APPENDIX B

RGM Plan Sheets

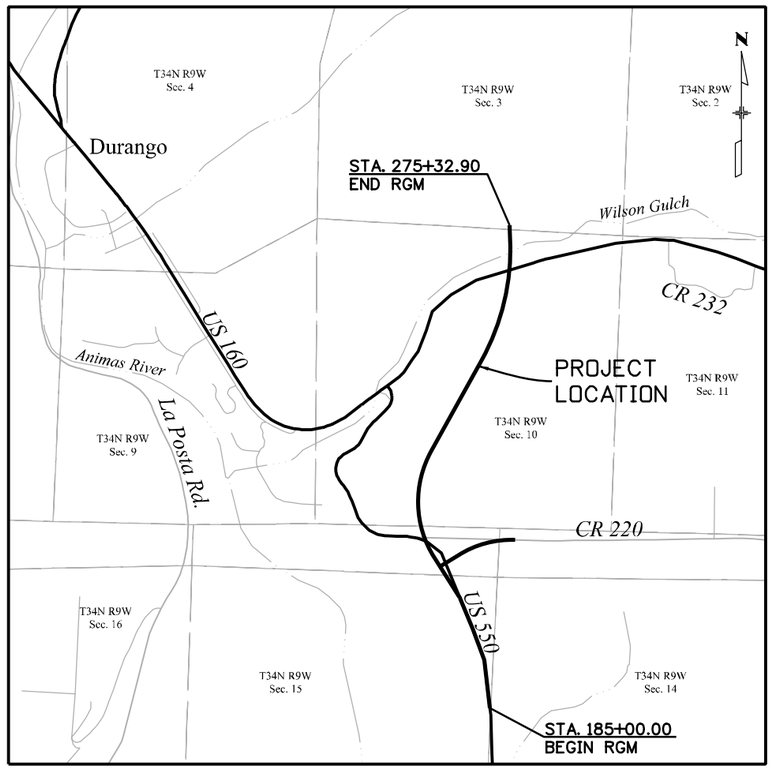
Oversight / NHS	
FHWA REGION VIII OVERSIGHT?	□ NO ■ YES
NATIONAL HIGHWAY SYSTEM?	□ NO ■ YES

DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO

US 550 TO US 160 SEIS ALTERNATIVE ANALYSIS
RGM CONCEPTUAL PLANS
STATE HIGHWAY NO. 550
LAPLATA COUNTY
CONSTRUCTION PROJECT CODE NO. 19378

Related Projects:
P. E. UNDER PROJECT:
Project Number XXXXXXXXX
Project Code: 19378

R.O.W. Projects:
R.O.W. Project Description
XXXXXXXXXXXXXX



PROJECT LOCATION MAP

0' ¼ Mi. ½ Mi. 1 Mi.

INDEX OF SHEETS

1	TITLE SHEET
2 - 5	TYPICAL SECTIONS
6 - 7	GEOMETRY PLAN
8 - 11	US 550 ROADWAY PLANS
12	CR 220 ROADWAY PLAN
13 - 16	US 550 ROADWAY PROFILES
17	CR 220 ROADWAY PROFILE
18	US 160 BRIDGE AT WILSON GULCH HYDRAULICS PLAN
19 - 24	US 550 RGM DRAINAGE PLANS
25 - 27	US 550 OVER GULCH A BRIDGE PLANS
28 - 29	US 550 OVER US 160 BRIDGE PLANS
30	US 550 OVER CATTLE CROSSING BRIDGE PLANS
31 - 32	US 160 OVER WILSON GULCH BRIDGE PLANS
33 - 49	CROSS SECTIONS

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

Print Date: 5/15/2014
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Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

amec MULLER

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
3803 North Main Avenue
Suite 200
Durango, CO 81301
Phone: 970-385-1440 FAX: 970-385-8365
Region 5

As Constructed	
No Revisions:	
Revised:	
Void:	

Contract Information	
Contractor:	
Resident Engineer:	
Project Engineer:	
PROJECT STARTED: / /	ACCEPTED: / /
Comments:	

Project No./Code	
-	
19378	
Sheet Number	1

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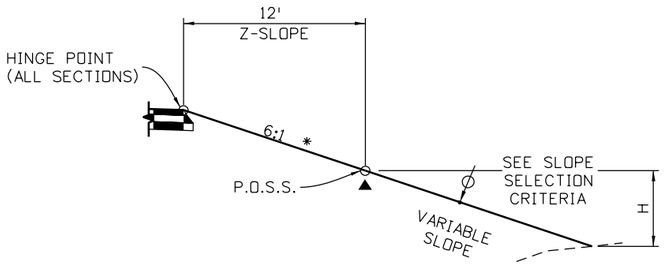
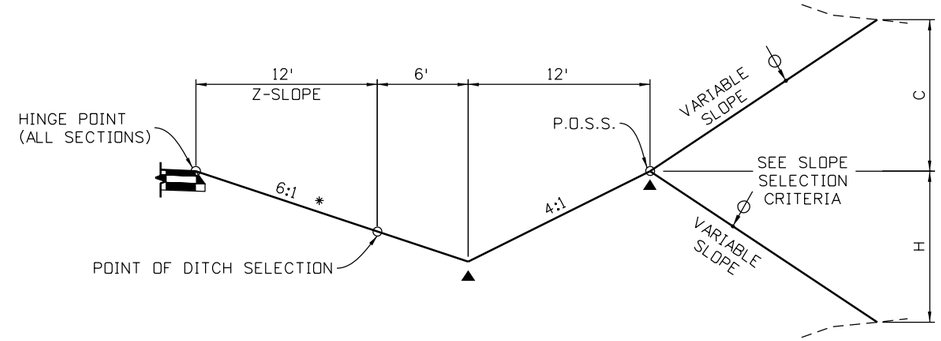


FILL/CUT SLOPE DETAIL
(SEE CROSS SECTIONS FOR FILL/CUT SLOPE DITCH TYPE)

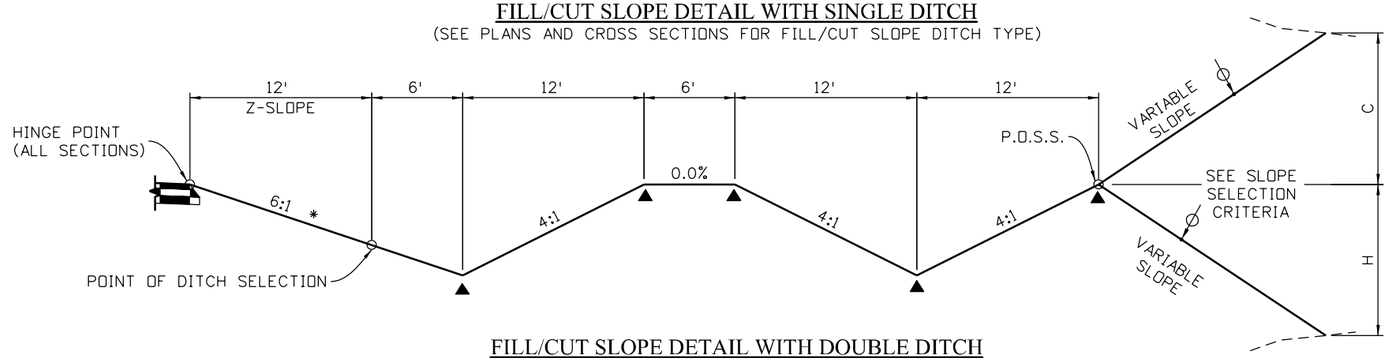
SLOPE SELECTION
(TYPICAL FOR ALL US 550)

HEIGHT OF CUT	SLOPE
C = 0 - 20'	3:1
C > 20'	SEE CUT WALL TYPICAL

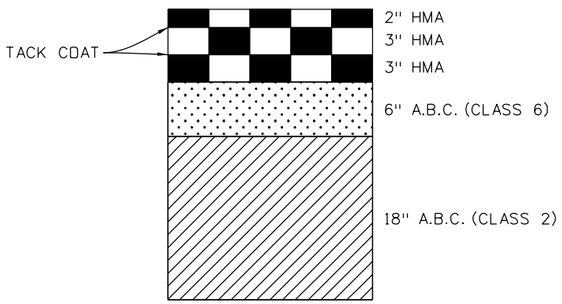
HEIGHT OF FILL	SLOPE
H = 0 - 2'	Z-SLOPE THEN, 6:1
2' - 14.5'	Z-SLOPE THEN, 4:1
14.5' - 20'	Z-SLOPE THEN, 3:1
20' > H	SEE FILL WALL TYPICAL



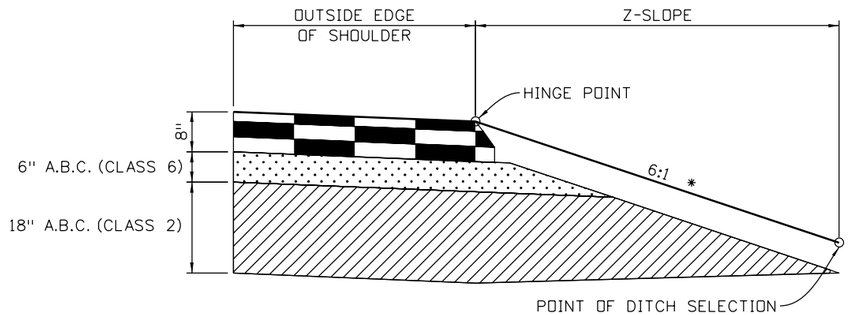
FILL/CUT SLOPE DETAIL WITH SINGLE DITCH
(SEE PLANS AND CROSS SECTIONS FOR FILL/CUT SLOPE DITCH TYPE)



FILL/CUT SLOPE DETAIL WITH DOUBLE DITCH
(SEE PLANS AND CROSS SECTIONS FOR FILL/CUT SLOPE DITCH TYPE)



8" HOT MIX ASPHALT
FULL DEPTH PAVEMENT DETAILS
(TYPICAL FOR US 550)



SAFETY EDGE DETAIL
(TYPICAL FOR ALL SECTIONS)

TYPICAL SECTION NOTES

1. ○ P.G.L. -PROFILE GRADE LINE
2. H.M.A. -HOT MIX ASPHALT
3. ○ P.O.S.S. -POINT OF SLOPE SELECTION
4. H.P. -HINGE POINT
5. ϕ THE CONTRACTOR WILL BE REQUIRED TO PLACE 6 INCHES OF TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATION.
6. ▲ BREAKPOINTS IN SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
7. ■ APPROXIMATE THICKNESS (MINIMUM)
8. ◺ ROADWAY CROSS SLOPE. FOR SPECIFIC CROSS SLOPES AND SUPERELEVATION LIMITS SEE PROFILE SHEETS.
9. * THE CONTRACTOR SHALL PLACE ABC (SPECIAL) TO THIS LINE AFTER COMPLETION OF PAVING OPERATIONS.

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US 550 RGM
TYPICAL SECTIONS

Designer: ACC
Detailer: MAW
Sheet Subset: ROADWAY
Structure Numbers:
Subset Sheets: 1 of 4

Project No./Code: -
19378
Sheet Number 2

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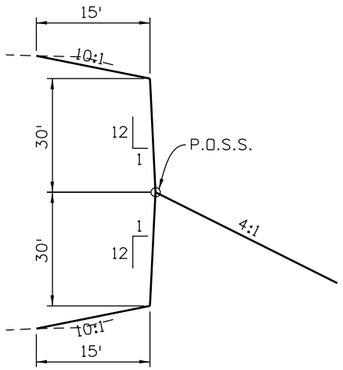
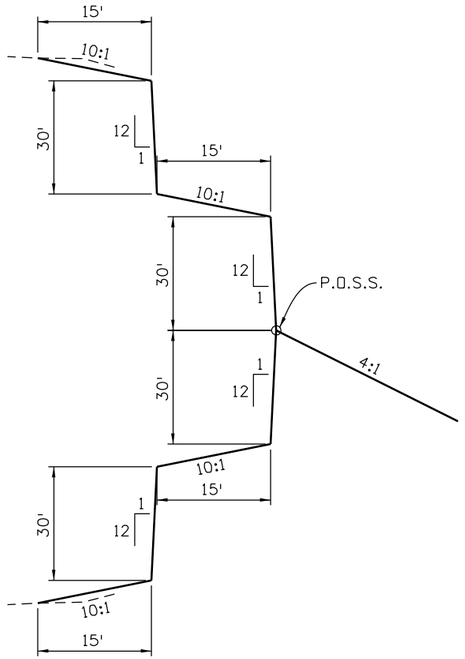
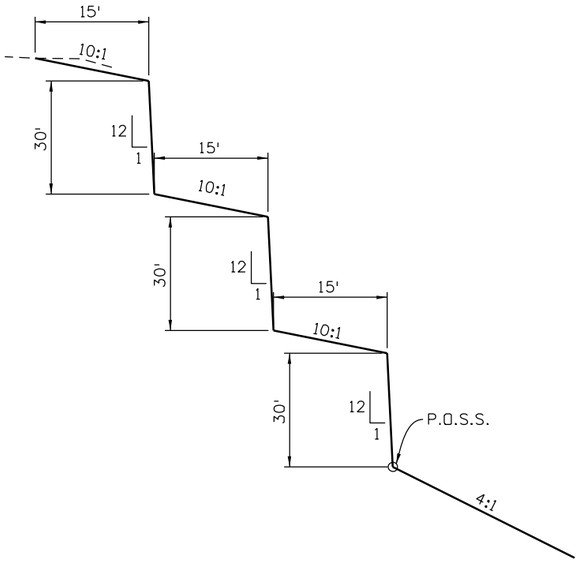
NOTE: SEE PLANS AND CROSS SECTIONS FOR FILL/CUT WALL TYPE



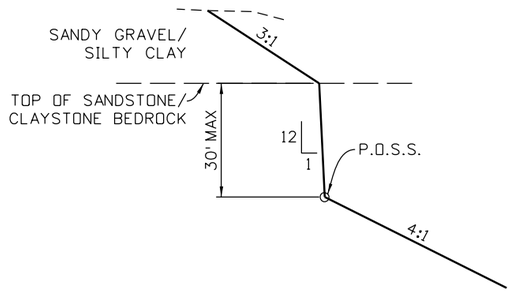
FILL/CUT SLOPE SINGLE TIER WALL DETAIL



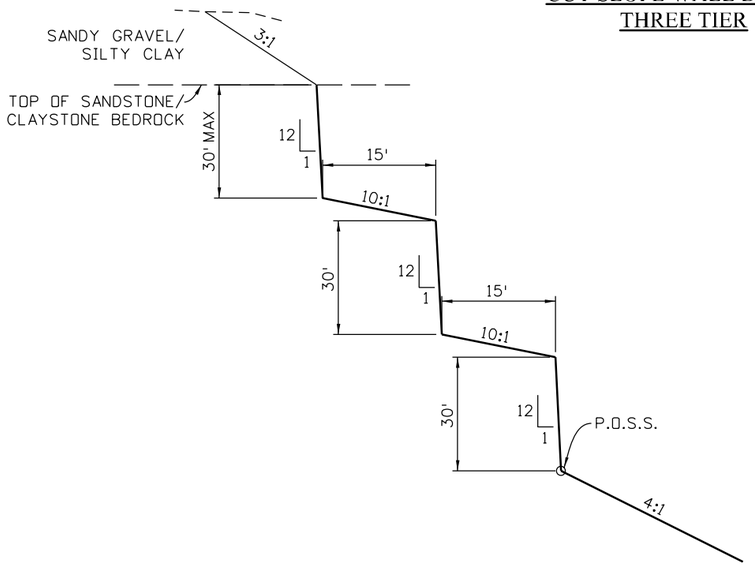
FILL/CUT SLOPE WALL DETAIL
TWO TIER



CUT SLOPE WALL DETAIL
THREE TIER



CUT SLOPE WALL DETAIL
SANDSTONE / CLAYSTONE BEDROCK



CUT SLOPE WALL DETAIL TWO TIER
SANDSTONE / CLAYSTONE BEDROCK

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Unit Information Unit Leader Initials		Region 5	Void:
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US 550 RGM TYPICAL SECTIONS			Project No./Code
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Detailer: MAW			19378
Sheet Subset: ROADWAY	Subset Sheets: 2 of 4		Sheet Number 3

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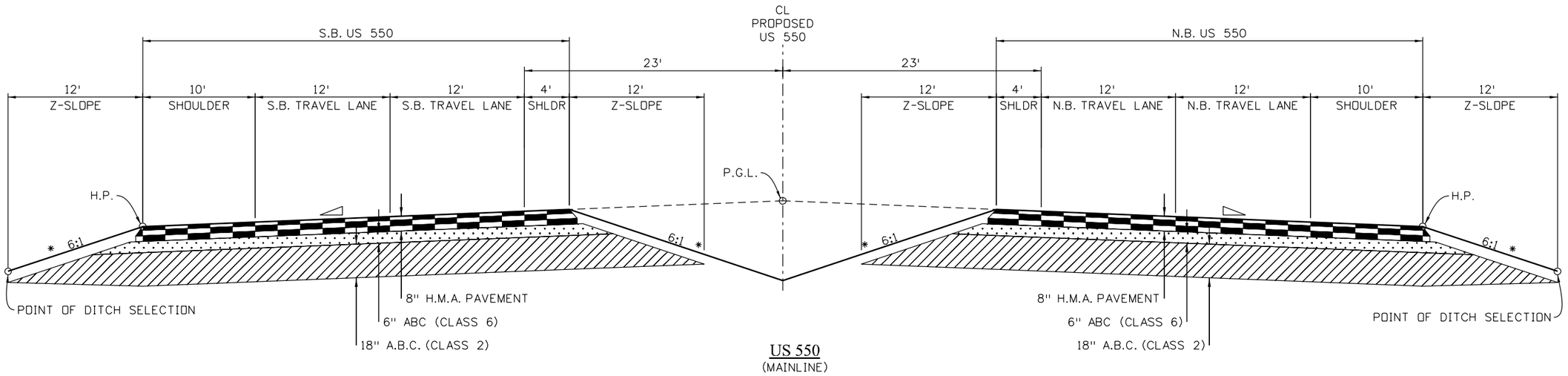
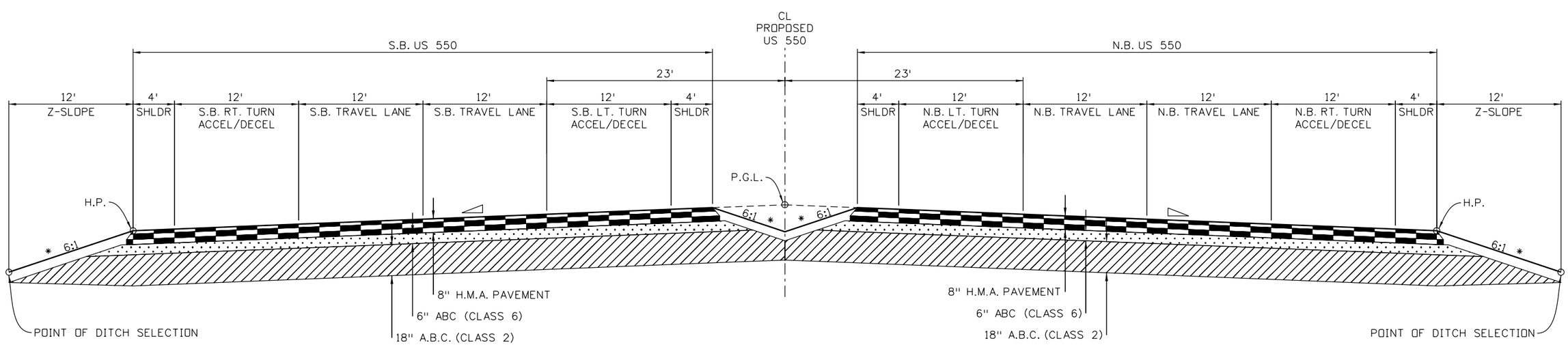


US 550
(MAINLINE)



US 550
(WITH INSIDE AND OUTSIDE ACCEL/DECEL LANES)

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Unit Information	Unit Leader Initials

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Void:	

US 550 RGM
TYPICAL SECTIONS

Designer:	ACC	Structure Numbers	
Detailer:	MAW		
Sheet Subset:	ROADWAY	Subset Sheets:	3 of 4

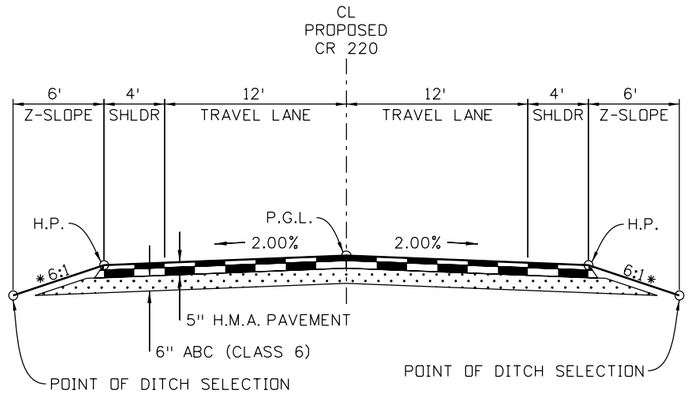
Project No./Code
-
19378
Sheet Number 4

SLOPE SELECTION

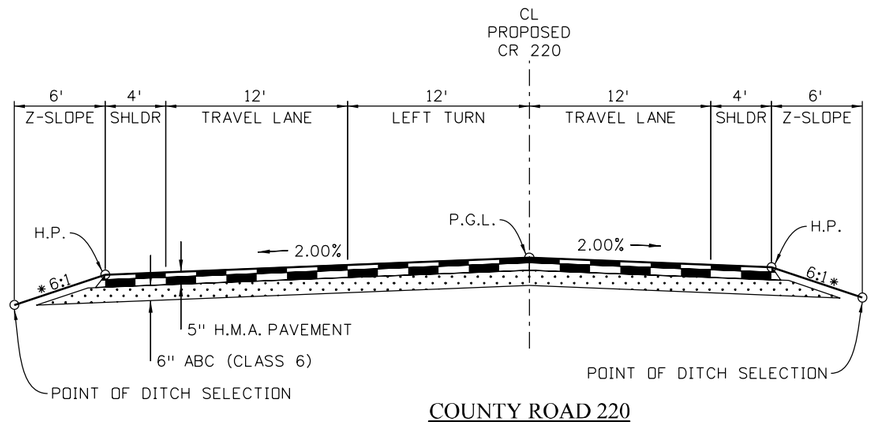
(TYPICAL FOR CR 220 & FRONTAGE ROAD)

HEIGHT OF CUT	SLOPE
C = 0 - 2'	6:1
2' - 14.5'	4:1
C > 14.5'	3:1

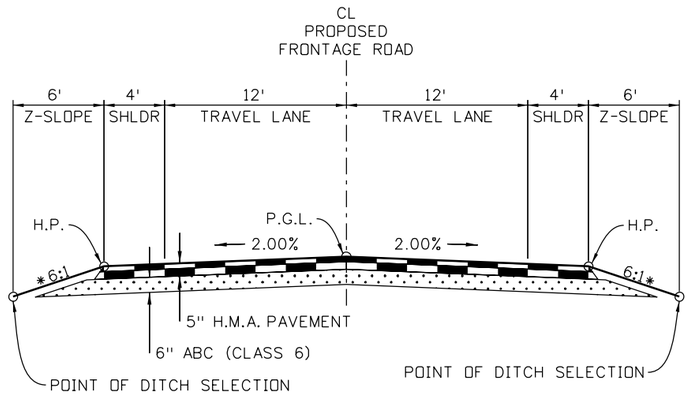
HEIGHT OF FILL	SLOPE
H = 0 - 2'	6:1
2' - 14.5'	4:1
H > 14.5'	3:1



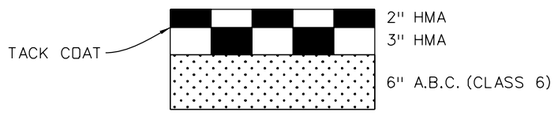
COUNTY ROAD 220



COUNTY ROAD 220



FRONTAGE ROAD



5" HOT MIX ASPHALT
FULL DEPTH PAVEMENT DETAILS
(TYPICAL FOR CR 220 & FRONTAGE ROAD)

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US 550 RGM
TYPICAL SECTIONS

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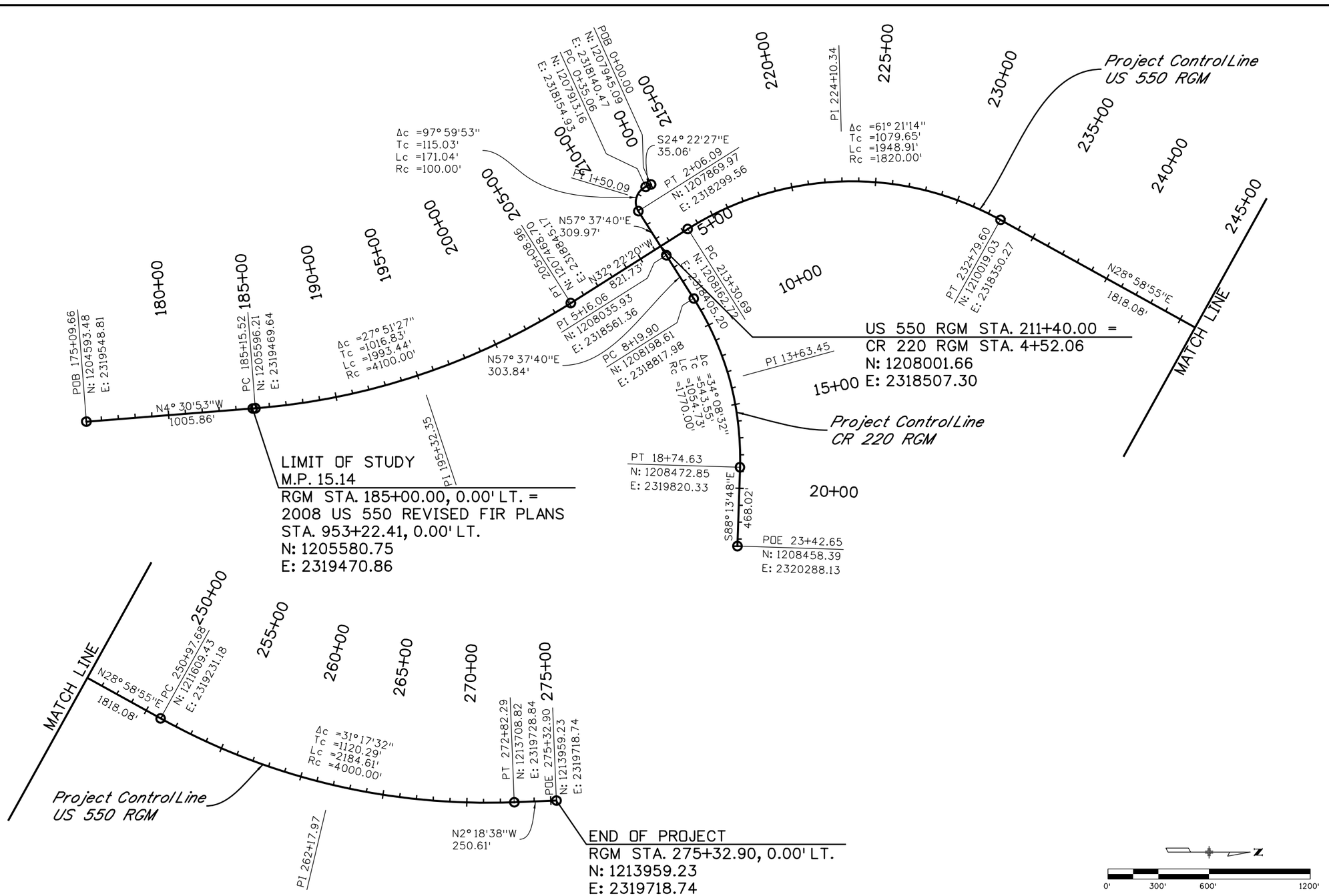

