

IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE: Right of Way **DATE:** February 15, 2013

ATTENTION: M. J. Sankey **REF. :** Woodbury County

FROM: Yan Jia **Proj. #:** STPN-031-1(32)--2J-97

OFFICE: Design **ROW#:** STPN-031-1(33)--2J-97

SUBJECT: Right of Way Submittal (D5) **PIN:** 97-97-020-010-03

This project involves the relocation and construction of IA 31 at the town of Correctionville. Traffic will be maintained via road closure with detour.

Access rights are to be acquired on this project from Sta. 2164+55.29 to Sta. 2200+05.87.

The project directory is W:\Projects\9703101010\Design. No printed plan sheets are included with this submittal. PDF files of the sheets can be found on the network in the W:\Projects\9703101010\Design\Design Events\D5 folder. Plans and cross section files have been sheeted for batch plotting. The file, Project Documentation.xls has a description of the MicroStation and GEOPAK files, chains and profiles. It also specifies the scale and number of sheets in each file.

Construction need lines required for this project are at the catch (intercept) point and have been added to the design file. The Office of ROW is advised to attach the following design models:

File	Model	Level	Need Type
97031032.dsn	Road_Design_Line_Work	dsnGroundlineIntercept	Permanent

Culverts were completed (B2) on 11/15/12. It is shown on "brgPreStructureNew" in plan view and referenced in to the design file as 97031032.str from the "BRPrelim" folder and also drawn on the cross sections.

Earthwork borrow needs on this project will be obtained via Contractor-furnished borrow.

No special mitigation areas are required for this project.

Utilities on this project are as follows: Century Link (fiber optic), Comserv Ltd. (cable TV), City of Correctionville (water), Iowa Network Services (fiber optic), Knology (fiber optic), MidAmerican Energy Company (electric distribution), and Schaller Telephone Company (telephone).

The current letting date is February 17, 2015.

You may indicate your acceptance or request additional information by e-mail.

YJ:RRM:mk

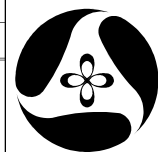
Attach.

cc: M. J. Kennerly	N. L. McDonald
K. D. Nicholson	G. A. Novey
D. L. Maifield	D. R. Claman
R. L. Stanley	J. P. Rost
S. C. Marler	B. Hofer
E. J. Ranney	L. C. Funnell
D. A. Widick	T. L. Gettings
S. J. Gent	M. A. Swenson
T. Crouch	J. W. Smith
E. C. Wright	D. A. Popp
J. N. McCollough	B. Bradley
J. Vortherms	W. Sorenson
T. Lazarowicz	S. Tymkowicz
D. Manley	

WOODBURY CO. PCC PAVEMENT - GRADE AND NEW STPN-031-1(32)--2J-97

LETTING DATE
2-17-2015

INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 3	Typical Cross Sections and Details
C Sheets	Quantities and General Information
C.1	Points of Access Tabulation
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 4	IA 31
E Sheets	Side Road Plan and Profile Sheets
* E.1 - 3	5th St/Park Entrance, 7th St, Sioux Ave.
G Sheets	Survey Sheets
G.1 - 3	Reference Ties and Bench Marks
G.4 - 10	Horizontal Control Tab. & Super for all Alignments
W Sheets	Mainline Cross Sections
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 29	Mainline Cross Sections
X Sheets	Side Road Cross Sections
X.1 - 8	Side Road Cross Sections - 5th St/Park Entrance
X.9 - 10	Side Road Cross Sections - 7th St
X.11	Side Road Cross Sections - Sioux Ave.
* Color Plan Sheets	



Iowa Department of Transportation
Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
WOODBURY COUNTY
PCC PAVEMENT - GRADE AND NEW

IA 31 FROM SW OF CORRECTIONVILLE N. TO US 20

SCALES: As Noted

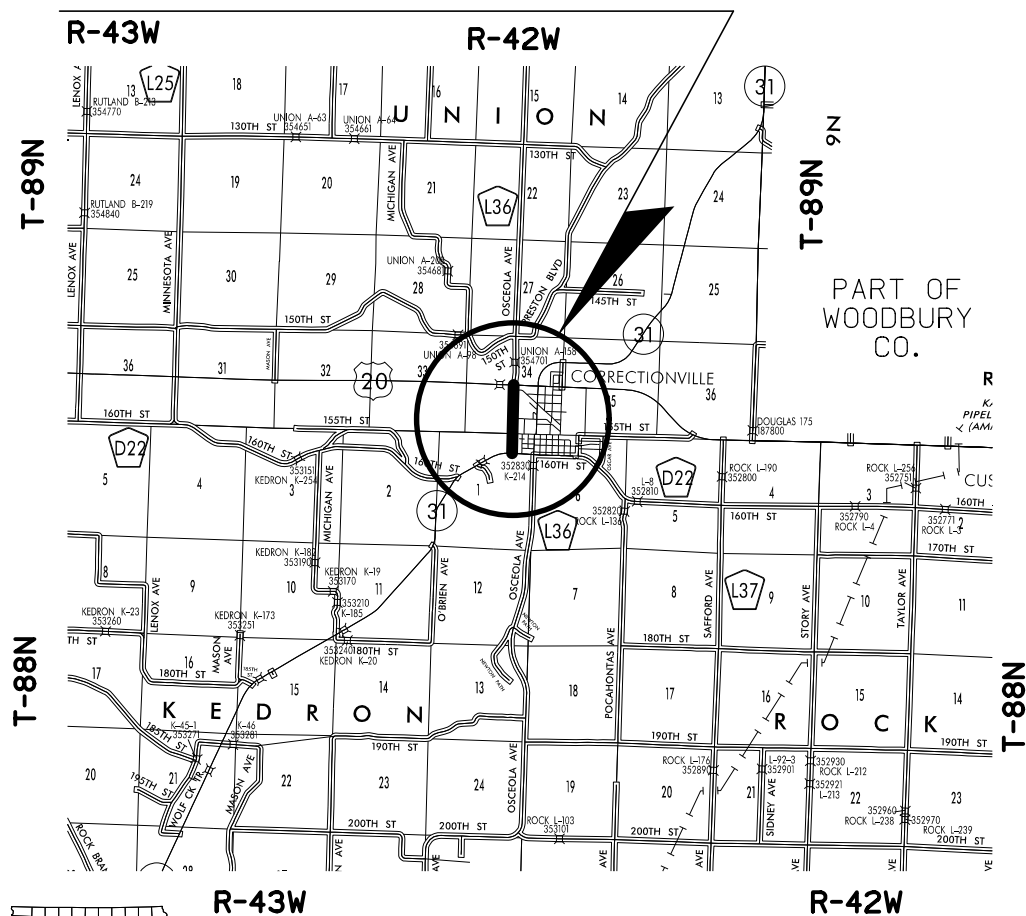
Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

For Mileage Summary
Refer to Sheet A.2

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com

PROJECT LOCATION



For Project Location Map
Refer to Sheet A.2

DESIGN DATA RURAL			
2015 AADT	1,450	V.P.D.	
2035 AADT	1,850	V.P.D.	
2035 DHV	--	V.P.H.	
TRUCKS	21	%	
Total			
Design ESALs	--		

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Yanxiao Jia	Primary Signature Block
X	X	X

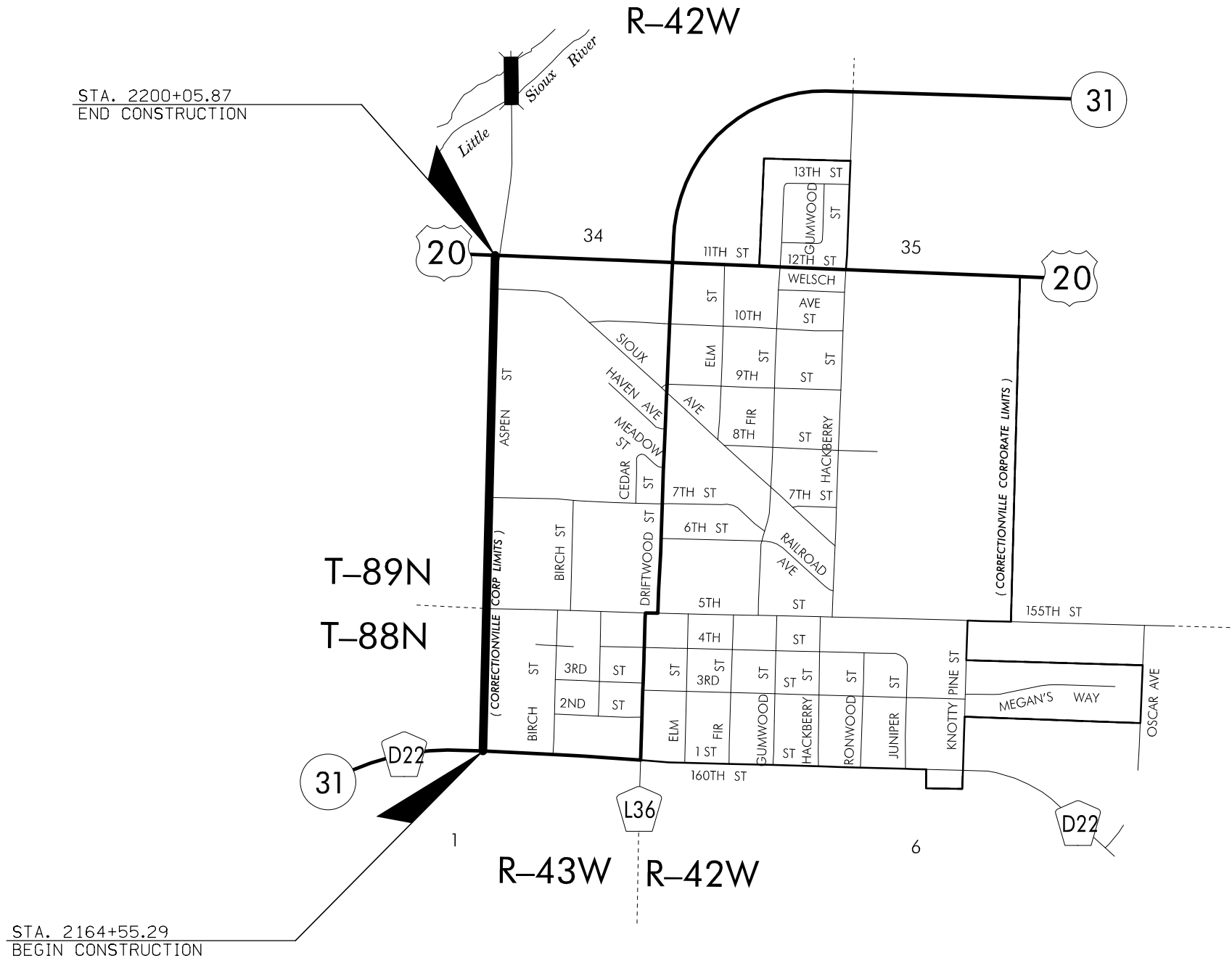
PRELIMINARY PLANS

Subject to change by final design.

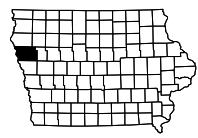
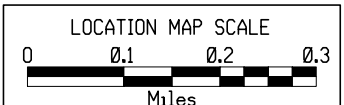
D5 PLAN - Date: 2/15/2013

MILEAGE SUMMARY

Div.	Location	Lin. Ft.	Miles
1	IA 31 Sta. 2164+55.29 to Sta. 2200+05.87	3550.58	
	Total Length of Project	3550.58	0.610



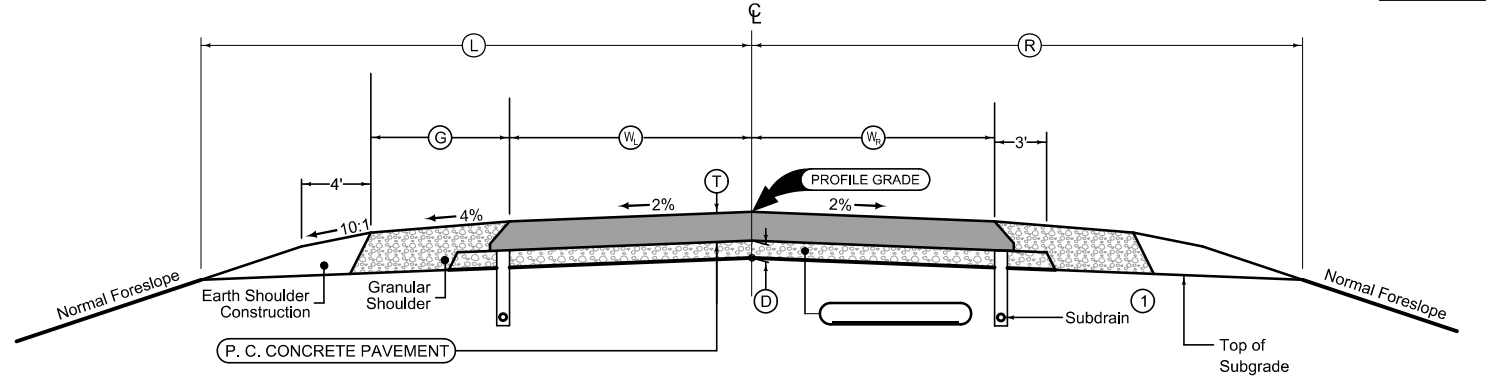
HIGHWAY AND STREET MAP
OF
CORRECTIONVILLE
IOWA



LOCATION			MAINLINE							SHLDR
ROAD IDENTIFICATION	STATION TO STATION		T Inches	D Inches	L Feet	R Feet	W ₁ Feet	W ₂ Feet	G Feet	
IA 31	2164+55.29	2200+05.87	10	12	31.8	31.8	14	14	8	
Sioux Ave.	99+50.50	100+10.00	10	12	28.8	28.8	11	11	8	

Dimensions are symmetrical about the centerline.
 Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as intersections or superelevated curves.
 ① Refer to RF-19C.

2P_G-G
MODIFIED



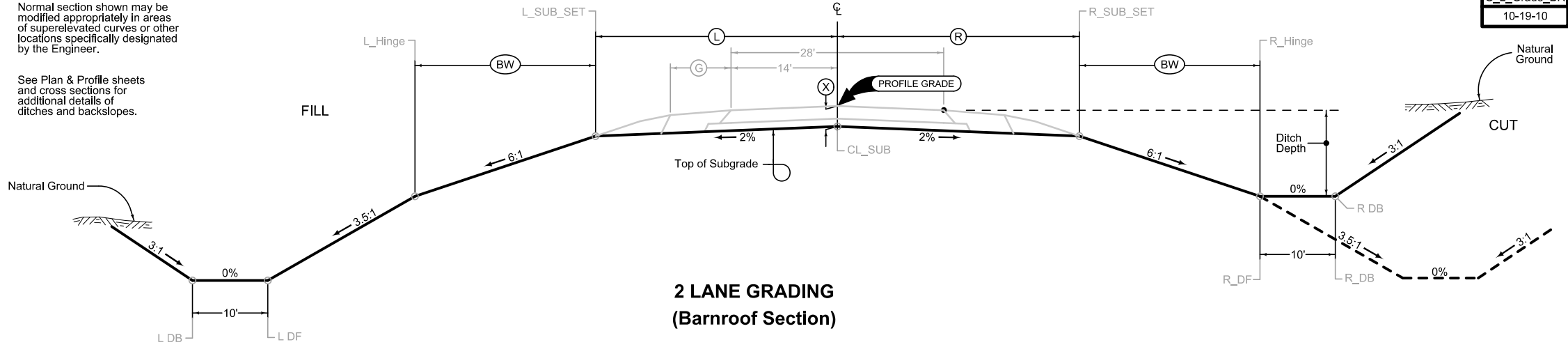
2-LANE PCC PAVING (Granular Shoulders)

Mainline Pavement:
 Transverse joints: CD at 20' spacing
 Longitudinal joint: L-2

LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		L Feet	R Feet	X Inches	BW Feet
IA 31	2164+55.29	2200+05.87	31.8	31.8	22	19.9

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.
 See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.

G_2_Grade_BR
10-19-10

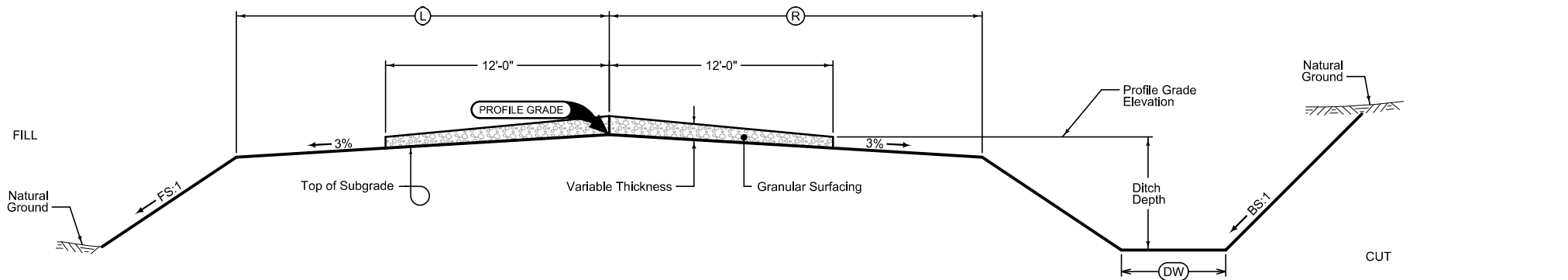


2 LANE GRADING (Barnroof Section)

LOCATION			DIMENSIONS				
ROAD IDENTIFICATION	STATION TO STATION		L Feet	R Feet	FS Feet	BS Feet	DW Feet
5th St.	76+12.38	78+30.00	14	14	3	3	10-0
Park Entrance	66+58.18	75+26.99	14	14	3	3	2
7th St.	84+56.53	85+75.00	14	14	3	3	10-0

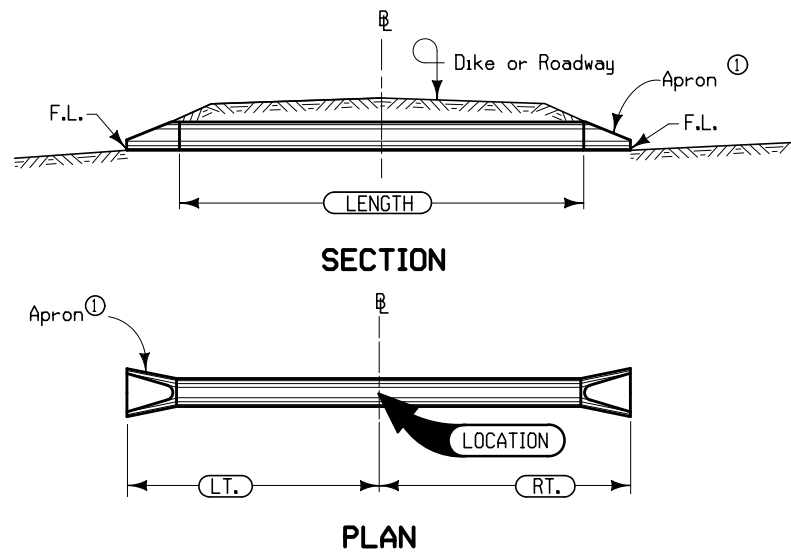
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.
 See plan & profile sheets and cross sections for additional details of ditches and backslopes.
 Place Granular Surfacing as follows:
 Design application rate is 2330 tons per mile.

2_GradeGrn
04-17-12



GRADING AND GRANULAR SURFACING

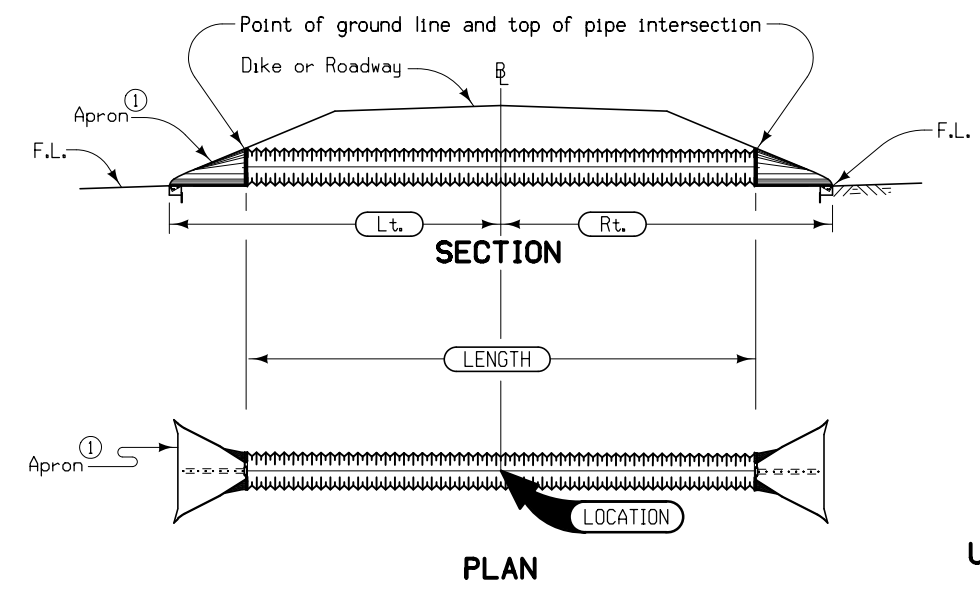
1101
04-30-02



Notes:
 B shall be C of roadway, dike, survey, or other; as detailed on plans.
 Skew angle is the angle which one end of the pipe is ahead (by stationing) of line perpendicular to the B (example skew Rt. ahead 30°).
 Refer to tabular listing and other plans for additional information.
 ① See Standard Road Plan RF-3 For Conc. or RF-5 for Metal.

PIPE CULVERT

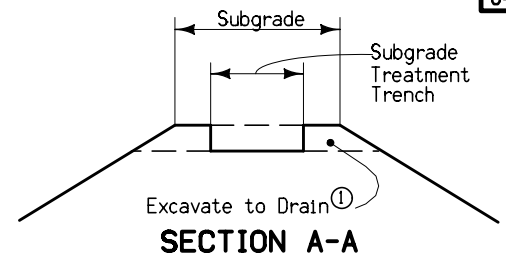
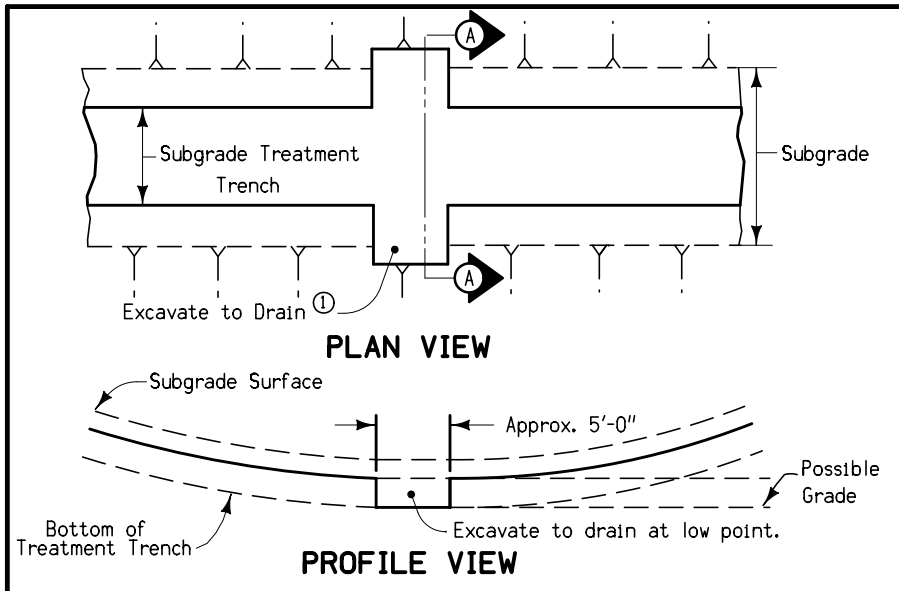
1601
10-16-12



B shall be C of roadway, dike, survey, or other; as detailed on plans.
 Skew angle is the angle which one end of the pipe is ahead (by stationing) of a line perpendicular to the B (example skew Rt. ahead 30 degrees).
 ① See Standard Road Plan RF-3 for Concrete or RF-5 for Metal and Polyethylene.

UNCLASSIFIED PIPE CULVERT

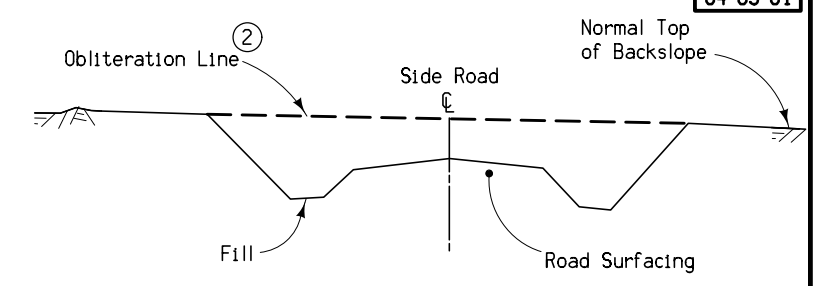
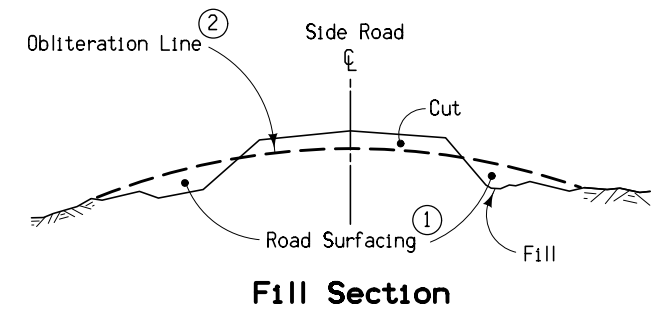
8301
04-20-04



① The contractor shall excavate a portion of subgrade as necessary to provide drainage for the treatment trench. When the subgrade treatment is granular soils, the contractor shall excavate a portion of the subgrade and backfill it with the granular soils every 300 feet.
 This excavation shall be considered incidental.

TYPICAL DETAILS OF DRAIN FOR SUBGRADE TREATMENT TRENCH

4302
04-03-01



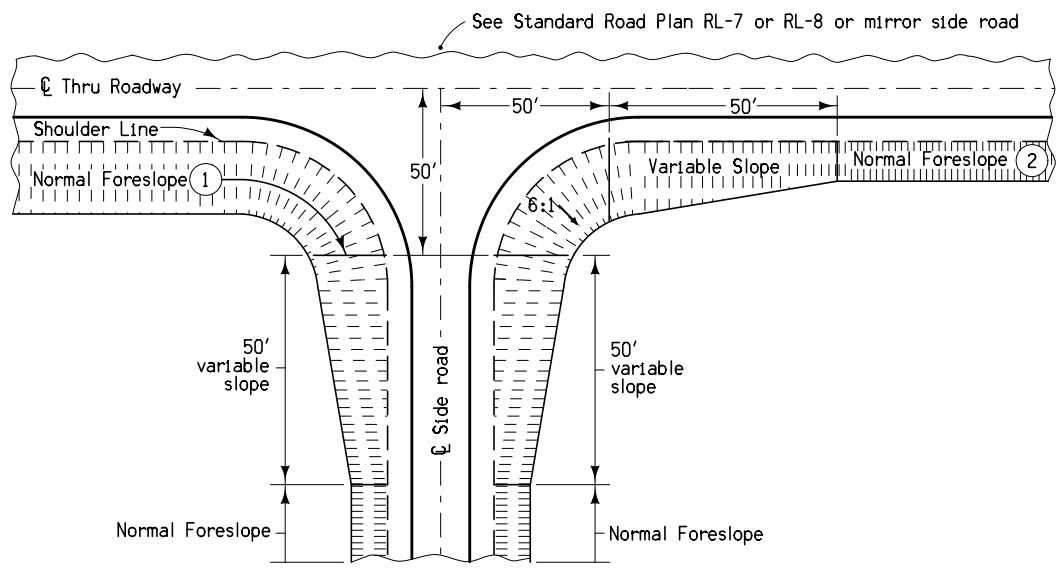
① Existing road surfacing (granular material) shall be placed as shown unless otherwise directed by the Engineer or provided for in the detail project plans.

② When specified, the upper 1' to be suitable for vegetation (grass or crops).

Note:
 The work of obliterating or reshaping old roadbeds shall be done at the direction of the Engineer.

TYPICAL DETAILS FOR OBLITERATION EXISTING ROADBED

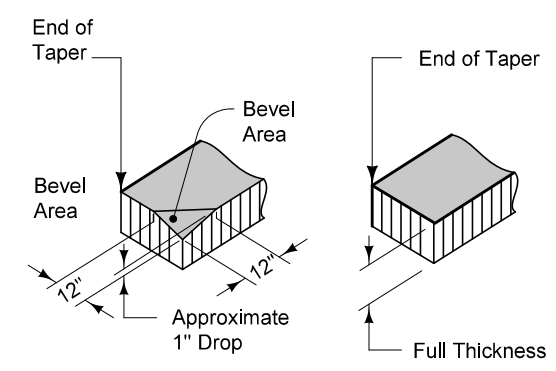
2116
04-15-08



- ① For normal foreslopes 6:1 or flatter.
- ② For normal foreslopes steeper than 6:1.

SIDE ROAD GRADING

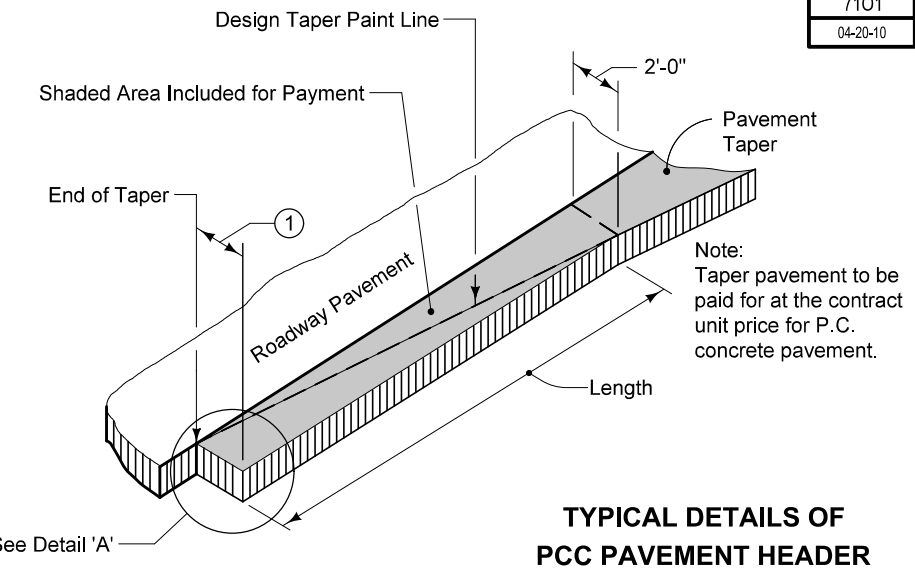
7101
04-20-10



DETAIL 'A'
FOR GRANULAR SHOULDERS

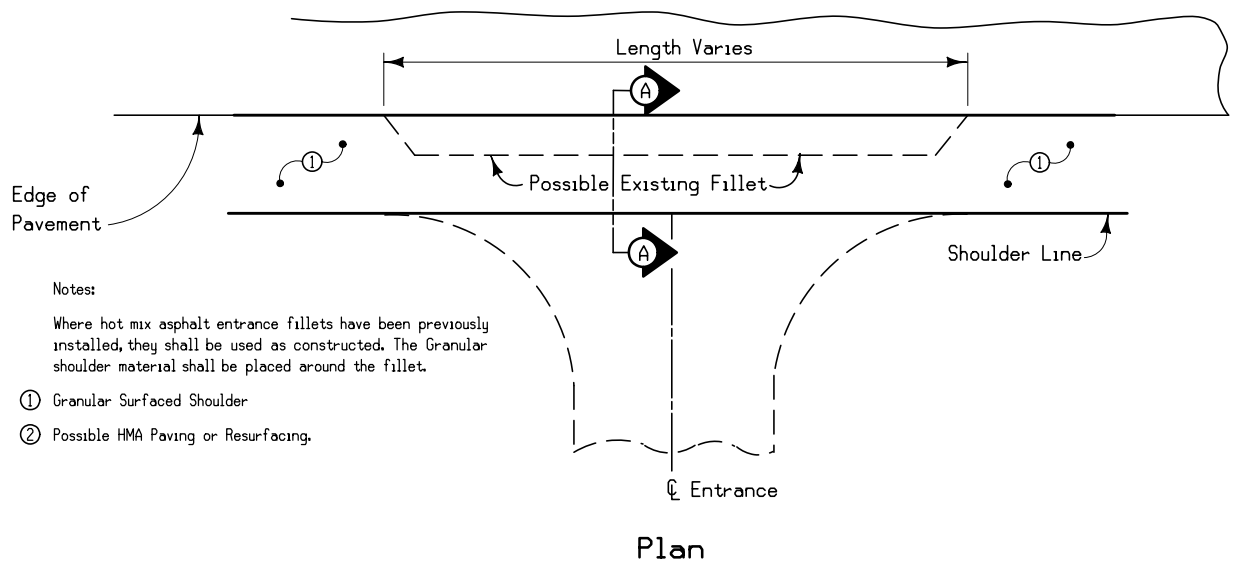
DETAIL 'A'
FOR PAVED SHOULDERS

- ① Normal width is 2'-0". Construct 4'-0" width when butting into 4' wide HMA shoulders (See Typical 7154A).



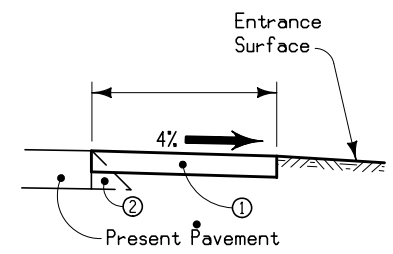
TYPICAL DETAILS OF PCC PAVEMENT HEADER

7117
10-02-01

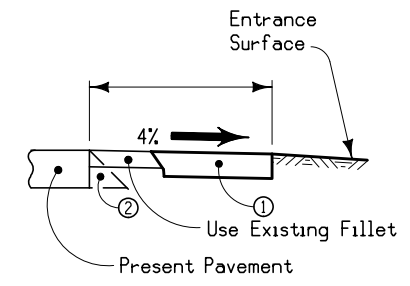


- Notes:
Where hot mix asphalt entrance fillets have been previously installed, they shall be used as constructed. The Granular shoulder material shall be placed around the fillet.
- ① Granular Surfaced Shoulder
 - ② Possible HMA Paving or Resurfacing.

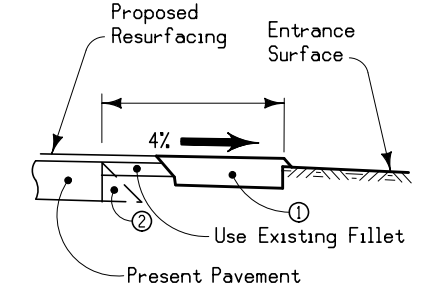
Plan



Section A-A
Without Fillet



Section A-A
With Previous Fillet



Section A-A
With Previous Fillet
And Resurfacing Less than 1/2"

GRANULAR SHOULDER CONSTRUCTION THRU ENTRANCES

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.

- ① Refer to MI-210
- ② Refer to RL-8.
- ③ Refer to RL-7 or RL-8.

*Predetermined for access point not constructed with this project.

Location		Type	Length of Opening ①			① ②			Pipe Culvert ③					Aprons	Driveway Surface Area		Driveway Surfacing Material	Remarks
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1½" Dropped Curb	3" Dropped Curb	W	PR	SR	H	Size	Pipe Length	Lt.	Rt.		HMA	PCC		
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY	TON	
ML031 2183+65.47	Lt	C				20.0		15.0	3.0	24.0	65.0	31.7	33.0	2			36.000	
5th St 72+00.00	Lt	C				20.0		15.0	1.1	18.0	37.0	17.8	18.7	2			8.000	
72+00.00	Rt	C				20.0		15.0	1.0	18.0	37.0	17.8	18.6	2			8.000	
78+00.00	Lt	C				20.0		15.0	1.0	18.0	30.1	15.0	15.0	2			9.000	
78+00.00	Rt	C				20.0		15.0									9.000	

SURVEY SYMBOLS

- x — FW Wire Fence
- TP TPD Telephone Pedestal
- UB UB Utility Box
- Tile — TIL Tile Line
- OUT Tile Outlet
- ⊙ BIN Grain Bin
- PPA Power Pole Co. 1
- GDL Guard Rail Steel
- MM Mile Marker Post
- BL Topo Breakline
- MIS Miscellaneous
- PR Electric Riser Pole
- FWD Wood Fence
- RET Retaining Walls
- ⊕ MH Utility Access (Manhole)
- COR Round Bridge Pier Column
- ⊕ LP L.P. Tank
- COS Square Bridge Pier Column
- ⊕ INB Storm Sewer Beehive Intake
- EB EB Electrical Box
- ⊕ WEL Well
- ⊕ PPB Power Pole Co. 2
- WH WHD Water Hydrant
- ⊕ SEP Septic Tank
- ⊕ AST Above Ground Storage Tank
- SIGN SI Sign
- FLG Flag Poles
- ⊕ TV Satellite TV Dish
- ⊕ CIS Cistern
- ⊕ UST Underground Tank
- GP GP Guard Post (Less Than 4 Posts)
- LUM Luminaire
- SNP Unpaved Shoulder
- ENT Centerline BL of Entrance
- ENU Edge Unpaved Entrance & Parking
- ← DU Centerline Draw or Stream (Up)
- D Centerline Draw or Stream (Down)
- EW Edge of Water
- BNK Stream Bank
- DIK Centerline of Dike or Dam
- EG Edge of Gravel Road
- C Centerline BL of Road (ML or SR)
- ⊕ IN Storm Sewer Intake
- RIP Rip-Rap
- T3 TLC Underground Telephone Line Co. 3
- F0 FOA Underground Fiber Optic Co. 1
- F05 FOE Underground Fiber Optic Co. 5
- F02 FOB Underground Fiber Optic Co. 2
- T2 TLB Underground Telephone Line Co. 2
- T1 TLA Underground Telephone Line Co. 1
- E1 ELA Underground Electric Line Co. 1
- ROW Right of Way Rail
- BB BB Billboard
- SIGN SL Speed Limit Sign
- # FCL Chain Link and Security Fence
- San. SAA Sanitary Sewer Line Co. 1
- ⊕ TDC Tree Deciduous
- ✱ TEV Evergreen Tree
- ⊕ FHD Fire Hydrants
- T4 TLD Underground Telephone Line Co. 4
- F04 FOD Underground Fiber Optic Co. 4
- F03 FOC Underground Fiber Optic Co. 3
- E2 ELB Underground Electric Line Co. 2
- ⊕ SHR Shrub
- ⊕ TFR Tree Fruit
- WV WV Water Valve
- W WLA Underground Water Line Co. 1
- San.2 SAB Sanitary Sewer Line Co. 2

UTILITY LEGEND

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712-275-4211
allison@schallertel.net

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design	Color No.	Description
Green	(2)	Green	Existing Topographic Features and Labels
Blue	(1)	Blue	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Magenta	Existing Utilities
SHADING			
Design	Color No.	Description	
Yellow	(4)	Yellow	Highlight for Critical Notes or Features
Red	(3)	Red	Delineates Restricted Areas
Lavender	(9)	Lavender	Temporary Pavement Shading
Gray, Light	(48)	Gray, Light	Proposed Pavement Shading
Gray, Med	(80)	Gray, Med	Proposed Granular Shading
Gray, Dark	(112)	Gray, Dark	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Brown, Light	Grading Shading
Tan	(8)	Tan	Proposed Sidewalk Shading
Blue, Light	(230)	Blue, Light	Proposed Sidewalk Landing Shading
Pink	(11)	Pink	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design	Color No.	Description
Green	(2)	Green	Existing Ground Line Profile
Blue	(1)	Blue	Proposed Profile and Annotation
Magenta	(5)	Magenta	Existing Utilities
Blue, Light	(230)	Blue, Light	Proposed Ditch Grades, Left
Black	(0)	Black	Proposed Ditch Grades, Median
Rust	(14)	Rust	Proposed Ditch Grades, Right

- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

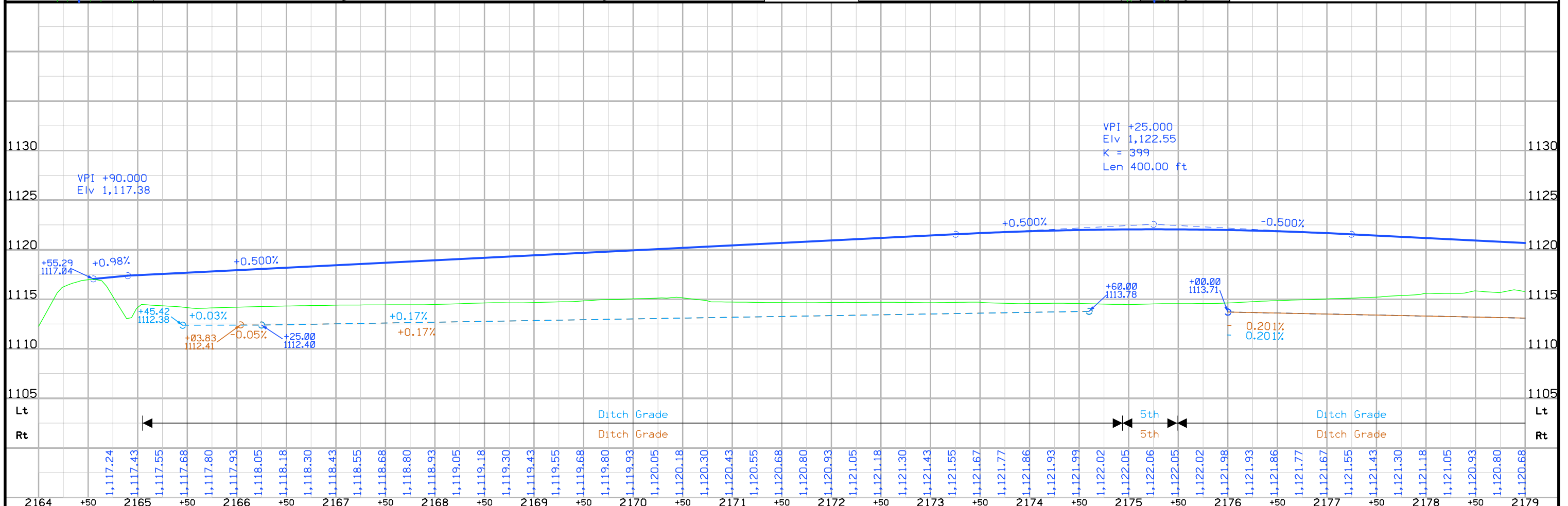
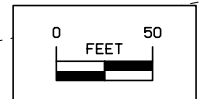
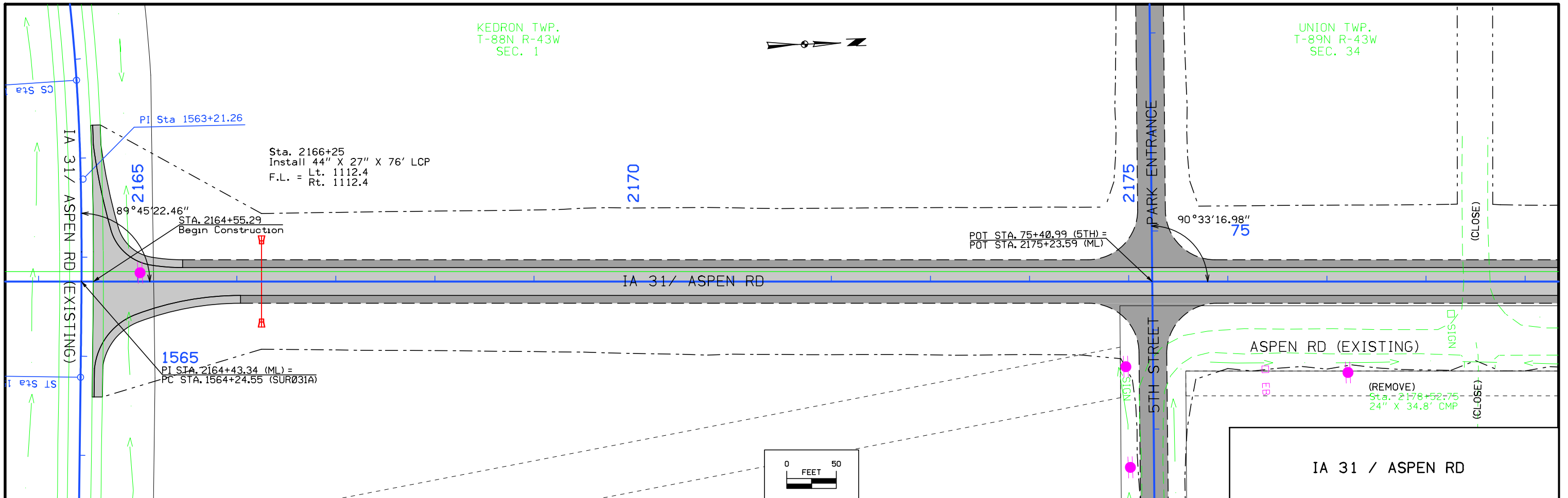
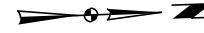
- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- Easement (Existing)
- Access Control
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)

