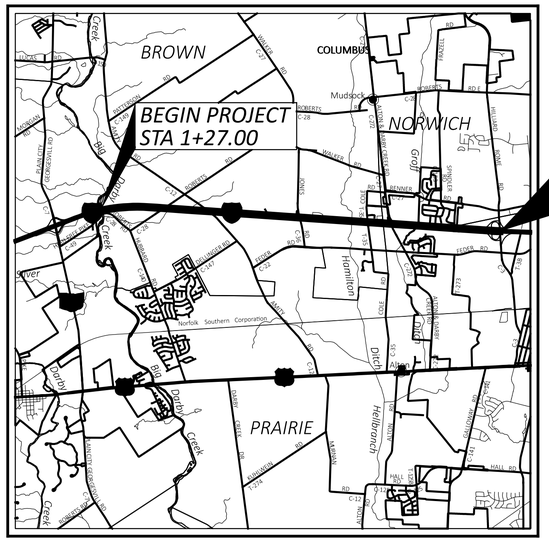
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
FRA-70-00.00

CITY OF COLUMBUS
BROWN TOWNSHIP
NORWICH TOWNSHIP
PRAIRIE TOWNSHIP
FRANKLIN COUNTY
(MADISON COUNTY)



LOCATION MAP

LATITUDE: 39°58'46" LONGITUDE: 83°11'59"

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

	IR 70	RAMP A	RAMP E
CURRENT ADT (2026)	77,208	4,127	4,237
DESIGN YEAR ADT (2046)	124,068	5,343	4,917
DESIGN HOURLY VOLUME (2046)	11,166	472	432
DIRECTIONAL DISTRIBUTION	52%	100%	100%
TRUCKS (24 HOUR B&C)	28%	15%	14%
DESIGN SPEED	75 MPH	55 MPH	55 MPH
LEGAL SPEED	70 MPH	N/A	N/A
DESIGN FUNCTIONAL CLASSIFICATION:	01 INTERSTATE (URBAN)	01 INTERSTATE (URBAN)	01 INTERSTATE (URBAN)
NHS PROJECT	YES		

DESIGN EXCEPTIONS

APPROVAL DATE
6/11/2024

SUPERELEVATION RATE — SHEET NUMBER P.2, P.3, P.5

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

AMERICAN STRUCTUREPOINT INC.
2550 CORPORATE EXCHANGE DR, STE 300
COLUMBUS, OH 43231
TEL 614.901.2235 FAX 614.901.2236
www.structurepoint.com

ENGINEER'S SEAL
BRIDGE
STATE OF OHIO · SAGE J. FLANNAGAN E-71958 · REGISTERED PROFESSIONAL ENGINEER
Sage Flannagan — Digitally signed by Sage Flannagan DN: C=US, E=sflannagan@structurepoint.com, O=American Structurepoint, Inc., OU=Bridge Group, CN=Sage Flannagan Date: 2025.02.21 13:46:46-05'00'

ENGINEER'S SEAL
ROADWAY
STATE OF OHIO · ALEXANDER R. MERRILL E-84527 · REGISTERED PROFESSIONAL ENGINEER
Alexander Merrill — Digitally signed by Alexander Merrill DN: C=US, E=amerrill@structurepoint.com, CN=Alexander Merrill Date: 2025.02.21 13:12:28-05'00'

STANDARD CONSTRUCTION DRAWINGS

										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-2.1	1/21/22	MGS-1.1	7/16/21	AS-2-15	7/21/23	MT-95.71	7/21/23	TC-21.11	7/16/21	800-2023	7/19/24	
BP-2.2	1/15/21	MGS-2.1	1/19/18	CPA-1-08	1/19/24	MT-95.73	7/19/24	TC-21.50	4/17/20	807	1/21/22	
BP-2.3	7/18/14	MGS-3.1	1/19/18			MT-98.11	1/17/20	TC-22.10	4/21/23	808	7/19/24	
BP-3.1	1/19/24	MGS-3.2	1/18/13	HL-10.13	1/20/23	MT-98.20	4/19/19	TC-22.20	1/17/14	821	4/20/12	
BP-6.1	7/19/13	MGS-4.2	7/19/13	HL-10.31	7/15/22	MT-98.21	7/21/23	TC-41.10	7/19/13	829	1/20/17	
BP-9.1	1/18/19	MGS-6.1	1/19/18	HL-20.21	1/15/21	MT-98.22	1/17/20	TC-41.20	10/18/13	832	7/19/24	
				HL-30.22	1/15/21	MT-98.28	1/17/20	TC-41.30	4/21/23	848	7/19/24	
CB-2-2A, 2B, 2C	7/19/24	MH-3	7/19/24	HL-40.10	7/19/24	MT-98.30	7/16/21	TC-42.10	10/18/13	850	7/21/23	
CB-4	7/19/24			HL-50.21	7/15/22	MT-100.00	1/19/24	TC-42.20	10/18/13	878	1/21/22	
		RM-4.1	1/17/20	HL-60.21	7/20/18	MT-101.60	4/21/23	TC-51.11	1/15/16	896	7/21/17	
DM-1.1	7/17/20	RM-4.2	4/17/20	HL-60.31	7/19/24	MT-101.70	7/19/24	TC-52.10	10/18/13	905	4/17/20	
DM-1.2	7/16/21	RM-4.4	7/19/24	MT-95.30	7/19/19	MT-101.75	7/21/23	TC-52.20	1/15/21	908	10/20/17	
		RM-4.5	7/21/17	MT-95.40	7/21/23	MT-101.80	1/17/20	TC-64.10	7/21/23	921	7/19/24	
F-2.1	7/20/18	RM-4.6	7/19/13	MT-95.45	7/21/23	MT-104.10	1/19/24	TC-65.10	1/17/14	929	7/21/23	
F-3.3	7/19/13			MT-95.50	7/21/17	MT-105.10	1/17/20	TC-65.11	1/19/24			
		AS-1-15	1/20/23	MT-95.70	7/21/23	TC-15.116	1/19/24	TC-72.20	7/21/23			