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Sheet Revisions

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Revised:	
Void:	

GEOMETRY PLAN

Designer:	ACC	Structure Numbers	
Detailer:	MAW		
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Project No./Code	-
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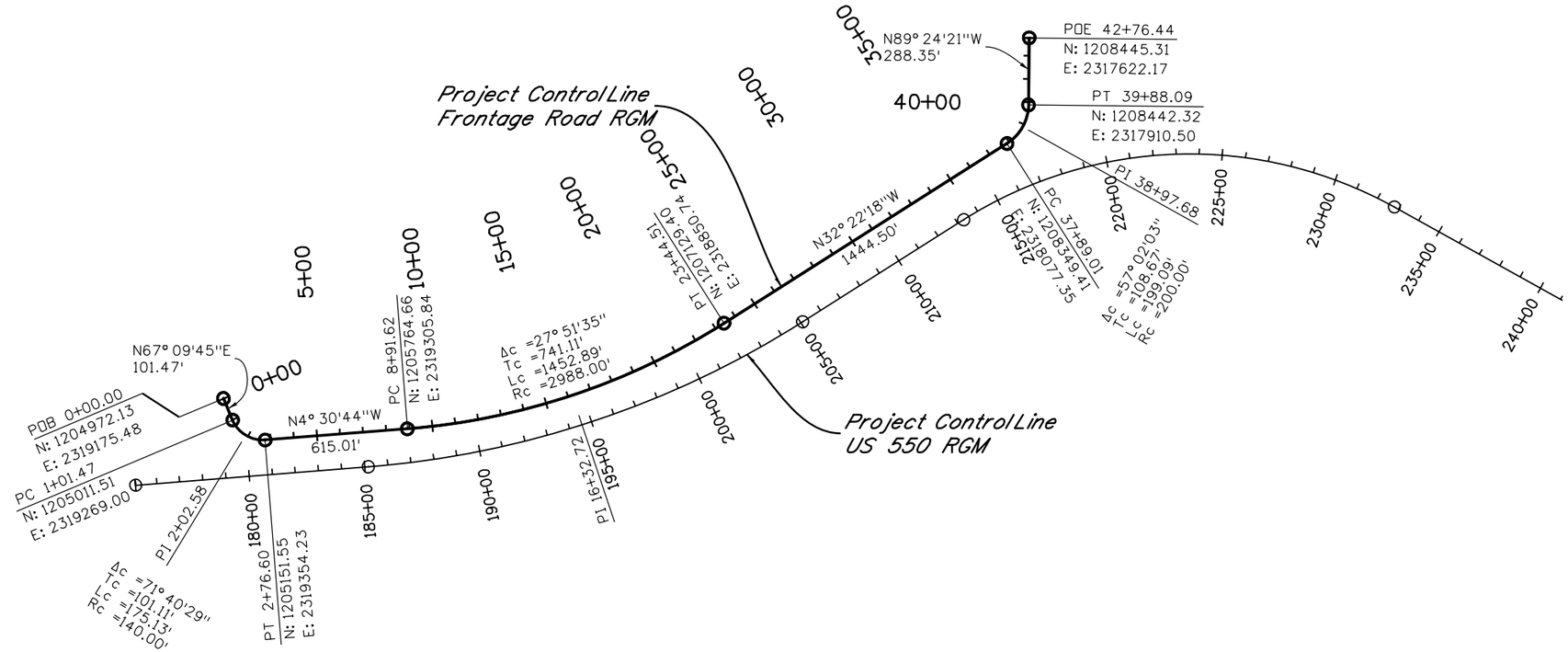
Sheet Number	6



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Unit Information Unit Leader Initials						Void:	Detailer: MAW	Sheet Number 7
amec MULLER							Sheet Subset: ROADWAY / Subset Sheets: 2 of 2	

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LIMIT OF STUDY
M.P. 15.14
RGM STA. 185+00.00, 0.00' LT. =
2008 US 550 REVISED FIR PLANS
STA. 953+22.41, 0.00' LT.
N: 1205580.75
E: 2319470.86

BEGIN PROJECT
FRONTAGE ROAD STA. 6+95.29 =
US 550 STA. 185+00.00, 150.03' LT.
N: 1205568.94
E: 2319321.29

Project Control Line
US 550 RGM

Project Control Line
Frontage Road RGM

Richard &
Carol Cohen

Archaeological Site (Typ.)

PROPOSED TEMPORARY
CONSTRUCTION EASEMENT

PROPOSED
RIGHT OF WAY

LIMIT OF
CUT (TYP.)

Existing
30' Easement

Existing
Tree (Typ.)

Existing
Wetlands (Typ.)

Existing
Right of Way

Historic District
Boundary (Typ.)

US 550

Existing
Easement

Existing Edge
of Asphalt

Frontage Road

LIMIT OF FILL (TYP.)

PROPOSED RIGHT OF WAY

DS = 70 MPH
R = 4100'
e = 4.8%

Existing Right of Way

Existing Landscape (Typ.)

Existing Wire Fence (Typ.)

Craig Limousin Ranch

MATCHLINE STA. 204+00.00

0+00 5+00 10+00 15+00 180+00 185+00 190+00 195+00 200+00 20+00 25+00

0' 100' 200' 400'

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

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Unit Information Unit Leader Initials					
amec MULLER					

As Constructed	US 550 RGM PLAN SHEET STA. 185+00 TO STA. 204+00			Project No./Code
No Revisions:				-
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Void:	Detailer: MAW			
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END PROJECT
FRONTAGE ROAD RGM STA. 42+76.44
N: 1208445.31
E: 2317622.17

Roger & Susan Hillmeyer

Eagle Block Co.

Existing Right of Way

Existing Edge of Asphalt

Project ControlLine Frontage Road RGM

Existing Wetlands (Typ.)

Marie J. Webb Ranch, LLC

600 FT DECELERATION
200 FT STORAGE

600 FT DECELERATION

Richard & Carol Cohen

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

Existing 30' Easement

Existing Landscape (Typ.)

Archaeological Site (Typ.)

Existing Right of Way

Project ControlLine US 550 RGM

WILDLIFE UNDERPASS/ FARM ACCESS

PROPOSED RIGHT OF WAY

960 FT ACCELERATION

PROPOSED RIGHT OF WAY

LIMIT OF FILL (TYP.)

Proposed US-550

Frontage Road

960 FT ACCELERATION

PROPOSED RIGHT OF WAY

Existing Tree (Typ.)

DS = 70 MPH
R = 1820'
e = 8%

LIMIT OF CUT (TYP.)

MATCHLINE STA. 204+00.00

600 FT DECELERATION

600 FT DECELERATION
50 FT STORAGE

PROPOSED RIGHT OF WAY

US 550 RGM STA. 211+40.00 =
CR 220 RGM STA. 4+52.06
N: 1208001.66
E: 2318507.30

Existing Wire Fence (Typ.)

MATCHLINE STA. 233+00.00

Craig Limousin Ranch

Project ControlLine CR 220 RGM

CR 220

Existing Edge of Water (Typ.)

Marie J. Webb Ranch, LLC

Historic District Boundary (Typ.)

0' 100' 200' 400'

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Void:	

US 550 RGM PLAN SHEET
STA. 204+00 TO STA. 233+00

Designer:	KSF	Structure Numbers	
Detailer:	MAW		
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Project No./Code	
-	
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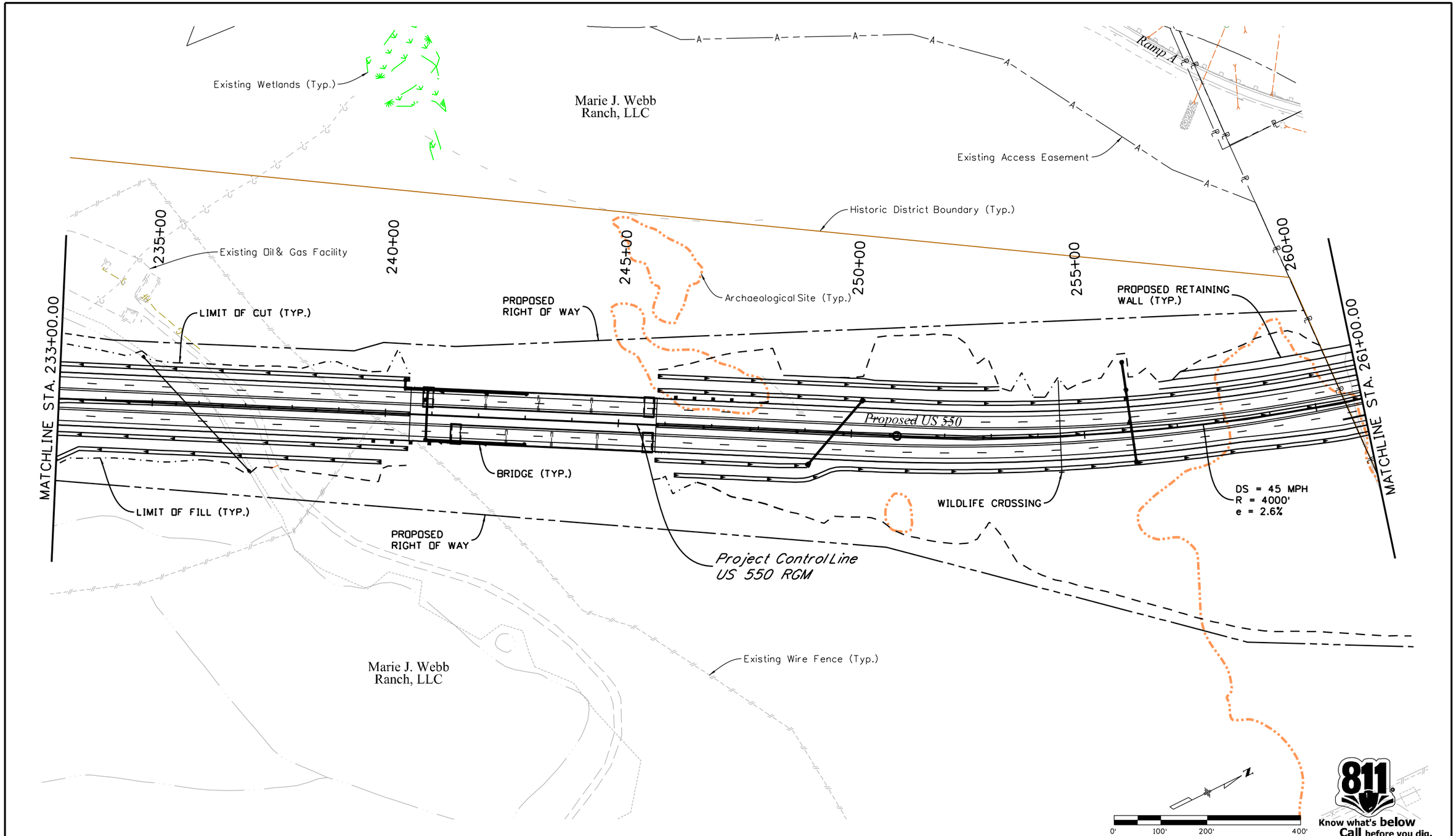

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US 550 RGM PLAN SHEET
STA. 233+00 TO STA. 261+00

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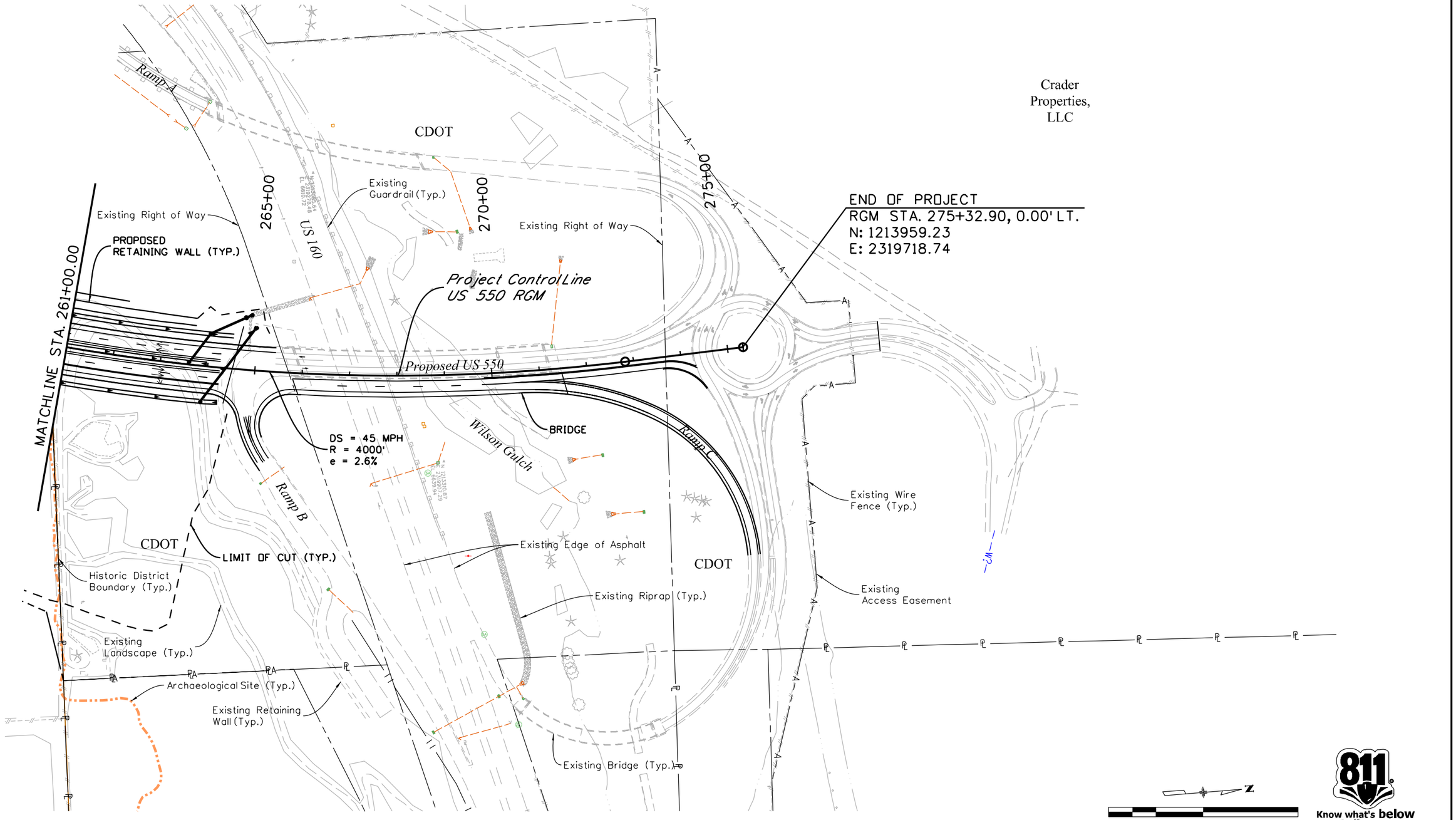

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Void:

US 550 RGM PLAN SHEET
STA. 261+00 TO STA. 275+33

Designer:	KSF	Structure Numbers	
Detailer:	MAW		
Sheet Subset:	ROADWAY	Subset Sheets:	4 of 4

Project No./Code
-
19378
Sheet Number 11

Mar 9:13:59 AM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Design\Drawings\RGM\19378DES_RGM-Plan04.dgn
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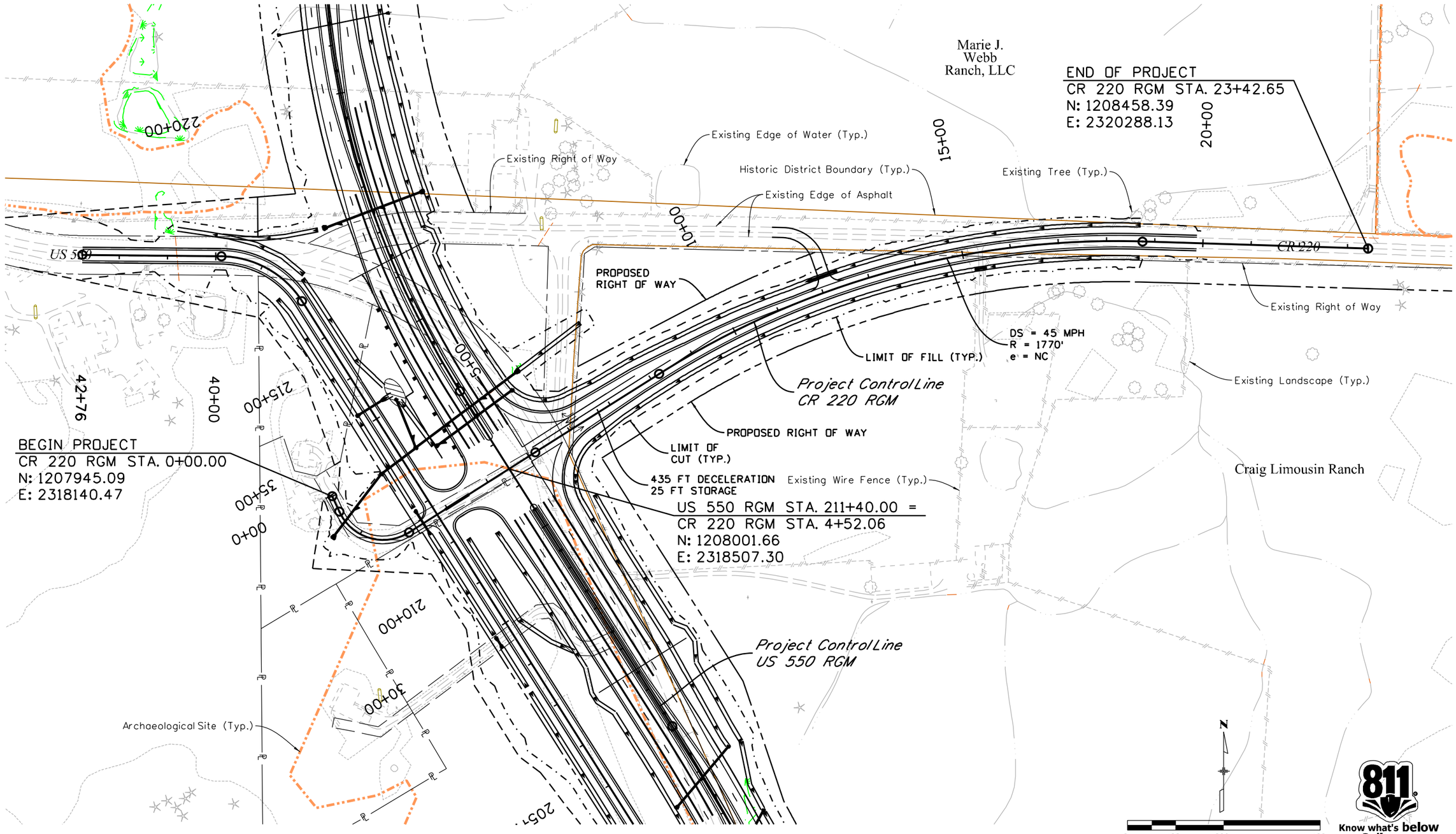

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Print Date: 5/15/2014		Sheet Revisions	
File Name: 19378DES_RGM-CR220-Plan01.dgn		Date:	Comments: Init.
Horiz. Scale: 1:200	Vert. Scale: As Noted		
Unit Information	Unit Leader Initials		
amec MULLER			

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
3803 North Main Avenue
Suite 200
Durango, CO 81301
Phone: 970-385-1440 FAX: 970-385-8365
Region 5

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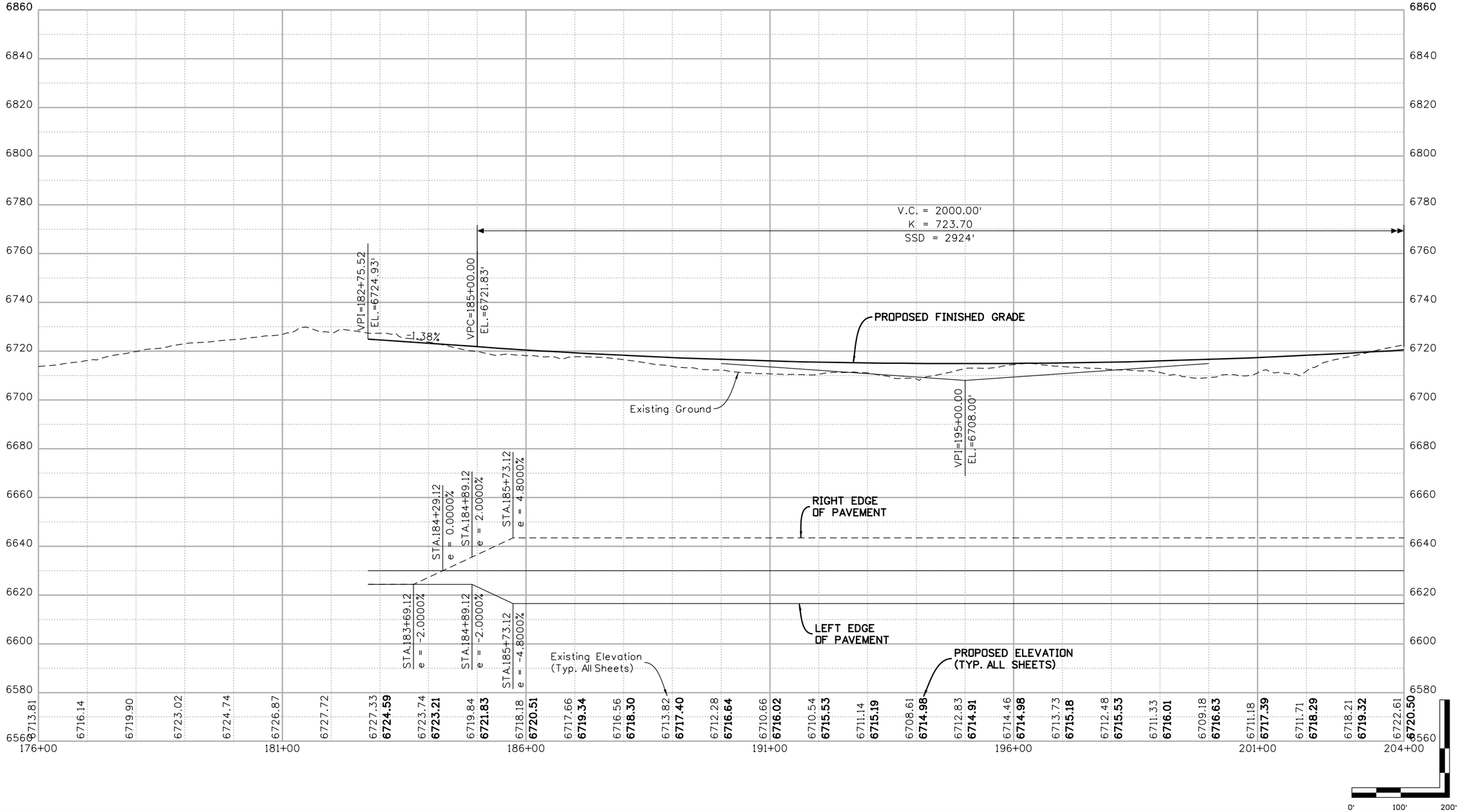
No Revisions:
Revised:
Void:

CR 220 RGM PLAN SHEET

Designer: KSF
Detailer: MAW
Sheet Subset: ROADWAY
Structure Numbers:
Subset Sheets: 1 of 1

Project No./Code
-
19378
Sheet Number 12



Print Date: 5/15/2014			
File Name: 19378DES_RGM-Prf01.dgn			
Horiz. Scale: 1:200	Vert. Scale: As Noted		
Unit Information	Unit Leader Initials		

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Sheet Revisions

Date:	Comments	Init.