KEDRON TWP.
T-88N R-43W
SEC. 1

UNION TWP.
T-89N R-43W
SEC. 34



2164	+50	2165	+50	2166	+50	2167	+50	2168	+50	2169	+50	2170	+50	2171	+50	2172	+50	2173	+50	2174	+50	2175	+50	2176	+50	2177	+50	2178	+50	2179
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UNION TWP.
T-89N R-43W
SEC. 34



Curve Data
 $\Delta = 6^\circ 40' 02.89''$ (RT)
 $T = 378.63$
 $L = 756.40$
 $PR = 6,500.00$
 $e = 11.02$
 $e = NC$

Sta. 2182+00
 Install 42" X 76' RCP
 Lt. 1112.5
 Rt. 1112.5

Sta. 83+32.00
 Install 24" X 65' UNCL
 Lt. 1113.0
 Rt. 1112.8

POT STA. 2183+65.47 (ML) =
 POT STA. 83+95.03 (7th)

2180

2185

2190

PI Sta 2194+21.67

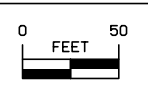
IA 31 / ASPEN RD

ASPEN RD (EXISTING)

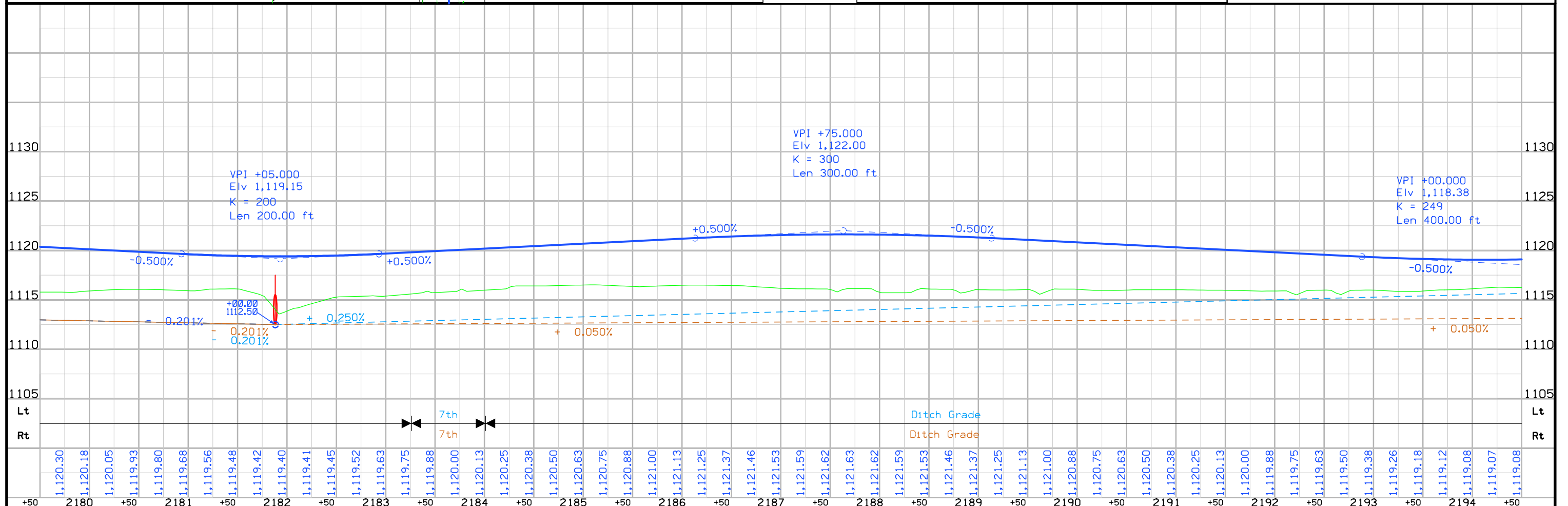
(REMOVE)
 Sta. 2180+00.00 X
 24" X 40.1' CMP

(REMOVE)
 Sta. 84+77.16
 24" X 35.0' CMP

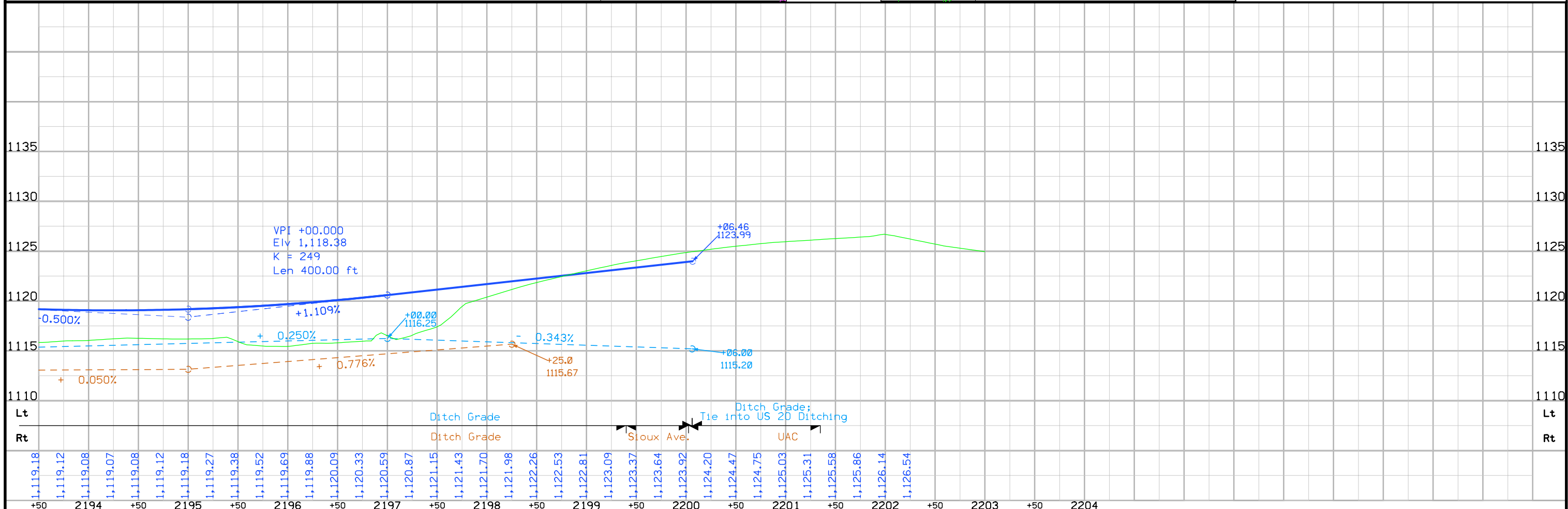
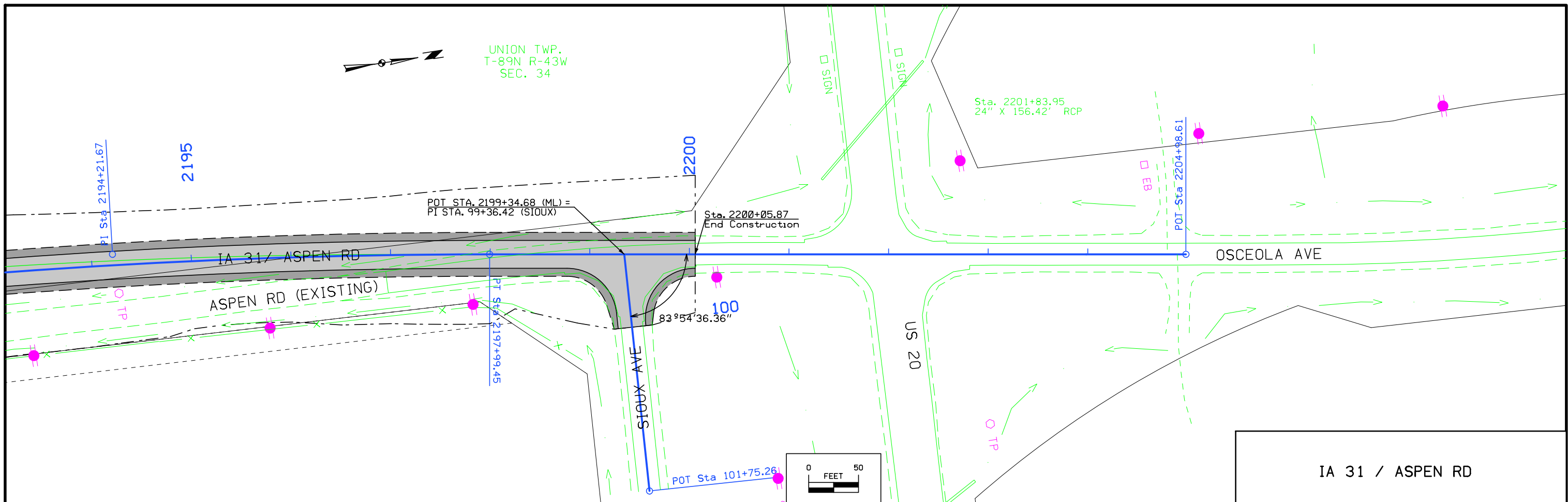
Sta. 84+75
 Install 36" X 32' RCP
 Lt. 1112.6
 Rt. 1112.6

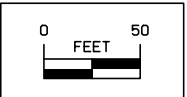
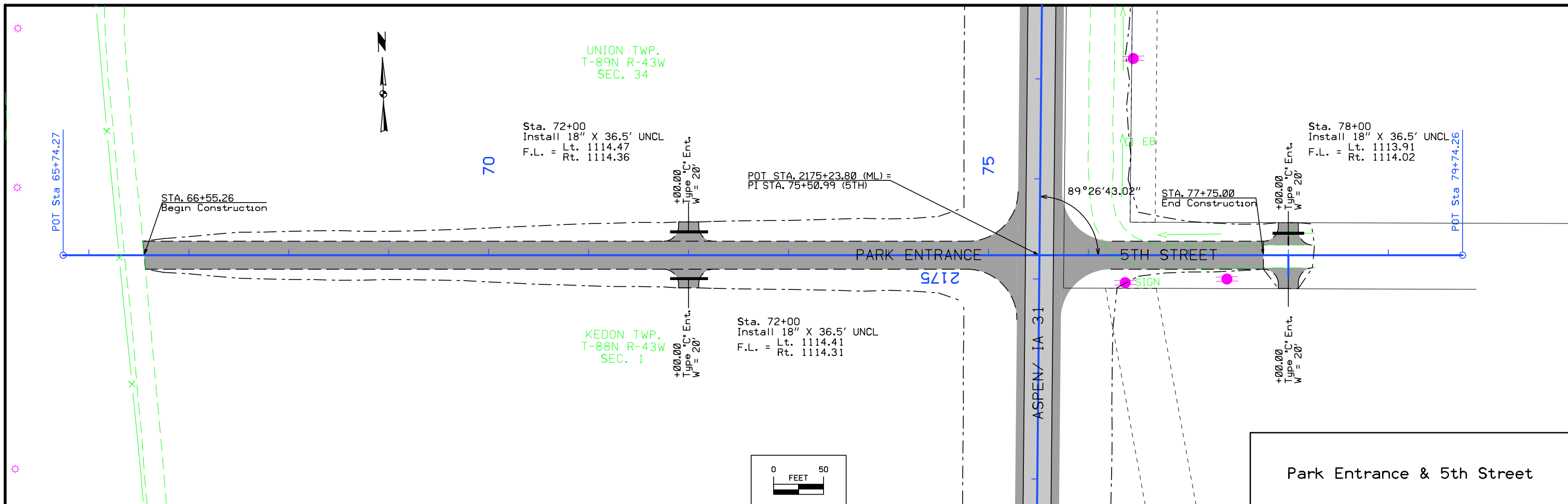


IA 31 / ASPEN RD

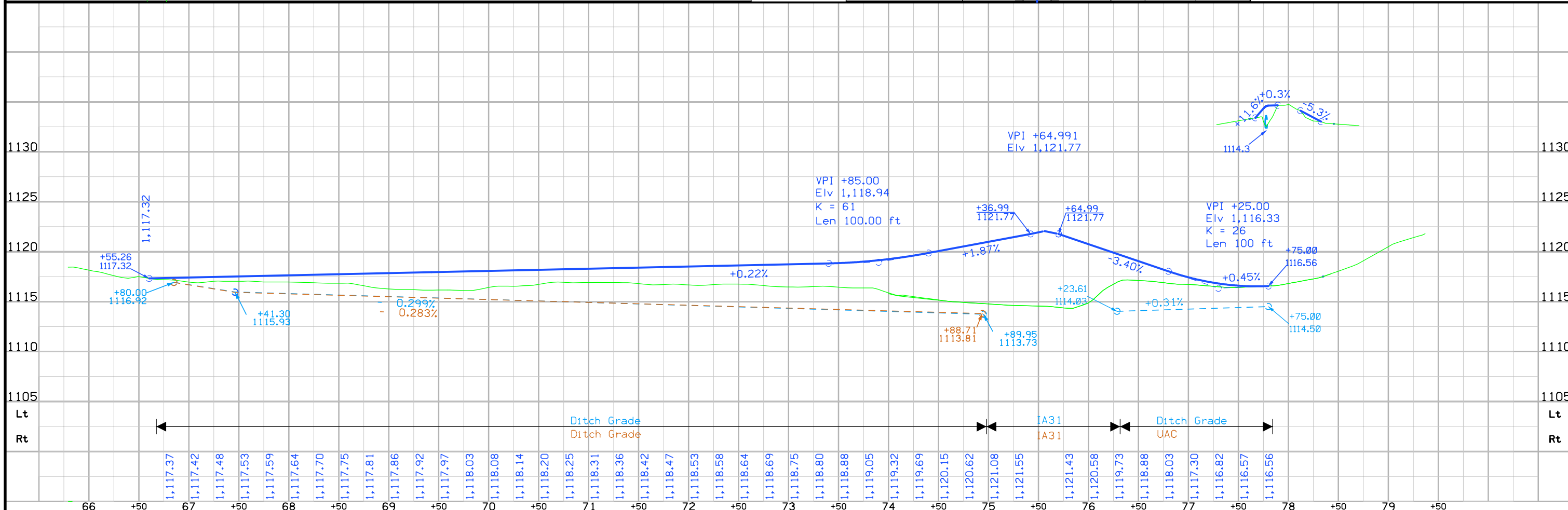


English	IOWA DOT	DESIGN TEAM	JIA\MILLER\SMYTH	WOODBURY COUNTY	PROJECT NUMBER	STPN-031-1(32)--2J-97	SHEET NUMBER	D.3
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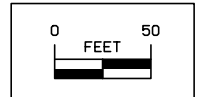
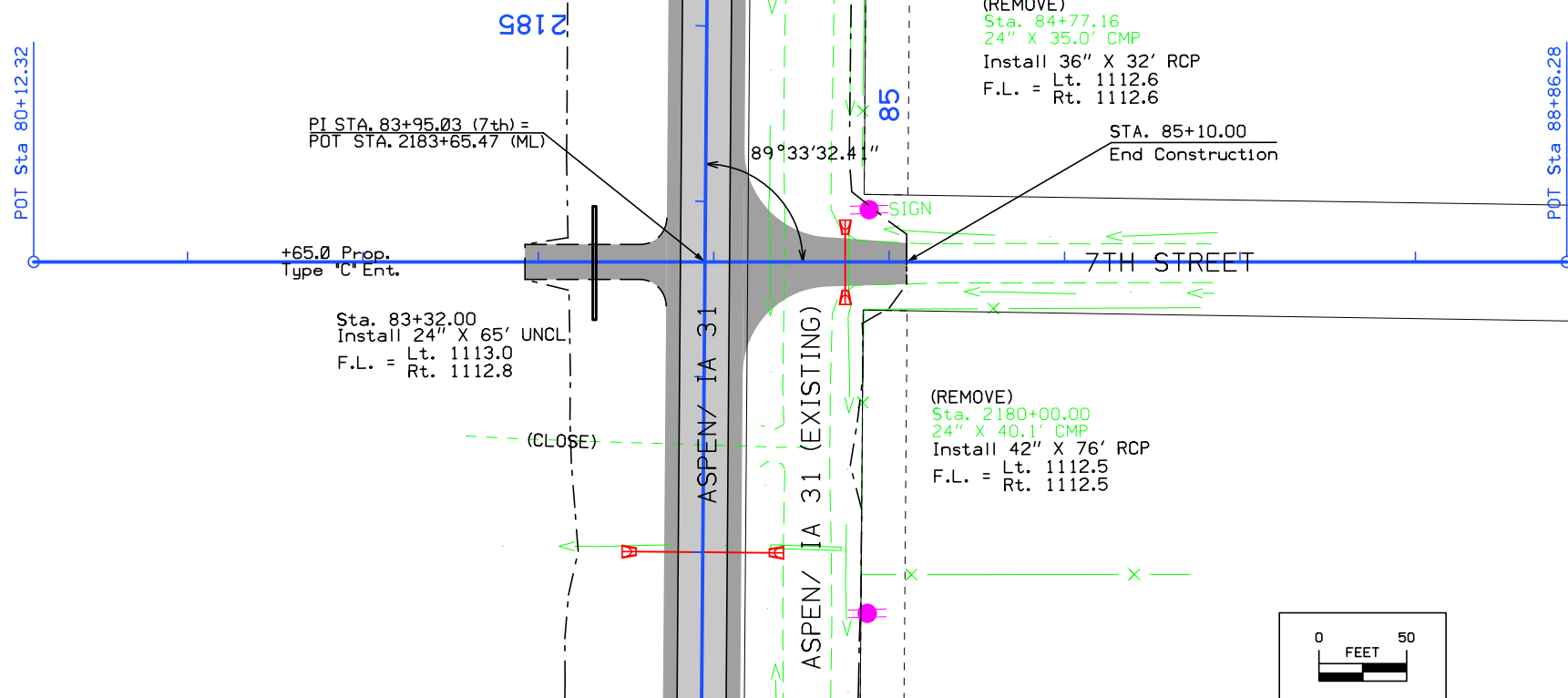




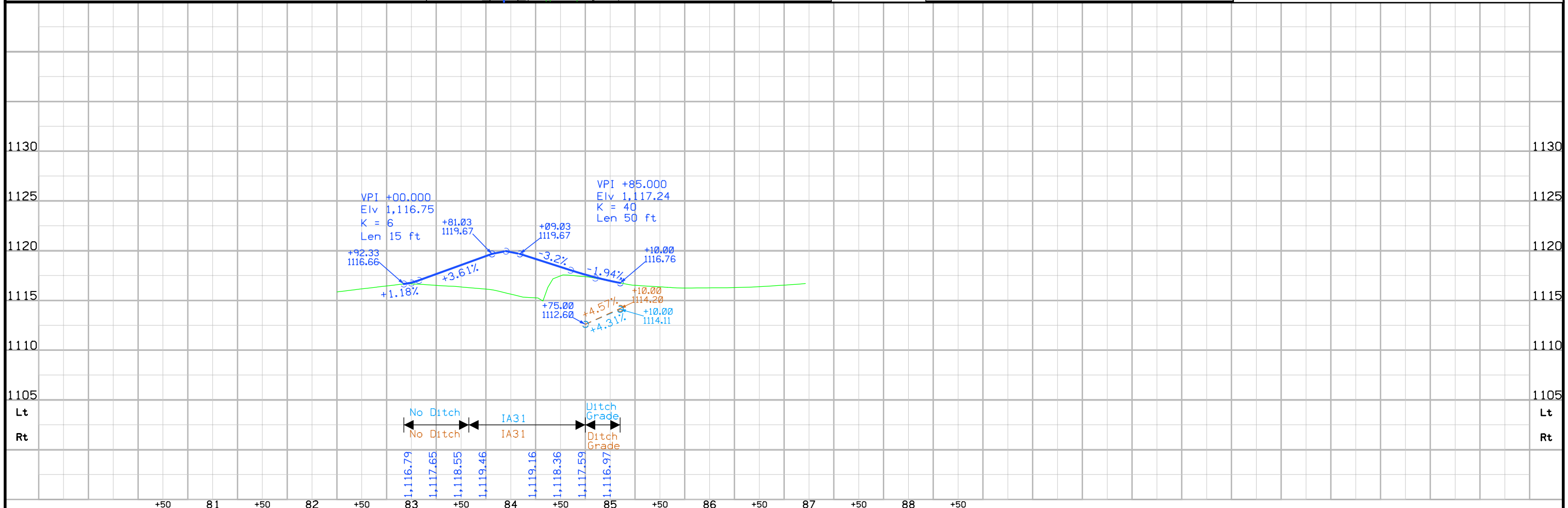
Park Entrance & 5th Street

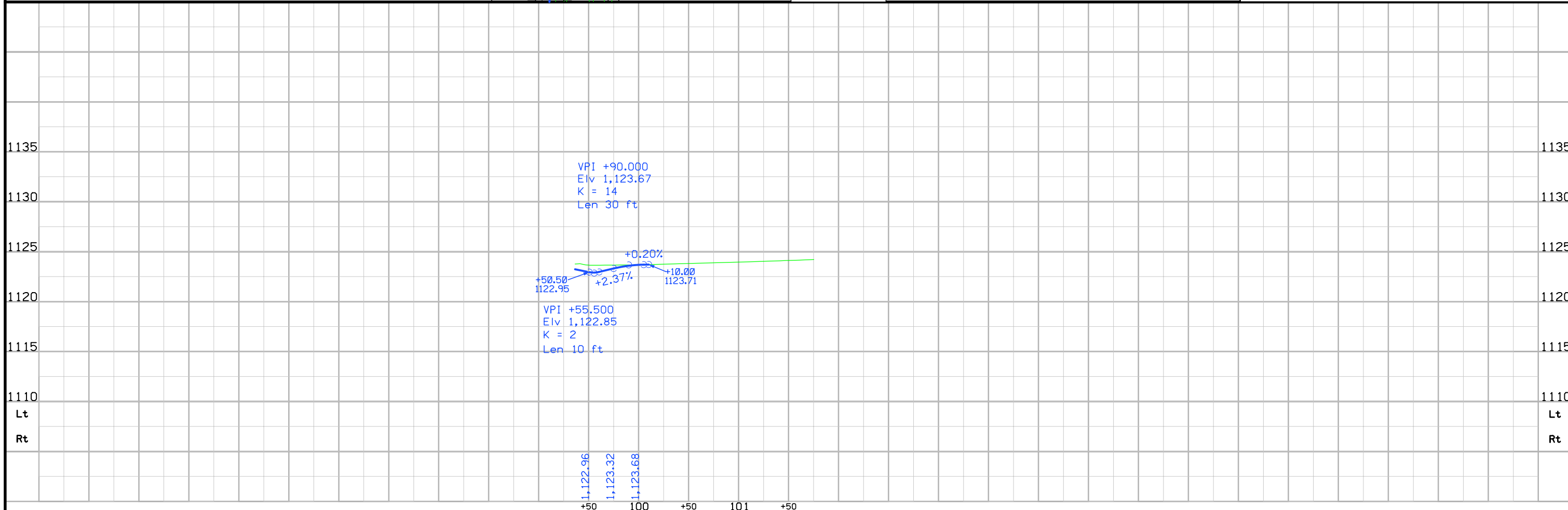
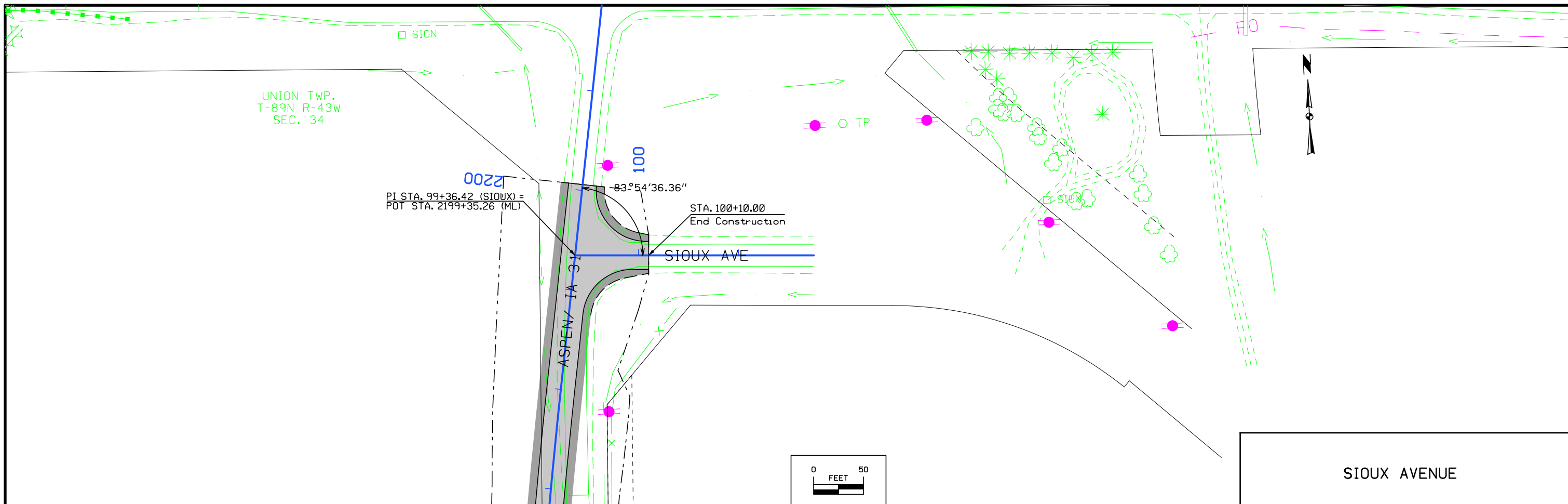


UNION TWP.
T-89N R-43W
SEC. 34



7th Street
& Entrance at Sta. 2183+65





Survey Information

General Information

Measurement units for this survey are US survey feet. This survey is for proposed four lane for US 20 between just east of Merville to Early. Project control information is from a 1998 planning study survey (SAP's 130-133). This field survey was to obtain roadway and drainage features and break lines. The entire digital terrain model and topography in the corridor will be completed by supplemental aerial photography.

Vertical Control

Vertical control for this survey is relative to a 1998 digital bench level survey. The 1998 survey is reported to be relative to NAVD88 datum. A level loop was started at BM 997 (USGS BM 29RS) and headed west along US 20 then back to BM 997 (USGS BM 29RS) where adjustments were made. Another run was started at BM 508 then continued east to BM 998 (USGS BM G14) where adjustments were made. NAVD88 elevations were determined at USGS BM 29RS and USGS BM G 14 by converting published NGVD29 elevations using transformation software. The unadjusted bench level run from BM 29RS had a misclosure at BM G 14 of 0.31'. This misclosure is verified by 1998 GPS observations. Even though the misclosure between the two marks is relatively high the error was distributed proportionately along the route.

Vertical equations are as follows:

Datum Benchmark
BM # 997 this survey = (USGS BM 29RS) Elevation = 1378.29 NAVD
1988
= NGVD29 Elevation 1377.761

Datum Benchmark
BM # 998 this survey = (USGS BM G14) Elevation = 1143.26 NAVD
1988
= NGVD29 Elevation 1142.816

Wolf Creek Bridge West Bridge Seat this survey Elevation = 1287.28
= Wolf Creek Bridge West Bridge Elevation = 1287.30
Project # FN-201(58)--21-97

Horizontal Control

Horizontal control for this survey is from 1998 GPS network survey as follows:

GENERAL INFORMATION FOR G.P.S. PROJECT :
SAP 130, NHS-20-1(77)--19-97

SAP 131, NHS-20-2(53)--19-47

SAP 132, NHS-20-2(54)--19-47

SAP 133, NHS-20-2(55)--19-81

STATE PLANE COORDINATE ZONE 1401 (IOWA NORTH LAMBERT)

STATE PLANE COORDINATES HELD AT POINT G046

AVERAGE PROJECT LATITUDE = 42 28 31.38335

RESULTING RADIUS = 6364559.741

MEAN PROJECT ELEVATION = 415.000

SEA LEVEL FACTOR = 0.999934799

AVERAGE PROJECT SCALE FACTOR = 0.999950986

COMBINED FACTOR (GRID) = 0.999885789

1 / GRID = 1.000114224

VERTICAL DATUM = NAVD 88 <> HORIZONTAL DATUM = NAD 83

Local Project Plane Coordinate Conversion Equation :

- a. Local Project Coord y = [(State Plane y - hold point y) / grid factor] + hold point y
- b. Local Project Coord x = [(State Plane x - hold point x) / grid factor] + hold point x

Coordinates are metric units. Metric units were converted to US Survey feet units for project coordinates.

NOTE: GPS DERIVED HEIGHTS ARE NOT RELATIVE TO ADJUSTED PROJECT HEIGHTS.

Survey Information

Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans, Fed. Project # 2, Fed. Project # 2 (15), Fed. Project # 2(19), and Fed. Project # 2(11). Stationing was established at PI Sta. 226+64.5. Stationing was then backed westerly to the BOP and carried forward to the EOP. The followings PI's were set by the District 3 Office.

PI Sta., 226+64.5 (Fed. Project # 2 (19))
 PI Sta. 274+54.6 (Fed. Project # 2)
 PI Sta. 390+20.4 (Fed. Project # 2)
 PI Sta. 422+35.2 (Fed. Project # 2)
 PI Sta. 491+85.9 (Fed. Project # 2)
 PI Sta. 533+02.9 (Fed. Project # 2 (15))
 PI Sta. 580+47.1 (Fed. Project # 2 (15))
 PI Sta. 690+48.1 (Fed. Project # 2 (15))
 PI Sta. 742+55.0 (Fed. Project # 2 (15))
 PI Sta. 776+98.7 (Fed. Project # 2 (15))
 PC Sta. 882+75.6 (Fed. Project # 2 (11))
 PT Sta. 905+83.1 (Fed. Project # 2 (11))
 PC Sta. 916+76.4 (Fed. Project # 2 (11))
 PT Sta. 940+20.5 (Fed. Project # 2 (11))
 PI Sta. 966+07.1 (Fed. Project # 2 (11))
 PI Sta. 1003+59.8 (Fed. Project # 2 (11))
 PI Sta. 1035+20.3 (Fed. Project # 2 (11))
 PI Sta. 1045+51.7 (Fed. Project # 2 (11))
 PI Sta. 1057+00.1 (Fed. Project # 2 (11))
 PI Sta. 1148+65.5 (Fed. Project # 2 (11))

Equations are as follows:

PI Sta. 226+64.5 This Survey
 = PI Sta. 226+64.5 (Fed. Project # 2 (19))

PI Sta. 274+54.22 this survey
 = PI Sta. 274+54.6 (Fed. Project # 2)

PI Sta. 390+21.71 this survey
 = PI Sta. 390+20.4 (Fed. Project # 2)

PI Sta. 422+36.66 this survey
 = PI Sta. 422+35.2 (Fed. Project # 2)

PI Sta. 491+88.23 this survey
 = PI Sta. 491+85.9 (Fed. Project # 2)

PI Sta. 533+05.21 this survey
 = PI Sta. 533+02.9 (Fed. Project # 2 (15))

PI Sta. 580+49.39 this survey
 = PI Sta. 580+47.1 (Fed. Project # 2 (15))

PI Sta. 690+49.96 this survey
 = PI Sta. 690+48.1 (Fed. Project # 2 (15))

PI Sta. 742+55.60 this survey
 = PI Sta. 742+55.0 (Fed. Project # 2 (15))

PI Sta. 776+98.28 this survey
 = PI Sta. 776+98.7 (Fed. Project # 2 (15))

PC Sta. 882+75.6
 = PC Sta. 882+75.6 (Fed. Project # 2 (11))

PT Sta. 905+83.1
 = PT Sta. 905+83.1 (Fed. Project # 2 (11))

PC Sta. 916+76.4
 = PC Sta. 916+76.4 (Fed. Project # 2 (11))

PT Sta. 940+20.5
 = PT Sta. 940+20.5 (Fed. Project # 2 (11))

PI Sta. 966+07.1
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PI Sta. 1003+59.8
 = PI Sta. 1003+59.8 (Fed. Project # 2 (11))

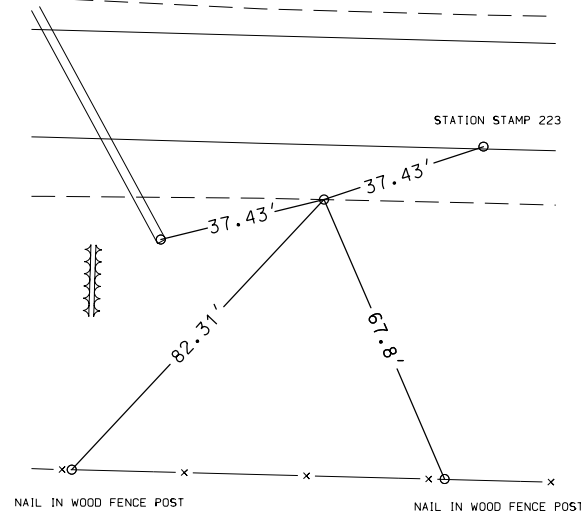
PI Sta. 1035+20.3
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PI Sta. 1045+51.7
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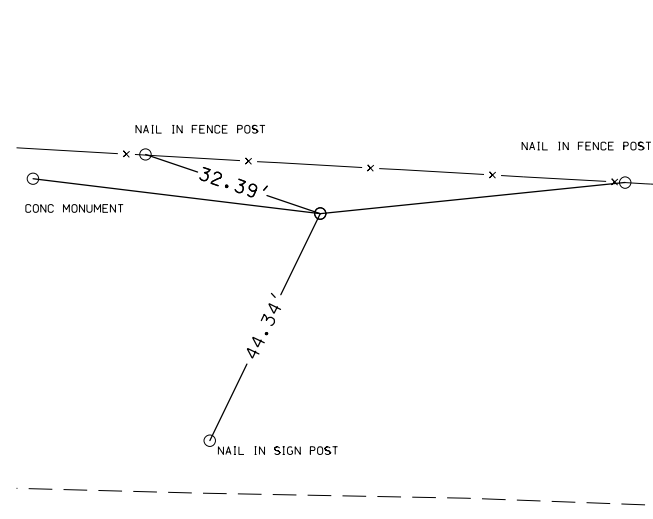
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PI Sta. 1148+65.5
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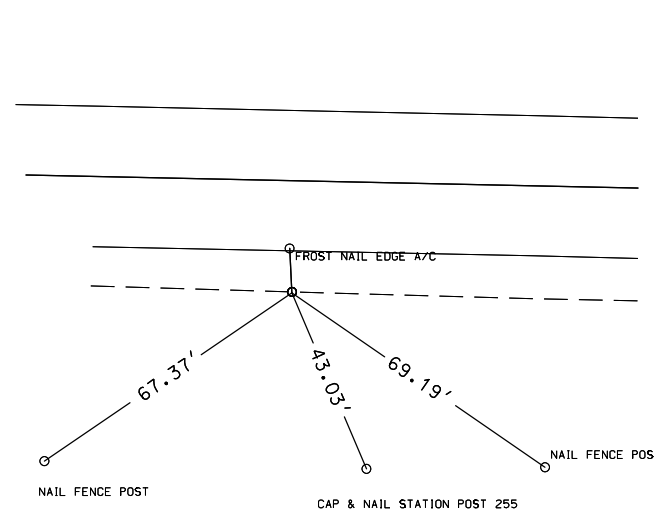
CP STA. 222+64.43, 107.80 RT.
 CP No. 102, FOUND 5/8 REBAR
 N=3648748.078, E=4243594.245



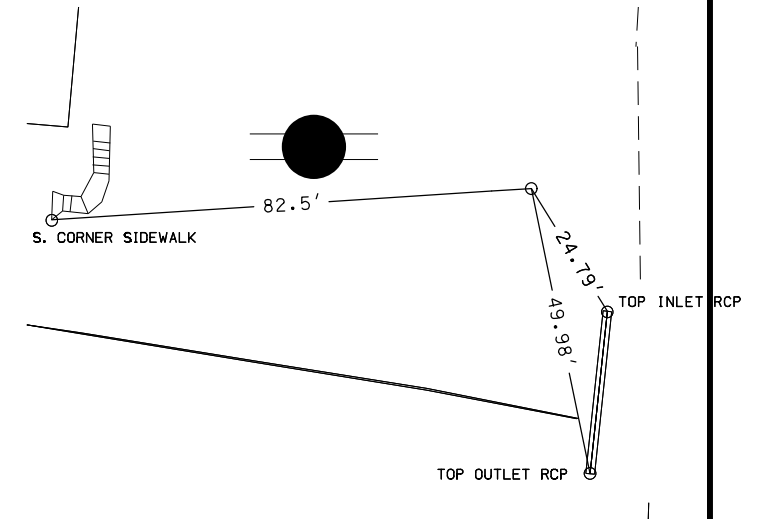
CP STA. 244+71.37, 74.05 LT.
 CP No. 11 Conc Monument
 N=3648880.543, E=4245805.058



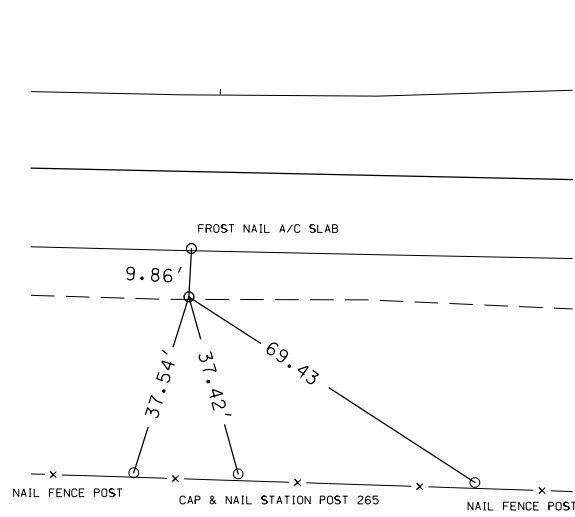
CP STA. 254+81.60, 25.04 Rt.
 CP No. 104 Found Rebar
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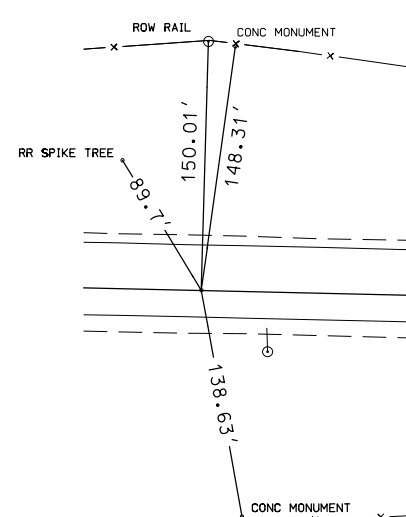
CP STA. 262+61.0, 1341.85 Rt.
 CP No. 997 Found Disk
 N=3647426.521, E=4247564.15



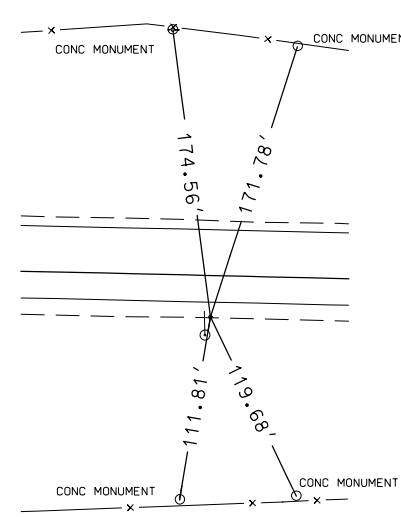
CP STA. 264+89.96, 25.53 Rt.
 CP 105, Found 5/8 Rebar
 N=3648737.623, E=4247821.041



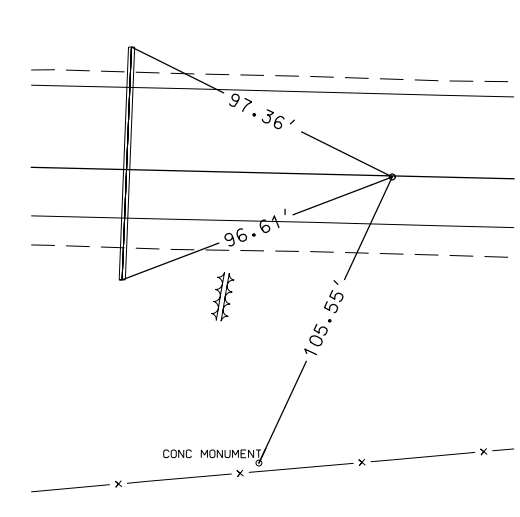
PI STA. 274+54.22
 PI 413, Found PK Nail
 N=3648742.4349, E=4248785.6266



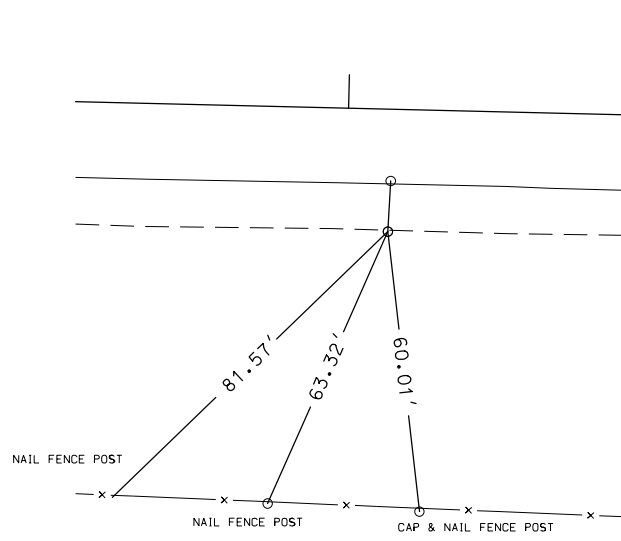
CP STA. 274+98.03, 25.01 Rt.
 CP 12 Found 5/8 Rebar
 N=3648716.2360, E=4248828.8450



