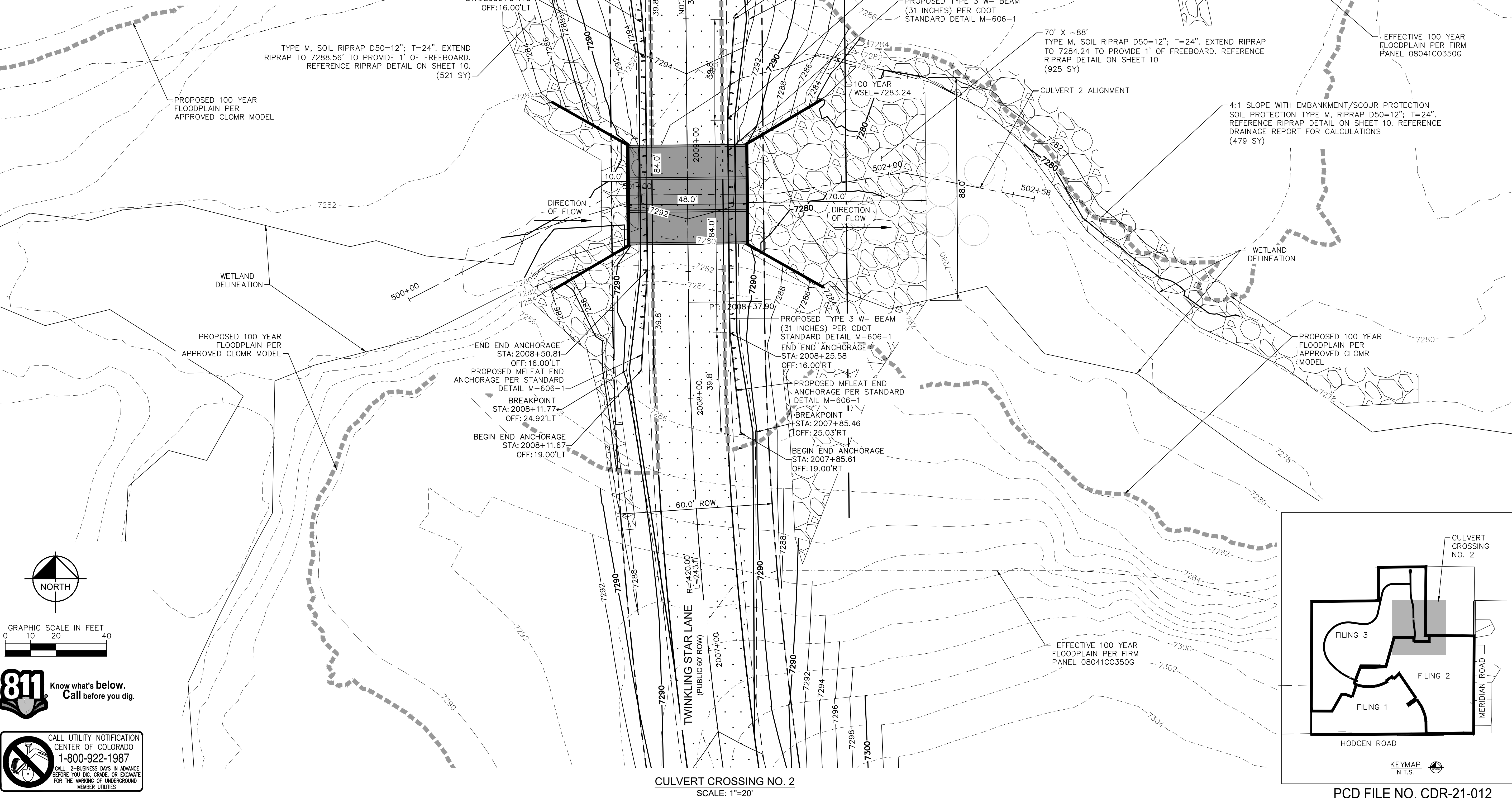


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LEGEND



PROPERTY LINE
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
WETLAND DELINEATION BOUNDARY
PROPOSED 100 YEAR FLOODPLAIN PER APPROVED CLOMR
EFFECTIVE 100 YEAR FLOODPLAIN PER FIRM PANEL 08041C0350G
PROPOSED 100 YR WATER SURFACE ELEVATION (WSEL)
PROPOSED RIPRAP



NO.	REVISION	BY	DATE	APPR
3	COUNTY RESUBMITTAL #3	KRK	8/31/22	KRK
2	COUNTY RESUBMITTAL #2	KRK	4/6/22	KRK
1	COUNTY RESUBMITTAL #1	KRK	1/21/22	KRK

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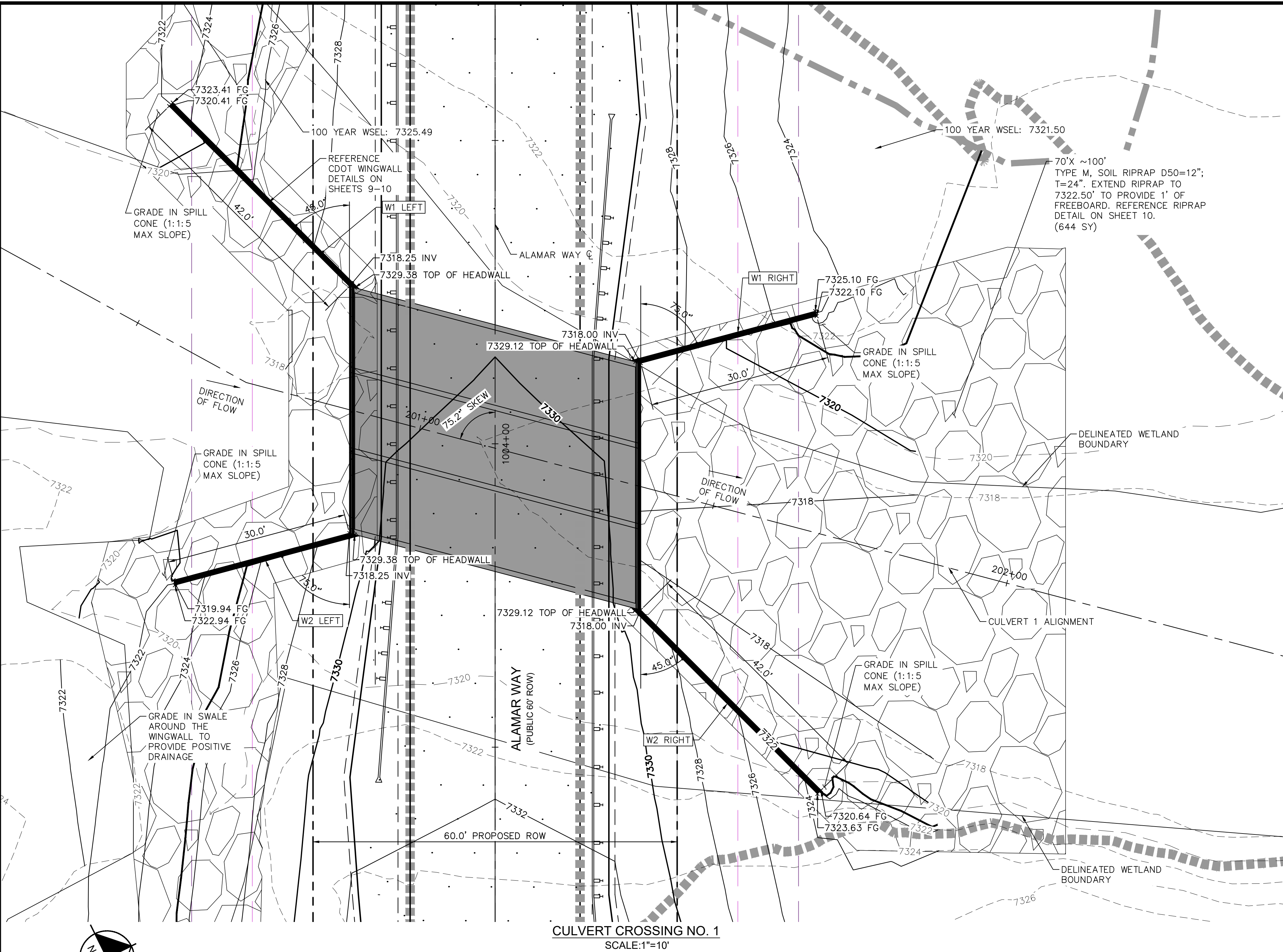
DESIGNED BY: KRK
DRAWN BY: JRH
CHECKED BY: KRK
DATE: 9/3/2021

