

LETTING DATE
12-20-2022

BRIDGE REPLACEMENT-PPCB
BRFN-014-4(67)--39-50

JASPER CO.



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
JASPER COUNTY
BRIDGE REPLACEMENT-PPCB

Alloway Creek 1.6 mi W of IA 224

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



REVISIONS

TOTAL

26

PROJECT IDENTIFICATION NUMBER

18-50-014-010

PROJECT NUMBER

BRFN-014-4(67)--39-50

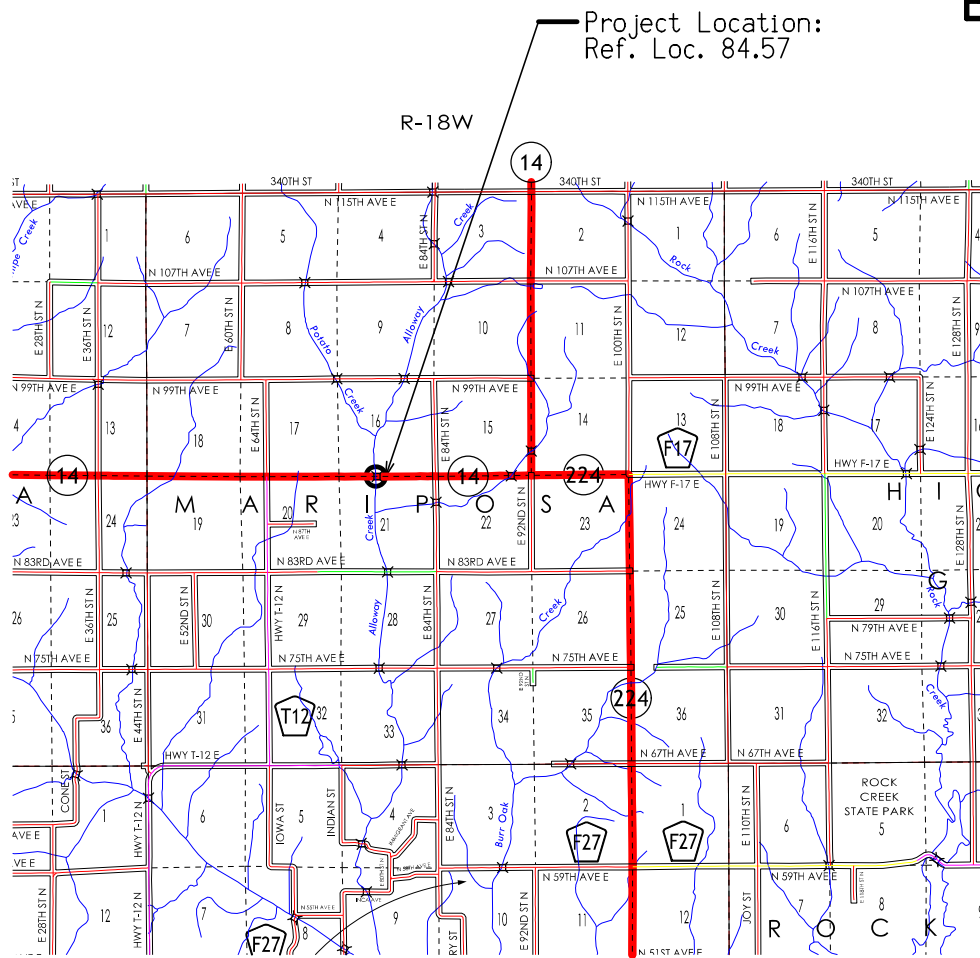
R.O.W. PROJECT NUMBER

NHSN-014-4(68)--2R-50

INDEX OF SHEETS

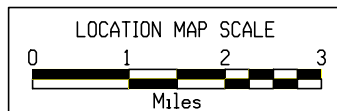
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.1	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 2	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 5	"Iowa Highway 14"
G Sheets	Survey Sheets
G.1 - 3	Reference Ties and Bench Marks
J Sheets	Traffic Control and Staging Sheets
* J.1	Traffic Control Plan
* J.1	Staging Notes Stage
* J.2	Detour Map
V Sheets	Bridge and Culvert Situation Plans
V.1 - 2	Bridge and Culvert Situation Plans
W Sheets	Mainline Cross Sections
W.1 - 11	Mainline Cross Sections
	* Color Plan Sheets

H Sheets



Project Location:
Ref. Loc. 84.57

R-18W



DESIGN DATA RURAL

2023	AADT	1520	V.P.D.
2043	AADT	1720	V.P.D.
20	DHV		V.P.H.
	TRUCKS	17	%
	Total		
	Design ESALs		

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	X	Primary Signature Block
X	X	X

D4 PLAN - Date: 8-23-2022
B3 PLAN - Date: 10-4-2022

PRELIMINARY PLANS

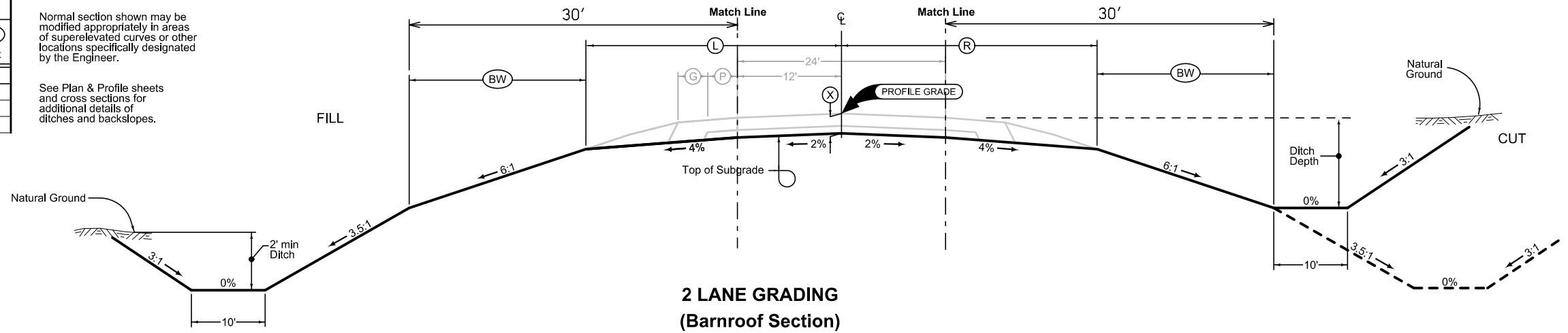
Subject to change by final design.

D5 PLAN - Date: 2-3-2021

LOCATION		DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION	(L) Feet	(R) Feet	(X) Inches	(BW) Feet
Iowa 14	675+94.18 685+24.18			21	

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

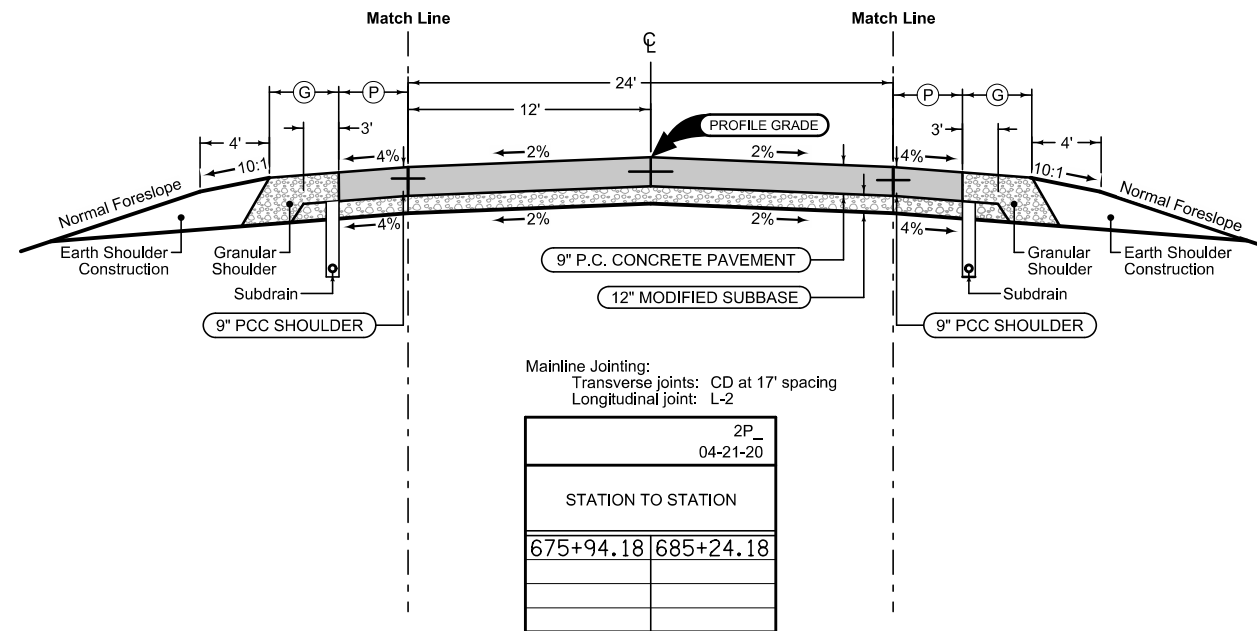
See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.



Full Depth PCC Combination Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 17' spacing

2_C_FullPCC_04-21-20			
STATION TO STATION	(P) Feet	(G) Feet	
675+94.18 685+24.18	4	6	

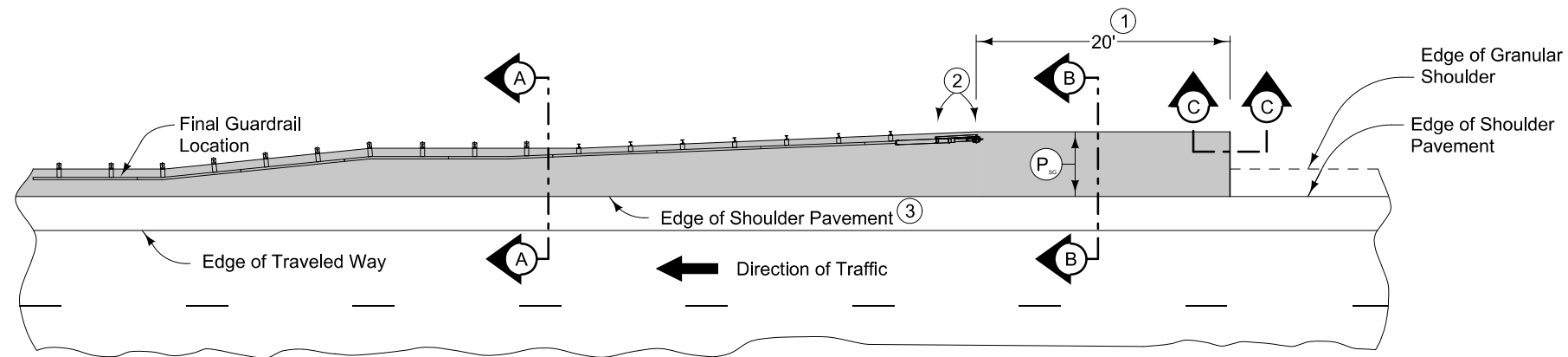


Full Depth PCC Combination Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 17' spacing

2_C_FullPCC_04-21-20			
STATION TO STATION	(P) Feet	(G) Feet	
675+94.18 685+24.18	4	6	

2P_04-21-20	
STATION TO STATION	
675+94.18 685+24.18	



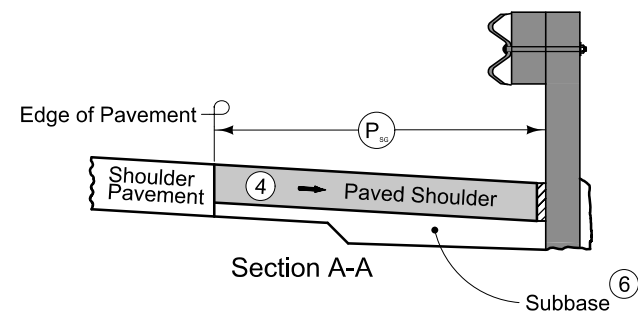
PLAN VIEW

8" HMA Paved Shoulder at guardrail.

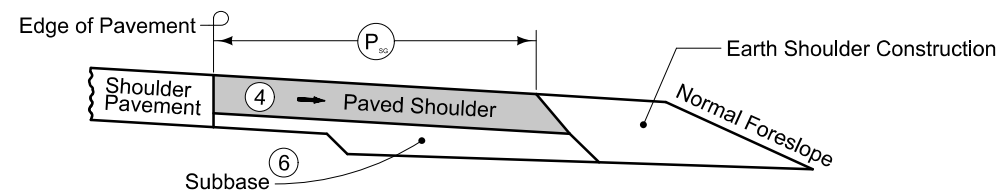
Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

- ① Continue paved shoulder 20 feet beyond the center of the first post.
- ② Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- ③ 'B' joint for HMA shoulder.
- ④ Match shoulder slope.
- ⑤ The Contractor has the option to pave the paved shoulder at guardrail and the partial width paved shoulder as one operation.
- ⑥ Refer to other details in the plan.