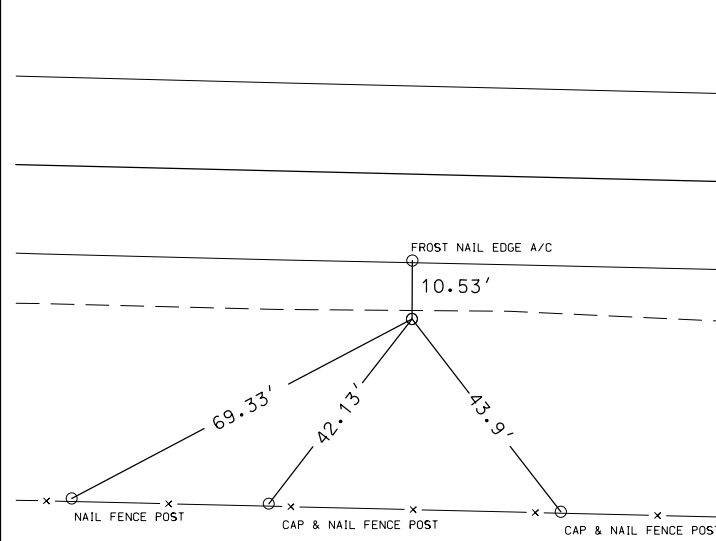
CP STA. 279+99.82, 0.35 Rt.
 CP 403 Found Hinge Nail
 N=3648728.9800, E= 4249331.0580



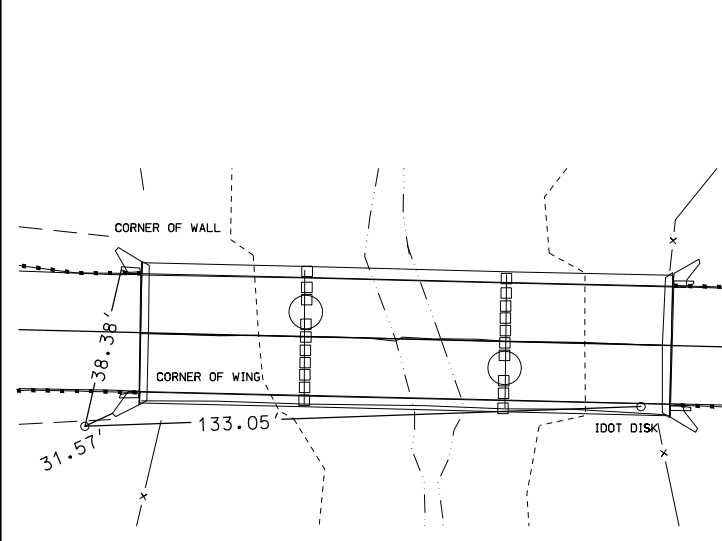
CP STA. 298+09.00, 26.06 Rt.
 CP 107 Found 5/8 Rebar
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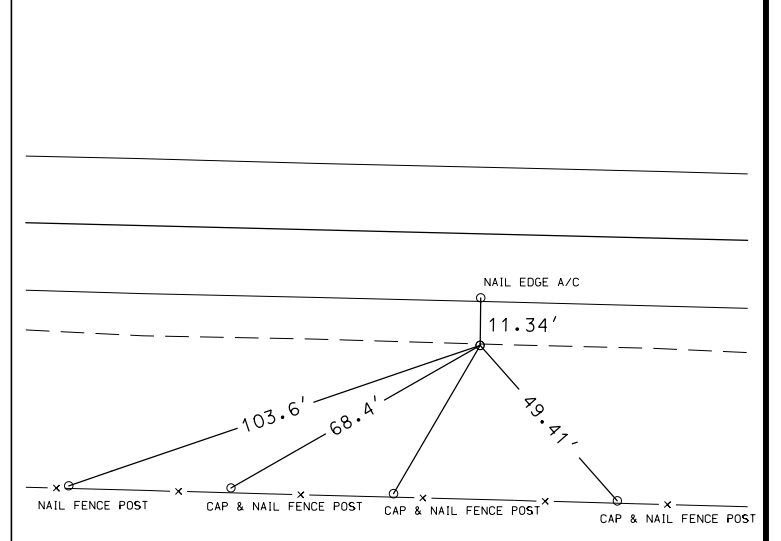
CP STA. 311+15.83, 26.09 Rt.
 CP 108 Found 5/8 Rebar
 N=3648628.3670, E=4252445.5520



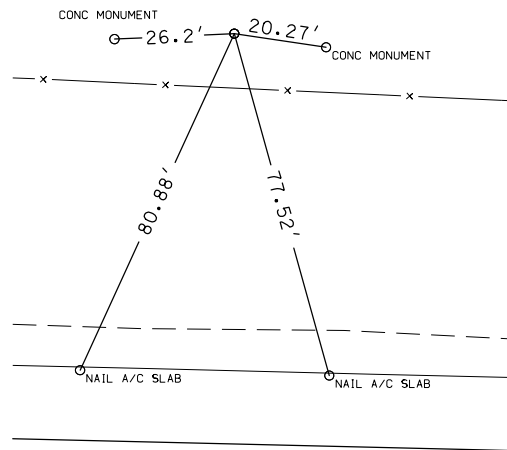
CP STA. 324+23.74, 22.70 Rt.
 CP 13 Found 5/8 Rebar
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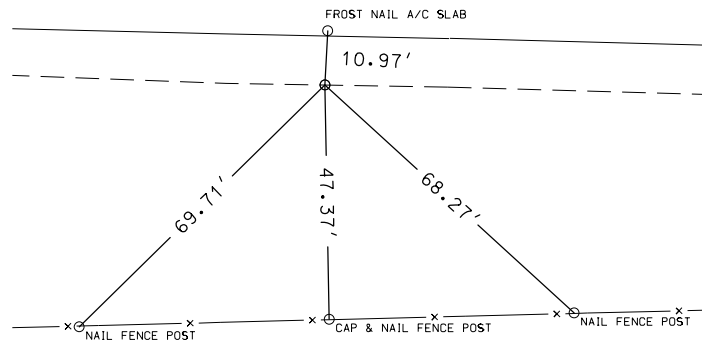
CP STA. 334+65.85, 26.59 Rt.
 CP 109 Found 5/8 Rebar
 N=3648571.4010, E=4254794.8840



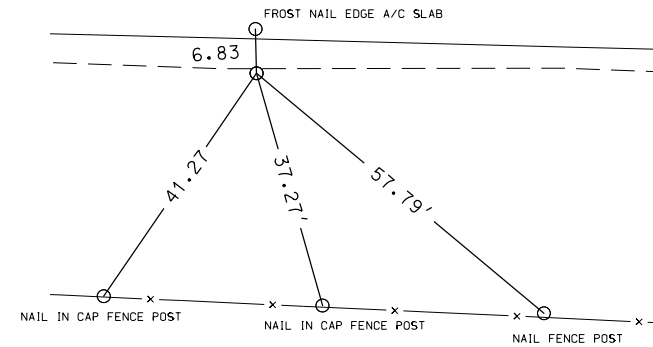
CP STA.345+05.75, 89.60 Lt.
 CP 14 Found Right Of Way Rail
 N=3648662.5780, E= 4255837.2690



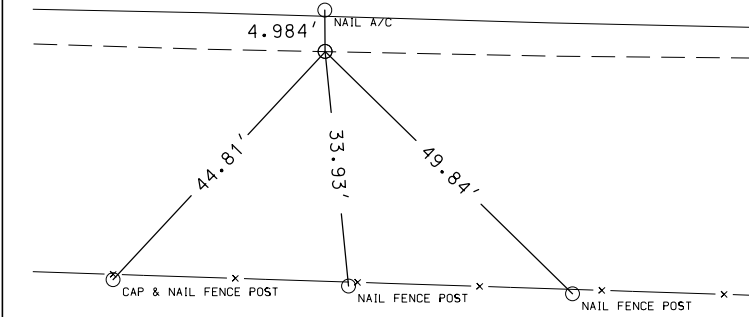
CP STA.356+33.49, 25.61 Rt.
 CP 110 Found 5/8 Rebar
 N=3648520.2950, E=4256961.9160



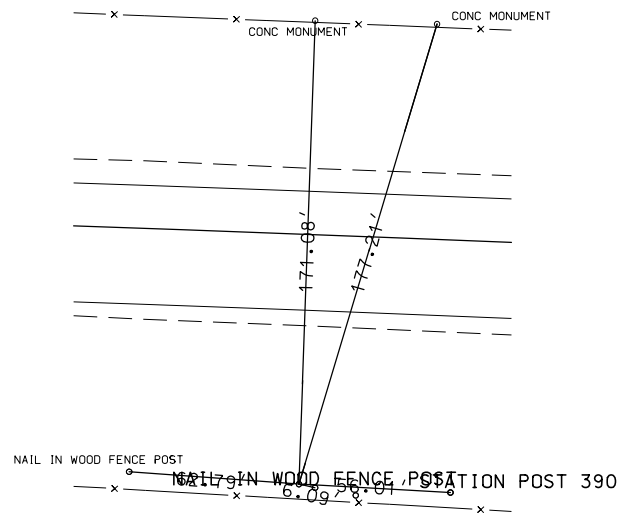
CP STA.367+56.46, 33.28 Rt.
 CP 111 Found 5/8 Rebar
 N=3648485.6490, E=4258084.3820



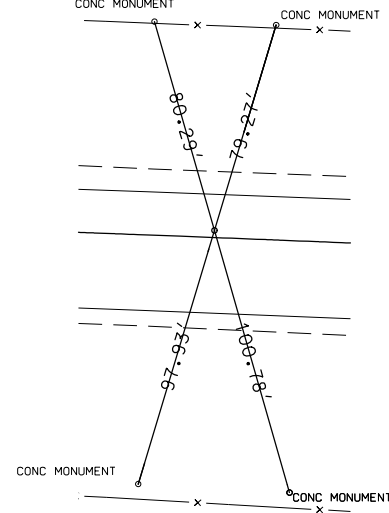
CP STA.378+79.17, 33.02 Rt.
 CP 112 Found 5/8 Rebar
 N=3648458.9350, E=4259206.7690



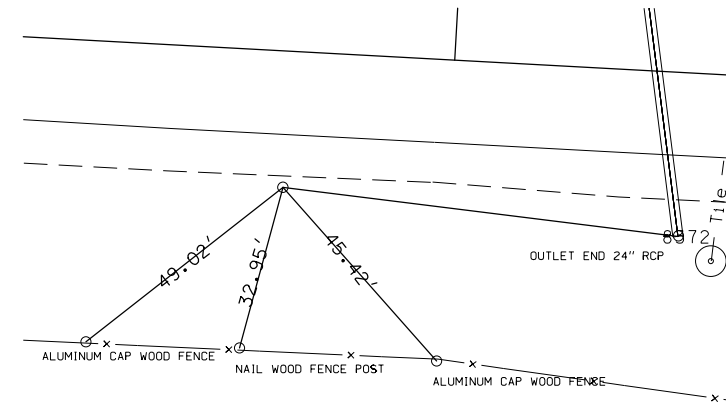
CP STA.389+97.13, 92.18 Rt.
 CP 15 Found 5/8 Rebar
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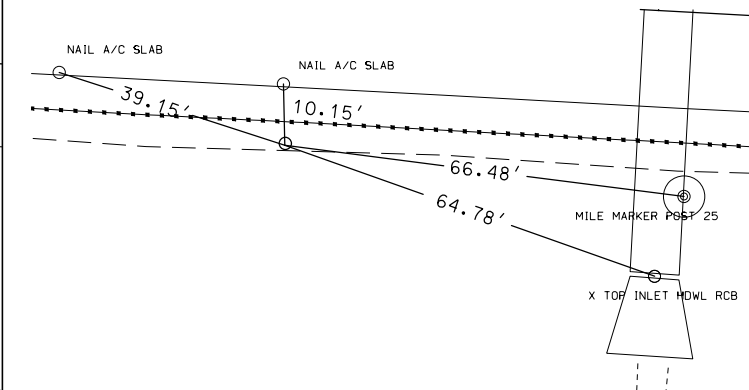
PI STA. 390+21.72
 PI 404 Found PK Nail
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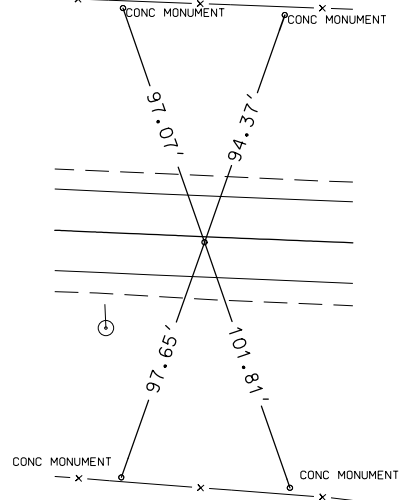
CP STA. 401+67.75 26.68 Rt.
 CP 414 Found 5/8 Rebar
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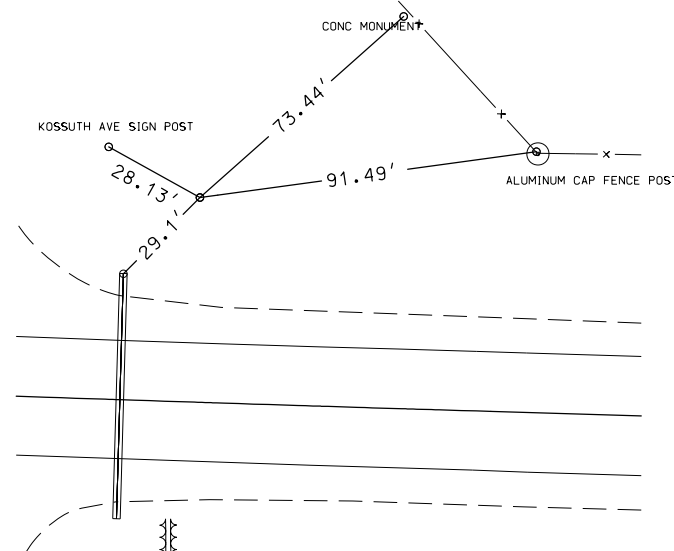
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 CP 415 Found 5/8 Rebar
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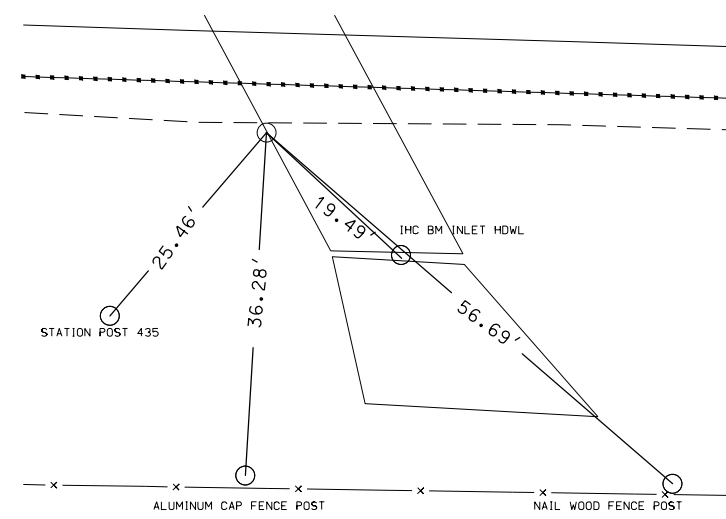
PI STA. 422+36.66
 PI 405 Not Set
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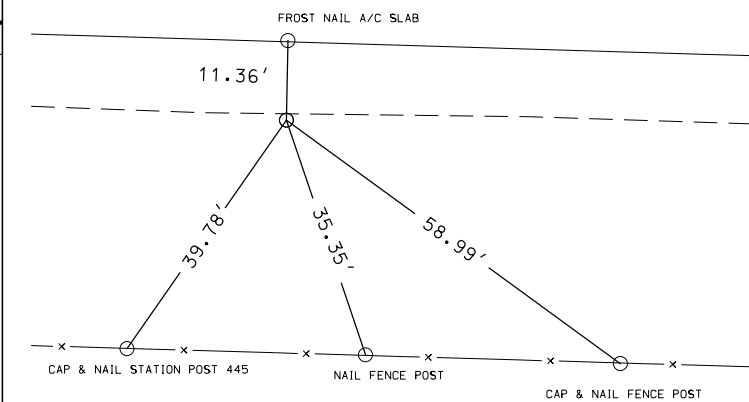
CP STA. 425+10.61, 55.15 Lt.
 CP 16 Found 5/8 Rebar
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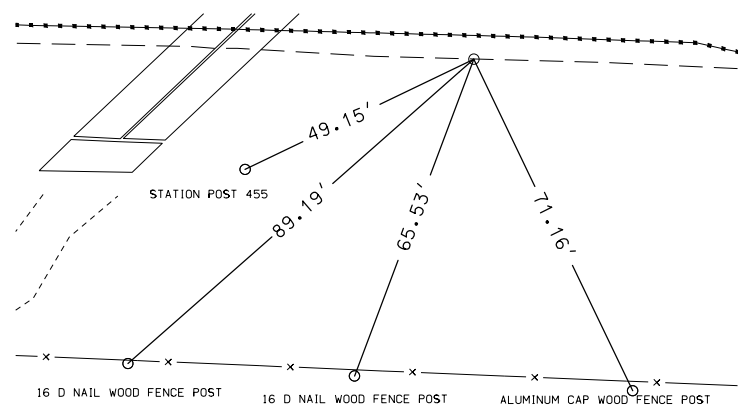
CP STA. 435+18.11, 26.71 Rt.
 CP 417 Found 5/8 Rebar
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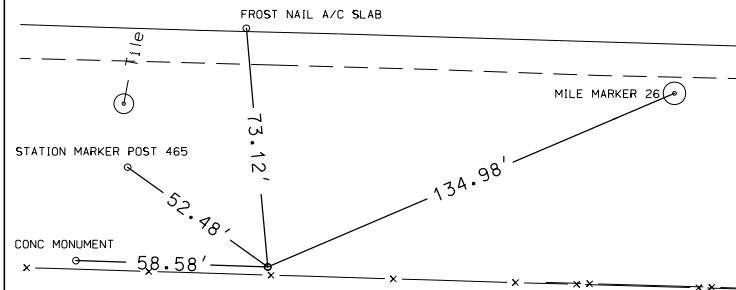
CP STA. 445+24.37, 27.28 Rt.
 CP 418 Found 5/8 Rebar
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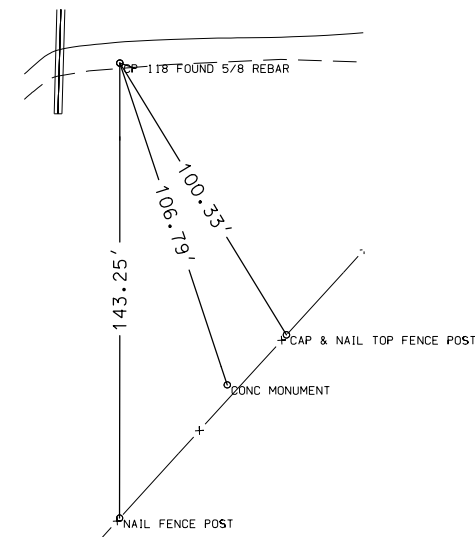
CP STA. 455+38.26, 26.61 Rt.
 CP 419 Found 5/8 Rebar
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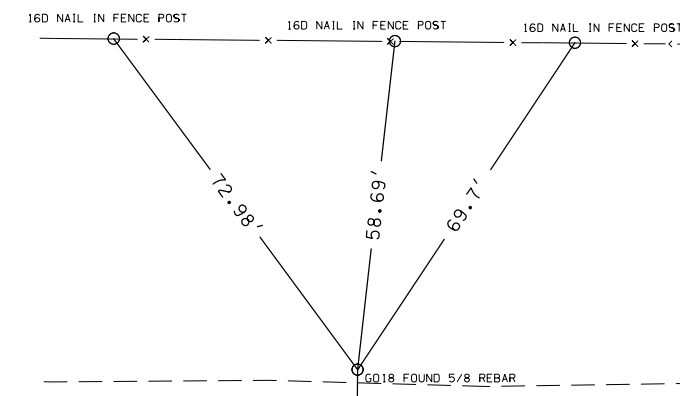
CP STA. 465+44.01, 87.84 Rt.
 CP 17 Found Conc Monument
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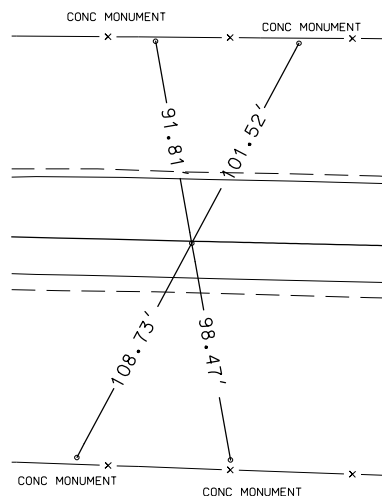
CP STA. 478+01.69, 29.65 Rt.
 CP 118 Found 5/8 Rebar
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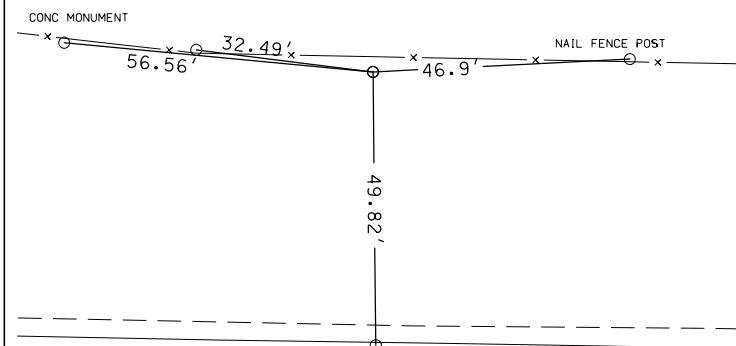
CP STA. 489+99.50, 29.50 Lt.
 CP 18 Found 5/8 Rebar
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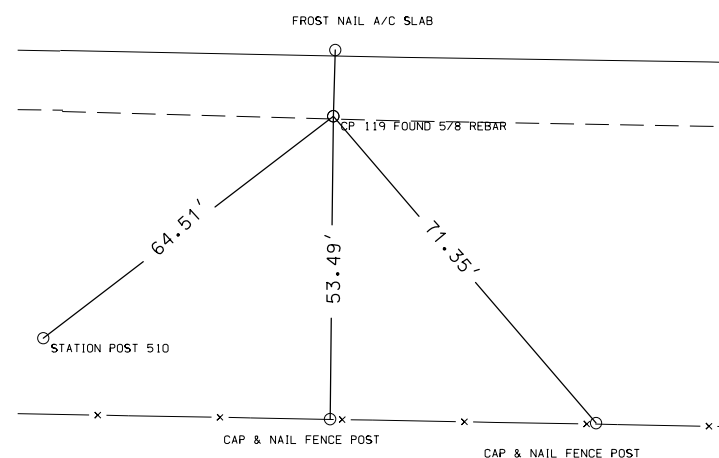
PI STA. 491+88.24
 PI 406 Found PK Nail
 N=3648082.8170, E=4270508.5610



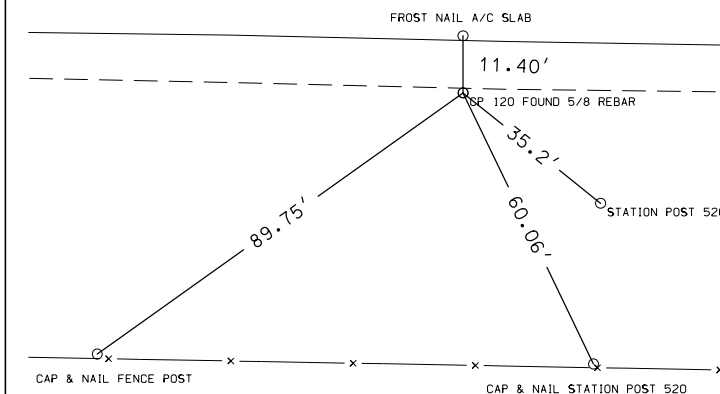
CP STA. 501+35.29, 77.107 Lt.
 CP 19 Found Conc Monument
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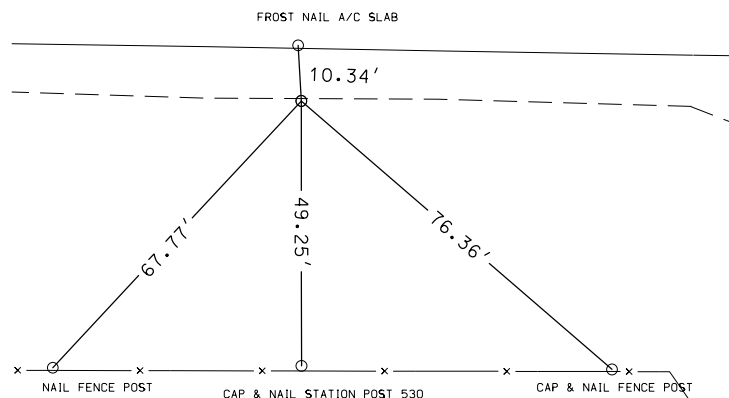
CP STA. 510+54.03, 26.39 Rt.
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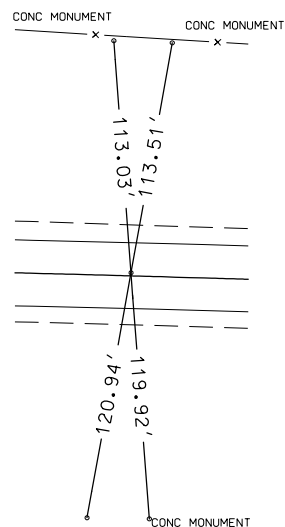
CP STA. 519+78.03, 26.20 Rt.
 CP 120 Found 5/8 Rebar
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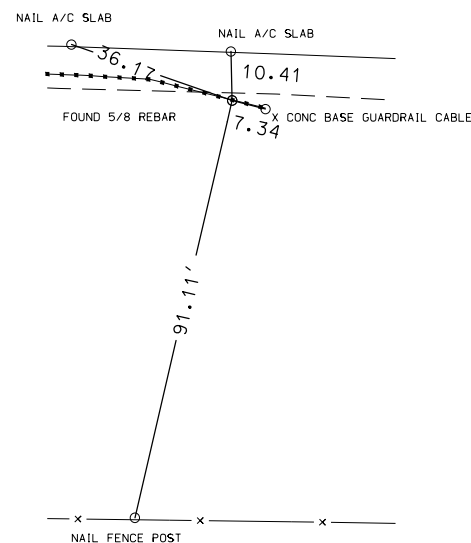
CP STA. 529+01.00, 25.70 Rt.
 CP 20 Found 5/8 Rebar
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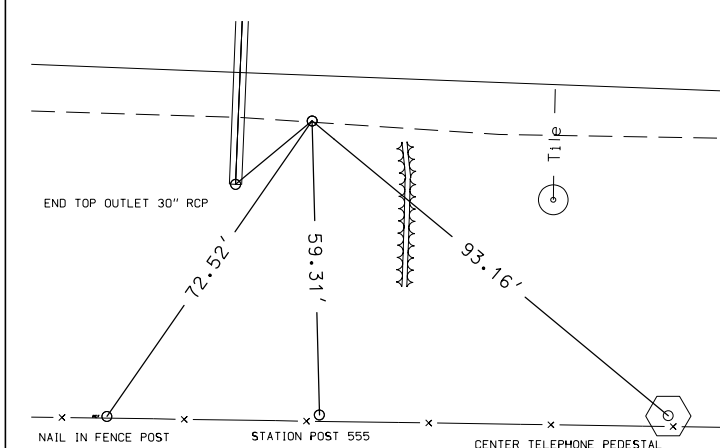
PI STA. 533+05.21
 PI 407 Found PK Nail
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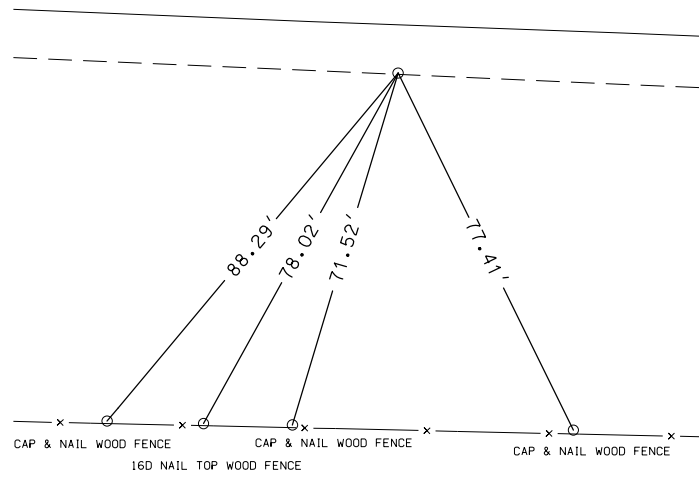
CP STA. 542+06.59, 25.95 Rt.
 CP 121 Found 5/8 Rebar
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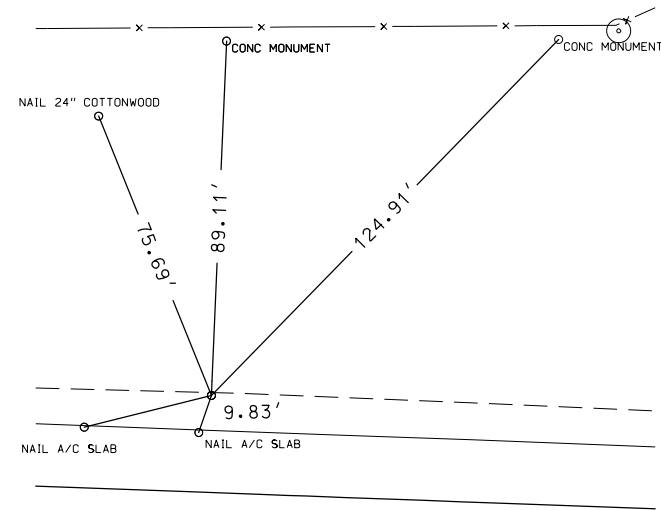
CP STA. 554+93.44, 24.93 Rt.
 CP 21 Found 5/8 Rebar
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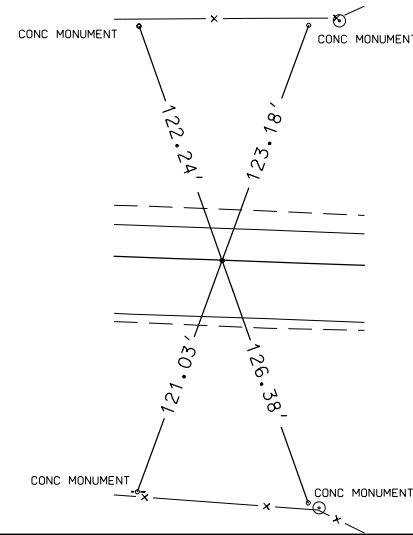
CP STA. 567+47.99, 25.35 Rt.
 CP 122 Found 5/8 Rebar
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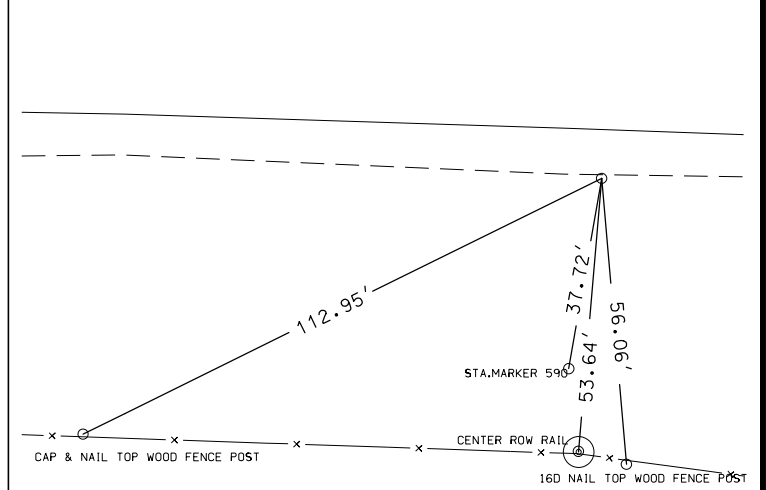
CP STA. 580+03.76, 24.36 Lt.
 CP 22 Found 5/8 Rebar
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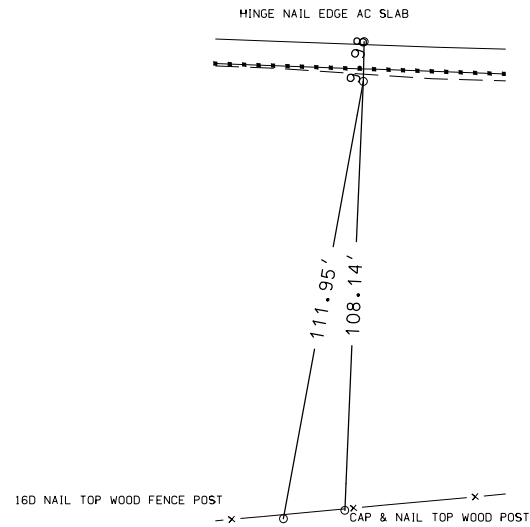
PI STA. 580+49.39.
 CP 408 Found PK Nail
 N=3647831.3460, E=4279365.7130



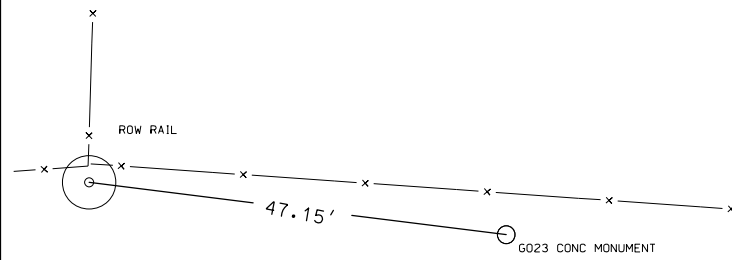
CP STA. 590+07.19, 25.75 Rt.
 CP 123 Found Rebar
 N=3647771.3800, E=4280321.9830



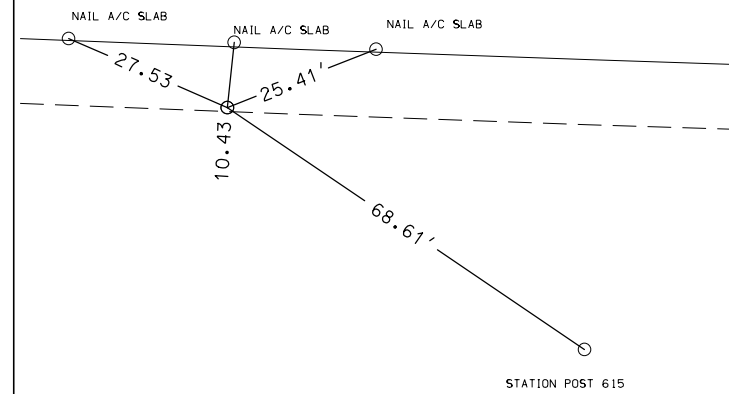
CP STA. 600+02.92, 25.49 Rt.
 CP 124 Found Rebar
 N=3647736.0510, E= 4281317.0850



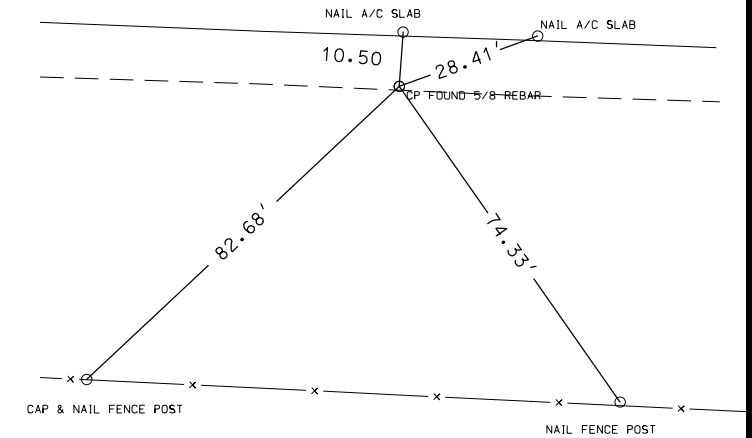
CP STA. 610+00.02, 136.159 Lt.
 CP 23 Found Conc Monument
 N=3647861.9560, E=4282319.3190



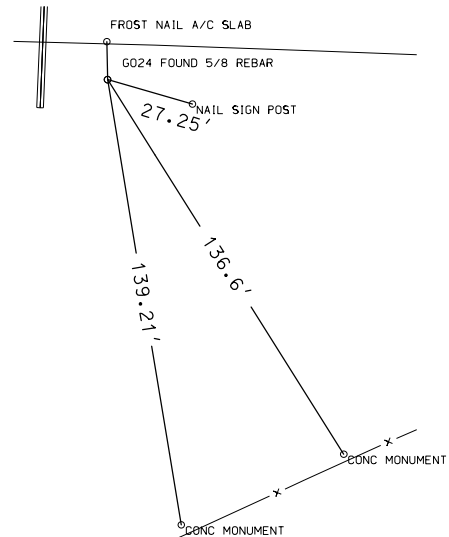
CP STA. 614+45.82, 25.15 Rt.
 CP 125 Found Rebar
 N=3647684.8140, E=4282759.0730



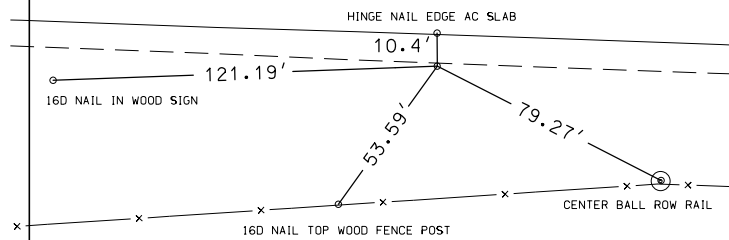
CP STA. 623+33.61, 25.22 Rt.
 CP 126 Found Rebar
 N=3647653.0180, E=4283646.2910



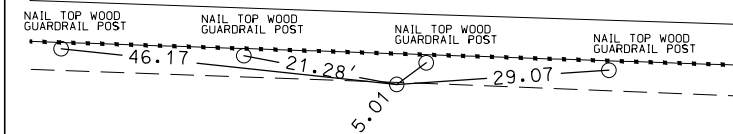
CP STA. 636+44.25, 26.84 Rt.
 CP 24 Found Rebar
 N=3647604.5520, E=4284956.0360



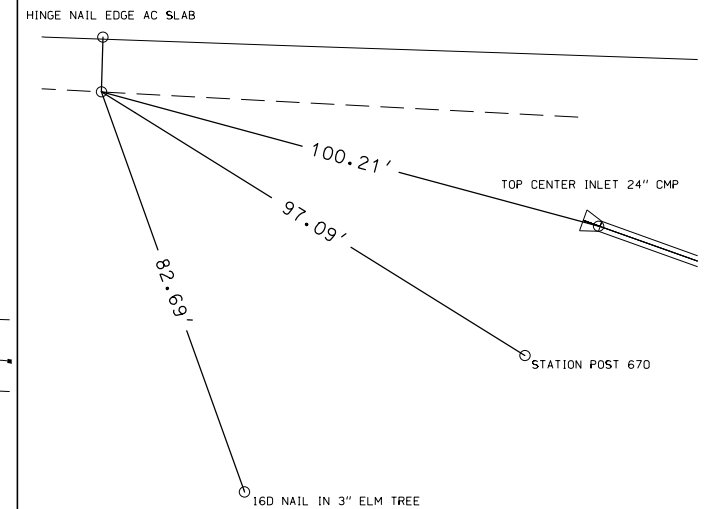
CP STA. 647+32.34, 25.50 Rt.
 CP 127 Found Rebar
 N=3647566.9980, E=4286043.4790