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FEDERAL PROJECT NUMBER

E 230 (571)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

PROJECT CONSISTS OF THE IMPROVEMENT OF 6.1 MILES OF I.R. 70, STARTING AFTER THE BIG DARBY CREEK BRIDGE, GOING TO AND INCLUDING PART OF THE HILLIARD ROME ROAD INTERCHANGE. PROJECT INCLUDES FULL DEPTH PAVEMENT REPLACEMENT FOR EASTBOUND AND WESTBOUND I-70 AND RAMPS A AND E FOR THE HILLIARD-ROME INTERCHANGE, SUBGRADE STABILIZATION, BRIDGE REHABILITATION, DRAINAGE UPGRADES, MINOR LIGHTING REPLACEMENT, AND TRAFFIC CONTROL UPGRADES.

TOTAL EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	124.25 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	1.00 ACRE
NOTICE OF INTENT EARTH DISTURBED AREA:	125.25 ACRES

CITY OF COLUMBUS AREAS

COLUMBUS EARTH DISTURBED AREA:	14.94 ACRES
COLUMBUS DISTURBED IMPERVIOUS AREA:	8.61 ACRES
COLUMBUS PRE - IMPERVIOUS AREA:	8.61 ACRES
COLUMBUS POST - IMPERVIOUS AREA:	9.31 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

FEMA NOTE

THIS SITE IS LOCATED WITHIN FLOOD INSURANCE RATE MAP (FIRM) PANELS 39097C0175D EFFECTIVE 6/18/2010, 39049C0276K EFFECTIVE 6/17/2008, 39049C0277K EFFECTIVE 6/17/2008, 39049C0281K EFFECTIVE 6/17/2008, AND 39049C0282K EFFECTIVE 6/17/2008.

BIG DARBY CREEK IS LOCATED WITHIN FLOOD ZONES AE AND X. BASE FLOOD ELEVATION (BFE) IS 877.0'. HAMILTON DITCH IS LOCATED WITHIN FLOOD ZONES AE AND X. BASE FLOOD ELEVATION (BFE) IS 921.0'. CLOVER GROFF DITCH IS LOCATED WITHIN FLOOD ZONES AE AND X. BASE FLOOD ELEVATION IS 928.0'.

NO FILL IS TO BE ADDED IN THE 100-YEAR FLOODPLAIN FOR THIS PROJECT SITE.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEET P.22, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Anthony C. Turowski, P.E.
District 06 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.1 TOTAL 577

FRA-70-00.00

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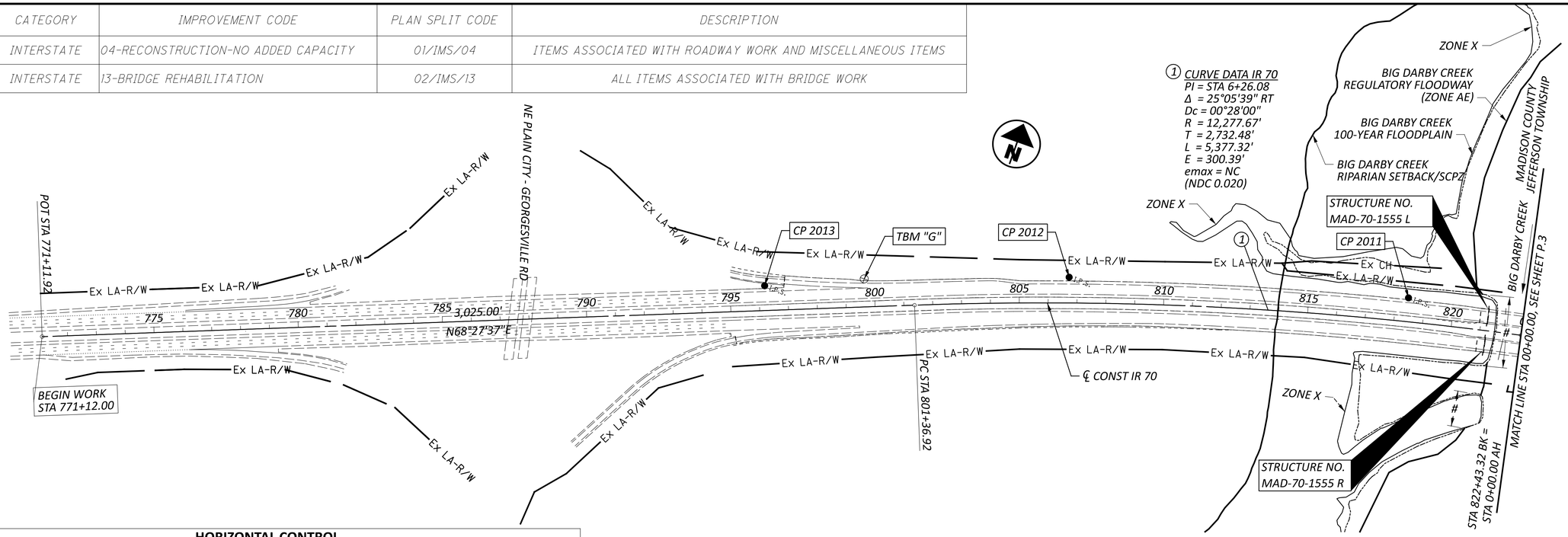
SPLIT #	CATEGORY	IMPROVEMENT CODE	PLAN SPLIT CODE	DESCRIPTION
1	INTERSTATE	04-RECONSTRUCTION-NO ADDED CAPACITY	01/IMS/04	ITEMS ASSOCIATED WITH ROADWAY WORK AND MISCELLANEOUS ITEMS
2	INTERSTATE	13-BRIDGE REHABILITATION	02/IMS/13	ALL ITEMS ASSOCIATED WITH BRIDGE WORK