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT 2-SITE PLAN

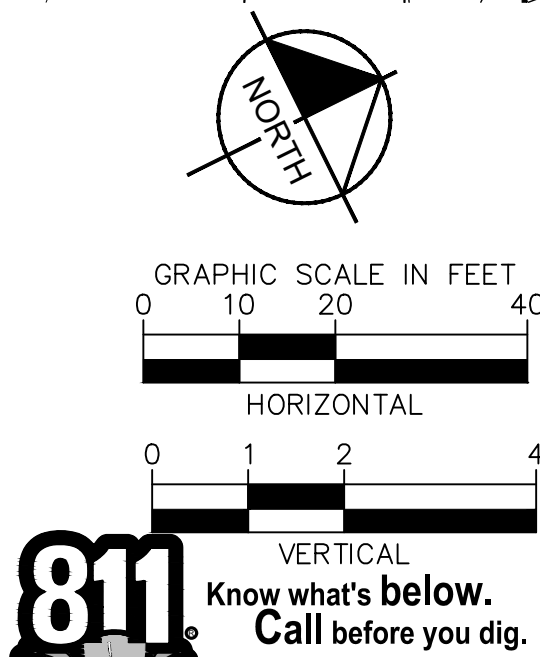


PROJECT NO.
196106001
SHEET

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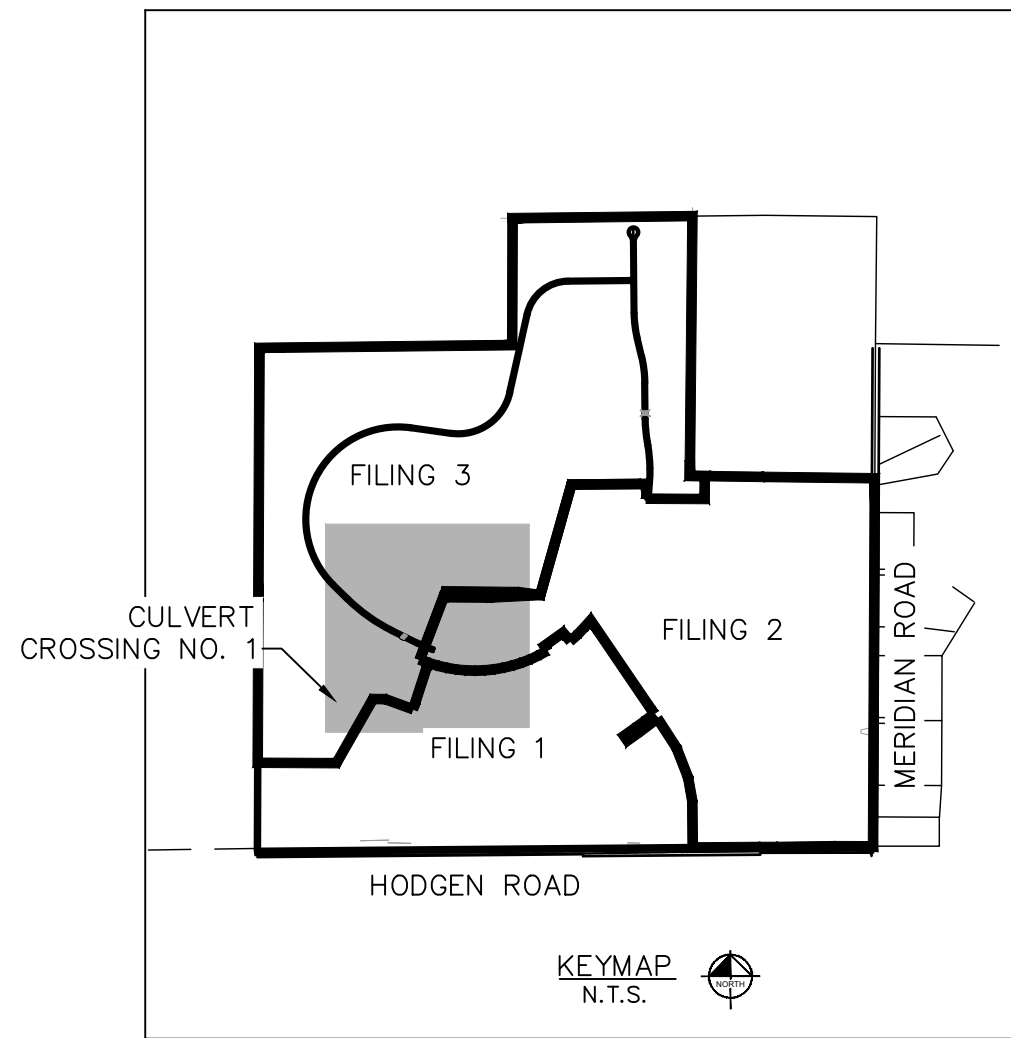
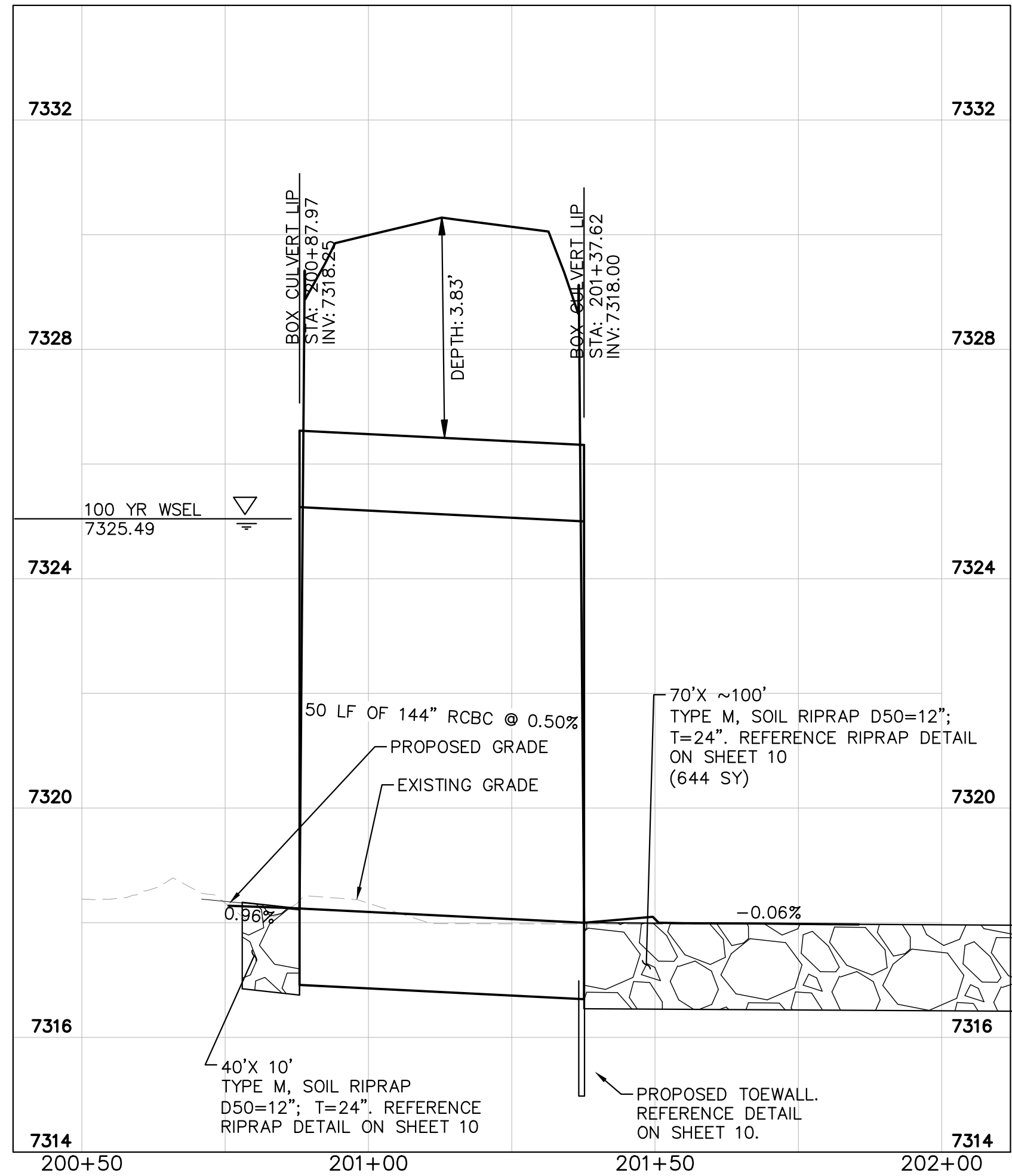
CULVERT CROSSING NO. 1
SCALE: 1"=10'



WINGWALL DIMENSION SUMMARY

LOCATION	h (FT)*	k (FT)	LENGTH (FT)	m**	θ (DEG)
W1 RIGHT	12'-0 1/2"	3	30	10'- 7 1/2 "	75
W2 RIGHT	12'-0 1/2"	3	42	10'- 7 1/2 "	45
W1 LEFT	12'-0 1/2"	3	42	10'- 7 1/2 "	45
W2 LEFT	12'-0 1/2"	3	30	10'- 7 1/2 "	75

*HEIGHT IS FROM BOTTOM OF SLAB TO TOP OF MODIFIED HEADWALL PER DETAIL ON SHEET 10
**M IS DIFFERENT VALUE THAN STANDARD EQUATION DUE TO MODIFIED HEADWALL HEIGHT



NO.	BY	DATE	REVISION
3	KRK	8/31/22	COUNTY RESUBMITTAL #3
2	KRK	4/6/22	COUNTY RESUBMITTAL #2
1	KRK	1/21/22	COUNTY RESUBMITTAL #1

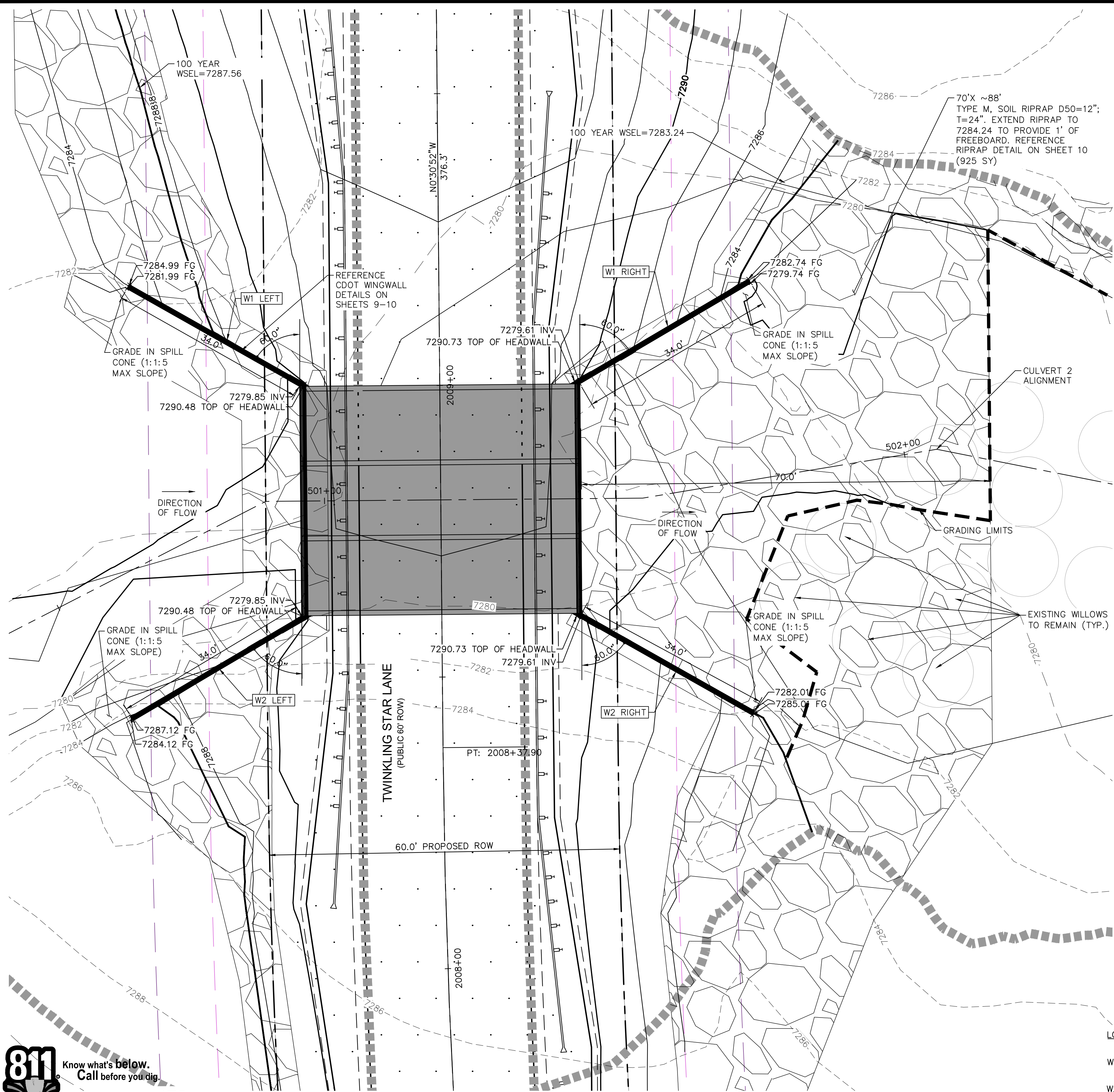
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2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180
DESIGNED BY: KRK
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WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT 1-PLAN & PROFILE