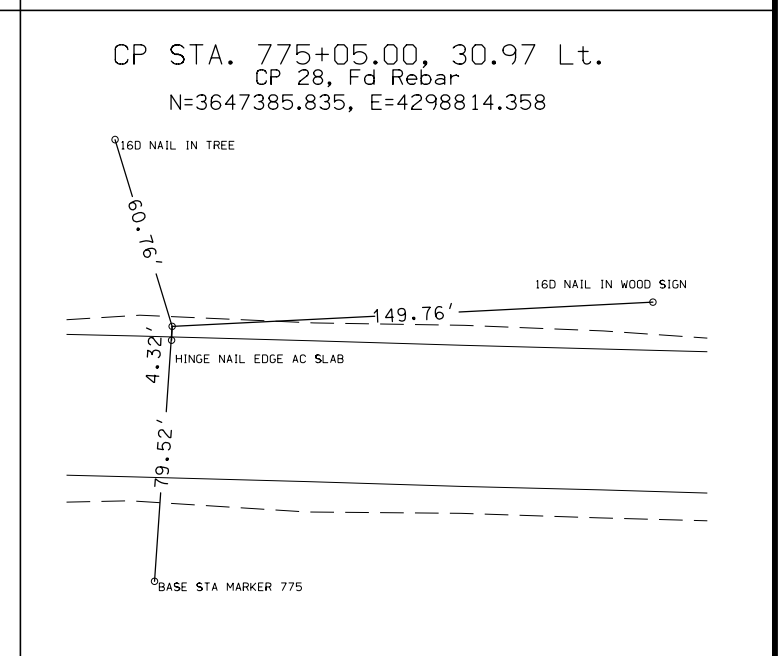
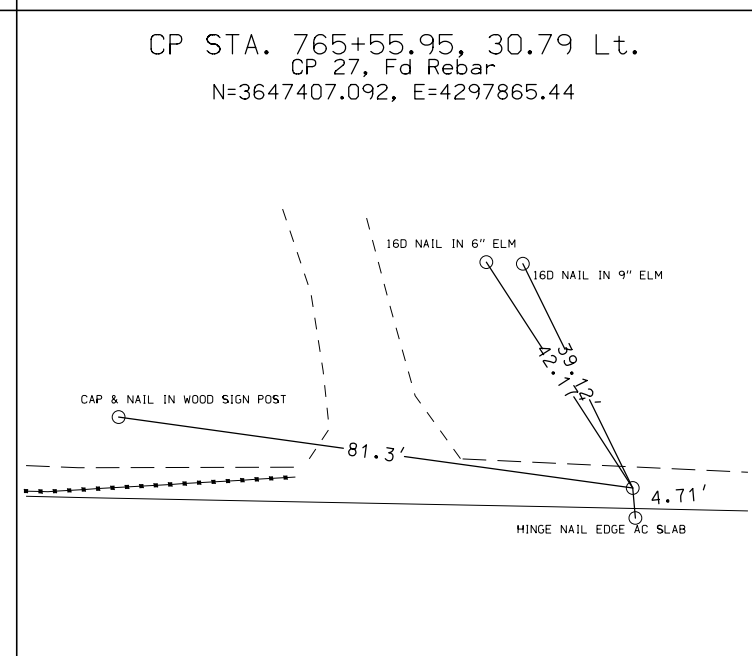
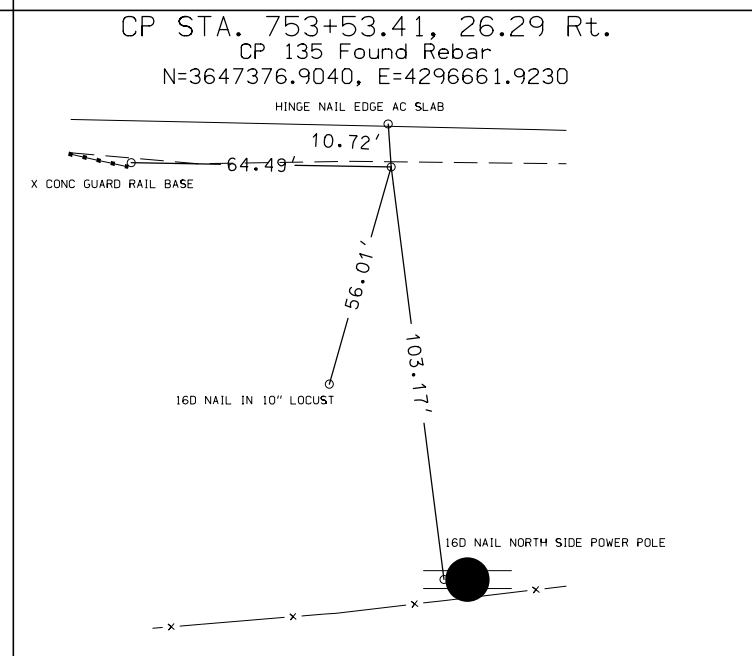
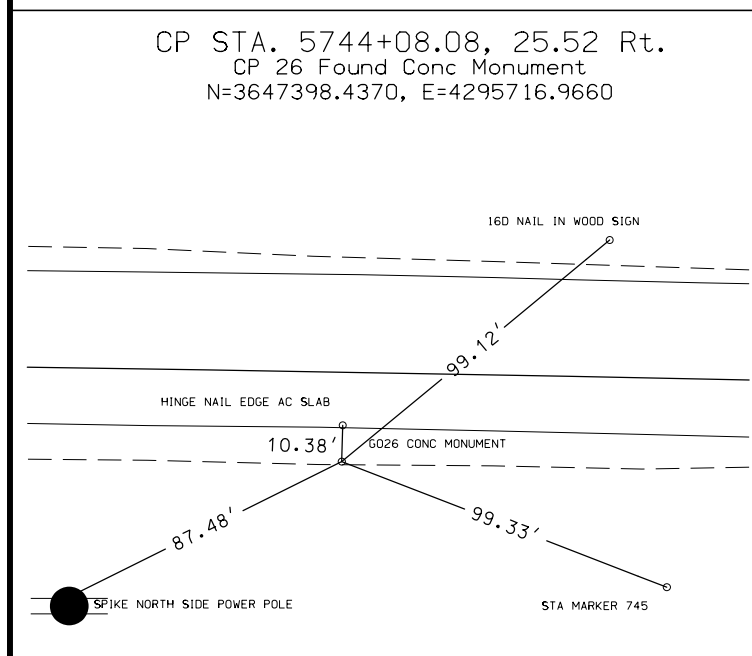
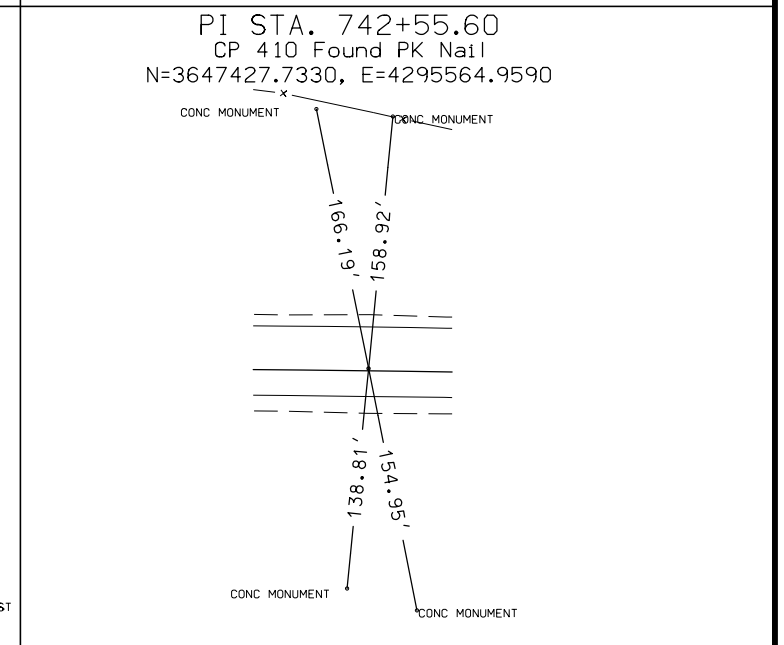
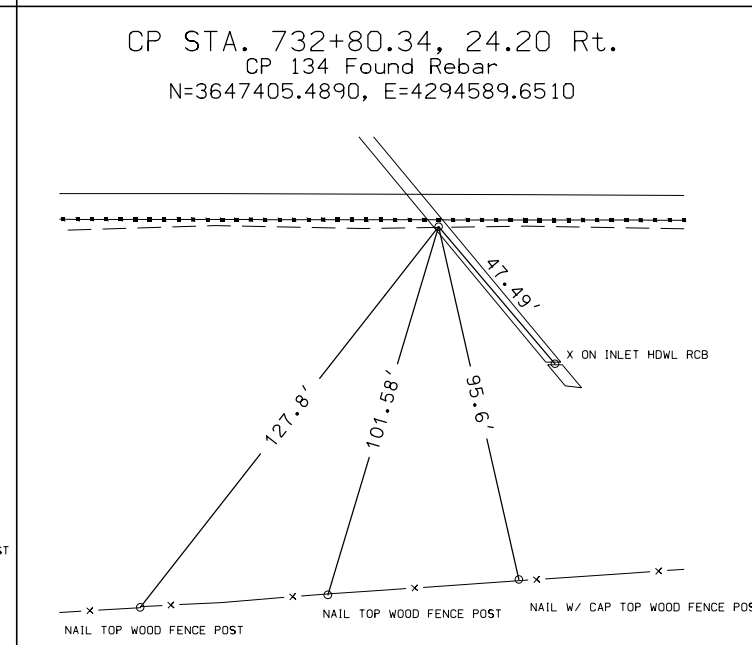
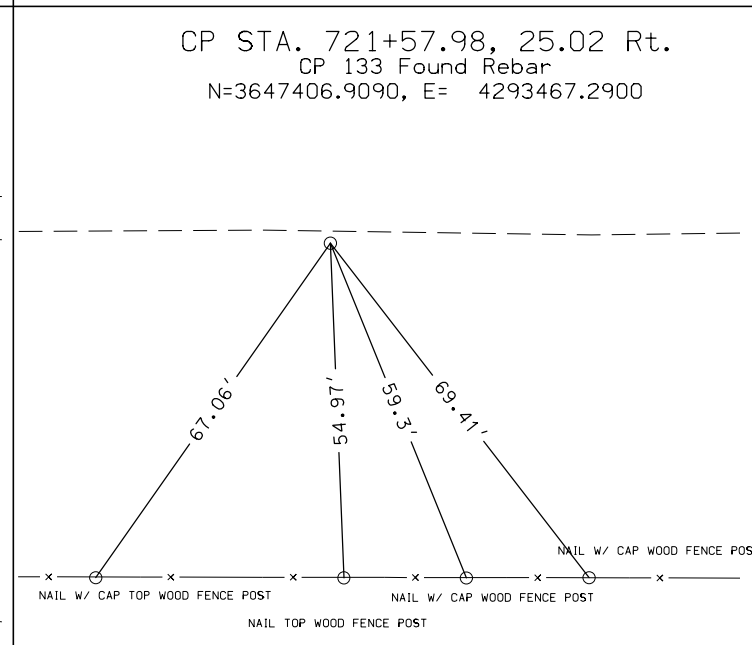
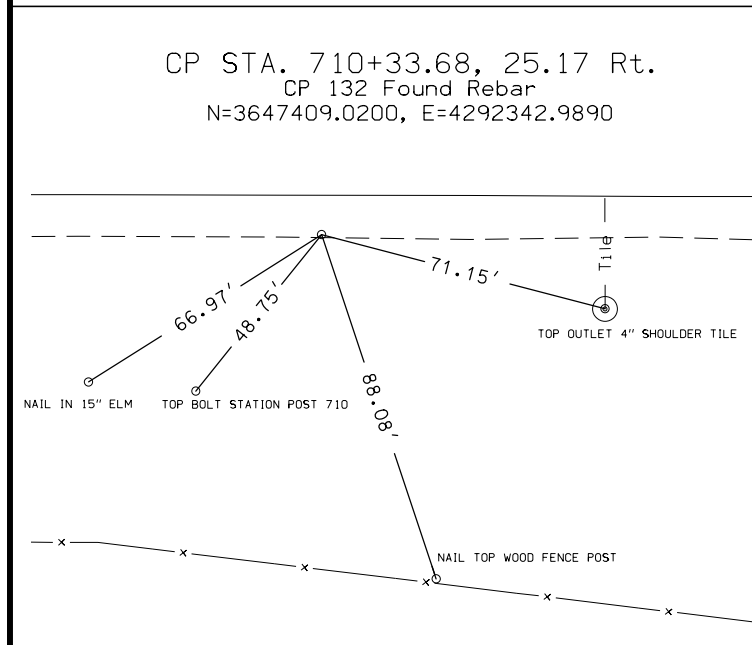
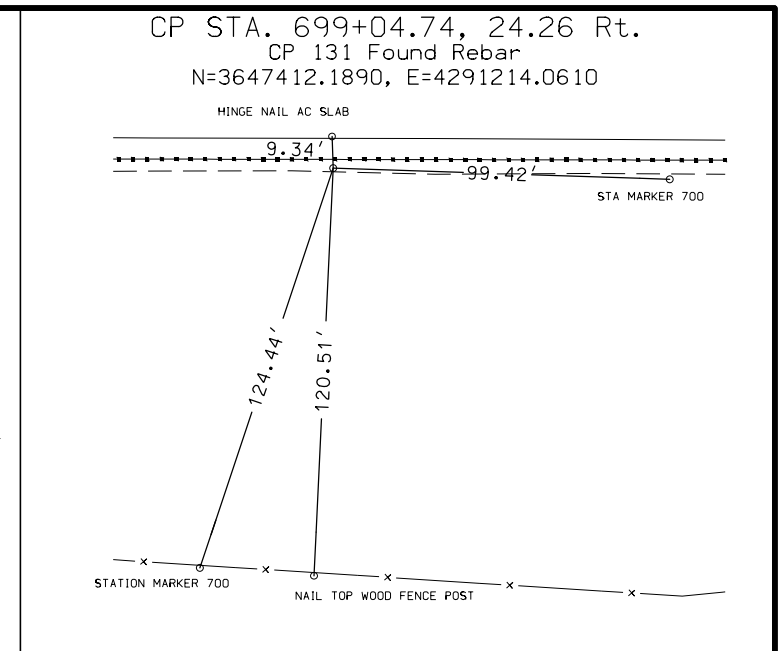
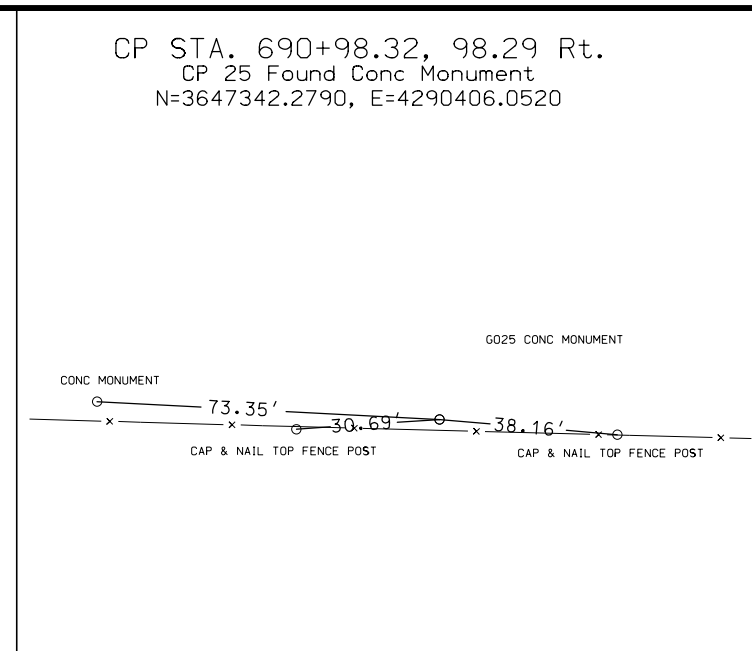
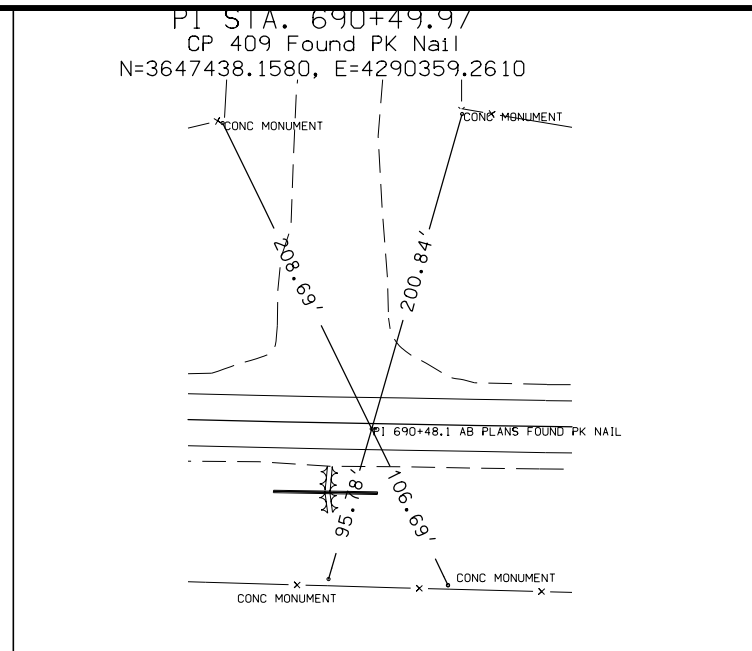
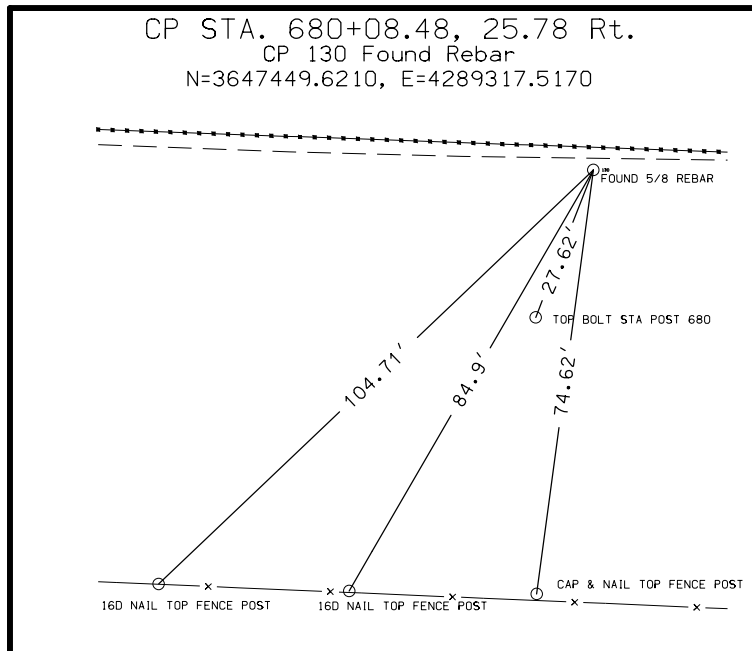


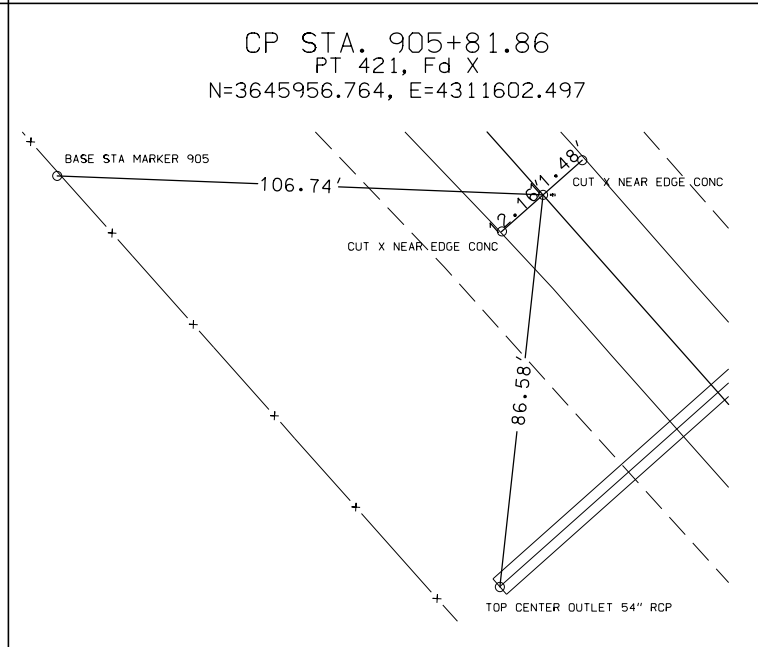
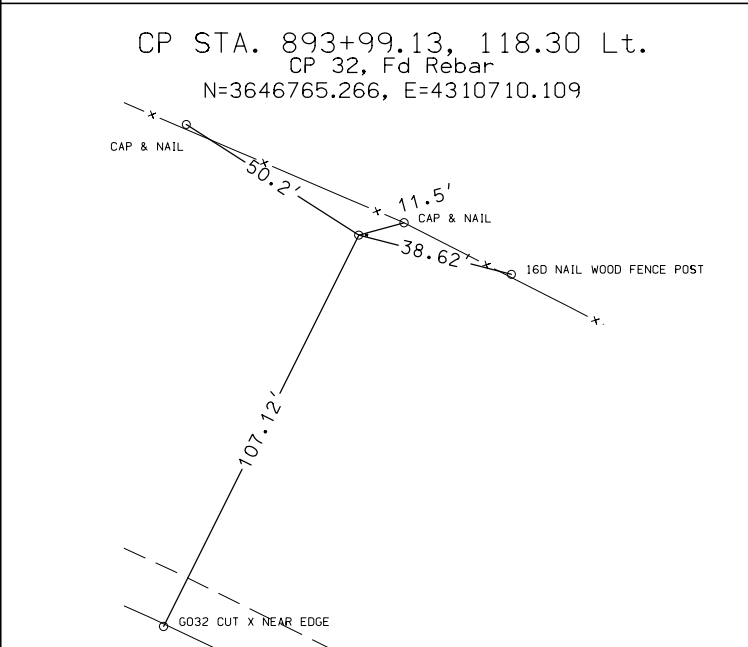
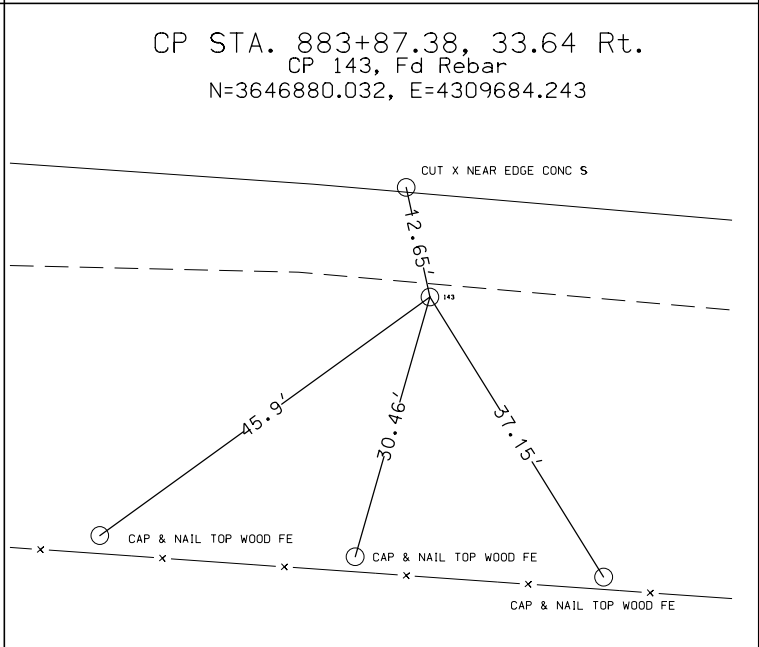
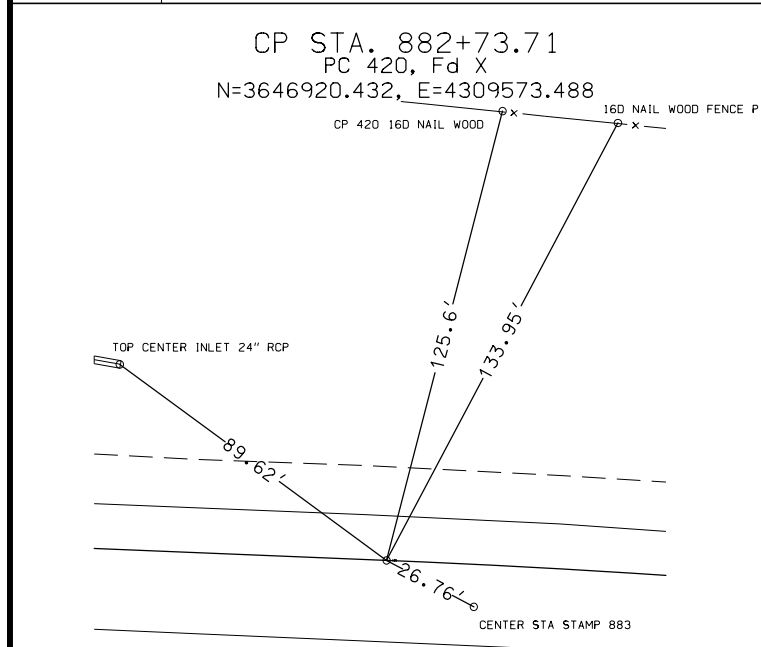
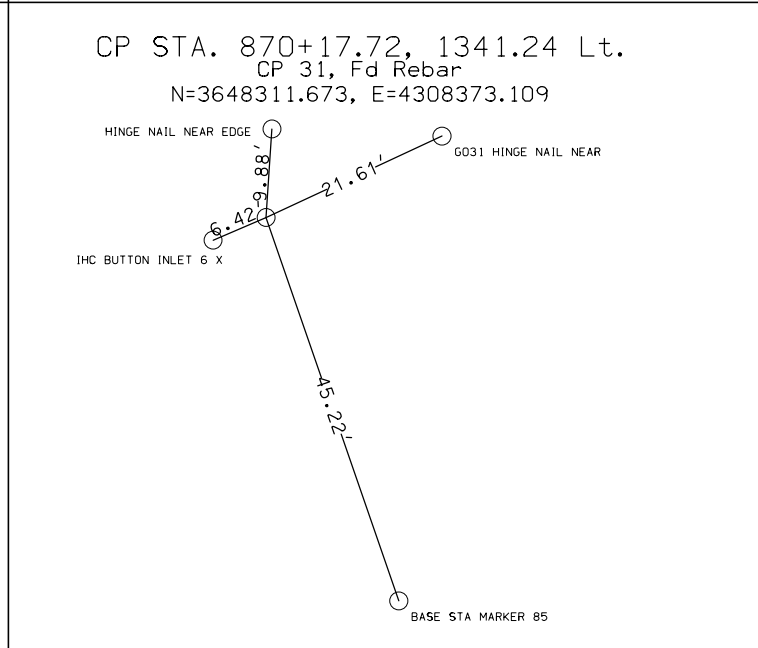
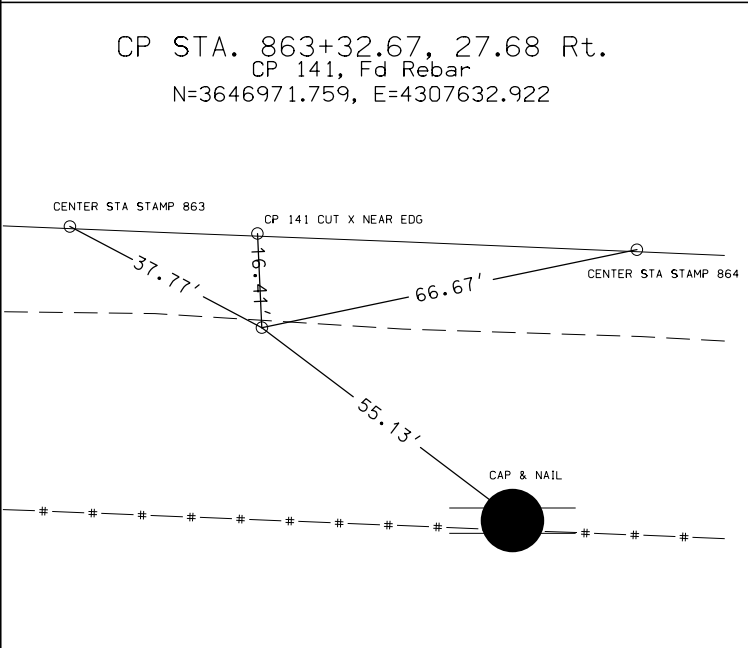
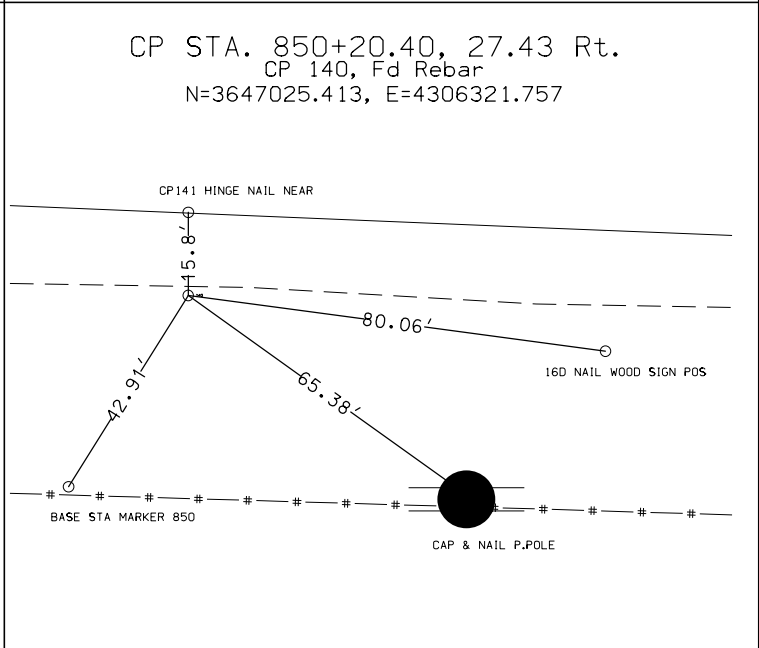
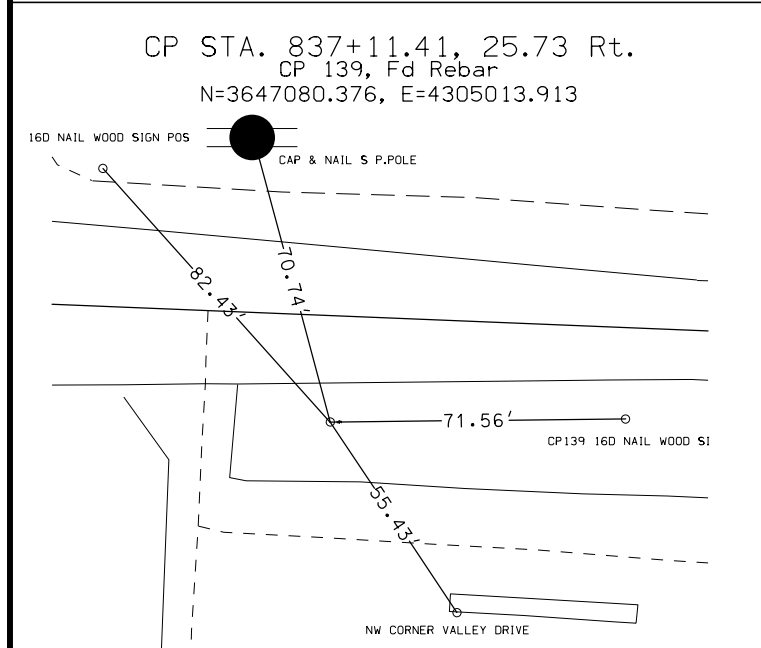
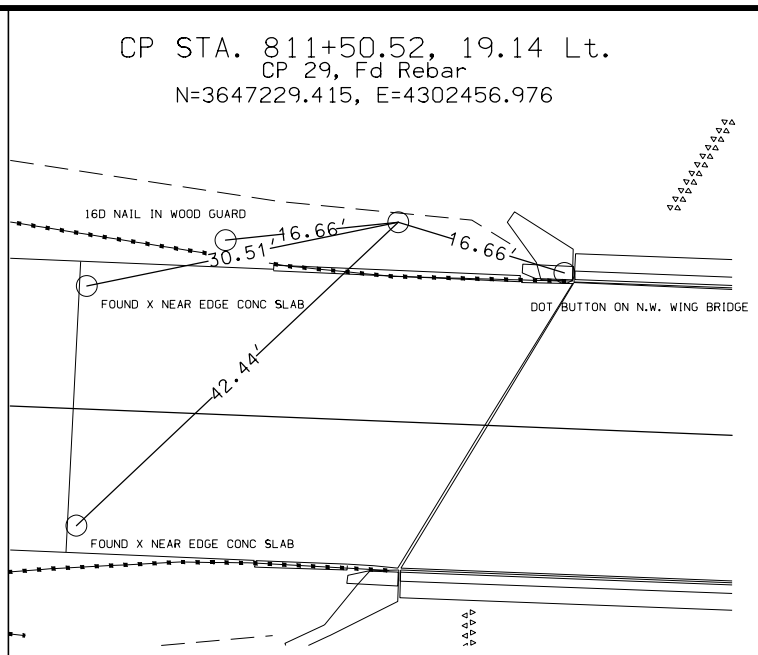
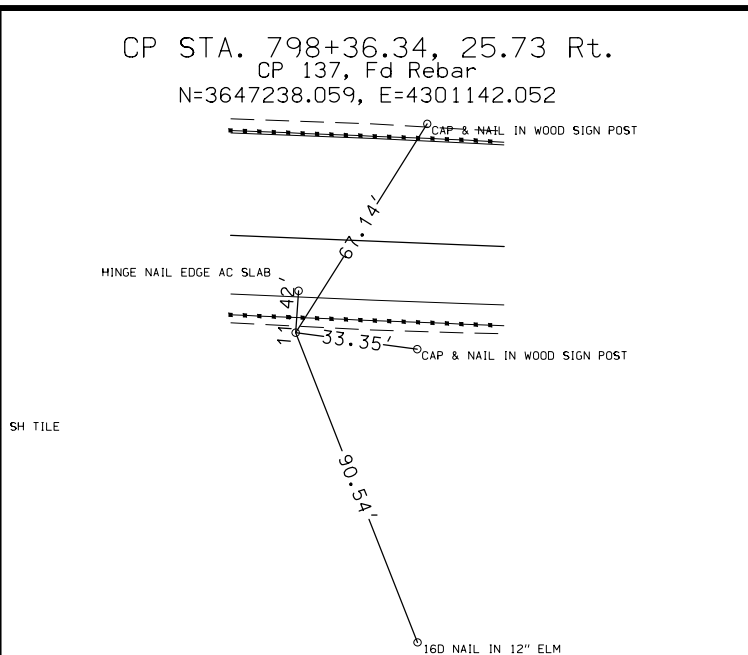
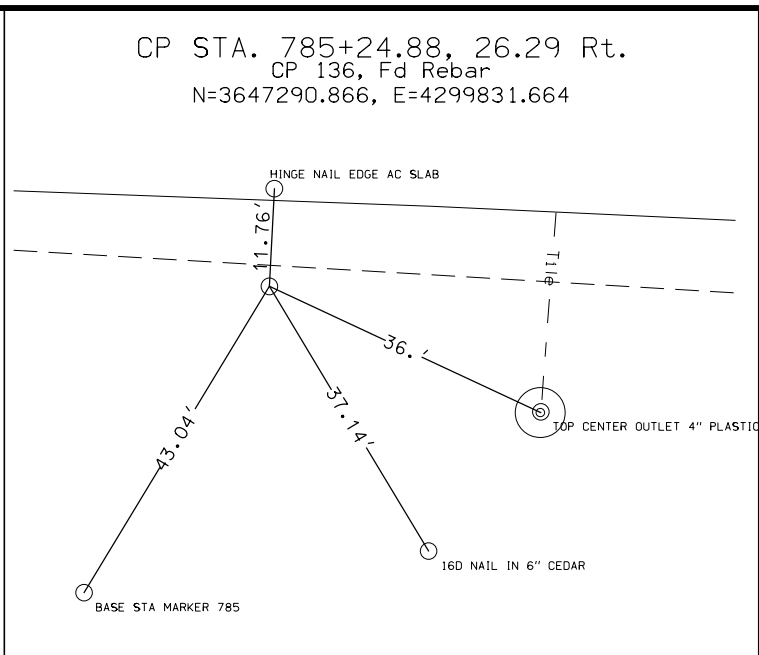
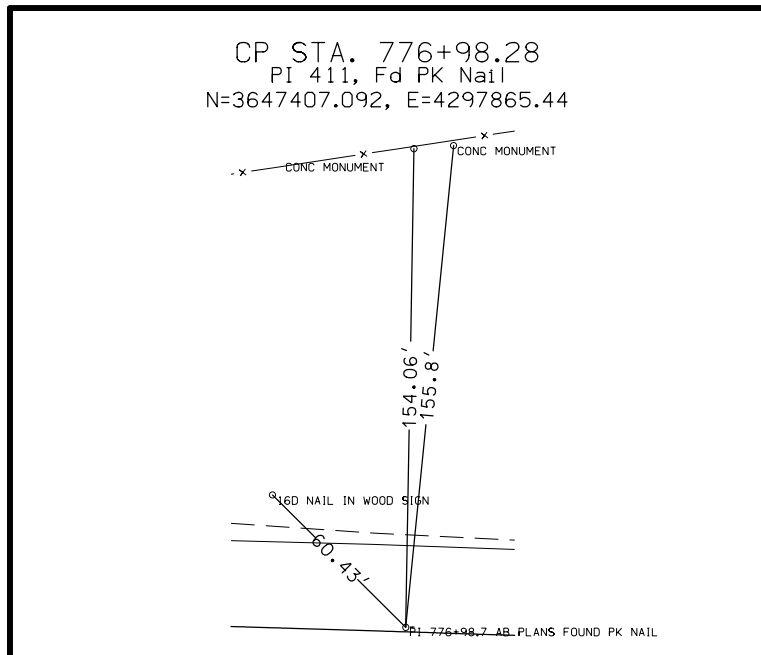
CP STA. 658+22.76, 25.30 Rt.
 CP 128 Found Rebar
 N=3647528.2180, E=4287133.2130

