

A PORTION OF SECTIONS 13 AND 24, TOWNSHIP 11 SOUTH, RANGE 65 SOUTH, AND
A PORTION OF THE WEST HALF SECTON 19, TOWNSHIP 11 SOUTH, RANGE 64 WEST OF THE 6TH P.M
COUNTY OF EL PASO, STATE OF COLORADO

DEVELOPER:
WINSOME, LLC
1864 WOODMOOR DRIVE, SUITE 100
MONUMENT, CO 80132
TEL: (719) 476-0800
CONTACT: JOSEPH DESJARDIN

PLANNER/LANDSCAPE ARCHITECT:
NES, INC
619 N CASCADE AVENUE, SUITE 200
COLORADO SPRINGS, CO 80903
TEL: (719) 471-0073
EMAIL: ABARLOW@NESCOLORADO.COM
CONTACT: ANDREA BARLOW

ENGINEER:
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2 NORTH NEVADA, SUITE 300
COLORADO SPRINGS, CO 80903
(719) 453-0180
EMAIL:
KEVIN.KOFFORD@KIMLEY-HORN.COM
CONTACT: KEVIN KOFFORD

SURVEY:
EDWARD JAMES SURVEYING, INC.
926 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
TEL: (719) 576-1216
CONTACT: JONATHAN TESSIN

EL PASO COUNTY PLANNING
DEPARTMENT
2880 INTERNATIONAL CIRCLE, SUITE
110
COLORADO SPRINGS, CO 80910

PLANNING REVIEWER:
NINA RUIZ
TEL: (719) 520-6313
EMAIL: NINARUIZ@ELPASOCO.COM

ENGINEERING REVIEWER:
GILBERT LAFORCE
TEL: (719) 520-7945
EMAIL:

GILBERTLAFORCE@ELPASOCO.COM

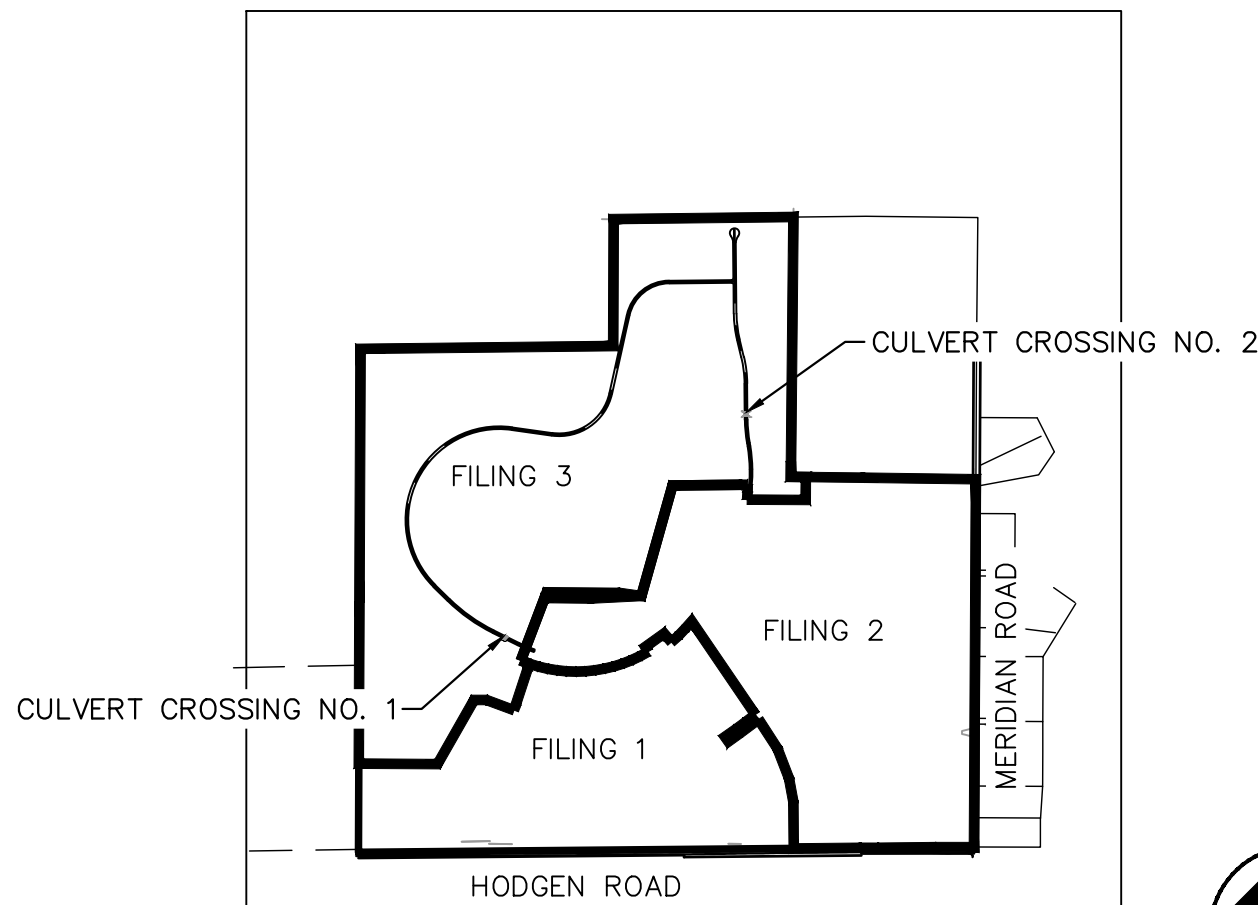
EPC DPW STORMWATER TEAM:
CHRISTINA FURCHAK
(719) 433-4863
EMAIL:
CHRISTINAFURCHAK@ELPASOCO

EPC PCD INSPECTIONS SUPERVISOR:
TEM: BRAD WALTERS
(719) 520-6819
EMAIL: BRADWALTERS@ELPASOCO.COM

FALCON FIRE DEPARTMENT:

FIRE CHIEF T. HARWIG
7030 OLD MERIDIAN ROAD
PAYTON, CO 80831
TEL: (719) 495-4050
EMAIL:
FALCONFIRE@FALCONFIREP

COLORADO DEPARTMENT OF PUBLIC
HEALTH AND ENVIRONMENT:
WATER QUALITY CONTROL DIVISION
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246
TEL: (303) 692-3500



VICINITY MAP
1"=2,000'

FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, MAP NUMBER 08041C0350G, EFFECTIVE DECEMBER 7, 2018 INDICATES THE AREA IN THE VICINITY OF THIS PARCEL OF LAND TO BE IN ZONE X (AREA DETERMINED TO BE OUT OF THE 500 YEAR FLOODPLAIN). A CONDITIONAL LETTER OF MAP REVISION HAS BEEN PROCESSED AND APPROVED FOR THIS REACH OF WEST KIOWA CREEK.

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	HORIZONTAL CONTROL
3	SITE PLAN
4	SITE PLAN
5	CULVERT 1—PLAN & PROFILE
6	CULVERT 2—PLAN & PROFILE
7	ALAMAR WAY PROFILE
8	TWINKLING STAR LANE PROFILE
9	CULVERT DETAILS
10	CULVERT DETAILS
11	CULVERT DETAILS

Provide Grading and Erosion Control Plan with the culvert construction unless it's detailed in the early GEC request. In which case add a reference on the plans to said GEC.

REFERENCE TO
THE GEC PLAN
ON THE PLANS

ADDED TO THE PLANS

Add Developer's Signature Block

ADDED TO THE PLANS

Engineer's Statement

ADDED TO THE PLANS

County Engineer signature block

ADDED TO THE PLANS

Including legends on sheets would help with the various linetypes throughout the plan set.