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Region 5
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As Constructed	
No Revisions:	
Revised:	
Void:	

US 550 RGM
ROADWAY PROFILE
STA. 182+75.52 TO STA. 204+00

Designer:	KSF	Structure Numbers	
Detailer:	MAW		
Sheet Subset:	ROADWAY	Subset Sheets:	1 of 4

Project No./Code	
-	
19378	
Sheet Number	13

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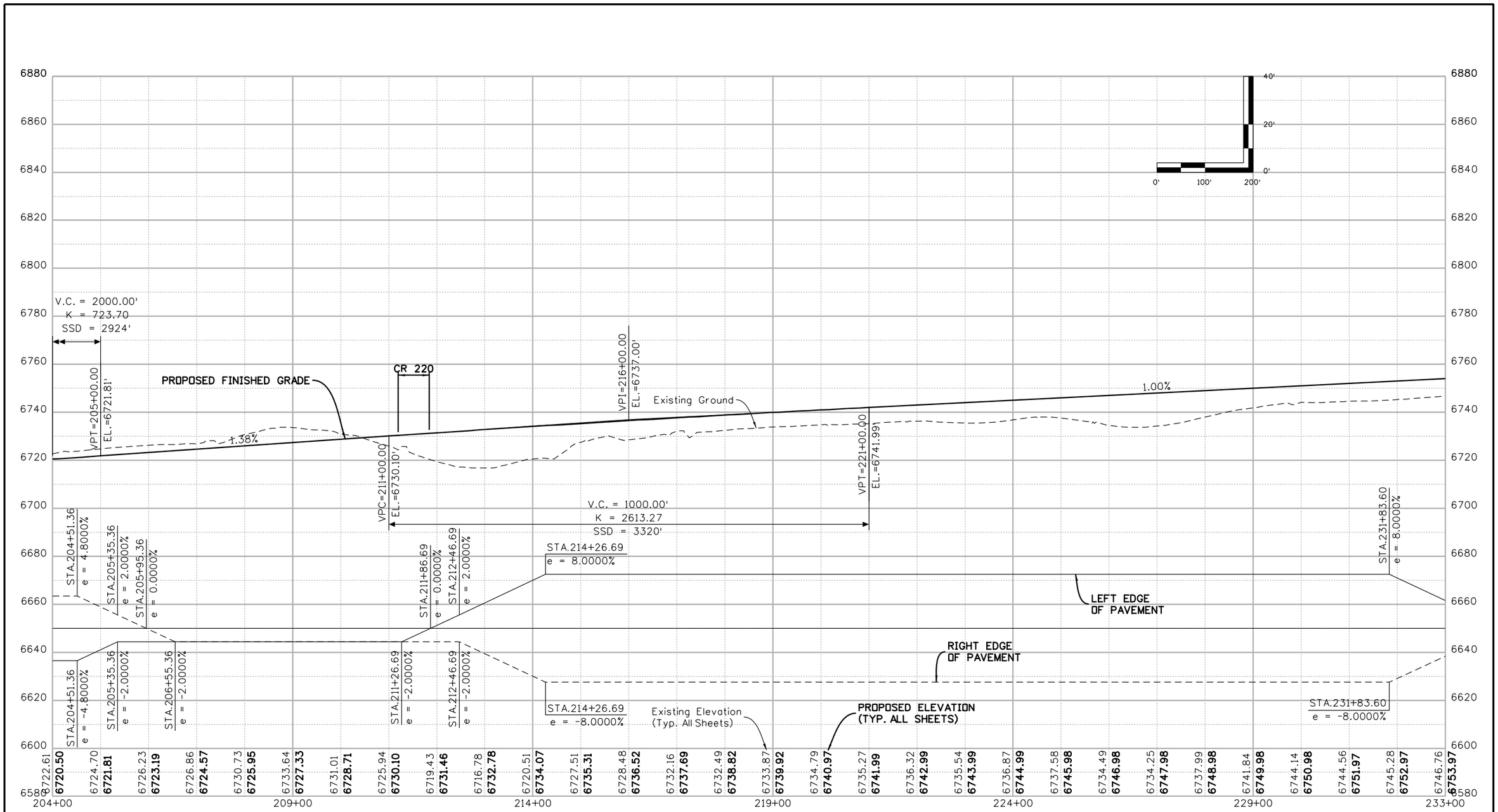

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Print Date: 5/15/2014	
File Name: 19378DES_RGM-Prf01.dgn	
Horiz. Scale: 1:200	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

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Sheet Revisions		
Date:	Comments	Init.

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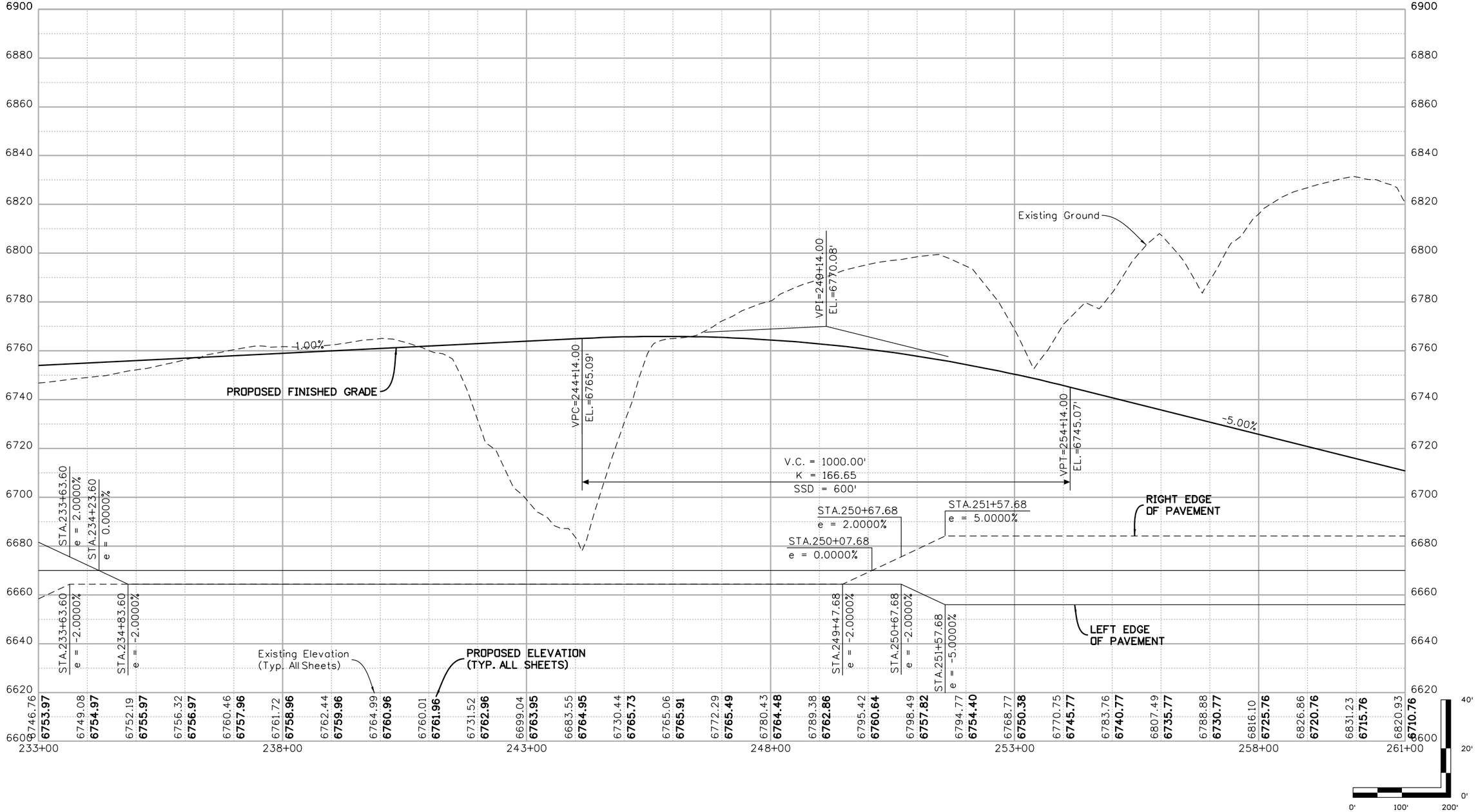
Phone: 970-385-1440 FAX: 970-385-8365
Region 5

As Constructed	
No Revisions:	
Revised:	
Void:	

US 550 RGM
ROADWAY PROFILE
STA. 204+00 TO STA. 233+00

Designer:	KSF	Structure Numbers	
Detailer:	MAW		
Sheet Subset:	ROADWAY	Subset Sheets:	2 of 4

Project No./Code	
-	
19378	
Sheet Number	14



Print Date: 5/15/2014	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 19378DES_RGM-Prf01.dgn	Date: Comments Init.	3803 North Main Avenue, Suite 200, Durango, CO 81301	No Revisions:
Horiz. Scale: 1:200 Vert. Scale: As Noted		Phone: 970-385-1440 FAX: 970-385-8365	Revised:
Unit Information Unit Leader Initials		Region 5	Void:
amec MULLER			

US 550 RGM ROADWAY PROFILE STA. 233+00 TO STA. 261+00			Project No./Code
Designer: KSF	Structure Numbers		-
Detailer: MAW			19378
Sheet Subset: ROADWAY	Subset Sheets: 3 of 4		Sheet Number 15

Mari 9:14:05 AM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Design\Drawings\RGM\19378DES_RGM-Prf01.dgn
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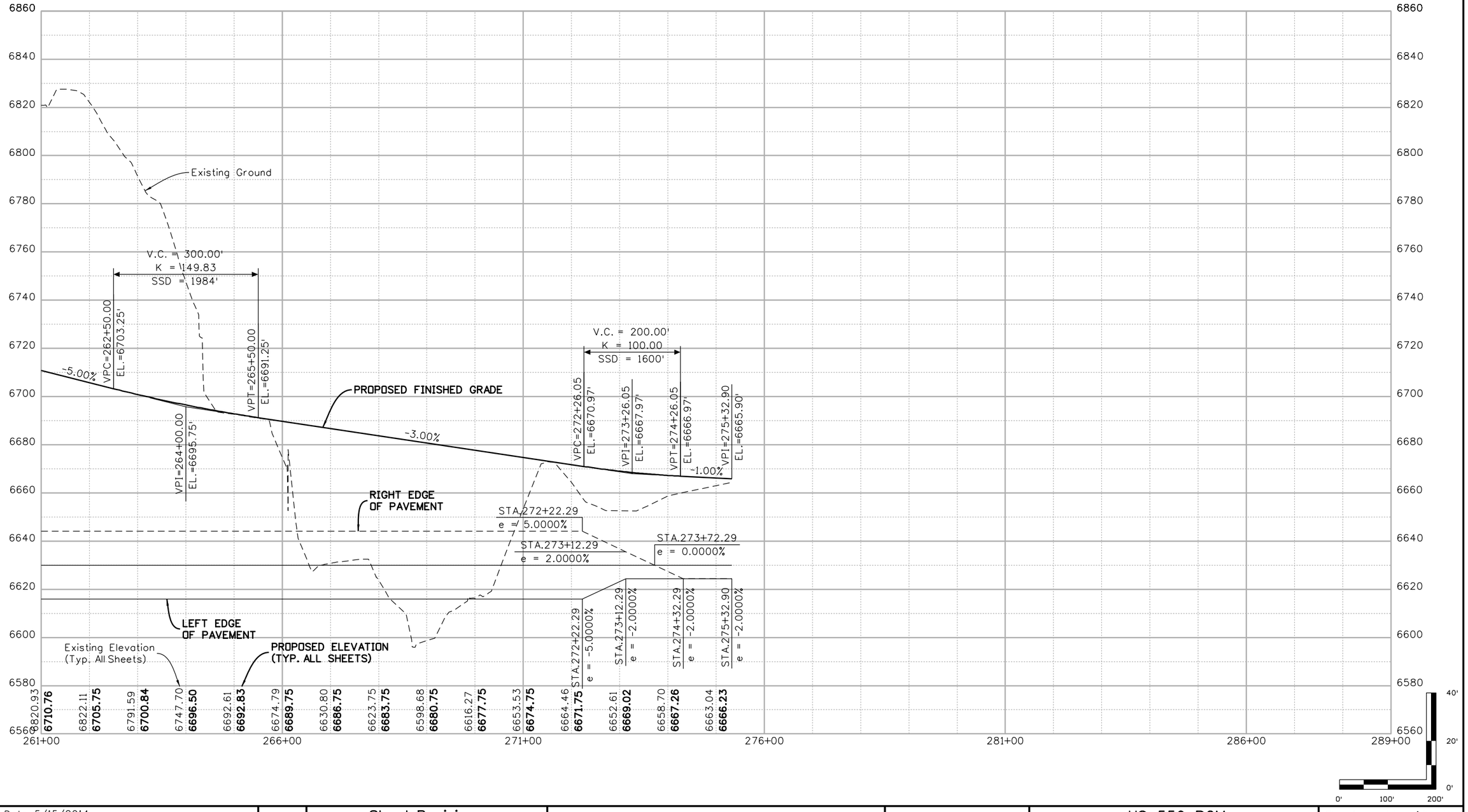

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Horiz. Scale: 1:200 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			

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As Constructed	US 550 RGM ROADWAY PROFILE STA. 261+00 TO STA. 275+32.90			Project No./Code
No Revisions:	Designer: KSF	Structure Numbers		-
Revised:	Detailer: MAW			19378
Void:	Sheet Subset: ROADWAY	Subset Sheets: 4 of 4		Sheet Number 16

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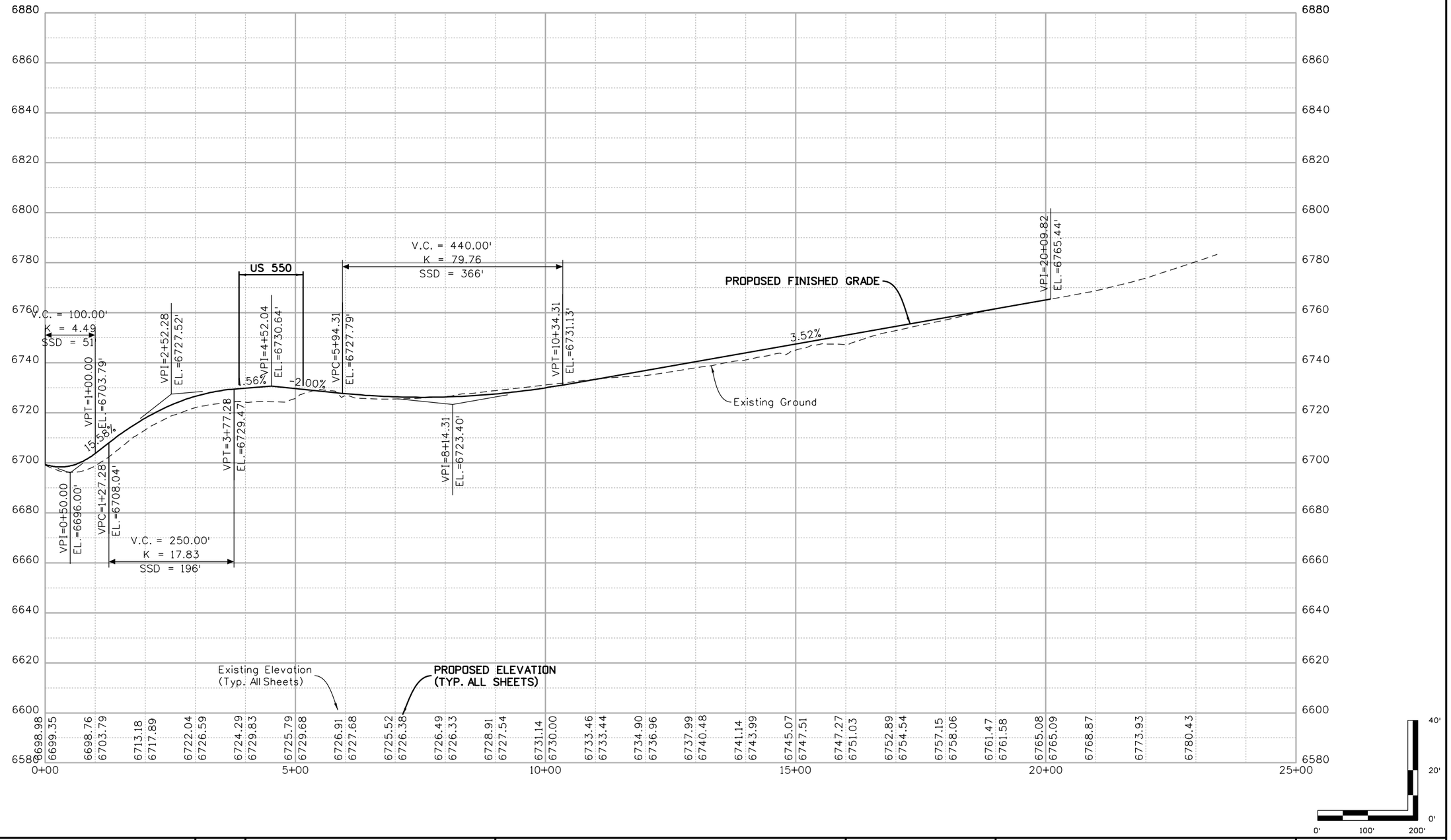

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Print Date: 5/15/2014	
File Name: 19378DES_RGM-Prf01.dgn	
Horiz. Scale: 1:200	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

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Sheet Revisions		
Date:	Comments	Init.

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Region 5

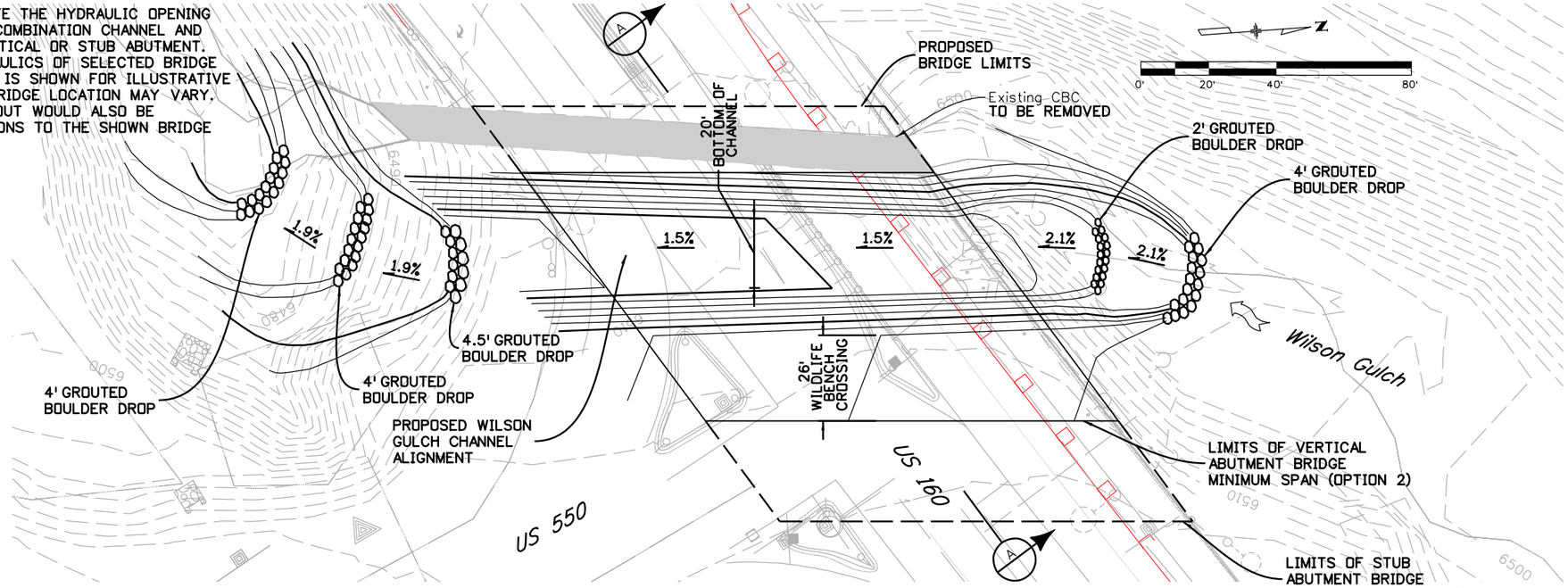
As Constructed
No Revisions:
Revised:
Void:

CR 220 RGM
ROADWAY PROFILE
STA. 0+00.00 TO STA. 20+09.82

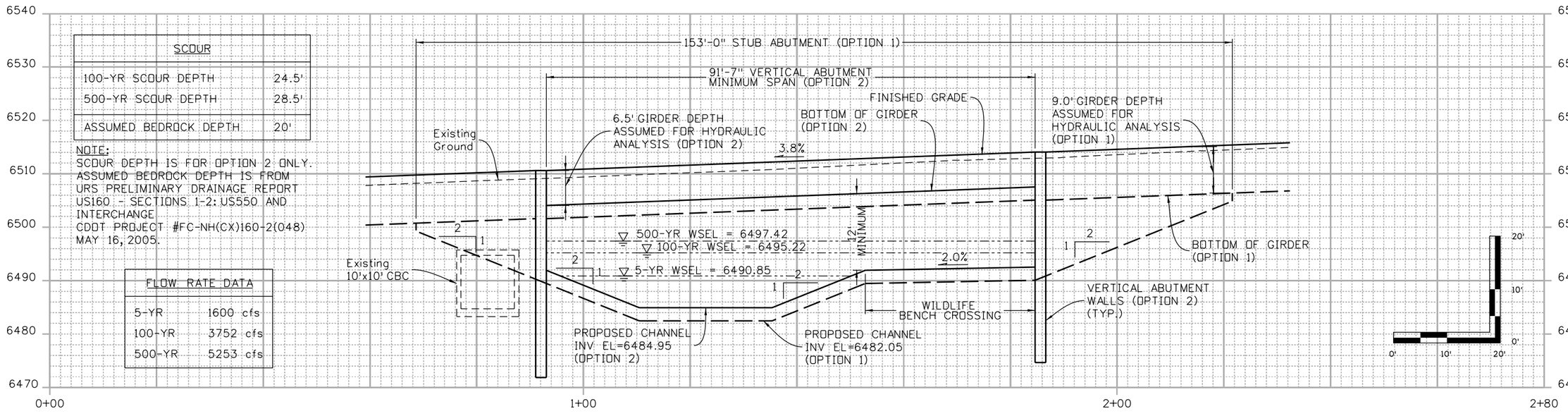
Designer:	KSF	Structure Numbers	
Detailer:	MAW		
Sheet Subset:	ROADWAY	Subset Sheets:	1 of 1

Project No./Code
-
19378
Sheet Number 17

NOTE:
SHEET PRODUCED TO ILLUSTRATE THE HYDRAULIC OPENING GEOMETRIC REQUIREMENT FOR COMBINATION CHANNEL AND WILDLIFE CROSSING FOR A VERTICAL OR STUB ABUTMENT. NOT INTENDED TO SHOW HYDRAULICS OF SELECTED BRIDGE ALTERNATIVE. BRIDGE LOCATION IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND ACTUAL BRIDGE LOCATION MAY VARY. ADJUSTMENTS TO CHANNEL LAYOUT WOULD ALSO BE REQUIRED FOR ANY MODIFICATIONS TO THE SHOWN BRIDGE LOCATIONS.



PLAN



SCOUR	
100-YR SCOUR DEPTH	24.5'
500-YR SCOUR DEPTH	28.5'
ASSUMED BEDROCK DEPTH	20'

NOTE:
SCOUR DEPTH IS FOR OPTION 2 ONLY. ASSUMED BEDROCK DEPTH IS FROM URS PRELIMINARY DRAINAGE REPORT US160 - SECTIONS 1-2: US550 AND INTERCHANGE CDOT PROJECT #FC-NH(CX)160-2(048) MAY 16, 2005.

FLOW RATE DATA	
5-YR	1600 cfs
100-YR	3752 cfs
500-YR	5253 cfs

TYPICAL BRIDGE SECTION (A)

Print Date: 5/15/2014
File Name: 19378HYDR_CBC Plan01.dgn
Horiz. Scale: AS NOTED Vert. Scale: As Noted
Unit Information Unit Leader Initials

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Sheet Revisions		
Date:	Comments	Init.

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Void:

U.S. 160 BRIDGE AT WILSON GULCH
HYDRAULICS PLAN AND PROFILE

Designer: JAM
Detailer: NJM
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 1 of 1

Project No./Code
-
19378
Sheet Number 18

Mar 9:14:10 AM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Hydraulics\Drawings\RGM\19378HYDR_CBC Plan01.dgn
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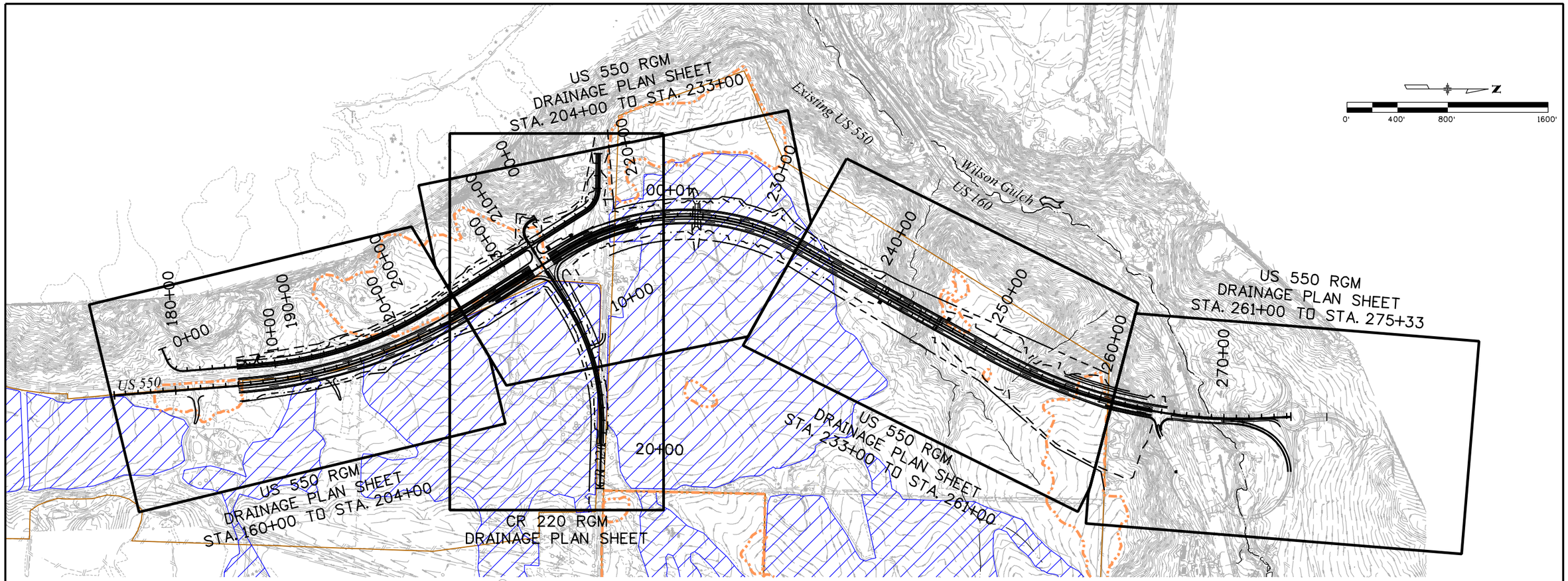

LEGEND:

- EXISTING FENCE
- EXISTING MAJOR CONTOURS (XXXX)
- FINISHED MAJOR CONTOURS (XXXX)
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING HIGH PRESSURE GAS LINE
- EXISTING GAS LINE
- EXISTING ELECTRIC LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING STORM SEWER
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING TRAFFIC ITS LINE
- EXISTING TREE
- NON-TREATED DITCHES
- NON-TREATED CULVERTS
- MS4 CULVERTS
- MS4 DITCHES
- MS4 TREATMENT
- IRRIGATION
- IRRIGATION DETENTION POND
- WILDLIFE CROSSING
- RIPRAP
- ARCHAEOLOGICAL BOUNDARY
- IRRIGATED FARMLAND
- HISTORIC DISTRICT BOUNDARY

DRAINAGE LEGEND:

STRUCTURE NUMBER / STRUCTURE IDENTIFICATION

STRUCTURE IDENTIFICATION	STRUCTURE TYPE
C	CDOT TYPE C INLET
D	CDOT TYPE D INLET
VG	CDOT SINGLE VANE GRATE INLET
MHX	CDOT MANHOLE (X DIAMETER)
FES	FLARED END SECTION
EX	EXISTING STRUCTURE
PE	PIPE END
IS	INLET (SPECIAL) (BRIDGE DRAIN)
PC	PIPE CONNECTION WITH CONCRETE COLLAR
HDS	HYDRODYNAMIC SEPARATOR PAID FOR AS MANHOLE (SPECIAL)
CC	CURB CUT
OS	OUTLET STRUCTURE
T13	TYPE 13 INLET
HW	HEADWALL

DRAINAGE GENERAL NOTES:

1. ALL CONCRETE PIPE SHALL BE DRAINAGE PIPE CLASS 2 (SULFATE RESISTANCE CLASS 0) CONFORMING TO ASTM C76, UNLESS OTHERWISE SPECIFIED.
2. REMOVALS ARE NOT SHOWN ON PLAN SHEETS.