- REGULATORY FLOODWAY AND 100-YEAR FLOODPLAIN OVERLAP

HORIZONTAL CONTROL				
C.P.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
2000	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 55-07	574563.977	151609.687	919.763
2001	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 56-07	574592.010	150886.140	923.701
2002	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 57-07	574876.333	145285.903	930.951
2003	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 58-07	574916.996	144598.753	928.932
2004	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 59-07	575243.546	139456.303	922.051
2005	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 60-07	575301.364	138560.005	927.081
2006	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 61-07	575591.406	133747.950	935.872
2007	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 62-07	575626.760	133156.212	934.502
2008	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 63-07	575940.076	128219.891	915.877
2009	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 64-07	575981.490	127452.835	914.089
2010	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 65-07	576023.093	123054.414	896.853
2011	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 66-07	575778.653	121800.635	895.266
2012	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 67-07	575454.097	120668.140	897.680
2013	3/4" REBAR WITH ALUM. ODOT CAP STAMPED 68-07	575074.648	119683.091	902.401

PROJECT CONTROL	
Positioning Method	VRS SURVEY
Monument Type	Type B

VERTICAL POSITIONING	
Orthometric Height Datum	NAVD 88
Geoid	GEOID 18

HORIZONTAL POSITIONING	
Reference Frame	NAD 83 (2011)
Ellipsoid	GRS80
Map Projection	TRANSVERSE MERCATOR
Coordinate System	FRANKLIN COUNTY - OHIO COUNTY COORDINATE
Combined Scale Factor	1.000000000
Orgin of Coord. System	(0,0)

PROJECT BENCHMARKS		
T.B.M.	DESCRIPTION	ELEVATION
A	Chiseled square on the S/W corner of the concrete base of the East leg of an overhead sign 1165' +/- east of Hilliard-Rome RD on the north side of I-70.	924.728
B	Chiseled square on top of the northeast wingwall of the I-70 westbound bridge #FRA-70-0417L 2000' +/- East of the Alton Darby Creek RD overpass on the northside of I-70.	928.932
C	Chiseled square on top of the northwest wingwall of the I-70 westbound bridge #FRA-70-0329L 2750' +/- west of the Alton Darby Creek RD overpass on the northside of I-70	924.063
D	Mag nail set in the top of the north end of a box culvert going under I-70 2680' +/- west of the Jones RD overpass on the north side of I-70	931.203
E	Mag nail set in the southside of a concrete pad for a traffic MH on the north side of I-70 240' +/- east of the Roberts RD overpass.	911.576
F	F.C.E BM Disk KK-18 set in the top of the southeast abutment of the I-70 eastbound bridge over Big Darby Creek 0.70 miles east of the SR 142 overpass.	897.288
G	Chiseled square on the southeast corner of a concrete base for cantilever sign at exit #85 for SR 142 on the northside of I-70 1170' +/- east of SR 142	901.127
H	Chiseled square on the top of the northeast corner of the concrete crash wall under the Roberts RD overpass on I-70 Eastbound.	914.557

PROJECT BENCHMARKS		
T.B.M.	DESCRIPTION	ELEVATION
I	Mag nail set in the concrete base of the north leg for the Ohio Expo Center/State Fair sign on I-70 eastbound 1375'+/- west of the Amity RD overpass	917.143
J	Chiseled square on the top of the northeast corner of the concrete crash wall under the Amity RD overpass on I-70 Eastbound.	926.372
K	Mag Spike set in an 8" wood R/W fence post on the southside of I-70 2320'+/- East of Amity RD overpass	930.573
L	Chiseled square on the top of the southeast corner of the concrete crash wall under the Jones RD overpass on I-70 Eastbound.	941.457
M	Chiseled square on top of the southeast wingwall of the I-70 Eastbound bridge #FRA-70-0329R 1140 +/- west of Cole RD.	924.036
N	Chiseled square on the top of the northeast corner of the concrete crash wall under the Alton Darby Creek RD overpass on I-70 Eastbound	934.344
O	Chiseled square on top of the southeast wingwall of the I-70 Eastbound bridge #FRA-70-0417R 1880' +/- East of the Alton Darby Creek RD overpass on the southside of I-70	928.800
P	Chiseled square on the northwest corner of the concrete base for the west leg of the overhead exit sign (exit 91) 1550'+/- west of Hilliard-Rome RD on the southside of I-70	938.727