COMMENCING AT THE WEST QUARTER CORNER OF SAID SECTION 24, SAID POINT BEING THE POINT OF BEGINNING; THENCE N00°14'25"E ON THE WEST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 24, SAID LINE ALSO BEING ON THE WEST BOUNDARY OF PARCEL 4, AS RECORDED UNDER RECEPTION NUMBER 218900072, A DISTANCE OF 2636.99 FEET TO THE NORTHWEST CORNER OF SAID SECTION 24; THENCE N89°21'38"E ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SAID SECTION 24, A DISTANCE OF 2633.02 FEET TO THE NORTH QUARTER CORNER OF SAID SECTION 24; THENCE N00°10'29"E ON THE WEST LINE OF THE SOUTH HALF OF THE SOUTH EAST QUARTER OF SECTION 13, TOWNSHIP 11 SOUTH, RANGE 65 WEST, A DISTANCE OF 1321.95 FEET TO THE NORTHWEST CORNER OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 13; THENCE N89°20'26"N ON THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SAID SECTION 13, A DISTANCE OF 1873.37 FEET; THENCE S00°34'43"W A DISTANCE OF 2,706.21 FEET; THENCE S89°15'17"E A DISTANCE OF 769.17 FEET TO A POINT ON THE WEST LINE OF SECTION 19 TOWNSHIP 11 SOUTH, RANGE 64 WEST; THENCE S89°15'18"E A DISTANCE OF 1,158.32 FEET TO THE EAST LINE OF THE WEST HALF OF THE WEST HALF OF SAID SECTION 19; THENCE S00°17'08"N ON THE EAST LINE OF THE WEST HALF OF THE WEST HALF OF SAID SECTION 19, A DISTANCE OF 3,838.66 FEET TO A POINT 30.00 FEET NORTH OF THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19; THENCE S89°55'06"W, ON A LINE 30.00 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, ON SAID NORTHERLY RIGHT-OF-WAY LINE, A DISTANCE OF 30.00 FEET TO A POINT ON THE BOUNDARY LINE PARCEL NUMBER RW-36 AS SHOWN IN THE WARRANTY DEED AS RECORDED UNDER RECEPTION NUMBER 213096397; THENCE ON THE BOUNDARY OF SAID PARCEL THE FOLLOWING (3) THREE COURSES:

1. N00°17'06"E, 30.00 FEET WEST OF AND PARALLEL WITH THE EAST LINE OF THE WEST HALF OF THE WEST HALF OF SAID SECTION 19, A DISTANCE OF 5.25 FEET
2. N89°47'54"W A DISTANCE OF 368.05 FEET
3. S89°14'50"W A DISTANCE OF 603.68 FEET TO A POINT BEING 30.00 FEET NORTH OF THE SOUTH LINE OF SOUTHWEST QUARTER OF SAID SECTION 19;

THENCE S89°55'06"W ON A LINE 30.00 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, ON SAID NORTHERLY RIGHT-OF-WAY LINE A DISTANCE OF 173.03 FEET TO A POINT ON THE EAST LINE OF SAID SECTION 24; THENCE S89°30'15"W ON A LINE 30.00 NORTH OF AND PARALLEL WITH THE SOUTH LINE OF SAID SECTION 24, A DISTANCE OF 5238.44 FEET TO A POINT ON THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 24; THENCE N00°14'17"E ON THE WEST LINE OF SOUTHWEST QUARTER A DISTANCE OF 2,606.92 FEET TO THE POINT OF BEGINNING.

CONTAINING A CALCULATED AREA OF 33,455,315 SQUARE FEET OR 768.028 ACRES.
COLORADO.

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

THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 11 SOUTH, RANGE 65 WEST OF THE 6TH/ PRINCIPAL MERIDIAN BEING MONUMENTED ON THE SOUTHERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "S 28658" AND AT THE NORTHERLY END BY A 3-1/2" ALUMINUM CAP STAMPED "S 12103" BEING ASSUMED TO BEAR N001°4'25"E A DISTANCE OF 2636.99 FEET AS SHOWN IN LAND SURVEY PLAT RECORDED UNDER RECEPTION 218900072 RECORDS OF EL PASO COUNTY.



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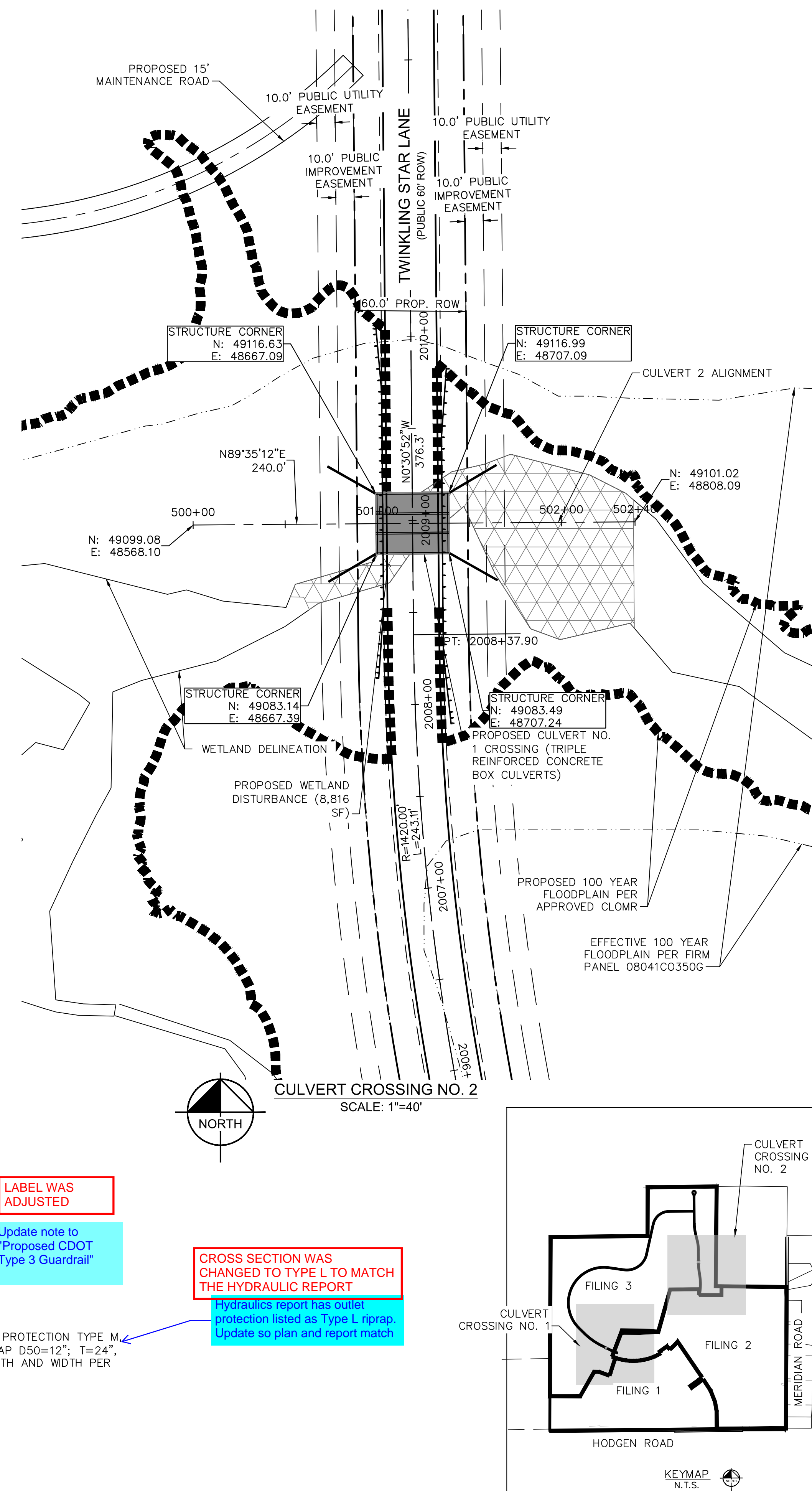
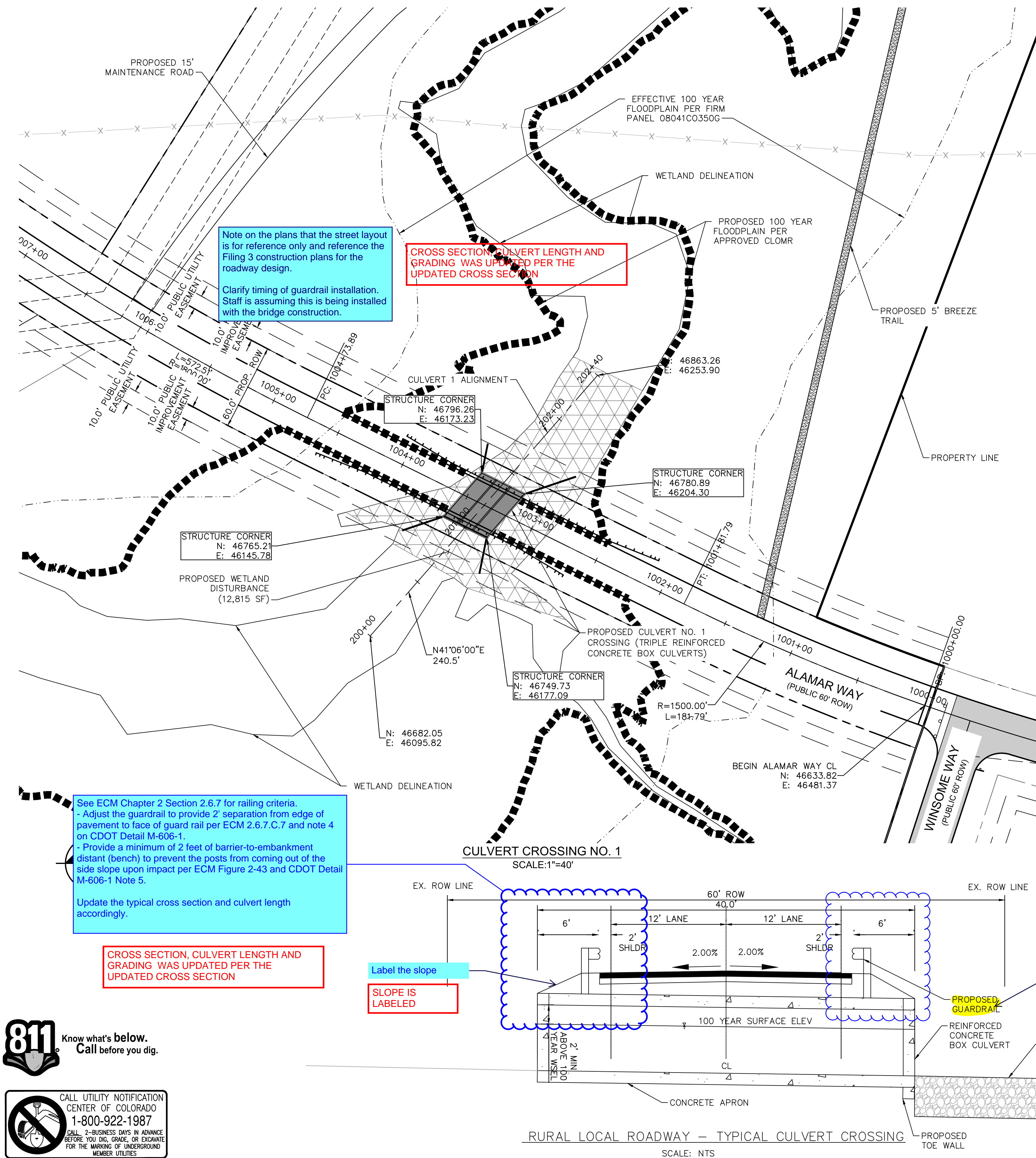