Print Date: 5/15/2014
File Name: 19378HYDR_RGM-KeyPlan01.dgn
Horiz. Scale: 1:800 Vert. Scale: As Noted
Unit Information Unit Leader Initials

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
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Region 5

As Constructed
No Revisions:
Revised:
Void:

US 550 RGM
DRAINAGE KEY MAP

Designer: WVW/JAM
Detailer: MAW
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 1 of 6

Project No./Code: -
19378
Sheet Number 19

Mar 4:41:27 PM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Hydraulics\Drawings\RGM\19378HYDR_RGM-KeyPlan01.dgn
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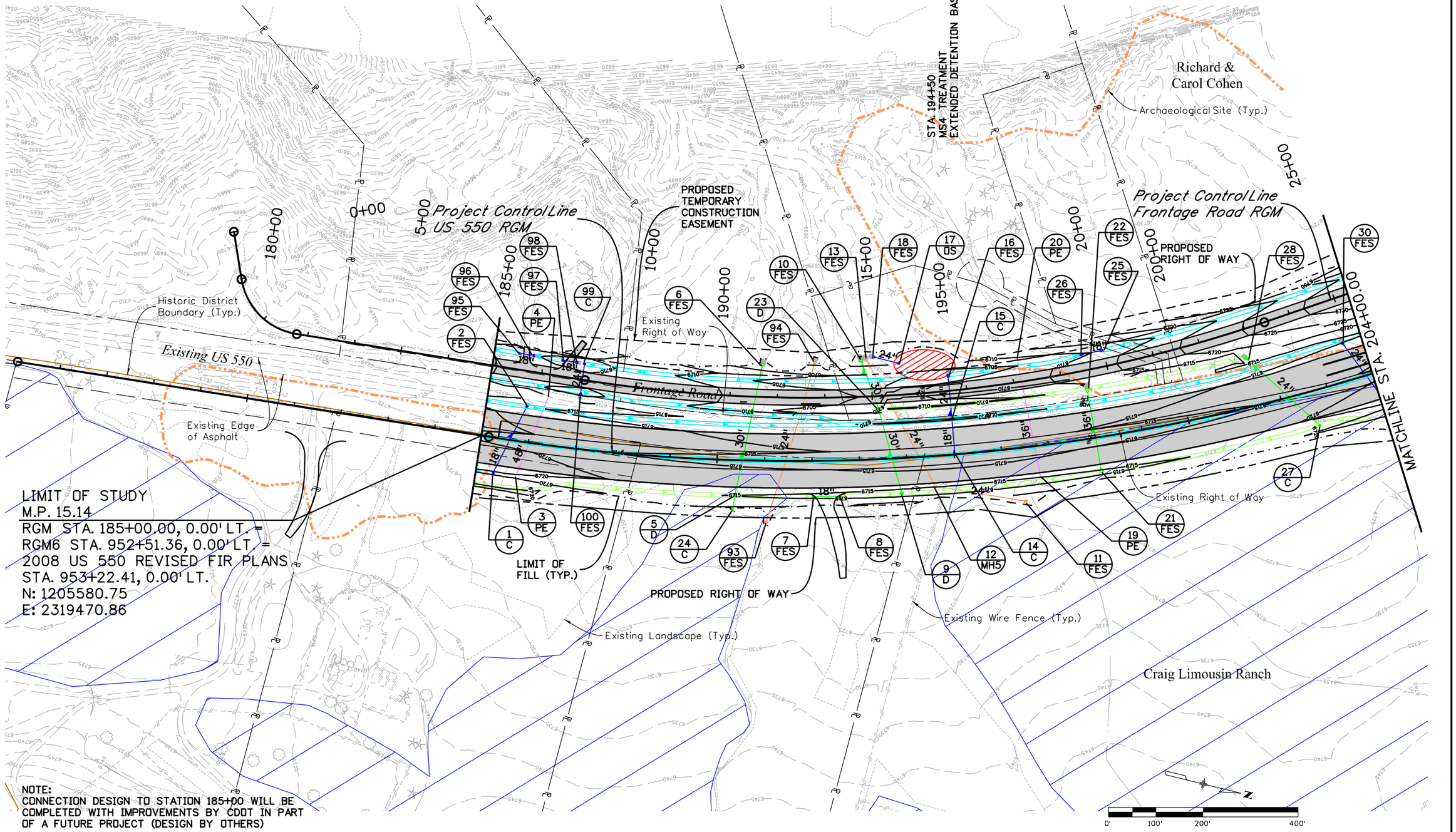

NOTE:
CONNECTION DESIGN TO STATION 185+00 WILL BE COMPLETED WITH IMPROVEMENTS BY CDOT IN PART OF A FUTURE PROJECT (DESIGN BY OTHERS)

Print Date: 5/15/2014
File Name: 19378HYDR_RGM-Plan01.dgn
Horiz. Scale: 1:200 Vert. Scale: As Noted
Unit Information Unit Leader Initials

amec MULLER

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
Region 5
3803 North Main Avenue
Suite 200
Durango, CO 81301
Phone: 970-385-1440 FAX: 970-385-8365

As Constructed
No Revisions:
Revised:
Void:

US 550 RGM
DRAINAGE PLAN SHEET
STA. 160+00 TO STA. 204+00

Designer: JAM/WVW
Detailer: MAW
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 2 of 6

Project No./Code
-
19378
Sheet Number 20

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5/15/2014 CDOT-DefaultPrinter_V8i.pltcfg CDOT-PenTable V8i-revised.tbl

Roger & Susan Hillmeyer

Eagle Block Co.

Marie J. Webb Ranch, LLC

Richard & Carol Cohen

Craig Limousin Ranch

STA. 214+00 MS4 TREATMENT EXTENDED DETENTION BASIN

STA. 227+00 MS4 TREATMENT EXTENDED DETENTION BASIN

Existing Edge of Asphalt

Existing Wetlands (Typ.)

Existing Right of Way

Existing Landscape (Typ.)

Archaeological Site (Typ.)

Existing Wire Fence (Typ.)

Existing Edge of Water (Typ.)

Historic District Boundary (Typ.)

Project Control Line Frontage Road RGM

Project Control Line US 550 RGM

Existing CR 220

PROPOSED TEMPORARY CONSTRUCTION EASEMENT

PROPOSED RIGHT OF WAY

Proposed SB US 550

Proposed NB US 550

LIMIT OF FILL (TYP.)

LIMIT OF CUT (TYP.)

MATCHLINE STA. 204+00.00

MATCHLINE STA. 9+00

MATCHLINE STA. 233+00.00

STA. 224+50
LARGE ANIMAL CROSSING
187 LF OF 24'x12' CONCRETE BOX CULVERT
WITH WINGWALLS RT, LT.
FILLED WITH 1' TOPSOIL

NOTE:
FOR DRAINAGE STRUCTURES ON CR 220
SEE CR 220 RGM DRAINAGE PLAN SHEET
(SHEET 6 OF 6).

0' 100' 200' 400'

Mari 4:41:37 PM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Hydraulics\Drawings\RGM\19378HYDR_RGM-Plan02.dgn
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Print Date: 5/15/2014	
File Name: 19378HYDR_RGM-Plan02.dgn	
Horiz. Scale: 1:200	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

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Sheet Revisions

Date:	Comments	Init.

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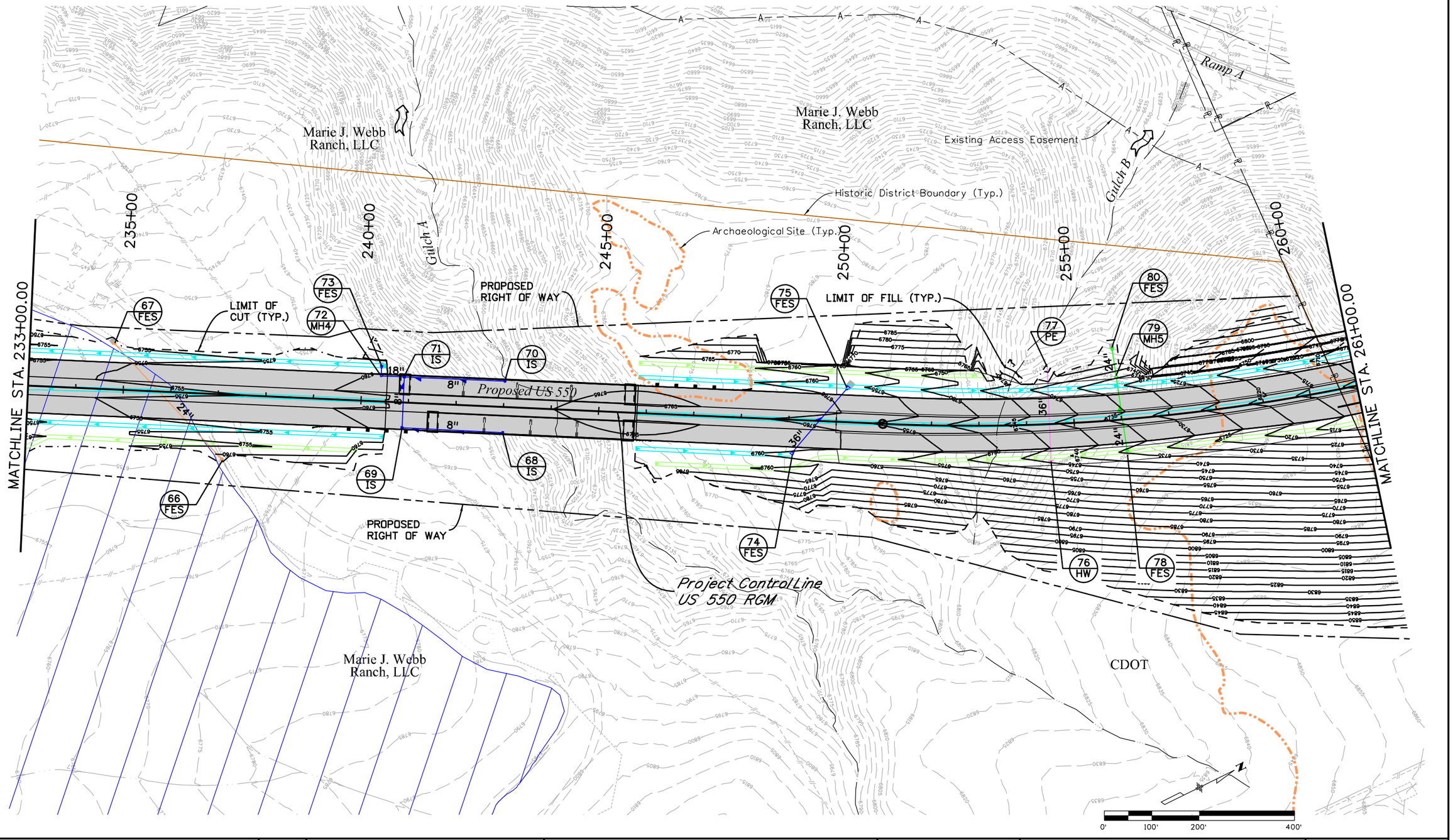
As Constructed

No Revisions:	
Revised:	
Void:	

US 550 RGM
DRAINAGE PLAN SHEET
STA. 204+00 TO STA. 233+00

Designer:	JAM/WVW	Structure Numbers	
Detailer:	MAW		
Sheet Subset:	DRAINAGE	Subset Sheets:	3 of 6

Project No./Code	-
	19378
Sheet Number	21



Print Date: 5/15/2014	Sheet Revisions		
File Name: 19378HYDR_RGM-Plan03.dgn	Date:	Comments	Init.
Horiz. Scale: 1:200 Vert. Scale: As Noted			
Unit Information Unit Leader Initials			
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As Constructed
No Revisions:
Revised:
Void:

US 550 RGM
DRAINAGE PLAN SHEET
STA. 233+00 TO STA. 261+00

Designer: JAM/WVW
Detailer: MAW
Sheet Subset: DRAINAGE
Structure Numbers:
Subset Sheets: 4 of 6

Project No./Code
-
19378
Sheet Number 22

Mar 4 4:41:40 PM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Hydraulics\Drawings\RGM\19378HYDR_RGM-Plan03.dgn
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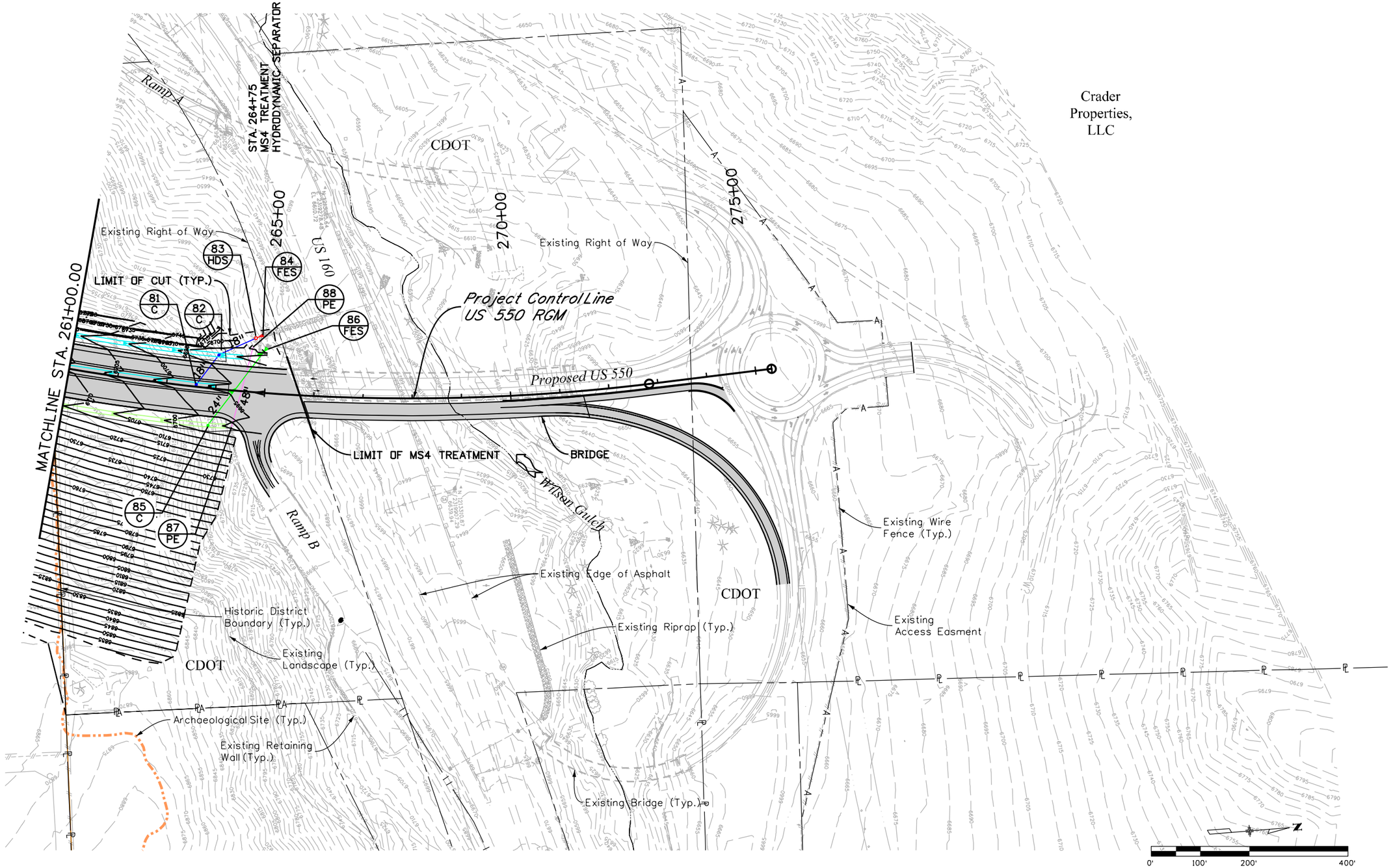
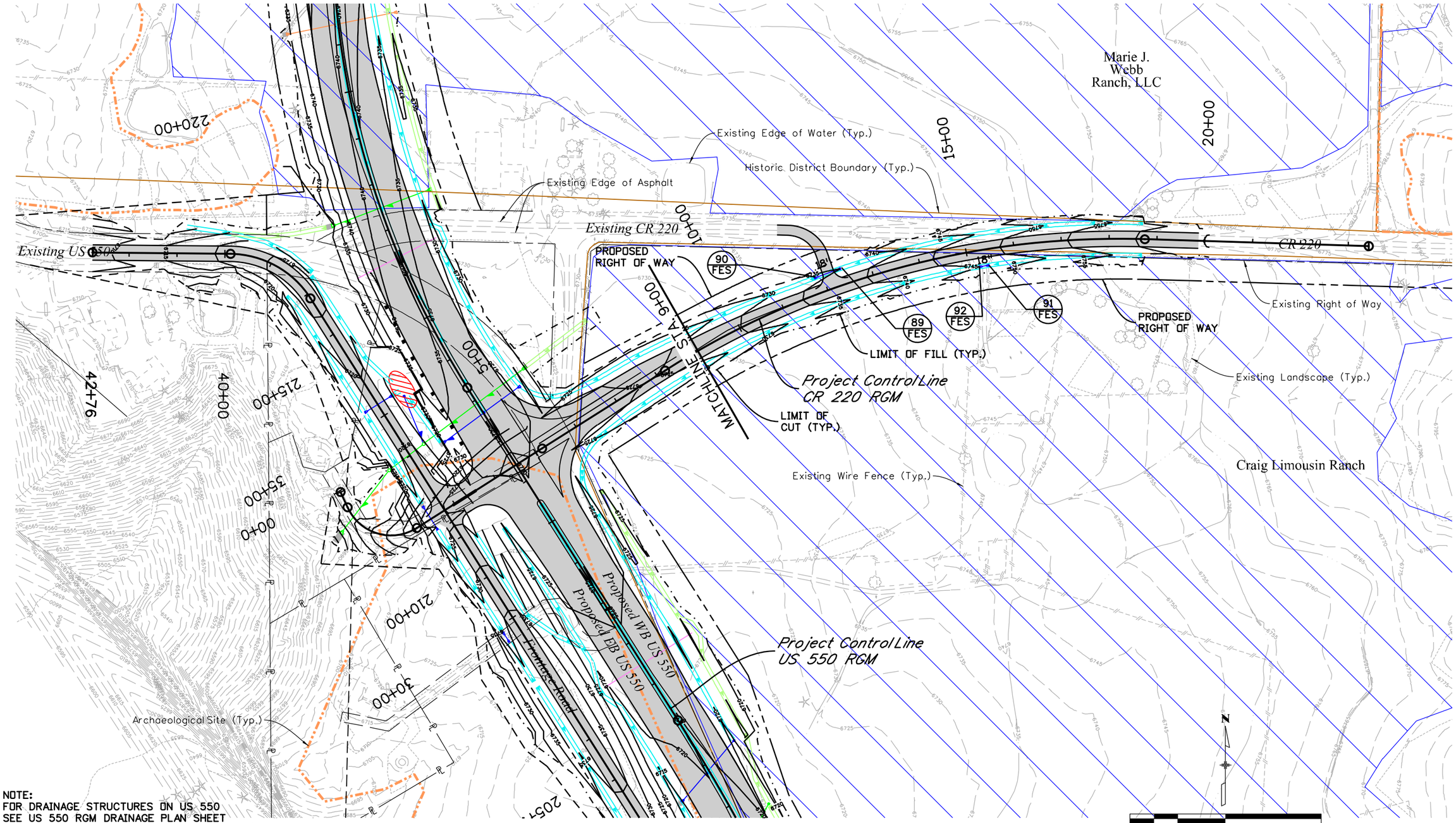


Print Date: 5/15/2014		Sheet Revisions			Colorado Department of Transportation
File Name: 19378HYDR_RGM-Plan04.dgn		Date:	Comments	Init.	3803 North Main Avenue Suite 200 Durango, CO 81301 Phone: 970-385-1440 FAX: 970-385-8365
Horiz. Scale: 1:200 Vert. Scale: As Noted					Region 5
Unit Information Unit Leader Initials					
amec MULLER					

As Constructed	US 550 RGM DRAINAGE PLAN SHEET STA. 261+00 TO STA. 275+33			Project No./Code
No Revisions:				-
Revised:	Designer: JAM/WVW	Structure Numbers		19378
Void:	Detailer: MAW			Sheet Number 23
	Sheet Subset: DRAINAGE	Subset Sheets:	5 of 6	

Mar 4:41:42 PM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Hydraulics\Drawings\RGM\19378HYDR_RGM-Plan04.dgn
5/15/2014 CDOT-DefaultPrinter_V8i.pltcfg CDOT-PenTable V8i-revised.tbl



NOTE:
FOR DRAINAGE STRUCTURES ON US 550
SEE US 550 RGM DRAINAGE PLAN SHEET
STA. 204+00 TO STA. 233+00 (SHEET 3 OF 6).

Print Date: 5/15/2014	
File Name: 19378HYDR_RGM-CR220-Plan01.dgn	
Horiz. Scale: 1:200	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

amec MULLER

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Sheet Revisions

Date:	Comments	Init.

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Region 5

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No Revisions:	
Revised:	
Void:	

CR 220 RGM
DRAINAGE PLAN SHEET

Designer:	JAM/WVW	Structure Numbers	
Detailer:	MAW		
Sheet Subset:	DRAINAGE	Subset Sheets:	6 of 6

Project No./Code	
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19378	
Sheet Number	24

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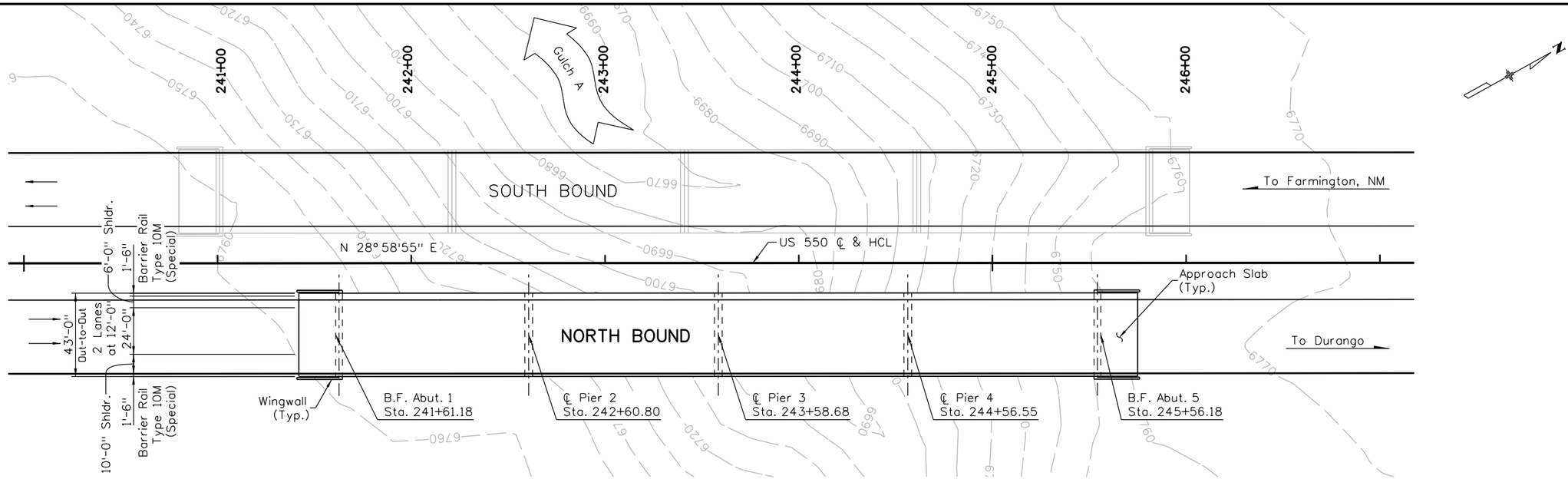
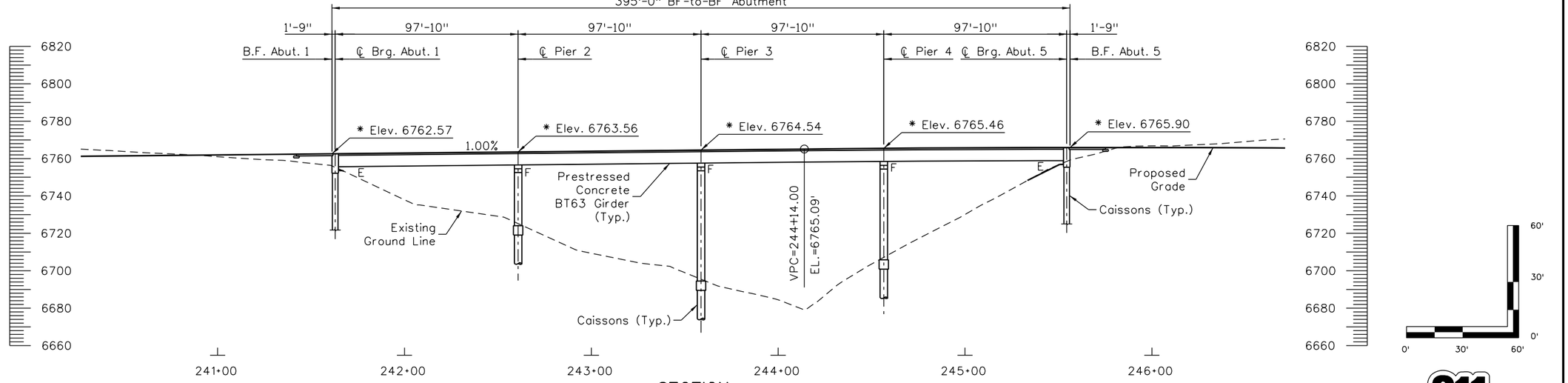


PLAN



SECTION

Taken Along ℄ Bridge
(North Bound Shown
South Bound Similar)
* Finished Profile Grade Elevations
(Top of HMA)

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

Design	INITIAL	DATE
Designed By	XXX	MM/YY
Checked By	XXX	MM/YY

Detail	INITIAL	DATE
Detailed By	XXX	MM/YY
Checked By	XXX	MM/YY

Quantities	INITIAL	DATE
Quantities By	XXX	MM/YY
Checked By	XXX	MM/YY

Revision Dates (Preliminary Stage Only)
MM/YY

Print Date: 5/15/2014
File Name: 01-19378_RGM Align_US550 NB over Gulch A_PnP.dgn
Horiz. Scale: 1:60 Vert. Scale: As Noted
Unit Information Unit Leader Initials

amec MULLER

Sheet Revisions		
Date:	Comments	Init.