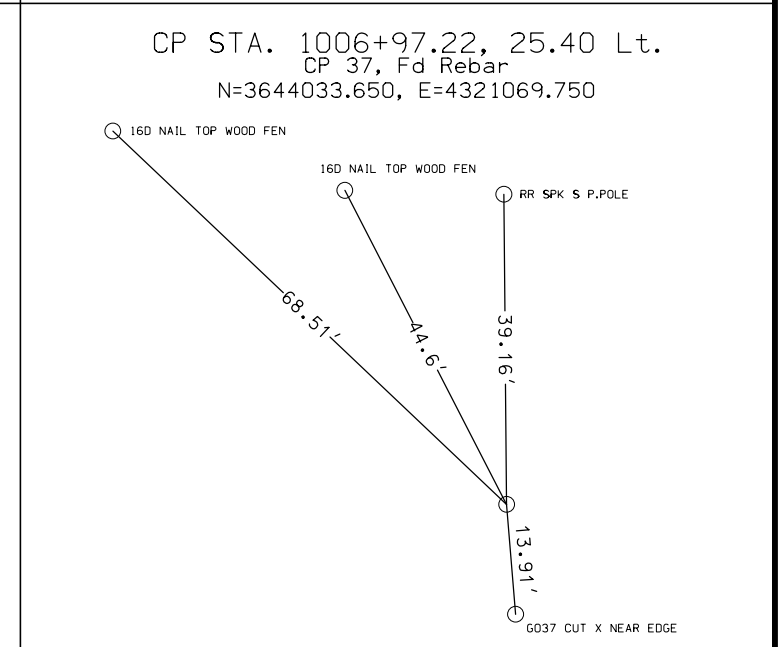
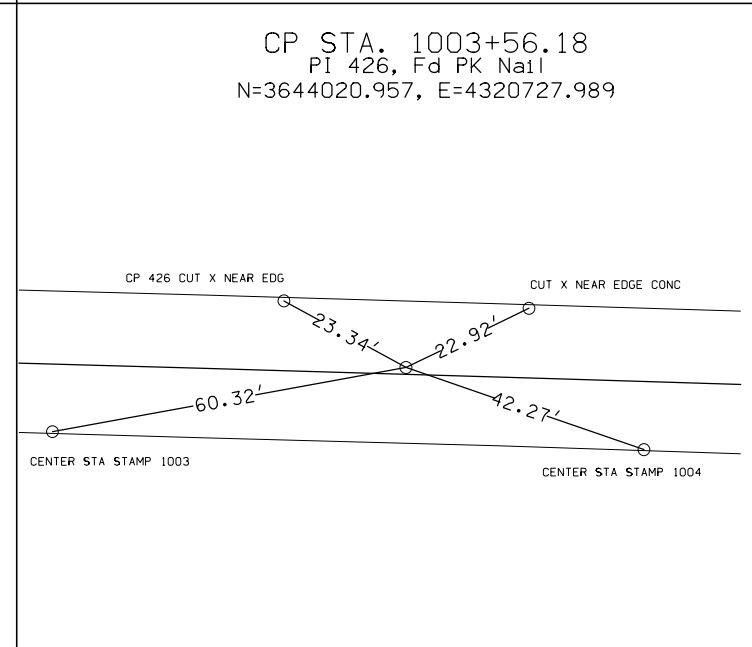
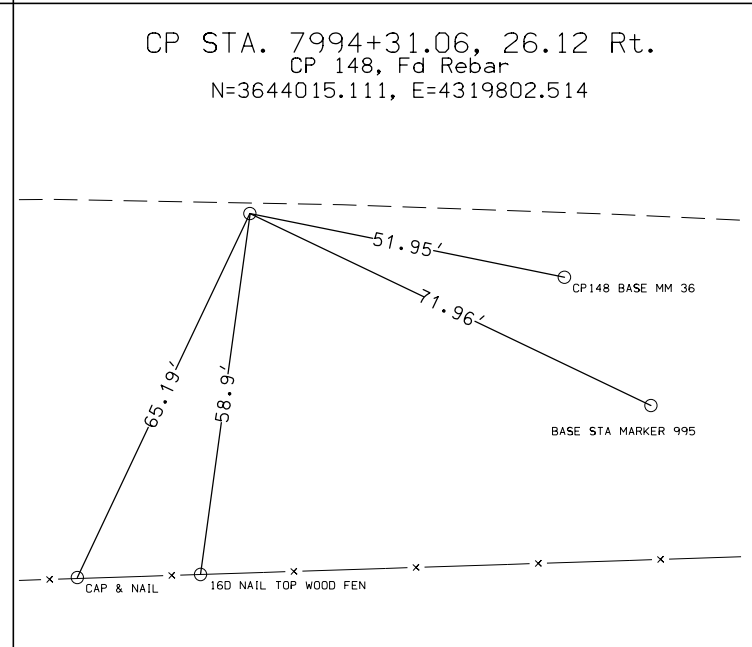
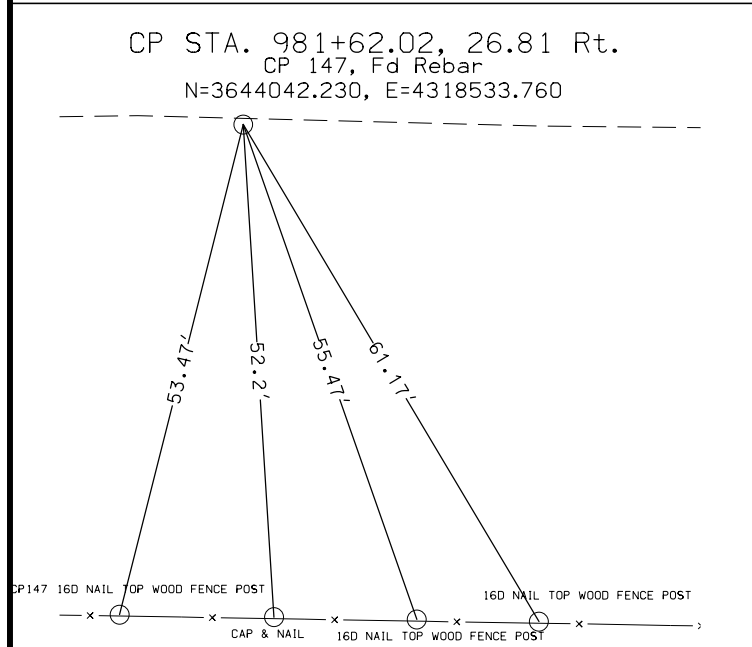
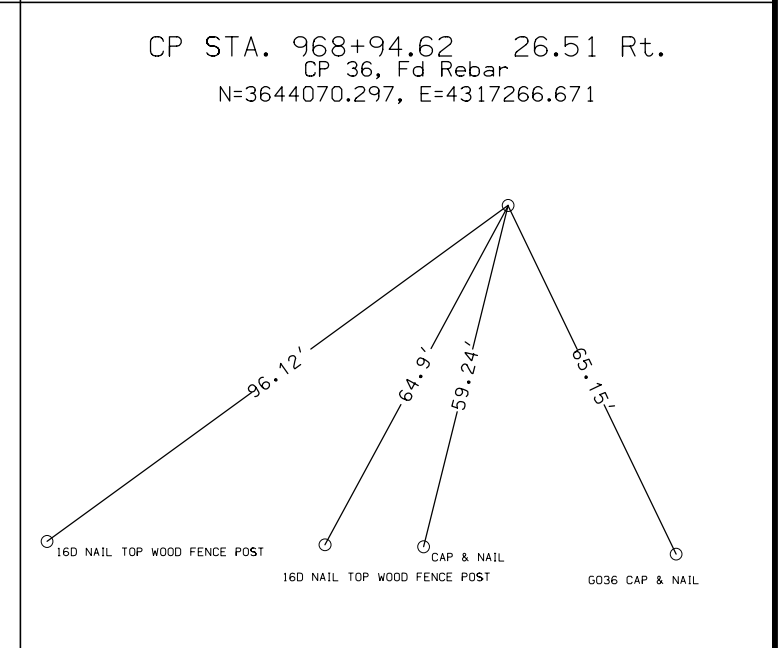
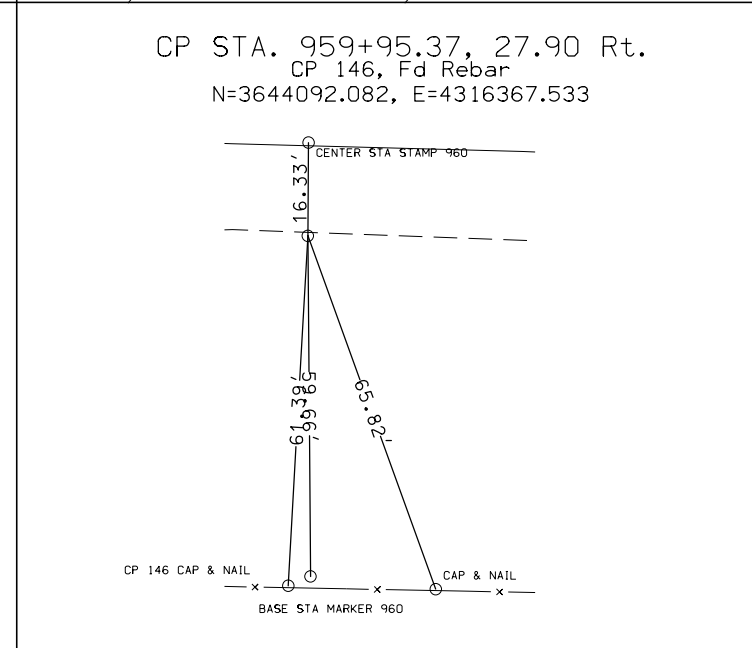
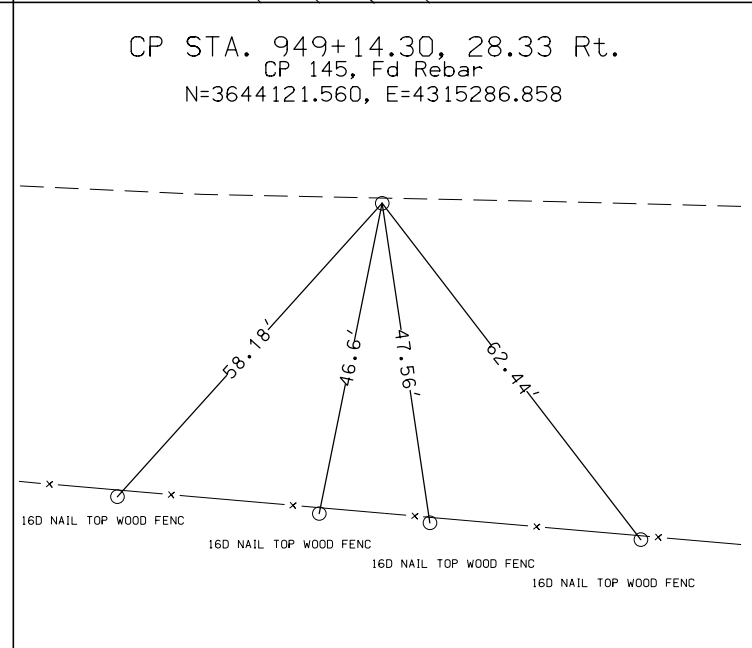
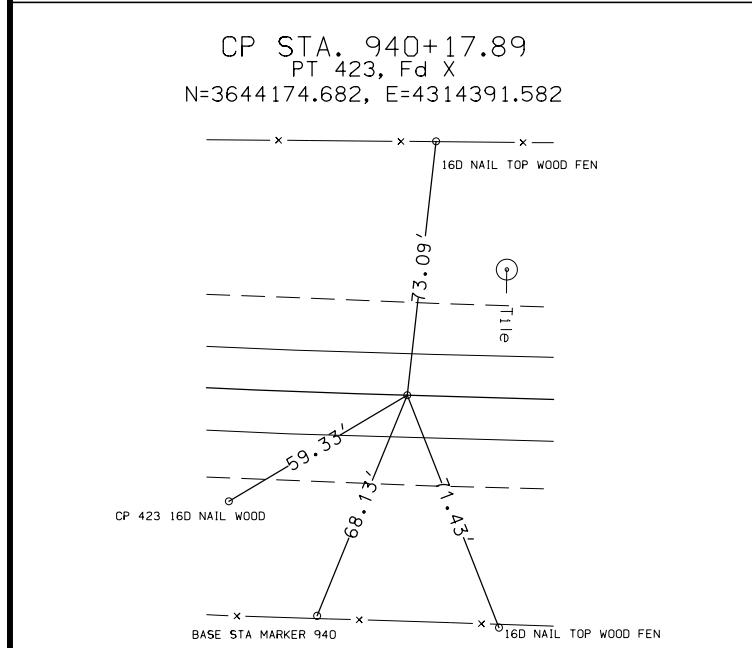
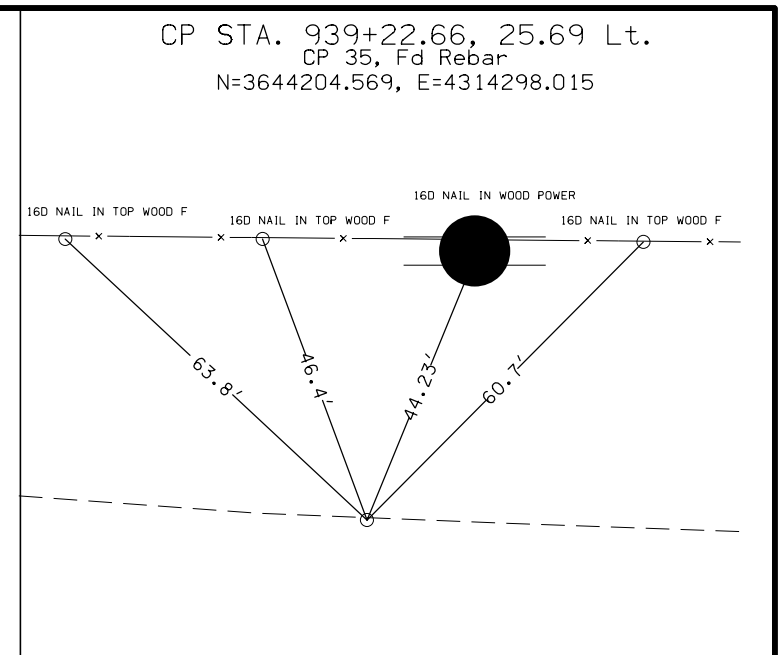
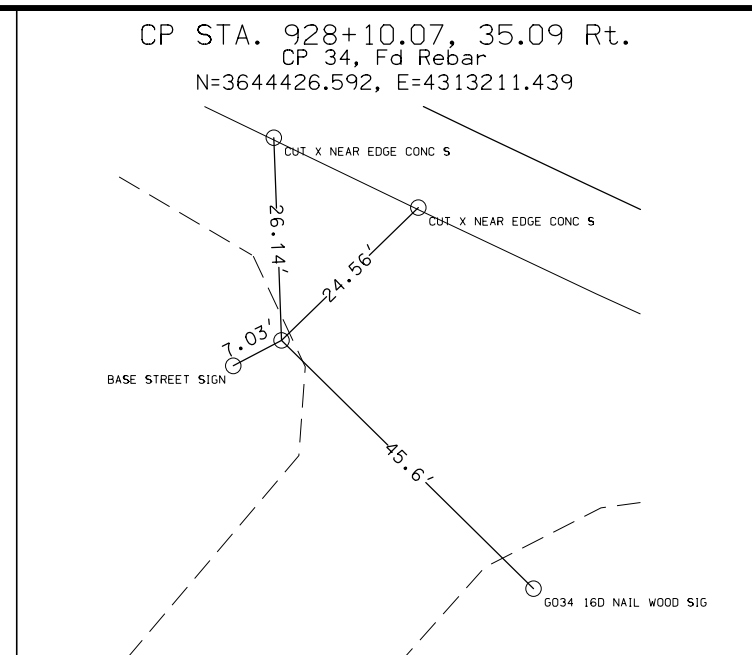
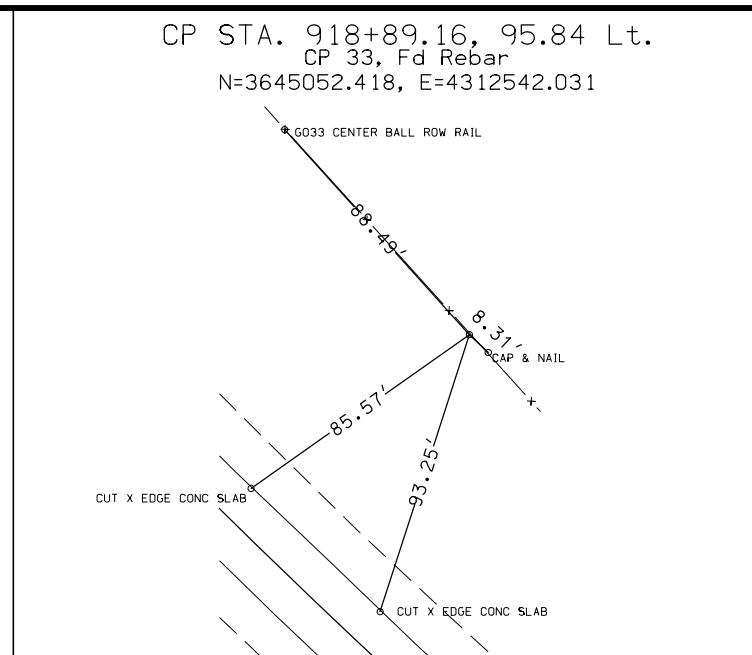
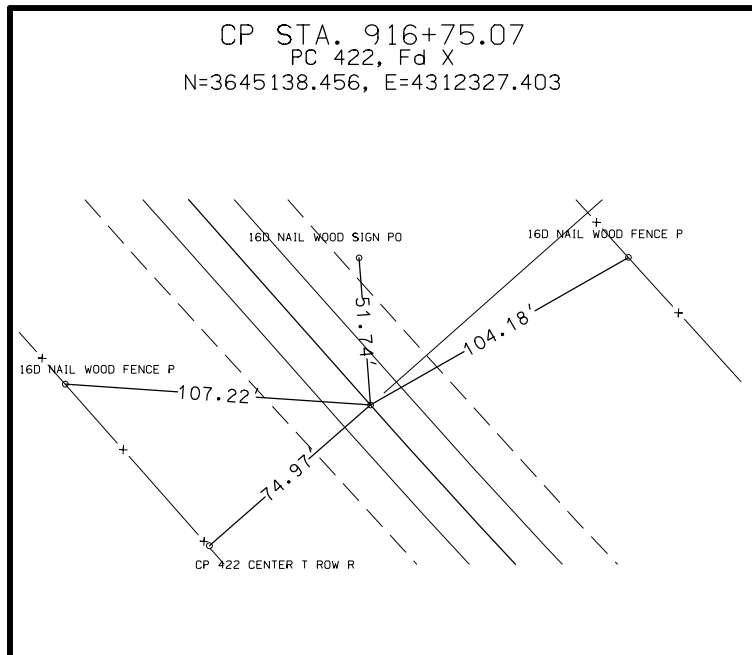


CP STA. 669+14.08, 25.81 Rt.
 CP 129 Found Rebar
 N=3647488.7090, E=4288223.8160









PARCEL CHECK BY PROJ UPDATED 03/20/13 08:36

PAGE: 1

AND: 2

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : WOODBURY PROJECT NO. :STPN-031-1(33)--2J-97

PIN: 98-97-020010-03

CONSTRUCTION NO.:STPN-031-1(31)--2J-97

ASSIGNED TO: SJD

DESCRIPTION : Ia. 31 At Correctionville

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC ENVIRONMENTAL CONCERNS
--------	-----	-------	------	------------------	---------------------	----------------	------------	----------------------------

0001	26718	PHYLLIS E. BRAUNINGER TRUSTEES ROBERT G. BRAUNINGER TRUSTEES ROBERT G. BRAUNINGER REVOCABLE TRUST	FEE CORRECTIONVILLE CITY FEE FEE STATE OF IOWA	58,429.00 WD SQFT 190,970.00 EASE SQFT				
0002	26719	TOWN OF CORRECTIONVILLE	FEE STATE OF IOWA	6,782.00 EASE SQFT				
0003	26720	DANIEL BRAUNINGER	FEE STATE OF IOWA	33,433.00 EASE SQFT				
0004	26721	PHYLLIS E. BRAUNINGER TRUSTEE ROBERT A. BRAUNINGER TRUSTEE PHYLLIS E. BRAUNINGER REV TRUST	FEE STATE OF IOWA FEE FEE	11,814.00 EASE SQFT				
0005	26722	KELLY R. KOSKOVICH CO-EXE KEVERN R. KOSKOVICH CO-EXE RUSSELL C. KOSKOVICH DECEASED	FEE CORRECTIONVILLE CITY FEE FEE	1,562.00 WD SQFT				
0006	26723	DONNA J. HOAG DONNIE M. HOAG	FEE CORRECTIONVILLE CITY FEE	218.00 WD SQFT				
0007	26724	CLARK BRAUNINGER LE FRED BRAUNINGER LE	FEE STATE OF IOWA FEE	166,410.00 EASE SQFT 0.11 WD ACRE				

CITY of CORRECTIONVILLE

60,209.00 WARRANTY DEED SQFT

STATE OF IOWA

409,409.00 EASEMENT SQFT

0.11 WARRANTY DEED ACRES

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER
COUNTY : WOODBURY PROJECT NO. :STPN-031-1(33)--2J-97 PIN: 98-97-020010-03
CONSTRUCTION NO.:STPN-031-1(31)--2J-97 ASSIGNED TO: SJD

DESCRIPTION : Ia. 31 At Correctionville

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC ENVIRONMENTAL CONCERNS
--------	-----	-------	------	------------------	---------------------	----------------	------------	----------------------------

7 TOTAL PARCELS ON PROJECT

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel
 ROW #: STPN-31-1(33)-2J-97
 Plan Date: 3/20/13
 Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

For Mainline Details Refer to Sheet No. D.2

ROBERT G. BRAUNINGER REV TRUST
 PHYLLIS E. & ROBERT G. BRAUNINGER (TRUSTEES)

KEDRON TWP.
 T-88N R-43W
 SEC. 1

Sect. No. 1



CITY OF CORRECTIONVILLE

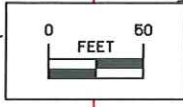
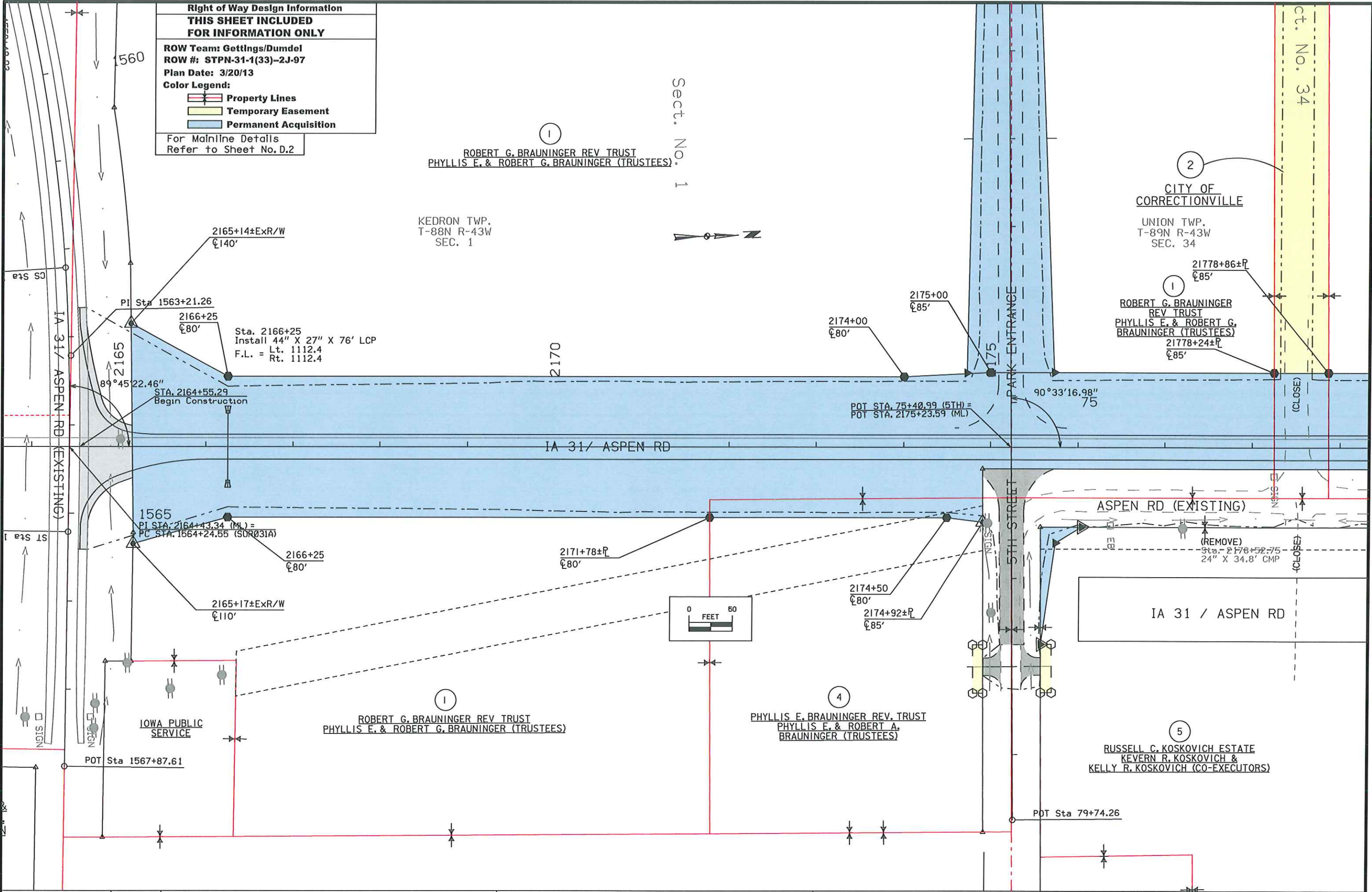
UNION TWP.
 T-89N R-43W
 SEC. 34

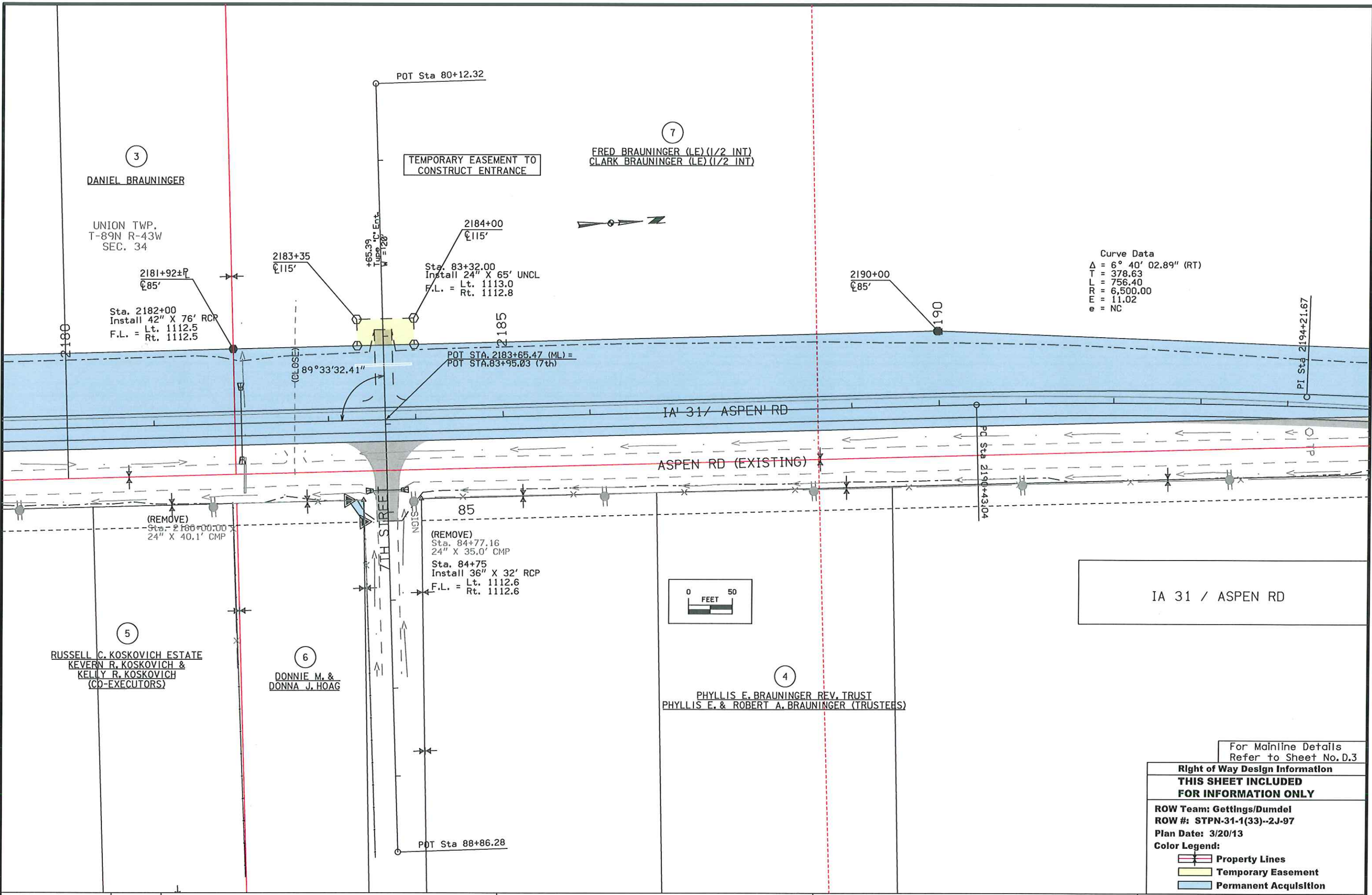
ROBERT G. BRAUNINGER REV TRUST
 PHYLLIS E. & ROBERT G. BRAUNINGER (TRUSTEES)

IA 31 / ASPEN RD

PHYLLIS E. BRAUNINGER REV. TRUST
 PHYLLIS E. & ROBERT A. BRAUNINGER (TRUSTEES)

RUSSELL C. KOSKOVICH ESTATE
 KEVERN R. KOSKOVICH & KELLY R. KOSKOVICH (CO-EXECUTORS)





Curve Data
 $\Delta = 6^\circ 40' 02.89''$ (RT)
 $T = 378.63$
 $L = 756.40$
 $R = 6,500.00$
 $E = 11.02$
 $e = NC$

For Mainline Details
Refer to Sheet No. D.3

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel
ROW #: STPN-31-1(33)--2J-97
Plan Date: 3/20/13

Color Legend:
 Property Lines
 Temporary Easement
 Permanent Acquisition

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel

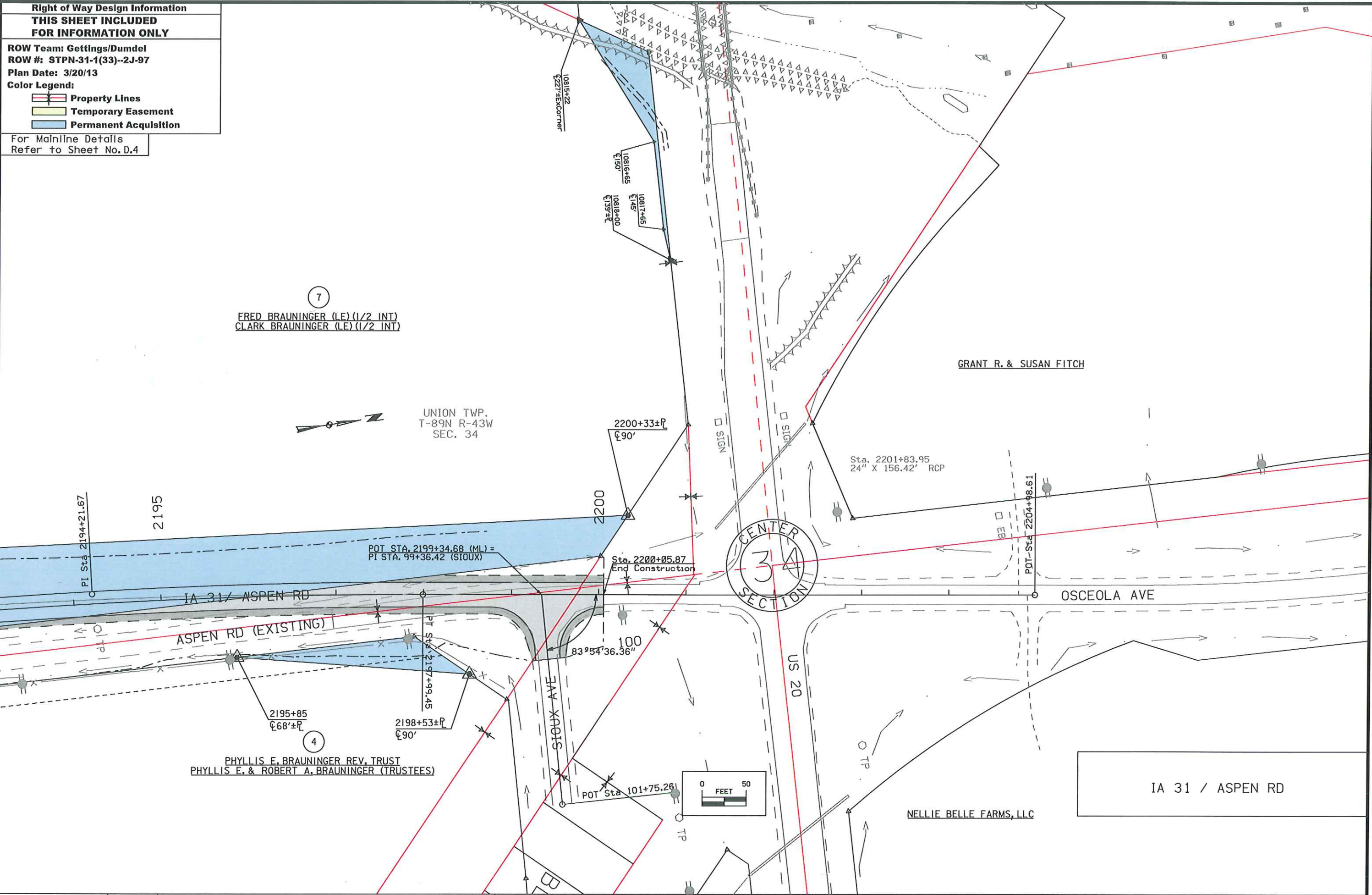
ROW #: STPN-31-1(33)--2J-97

Plan Date: 3/20/13

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

For Mainline Details Refer to Sheet No. D.4



7
 FRED BRAUNINGER (LE) (1/2 INT)
 CLARK BRAUNINGER (LE) (1/2 INT)

UNION TWP.
 T-89N R-43W
 SEC. 34

GRANT R. & SUSAN FITCH

4
 PHYLLIS E. BRAUNINGER REV. TRUST
 PHYLLIS E. & ROBERT A. BRAUNINGER (TRUSTEES)

NELLIE BELLE FARMS, LLC

IA 31 / ASPEN RD

LOT 32

3 DANIEL BRAUNINGER

5 RUSSELL C. KOSKOVICH ESTATE
KEVERN R. KOSKOVICH &
KELLY R. KOSKOVICH
(CO-EXECUTORS)

2 CITY OF
CORRECTIONVILLE

LOT 34

1 ROBERT G. BRAUNINGER REV TRUST
PHYLLIS E. & ROBERT G. BRAUNINGER (TRUSTEES)
Sta. 72+00
Install 18" X 36.5' UNCL
F.L. = Lt. 1114.47
Rt. 1114.36

5 RUSSELL C. KOSKOVICH ESTATE
KEVERN R. KOSKOVICH &
KELLY R. KOSKOVICH (CO-EXECUTORS)

74+66±PropR/W
±50'

POT STA. 2175+23.80 (ML) =
PI STA. 75+50.99 (5TH)

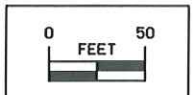
1 KEDON TWP.
T-88N R-43W
SEC. 1

Sta. 72+00
Install 18" X 36.5' UNCL
F.L. = Lt. 1114.41
Rt. 1114.31

74+66±PropR/W
±50'

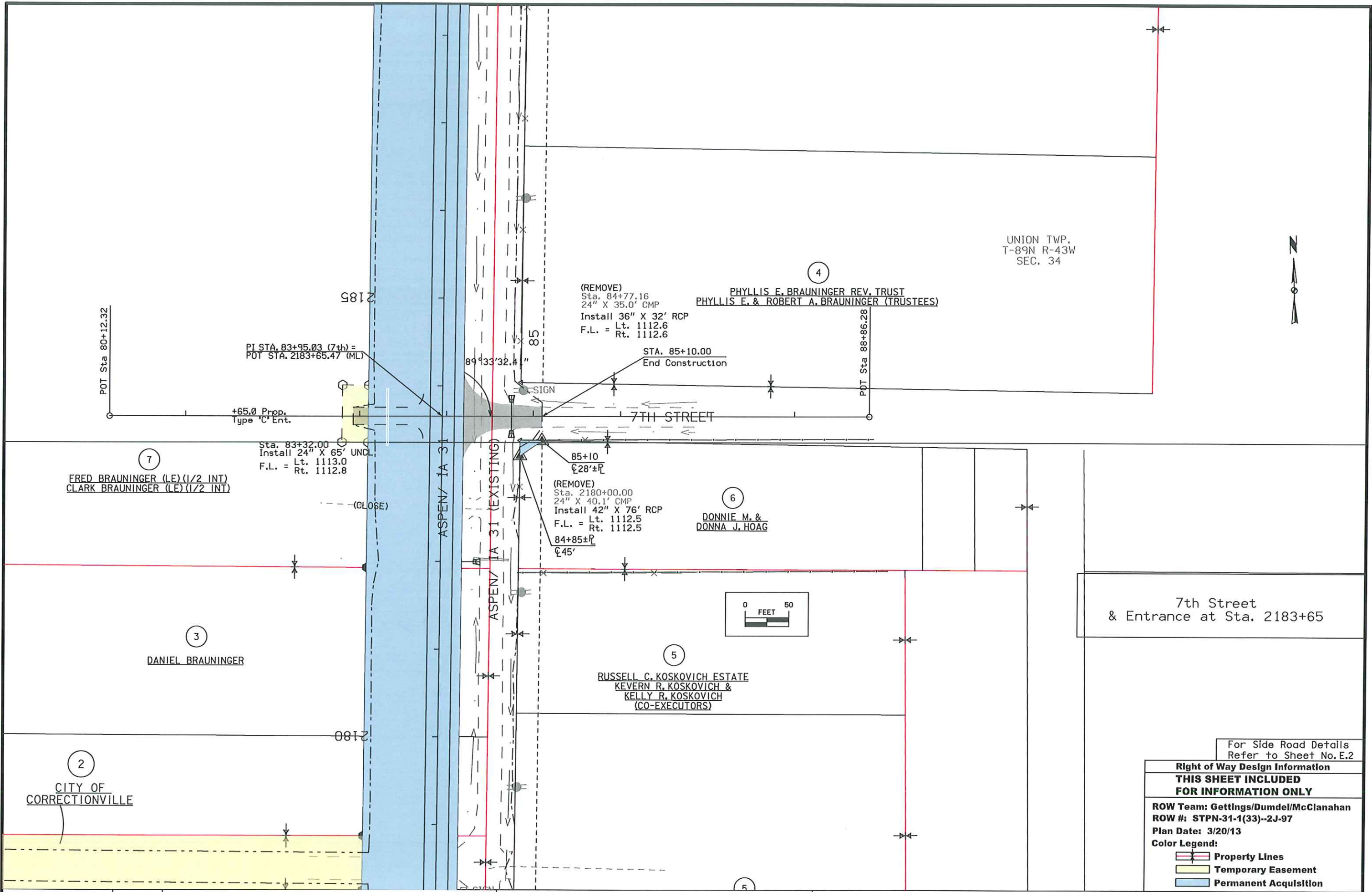
1 ROBERT G. BRAUNINGER REV TRUST
PHYLLIS E. & ROBERT G. BRAUNINGER (TRUSTEES)

4 PHYLLIS E. BRAUNINGER REV. TRUST
PHYLLIS E. & ROBERT A.
BRAUNINGER (TRUSTEES)



Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Gettings/Dumdel/McClanahan	
ROW #: STPN-31-1(33)--2J-97	
Plan Date: 3/20/13	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

For Side Road Details
Refer to Sheet No. E.1



UNION TWP.
T-89N R-43W
SEC. 34



4
PHYLIS E. BRAUNINGER REV. TRUST
PHYLIS E. & ROBERT A. BRAUNINGER (TRUSTEES)

(REMOVE)
Sta. 84+77.16
24" X 35.0' CMP
Install 36" X 32' RCP
Lt. 1112.6
F.L. = Rt. 1112.6

STA. 85+10.00
End Construction

PI STA. 83+95.03 (7th) =
POT STA. 2183+65.47 (ML)

+65.0 Prop.
Type 'C' Ent.

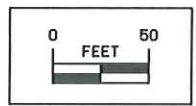
7
FRED BRAUNINGER (L.E) (1/2 INT)
CLARK BRAUNINGER (L.E) (1/2 INT)

Sta. 83+32.00
Install 24" X 65' UNCL.
F.L. = Lt. 1113.0
Rt. 1112.8

6
DONNIE M. &
DONNA J. HOAG

(REMOVE)
Sta. 2180+00.00
24" X 40.1' CMP
Install 42" X 76' RCP
F.L. = Lt. 1112.5
Rt. 1112.5

7th Street
& Entrance at Sta. 2183+65



3
DANIEL BRAUNINGER

5
RUSSELL C. KOSKOVICH ESTATE
KEVERN R. KOSKOVICH &
KELLY R. KOSKOVICH
(CO-EXECUTORS)

2
CITY OF
CORRECTIONVILLE

For Side Road Details
Refer to Sheet No. E.2

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Gettings/Dumdel/McClanahan
ROW #: STPN-31-1(33)--2J-97
Plan Date: 3/20/13

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

LINE STYLE LEGEND OF CROSS SECTION SHEETS (ROAD)

- - - - - - Existing Ground Line
- Proposed Template
- Proposed Topsoil Placement
- - - - - Additional Topsoil Removal
- Subgrade Treatment
- - - - - Granular Shoulder
- Pavement
- - - - - Existing Pipe\RCB
- Proposed Pipe\RCB
- Proposed Dike
- All Elements Associated with Proposed Entrances

LINE STYLE LEGEND OF CROSS SECTION SHEETS (SOILS)

- TS——— Topsoil (Class 10)
- TS A——— Topsoil (Type A Disposal)
- TS B——— Topsoil (Type B Disposal)
- TS C——— Topsoil (Type C Disposal)
- CL 10——— Class 10 Materials
- SEL LO——— Select Loams And Clay-Loams
- SEL SA——— Select Sand
- UNS A——— Unsuitable Type A Disposal
- UNS B——— Unsuitable Type B Disposal
- UNS C——— Unsuitable Type C Disposal
- SHALE——— Shale
- WASTE——— Waste
- B&W LS——— Broken and Weathered Rock
- ROCK——— Solid Rock
- BLDRS——— Boulders

Note: All layer lines and descriptions identify layers above the line.

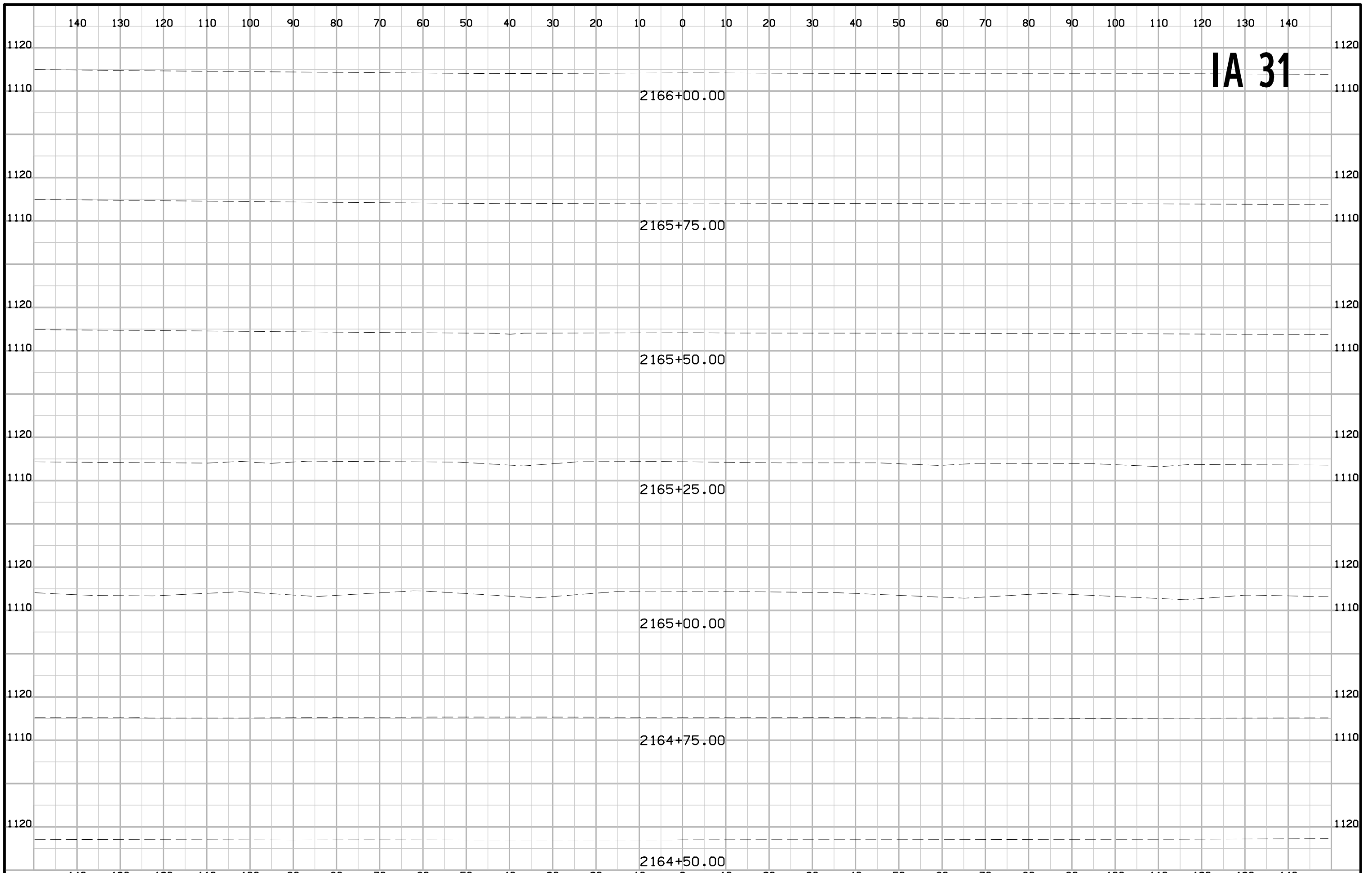
Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

SYMBOL LEGEND OF CROSS SECTION SHEETS

- Existing ROW
|
Existing Right-of-Way Limit
- Proposed ROW
|
Proposed Right-of-Way Limit
- Temporary ROW
|
Temporary Right-of-Way Limit

**CROSS SECTION
LEGEND AND SYMBOL
INFORMATION SHEET**

(COVERS SHEET SERIES W, X, Y, & Z)