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FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES



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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

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PROJECT NO.
196106001

SHEET

2

NO. REVISION BY DATE APPR

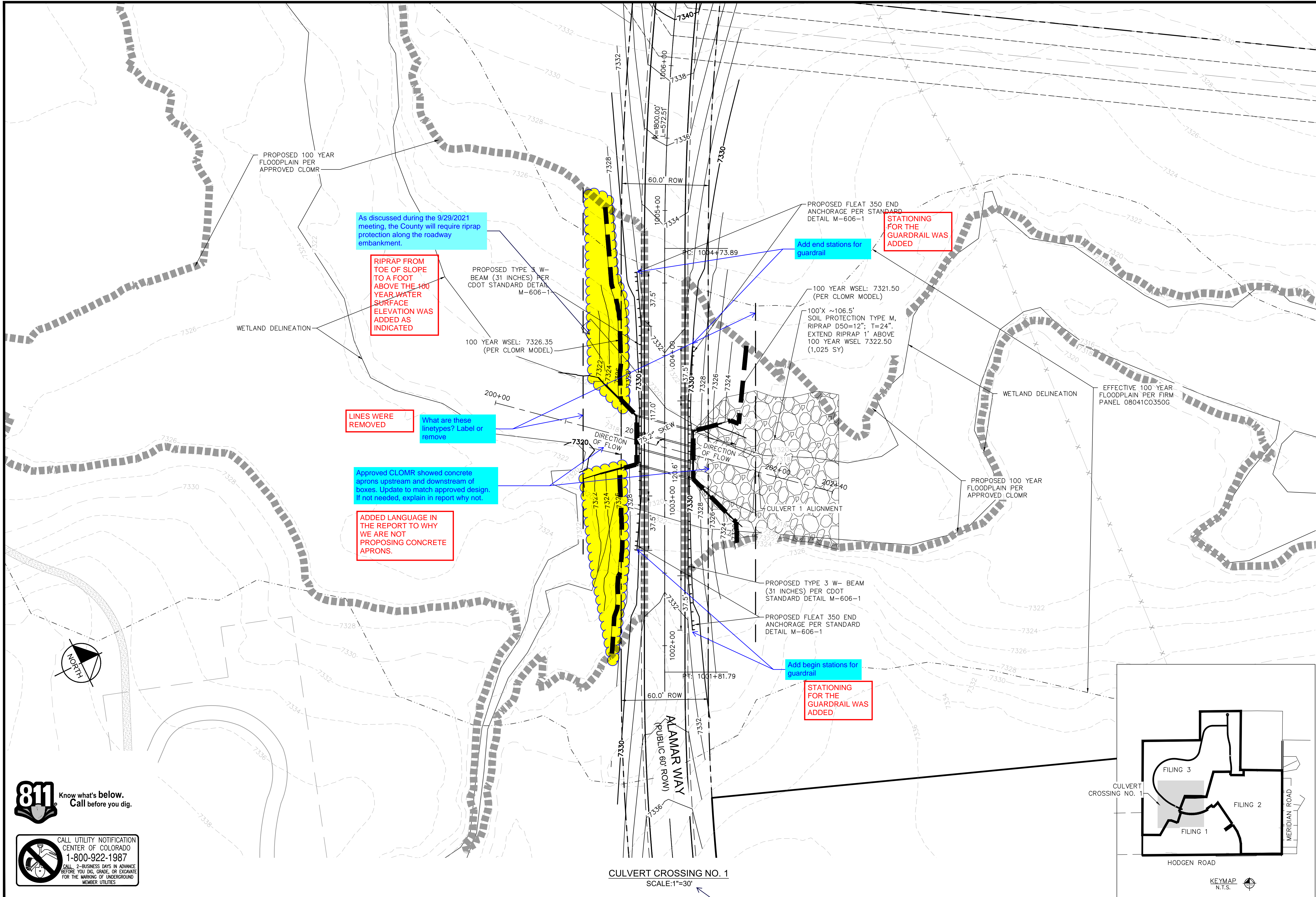
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CDOT DESIGN HAS THE VARIABLE K AT 4' WHICH IS THE HEIGHT OF THE WALL. THE REMAINING GRADE IS TO SPILL AROUND THE WALL IN A SPILL CONE PER THE DETAIL. REFERENCE THE DETAIL FOR THE HEIGHT.

based on the contour it appears the wingwall needs to be extended. Update all wingwall lengths.

Check that this label is pointing to the correct data/line

LABEL WAS ADJUSTED

Label ROW

ROW IS NOT LABELED

Label

Add sheet #

ADDED

WETLAND IS NOW LABELED

WETLAND IS NOW LABELED

Show the 100yr WSEL

Hydraulics report has outlet protection listed as Type L riprap. Update so plan and report match

RIPRAP WAS UPDATED TO TYPE L TO MATCH

THIS WAS UPDATED TO THE 0.5% SLOPE

Hydraulic report shows 0.50% slope. Revise report or plan to match

100 YR WSEL IS NOW SHOWN ON THE PROFILE

Show the 100yr WSEL on the profile.

update the note. Is the 7322.50 the WSEL.

Maybe "Extend riprap to 7322.50 to provide 1 foot of freeboard"

REFERENCE TO THE RIPRAP DETAIL WAS ADDED.

Add reference to riprap detail on detail sheet

LANGUAGE WAS UPDATED TO CLARIFY THAT THE RIPRAP WILL BE INSTALLED 1' ABOVE THE 100 WSEL

Label proposed and existing ground

PROPOSED AND EXISTING GRADE ARE NOW LABELED.