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Region 5

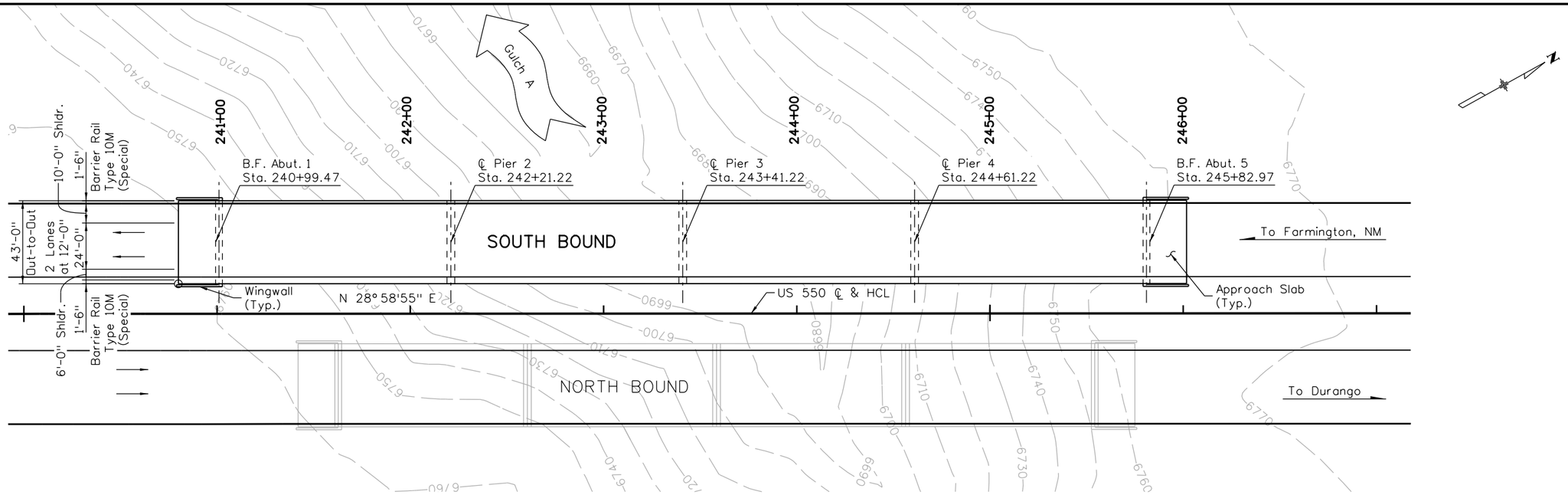
As Constructed
No Revisions:
Revised:
Void:

RGM - US 550
NORTH BOUND OVER GULCH A
PLAN & PROFILE

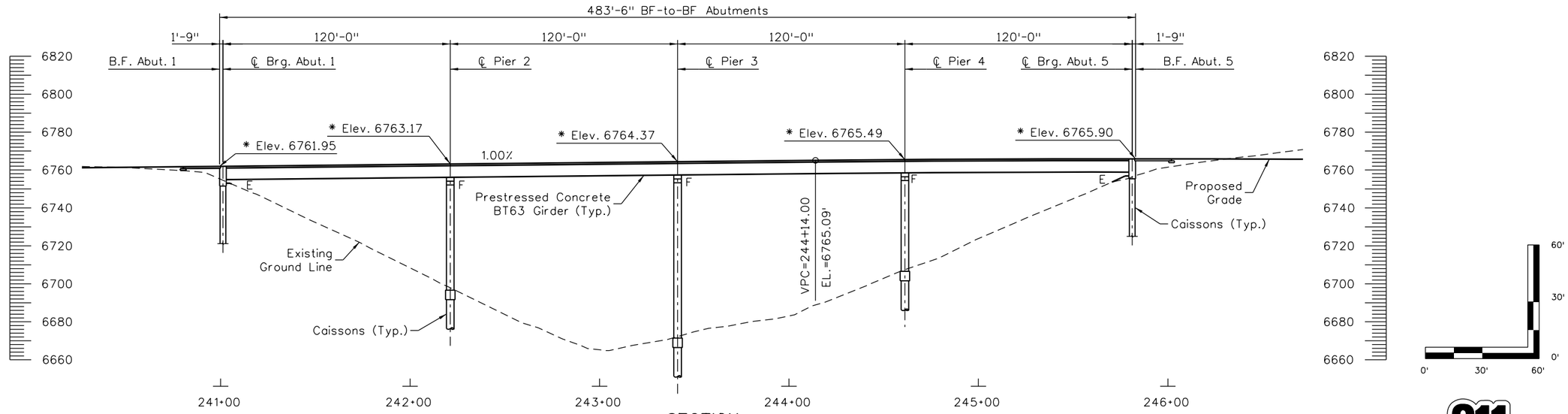
Designer: D. Barr
Detailer: M. Crater
Sheet Subset: Bridge
Structure Numbers:
Subset Sheets: B1 of 8

Project No./Code
-
19378
Sheet Number 25

mark.crater 8:45:14 AM P:\Project\Transportation\CDOT R5\2013 CDOT R5 US 550 SEIS Alternatives\9.0 CADD\9.1 Bridge\Drawings\Working\RGM_Alignment\01-19378_RGM Align_US550 NB over Gulch A_PnP.dgn
5/15/2014



PLAN



SECTION

Taken Along ℄ Bridge
(South Bound Shown
North Bound Similar)
* Finished Profile Grade Elevations
(Top of HMA)

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

Design	INITIAL	DATE
Designed By	XXX	MM/YY
Checked By	XXX	MM/YY

Detail	INITIAL	DATE
Detailed By	XXX	MM/YY
Checked By	XXX	MM/YY

Quantities	INITIAL	DATE
Quantities By	XXX	MM/YY
Checked By	XXX	MM/YY

Revision Dates (Preliminary Stage Only)	Rev.
MM/YY	MM/YY

Print Date: 5/15/2014
File Name: 02-19378_RGM Align_US550 SB over Gulch A_PnP.dgn
Horiz. Scale: 1:60 Vert. Scale: As Noted
Unit Information Unit Leader Initials

amec MULLER

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
DEPARTMENT OF TRANSPORTATION
3803 North Main Avenue
Suite 200
Durango, CO 81301
Phone: 970-385-1440 FAX: 970-385-8365
Region 5

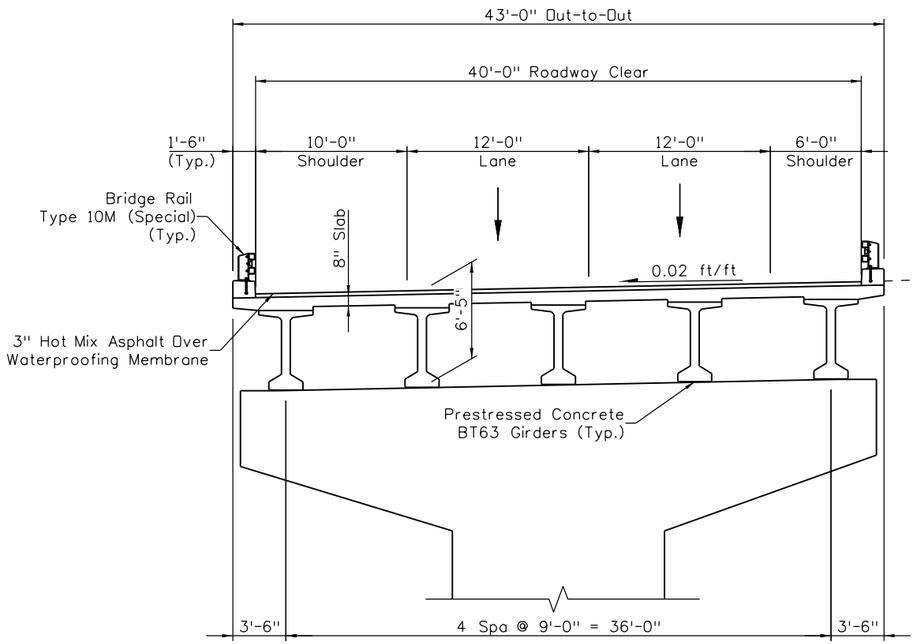
As Constructed
No Revisions:
Revised:
Void:

RGM - US 550
SOUTH BOUND OVER GULCH A
PLAN & PROFILE

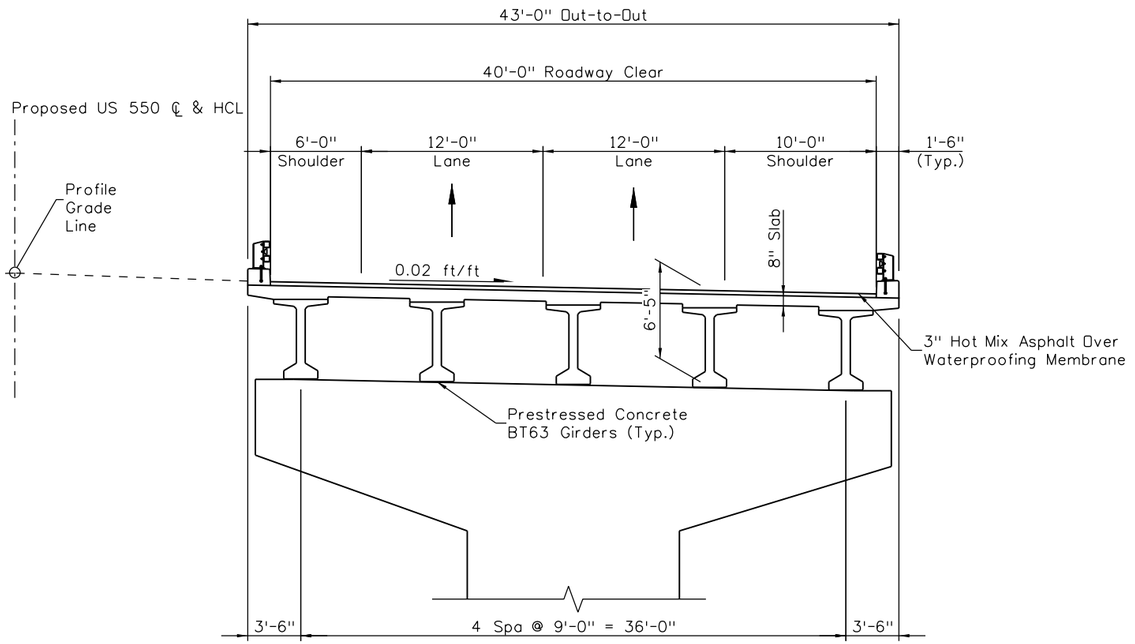
Designer: D. Barr
Detailer: M. Crater
Sheet Subset: Bridge
Structure Numbers:
Subset Sheets: B2 of 8

Project No./Code: -
19378
Sheet Number 26

mark.crater 8:45:15 AM P:\Project\Transportation\CDOT R5\2013 CDOT R5 US 550 SEIS Alternatives\9.0 CADD\9.1 Bridge\Drawings\Working\RGM_Alignment\02-19378_RGM Align_US550 SB over Gulch A_PnP.dgn
5/15/2014



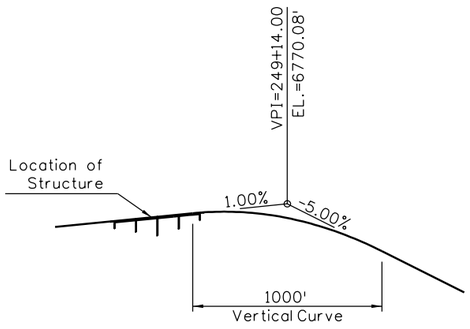
SOUTHBOUND

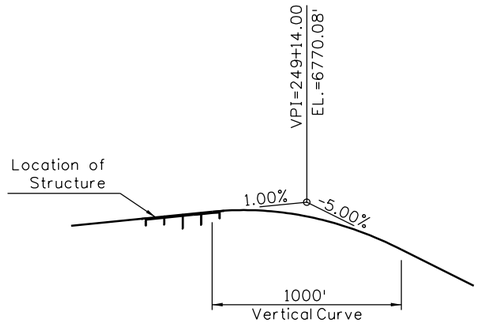


NORTHBOUND

TYPICAL SECTION

Scale: 1"=10'





PROFILE GRADE

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

Print Date: 5/15/2014	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 03-19378_RGM Align_US550 over Gulch A_Typ Sec.dgn	Date: / Comments / Init.	3803 North Main Avenue, Suite 200, Durango, CO 81301	No Revisions:
Horiz. Scale: 1:10 Vert. Scale: As Noted		Phone: 970-385-1440 FAX: 970-385-8365	Revised:
Unit Information Unit Leader Initials		Region 5	Void:
amec MULLER			

RGM US 550 OVER GULCH A TYPICAL SECTION			
Designer: D. Barr	Structure Numbers		Project No./Code: -
Detailer: M. Crater			19378
Sheet Subset: Bridge	Subset Sheets: B3 of 8		Sheet Number 27

Design			Detail			Quantities		
	INITIAL	DATE		INITIAL	DATE		INITIAL	DATE
Designed By	XXX	MM/YY	Detailed By	XXX	MM/YY	Quantities By	XXX	MM/YY
Checked By	XXX	MM/YY	Checked By	XXX	MM/YY	Checked By	XXX	MM/YY

Revision Dates (Preliminary Stage Only)						
Revision						
MM/YY						

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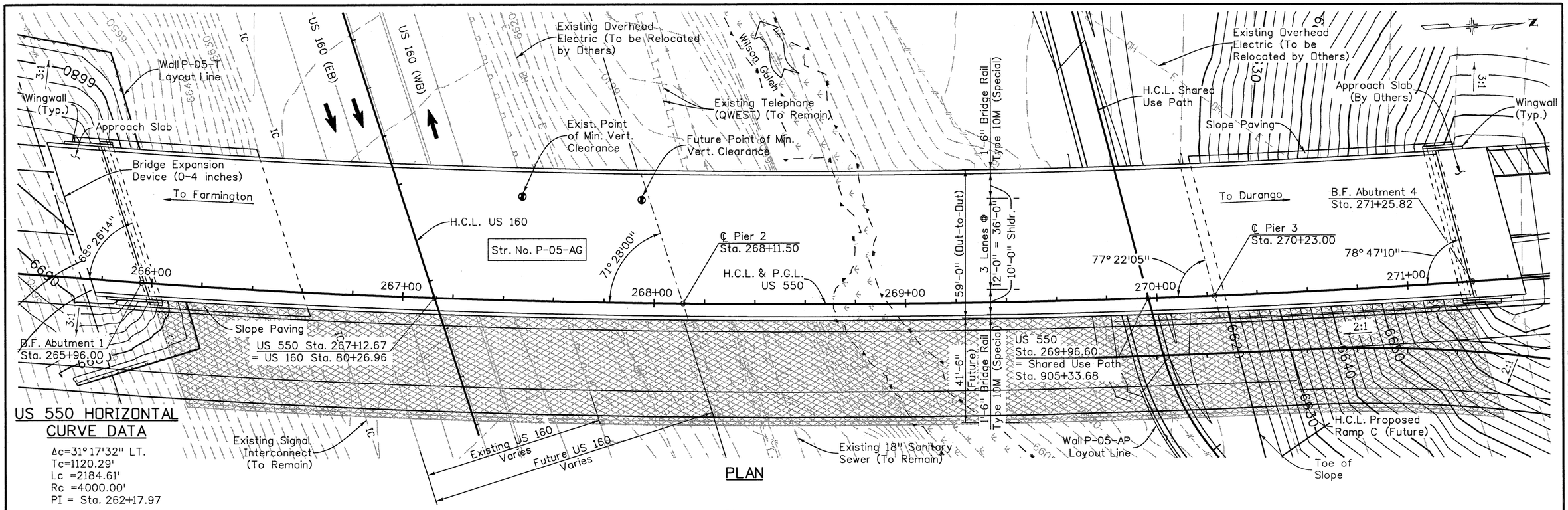
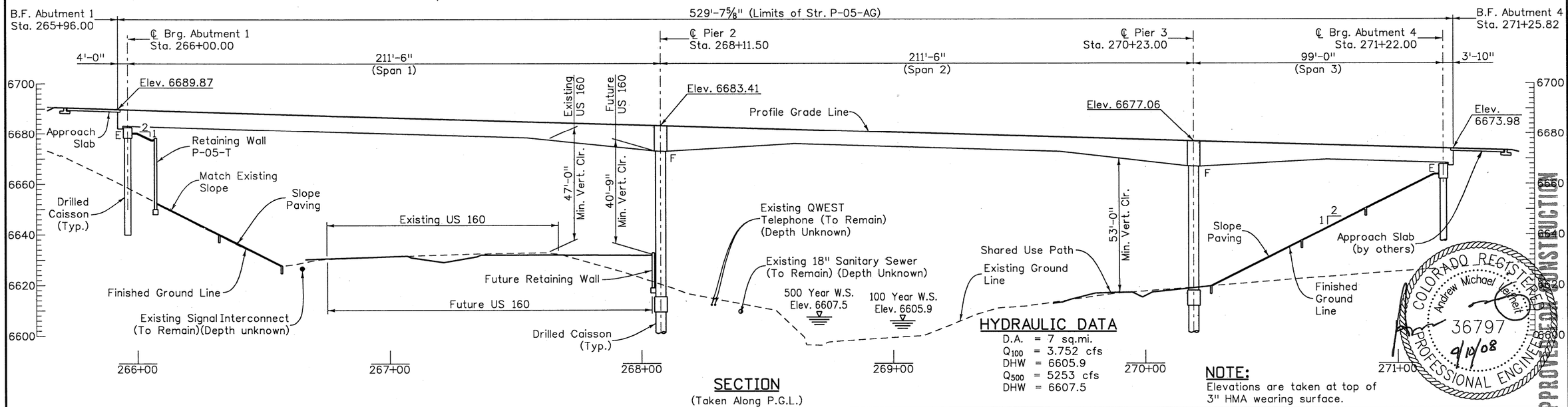
mark.crater 8:45:16 AM
5/15/2014



US 550 HORIZONTAL CURVE DATA

Δc=31° 17'32" LT.
Tc=1120.29'
Lc =2184.61'
Rc =4000.00'
PI = Sta. 262+17.97



SECTION

(Taken Along P.G.L.)

HYDRAULIC DATA

D.A. = 7 sq.mi.
Q_{100} = 3.752 cfs
DHW = 6605.9
Q_{500} = 5253 cfs
DHW = 6607.5

NOTE:
Elevations are taken at top of 3" HMA wearing surface.

COLORADO REGISTERED PROFESSIONAL ENGINEER
Andrew Michael Leifheit
36797
4/10/08

APPROVED FOR CONSTRUCTION
9/12/08
Date

FINAL DESIGN DOCUMENTS - 9/10/08

Design	INITIAL	DATE
Designed By	AML	08/08
Checked By	MJN	08/08

Detail	INITIAL	DATE
Detailed By	DRA	08/08
Checked By	MJN	08/08

Quantities	INITIAL	DATE
Quantities By	AML	08/08
Checked By	MJN	08/08

Print Date: 9/10/2008
File Name: 16042AG_GenLayout_01.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted
Unit Information 0221 Unit Leader STW

SEMA CONSTRUCTION
WILSON & COMPANY

0000

Sheet Revisions		
Date:	Comments	Init.

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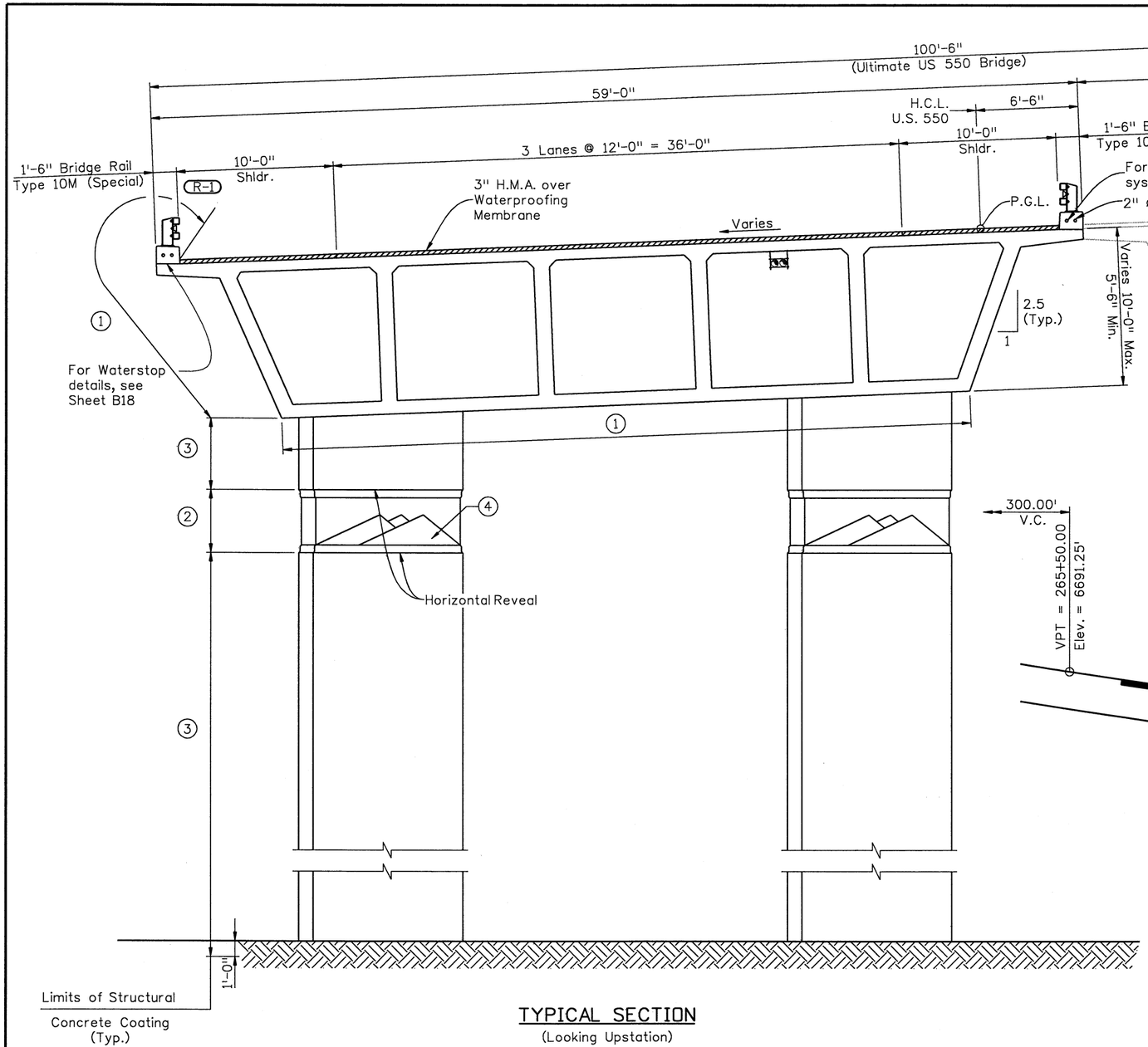
Region 5 EJA

As Constructed	
No Revisions:	
Revised:	
Void:	

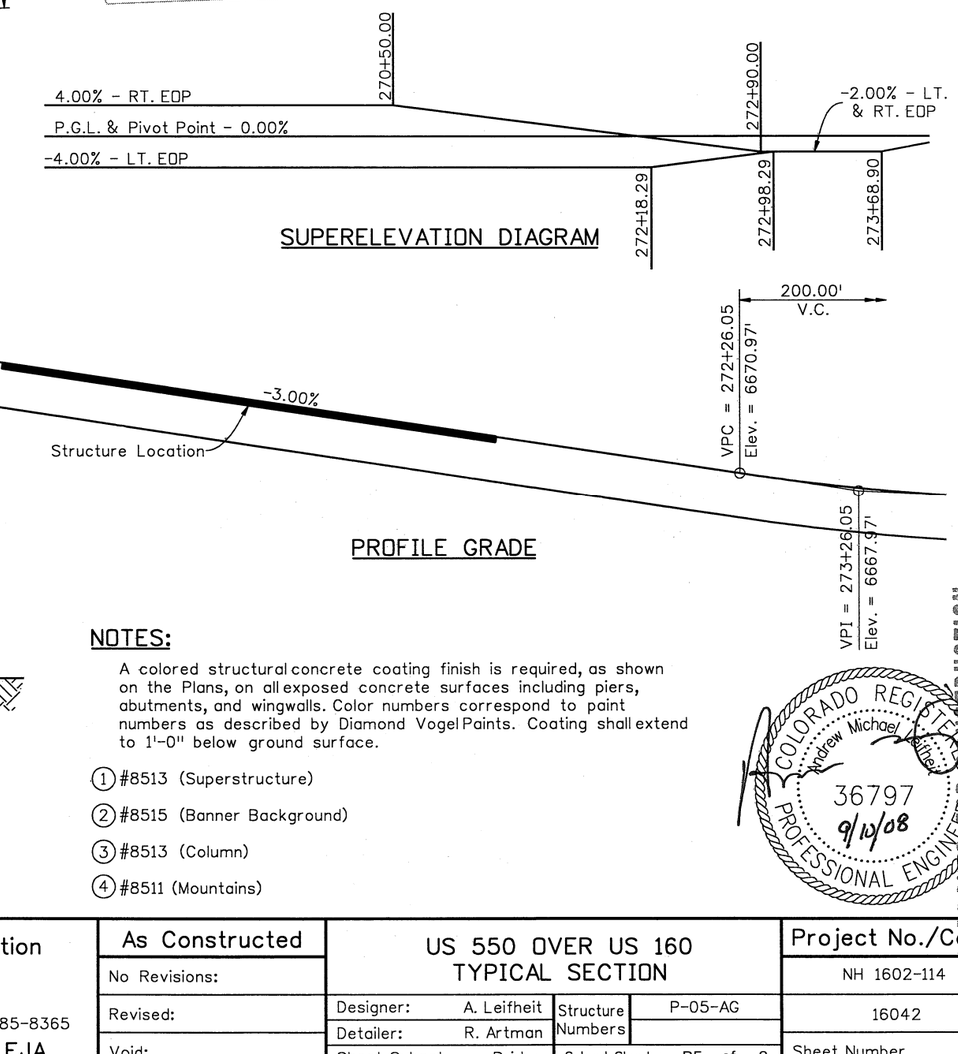
US 550 OVER US 160 GENERAL LAYOUT

Designer:	A. Leifheit	Structure Numbers	P-05-AG
Detailer:	D. Anderson		
Sheet Subset:	Bridge	Subset Sheets:	B4 of 8

Project No./Code	
NH 1602-114	
16042	
Sheet Number	28



TYPICAL SECTION
(Looking Upstation)



SUPERELEVATION DIAGRAM

PROFILE GRADE

NOTES:

A colored structural concrete coating finish is required, as shown on the Plans, on all exposed concrete surfaces including piers, abutments, and wingwalls. Color numbers correspond to paint numbers as described by Diamond Vogel Paints. Coating shall extend to 1'-0" below ground surface.