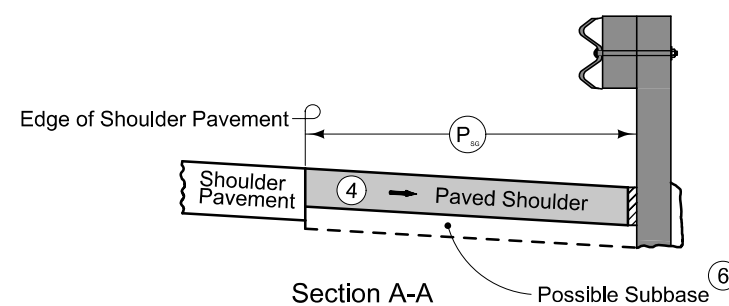


Section A-A

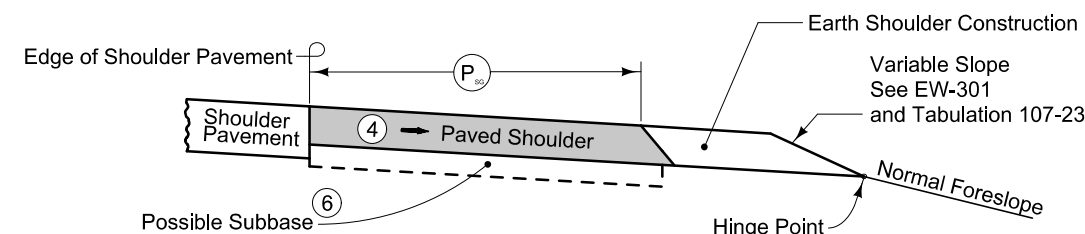


Section B-B

NEW CONSTRUCTION

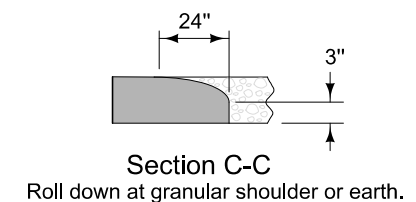


Section A-A



Section B-B

EXISTING SHOULDER



PAVED SHOULDER AT GUARDRAIL
(ADJACENT TO PARTIAL WIDTH PAVED SHOULDER)

SURVEY SYMBOLS

SURVEY SYMBOLS

- ▲ PCP Photo Control Point
- FENO FENO Monument
- EP Edge of Paved Roads (ML or SR)
- WC Wild Card (Misc. Field Shot)
- ▲ SCR Section Corner
- REF Reference Tie Point
- BRG Bridge
- ENT Centerline BL of Entrance
- SOP Size of Pipe or Culvert
- PIP Pipe Culvert
- BLS Bridge Low Steel
- BL Topo Breakline
- LIN Miscellaneous Line
- D Centerline Draw or Stream (Down)
- DTM Photogrammetry Elv Control Check
- ▲ RIP Rip-Rap
- PLG Location of General Photo
- SNP Unpaved Shoulder
- C Centerline BL of Road (ML or SR)
- ENU Edge Unpaved Entrance & Parking
- CP Control Point
- BNK Stream Bank
- PPA Power Pole Co. 1
- TA TA Tower Anchor
- ⊕ MH Utility Access (Manhole)
- SP Stream Profile
- TW Top of Water
- TP TPD Telephone Pedestal
- SH Paved Shoulder
- GU Gutter In Front of Curb
- CU Back of Curb
- GDL Guard Rail Steel
- OUT Tile Outlet
- TILE TIL Tile Line
- ← DU Centerline Draw or Stream (Up)
- CON Concrete or A/C Slab
- EW Edge of Water
- BCL Bridge Centerline
- BD Bridge Deck
- SBR Size of Bridge
- T1 TL1D Telephone Line Co. 1 - Quality D
- W WL1D Water Line Co. 1 - Quality D
- F0 FO1D Fiber Optic Co. 1 - Quality D
- F02 FO2D Fiber Optic Co. 2 - Quality D

UTILITY LEGEND

This is a POINT 25 Project and is subject to the provisions of IAC 761-115.25.

- T1- Centurylink
Steve Parker
2103 E. University Ave.
Des Moines, IA 50317
(515) 265-0968
Steven.Parker4@centurylink.com
- F0- Heart of Iowa Communications Cooperative
Jay Duncan
502 Main Street
Union, IA 50258-0130
(641) 486-2211
jduncan@heartofiowa.coop
- F02- Partner Communications Cooperative
Mr. Tracy Decker
101 E Church Street
Gilman, IA 50106-0008
(641) 498-3111
tdecker@pcctel.net
- W- Iowa Regional Utilities Association
Matt Mahler
1351 Iowa Speedway Drive
Newton, IA 50208
(800) 400-6066
mmahler@irua.net

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

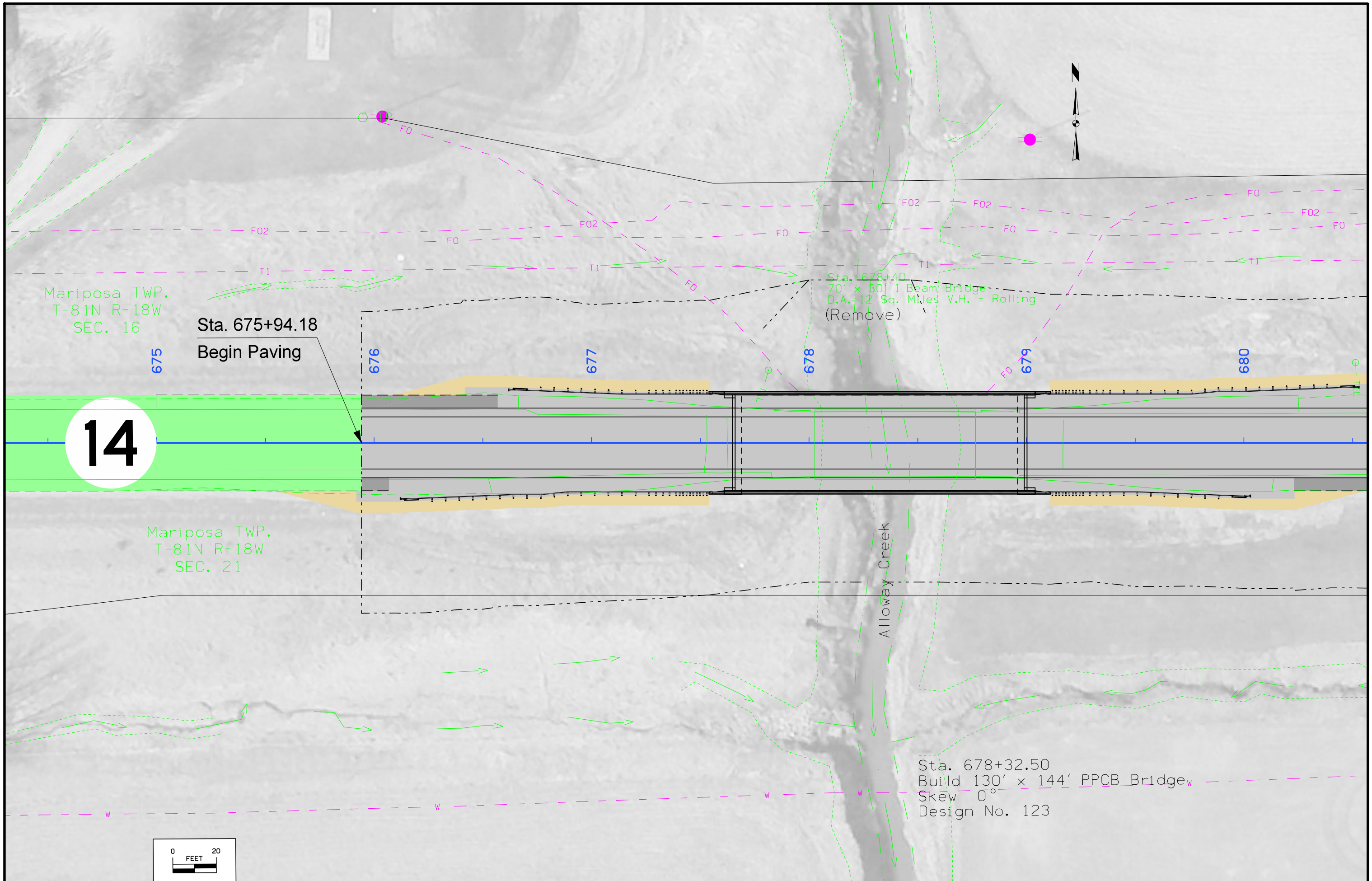
LINEWORK	Design Color No.	
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

- 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
 - C/A Access Control
 - Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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