PROJECT NO.
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SHEET
5

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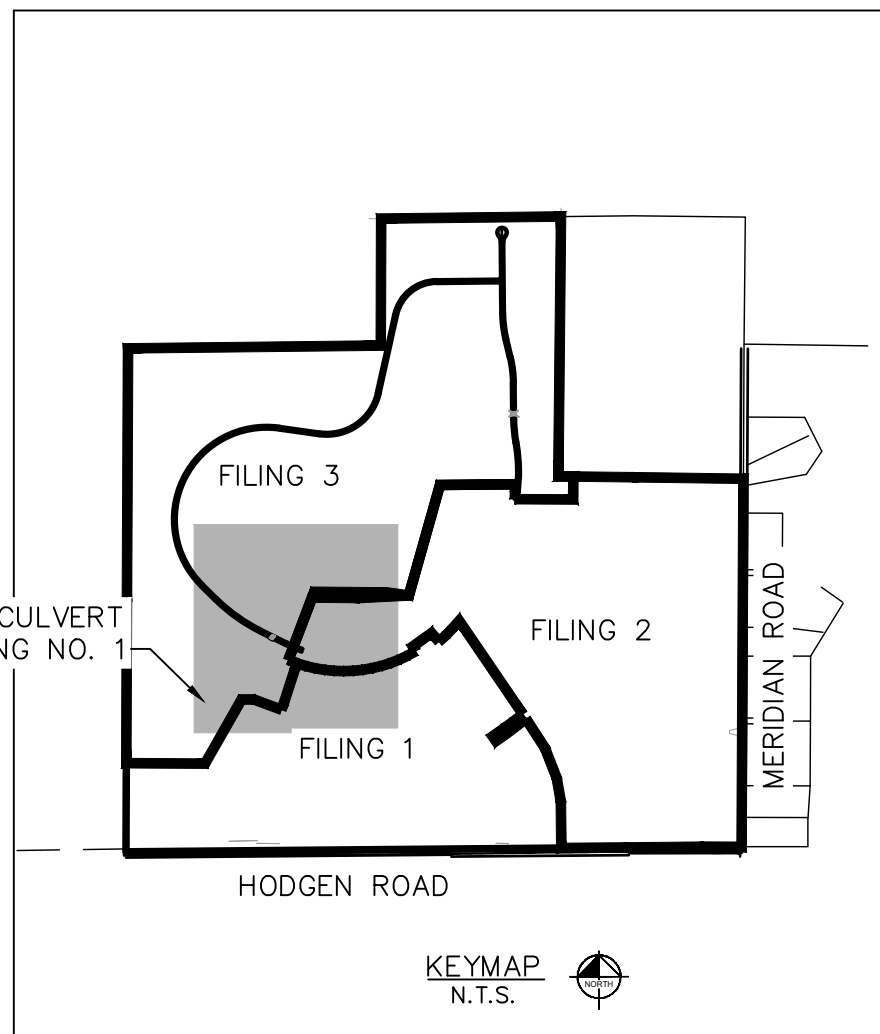
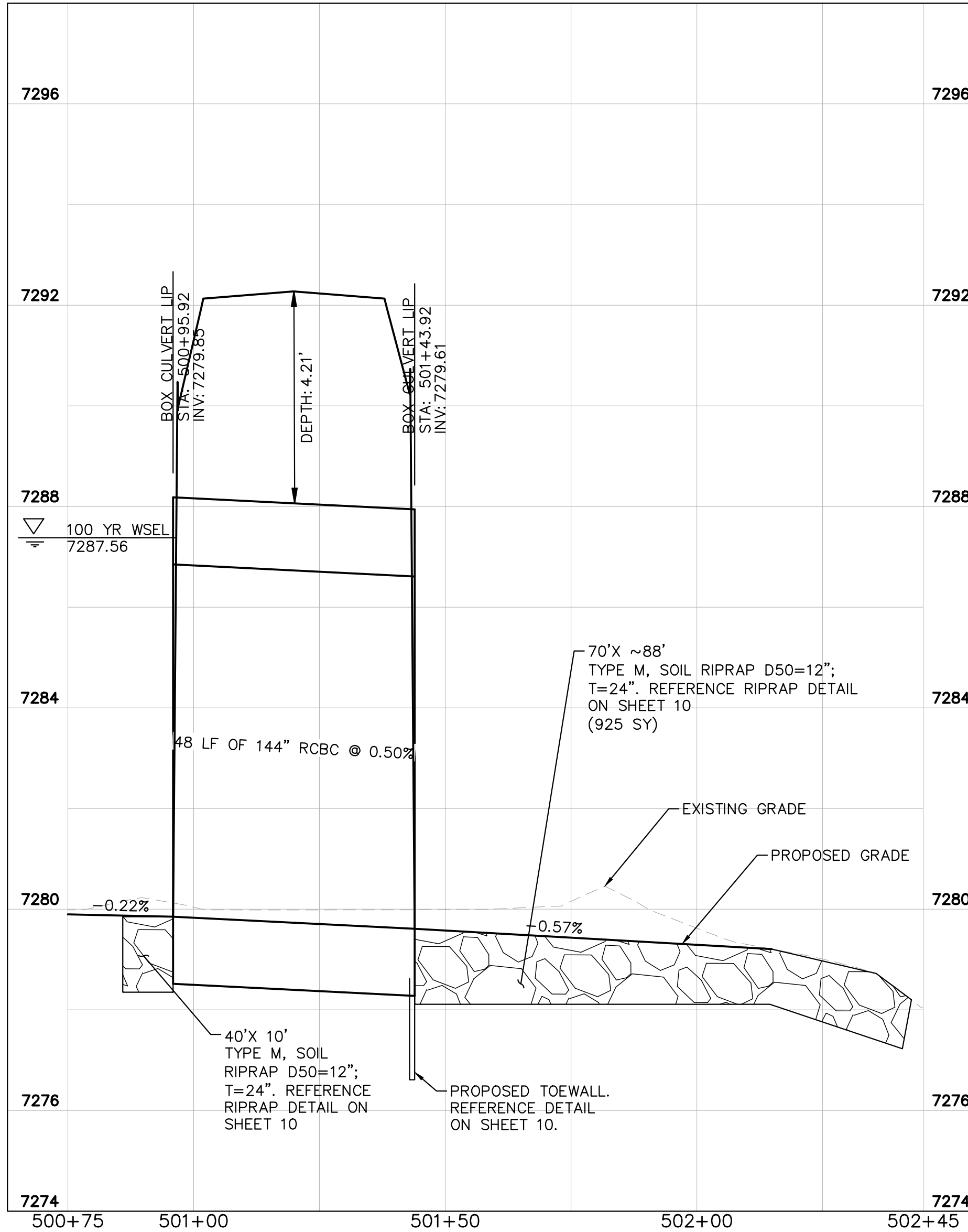


CULVERT CROSSING NO. 2
SCALE: 1"=40'

WINGWALL DIMENSION SUMMARY

LOCATION	h (FT)*	k (FT)	LENGTH (FT)	m**	θ (DEG)
W1 RIGHT	12'-0 1/2"	3	34	10'- 7 1/2"	60
W2 RIGHT	12'-0 1/2"	3	34	10'- 7 1/2"	60
W1 LEFT	12'-0 1/2"	3	34	10'- 7 1/2"	60
W2 LEFT	12'-0 1/2"	3	34	10'- 7 1/2"	60

*HEIGHT IS FROM BOTTOM OF SLAB TO TOP OF MODIFIED HEADWALL PER DETAIL ON SHEET 10
**M IS DIFFERENT VALUE THAN STANDARD EQUATION DUE TO MODIFIED HEADWALL HEIGHT



PCD FILE NO. CDR-21-012

WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT 2-PLAN & PROFILE

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DATE: 9/3/2021



PROJECT NO.
196106001

SHEET

6

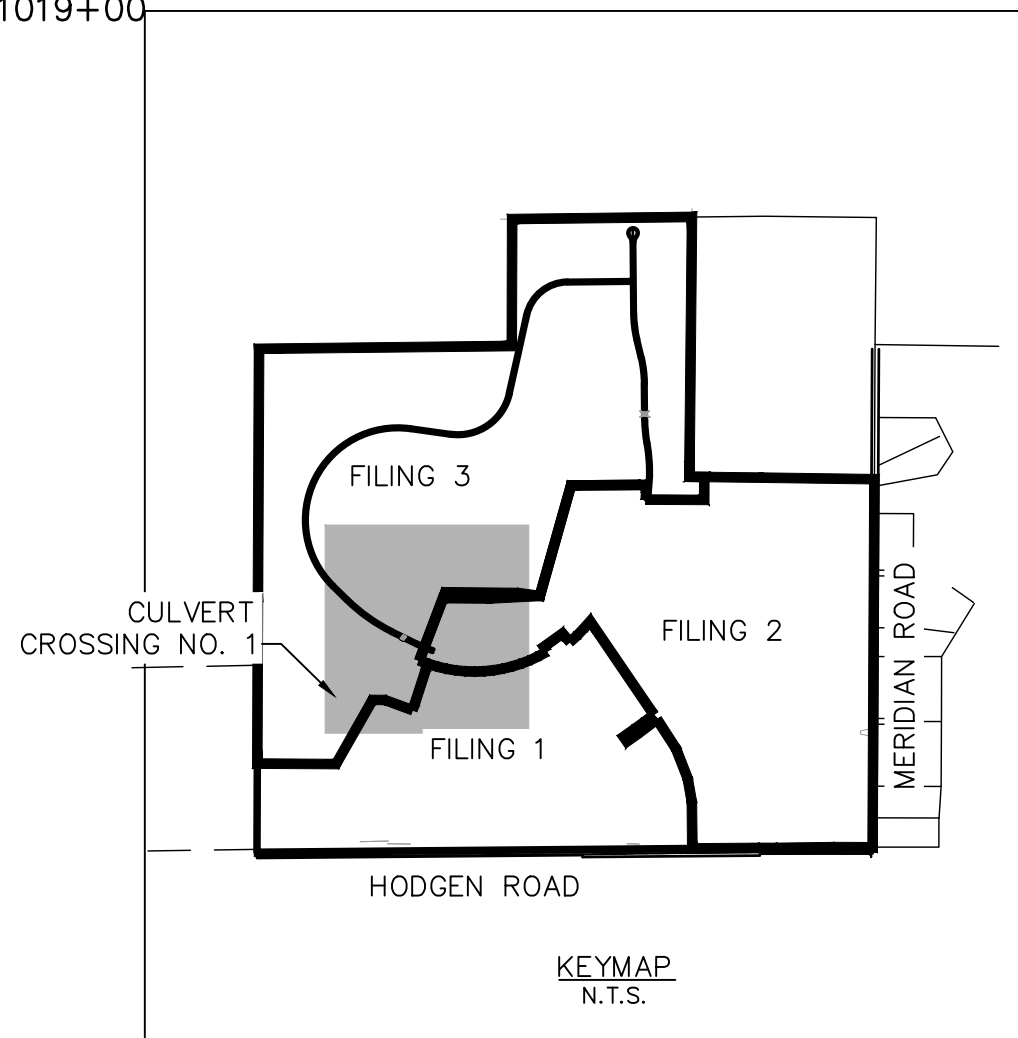
NO.	REVISION	BY	DATE	APPR.
3	COUNTY RESUBMITTAL #3	KRK	8/31/22	KRK
2	COUNTY RESUBMITTAL #2	KRK	4/6/22	KRK
1	COUNTY RESUBMITTAL #1	KRK	1/21/22	KRK



GRAPHIC SCALE IN FEET

0 40 80 160

HORIZONTAL



PCD FILE NO. CDR-21-012

NO.	REVISION	BY	DATE	APPR.
3	COUNTY RESUBMITTAL #3	KRK	8/31/22	KRK
2	COUNTY RESUBMITTAL #2	KRK	4/6/22	KRK
1	COUNTY RESUBMITTAL #1	KRK	1/21/22	KRK