EXTRA LINE WAS REMOVED

Remove "extra" profile line

REVISED

Label grade break

Toe wall now shown along with outlet protection

Show and label outlet protection and toewall

Show the riprap

Riprap now shown on the plan

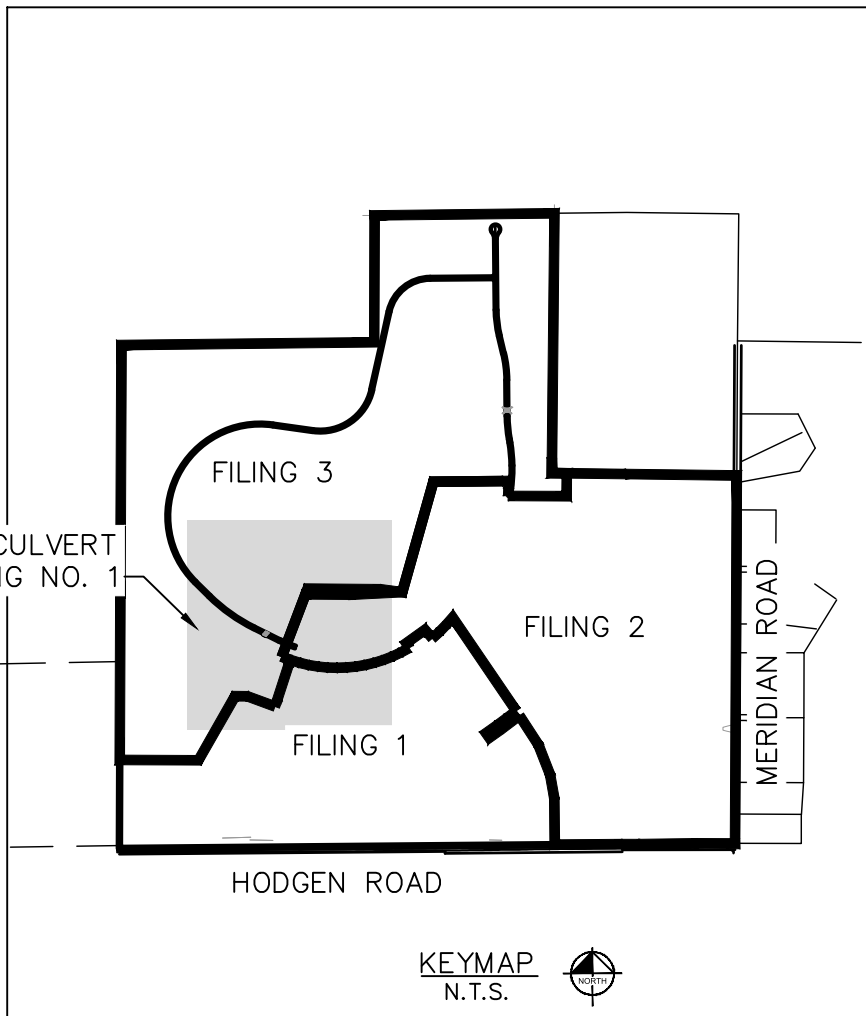
Label profile horizontal and vertical scale.

HORIZONTAL AND VERTICAL SCALE ARE NOT PROVIDED

Extend alignment past improvements

ALIGNMENT WAS EXTENDED BEYOND RIPRAP

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



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

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EL PASO COUNTY, COLORADO
CONSTRUCTION DOCUMENTS
CULVERT 1-PLAN & PROFILE

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PROJECT NO.
196106001
SHEET

5



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6



VERTICAL SCALE
NOW PROVIDED



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196106001

SHEET

7

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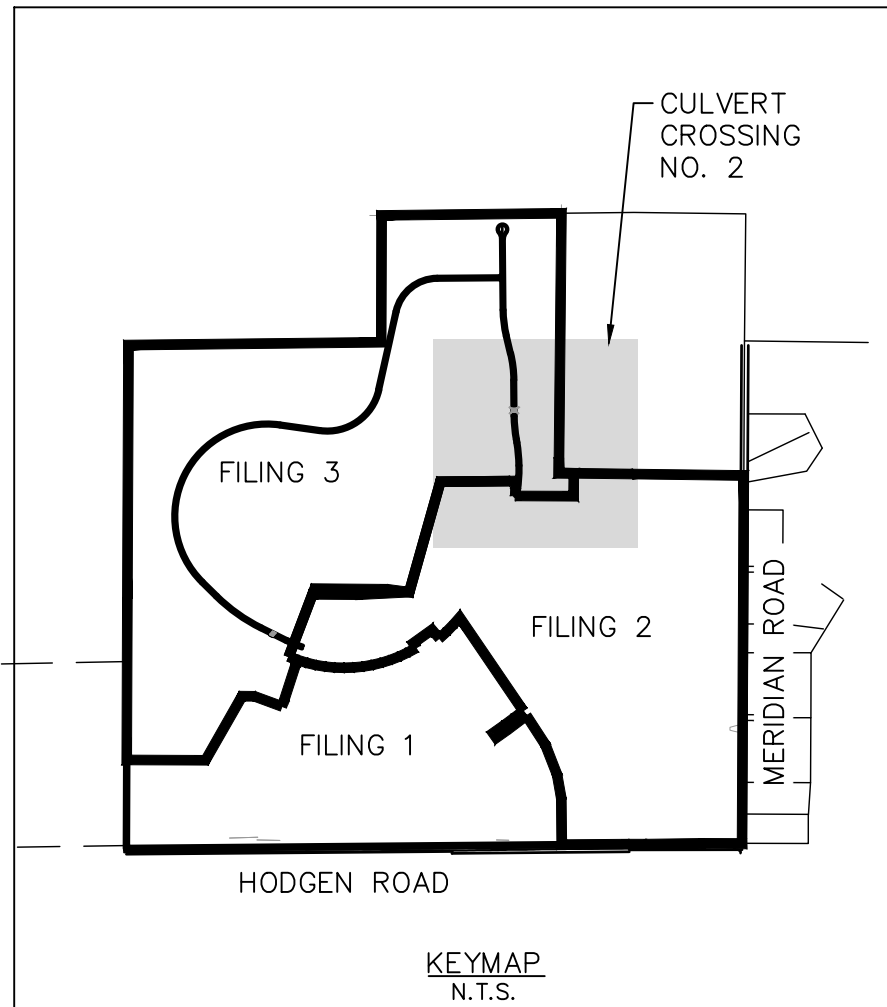
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CONSTRUCTION DOCUMENTS
ALAMAR WAY PROFILE



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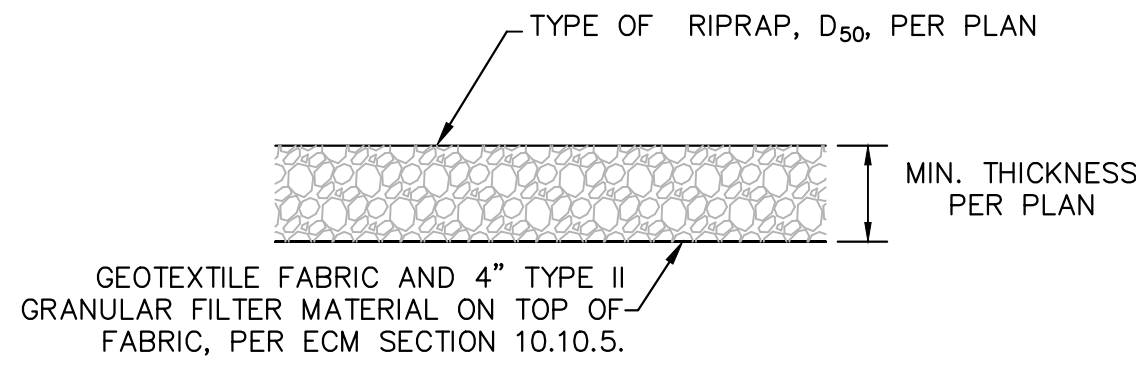
PROJECT NO. 196106001
SHEET 8

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DATE: 9/3/2021

[illegible]