14

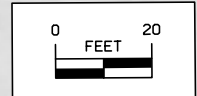
Mariposa TWP.
T-81N R-18W
SEC. 16

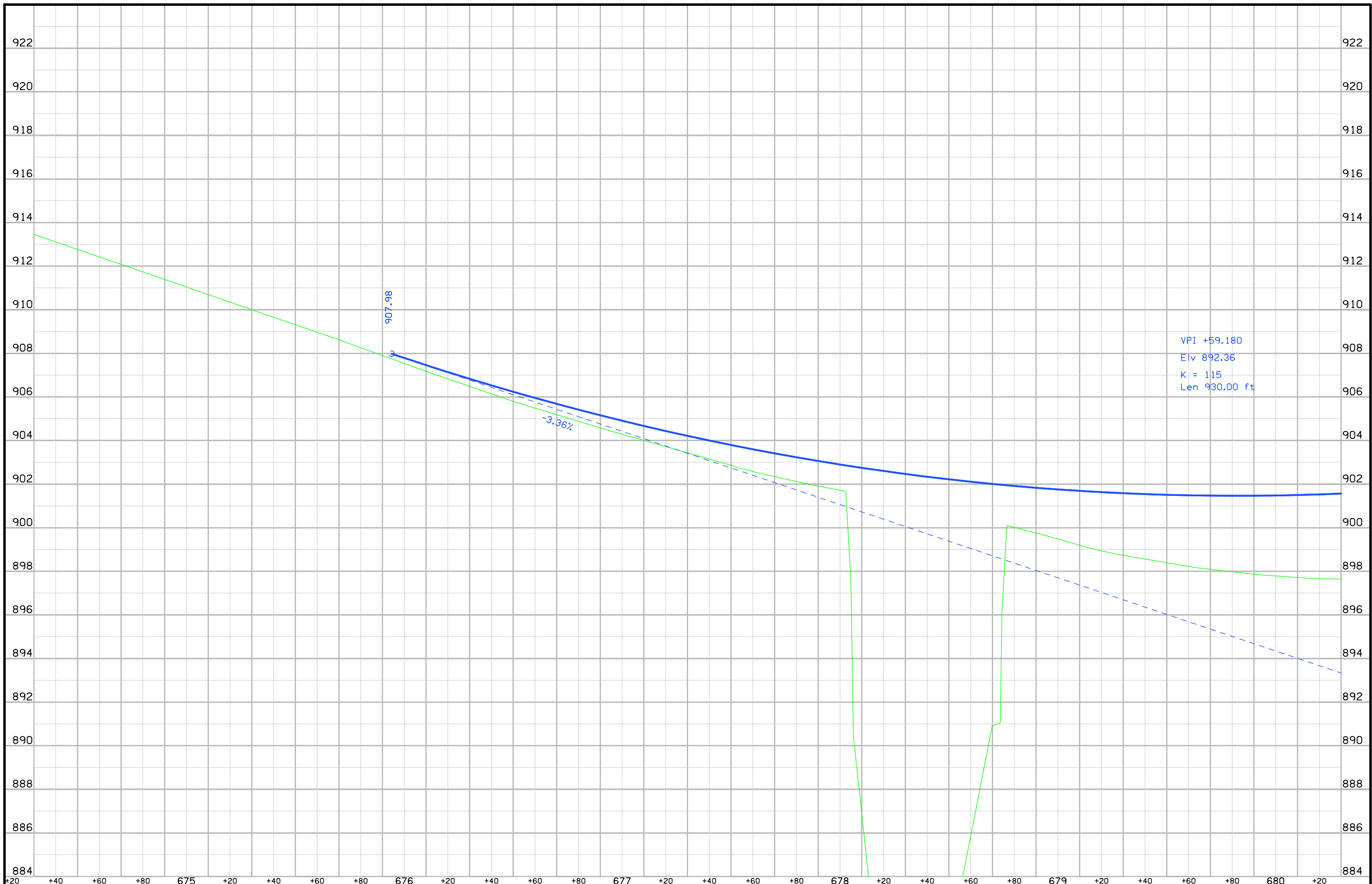
Sta. 675+94.18
Begin Paving

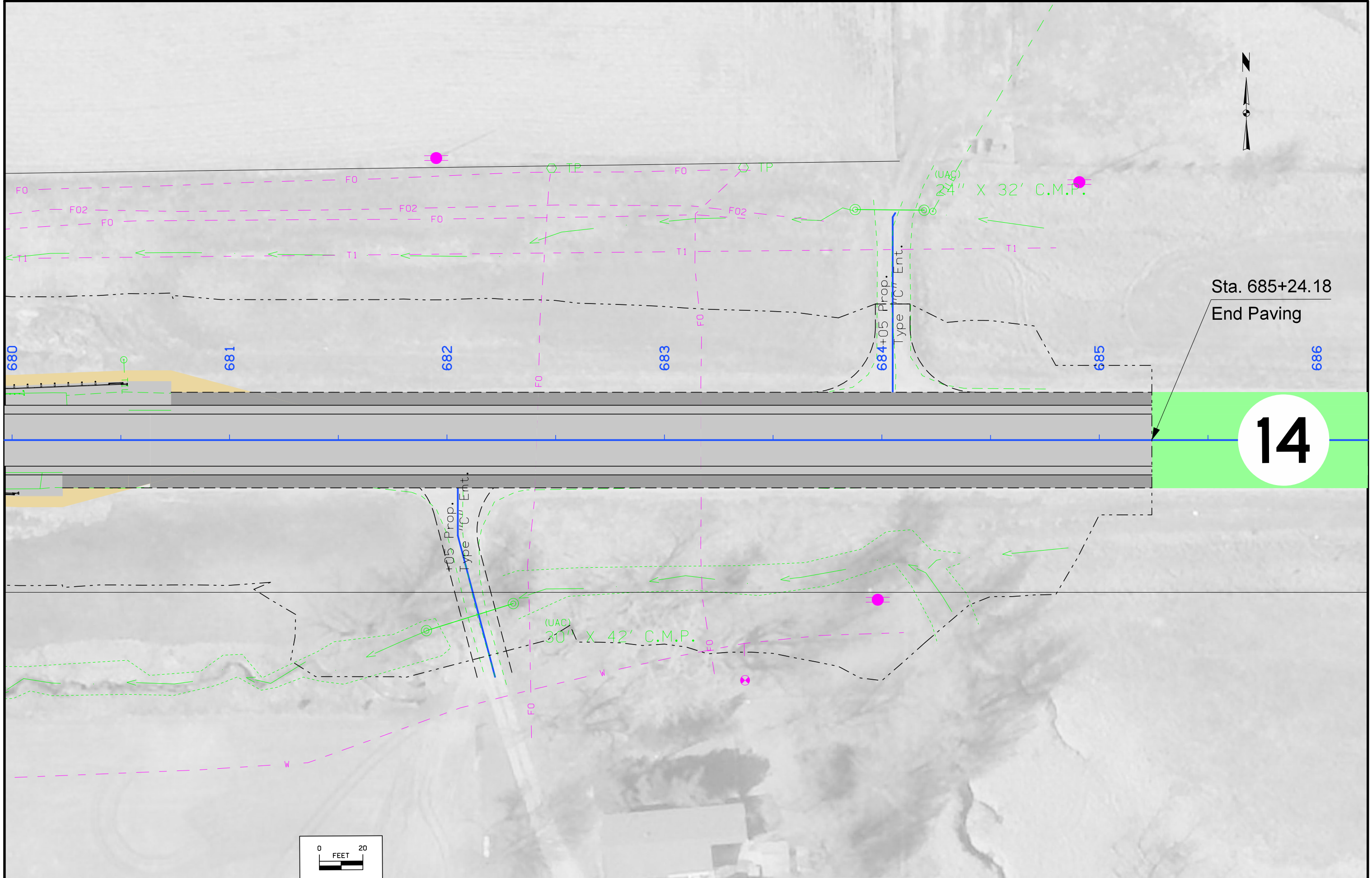
Mariposa TWP.
T-81N R-18W
SEC. 21

Sta. 678+40
70' x 80' I-Beam Bridge
D.A.=12 Sq. Miles V.H. - Rolling
(Remove)

Sta. 678+32.50
Build 130' x 144' PPCB Bridge
Skew 0°
Design No. 123

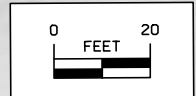


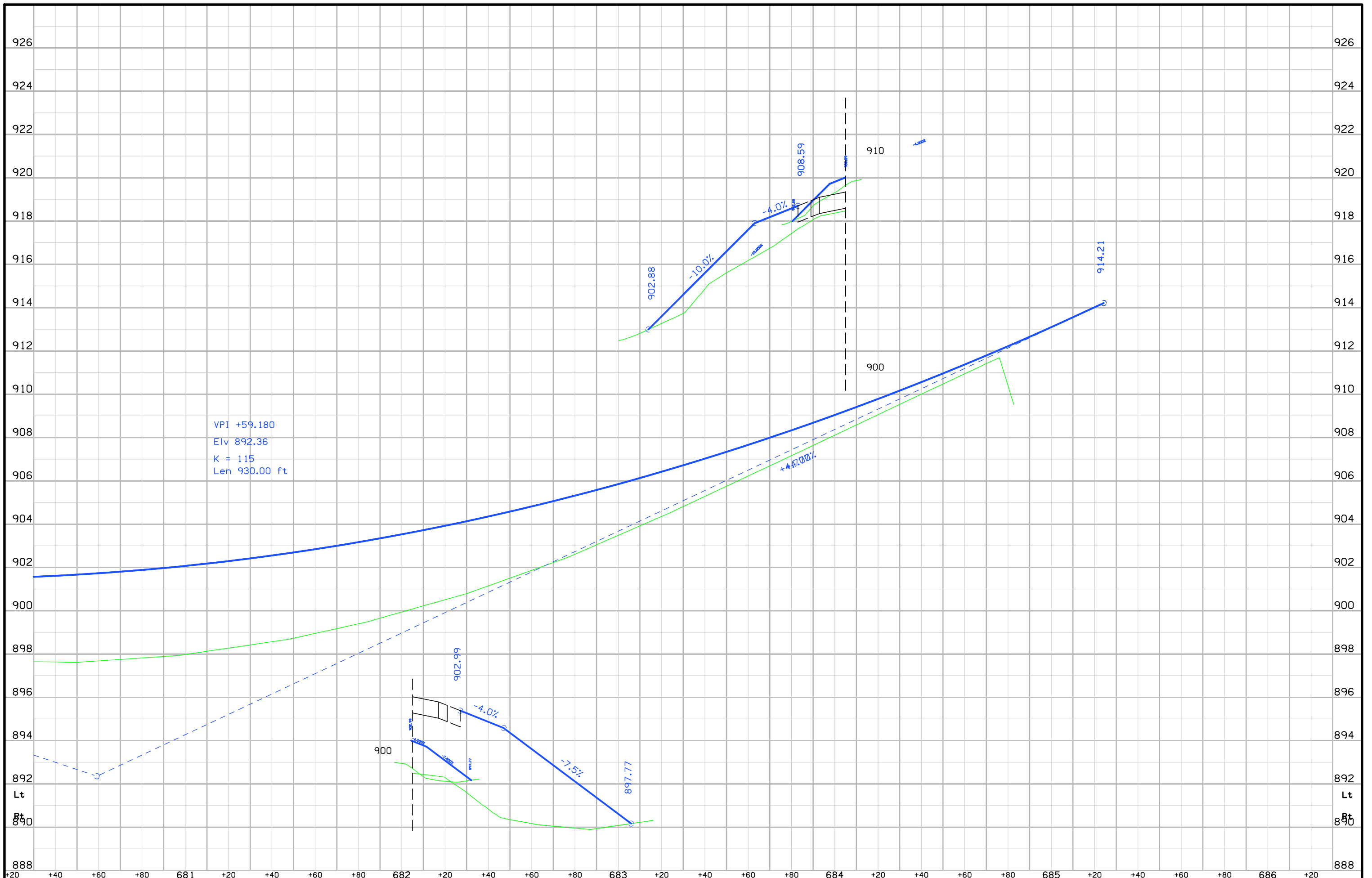




Sta. 685+24.18
End Paving

14





VPI +59.180
 Elev 892.36
 K = 115
 Len 930.00 ft

Survey Information

Jasper County
BRFN-014-4(67)--39-50
Alloway Creek 1.6 mi S of IA 224
18-50-014-010
Sap-822.2

Date(s) of Survey

Begin Date 02/26/2019
End Date 07/02/2019

General Information

Measurement units for this survey are US survey feet. This survey is for unspecified bridge work @ Alloway Creek 1.6 mi S of IA 224. Project datum and control information is provided by Design Survey Office. This project is a partial field survey supplemented with photo control.

Vertical Control

Vertical Control was established on this project by 6 hour static sessions. Vertical datum for this survey is relative to NAVD88. Geoid 12 B was used in processing. GRS80 Ellipsoidal Height was computed at project Pts. CP 4 and CP 5. Vertical control was checked with IARTN checks.

This survey observed a Bridge Seat Elevation to compare to local ground control:

West Bridge Seat @ Alloway Creek Project # 764 (2) Elev. = 452.79
= West Bridge Seat @ Alloway Creek Creek Survey Elev. = 897.55

Horizontal Control

The project coordinate system for this survey is Iowa RCS Zone 9 (U.S. Survey Feet). This survey control is relative to IARTN reference stations. IARTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011). Coordinates were determined by conducting six hour static observations. Additional control points were placed throughout the project using a GNSS Base-Rover setups. A minimum of three observations were collected with 1 hour or greater time span between each observation. Horizontal control was checked with IARTN checks.

Point Name	Northing	Easting	Elevation	Description
CP 2	7771904.517	19471126.737	946.282	FENO MONUMENT
CP 4	7771998.223	19464826.273	971.980	FENO MONUMENT
CP 5	7771964.772	19459666.611	994.969	FENO MONUMENT

Alignment Information

IA Hwy 14

The horizontal alignment for this survey is created from As-built Plans Project # 764 B. Survey stationing was equated to the Plan PI @ Sta. 727+29.70 and run back and ahead without equation throughout the survey.

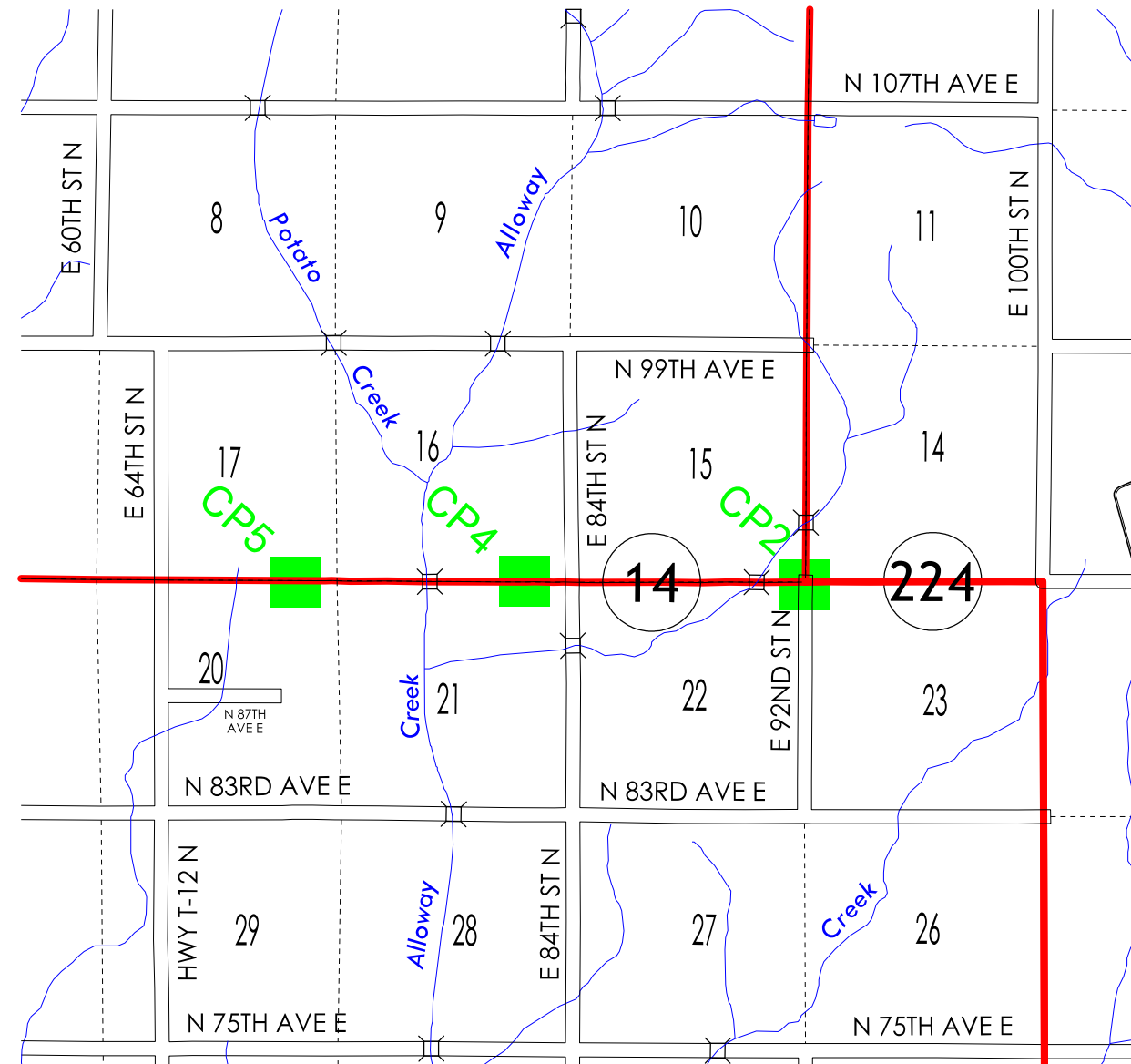
Survey stationing relates to as built plan stationing as follows:

PI Sta. 596+28.10 As-built Plans Project No. 764 B
= PI Sta. 596+35.37 this survey

PI Sta. 727+29.70 As-built Plans Project No. 764 B
= PI Sta. 727+29.70 this survey

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points
 Primary control is for use with RTK base stations and for RTN validation.
 Future surveys will use primary project control to establish temporary
 control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 9

Coordinate listing from next sheet will be used with 1aRTN for monument
 recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