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

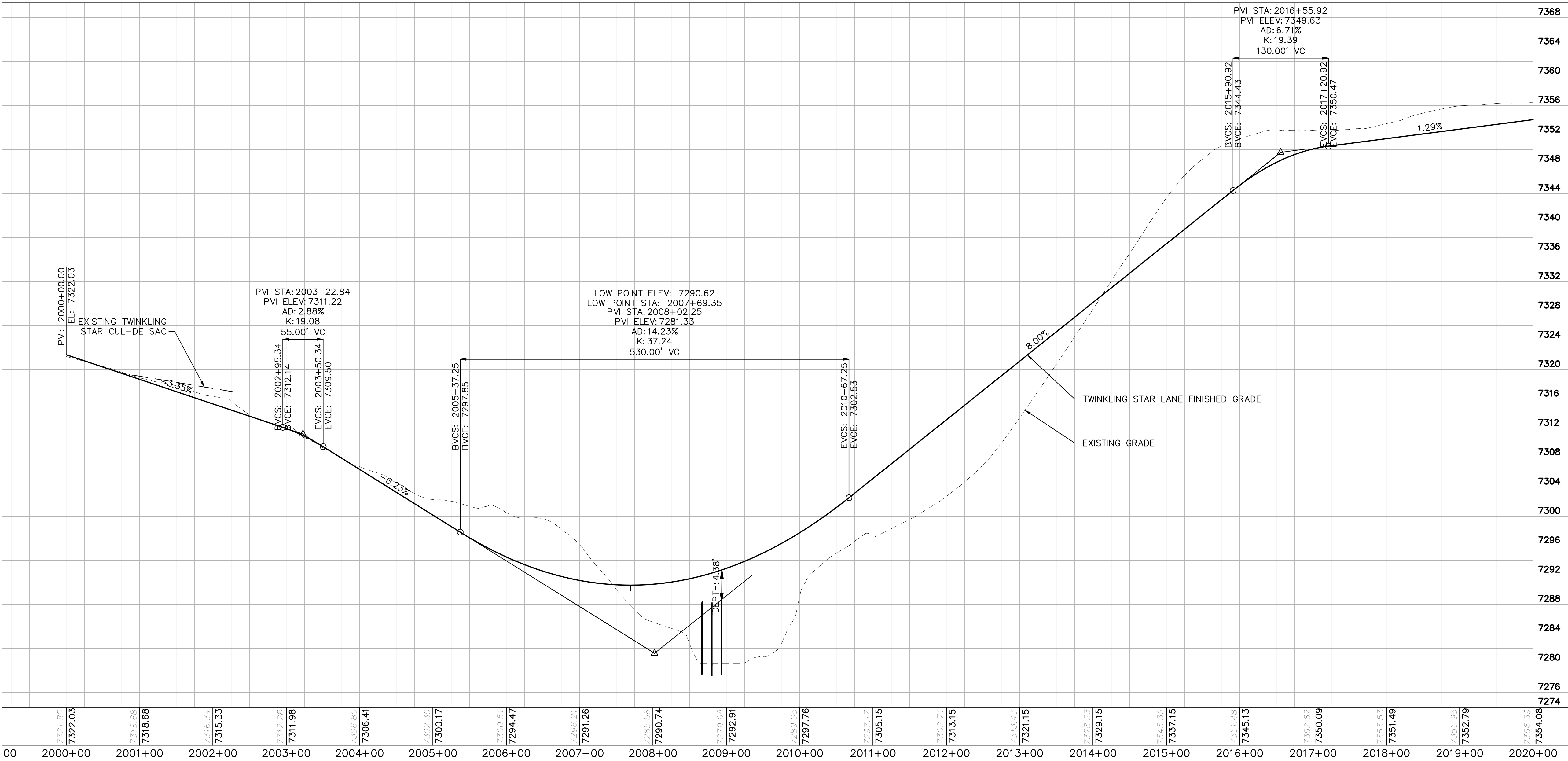


PROJECT NO.
196106001

SHEET

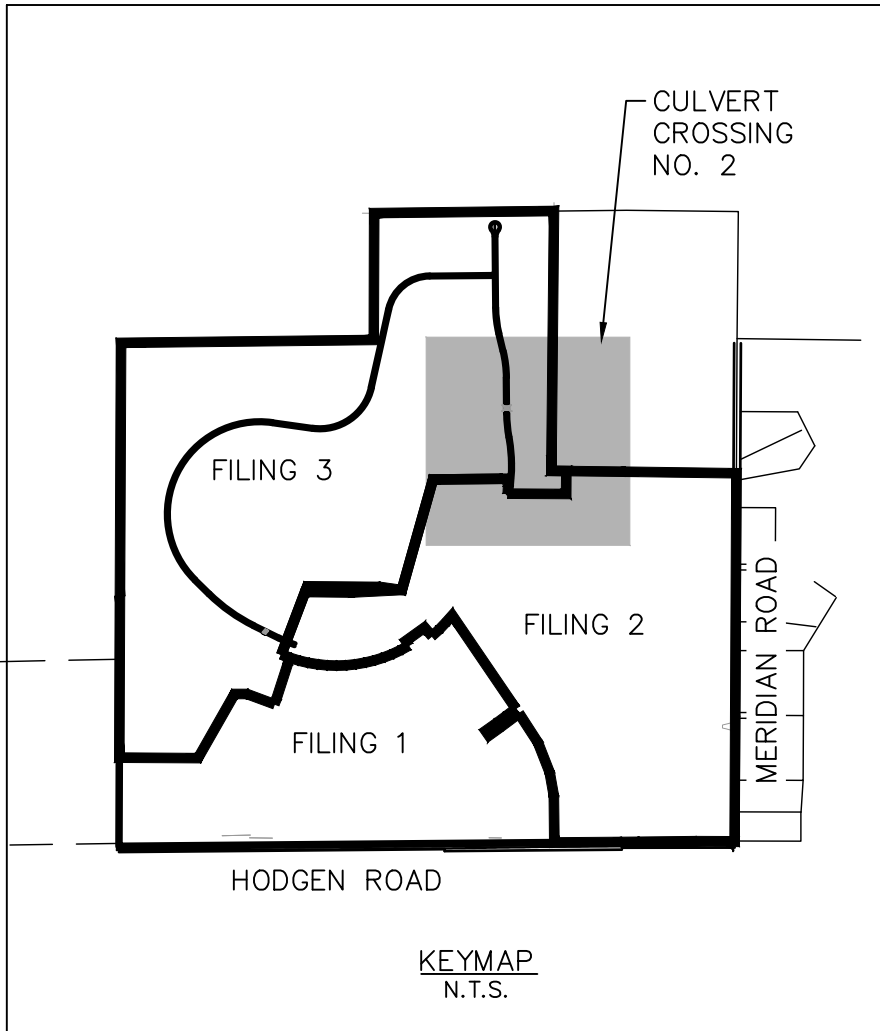
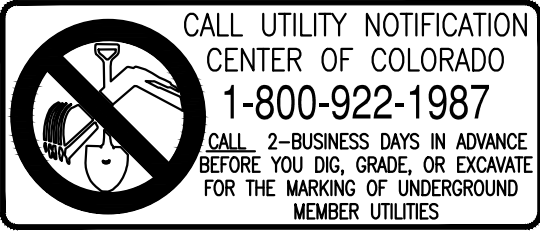
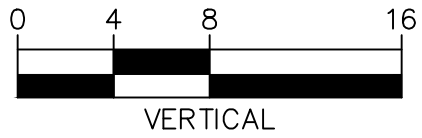
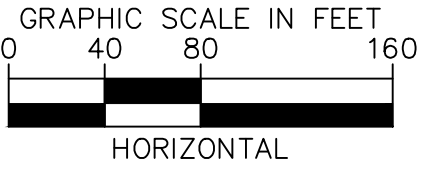
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CULVERT CROSSING NO. 2-FILE
SCALE: 1"=80'

NOTE: THIS PROFILE IS FOR REFERENCE ONLY. REFERENCE WINSOME FILING NO. 3 (SF229) FOR FULL ROADWAY PLAN AND PROFILES.