(1) #8513 (Superstructure)

(2) #8515 (Banner Background)

(3) #8513 (Column)

(4) #8511 (Mountains)

COLORADO REGISTERED PROFESSIONAL ENGINEER
Andrew Michael Leifheit
36797
9/10/08

APPROVED FOR CONSTRUCTION
9/12/08
Date

FINAL DESIGN DOCUMENTS - 9/10/08

Quantities			Detail			Design		
	INITIAL	DATE		INITIAL	DATE		INITIAL	DATE
Quantities By	AML	08/08	Detailed By	RGA	08/08	Designed By	AML	08/08
Checked By	GWK	08/08	Checked By	GWK	08/08	Checked By	GWK	08/08

Print Date: 9/10/2008
File Name: 16042AG_TypSection_01.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information 0221 Unit Leader STW

SEMA CONSTRUCTION
WILSON & COMPANY

Sheet Revisions		
Date:	Comments	Init.

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Region 5 EJA

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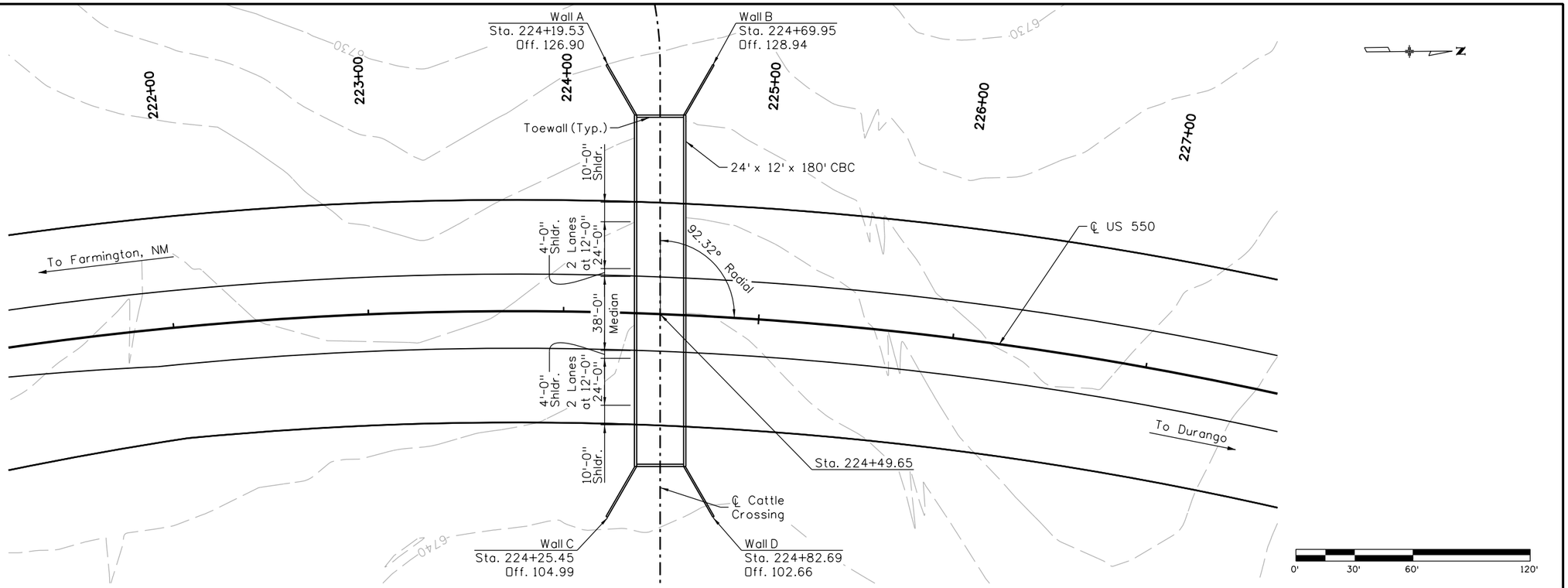
Revised:
Void:

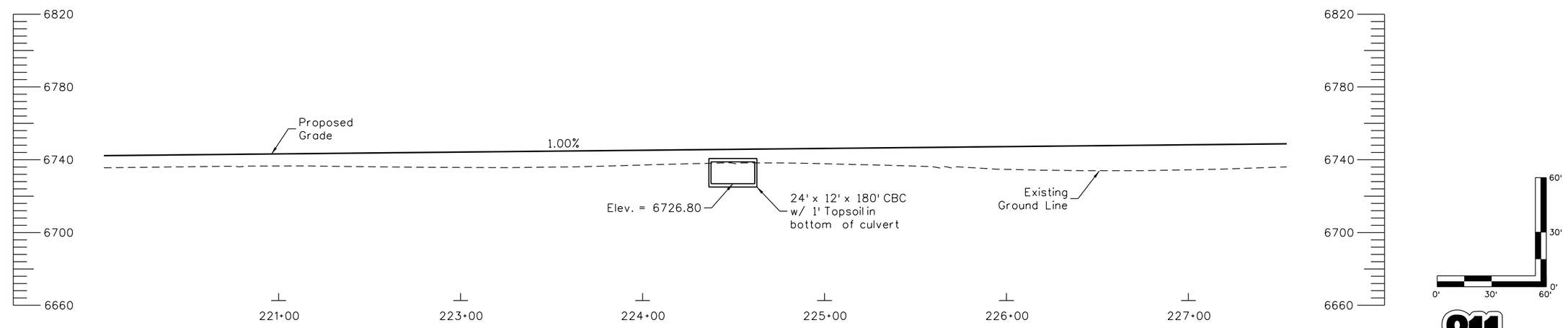
US 550 OVER US 160
TYPICAL SECTION

Designer:	A. Leifheit	Structure Numbers	P-05-AG
Detailer:	R. Artman		
Sheet Subset:	Bridge	Subset Sheets:	B5 of 8

Project No./Code
NH 1602-114
16042
Sheet Number 29



PLAN



SECTION
(Profile Taken Along HCL)

CURVE DATA

Dc =61° 21'14"
Tc =1079.65'
Lc =1948.91'
Rc =1820.00'

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

Design			Detail			Quantities		
	INITIAL	DATE		INITIAL	DATE		INITIAL	DATE
Designed By	XXX	MM/YY	Detailed By	XXX	MM/YY	Quantities By	XXX	MM/YY
Checked By	XXX	MM/YY	Checked By	XXX	MM/YY	Checked By	XXX	MM/YY

Revision Dates (Preliminary Stage Only): MM/YY

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5/14/2014

Print Date: 5/14/2014
File Name: 06-19378_RGM Align_US550 over CBC.dgn
Horiz. Scale: 1:60 Vert. Scale: As Noted
Unit Information Unit Leader Initials

amec MULLER

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
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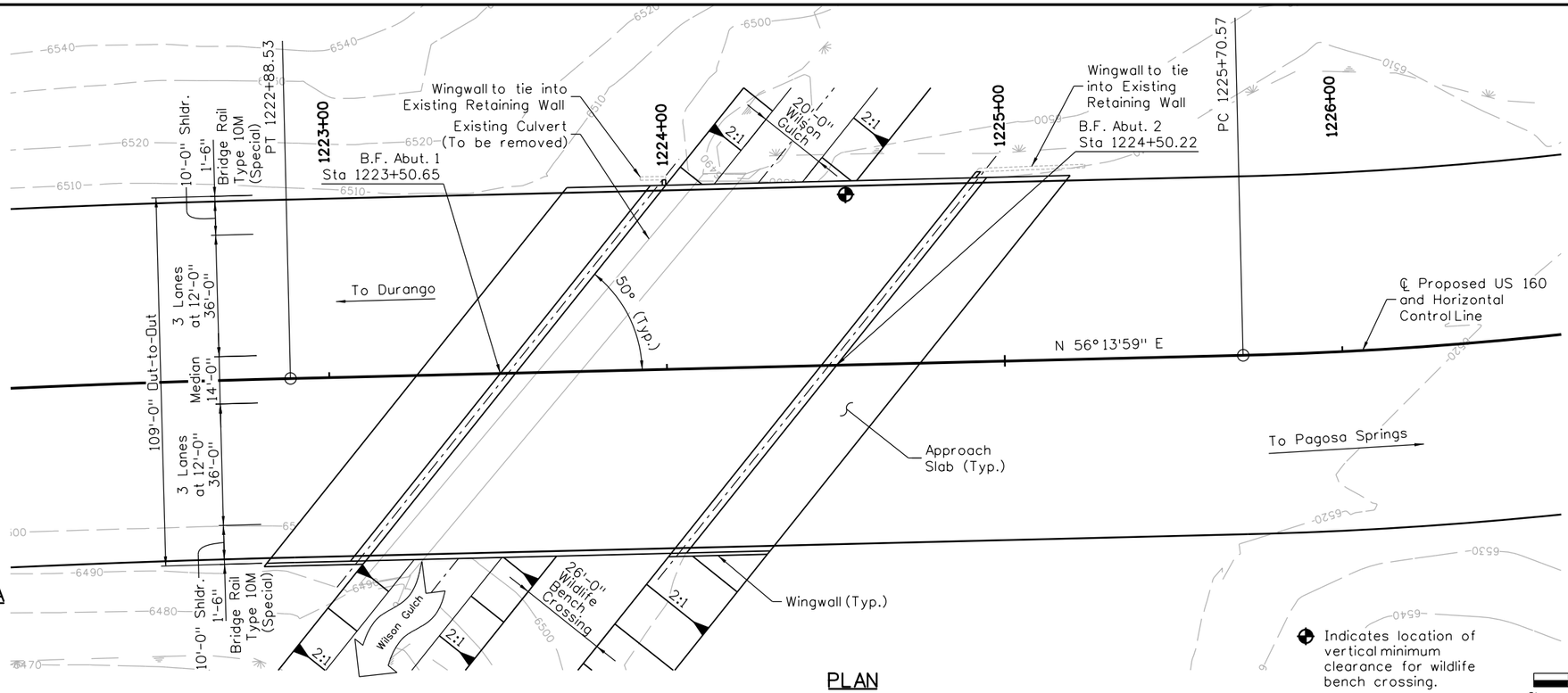
Region 5

As Constructed
No Revisions:
Revised:
Void:

RGM
US 550 OVER CATTLE CROSSING
PLAN AND PROFILE

Designer: D. Barr
Detailer: M. Crater
Sheet Subset: Bridge
Structure Numbers:
Subset Sheets: B6 of 8

Project No./Code: -
19378
Sheet Number 30



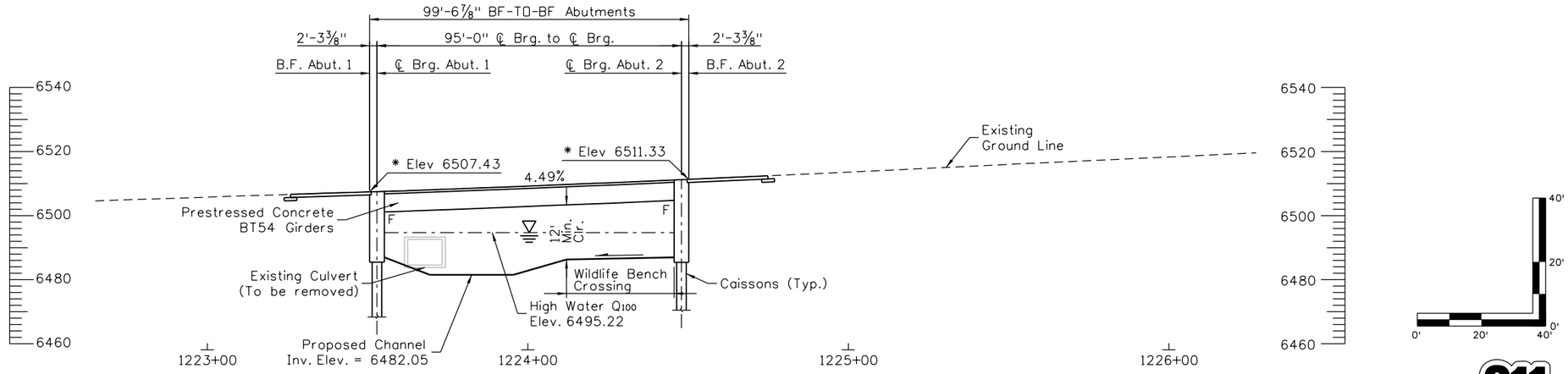
CURVE DATA

Dc =4°51'02"
Tc =164.14'
Lc =328.09'
Rc =3875.42'

CURVE DATA

Dc =37°27'39"
Tc =390.47'
Lc =752.92'
Rc =1151.57'

PLAN



SECTION

(Profile Taken Along HCL)
* Finished Profile Grade Elevations (Top of HMA)

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

Design			Detail			Quantities		
	INITIAL	DATE		INITIAL	DATE		INITIAL	DATE
Designed By	XXX	MM/YY	Detailed By	XXX	MM/YY	Quantities By	XXX	MM/YY
Checked By	XXX	MM/YY	Checked By	XXX	MM/YY	Checked By	XXX	MM/YY

Revision Dates (Preliminary Stage Only)
MM/YY

Print Date: 5/14/2014
File Name: 07-19378_US160 over Wilson Gulch_PnP.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted
Unit Information Unit Leader Initials

amec MULLER

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
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Durango, CO 81301
Phone: 970-385-1440 FAX: 970-385-8365
Region 5

As Constructed
No Revisions:
Revised:
Void:

RGM
US160 OVER WILSON GULCH
PLAN & PROFILE

Designer:	D. Barr	Structure Numbers	
Detailer:	M. Crater		
Sheet Subset:	Bridge	Subset Sheets:	B7 of 8

Project No./Code	
-	
19378	
Sheet Number	31

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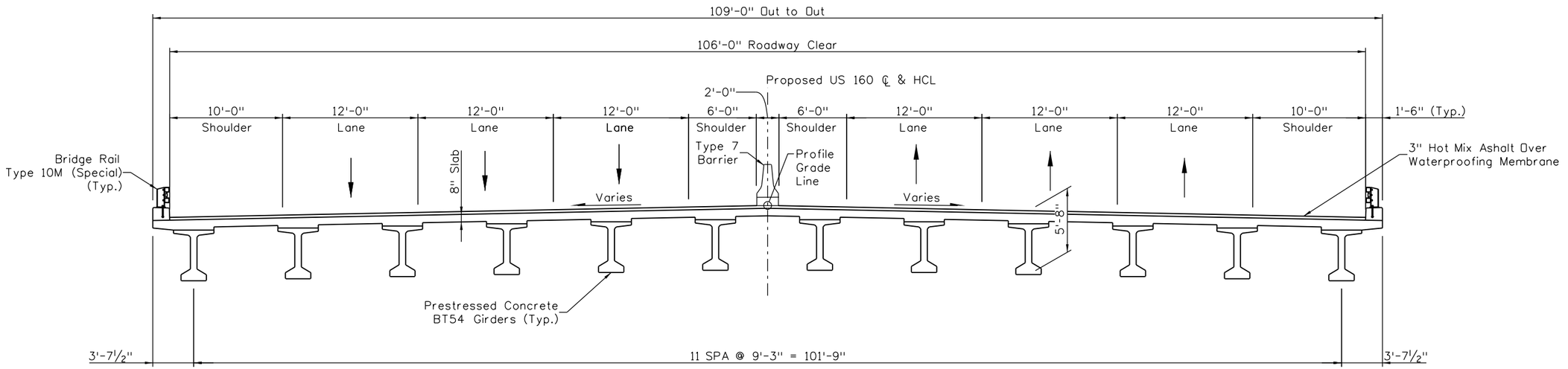
mark.crater 3:51:57 PM 5/14/2014



TYPICAL SECTION

Scale: 1"=10'

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

Design	INITIAL	DATE
Designed By	XXX	MM/YY
Checked By	XXX	MM/YY

Detail	INITIAL	DATE
Detailed By	XXX	MM/YY
Checked By	XXX	MM/YY

Quantities	INITIAL	DATE
Quantities By	XXX	MM/YY
Checked By	XXX	MM/YY

Revision Dates (Preliminary Stage Only)
MM/YY

Print Date: 5/14/2014
File Name: 08-19378_US160 over Wilson Gulch_Typ Sec.dgn
Horiz. Scale: 1:10 Vert. Scale: As Noted
Unit Information Unit Leader Initials

amec MULLER

Sheet Revisions		
Date:	Comments	Init.

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Region 5

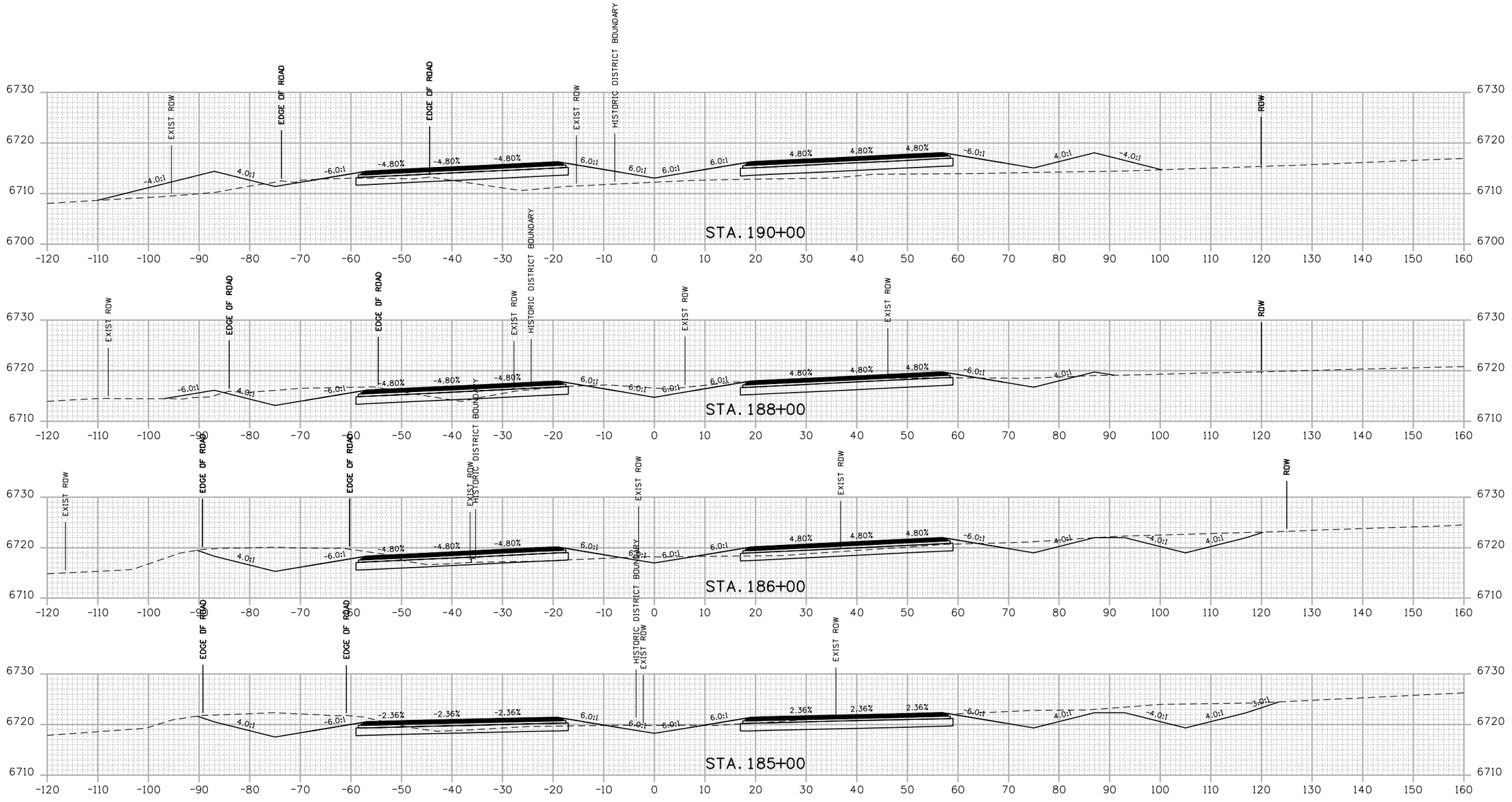
As Constructed
No Revisions:
Revised:
Void:

RGM
US160 OVER WILSON GULCH
TYPICAL SECTION

Designer: D. Barr
Detailer: M. Crater
Sheet Subset: Bridge
Structure Numbers:
Subset Sheets: B8 of 8

Project No./Code
-
19378
Sheet Number 32

mark.crater 3:51:58 PM P:\Project\Transportation\CDOT R5\2013 CDOT R5 US 550 SEIS Alternatives\9.0 CADD\9.1 Bridge\Drawings\Working\RGM_Alignment\08-19378_US160 over Wilson Gulch_Typ Sec.dgn
5/14/2014



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File Name: 19378DES_RGM_CrossSections.dgn
Horiz. Scale: 1:20 Vert. Scale: As Noted
Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
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Region 5

As Constructed
No Revisions:
Revised:
Void:

US 550 RGM
CROSS SECTIONS

Designer:	ACC	Structure Numbers	
Detailer:	MAW		
Sheet Subset:	XSEC	Subset Sheets:	1 of 17

Project No./Code
-
19378
Sheet Number 33

Mar 9:14:41 AM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Design\Drawings\Cross_Sections\19378DES_RGM_CrossSections.dgn
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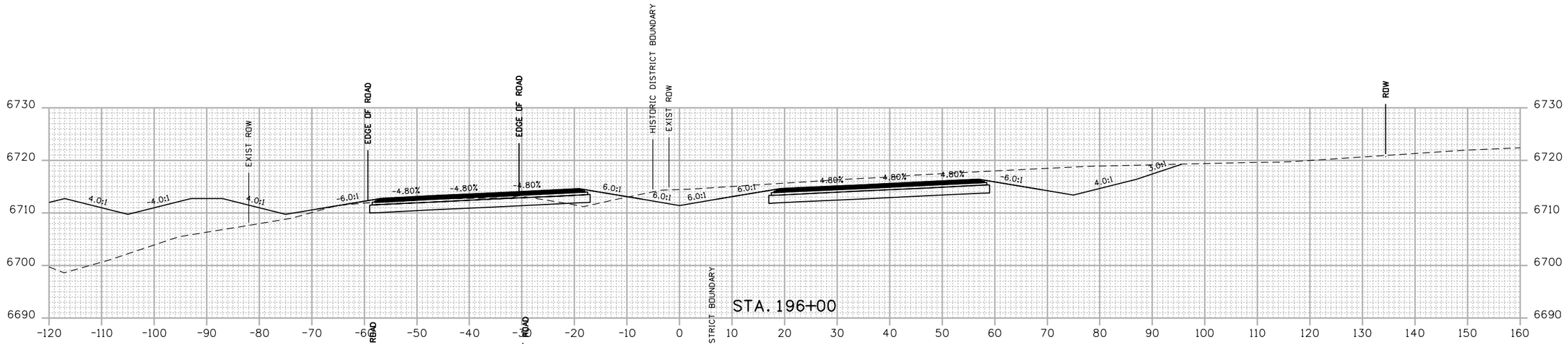

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Horiz. Scale: 1:20 Vert. Scale: As Noted				Phone: 970-385-1440 FAX: 970-385-8365	Revised:	Detailer: MAW
Unit Information Unit Leader Initials				Region 5	Void:	Sheet Subset: XSEC
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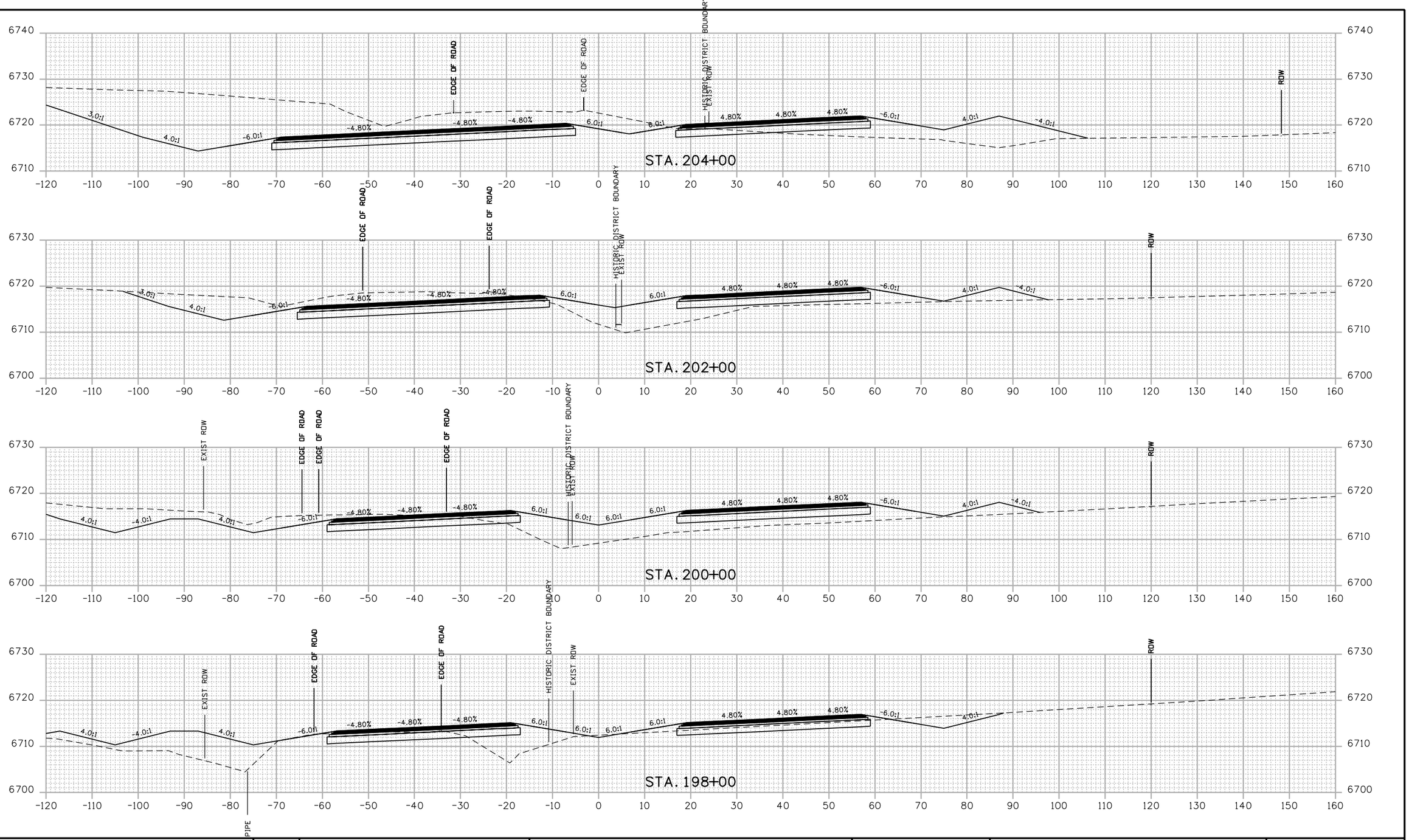
						Project No./Code: -
						19378
						Sheet Number 34