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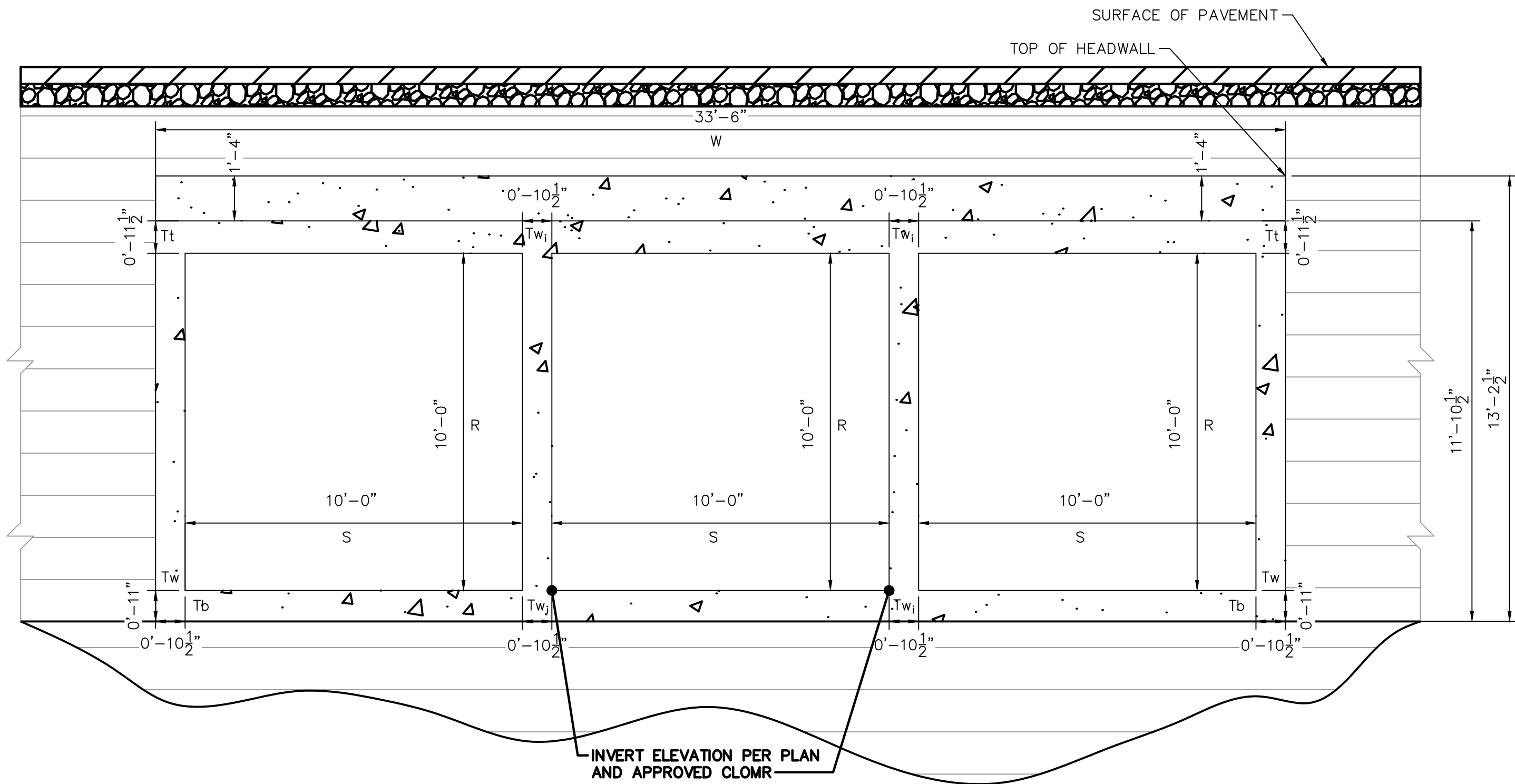
1. D50 = MEAN PARTICLE SIZE (INTERMEDIATE DIMENSION) BY WEIGHT.
2. RIP RAP SHALL BE PER PLAN AND SHALL BE MIXED WITH 30% SOIL TO 70% RIP RAP.
3. RIP RAP SECTION THICKNESS SHALL BE 2.0 TIMES THE SPECIFIED MEAN PARTICLE SIZE (I.E. D50 X 2.0 MINIMUM) PER ECM SECTION 10.10.3.
4. ALL RIP RAP SHALL BE UNDERLAIN 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

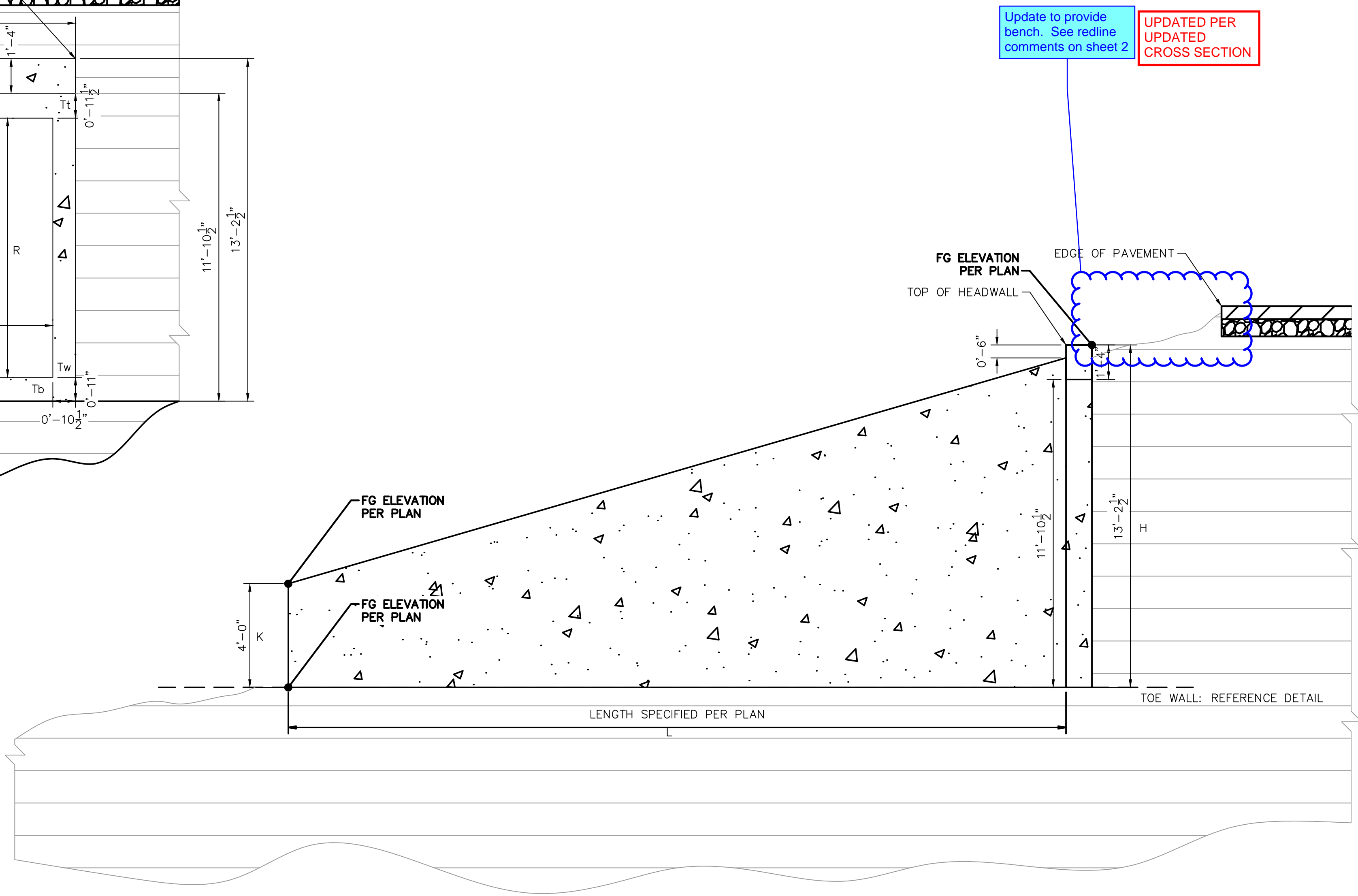
Table 9.5 Recommended wingwall flare angles (θ_a or θ_b)		
Skew Angle, θ°	θ_a°	θ_b°
90	60	60
80	50	70
70	45	80
60	40	90
50	30	90
40	20	100
30	15	105
< 30	Consult the Region Hydraulic Engineer	