PCD FILE NO. CDR-21-012

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



PROJECT NO.
196106001

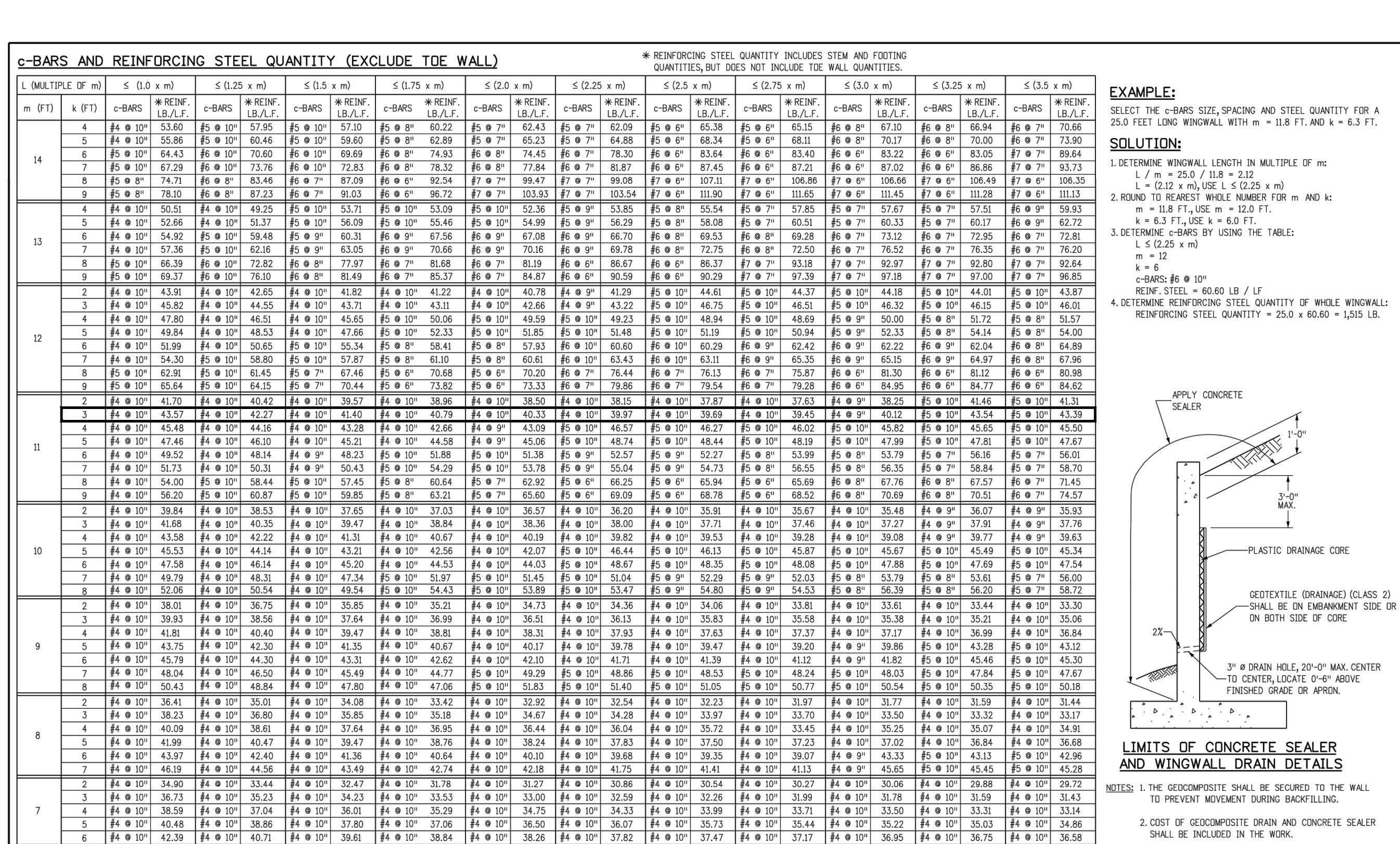
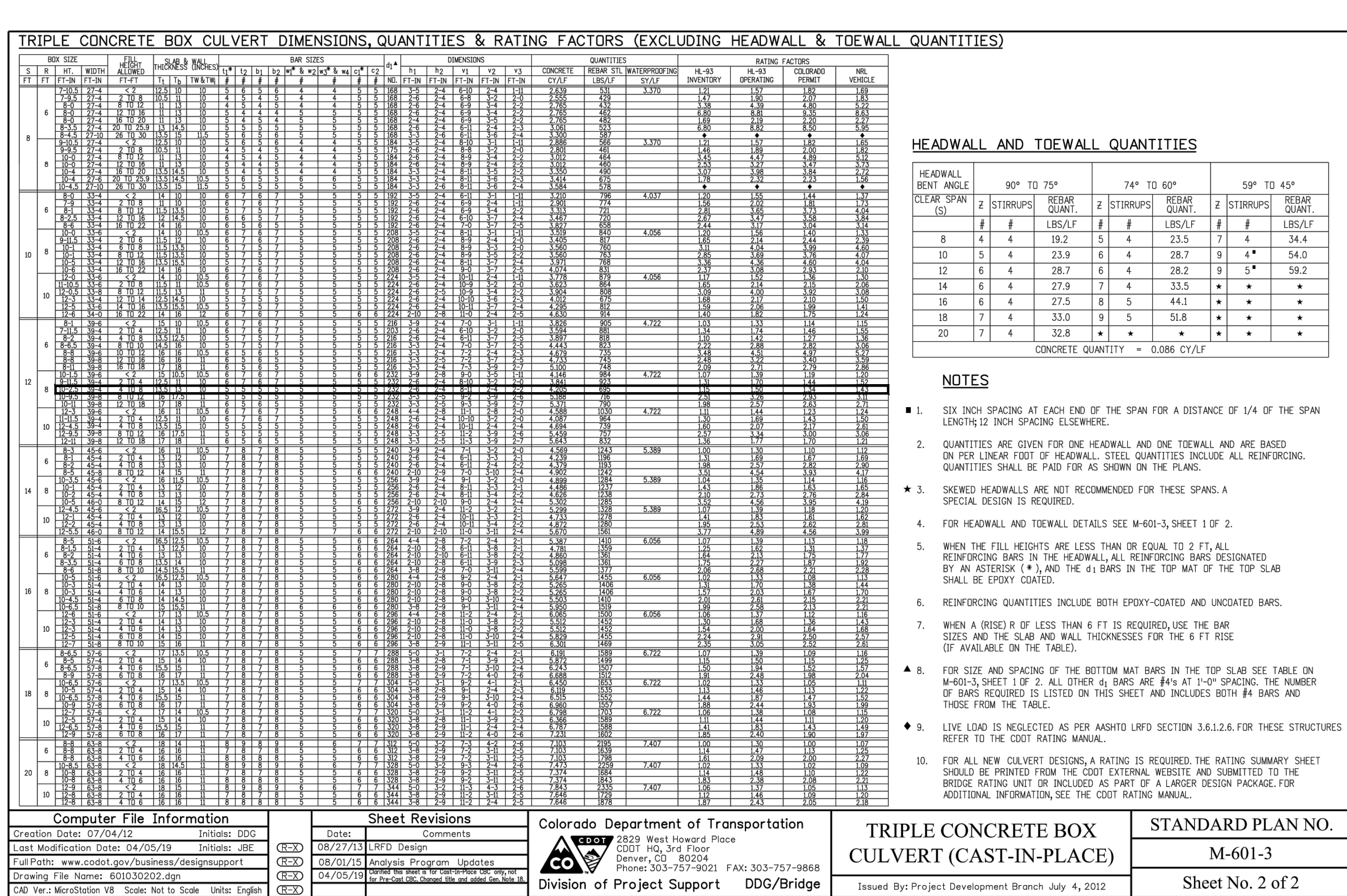
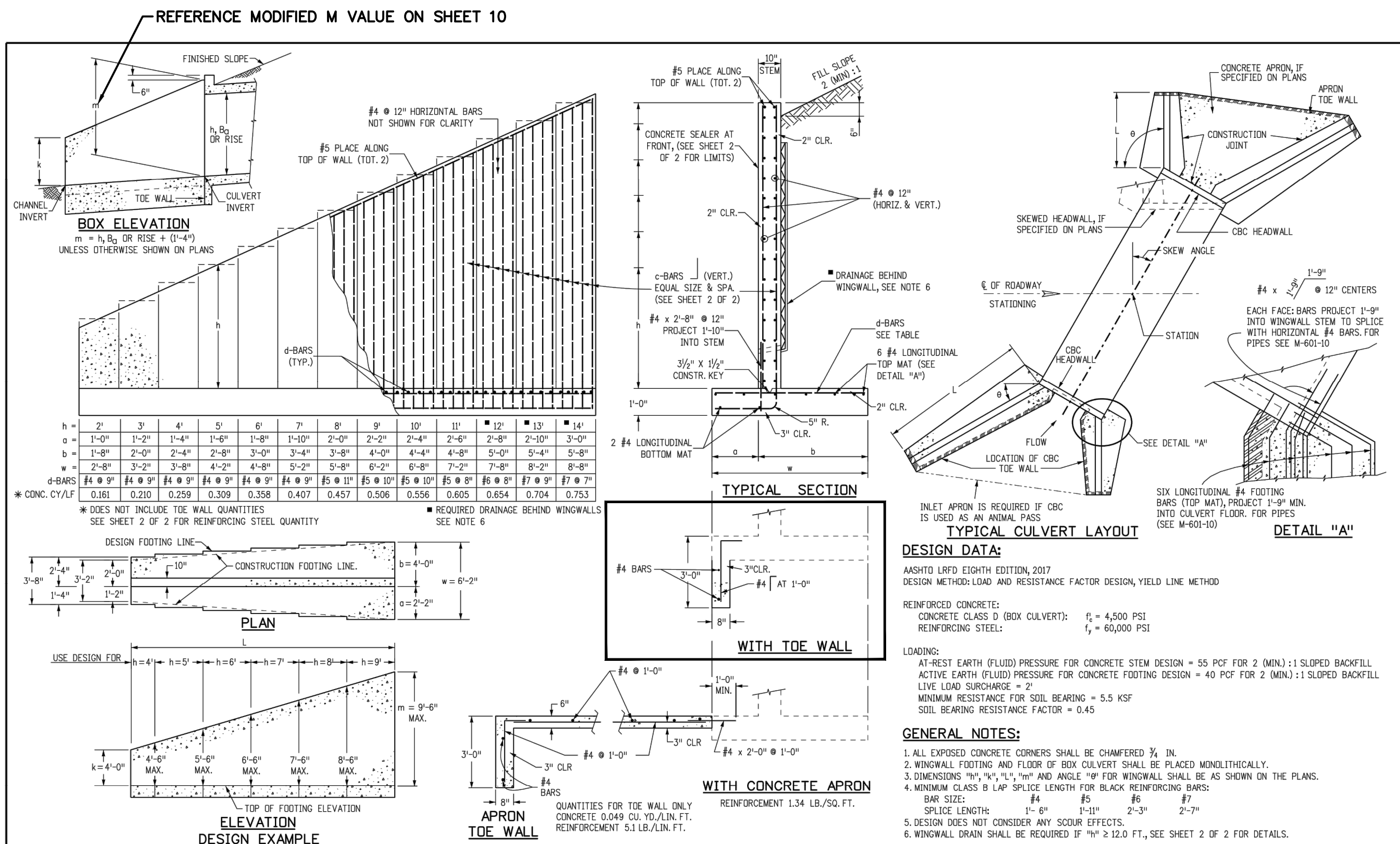
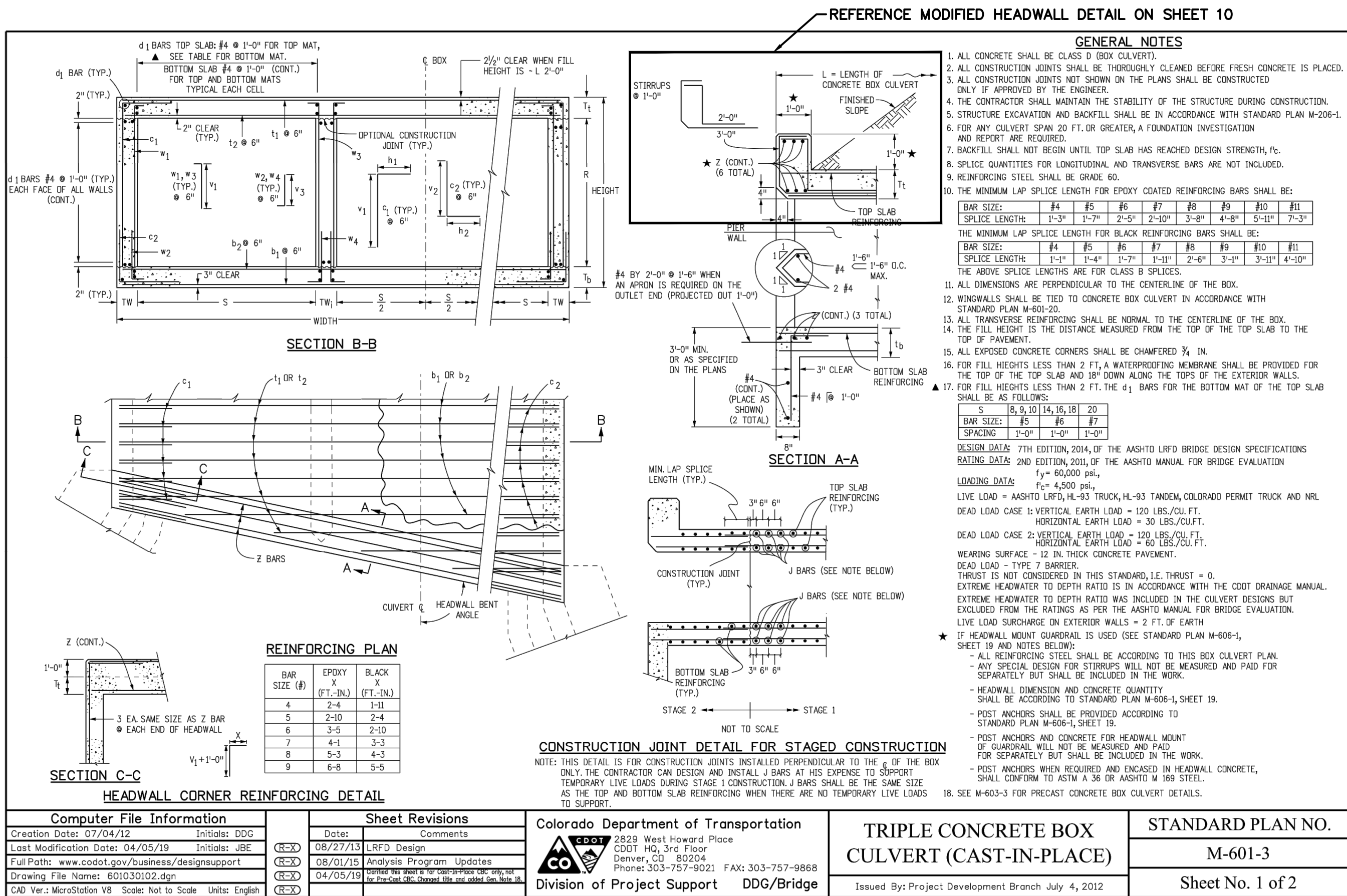
SHEET