Mar 9 9:14:42 AM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Design\Drawings\Cross_Sections\19378DES_RGM_CrossSections.dgn
5/15/2014 CDOT-DefaultPrinter_V8i.pltcfg CDOT-PenTable V8i-revised.tbl



Print Date: 5/15/2014		Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 19378DES_RGM_CrossSections.dgn		Date:	Comments	Init.	3803 North Main Avenue Suite 200 Durango, CO 81301 Phone: 970-385-1440 FAX: 970-385-8365	No Revisions:
Horiz. Scale: 1:20 Vert. Scale: As Noted					Region 5	Revised:
Unit Information Unit Leader Initials						Void:

US 550 RGM CROSS SECTIONS				Project No./Code
Designer: ACC	Structure Numbers			-
Detailer: MAW				19378
Sheet Subset: XSEC	Subset Sheets:	3 of 17		Sheet Number

Mar 9:14:43 AM P:\13-034.01 US 550 South Connection SEIS Alternative Analysis\19378\Design\Drawings\Cross_Sections\19378DES_RGM_CrossSections.dgn
5/15/2014 CDOT-DefaultPrinter_V8i.pltcfg CDOT-PenTable V8i-revised.tbl

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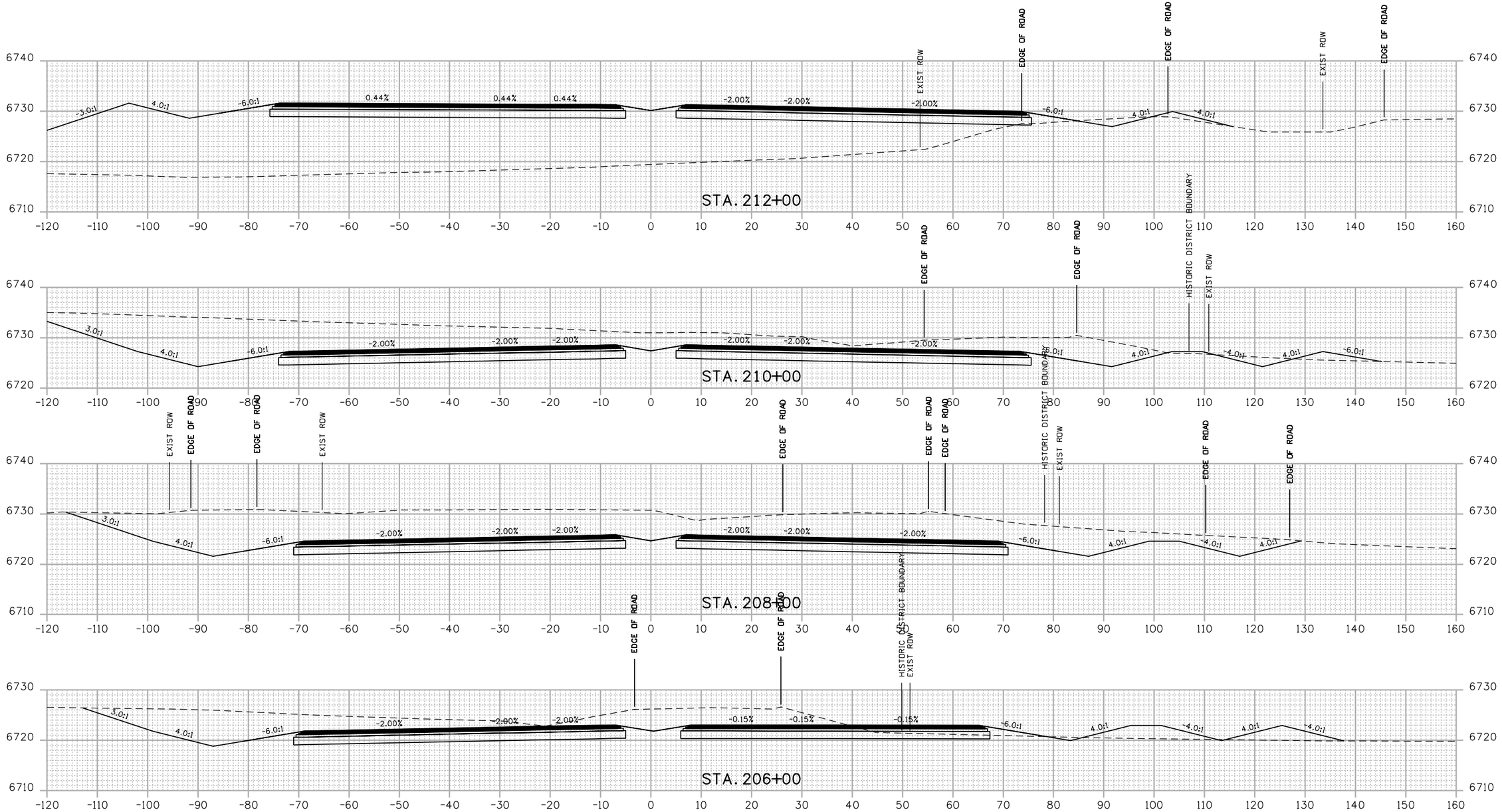

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Horiz. Scale: 1:20 Vert. Scale: As Noted				DEPARTMENT OF TRANSPORTATION	Revised:	Detailer: MAW
Unit Information Unit Leader Initials				Region 5	Void:	Sheet Subset: XSEC
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						19378
						Sheet Number 36

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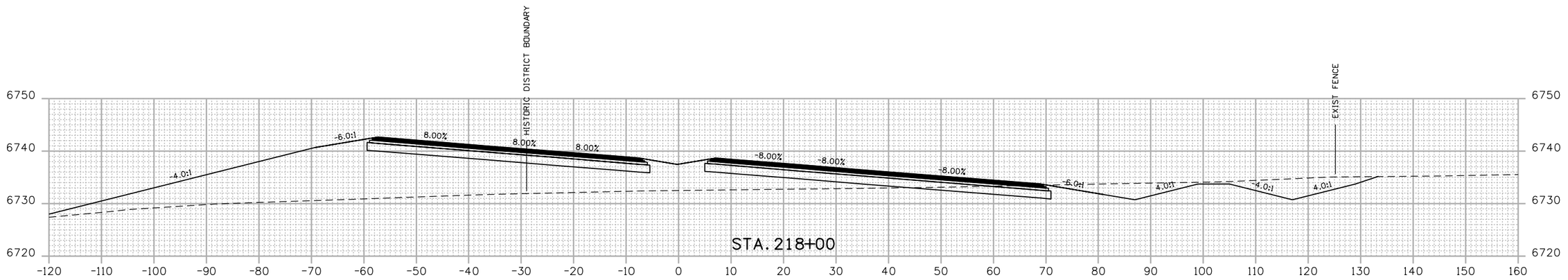

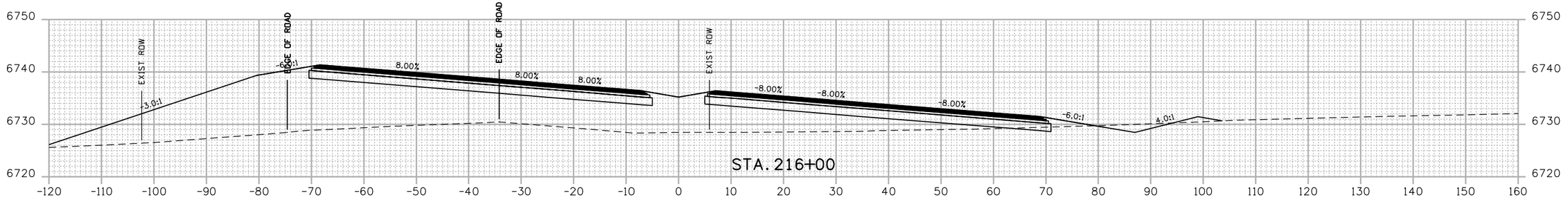

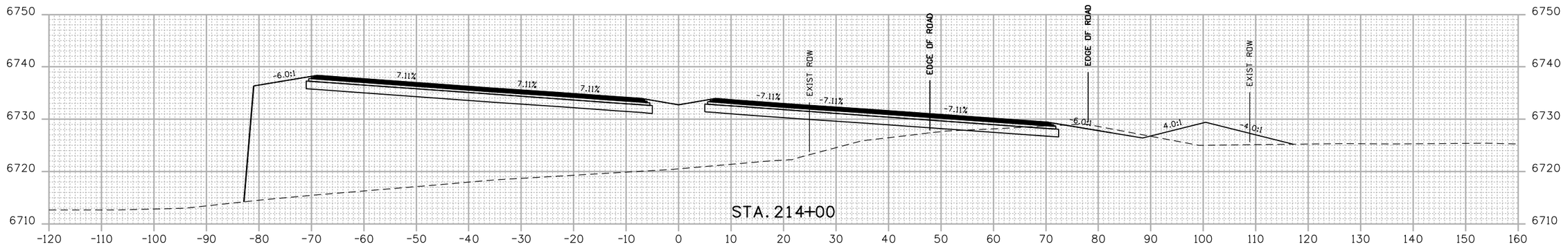

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Print Date: 5/15/2014
File Name: 19378DES_RGM_CrossSections.dgn
Horiz. Scale: 1:20 Vert. Scale: As Noted
Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
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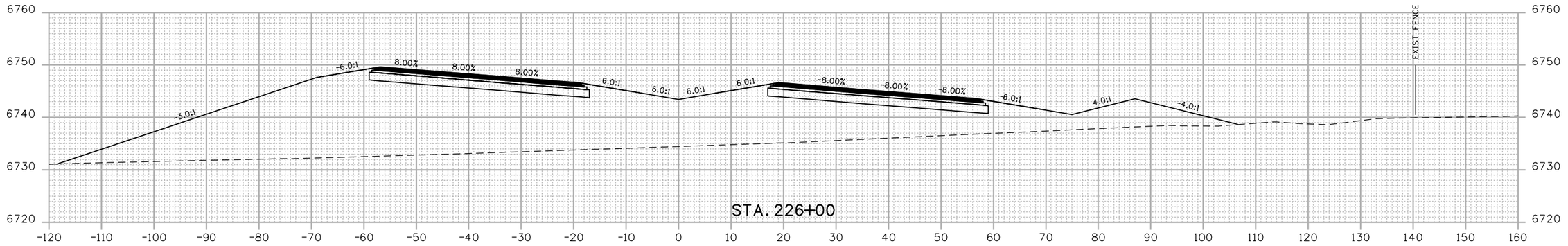
Phone: 970-385-1440 FAX: 970-385-8365
Region 5

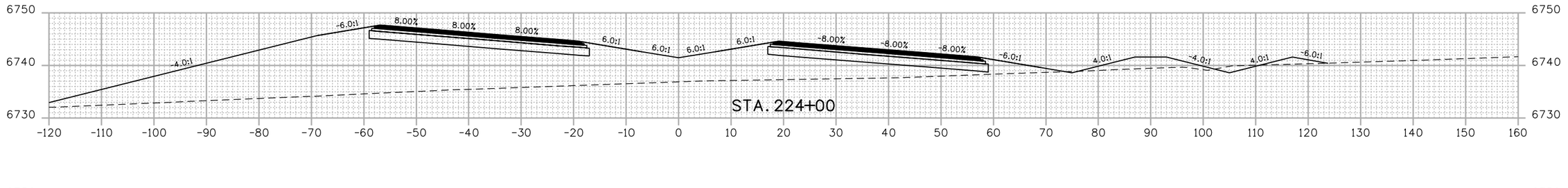
As Constructed
No Revisions:
Revised:
Void:

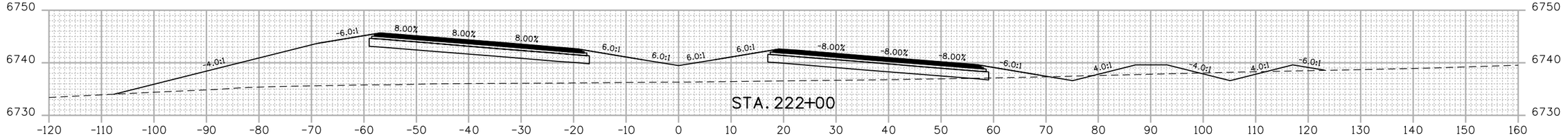
US 550 RGM
CROSS SECTIONS

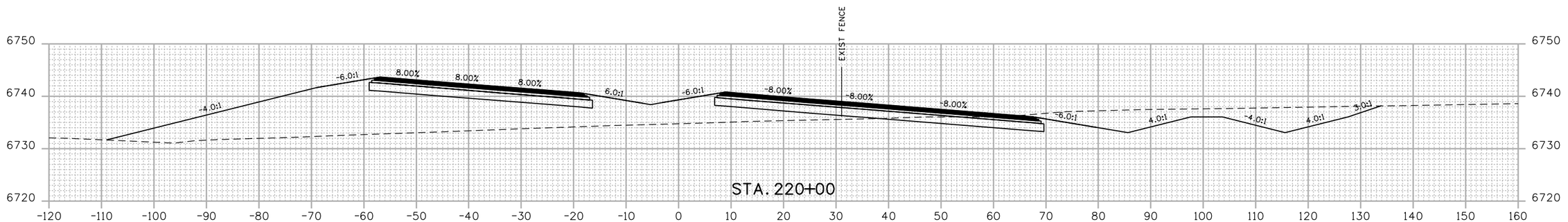
Designer: ACC
Detailer: MAW
Sheet Subset: XSEC
Structure Numbers:
Subset Sheets: 5 of 17

Project No./Code
-
19378
Sheet Number 37









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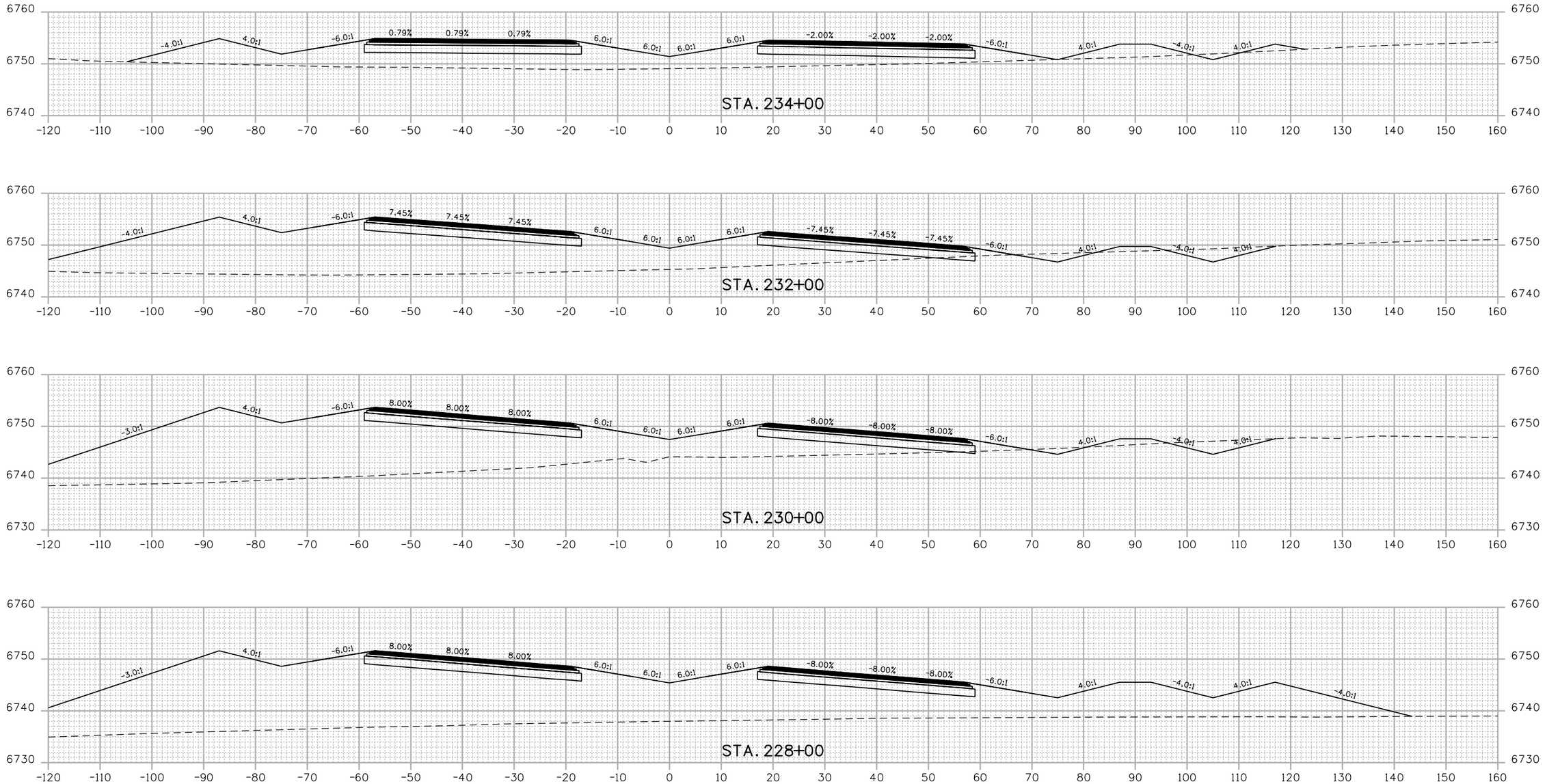

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Designer: ACC	Structure Numbers			19378
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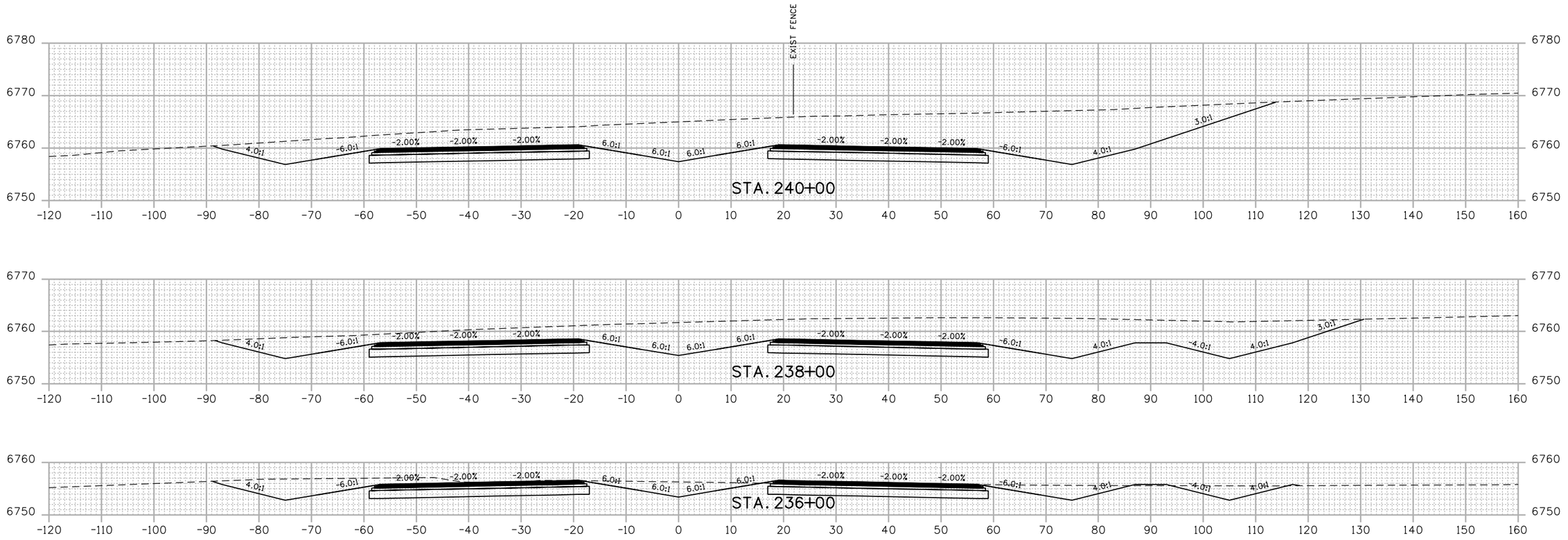

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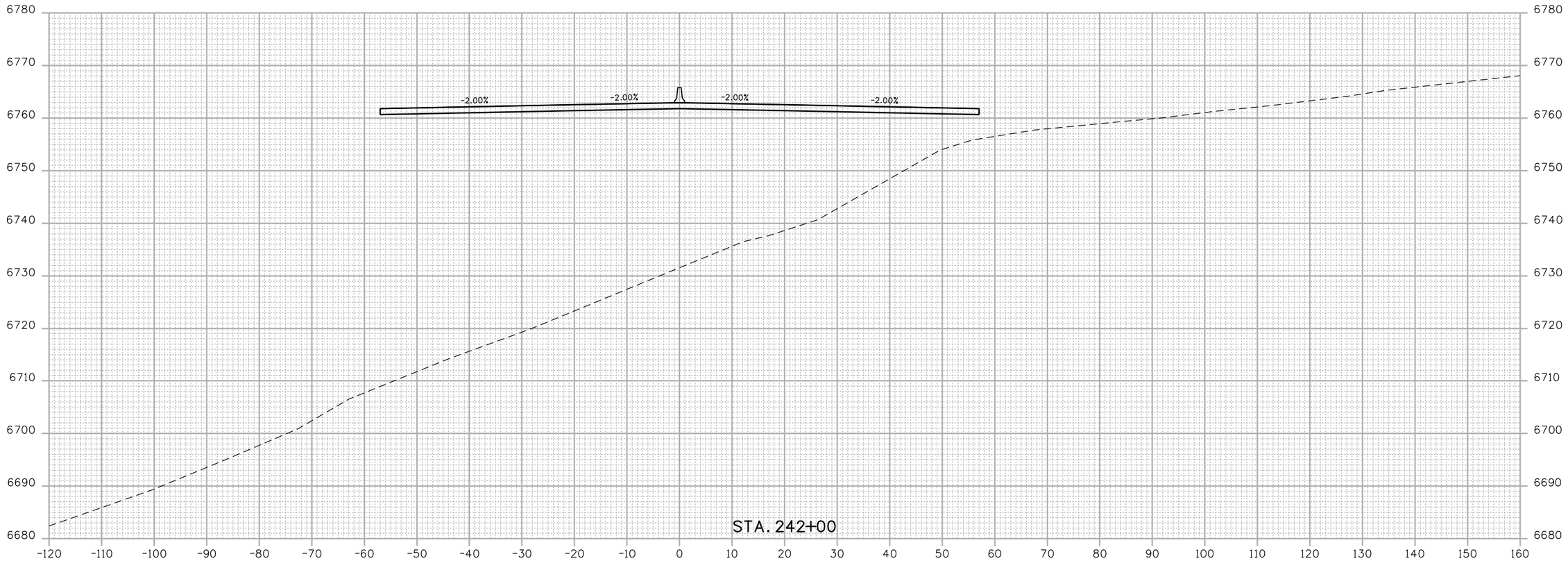

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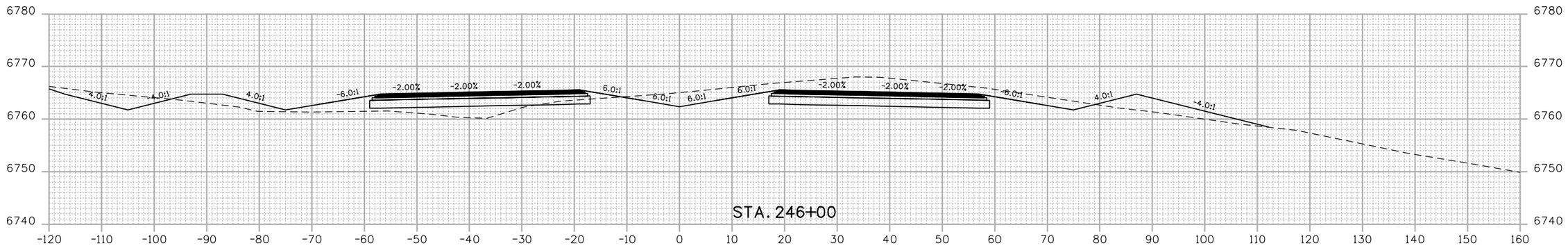