HORIZONTAL SCALE IN FEET
0 100 200 400

SCHEMATIC PLAN
STA 772+50.00 TO STA 00+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.2
TOTAL	577

FRA-70-00.00

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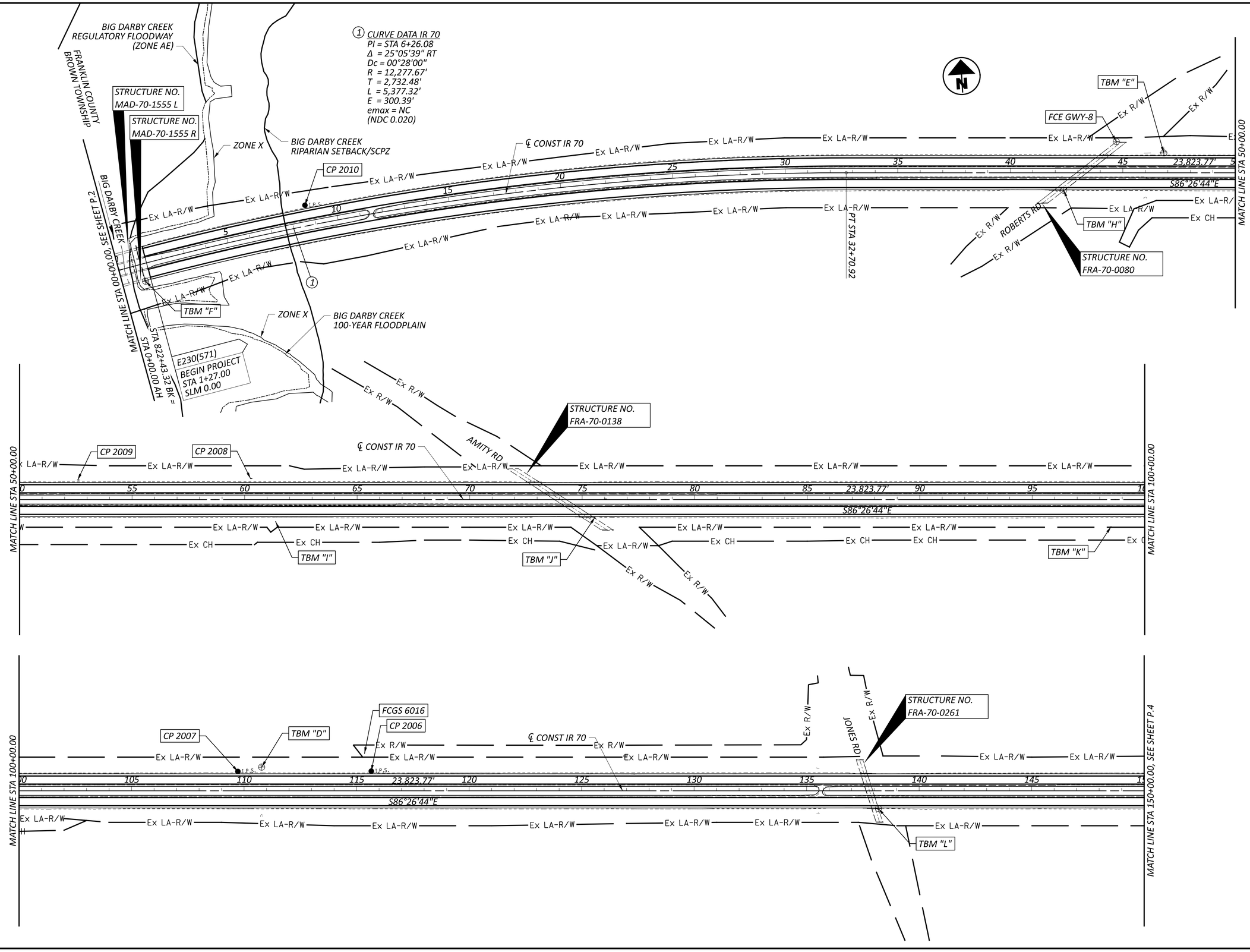