8

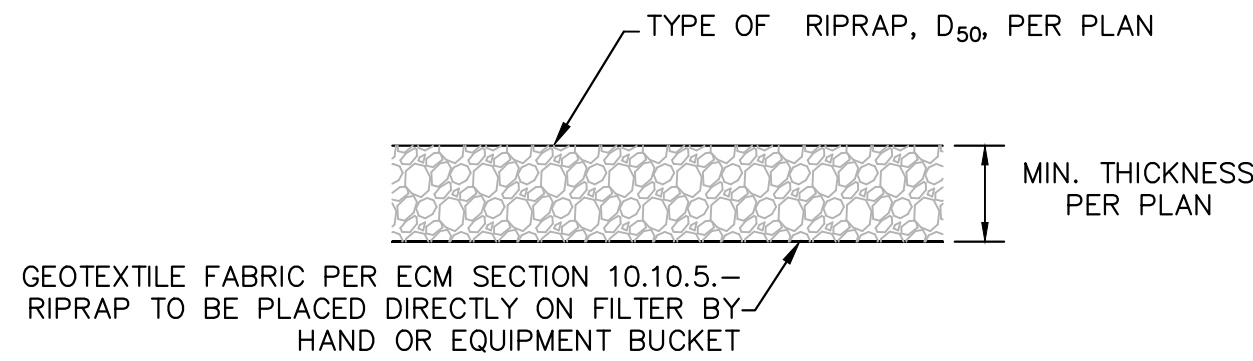


DESIGNED BY: KRK
DRAWN BY: JRH
CHECKED BY: KRK
DATE: 9/3/2021

NO.	REVISION	BY	DATE	APPR.
3	COUNTY RESUBMITTAL #3	KRK	8/31/22	KRK
2	COUNTY RESUBMITTAL #2	KRK	4/6/22	KRK
1	COUNTY RESUBMITTAL #1	KRK	1/21/22	KRK



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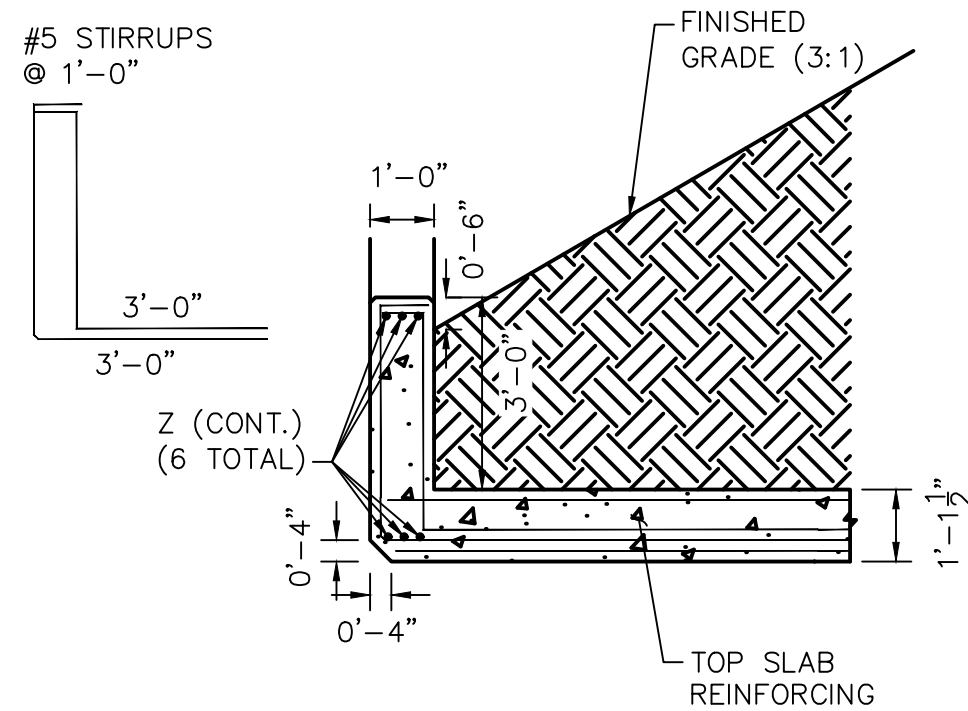
1. D50 = MEAN PARTICLE SIZE (INTERMEDIATE DIMENSION) BY WEIGHT.
2. RIP RAP SHALL BE PER PLAN AND SHALL BE MIXED WITH 30% SOIL TO 70% RIP RAP.
3. RIP RAP SECTION THICKNESS SHALL BE 2.0 TIMES THE SPECIFIED MEAN PARTICLE SIZE (I.E. D50 X 2.0 MINIMUM) PER ECM SECTION 10.10.3.
4. ALL RIP RAP SHALL BE UNDERLAIN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

TYPICAL RIPRAP SECTION DETAIL

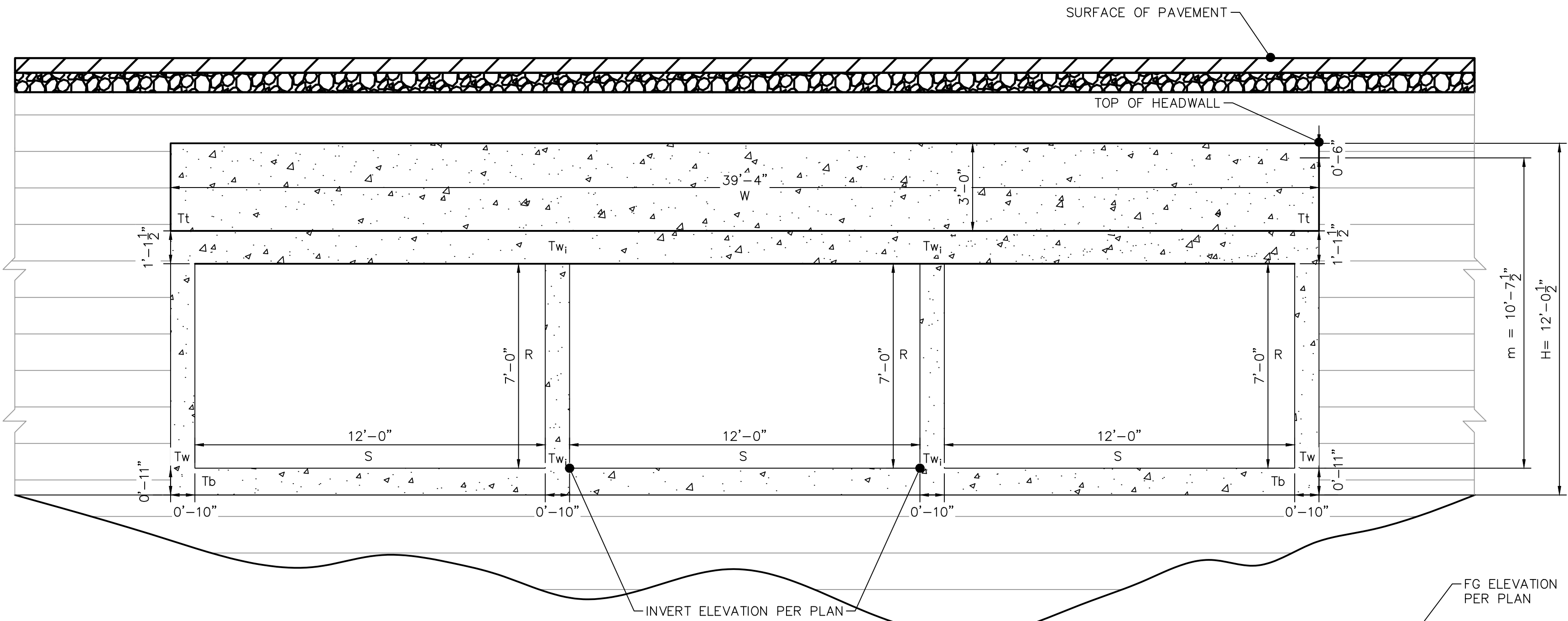
Table 9.5 Recommended wingwall flare angles (θ_a or θ_b)		
Skew Angle, θ°	θ_a°	θ_b°
90	60	60
80	50	70
70	45	80
60	40	90
50	30	90
40	20	100
30	15	105
< 30	Consult the Region Hydraulic Engineer	