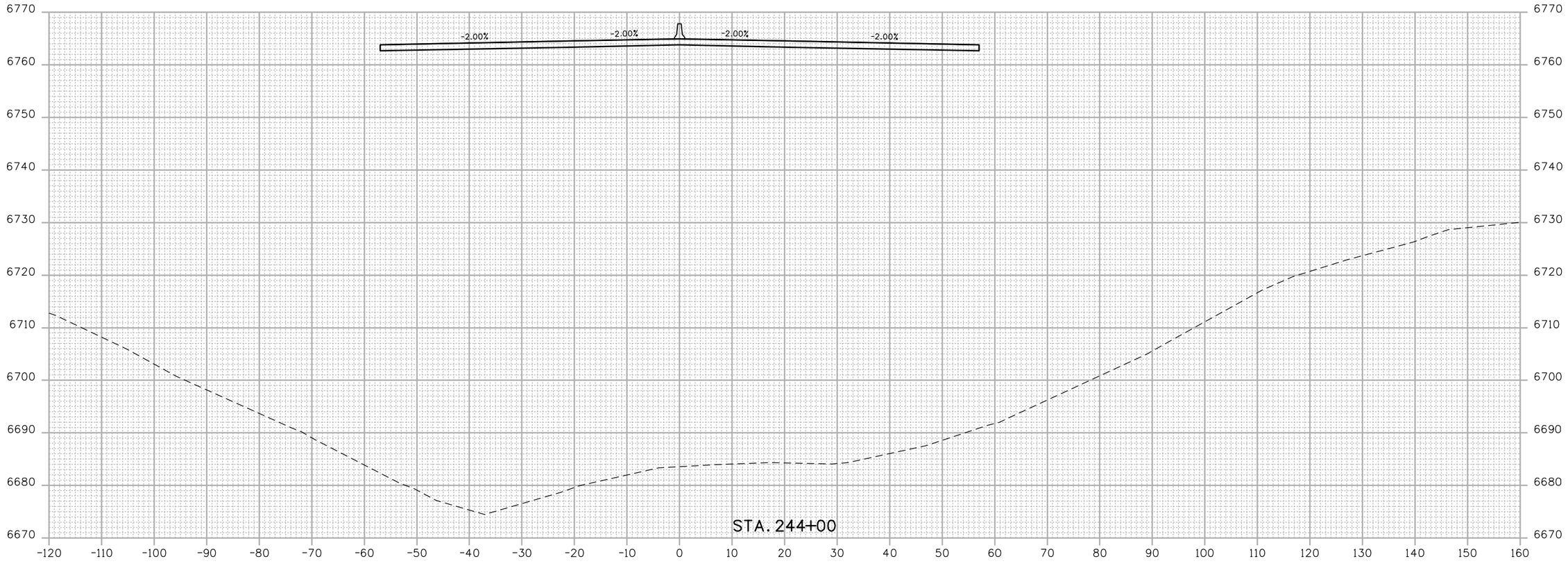

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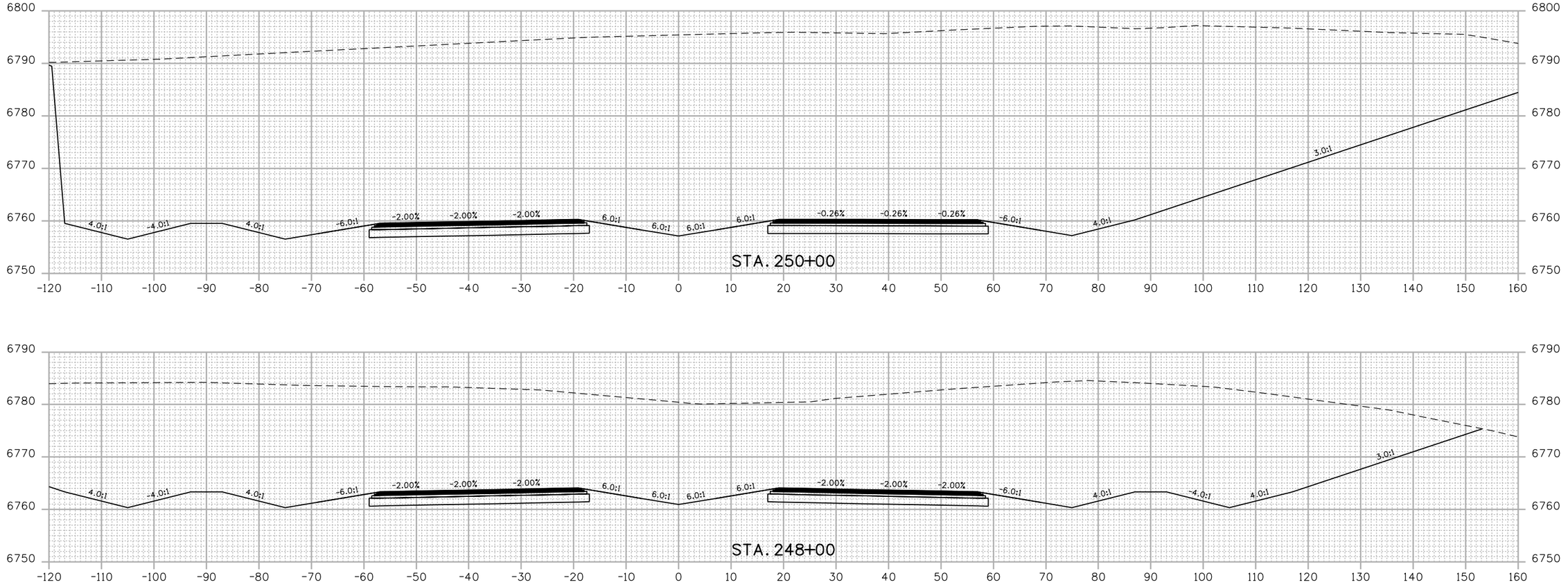

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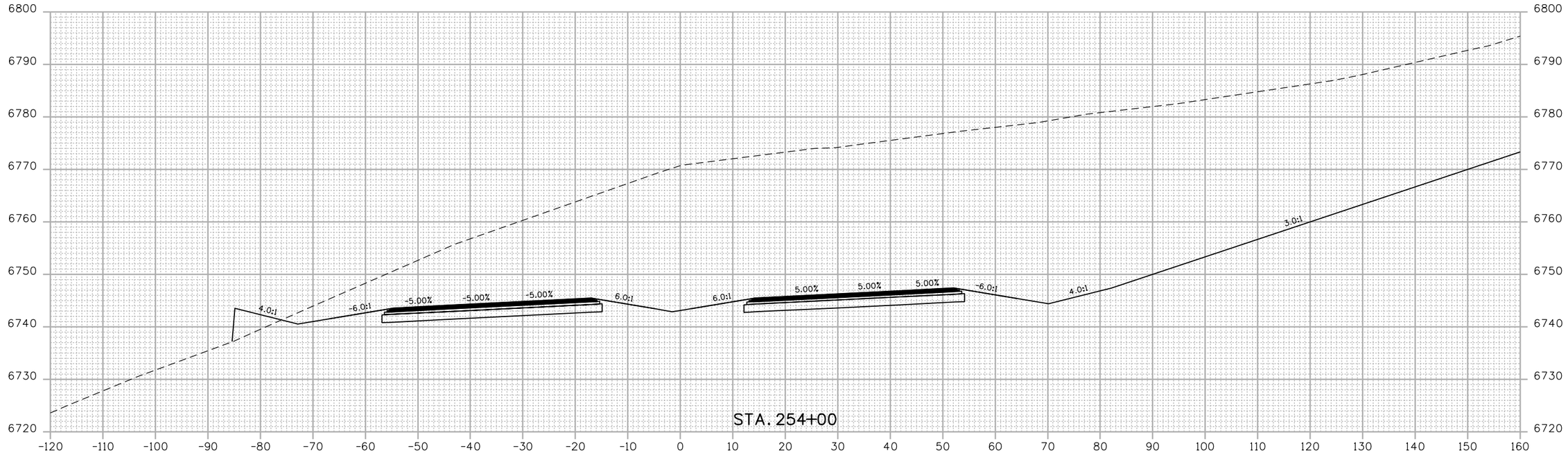

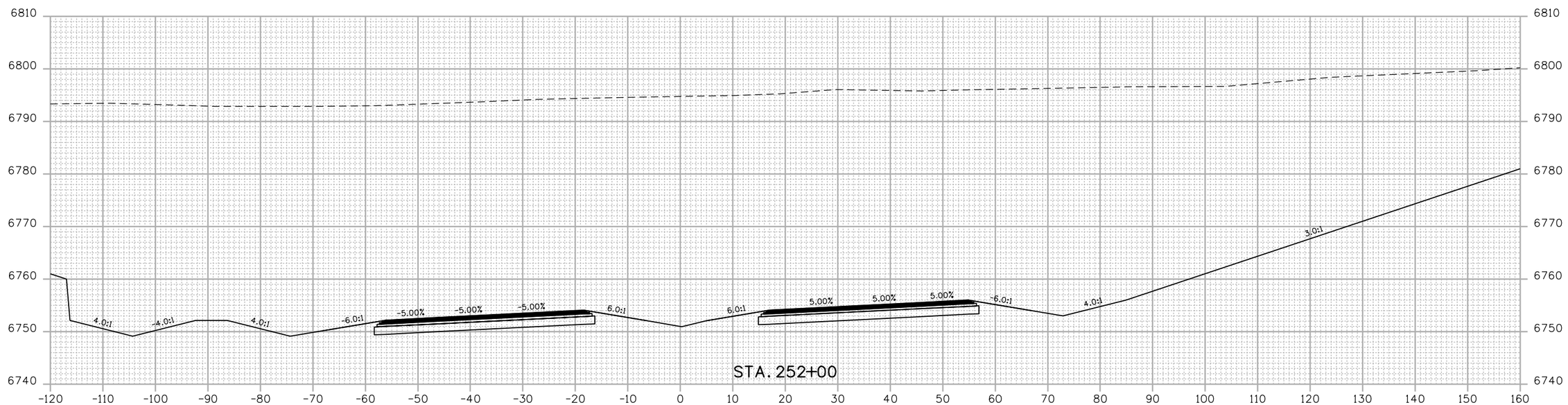

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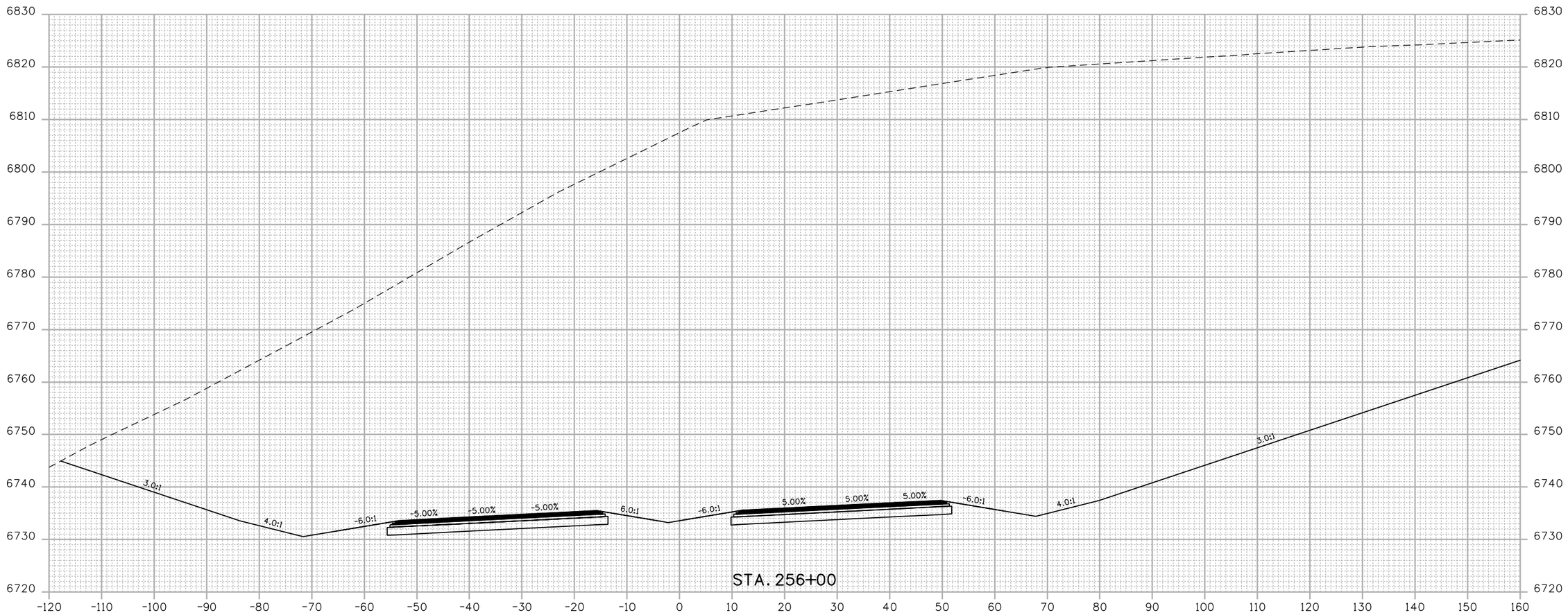

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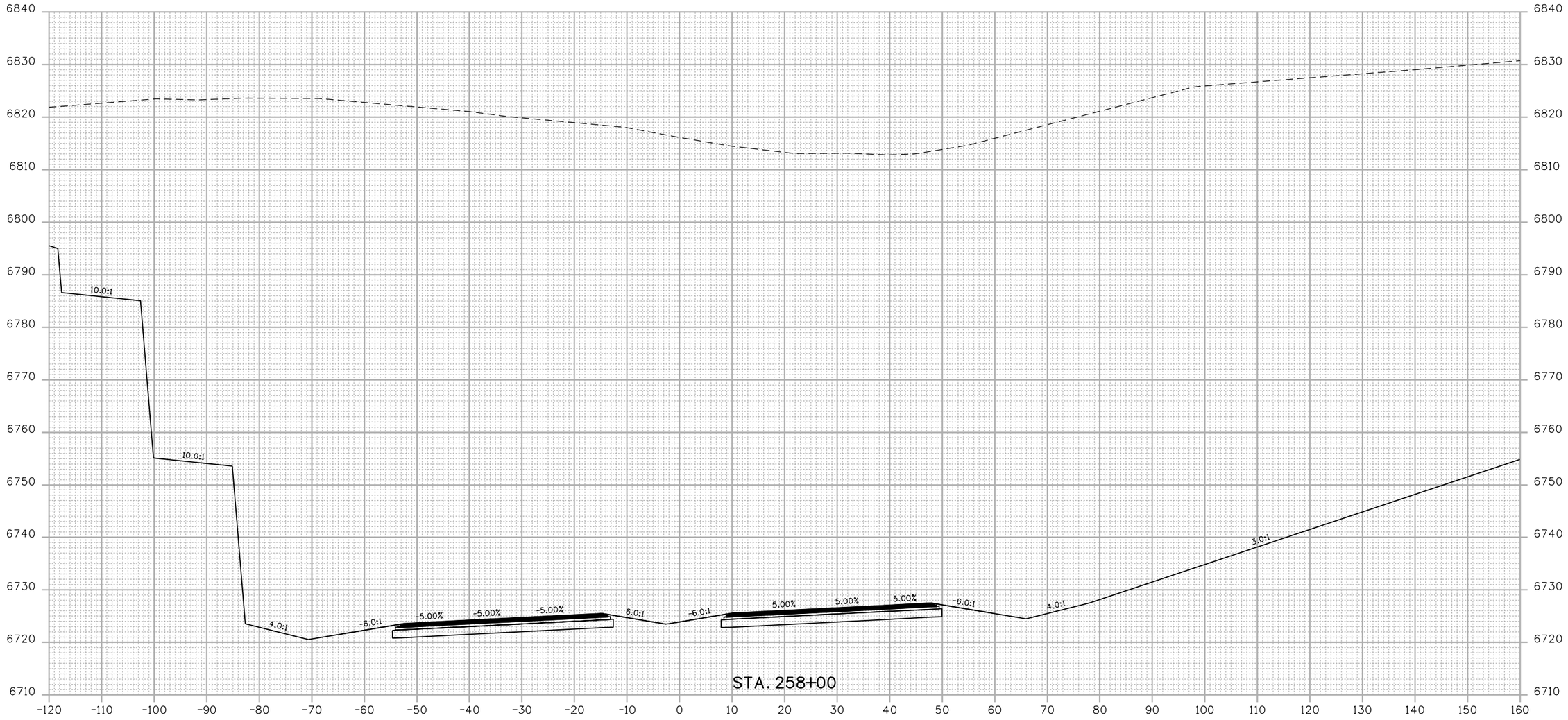

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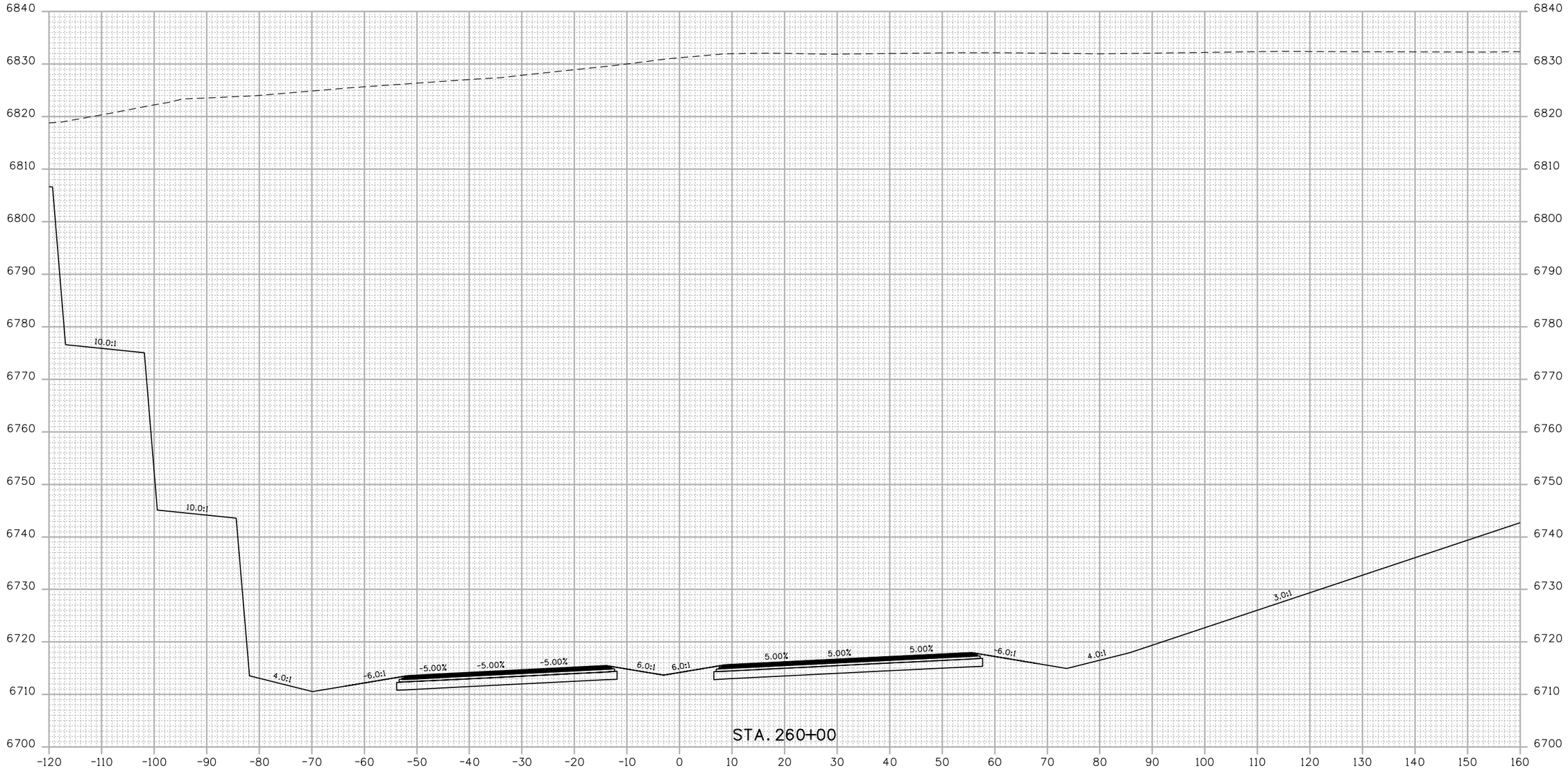

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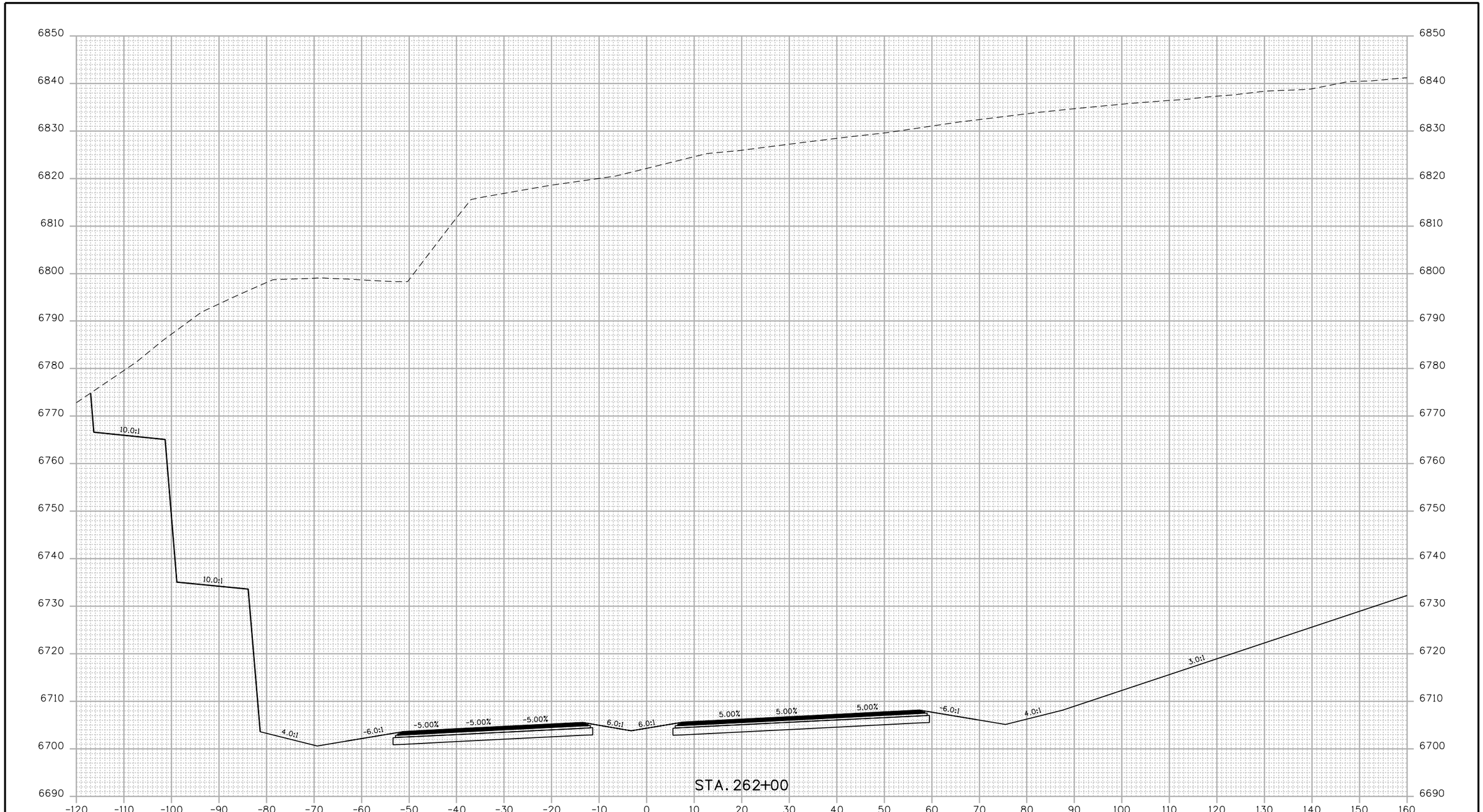

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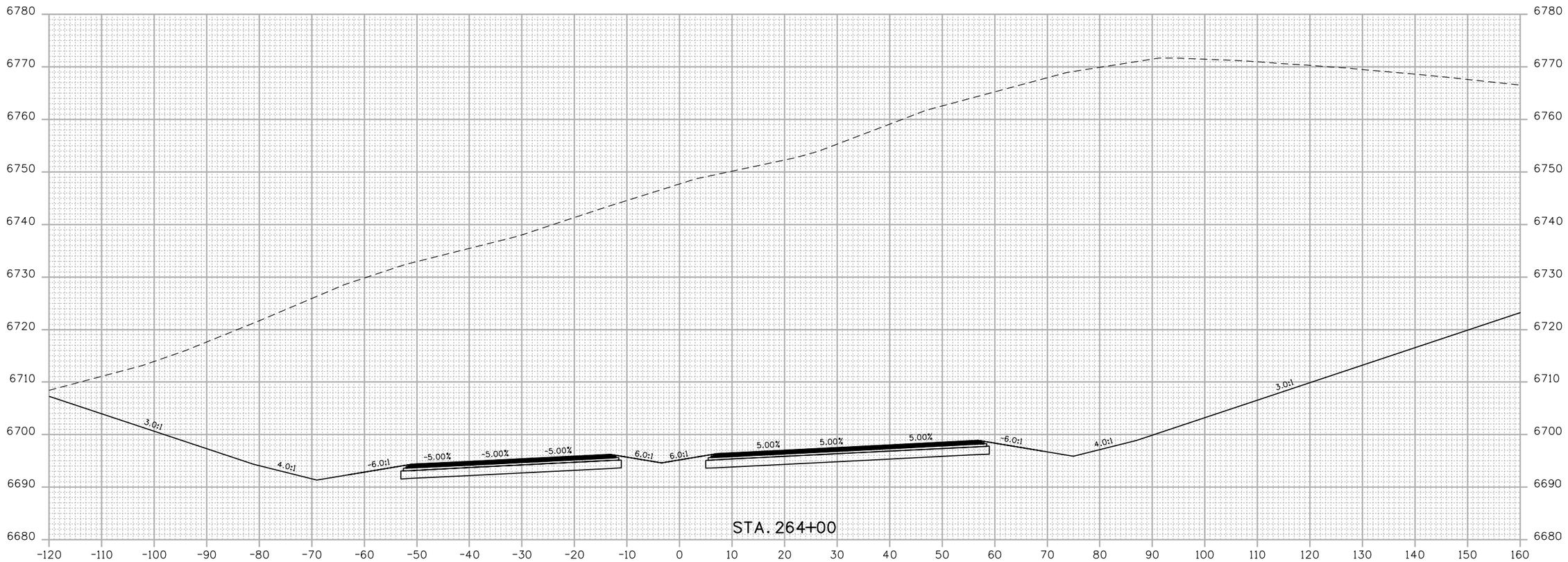

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Horiz. Scale: 1:20 Vert. Scale: As Noted					Region 5	Revised:	Detailer: MAW	19378
Unit Information Unit Leader Initials						Void:	Sheet Subset: XSEC	Sheet Number 49
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