HORIZONTAL SCALE IN FEET
0 100 200 400

SCHEMATIC PLAN
STA. 00+00.00 TO STA. 150+00.00

FRA-70-00.00

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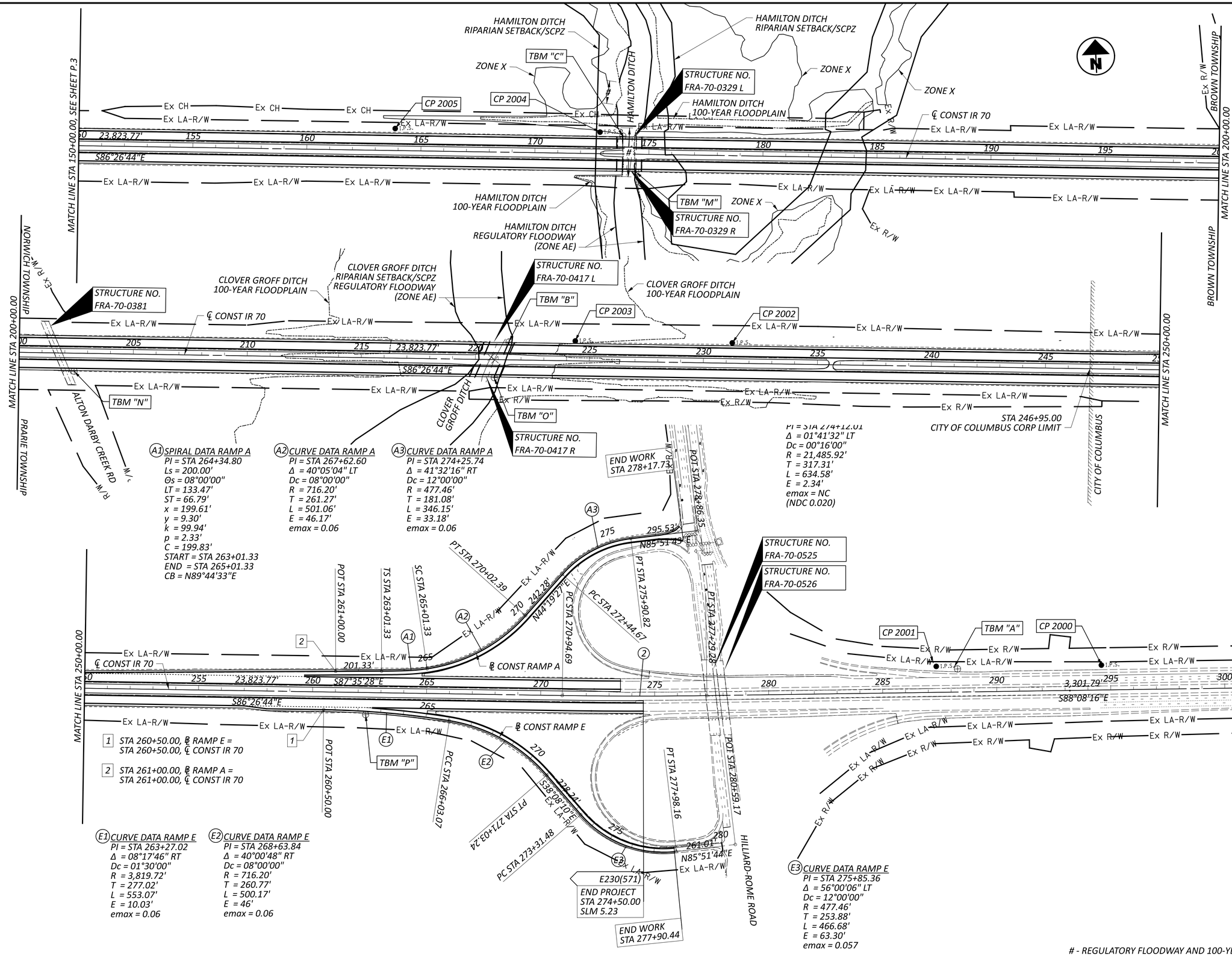
DESIGN AGENCY
STRUCTUREPOINT INC.
DESIGNER
DMS
REVIEWER
AJL 08/23/24
PROJECT ID
116949
SHEET P.3
TOTAL 577



SCHEMATIC PLAN
STA. 150+00.00 TO STA. 304+50.00

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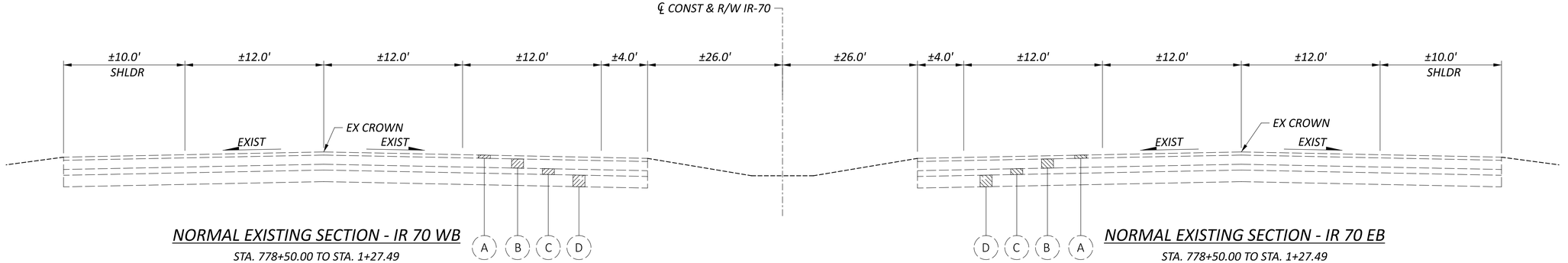
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.4
TOTAL	577