NO SKEW-CULVERT 2

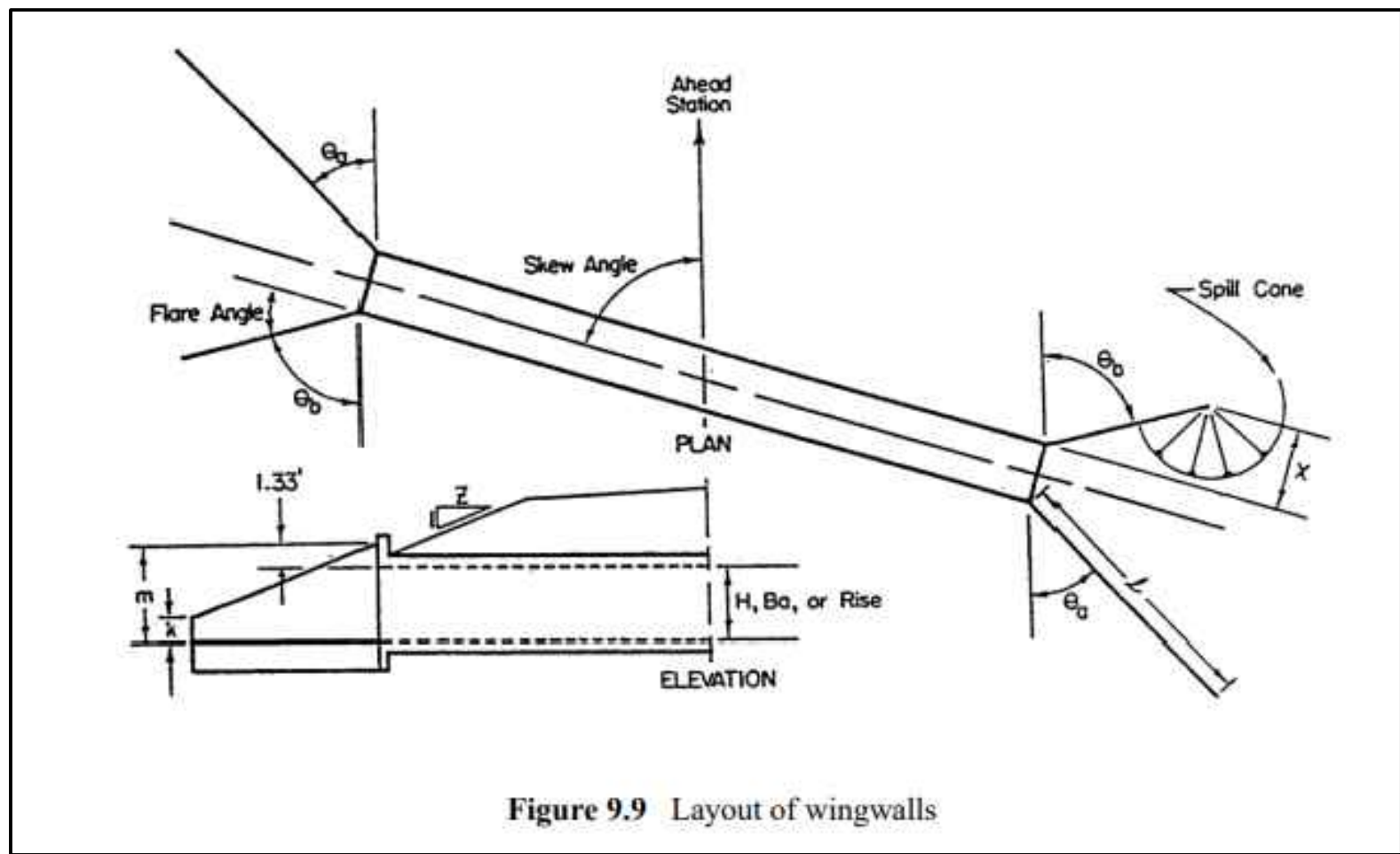
75° SKEW-CULVERT 1



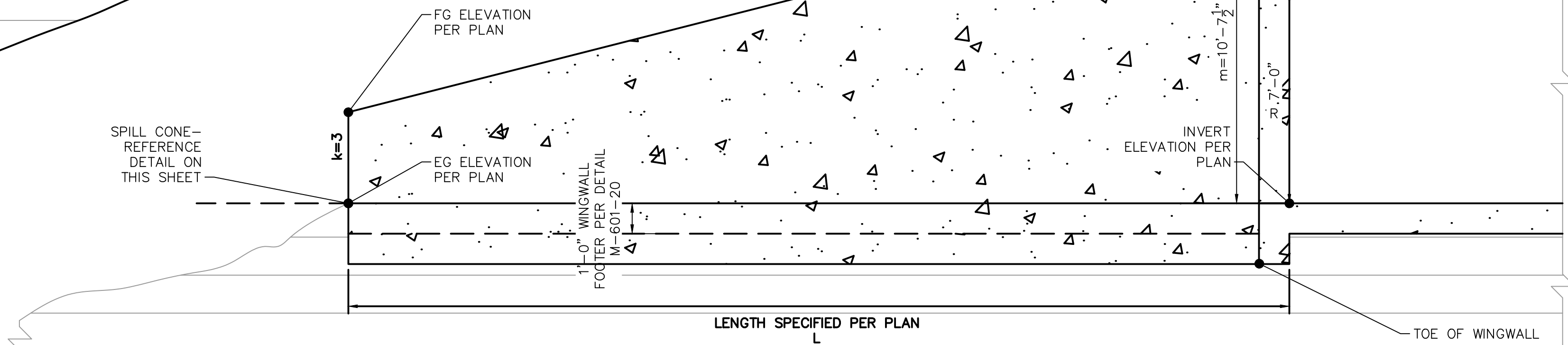
MODIFIED CULVERT HEADWALL SECTION DETAIL (A-A) FROM M-601-3
SCALE: 1"=3'



TRIPLE CONCRETE BOX CULVERT SECTION DETAIL
SCALE: 1"=3'



WINGWALL SPILL CONE CDOT DRAINAGE MANUAL FIGURE 9.9



WINGWALL (BOX CULVERT) SECTION DETAIL
SCALE: 1"=3'