NO SKEW-CULVERT 2

75° SKEW-CULVERT 1



TRIPLE CONCRETE BOX CULVERT SECTION DETAIL



WINGWALL (BOX CULVERT) SECTION DETAIL

Update to provide bench. See redline comments on sheet 2

UPDATED PER
UPDATED
CROSS SECTION

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2 North Nevada Avenue Suite 300
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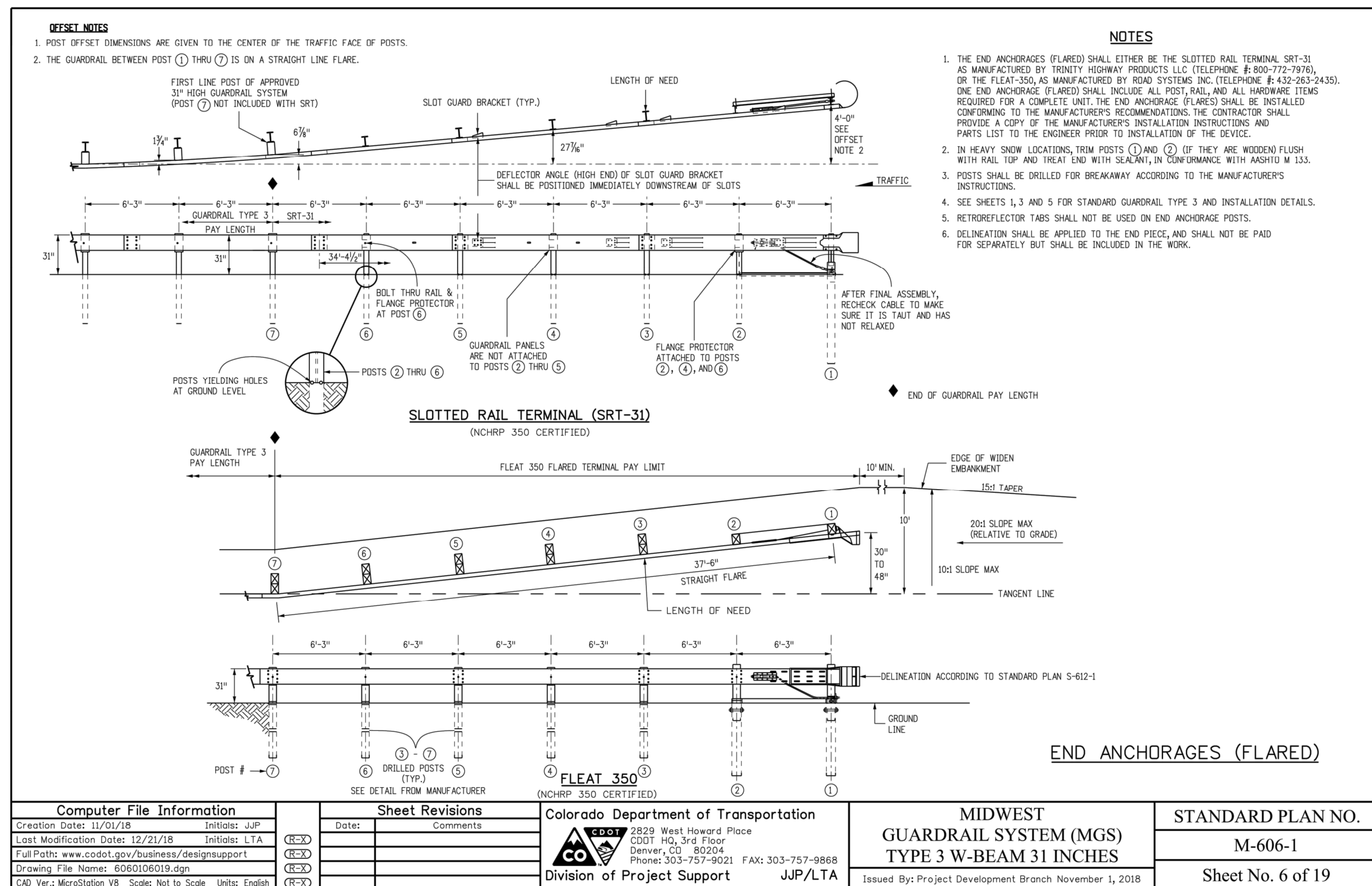
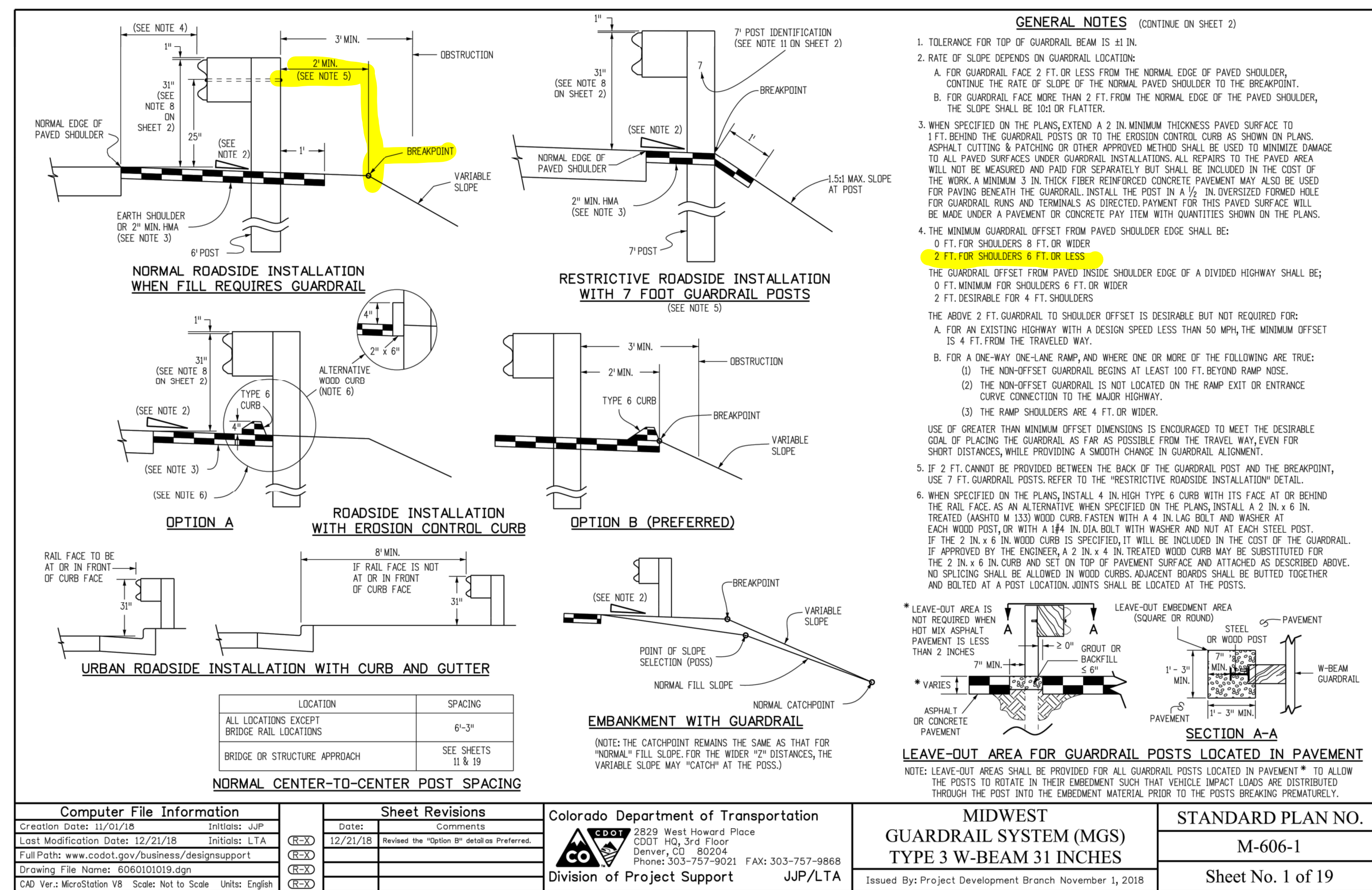
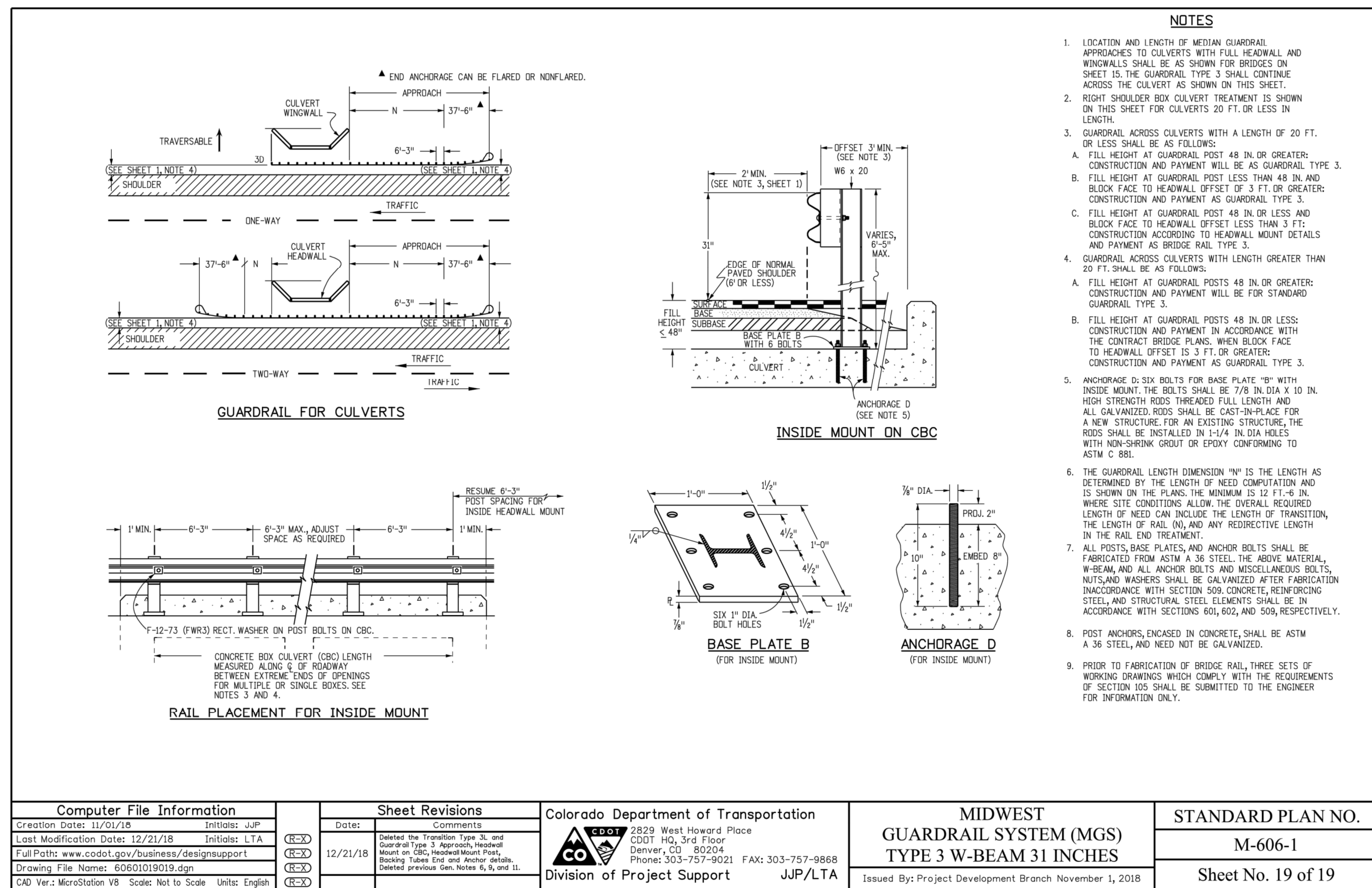
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PROJECT NO.
196106001