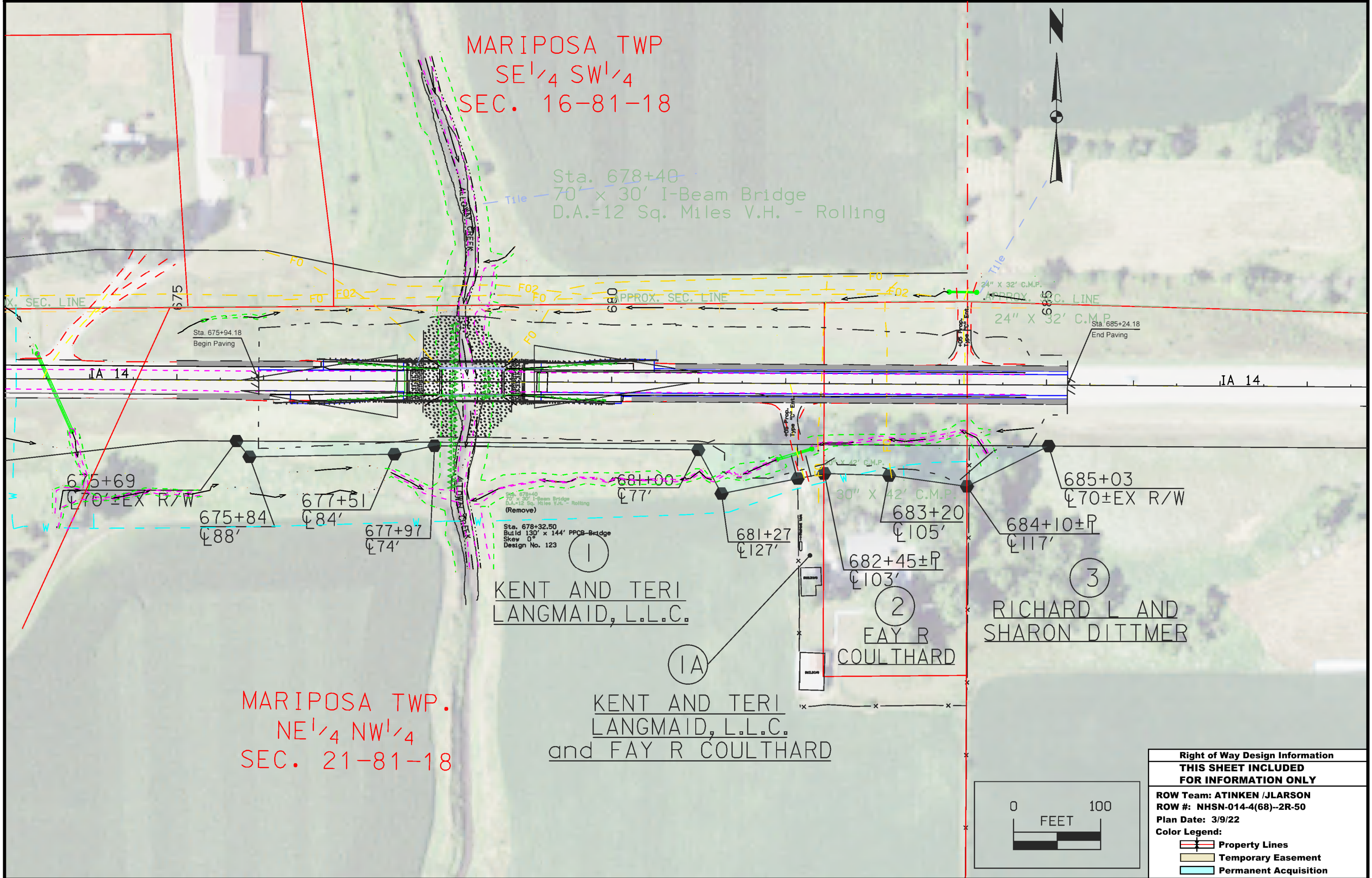
Ia. Regional Coordinate System Zone 9

Point Name	North	East	Elevation	Feature Definition	Description
CP2	7771904.52	19471126.74	946.28	FENO	SET FENO MONUMENT__Stamped IOWA DEPT OF TRANS SURVEY MARKER_Set near the W. shoulder of 92nd St._.5' below ground_70' SW of intersection IA Hwy 14 & E 92nd St._64' S. of IA Hwy 14_29' W. of E 92nd St._56' N. of N. corner of HDWL of box culvert.
CP4	7771998.22	19464826.27	971.98	FENO	SET FENO MONUMENT__Stamped IOWA DEPT OF TRANS SURVEY MARKER_Set near the shoulder N. of IA Hwy 14,_5' below ground,_28' N. of Hwy 14,_86' S. of fence_76' NW mile marker 85 sign_136' E of top inlet conc pipe.
CP5	7771964.77	19459666.61	994.97	FENO	SET FENO MONUMENT__Stamped IOWA DEPT OF TRANS SURVEY MARKER_Set near the toe slope, S. of IA Hwy 14,_5' below ground,_69' SW of address sign 7294 IA Hwy 14_37' S. of IA Hwy 14, 45' N. of fence_64' E. mile marker 84 sign_105' E. of power pole.

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.

MARIPOSA TWP
SE 1/4 SW 1/4
SEC. 16-81-18

Sta. 678+40
Tile - 70' x 30' I-Beam Bridge
D.A.=12 Sq. Miles V.H. - Rolling



MARIPOSA TWP.
NE 1/4 NW 1/4
SEC. 21-81-18

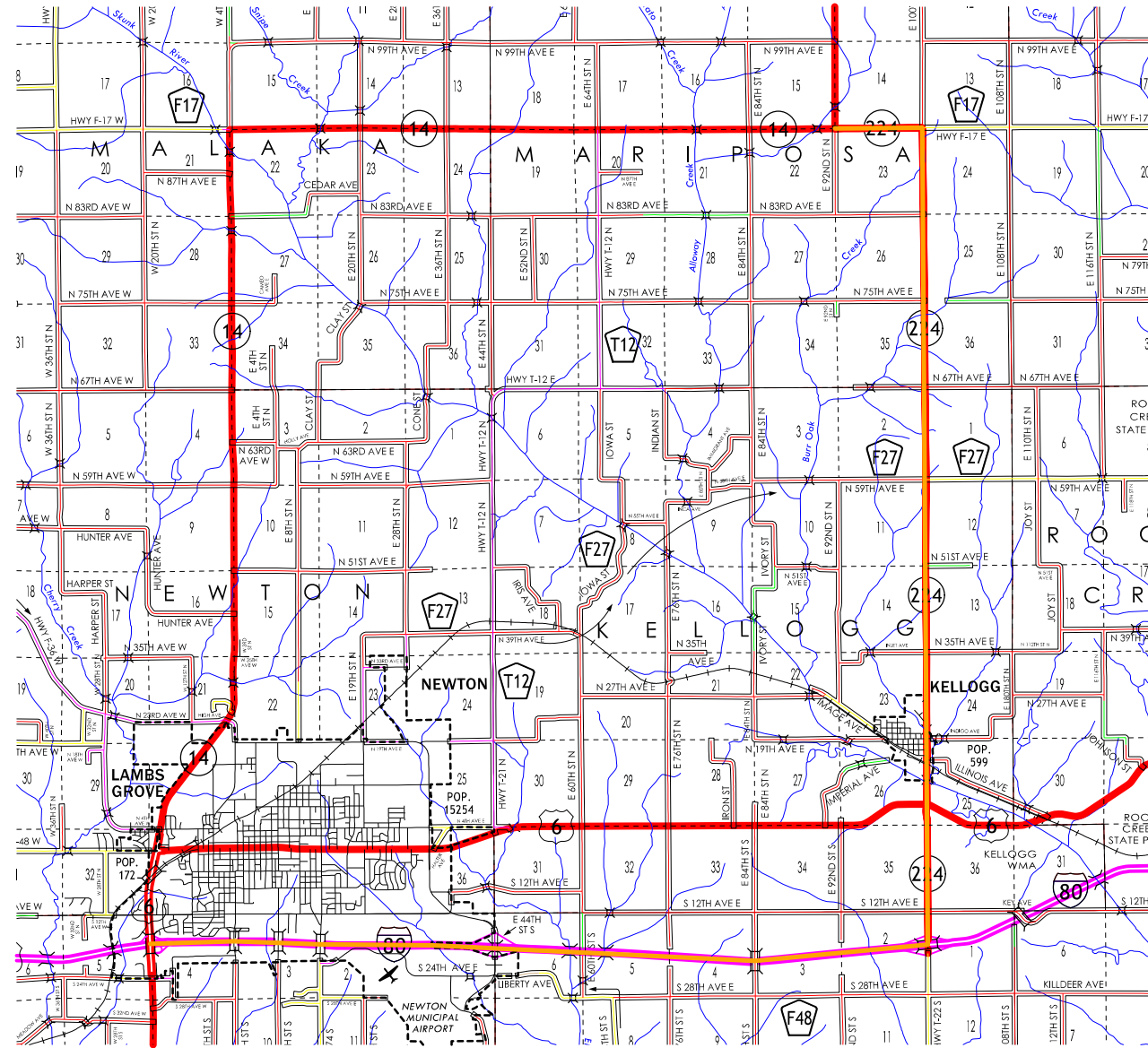
1
KENT AND TERI
LANGMAID, L.L.C.

2
FAY R
COULTHARD

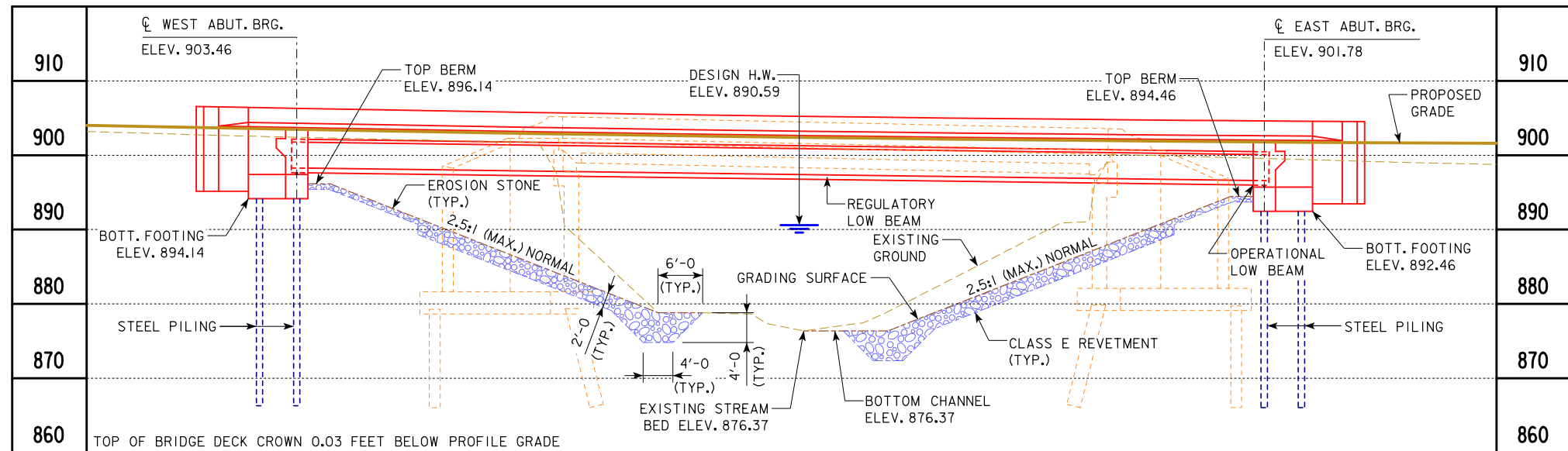
3
RICHARD L AND
SHARON DITTMER

IA
KENT AND TERI
LANGMAID, L.L.C.
and FAY R COULTHARD

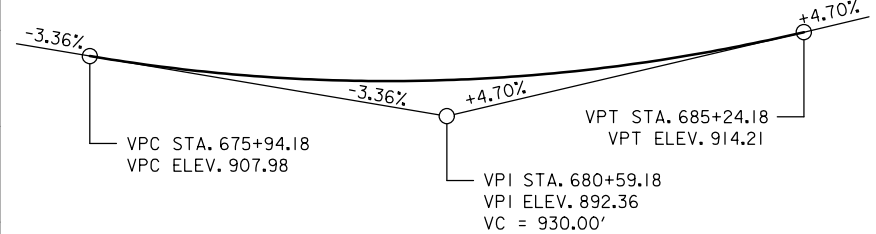
Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: ATINKEN /JLARSON	
ROW #: NMSN-014-4(68)--2R-50	
Plan Date: 3/9/22	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



Detour Route



CONTROL POINT 4: NORTHING 7771998.22 EASTING 19464826.27 ELEVATION 971.98
 DESCRIPTION: SET FENO MONUMENT STAMPED IOWA DEPT OF TRANS SURVEY MARKER.
 SET NEAR SHOULDER N. OF IA HWY 14, .5' BELOW GROUND, .28' N. OF HWY 14, .86' S.
 OF FENCE, .76' NW MILE MARKER 85 SIGN, 136' E OF TOP INLET CONC PIPE.



PROPOSED PROFILE GRADE ON IOWA HIGHWAY 14

HYDRAULIC DATA

DRAINAGE AREA = 12.20 SQ. MI.
 STREAM SLOPE = 12.12 FT./MI.
 Q₅₀ (DESIGN) = 3,840 CFS
 STAGE = 890.59 FT.
 REGULATORY LOW BEAM = 896.62 FT.
 BACKWATER = 0.19 FT.
 AVG. BRIDGE VELOCITY = 3.90 FPS

TRAFFIC ESTIMATE

2023 AADT	1520	V.P.D.
2043 AADT	1720	V.P.D.
2043 DHV	180	V.P.H.
TRUCKS (2023)	15	%
TRUCKS (2043)	17	%

Q₁₀₀ = 4,630 CFS
 STAGE = 890.92 FT.
 OPERATIONAL LOW BEAM = 895.97 FT.
 BACKWATER = 0.35 FT.