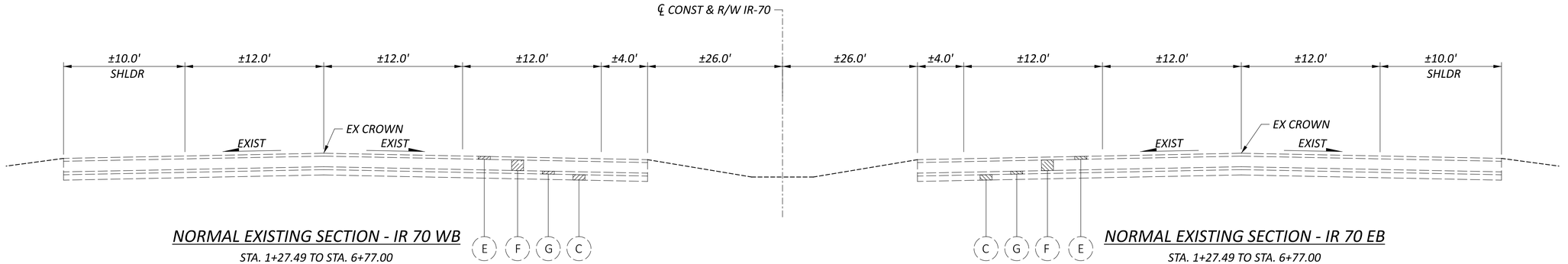


NORMAL EXISTING SECTION - IR 70 WB

STA. 778+50.00 TO STA. 1+27.49

NORMAL EXISTING SECTION - IR 70 EB

STA. 778+50.00 TO STA. 1+27.49



NORMAL EXISTING SECTION - IR 70 WB

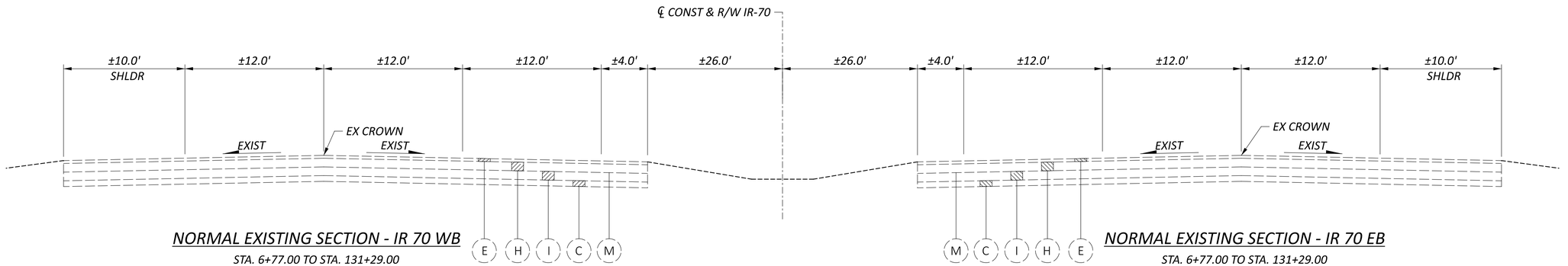
STA. 1+27.49 TO STA. 6+77.00

STA. 131+29.00 TO STA. 144+29.00

NORMAL EXISTING SECTION - IR 70 EB

STA. 1+27.49 TO STA. 6+77.00

STA. 131+29.00 TO STA. 144+29.00



NORMAL EXISTING SECTION - IR 70 WB

STA. 168+09.00 TO STA 173+59.00

STA. 174+69.00 TO STA. 180+00.00

NORMAL EXISTING SECTION - IR 70 EB

STA. 168+09.00 TO STA 173+59.00

STA. 174+69.00 TO STA. 180+00.00

NORMAL EXISTING SECTION - IR 70 WB

STA. 6+77.00 TO STA. 131+29.00

STA. 144+29.00 TO STA 168+09.00

NORMAL EXISTING SECTION - IR 70 EB

STA. 6+77.00 TO STA. 131+29.00

STA. 144+29.00 TO STA 168+09.00

- (A) EXISTING 3.25"± ASPHALT PAVEMENT
- (B) EXISTING 9.5"± ASPHALT CONCRETE BASE
- (C) EXISTING 6"± AGGREGATE BASE
- (D) EXISTING 12"± CEMENT STABILIZED SUBGRADE
- (E) EXISTING 3"± ASPHALT PAVEMENT
- (F) EXISTING 11"± PORTLAND CEMENT CONCRETE BASE
- (G) EXISTING 3"± BITUMINOUS AGGREGATE BASE
- (H) EXISTING 9"± PORTLAND CEMENT CONCRETE BASE
- (I) EXISTING 9"± CONCRETE BASE
- (J) EXISTING 4.75"± ASPHALT PAVEMENT
- (K) EXISTING 12"± ASPHALT CONCRETE BASE
- (L) EXISTING REINFORCED CONCRETE APPROACH SLAB
- (M) EXISTING 1/4" SLURRY SEAL