SHEET

10



Add all the applicable CDOT Detail M-606-1 sheets

ADDED MORE APPLICABLE GUARDRAIL DETAILS.

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SHEET

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


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

BY DATE APPR.
 NO. REVISION

Culvert CDs_v1 redlines.pdf Markup Summary


CDurham (33)

Engineer's Statement

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Author: CDurham
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Engineer's Statement

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County Engineer signature block


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1. Type L
to rip

Hydraulics report has outlet protection listed as Type L riprap. Update so plan and report match

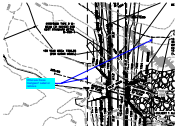
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Hydraulics report has outlet protection listed as Type L riprap. Update so plan and report match



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Approved CLOMR showed concrete aprons upstream and downstream of boxes. Update to match approved design. If not needed, explain in report why not.



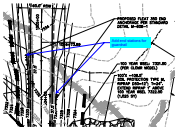
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Add begin stations for guardrail



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Add end stations for guardrail



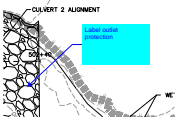
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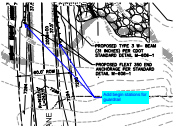
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Label outlet protection



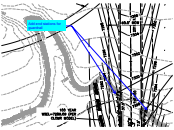
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Add begin stations for guardrail



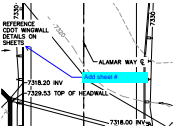
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Add slope arrows (typ)



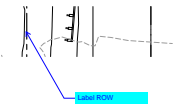
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Add end stations for guardrail



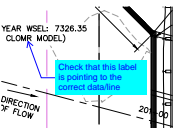
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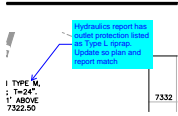
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Label ROW



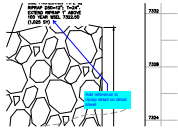
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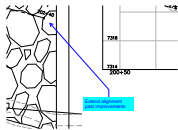
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Space:

Hydraulics report has outlet protection listed as Type L riprap. Update so plan and report match



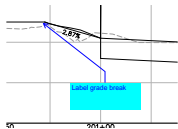
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:01:48 PM
Status:
Color: ■
Layer:
Space:

Add reference to riprap detail on detail sheet



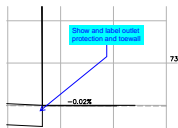
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:02:11 PM
Status:
Color: ■
Layer:
Space:

Extend alignment past improvements



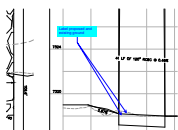
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:02:22 PM
Status:
Color: ■
Layer:
Space:

Label grade break



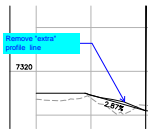
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:03:02 PM
Status:
Color: ■
Layer:
Space:

Show and label outlet protection and toewall



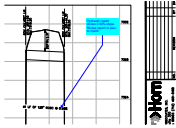
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:03:21 PM
Status:
Color: ■
Layer:
Space:

Label proposed and existing ground



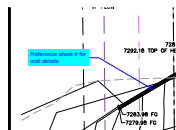
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:03:24 PM
Status:
Color: ■
Layer:
Space:

Remove "extra" profile line



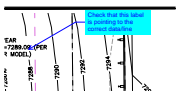
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:03:34 PM
Status:
Color: ■
Layer:
Space:

Hydraulic report shows 0.50% slope. Revise report or plan to match



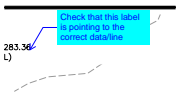
Subject: Callout
Page Label: 6
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:04:11 PM
Status:
Color: ■
Layer:
Space:

Reference sheet # for wall details



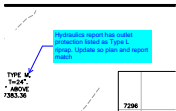
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Page Label: 6
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:04:22 PM
Status:
Color: ■
Layer:
Space:

Check that this label is pointing to the correct data/line



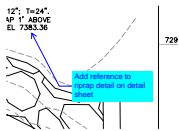
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Page Label: 6
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:09:06 PM
Status:
Color: ■
Layer:
Space:

Check that this label is pointing to the correct data/line



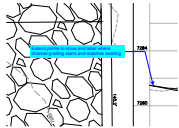
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Page Label: 6
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:09:18 PM
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Color: ■
Layer:
Space:

Hydraulics report has outlet protection listed as Type L riprap. Update so plan and report match



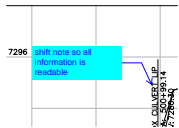
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Page Label: 6
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:09:43 PM
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Layer:
Space:

Add reference to riprap detail on detail sheet



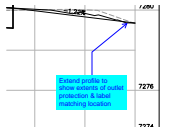
Subject: Callout
Page Label: 6
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:10:08 PM
Status:
Color: ■
Layer:
Space:

Extend profile to show and label where channel grading starts and matches existing



Subject: Callout
Page Label: 6
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:10:36 PM
Status:
Color: ■
Layer:
Space:

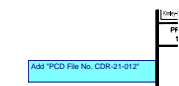
shift note so all information is readable



Subject: Callout
Page Label: 6
Lock: Unlocked
Author: CDurham
Date: 10/25/2021 12:10:49 PM
Status:
Color: ■
Layer:
Space:

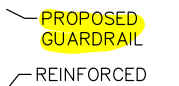
Extend profile to show extents of outlet protection & label matching location

dsdlaforce (44)

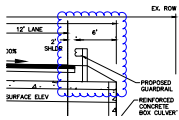


Subject: Text Box
Page Label: 1
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 2:19:48 PM
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Color: ■
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Space:

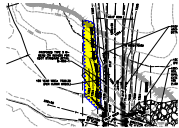
Add "PCD File No. CDR-21-012"



Subject: Highlight
Page Label: 2
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 2:41:03 PM
Status:
Color: ■
Layer:
Space:



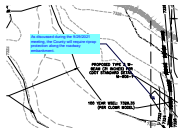
Subject: Cloud
Page Label: 2
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 2:53:00 PM
Status:
Color: ■
Layer:
Space:



Subject: Cloud
Page Label: 3
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:16:00 PM
Status:
Color: ■
Layer:
Space:



Subject: Cloud
Page Label: 3
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:16:51 PM
Status:
Color: ■
Layer:
Space:



Subject: Callout
Page Label: 3
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:22:20 PM
Status:
Color: ■
Layer:
Space:

As discussed during the 9/29/2021 meeting, the County will require riprap protection along the roadway embankment.