LOCATION

IOWA 14 OVER ALLOWAY CREEK
 T-81N R-18W
 SECTION 16 & 21
 MARIPOSA TOWNSHIP
 JASPER COUNTY
 FHWA NO. 30691
 BRIDGE MAINT. NO. 5084.5S014
 LATITUDE 41.819743°
 LONGITUDE -92.953566°

Q₂₀₀ = 5,230 CFS
 STAGE = 891.14
 DESIGN SCOUR ELEVATION = 875.76

Q₅₀₀ = 6,120 CFS
 STAGE = 891.41
 CHECK SCOUR ELEVATION = 872.22

ROADWAY OVERTOP 901.47
 STA. 679+81.91

UTILITY LEGEND

--E--	OVERHEAD ELECTRIC	CONSUMERS ENERGY
--FO--	FIBER OPTIC LINE	HEART OF IOWA COMMUNICATIONS
--F02--	FIBER OPTIC LINE	PARTNER COMMUNICATIONS
--T--	TELEPHONE LINE	CENTURY LINK
--W--	WATER LINE	IOWA REGIONAL UTILITY ASSOCIATION
●	POWER POLE	

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY,
 SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

HYDRAULIC DESIGN

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Steven A. Klocke 1-6-2020
 Signature Date
 Printed or Typed Name **Steven A. Klocke**

My license renewal date is December 31, 2021

Pages or sheets covered by this seal: 2 & 3 (HYDRAULIC DATA, CHANNEL GRADING AND REVETMENT)

PRELIMINARY

DESIGN FOR 0° SKEW

**130' x 44' PRETENSIONED
 PRESTRESSED CONCRETE BEAM BRIDGE**

130'-0 SINGLE SPAN

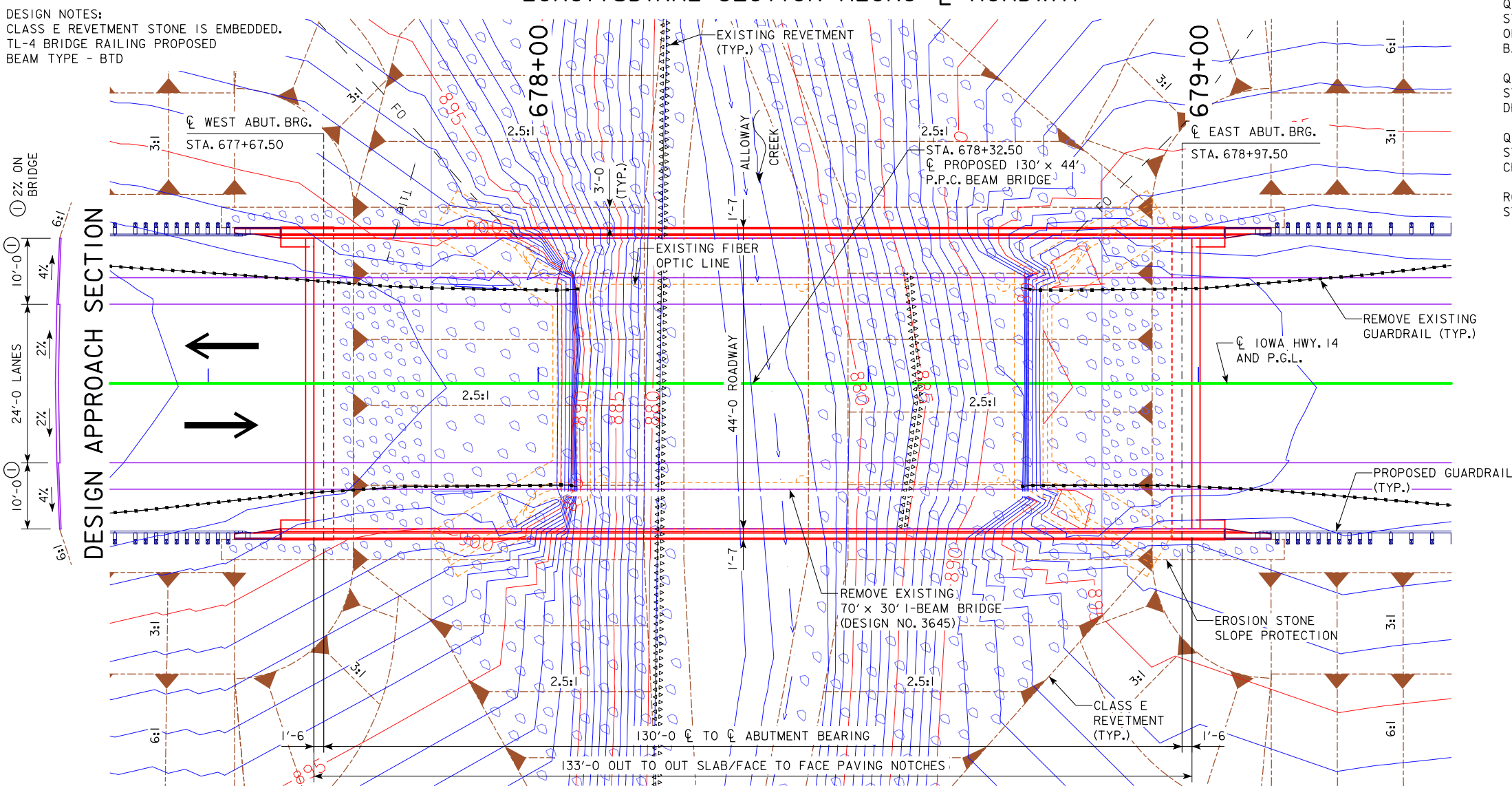
SITUATION PLAN

STA. 678+32.50 (IA 14) DECEMBER 2020

JASPER COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. 1 OF 2 FILE NO. 31710 DESIGN NO. 123

DESIGN NOTES:
 CLASS E REVETMENT STONE IS EMBEDDED.
 TL-4 BRIDGE RAILING PROPOSED
 BEAM TYPE - BTD



SITUATION PLAN

GENERAL NOTE:
 THIS DESIGN IS FOR THE REPLACEMENT OF THE EXISTING
 70' x 30' I-BEAM BRIDGE, JASPER DESIGN NO. 3645,
 FHWA NO. 30690, MAINTENANCE NO. 5084.5S014.



CONTROL POINT 4: NORTHING 7771998.22 EASTING 19464826.27 ELEVATION 971.98
 DESCRIPTION: SET FENO MONUMENT STAMPED IOWA DEPT OF TRANS SURVEY MARKER.
 SET NEAR SHOULDER N. OF IA HWY 14, .5' BELOW GROUND, .28' N. OF HWY 14, .86' S.
 OF FENCE .76' NW MILE MARKER 85 SIGN, 136' E OF TOP INLET CONC PIPE.

REVETMENT QUANTITIES				
LOCATION	REVETMENT CL. E (TON)	EROSION STONE (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
BERM LINING/STONE TOE - WEST ABUTMENT	720	-	740	450
SLOPE PROTECTION - WEST ABUTMENT	-	40	100	25
BERM LINING/STONE TOE - EAST ABUTMENT	768	-	780	480
SLOPE PROTECTION - EAST ABUTMENT	-	32	80	20
TOTALS	1488	72	1700	975

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.
 REVETMENT AND EROSION STONE ESTIMATED AT 1.6 TON/CY.
 BRIDGE WING ARMORING QUANTITIES ARE NOT INCLUDED ABOVE.

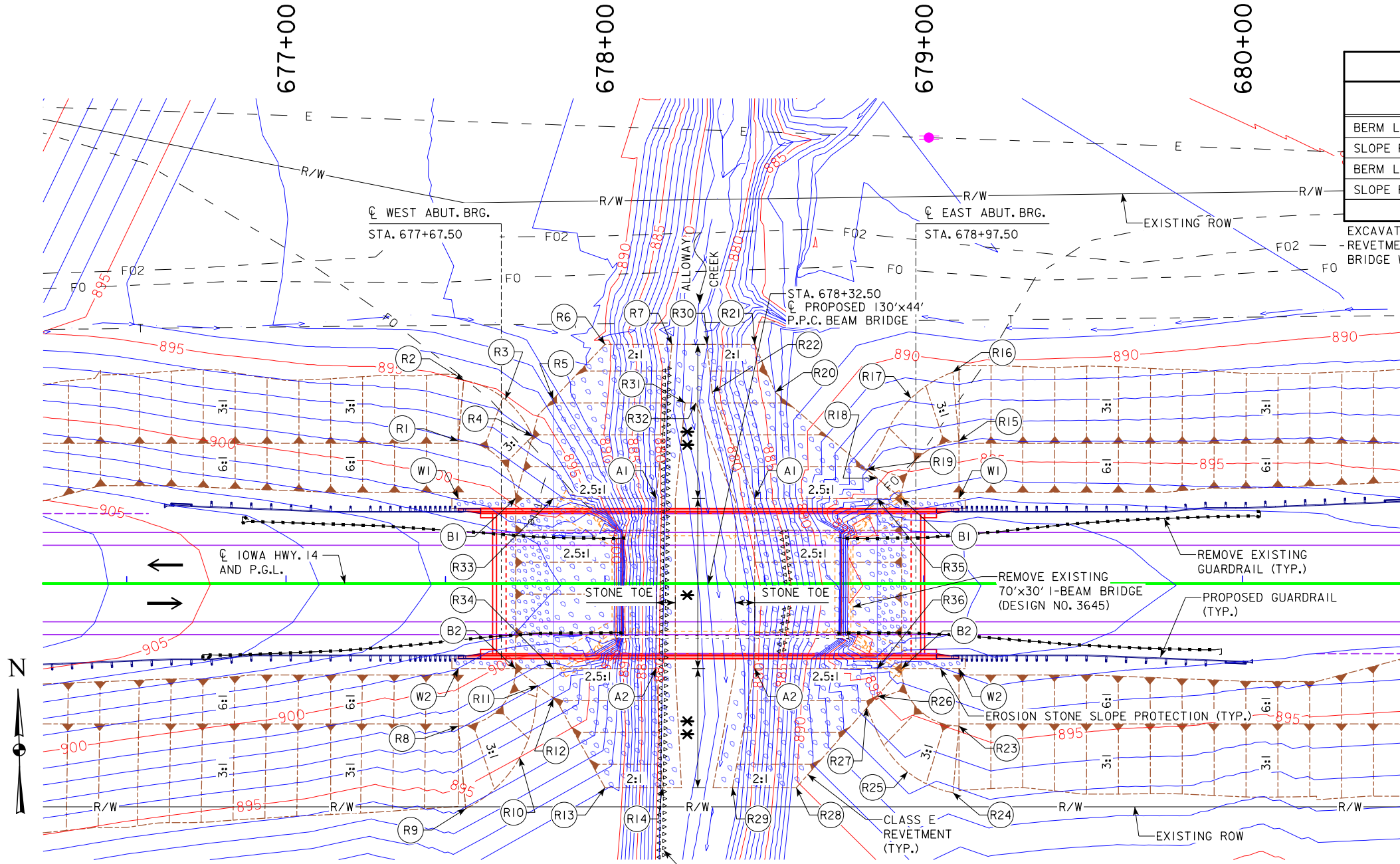
BERM SLOPE LOCATION TABLE						
POINTS	WEST ABUTMENT			EAST ABUTMENT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
A1	678+16.05	26.67' LT.	878.82	678+46.94	26.67' LT.	876.37
A2	678+16.05	26.67' RT.	878.82	678+46.94	26.67' RT.	876.37
B1	677+72.00	26.67' LT.	896.14	678+93.00	26.67' LT.	894.46
B2	677+72.00	26.67' RT.	896.14	678+93.00	26.67' RT.	894.46
W1	677+54.00	26.67' LT.	903.13	679+11.00	26.67' LT.	901.10
W2	677+54.00	26.67' RT.	903.13	679+11.00	26.67' RT.	901.10

BERM SLOPE ELEVATIONS REFLECT THE GRADING SURFACE

REVETMENT LAYOUT

(STATIONS AND OFFSETS MEASURED ALONG CL IOWA HWY. 14)

- (R1) 677+54.00, 44.67' LT.
- (R2) 677+55.70, 63.74' LT.
- (R3) 677+68.74, 57.75' LT.
- (R4) 677+77.26, 46.20' LT.
- (R5) 677+83.79, 57.83' LT.
- (R6) 678+00.00, 75.00' LT. Δ
- (R7) 678+21.00, 75.00' LT. BEG. STONE TOE
- (R8) 677+54.00, 44.67' RT.
- (R9) 677+56.36, 70.55' RT.
- (R10) 677+73.27, 54.63' RT.
- (R11) 677+78.85, 32.01' RT.
- (R12) 677+83.79, 36.11' RT.
- (R13) 678+00.00, 64.00' RT. Δ
- (R14) 678+18.00, 64.00' RT. BEG. STONE TOE
- (R15) 679+11.00, 44.67' LT.
- (R16) 679+09.10, 66.27' LT.
- (R17) 678+95.98, 58.09' LT.
- (R18) 678+85.40, 33.06' LT.
- (R19) 678+82.29, 35.68' LT.
- (R20) 678+53.39, 60.01' LT.
- (R21) 678+47.00, 75.00' LT. Δ
- (R22) 678+53.39, 60.00' LT. BEG. STONE TOE
- (R23) 679+11.00, 44.67' RT.
- (R24) 679+09.14, 65.56' RT.
- (R25) 678+94.94, 59.07' RT.
- (R26) 678+85.40, 35.27' RT.
- (R27) 678+82.09, 39.01' RT.
- (R28) 678+60.00, 64.00' RT. Δ
- (R29) 678+40.00, 64.00' RT. BEG. STONE TOE
- (R30) 678+32.00, 75.00' LT. BEG. STONE TOE
- (R31) 678+25.15, 56.67' LT.
- (R32) 678+28.48, 56.67' LT.
- (R33) 677+83.79, 26.67' LT. ΔΔ
- (R34) 677+83.79, 26.67' RT. ΔΔ
- (R35) 678+85.40, 26.67' LT. ΔΔ
- (R36) 678+85.40, 26.67' RT. ΔΔ