NO.	BY	DATE	APPR.
3	KRK	8/31/22	KRK
2	KRK	4/6/22	KRK
1	KRK	1/21/22	KRK

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

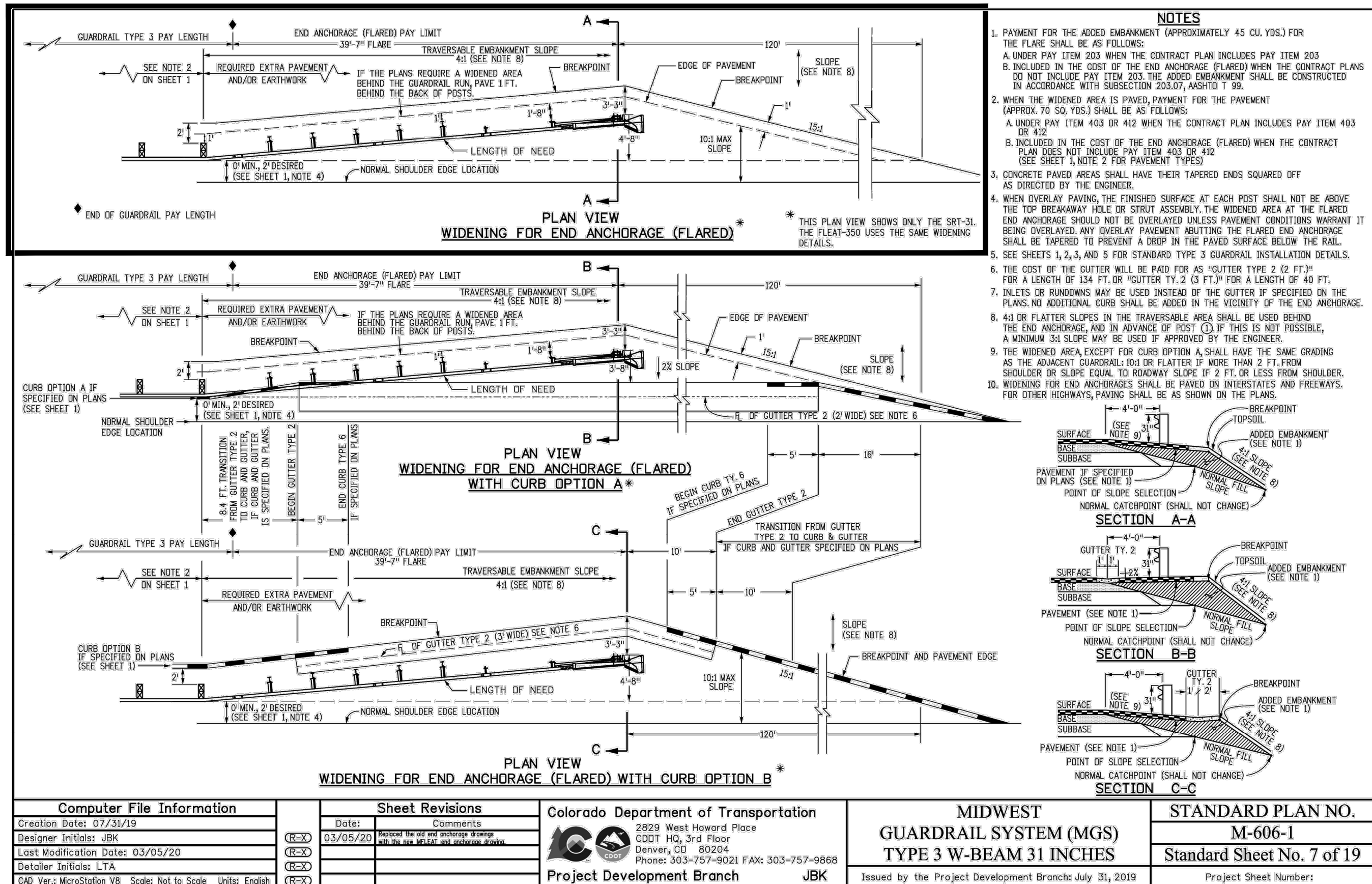
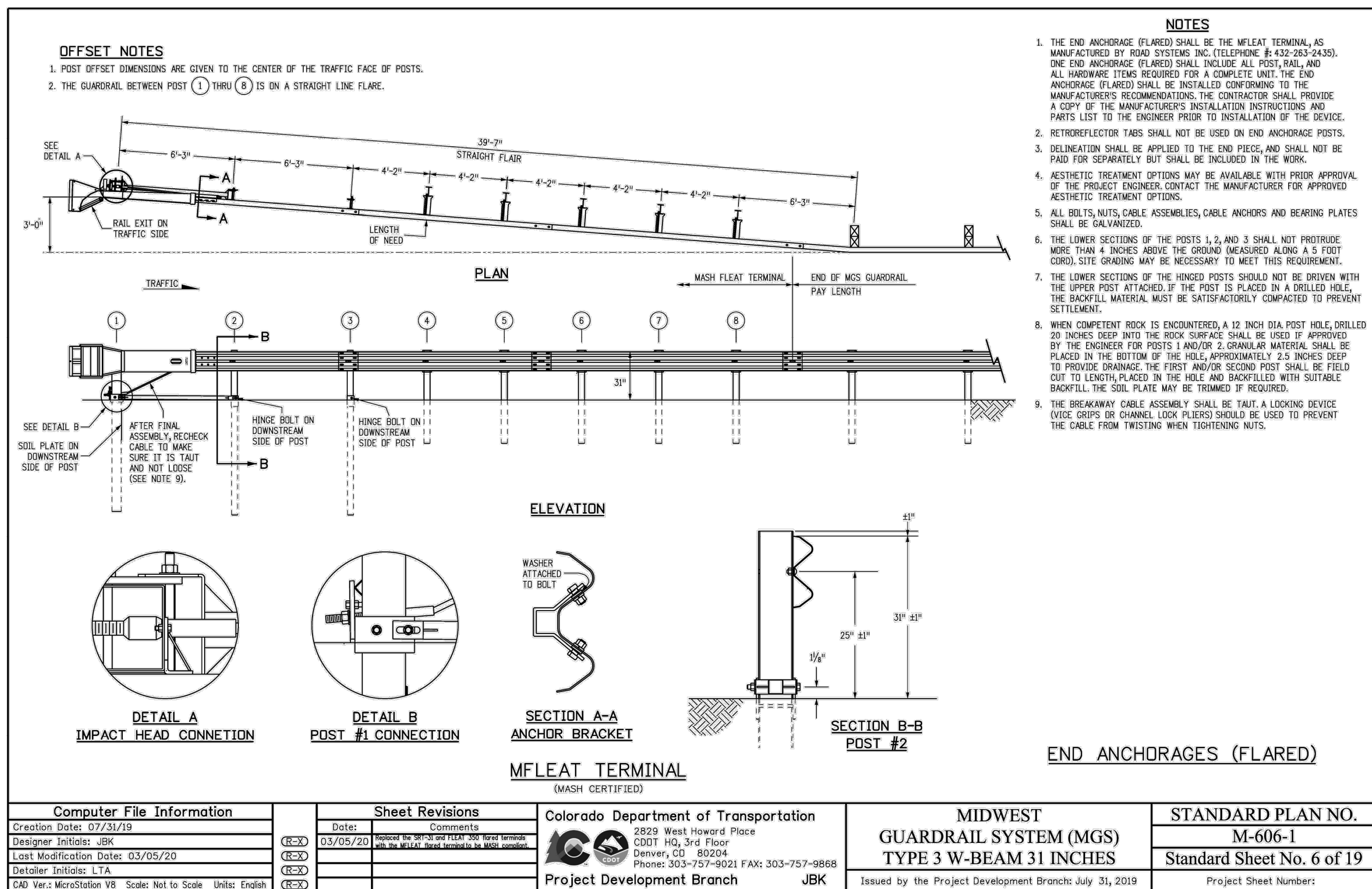
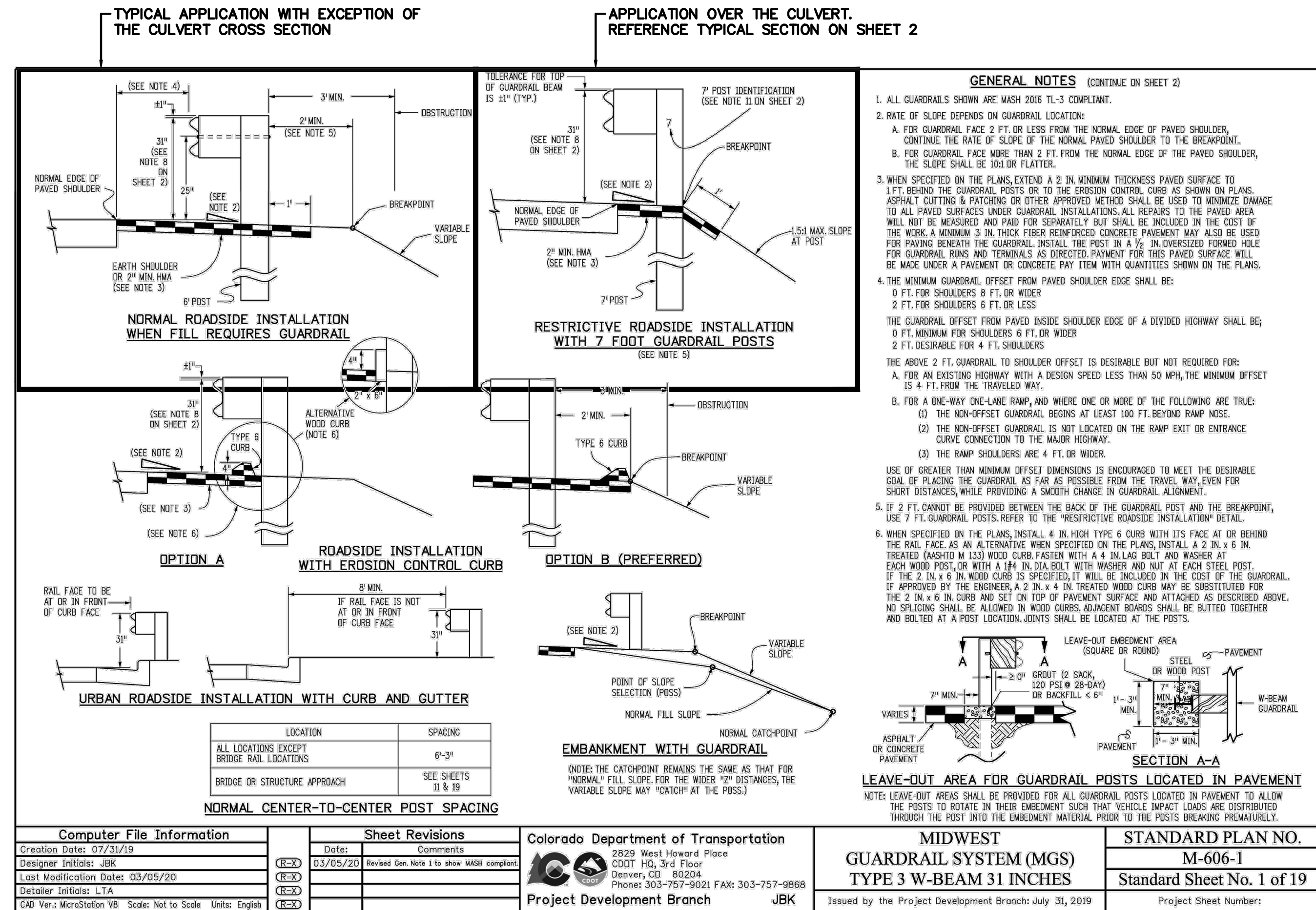
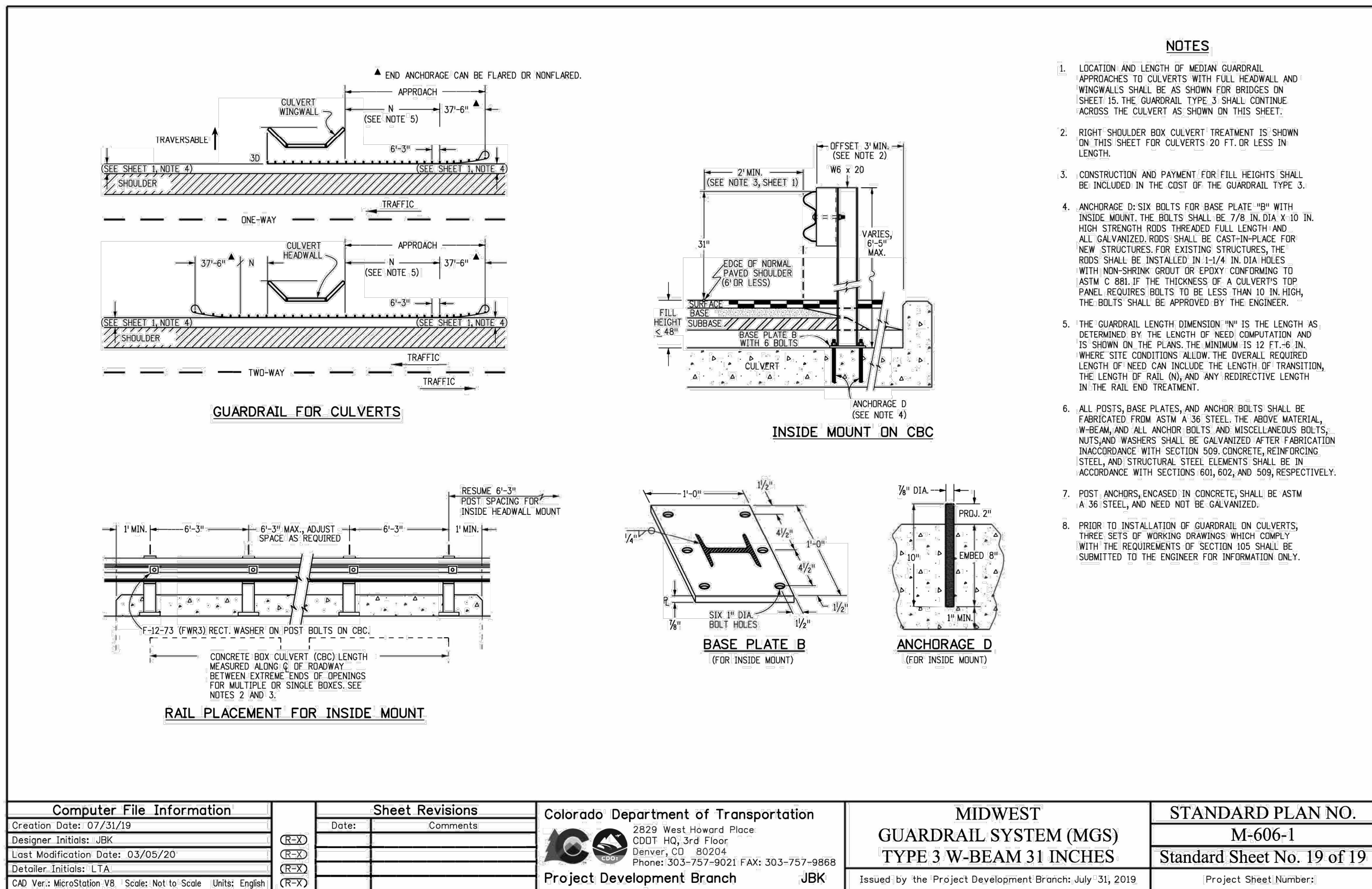


PROJECT NO.
196106001

SHEET

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GUARDRAIL APPLICATION DETAILS



PCD FILE NO. CDR-21-012

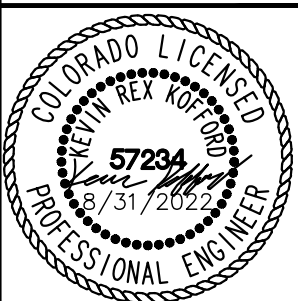
NO.	REVISION	DATE	BY
1	COUNTY RESUBMITTAL #1	8/31/22	KRK
2	COUNTY RESUBMITTAL #2	4/6/22	KRK
3	COUNTY RESUBMITTAL #3	8/31/22	KRK

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221 Nevada Avenue Suite 300
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WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
GUARDRAIL DETAILS



PROJECT NO.
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PART	MATERIAL SPEC.	GALVANIZING SPEC.	CORROSION-RESISTANT SPEC.
W-DEAM RAIL & TERNAL SECTIONS	AASHTO M 180, CLASS A	AASHTO M 180, TYPE 1 OR 2	AASHTO M 180, TYPE 4
BASE PLATE	ASTM A 36	AASHTO M III	N.A.
NUTS, BOLTS & STUDS FOR GENERAL USE	ASTM A 307		
HIGH STRENGTH BOLT & NUTS	ASTM A 325		AASHTO M 232, CLASS C
HIGH STRENGTH STUDS & NUTS	ASTM A 449		OR
ROUND STEEL WASHERS	ASTM F 436		OR
RECTANGULAR WASHERS	AASHTO M 180		AASHTO M 180, CLASS 50 TYPE 1
OTHER FITTINGS	ASTM A 36	AASHTO M III	

DIAMETER & TYPE (INCHES)	12" BLOCKS L = LENGTH (INCHES)	THREAD LENGTH (INCHES)	INTENDED USE	ASHKUTO-ACR-RTBA STANDARD NUMBER	NO. BOLTS, NUTS & WASHERS
%	1/4"	FULL (1 1/2")	ALL RAIL SPICES	FBB001	8 PER SPlice*
BUTTONHEAD DIAL SLODR.	22	MIN. 2"	SINGLE BLOCK & POST (TIMBER)	FBB04	1 PER POST
	33	MIN. 2"	DOUBLE BLOCK & POST (TIMBER)	FBB05	1 PER POST
	14	MIN. 2"	FASTEN NOTCHED BLOCK TO STEEL POST	FBB03	1 PER BLOCK

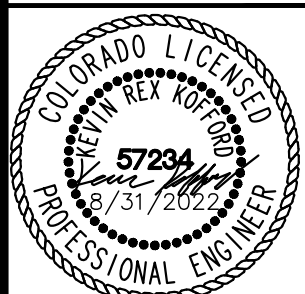
WASHERS NOT USED AT RAIL SPICES

[illegible]

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**WINSOME FILING NO. 3
EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
GUARDRAIL DETAILS**



PROJECT NO.
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SHEET

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