IA 31

2166+00.00

2165+75.00

2165+50.00

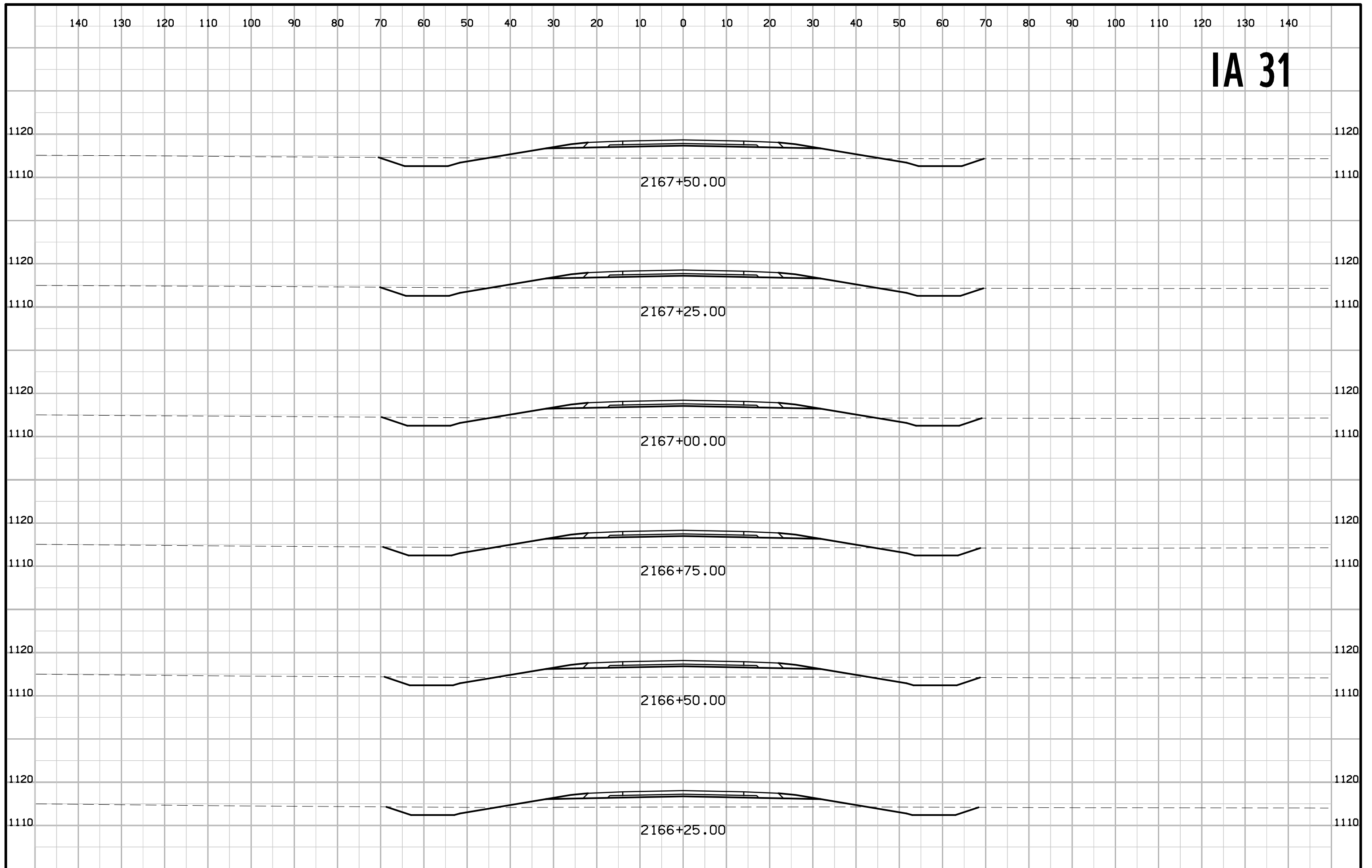
2165+25.00

2165+00.00

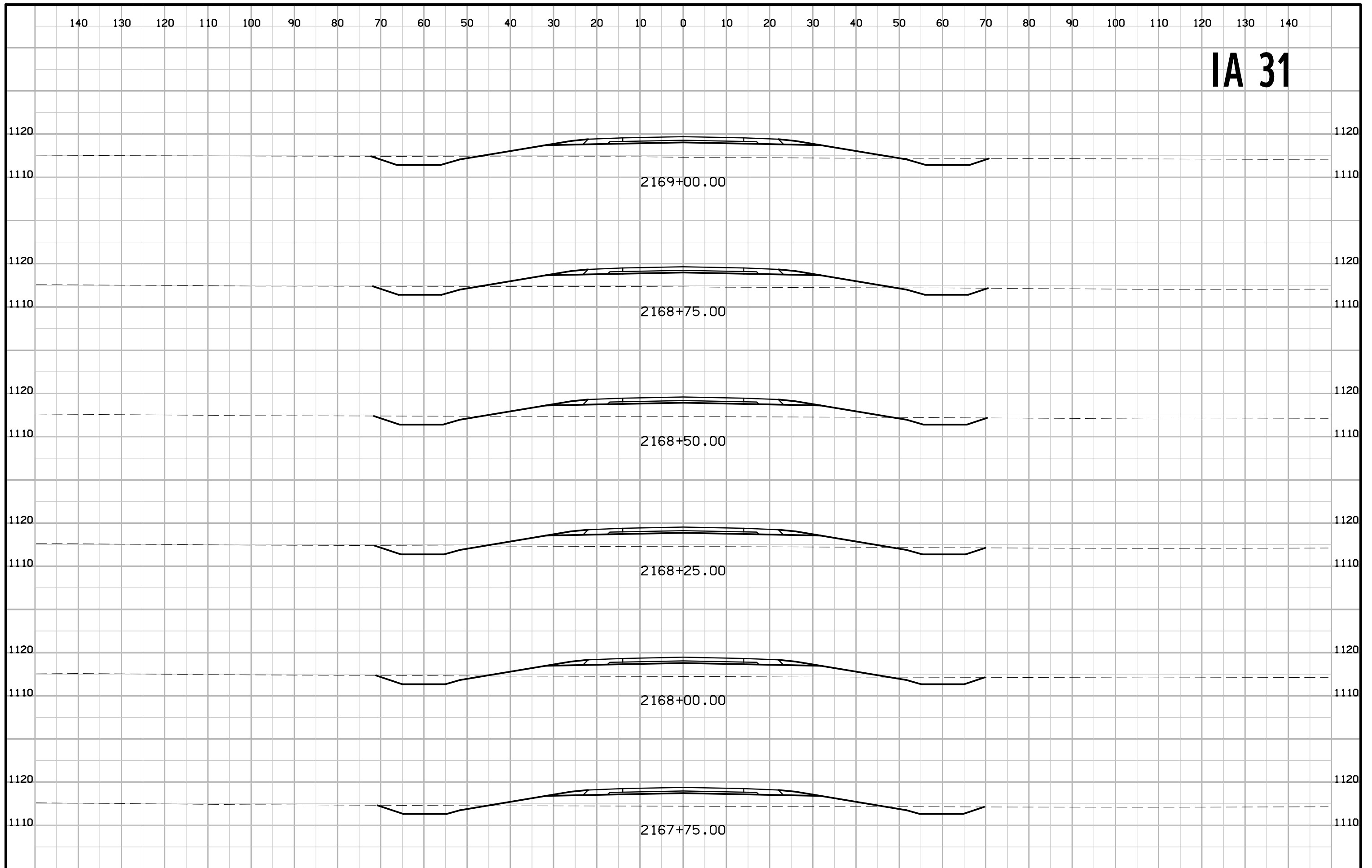
2164+75.00

2164+50.00

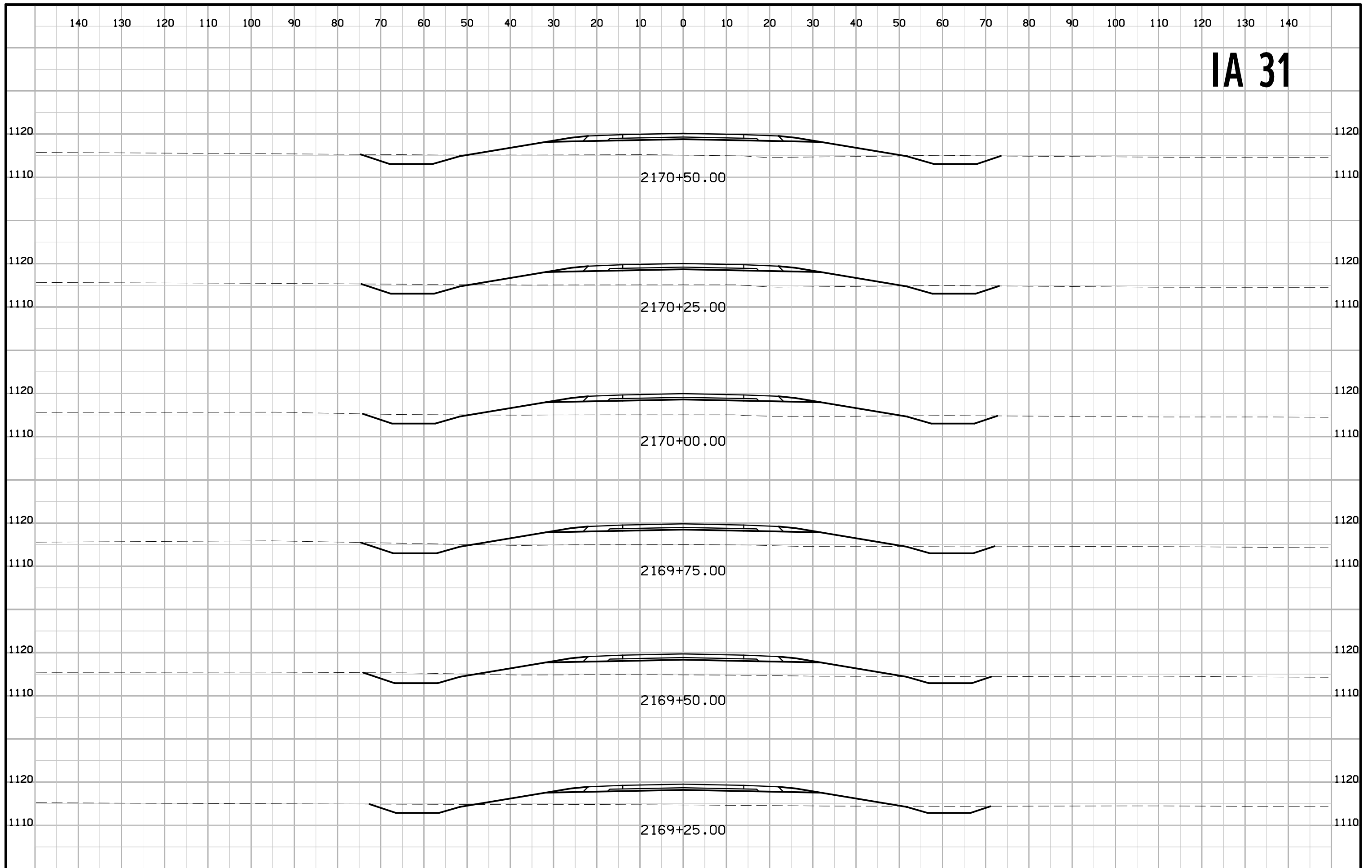
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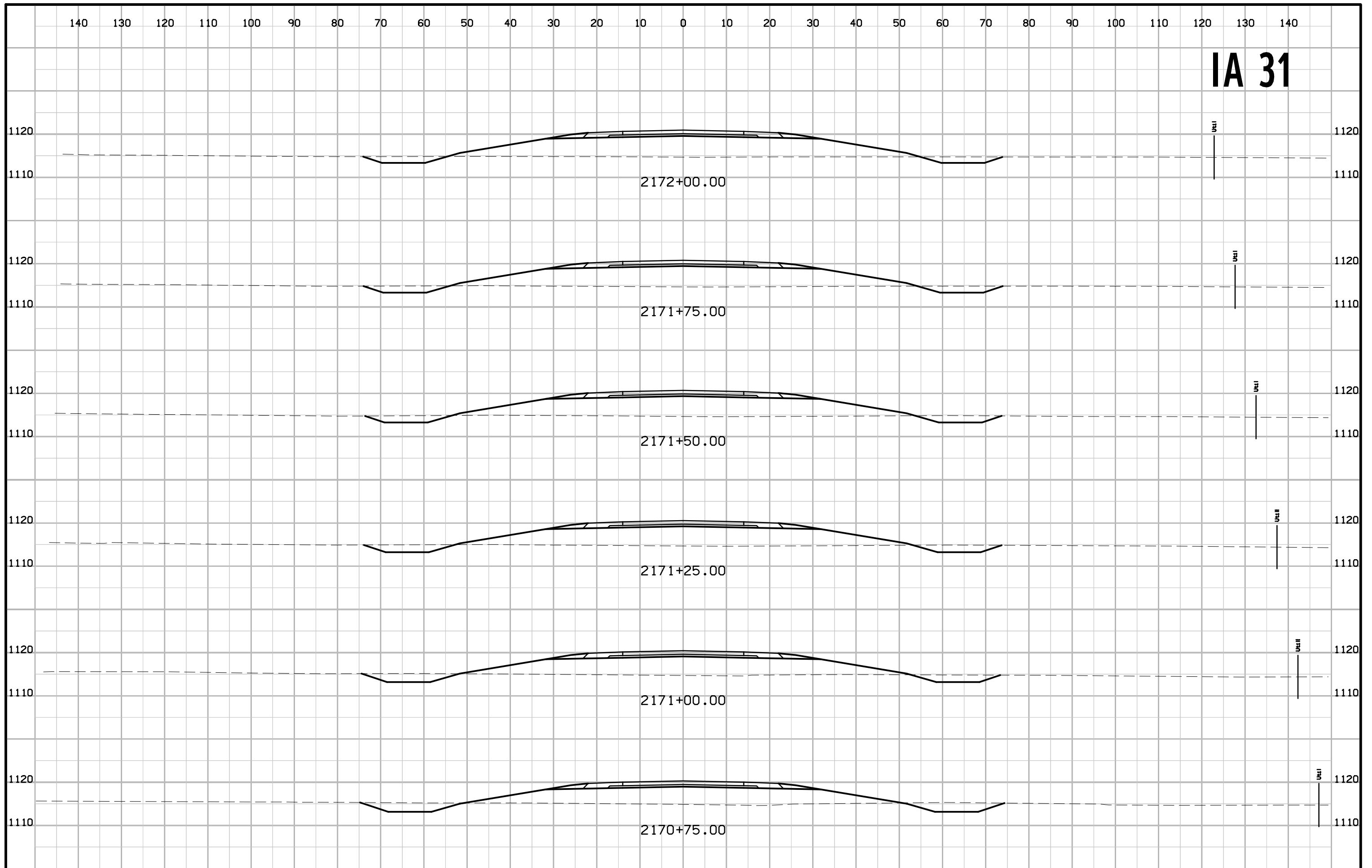
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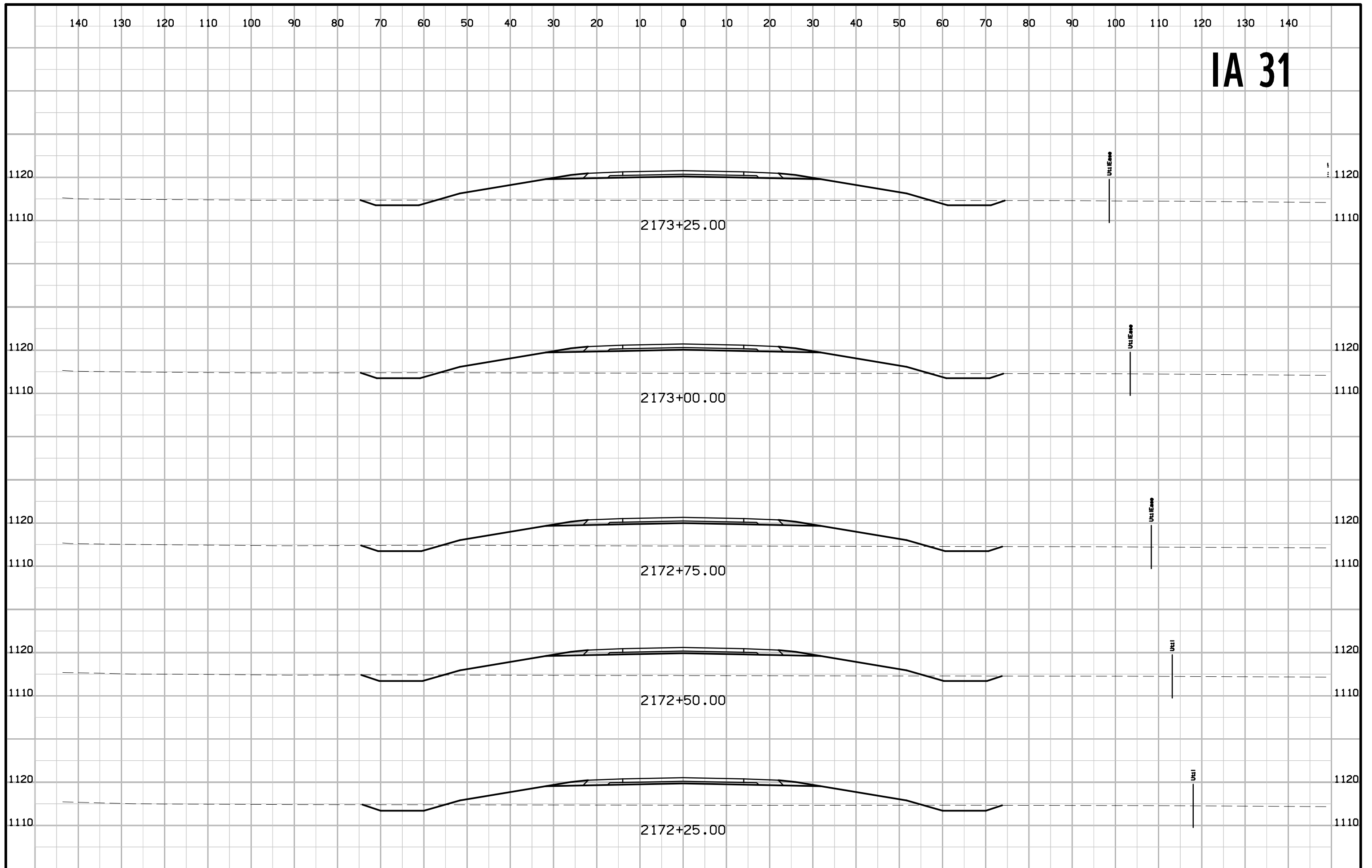
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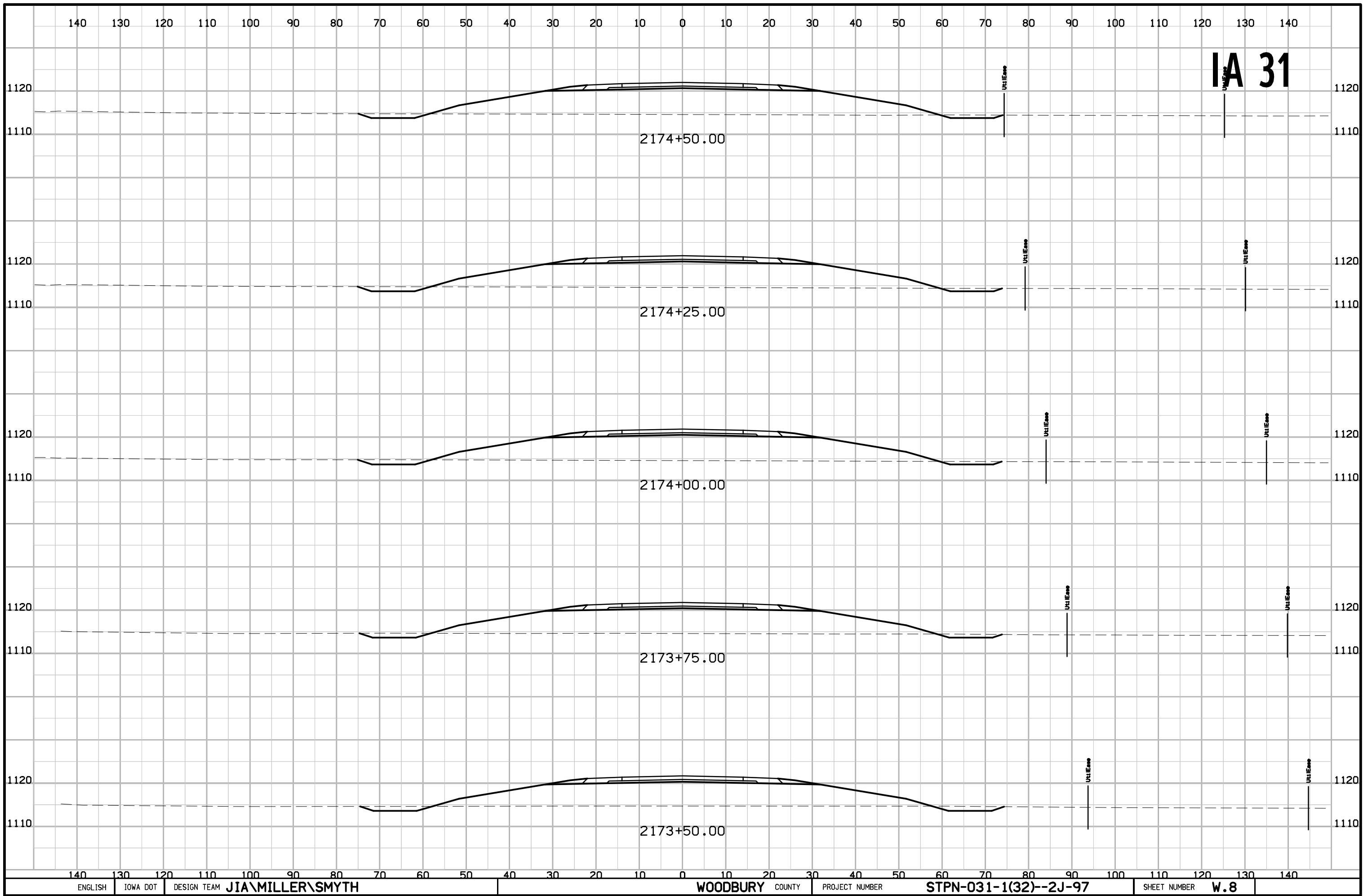


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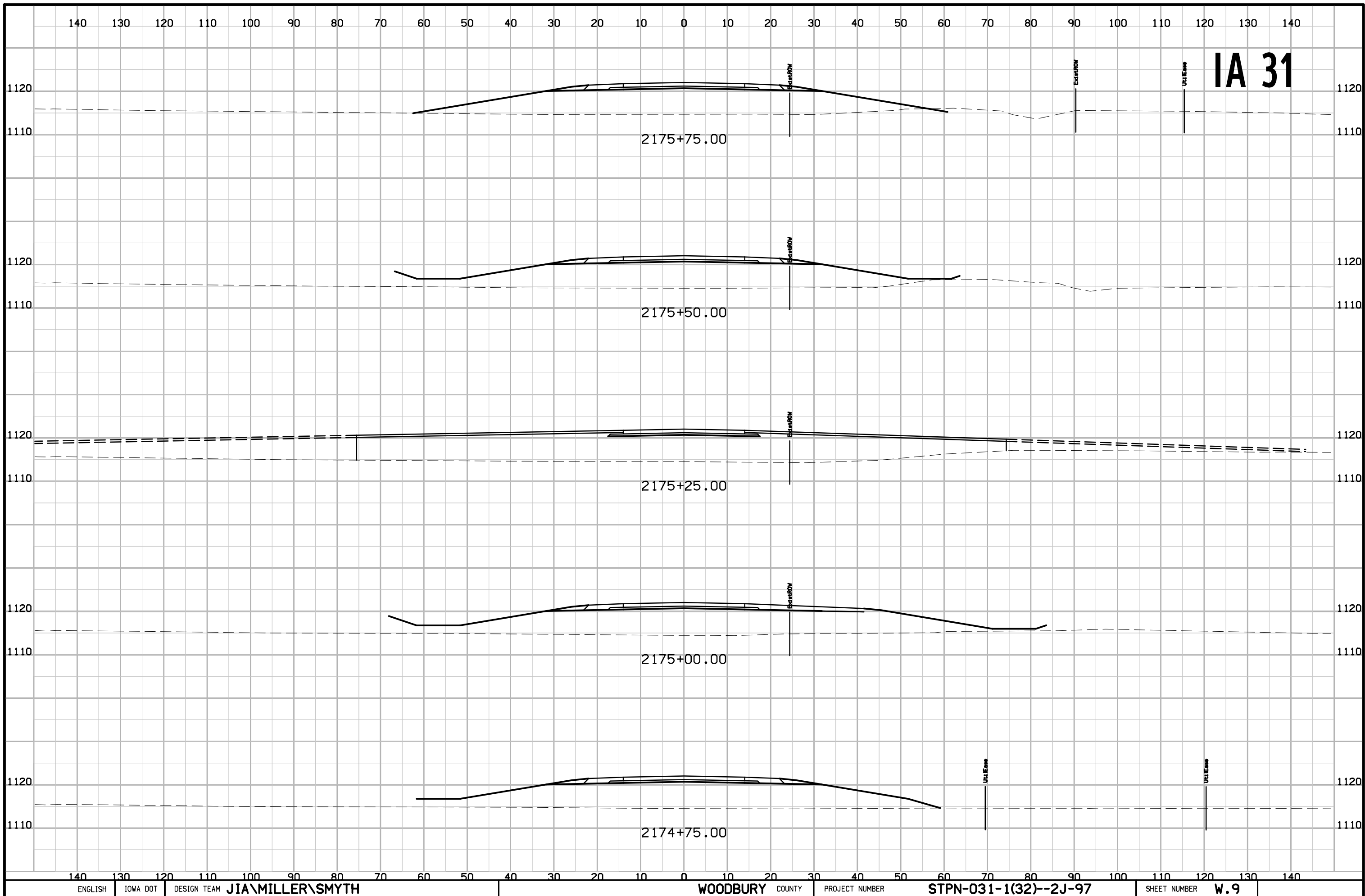


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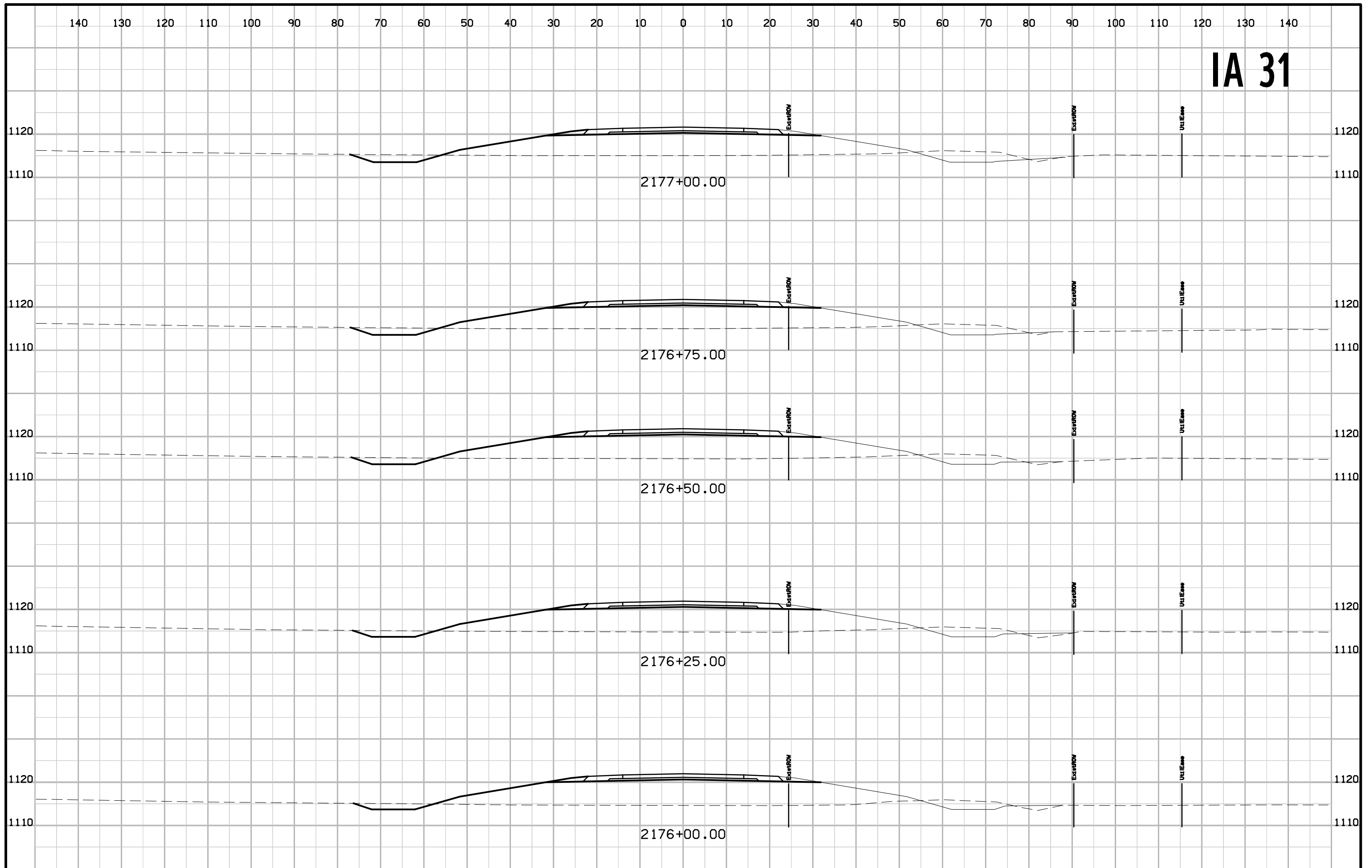


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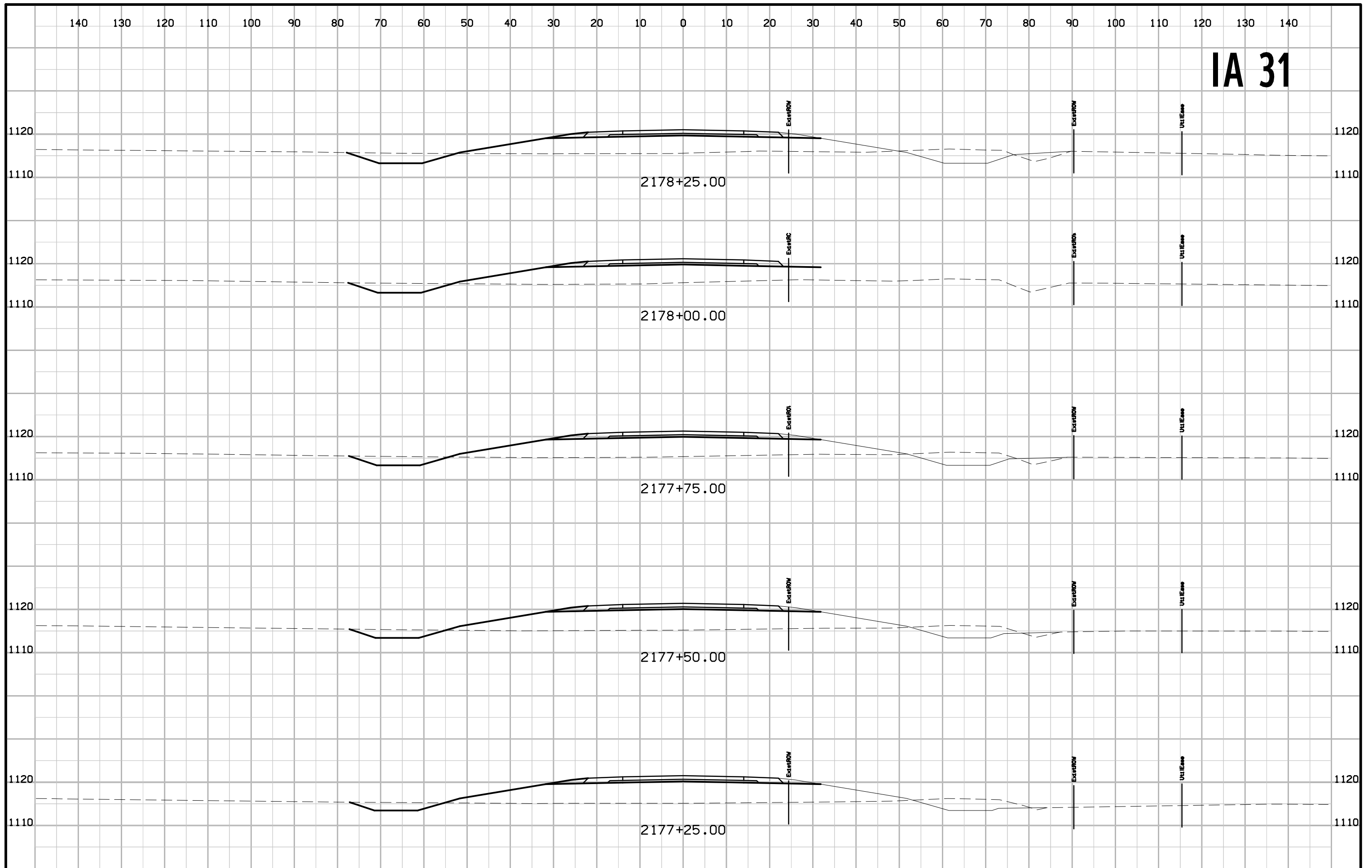