TYPICAL SECTIONS

FRA-70-00.00

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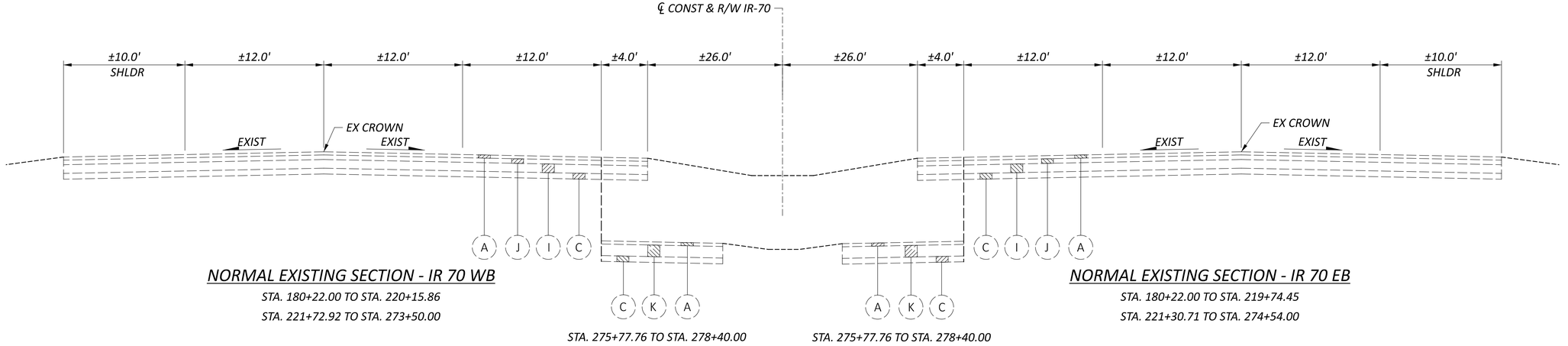
DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.5 TOTAL 577



NORMAL EXISTING SECTION - IR 70 WB

STA. 180+22.00 TO STA. 220+15.86

STA. 221+72.92 TO STA. 273+50.00

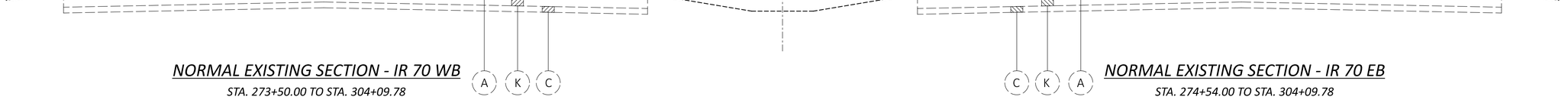
STA. 275+77.76 TO STA. 278+40.00

NORMAL EXISTING SECTION - IR 70 EB

STA. 180+22.00 TO STA. 219+74.45

STA. 221+30.71 TO STA. 274+54.00

STA. 275+77.76 TO STA. 278+40.00



NORMAL EXISTING SECTION - IR 70 WB

STA. 273+50.00 TO STA. 304+09.78

NORMAL EXISTING SECTION - IR 70 EB

STA. 274+54.00 TO STA. 304+09.78

(A) EXISTING 3.25"± ASPHALT PAVEMENT

(B) EXISTING 9.5"± ASPHALT CONCRETE BASE

(C) EXISTING 6"± AGGREGATE BASE

(D) EXISTING 12"± CEMENT STABILIZED SUBGRADE

(E) EXISTING 3"± ASPHALT PAVEMENT

(F) EXISTING 11"± PORTLAND CEMENT CONCRETE BASE

(G) EXISTING 3"± BITUMINOUS AGGREGATE BASE

(H) EXISTING 9"± PORTLAND CEMENT CONCRETE BASE

(I) EXISTING 9"± CONCRETE BASE

(J) EXISTING 4.75"± ASPHALT PAVEMENT

(K) EXISTING 12"± ASPHALT CONCRETE BASE

(L) EXISTING REINFORCED CONCRETE APPROACH SLAB

(M) EXISTING 1/4" SLURRY SEAL

TYPICAL SECTIONS

FRA-70-00.00

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 2:59:37 PM USER: AMerrill
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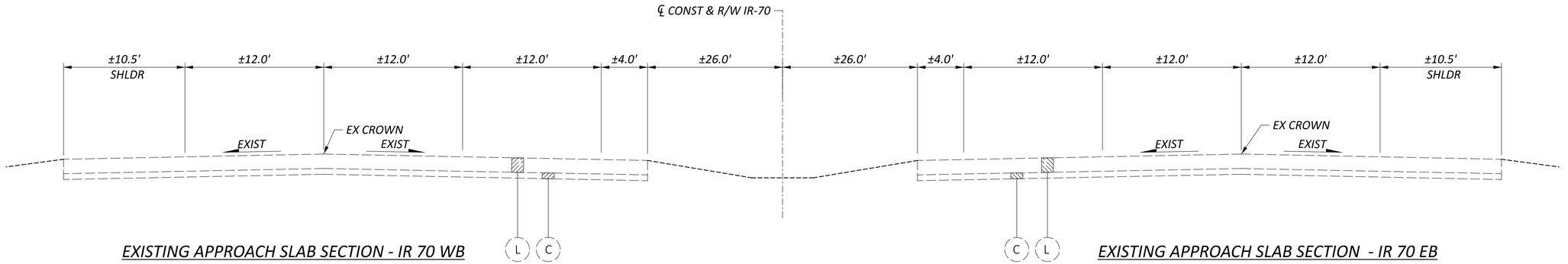
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.6 | TOTAL 577