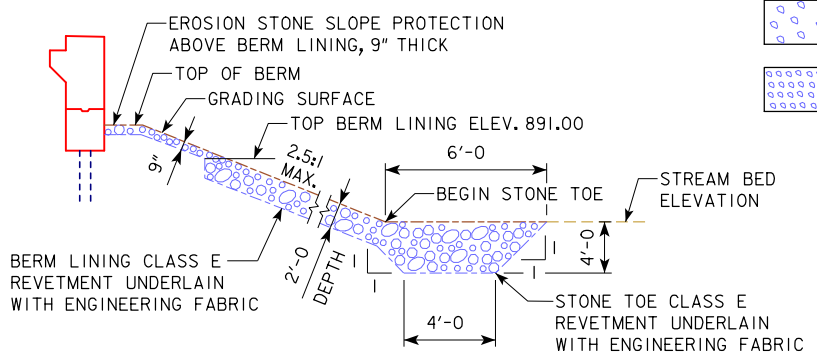


- * LIMITS OF 2.5:1 BRIDGE BERM SLOPES
- ** LIMITS OF TRANSITION FROM 2.5:1 BRIDGE BERMS TO 2:1 STREAM BANKS

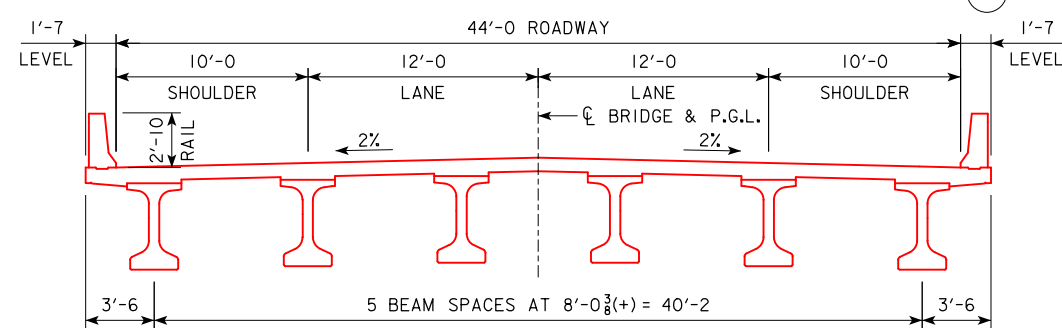
SITE PLAN

NOTES:
 Δ POINTS R6, R7, R30, R21, R13, R14, R29 AND R28 DEFINE THE TRANSITION FROM EXISTING STREAM BANK SLOPES TO 2:1 SLOPES.
 ΔΔ POINTS R33, R34, R35 AND R36 DEFINE THE TRANSITION OF EROSION STONE SLOPE PROTECTION TO CLASS E REVETMENT.

- INDICATES AREA OF CLASS E REVETMENT
- INDICATES AREA OF EROSION STONE



SECTION THROUGH STONE TOE AND BERM LINING



TYPICAL SECTION (BTD BEAMS)



PRELIMINARY

DESIGN FOR 0° SKEW

130' x 44' PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE

130'-0" SINGLE SPAN

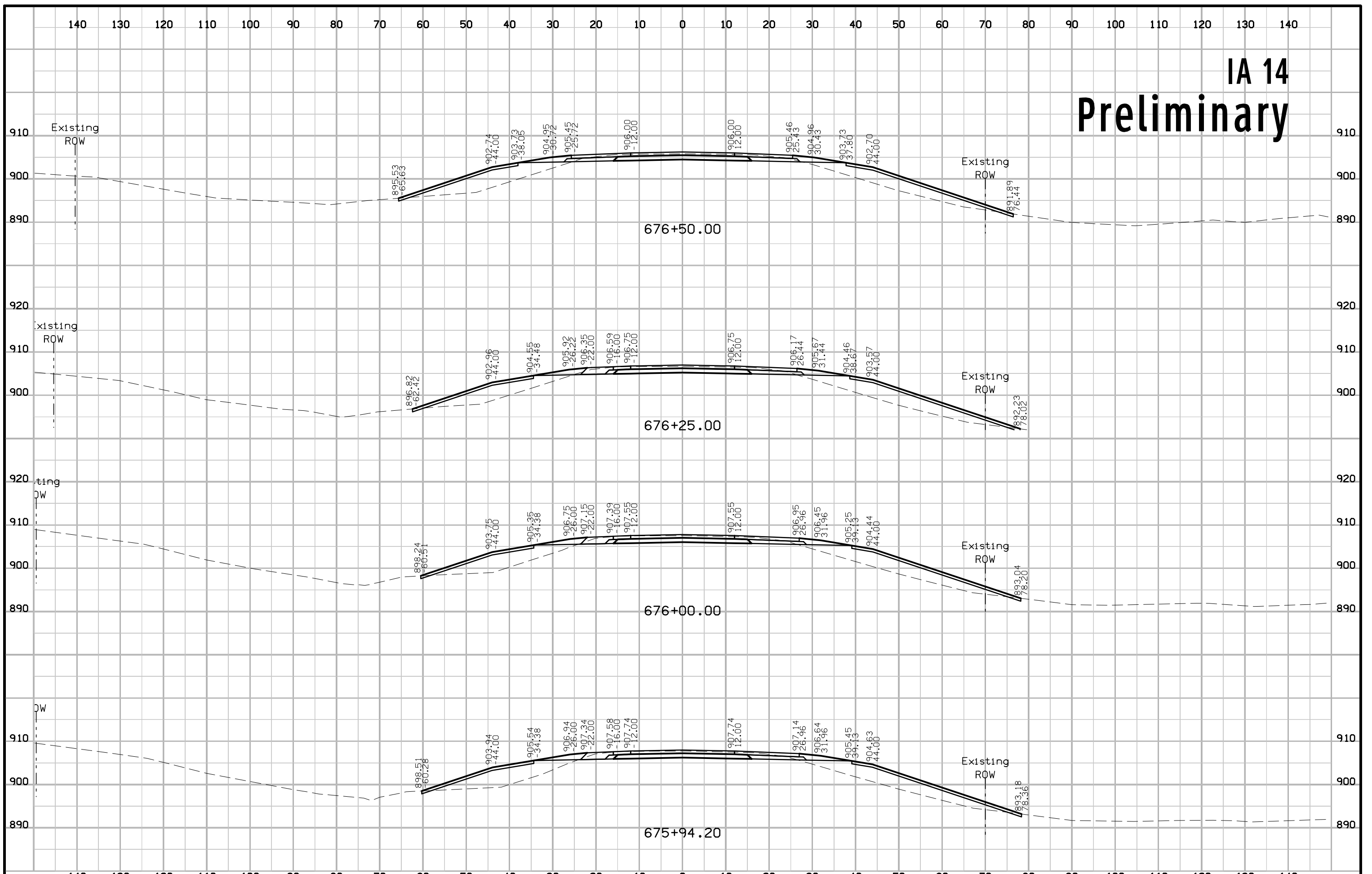
SITUATION PLAN - SITE

STA. 678+32.50 (IA 14) DECEMBER 2020

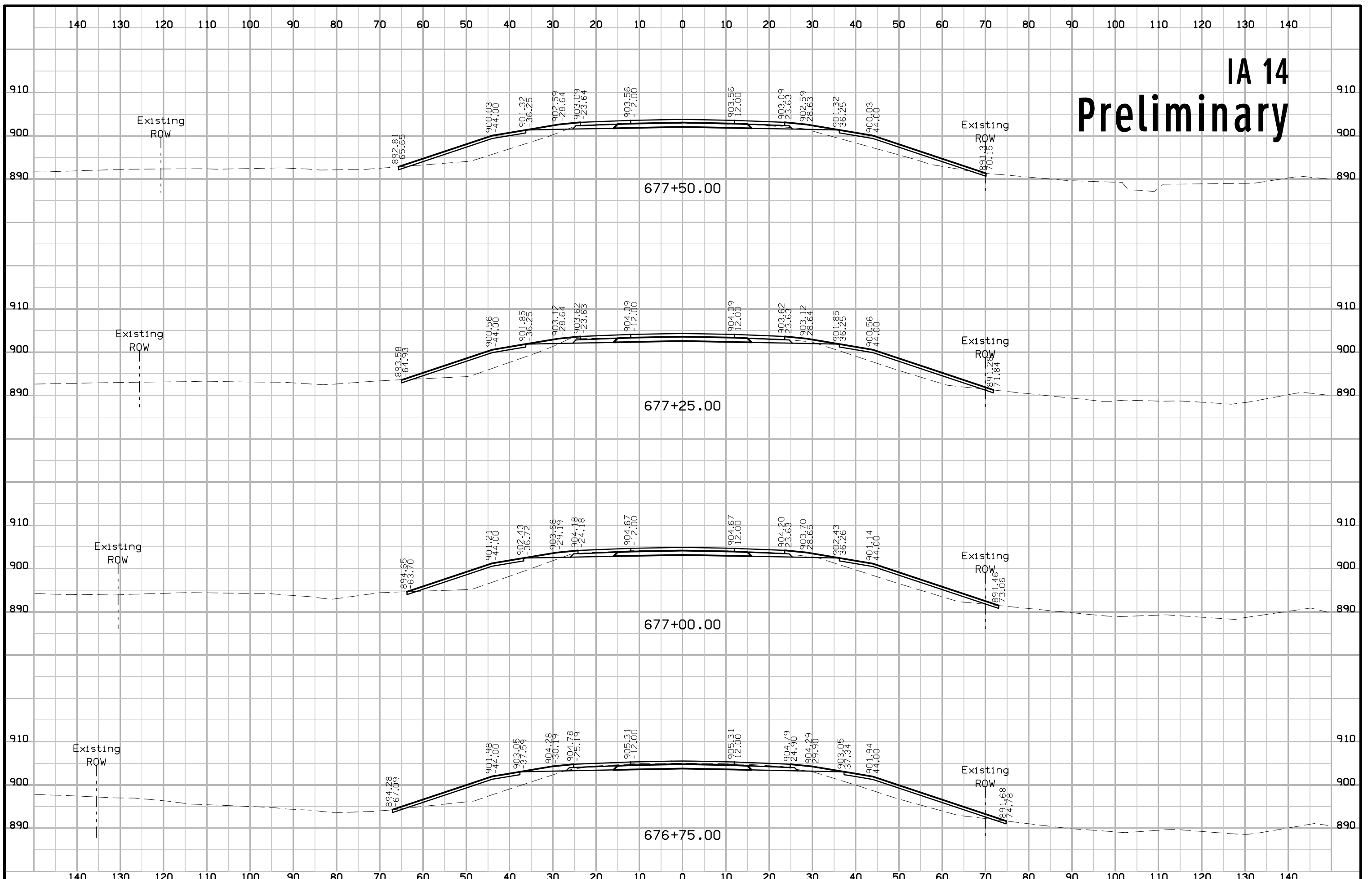
JASPER COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. 2 OF 2 FILE NO. 31710 DESIGN NO. 123