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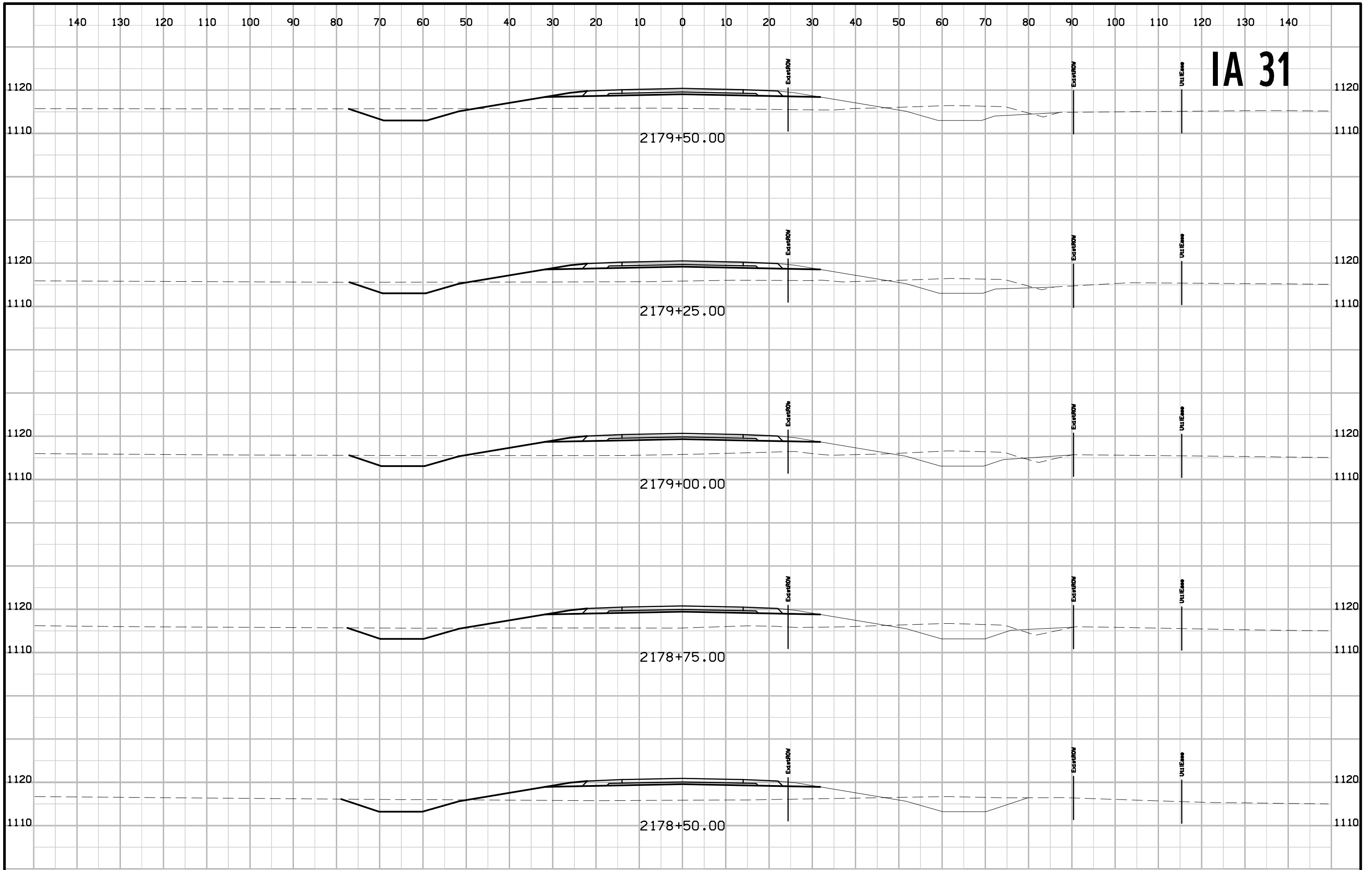
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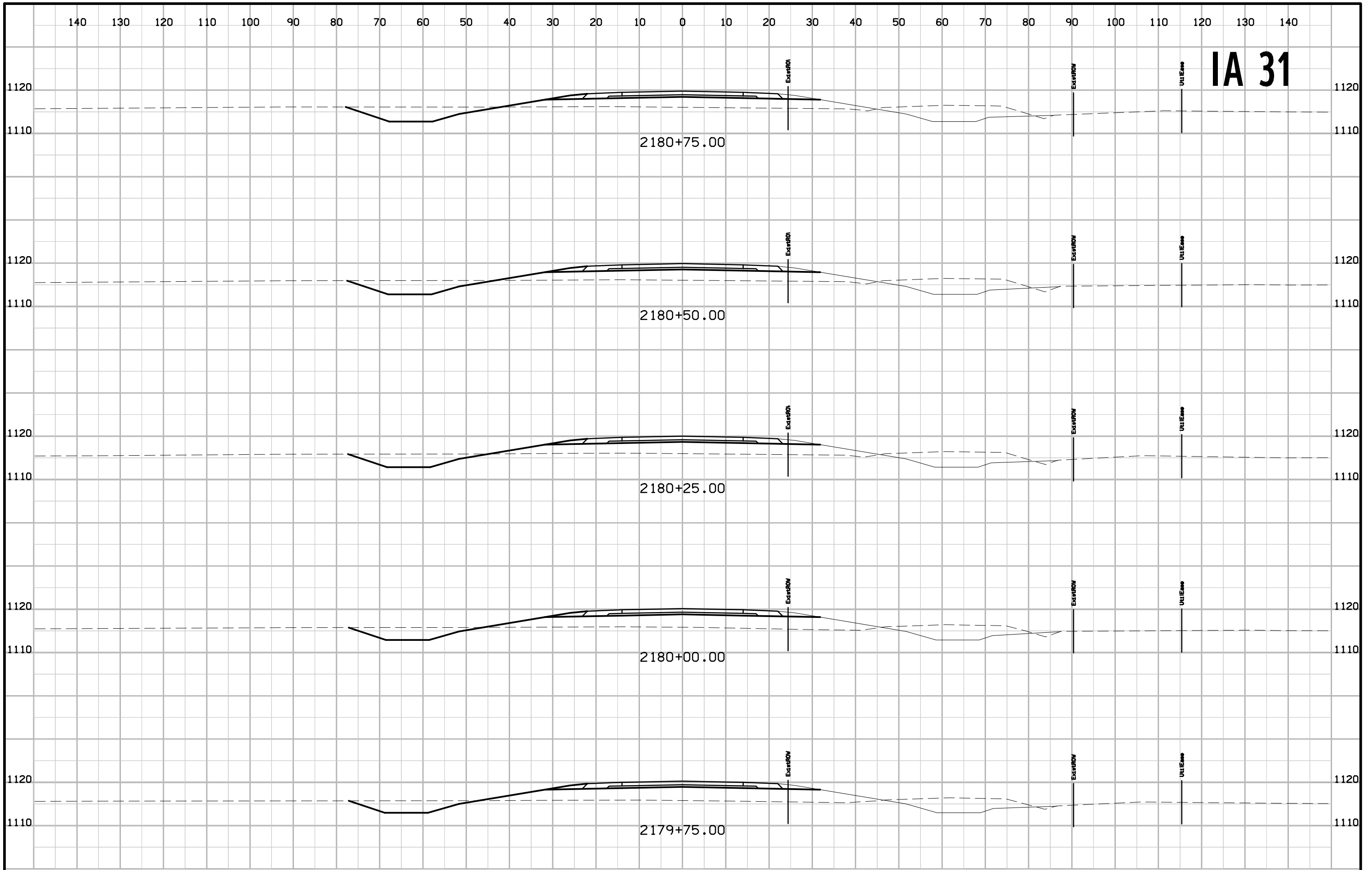
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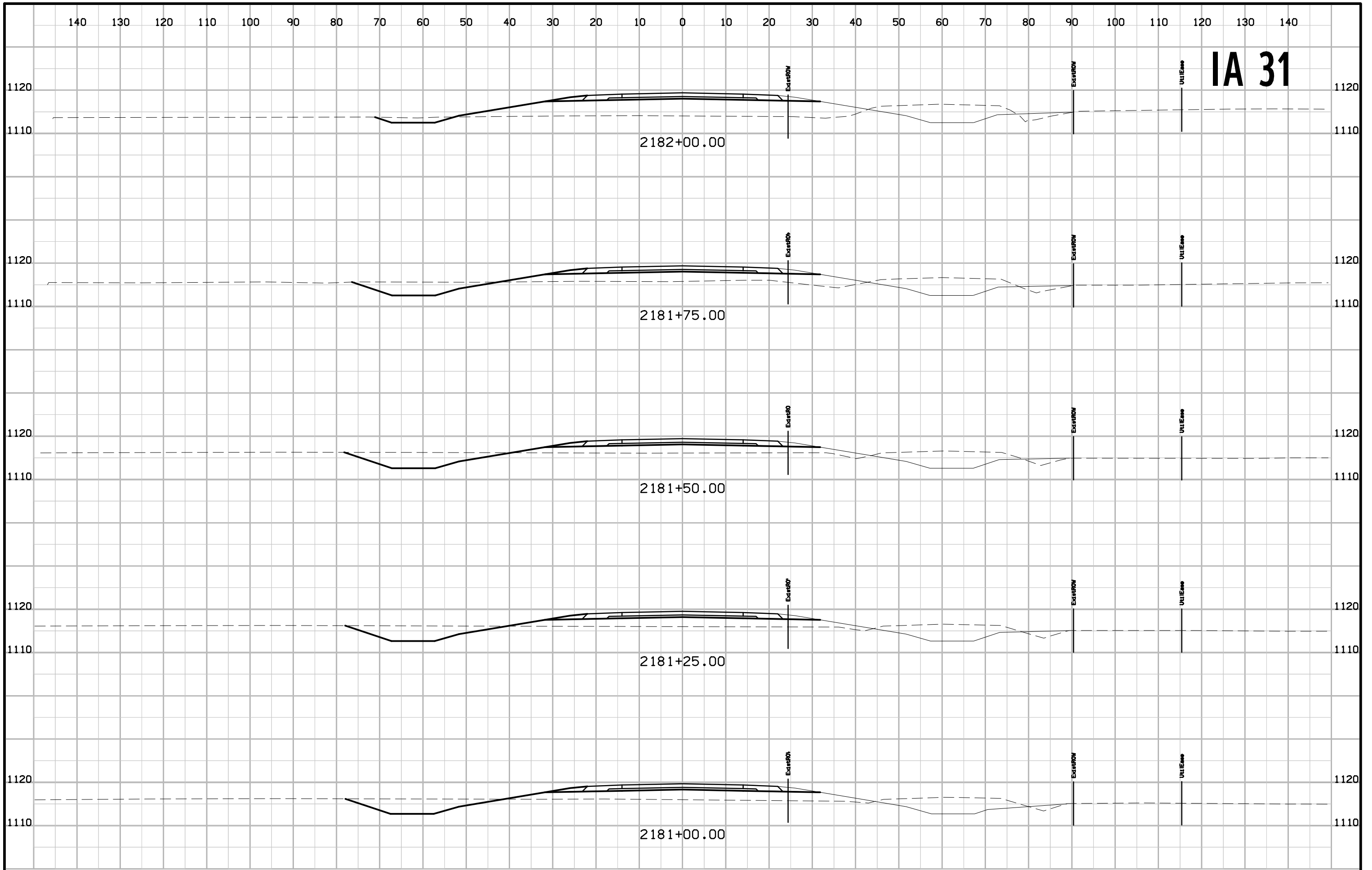
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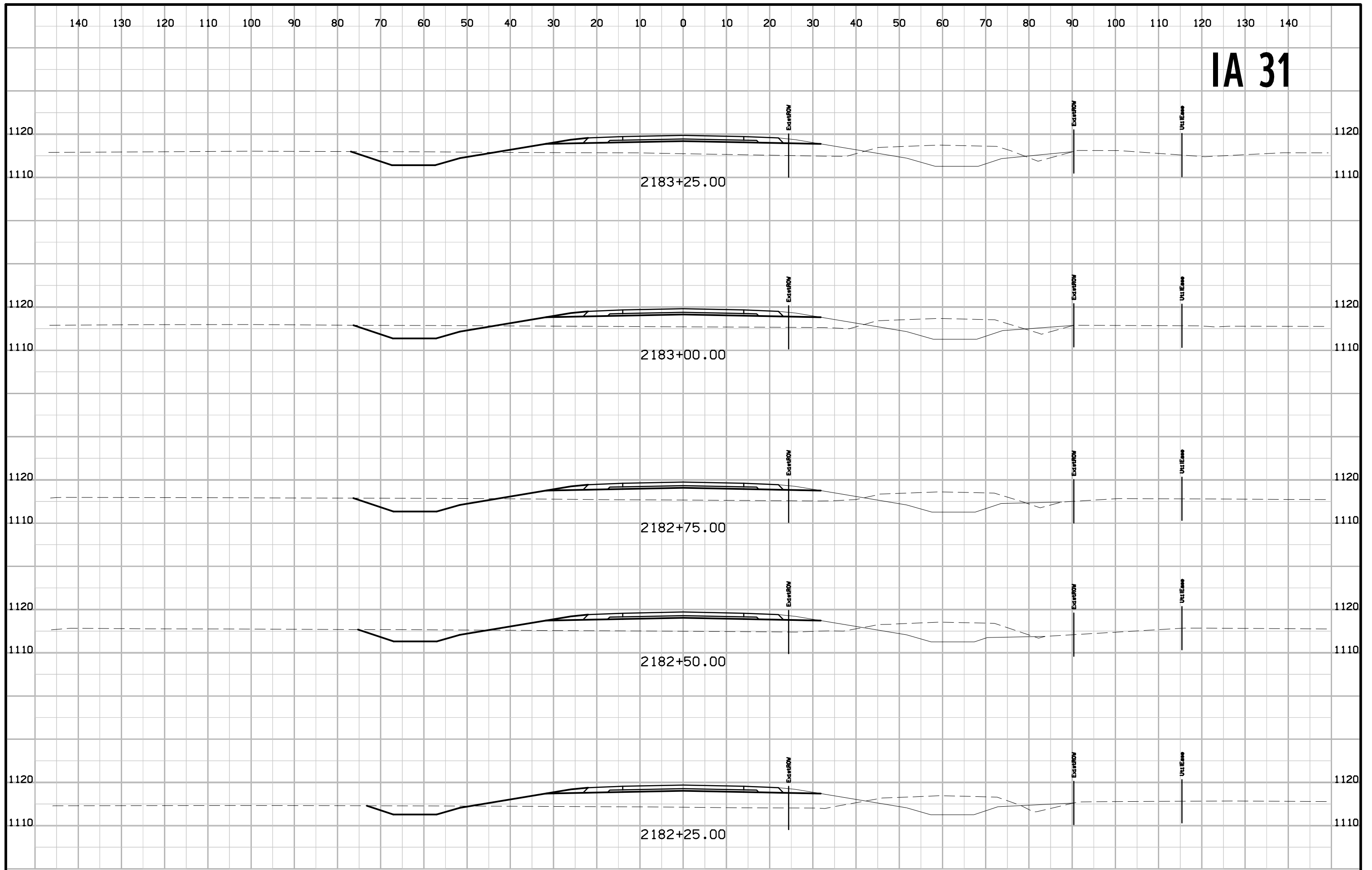
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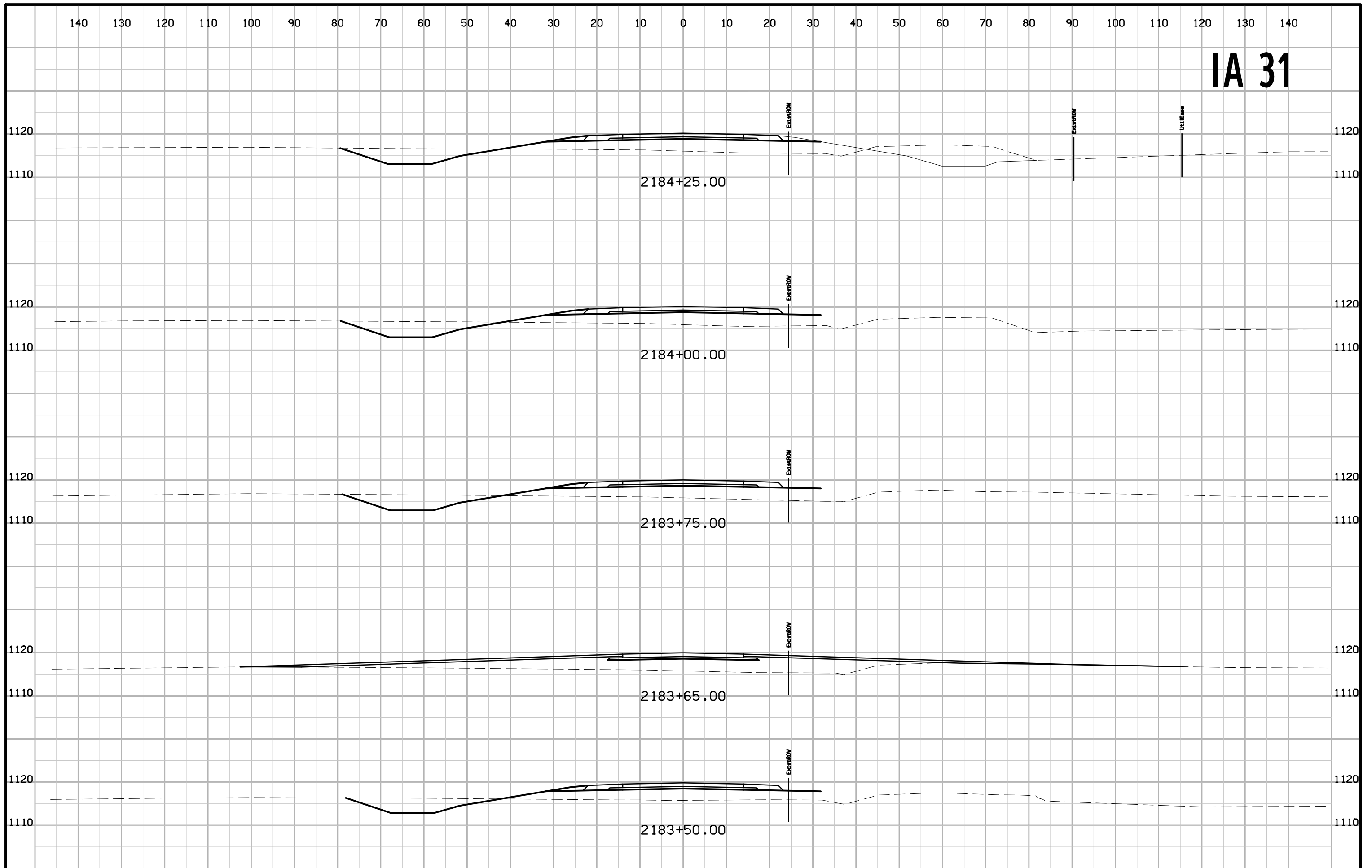
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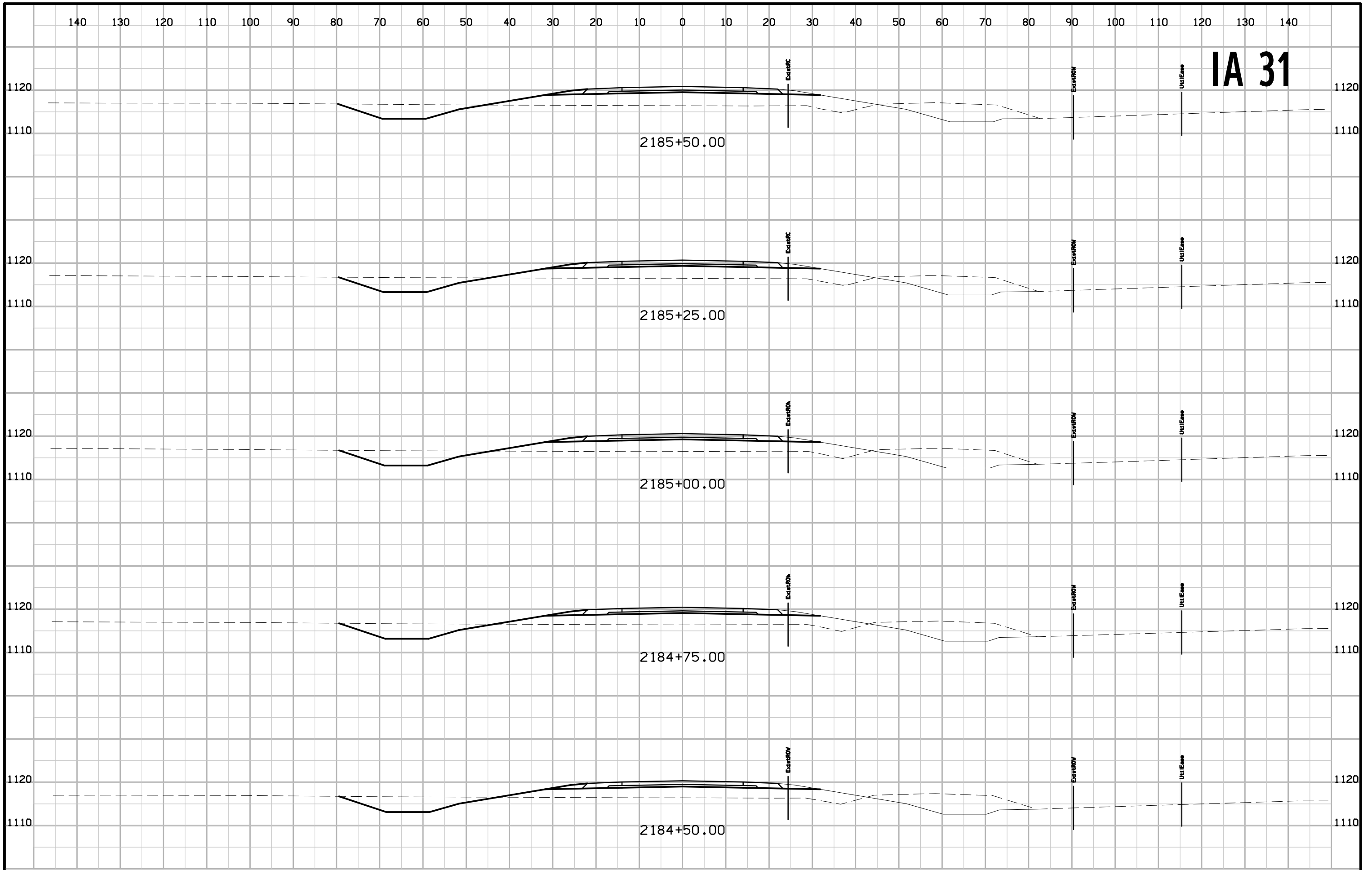
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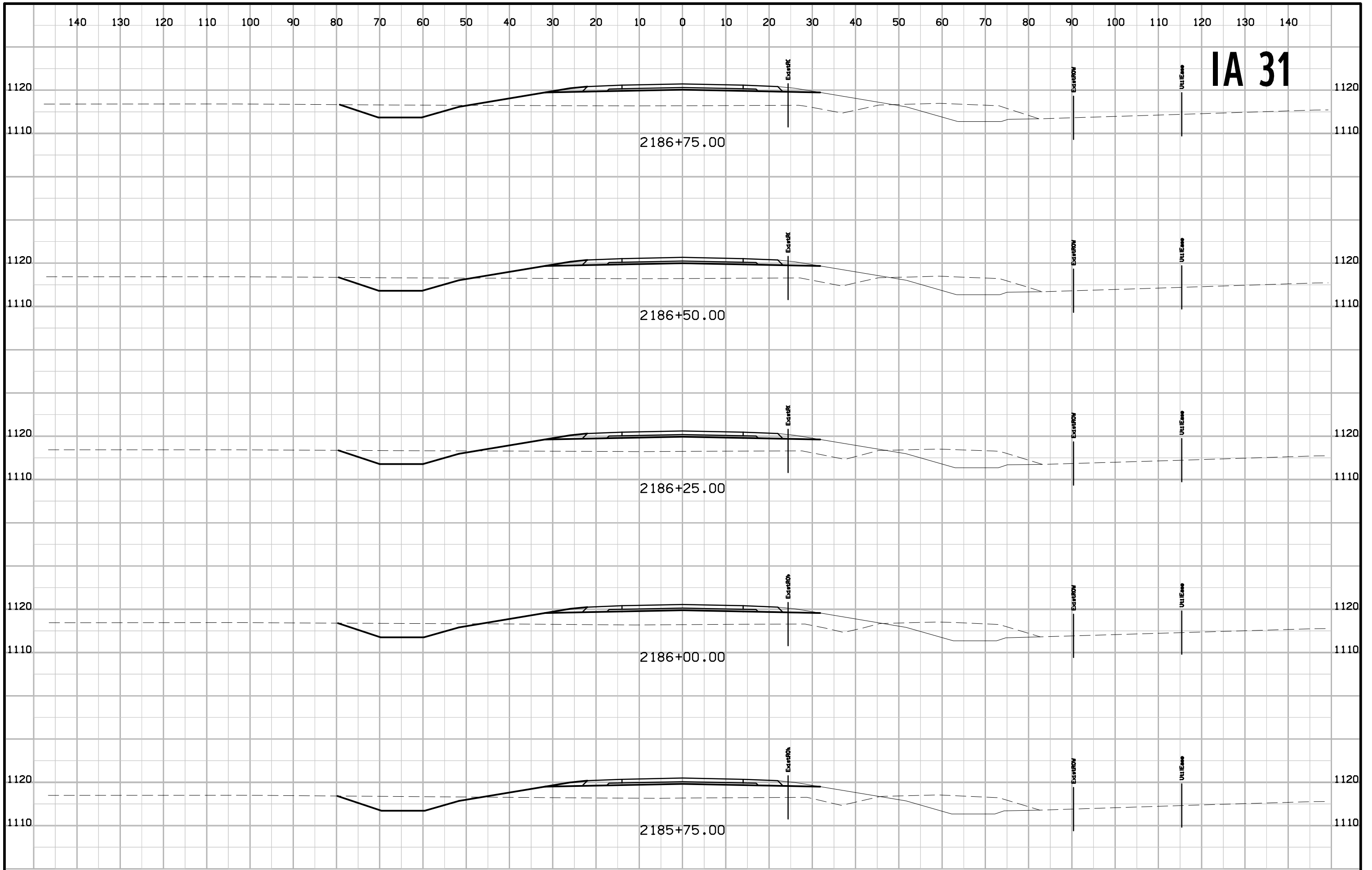
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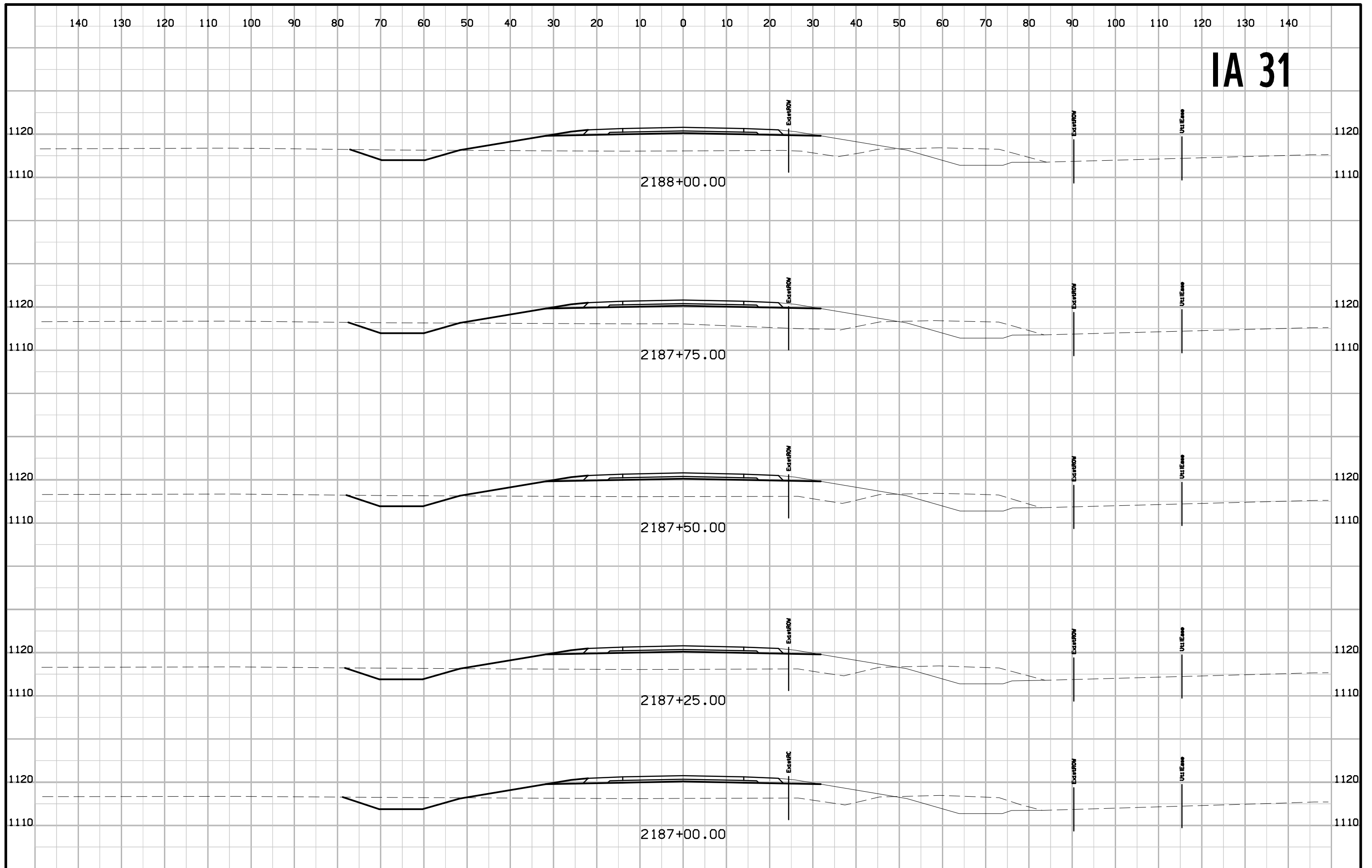
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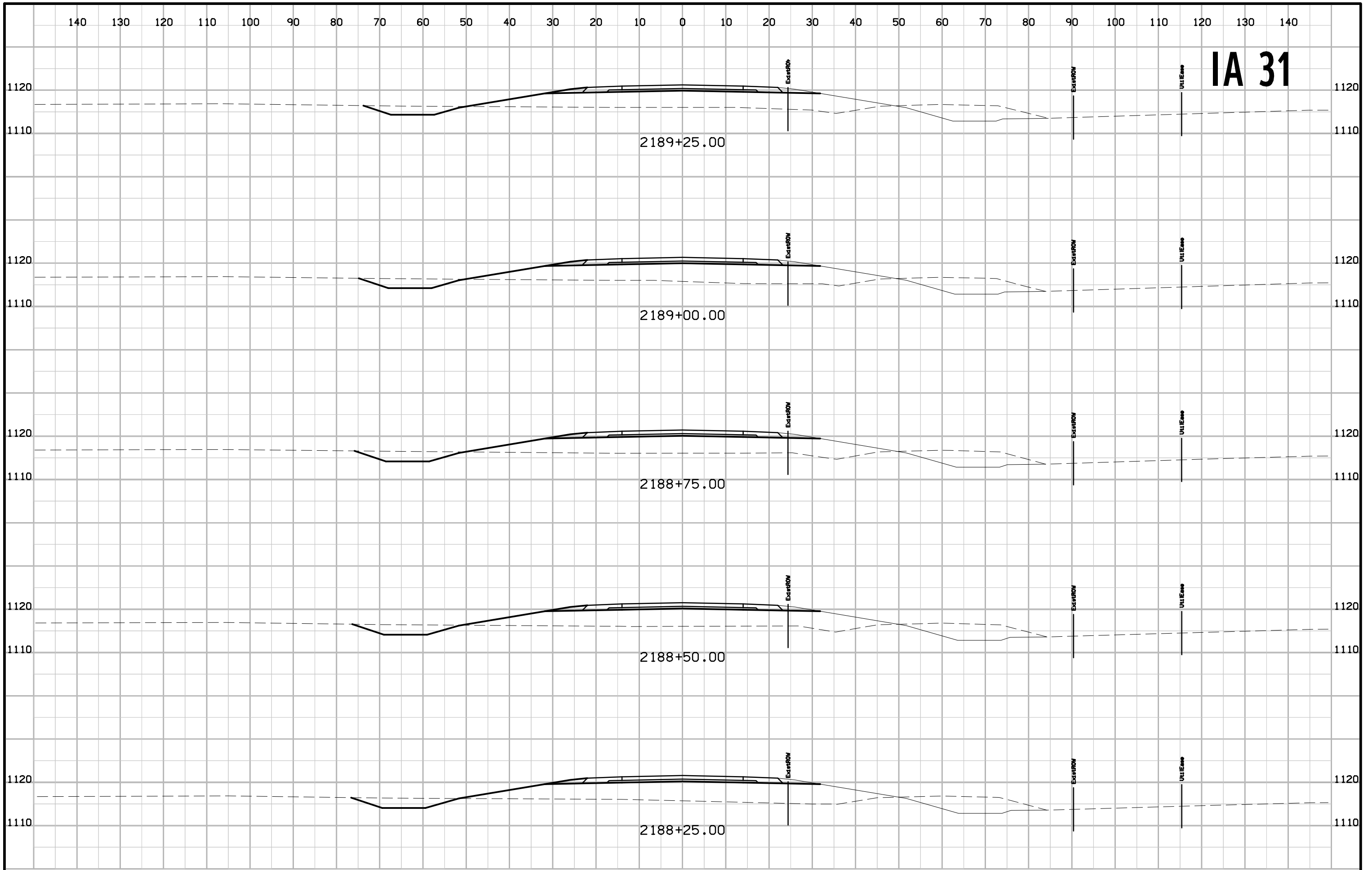
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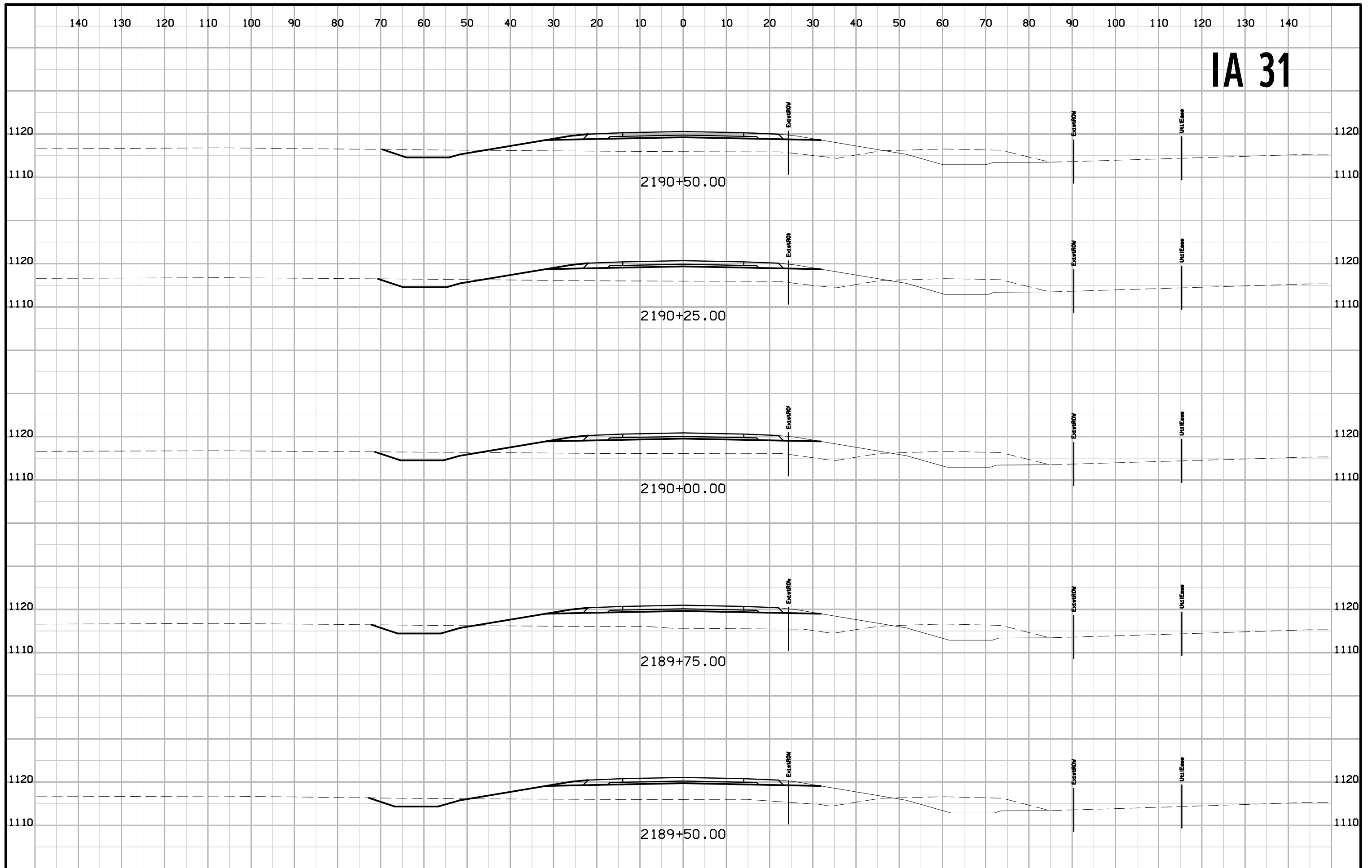
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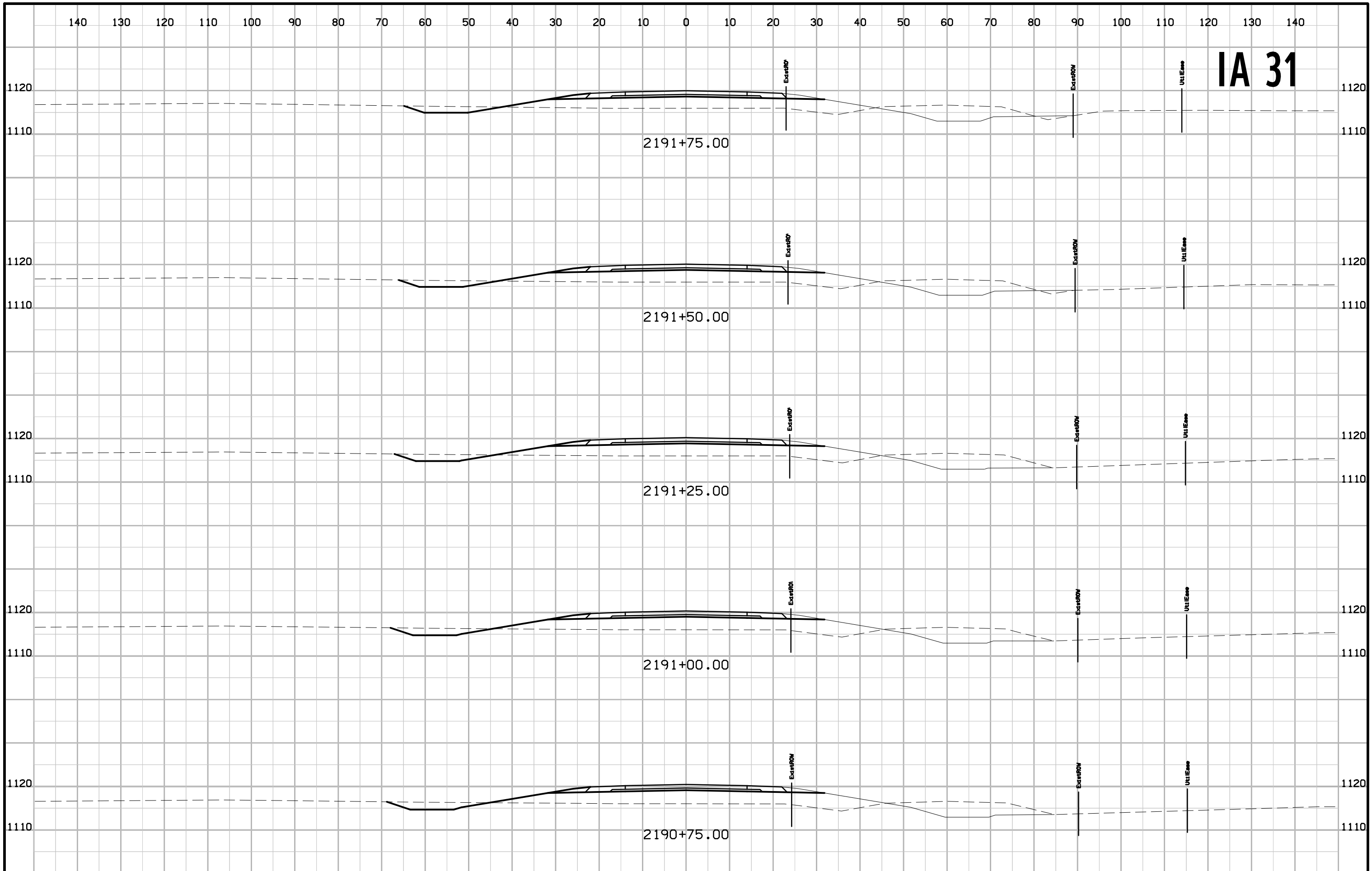
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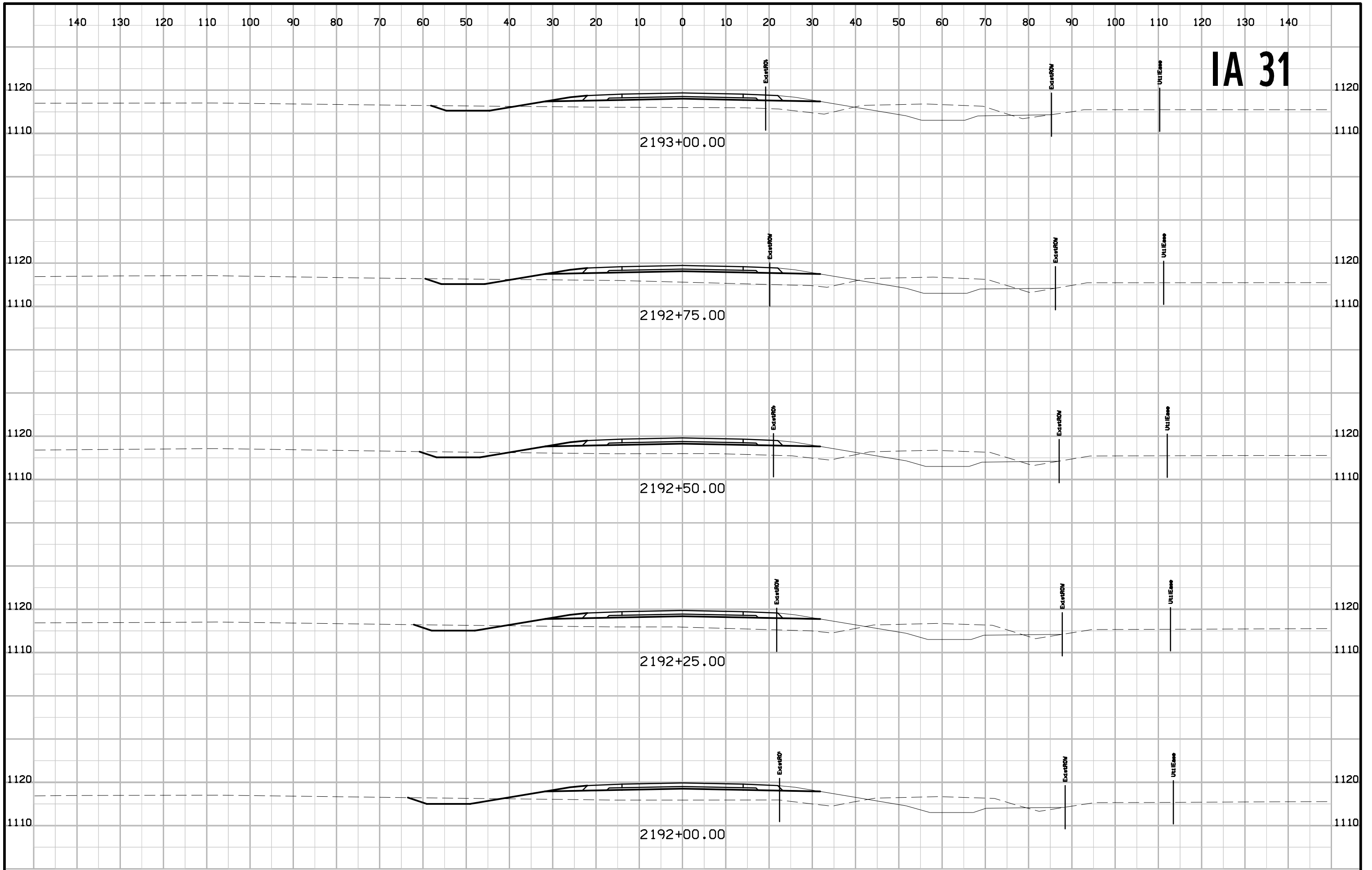
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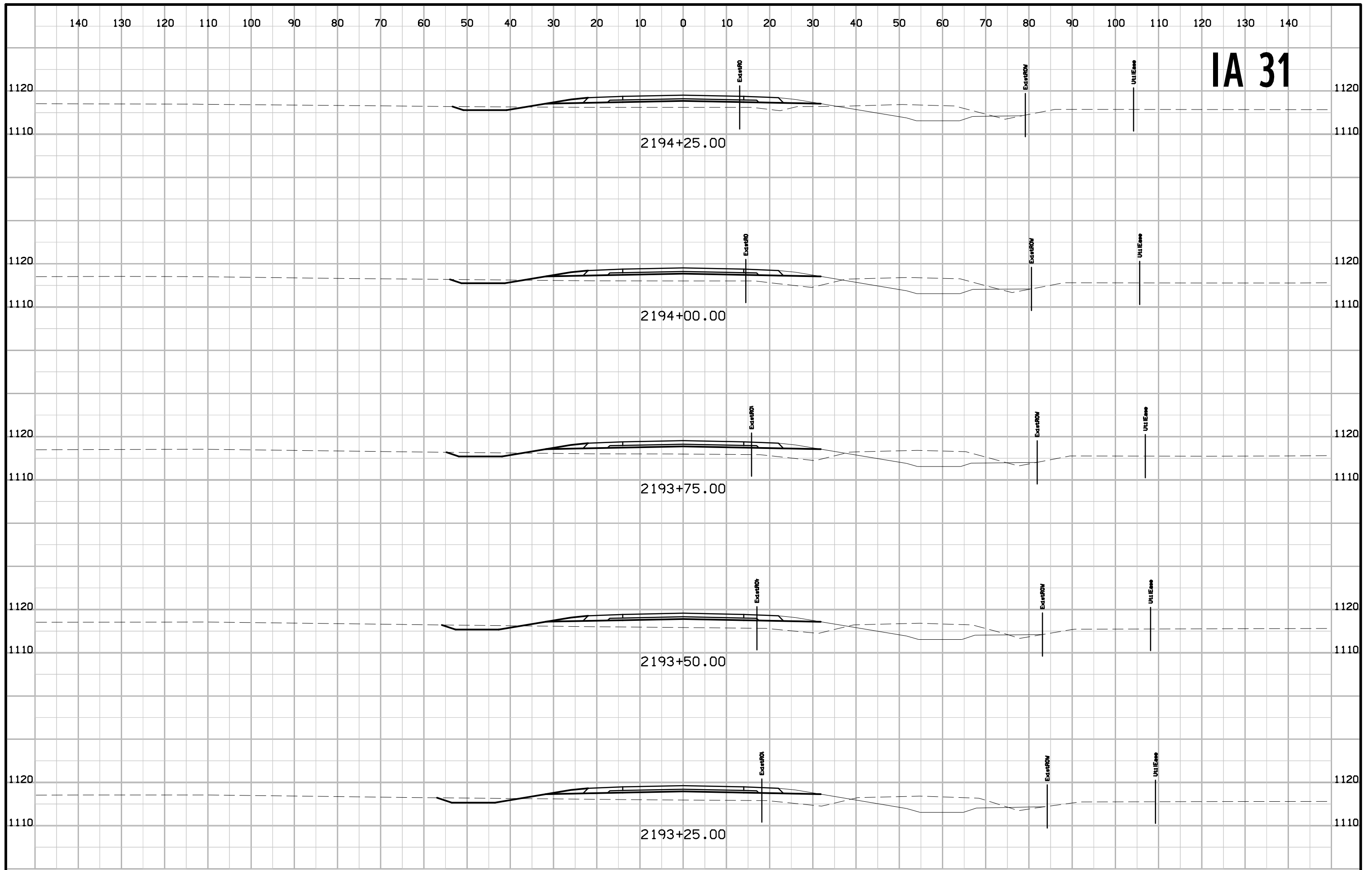
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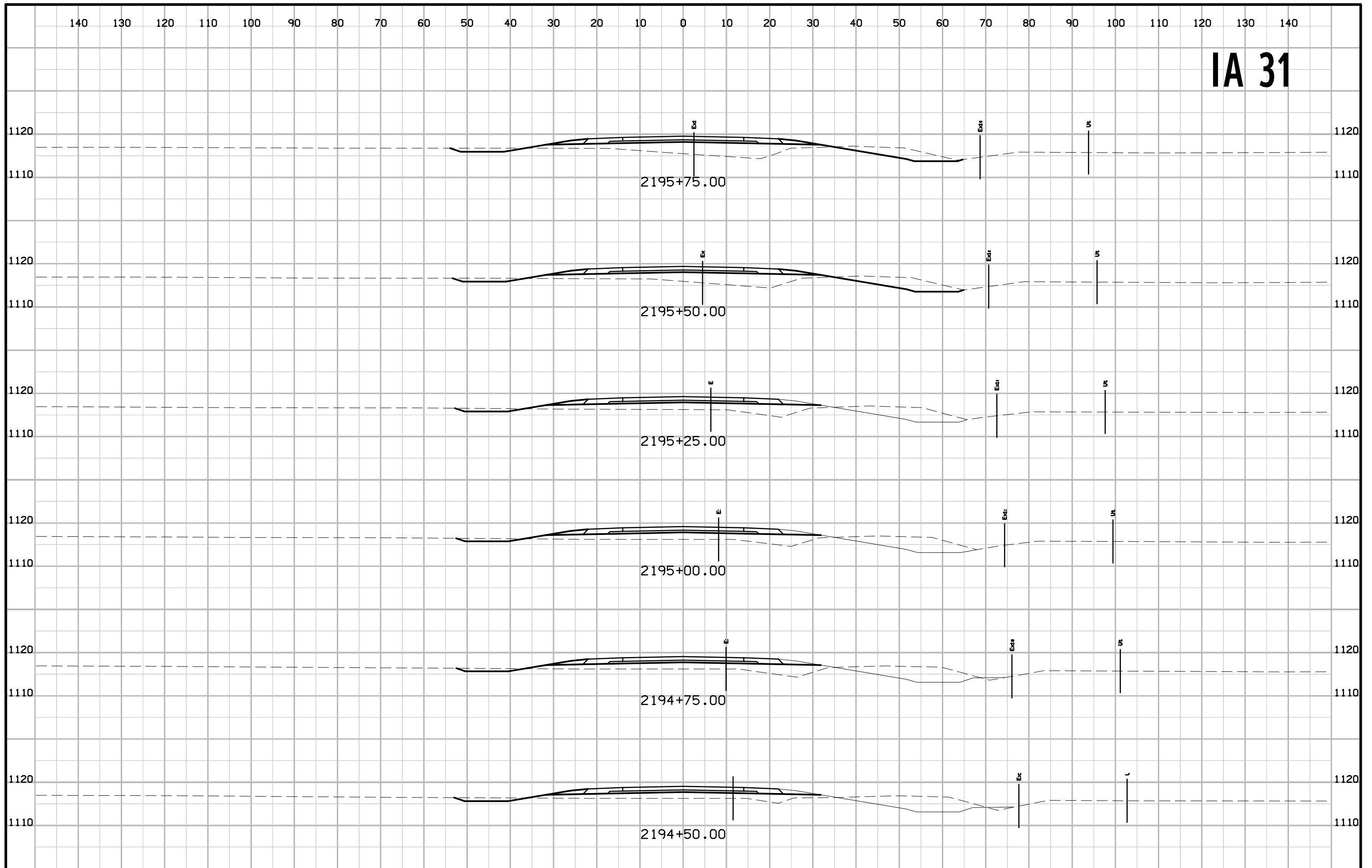
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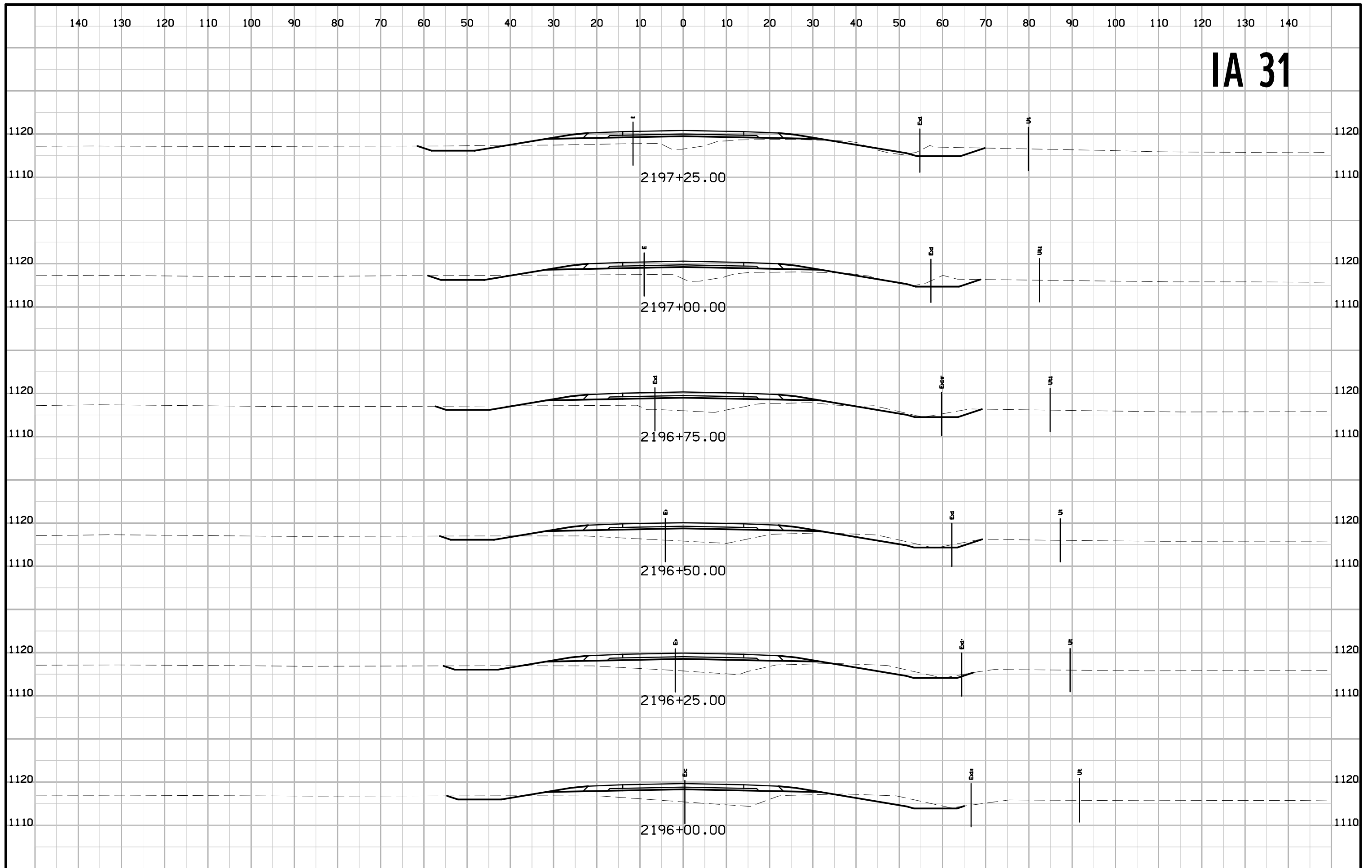
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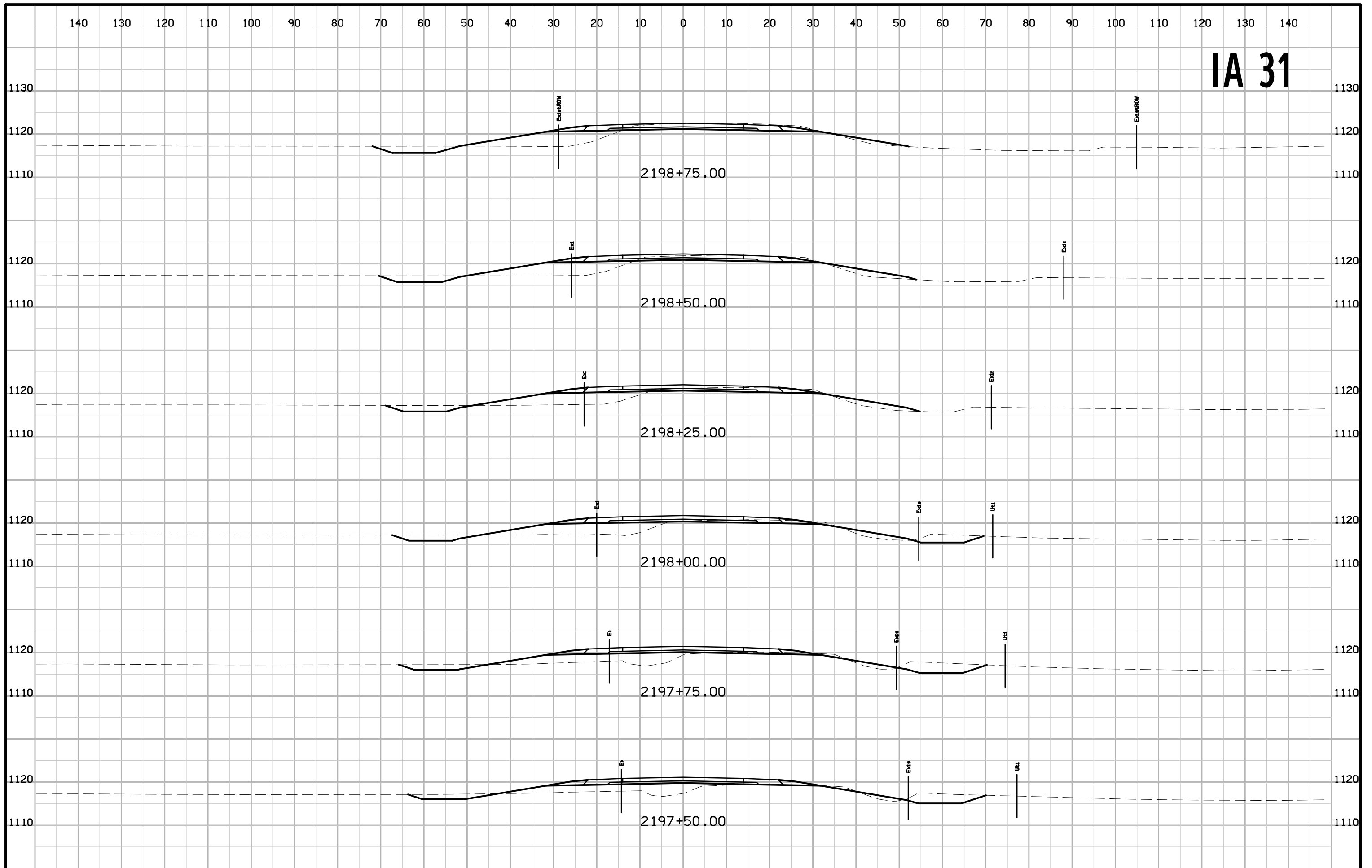
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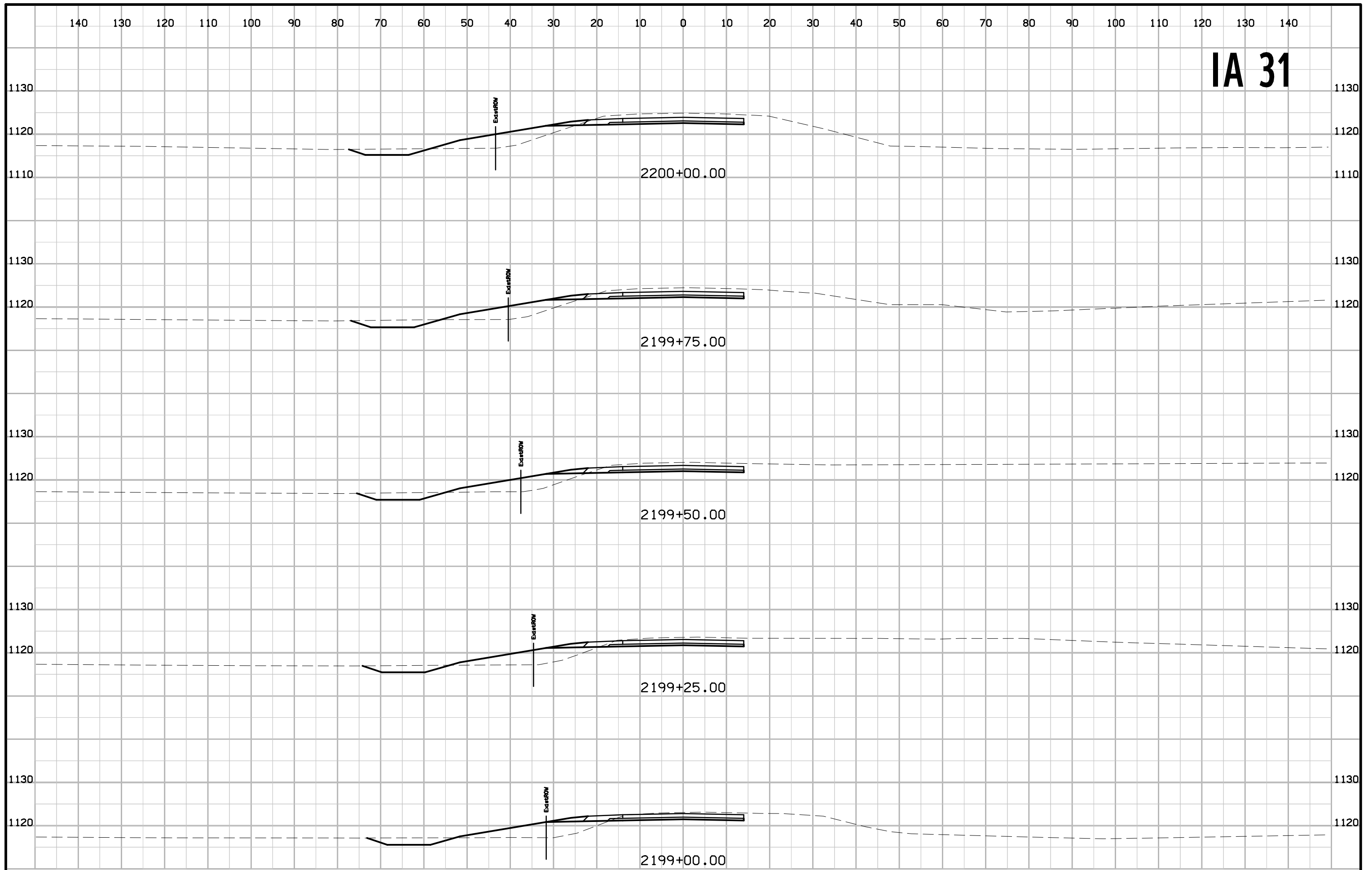
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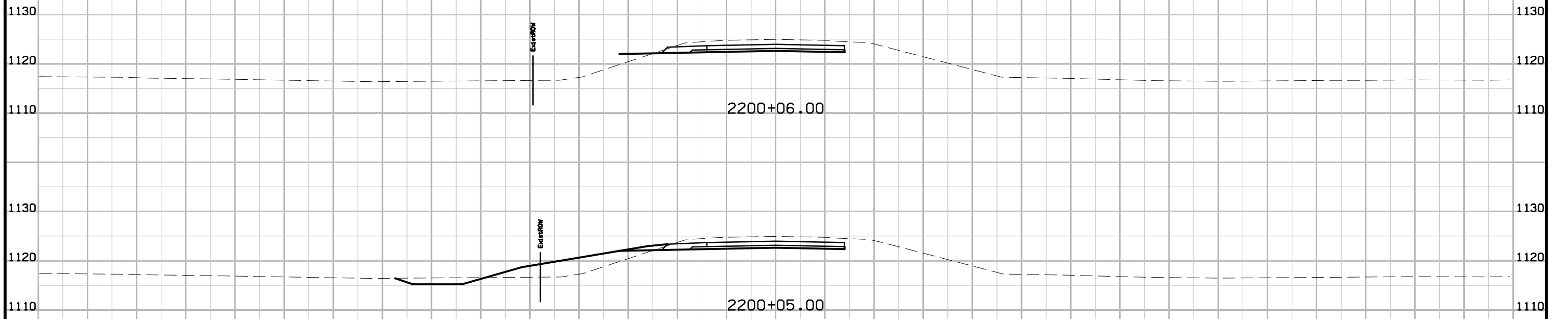