Subject: Polygon
Page Label: 4
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:23:45 PM
Status:
Color: ■
Layer:
Space:



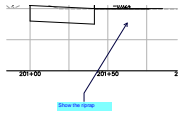
Subject: Polygon
Page Label: 4
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:24:31 PM
Status:
Color: ■
Layer:
Space:



Subject: Callout
Page Label: 5
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:49:13 PM
Status:
Color: ■
Layer:
Space:

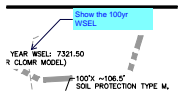
update the note. Is the 7322.50 the WSEL.

Maybe "Extend riprap to 7322.50 to provide 1 foot of freeboard"



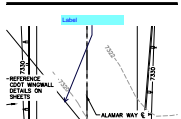
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:53:01 PM
Status:
Color: ■
Layer:
Space:

Show the riprap



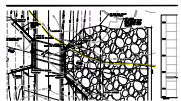
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:54:14 PM
Status:
Color: ■
Layer:
Space:

Show the 100yr WSEL

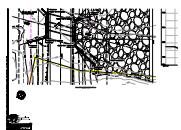


Subject: Callout
Page Label: 5
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Author: dsdlaforce
Date: 10/22/2021 3:54:27 PM
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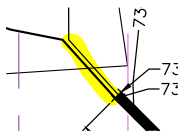
Label




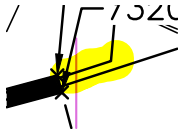
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Author: dsdlaforce
Date: 10/22/2021 3:54:58 PM
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Color: ■
Layer:
Space:




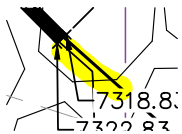
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Date: 10/22/2021 3:55:09 PM
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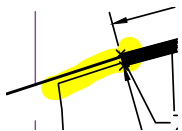
Subject: Highlight
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Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:56:05 PM
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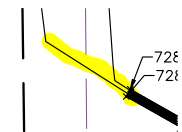
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Page Label: 5
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:56:38 PM
Status:
Color: 
Layer:
Space:




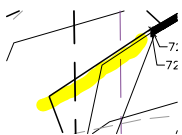
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Author: dsdlaforce
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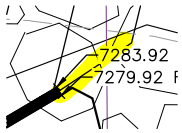
Subject: Highlight
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Status:
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Layer:
Space:




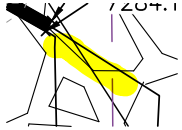
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Page Label: 6
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Date: 10/22/2021 3:59:12 PM
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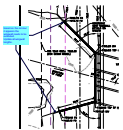
Subject: Highlight
Page Label: 6
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Author: dsdlaforce
Date: 10/22/2021 3:59:20 PM
Status:
Color: 
Layer:
Space:




Subject: Highlight
Page Label: 6
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:59:39 PM
Status:
Color: 
Layer:
Space:

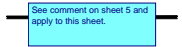


Subject: Highlight
Page Label: 6
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:59:42 PM
Status:
Color: 
Layer:
Space:



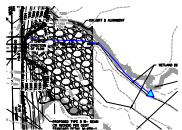
Subject: Callout
Page Label: 5
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 3:59:45 PM
Status:
Color: 
Layer:
Space:


based on the contour it appears the wingwall
needs to be extended.
Update all wingwall lengths.




Subject: Text Box
Page Label: 6
Lock: Unlocked
Author: dsdlaforce
Date: 10/22/2021 4:00:51 PM
Status:
Color: 
Layer:
Space:

See comment on sheet 5 and apply to this sheet.



Subject: PolyLine
Page Label: 4
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 1:03:21 PM
Status:
Color: 
Layer:
Space:



Subject: Image
Page Label: 4
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 1:03:46 PM
Status:
Color: 
Layer:
Space:



Subject: Callout
Page Label: 4
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 1:11:03 PM
Status:
Color: ■
Layer:
Space:

It seems erosion protection is required at the bend.
See HEC-15 for stability in bends. Provide supporting calculation to determine whether or not this is required.

Additionally see the Drainage Criteria Manual Chapter 10 section 10.5.6 regarding superelevation along the sharp bend. Additional height on the embankment protection may be required.

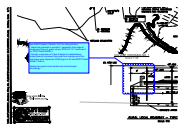
Include both analysis in the hydraulic report.



Subject: Callout
Page Label: 4
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 1:35:01 PM
Status:
Color: ■
Layer:
Space:

As discussed during the 9/29/2021 meeting, the County will require riprap protection along the roadway embankment.

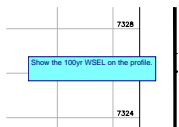
See HEC-18 Chapter 6 regarding Contraction Scour



Subject: Cloud+
Page Label: 2
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:13:07 AM
Status:
Color: ■
Layer:
Space:

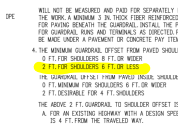
See ECM Chapter 2 Section 2.6.7 for railing criteria.
- Adjust the guardrail to provide 2' separation from edge of pavement to face of guard rail per ECM 2.6.7.C.7 and note 4 on CDOT Detail M-606-1.
- Provide a minimum of 2 feet of barrier-to-embankment distant (bench) to prevent the posts from coming out of the side slope upon impact per ECM Figure 2-43 and CDOT Detail M-606-1 Note 5.

Update the typical cross section and culvert length accordingly.

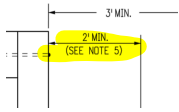


Subject: Text Box
Page Label: 5
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:27:42 AM
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Layer:
Space:

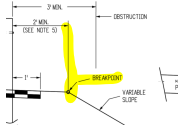
Show the 100yr WSEL on the profile.



Subject: Highlight
Page Label: 11
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:35:10 AM
Status:
Color: ■
Layer:
Space:



Subject: Highlight
Page Label: 11
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:35:20 AM
Status:
Color:
Layer:
Space:

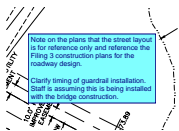


Subject: Highlight
Page Label: 11
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:35:23 AM
Status:
Color:
Layer:
Space:



Subject: Text Box
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Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:35:54 AM
Status:
Color:
Layer:
Space:

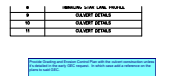
Add all the applicable CDOT Detail M-606-1 sheets



Subject: Text Box
Page Label: 2
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:43:50 AM
Status:
Color:
Layer:
Space:

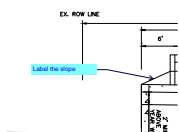
Note on the plans that the street layout is for reference only and reference the Filing 3 construction plans for the roadway design.

Clarify timing of guardrail installation. Staff is assuming this is being installed with the bridge construction.



Subject: Text Box
Page Label: 1
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:56:07 AM
Status:
Color:
Layer:
Space:

Provide Grading and Erosion Control Plan with the culvert construction unless it's detailed in the early GEC request. In which case add a reference on the plans to said GEC.



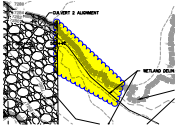
Subject: Callout
Page Label: 2
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 10:57:42 AM
Status:
Color:
Layer:
Space:

Label the slope

Add Developer's Signature Block

Subject: Text Box
Page Label: 1
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 12:47:28 PM
Status:
Color: ■
Layer:
Space:

Add Developer's Signature Block

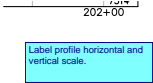


Subject: Cloud
Page Label: 4
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 12:59:05 PM
Status:
Color: ■
Layer:
Space:



Subject: Callout
Page Label: 3
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 2:27:31 PM
Status:
Color: ■
Layer:
Space:

Add bar scale. Typical for all plan sheets



Subject: Text Box
Page Label: 5
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 2:28:34 PM
Status:
Color: ■
Layer:
Space:

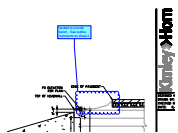
Label profile horizontal and vertical scale.

ERT CROSSING NO. 1- PROFIL
SCALE: 1"=80'

Label vertical scale

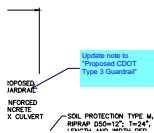
Subject: Text Box
Page Label: 7
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 2:29:09 PM
Status:
Color: ■
Layer:
Space:

Label vertical scale



Subject: Cloud+
Page Label: 10
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 8:58:13 AM
Status:
Color: ■
Layer:
Space:

Update to provide bench. See redline comments on sheet 2



Subject: Callout
Page Label: 2
Lock: Unlocked
Author: dsdlaforce
Date: 10/25/2021 9:10:47 AM
Status:
Color:
Layer:
Space:

Update note to "Proposed CDOT Type 3 Guardrail"