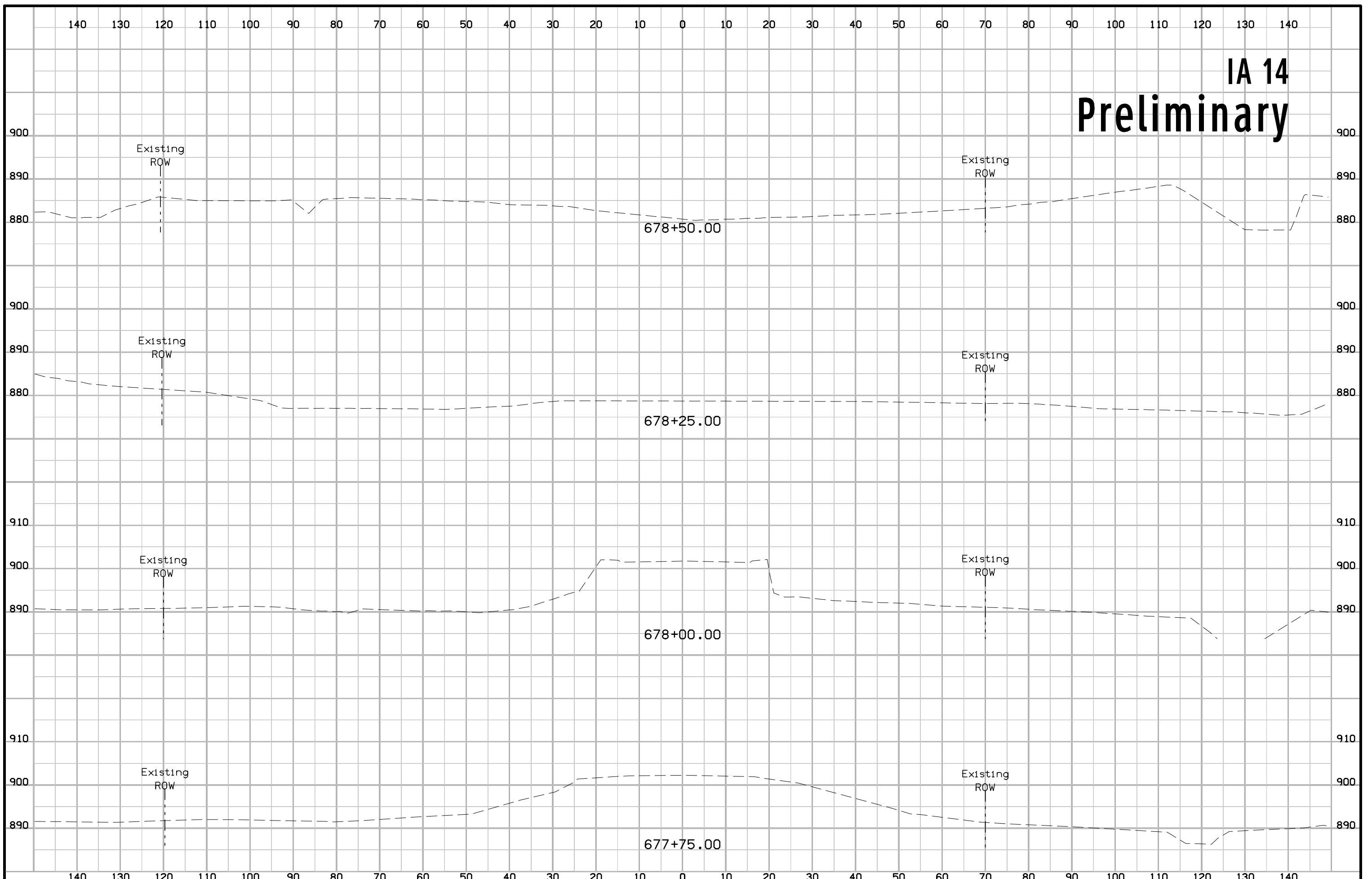
IA 14 Preliminary



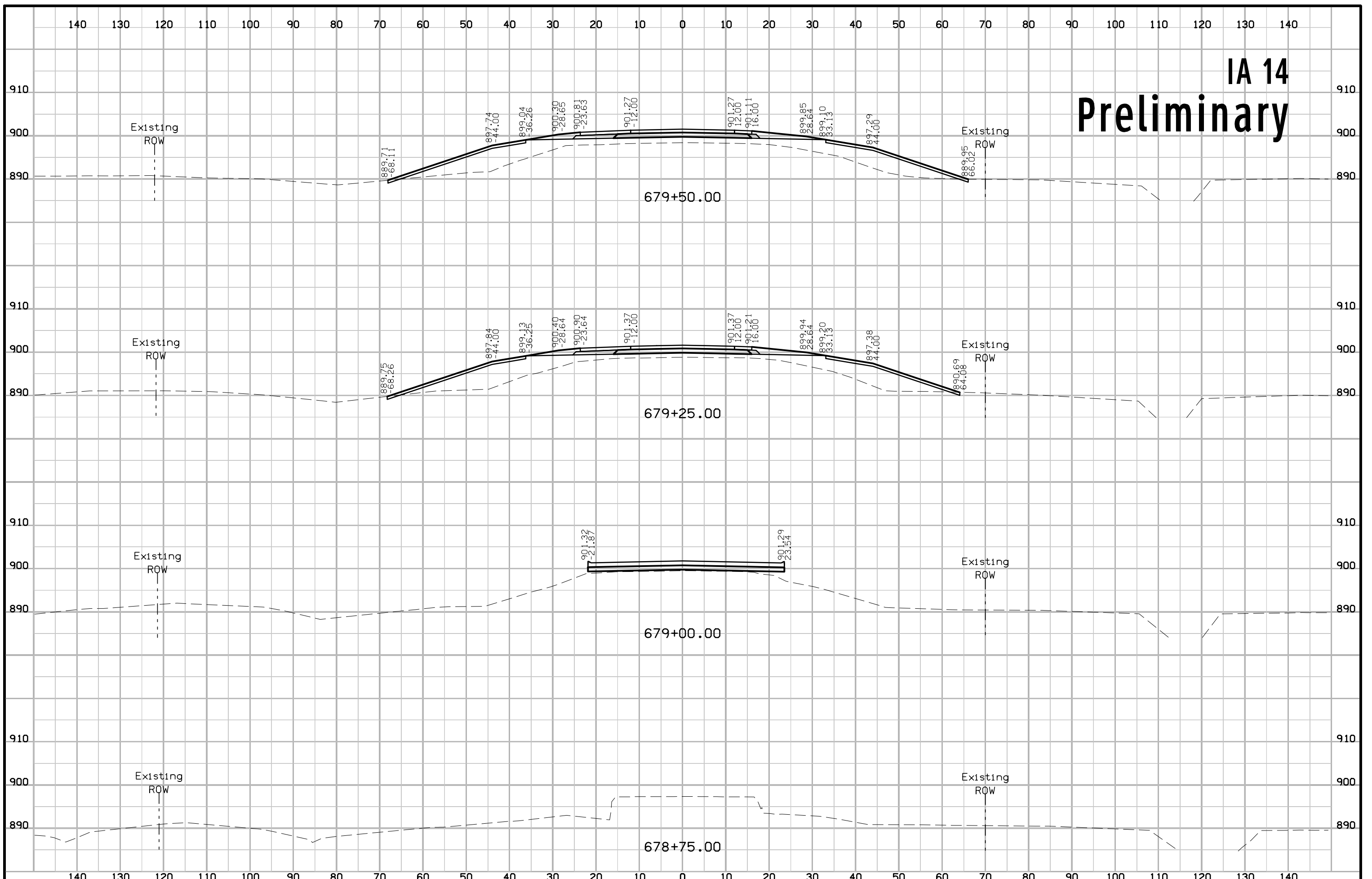
IA 14 Preliminary



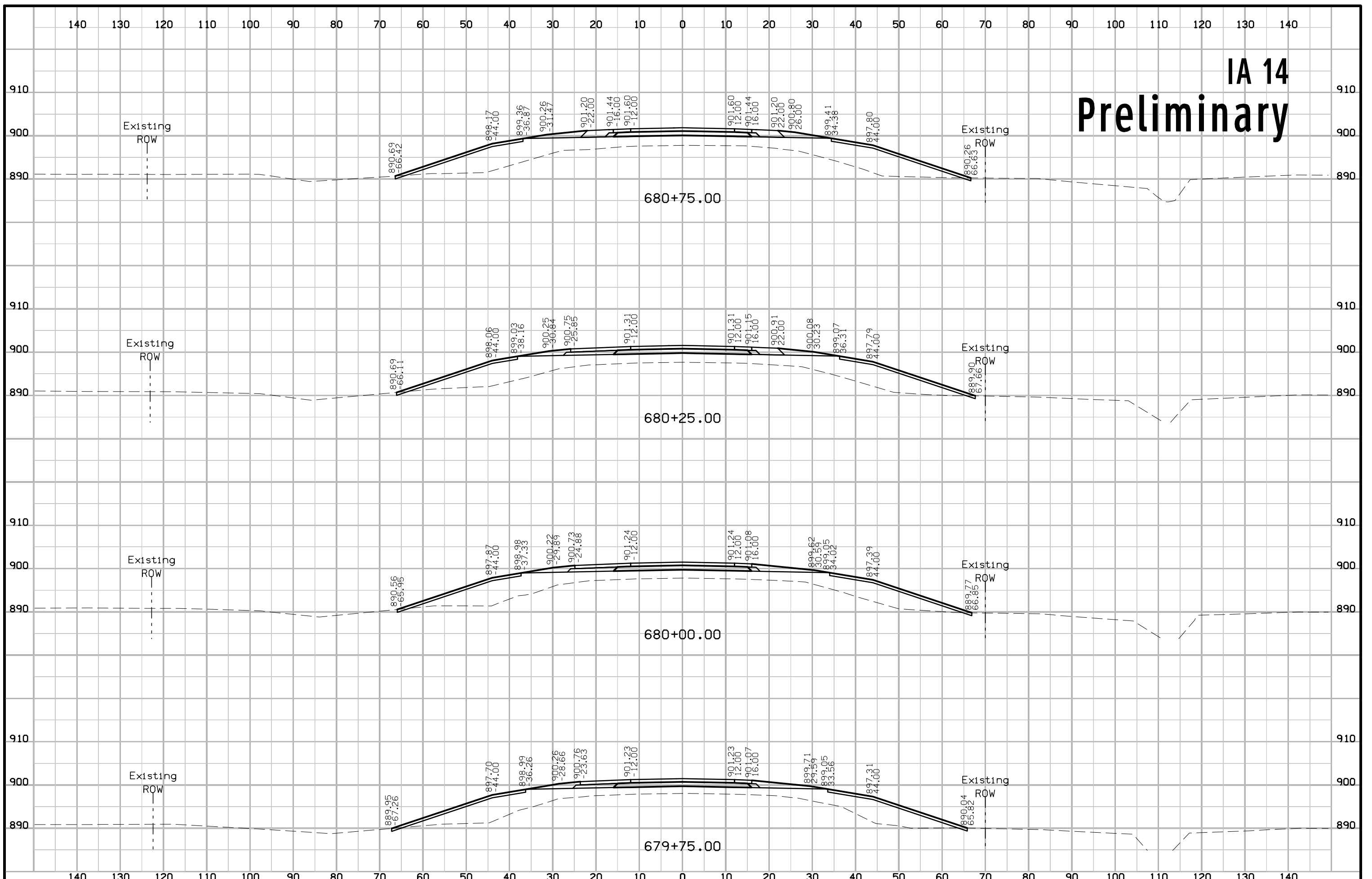
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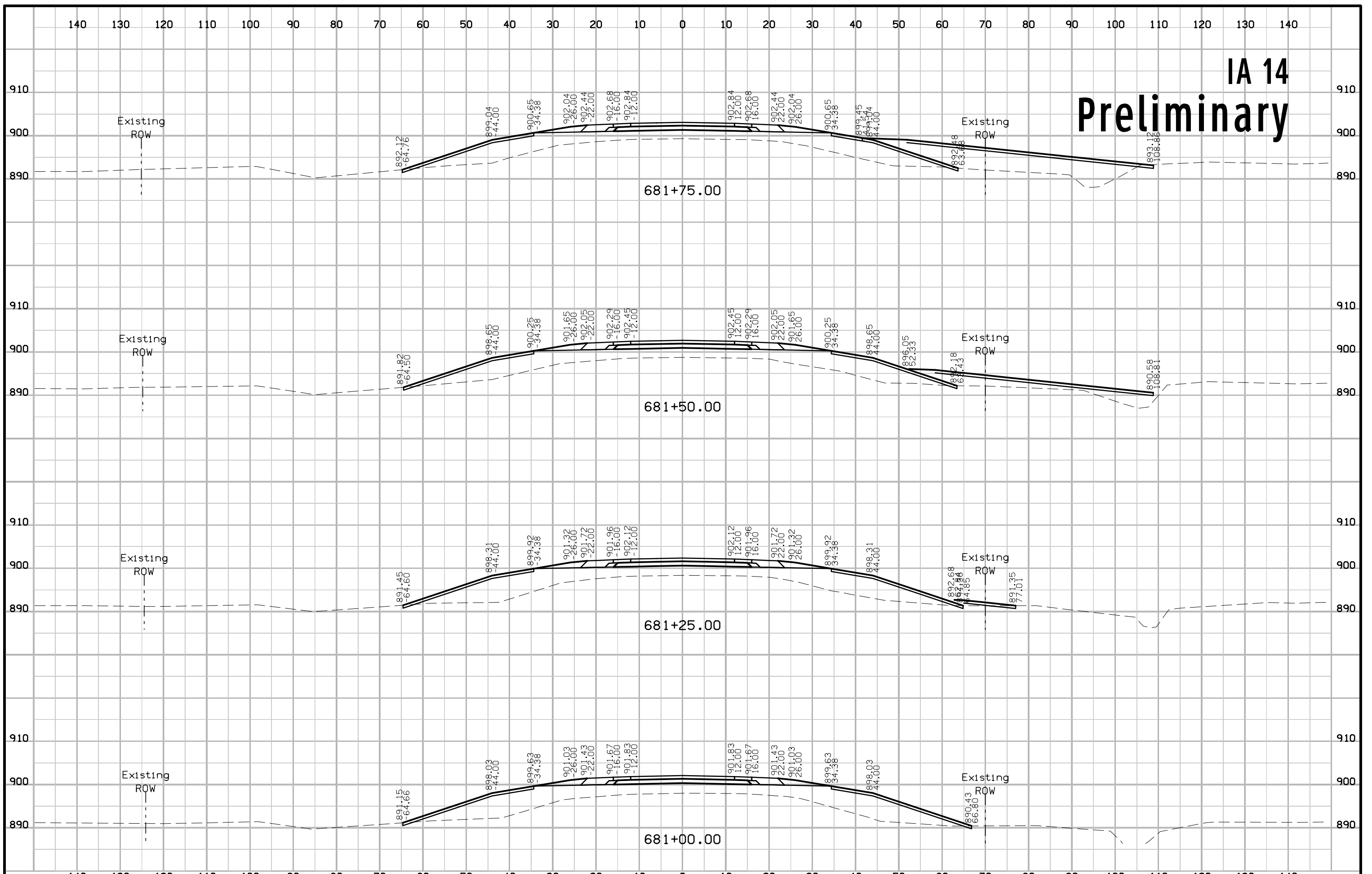
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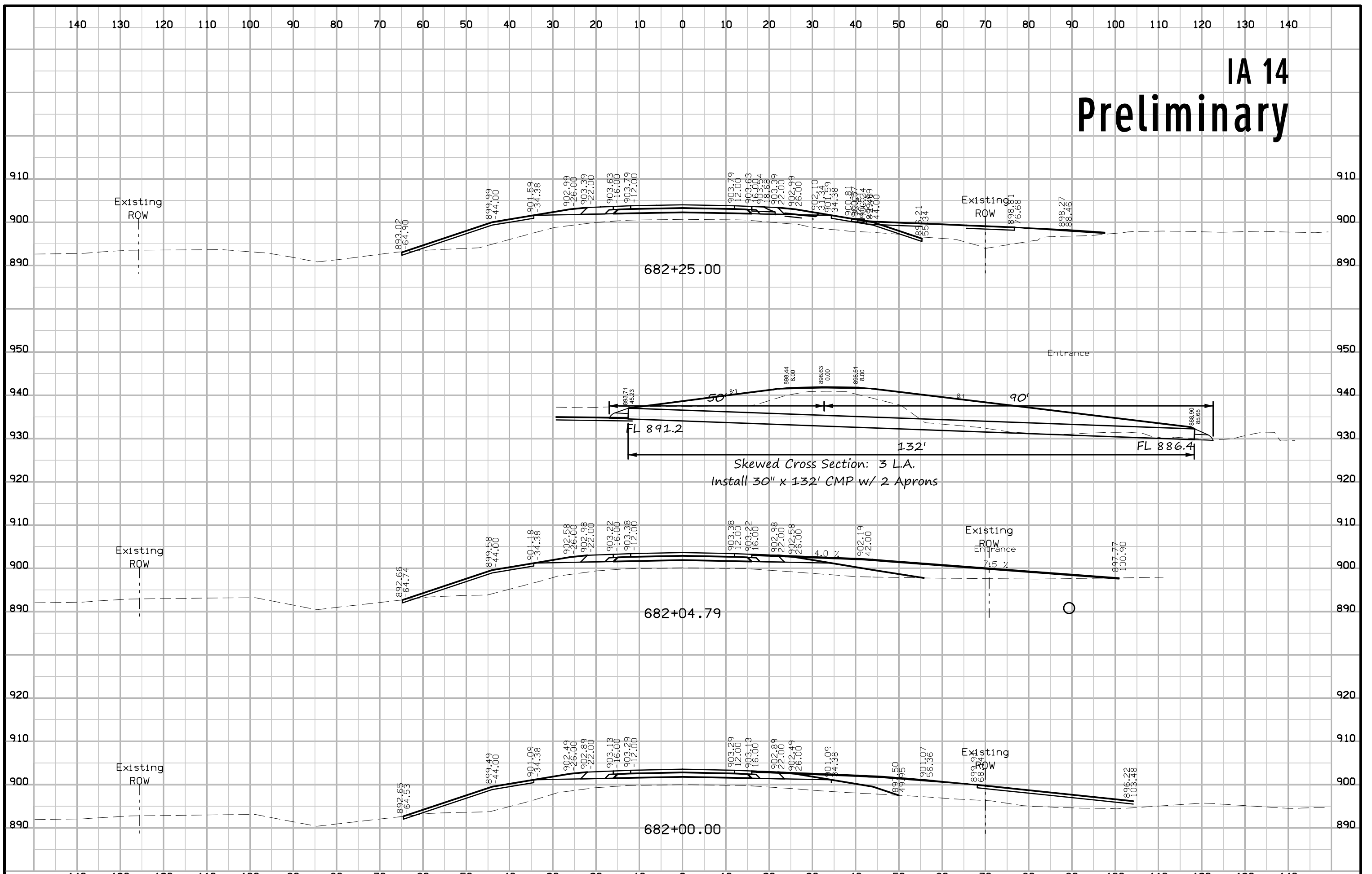