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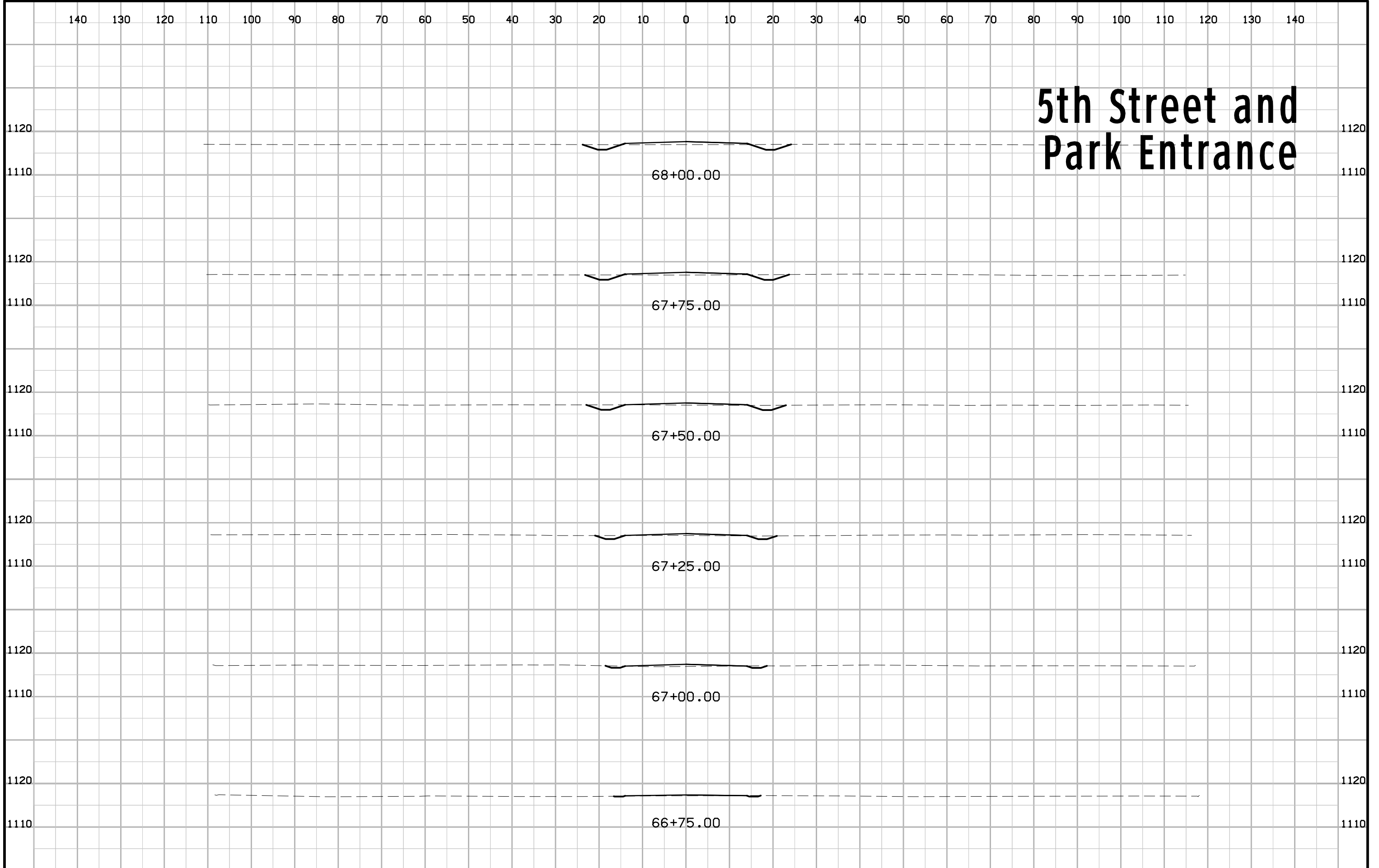
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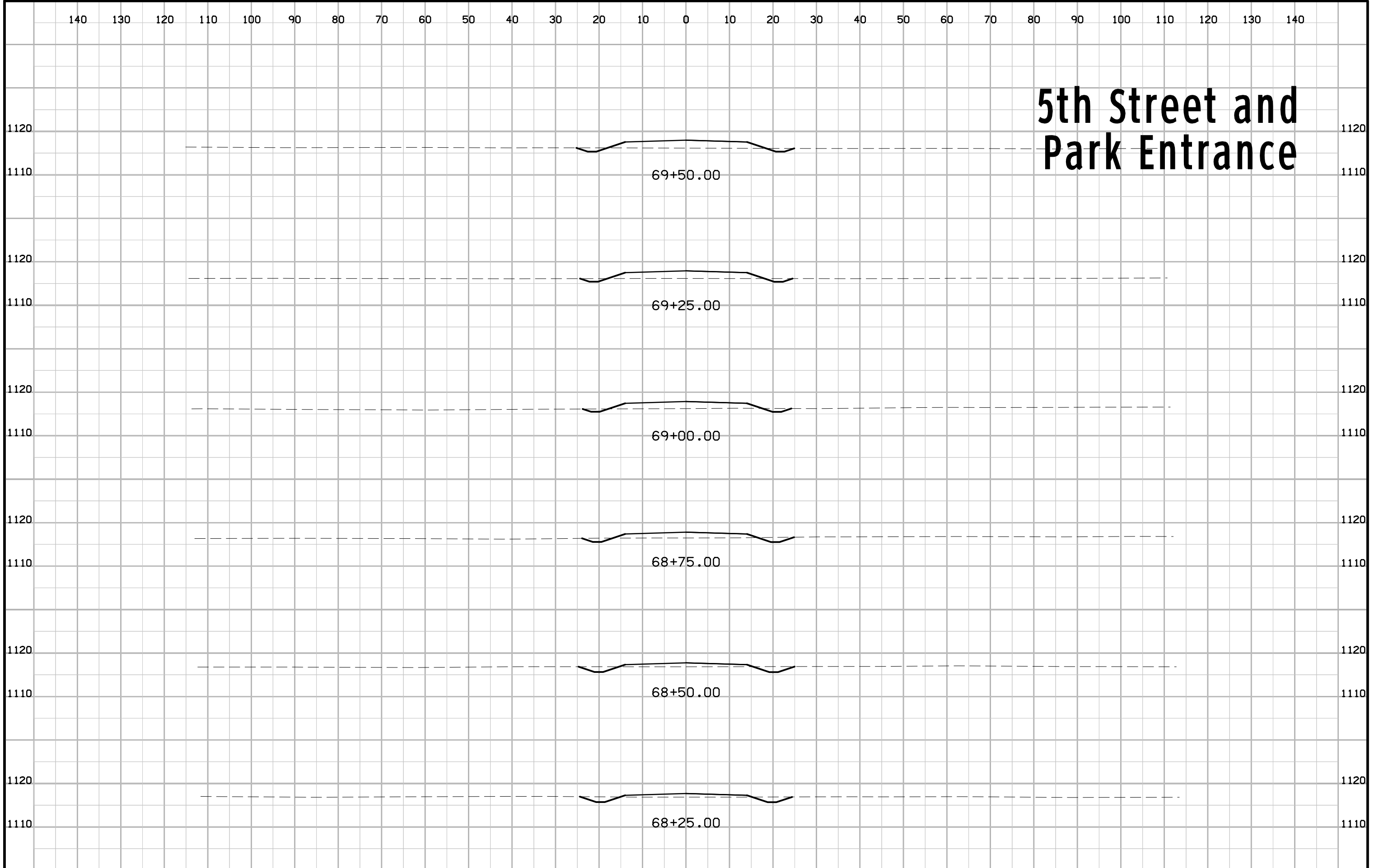


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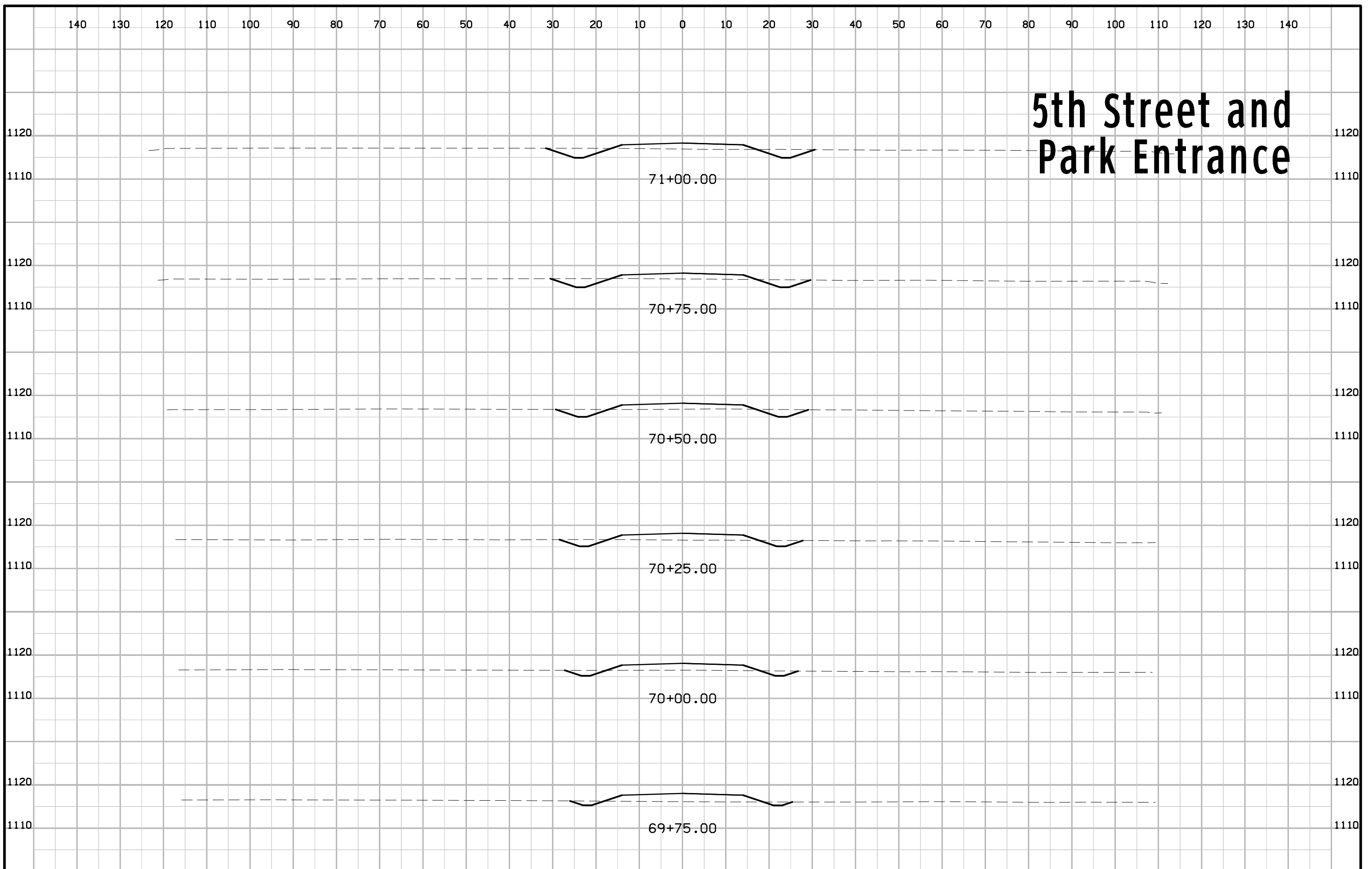
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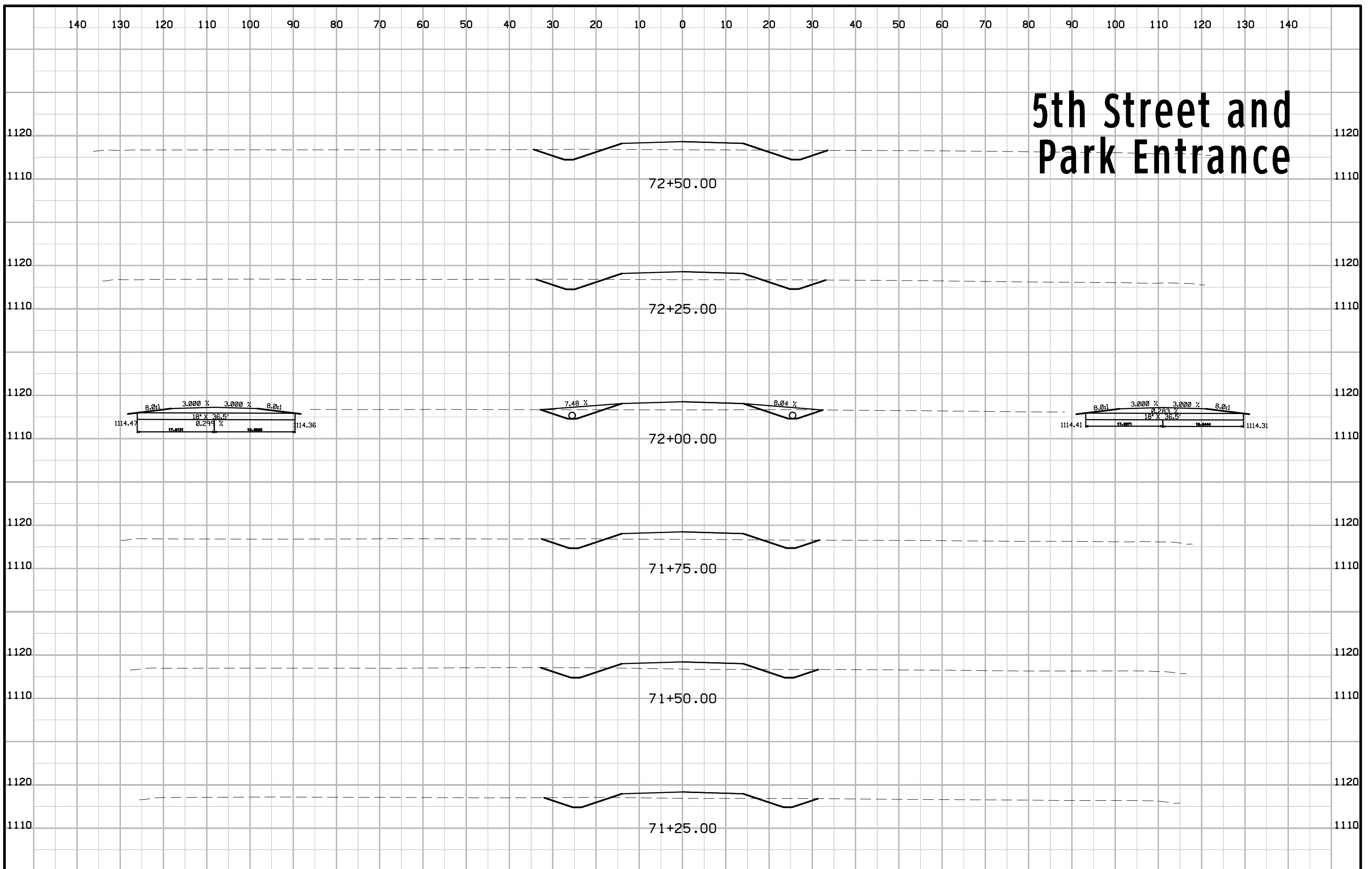
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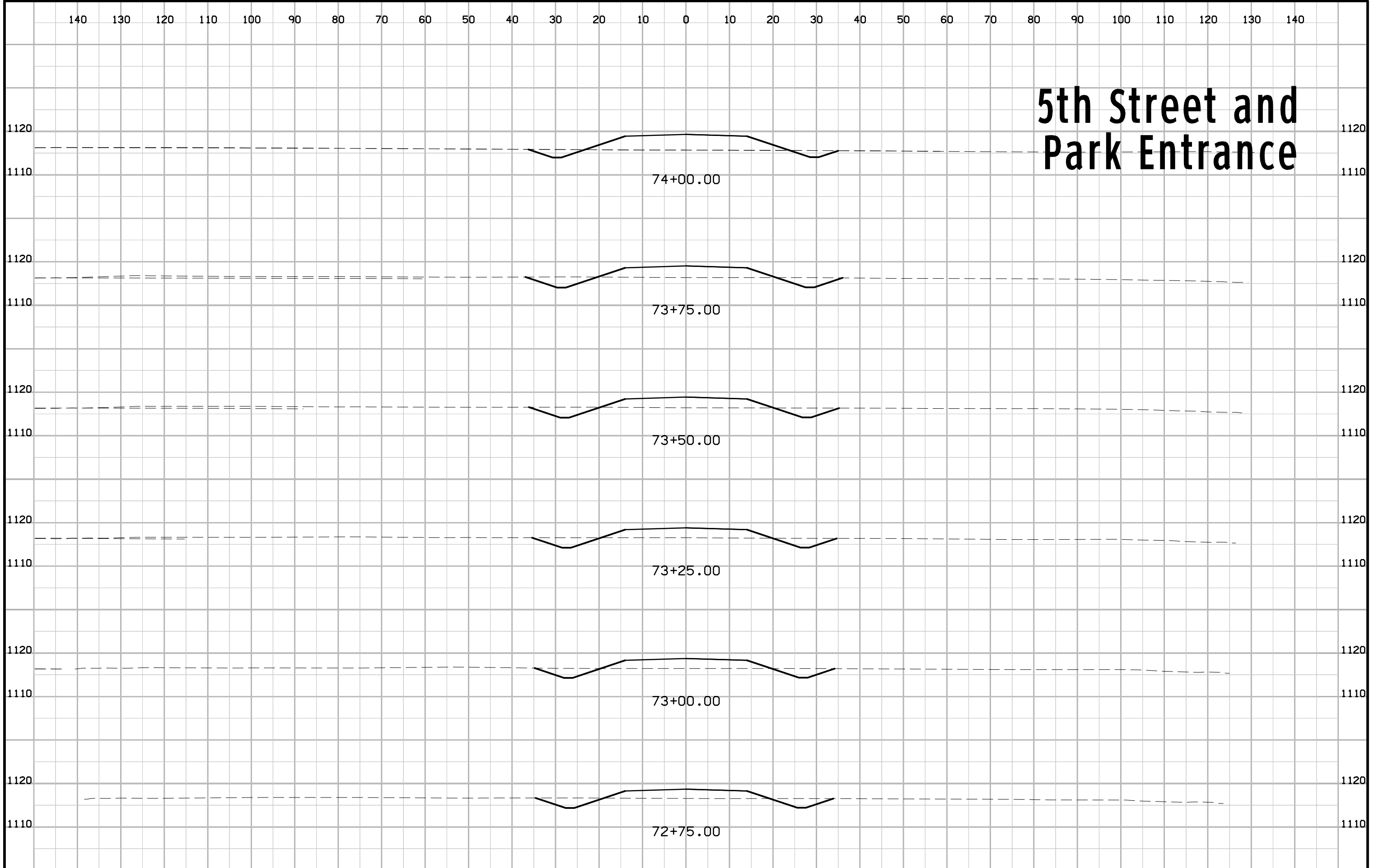
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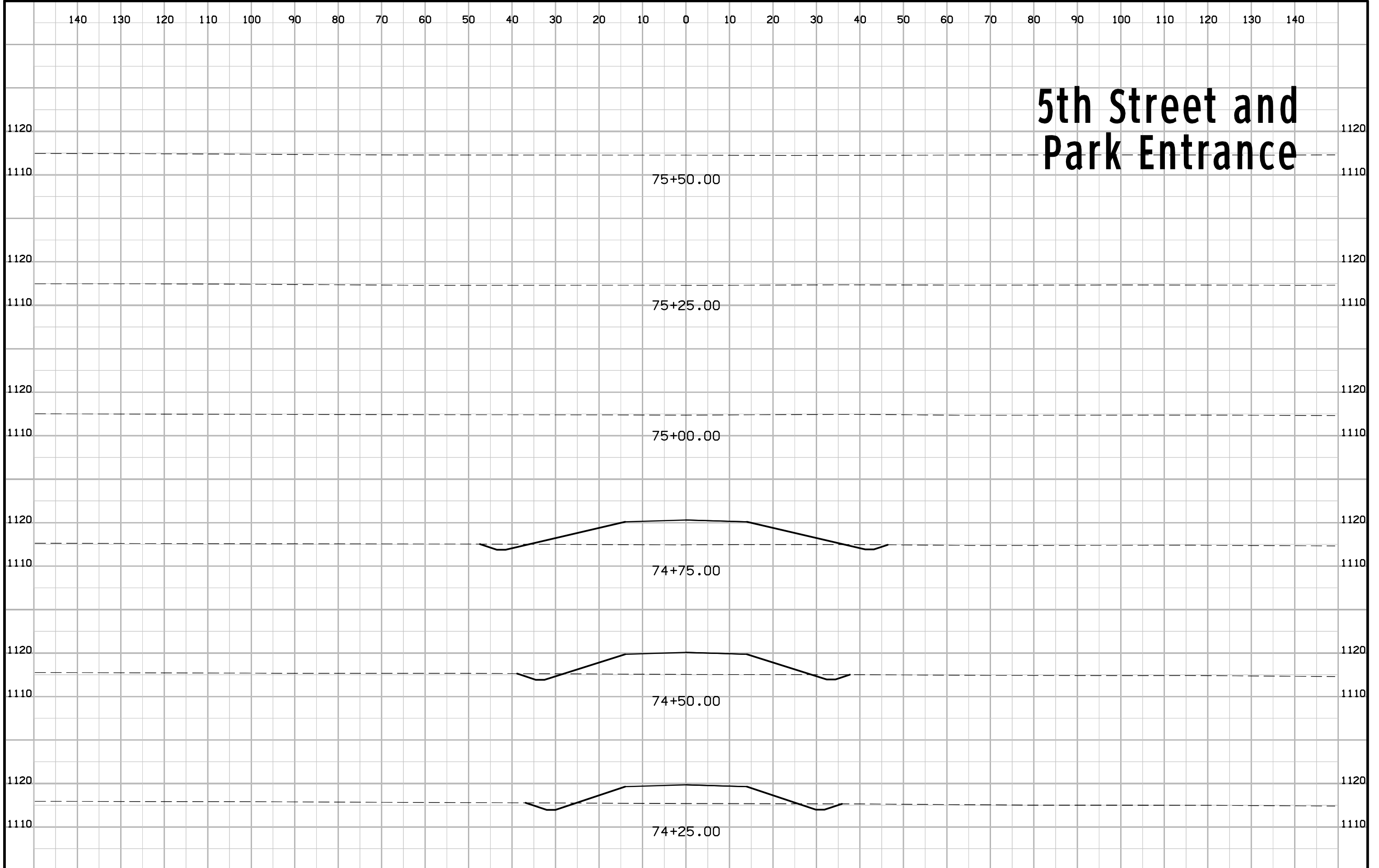
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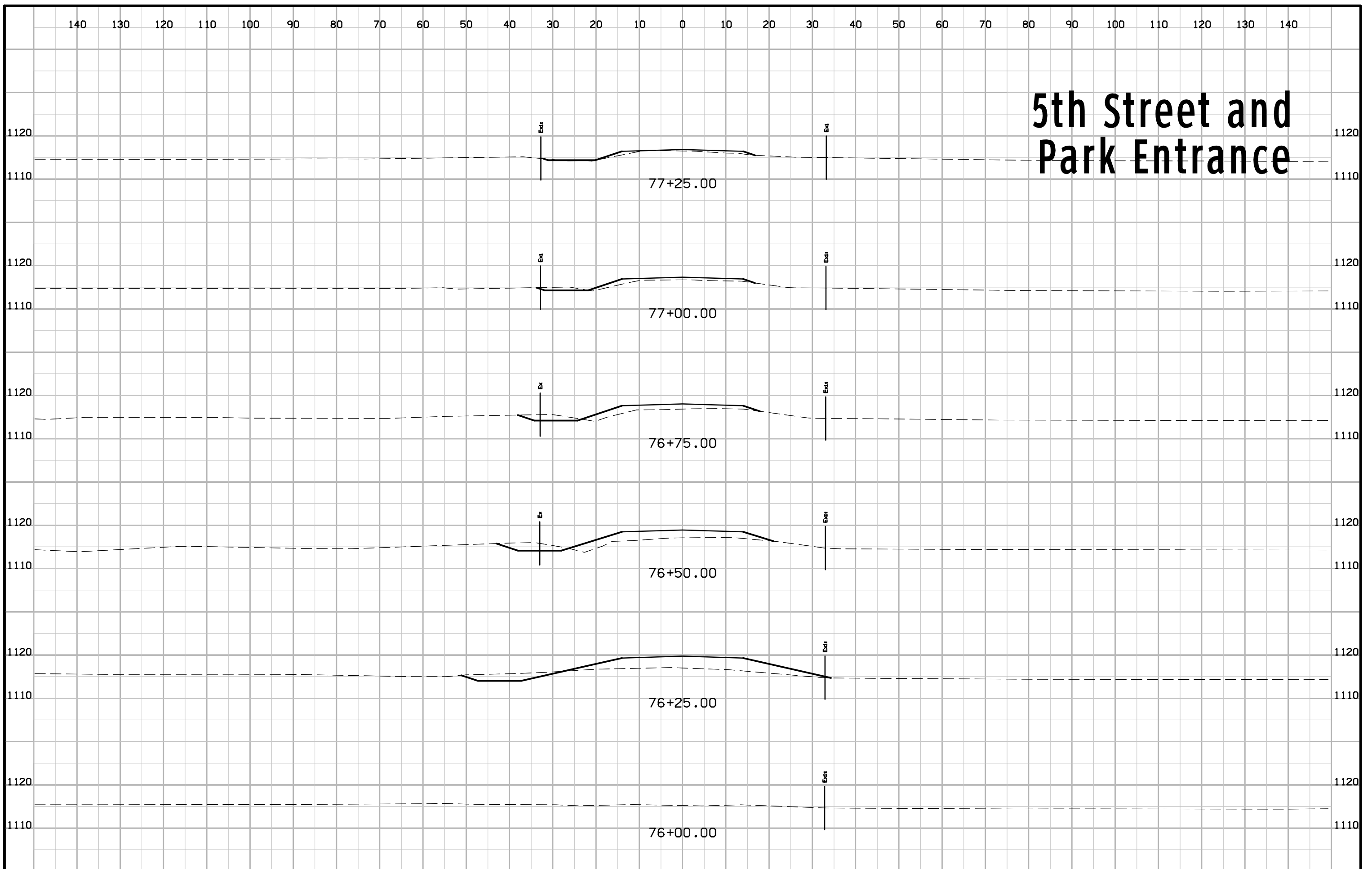
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5th Street and Park Entrance

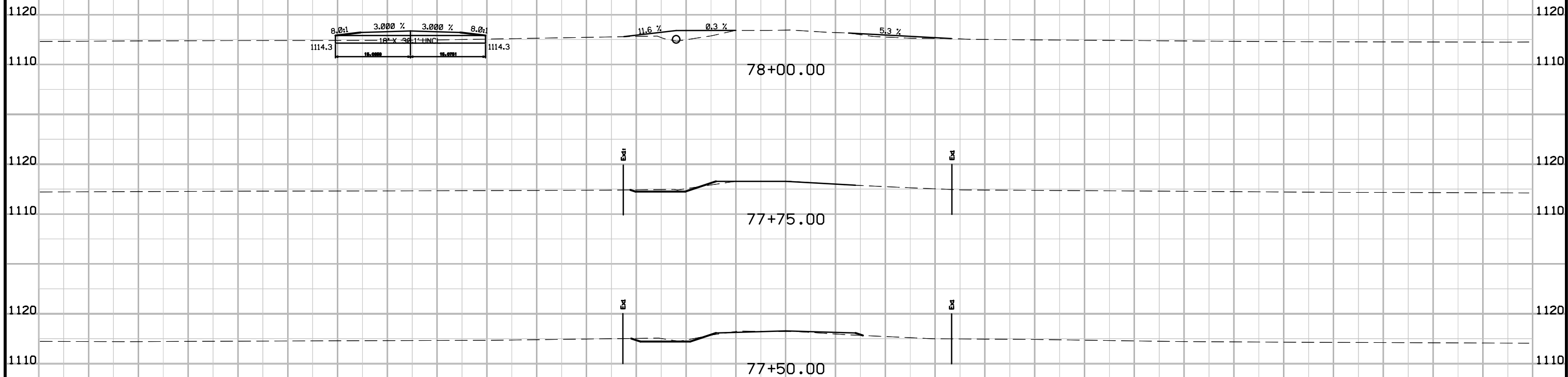


5th Street and Park Entrance



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5th Street and Park Entrance



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ENGLISH

IOWA DOT

DESIGN TEAM

JIA\MILLER\SMYTH

WOODBURY COUNTY

PROJECT NUMBER

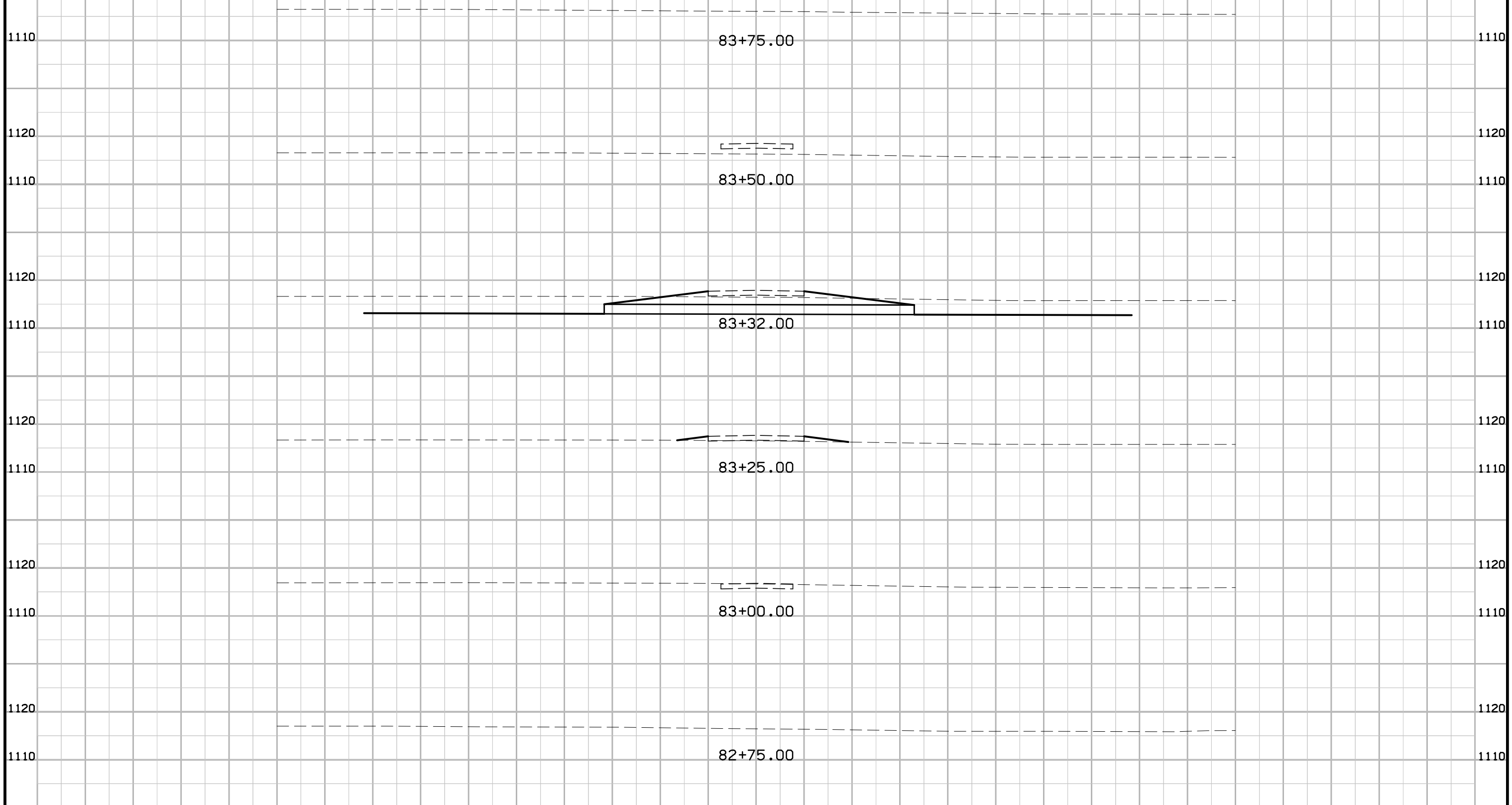
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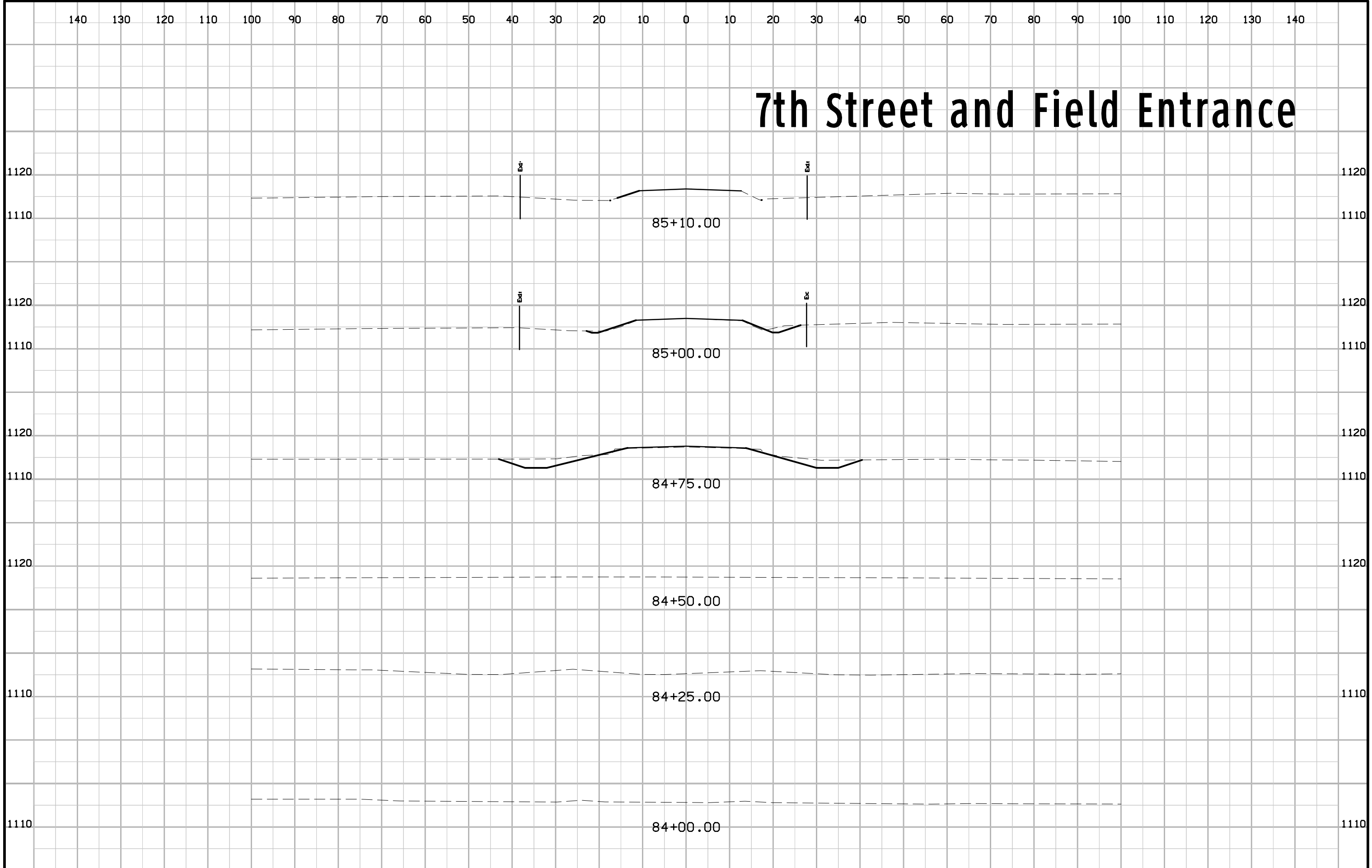
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7th Street and Field Entrance



7th Street and Field Entrance



Sioux