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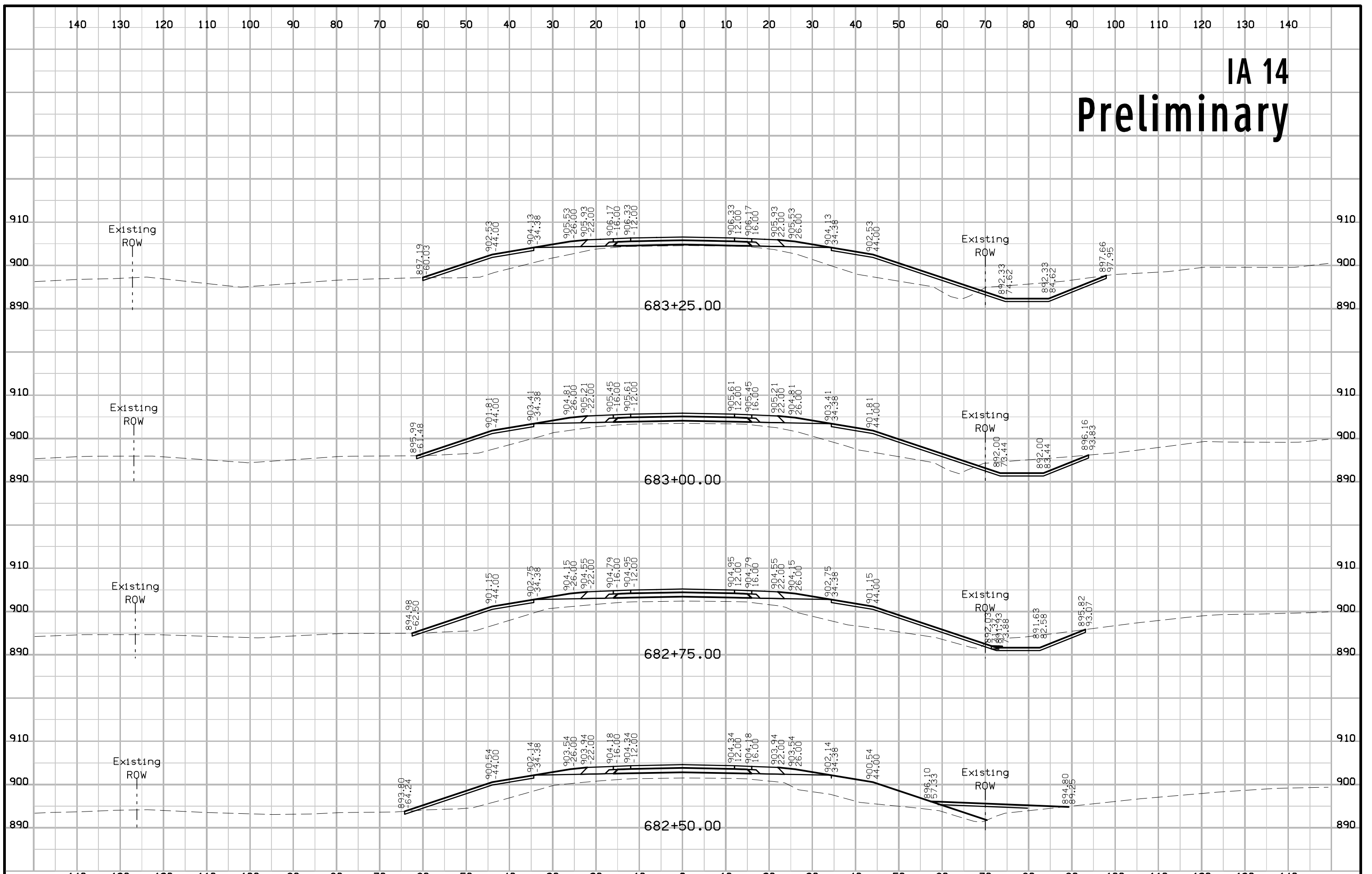
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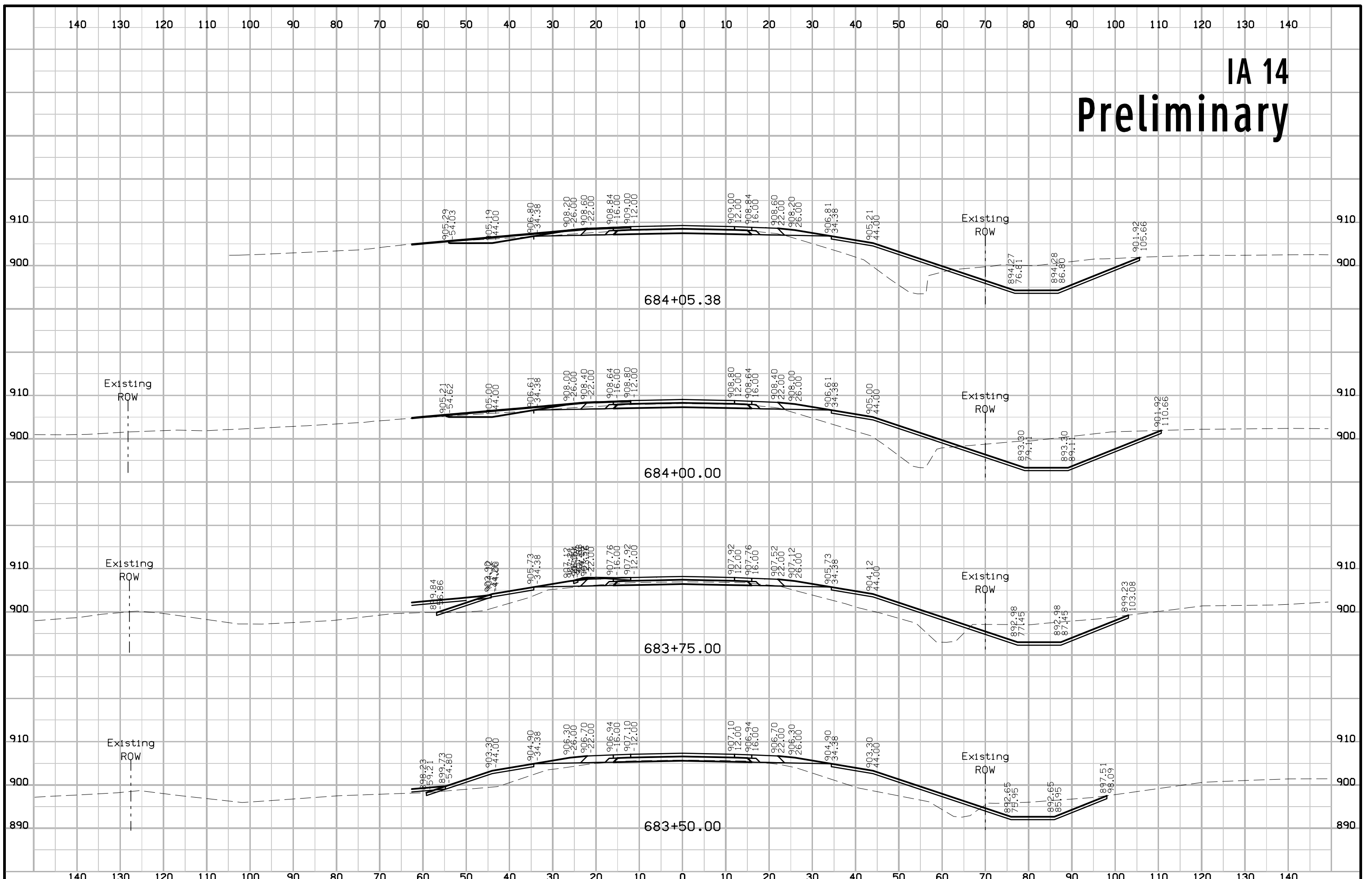
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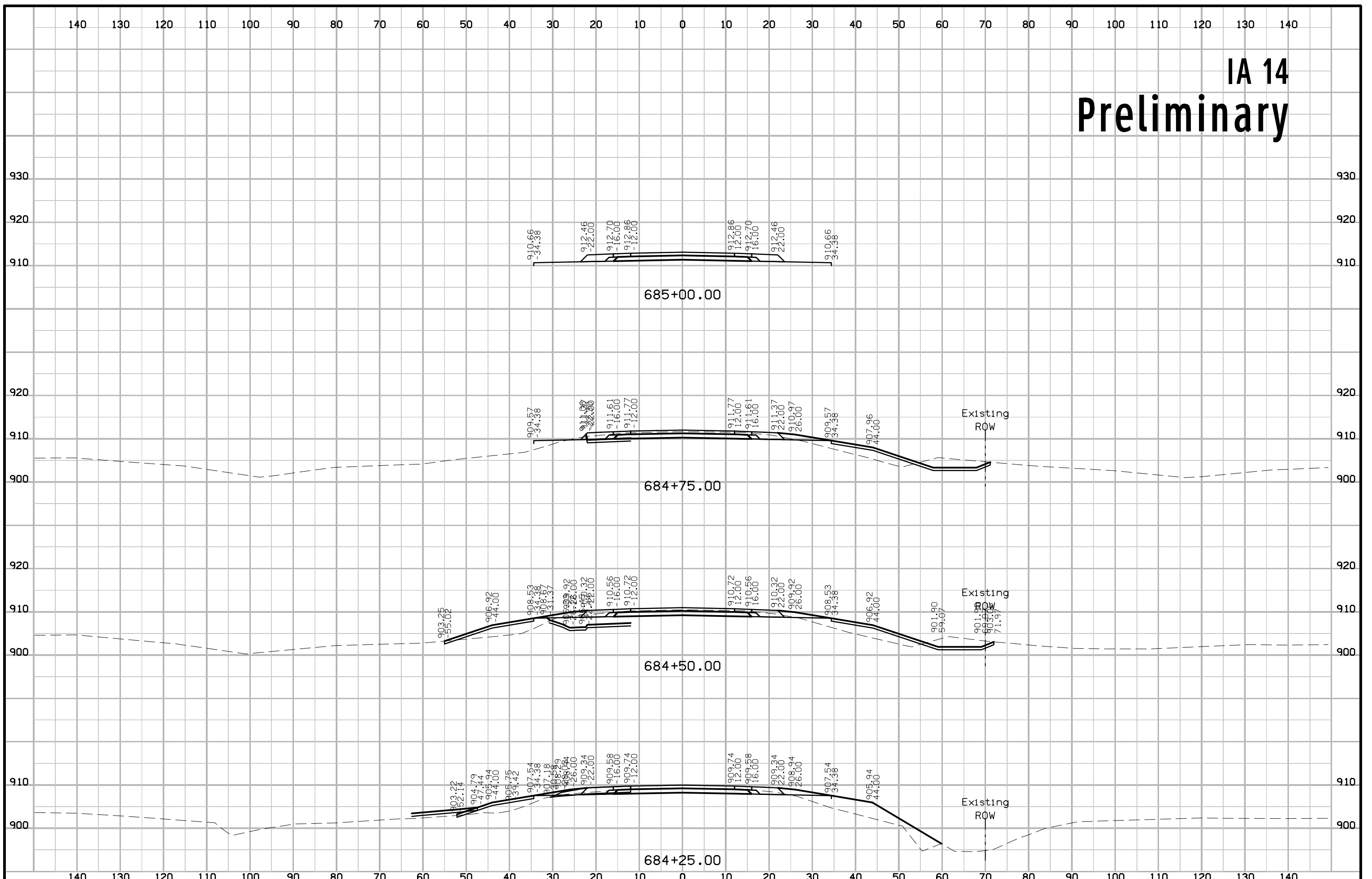
IA 14 Preliminary



IA 14 Preliminary



IA 14 Preliminary



IA 14 Preliminary