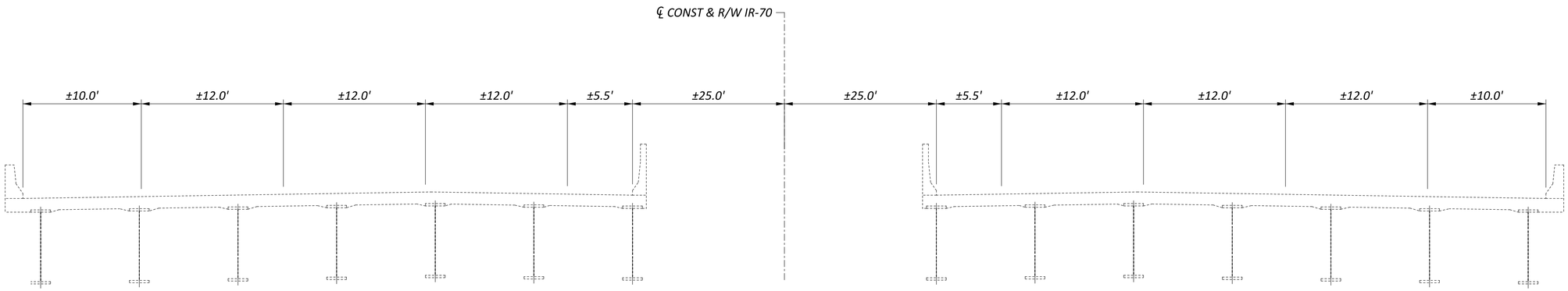


EXISTING APPROACH SLAB SECTION - IR 70 WB

STA. 820+96.20 TO STA. 821+20.23 (T= 15")
STA. 1+02.49 TO STA. 1+27.49 (T= 15")
STA. 173+59.00 TO STA. 173+84.78 (T= 15")
STA. 174+44.42 TO STA. 174+69.00 (T= 15")
STA. 220+15.86 TO STA. 220+60.42 (T= 15")
STA. 221+25.84 TO STA. 221+72.92 (T= 15")

EXISTING APPROACH SLAB SECTION - IR 70 EB

STA. 820+95.60 TO STA. 821+20.23 (T= 15")
STA. 1+02.49 TO STA. 1+27.49 (T= 15")
STA. 173+59.00 TO STA. 173+84.85 (T= 15")
STA. 174+44.42 TO STA. 174+69.00 (T= 15")
STA. 219+74.45 TO STA. 220+20.27 (T= 15")
STA. 220+85.91 TO STA. 221+30.71 (T= 15")



EXISTING BRIDGE SECTION - IR 70 WB

STA. 821+20.23 TO STA. 1+02.49
STA. 173+84.78 TO STA. 174+44.42
STA. 220+60.42 TO STA. 221+25.84

EXISTING BRIDGE SECTION - IR 70 EB

STA. 821+20.23 TO STA. 1+02.49
STA. 173+84.85 TO STA. 174+44.42
STA. 220+20.27 TO STA. 220+85.91

- (A) EXISTING 3.25"± ASPHALT PAVEMENT
- (B) EXISTING 9.5"± ASPHALT CONCRETE BASE
- (C) EXISTING 6"± AGGREGATE BASE
- (D) EXISTING 12"± CEMENT STABILIZED SUBGRADE
- (E) EXISTING 3"± ASPHALT PAVEMENT
- (F) EXISTING 11"± PORTLAND CEMENT CONCRETE BASE
- (G) EXISTING 3"± BITUMINOUS AGGREGATE BASE
- (H) EXISTING 9"± PORTLAND CEMENT CONCRETE BASE
- (I) EXISTING 9"± CONCRETE BASE
- (J) EXISTING 4.75"± ASPHALT PAVEMENT
- (K) EXISTING 12"± ASPHALT CONCRETE BASE
- (L) EXISTING REINFORCED CONCRETE APPROACH SLAB
- (M) EXISTING 1/4" SLURRY SEAL

TYPICAL SECTIONS

FRA-70-00.00

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 2:59:37 PM USER: AMerrill
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DESIGN AGENCY
MERLIN STRUCTUREPOINT INC.
DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.7 TOTAL 577

Shot:	X-001-0-23	
Location:	WB Shoulder	
	STA. 1+41	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	5.5	
2		9
3	2.5	
4		
Rebar Encounter	N/E	

Shot:	X-002-0-23	
Location:	EB Travel Lane	
	STA. 17+23	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	3.5	
2		10.5
3		9
4		
Rebar Encounter	N/E	

Shot:	X-003-0-23	
Location:	WB Travel Lane	
	STA. 29+27	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	2.75	
2		8.25
3		9.5
4		
Rebar Encounter	1.0" form stake @ 17" #2 rebar @ 20.25"	

Shot:	X-004-0-23	
Location:	EB Shoulder	
	STA. 37+20	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	2.5	
2		9
3	0.5	
4	4	
Rebar Encounter	N/E	

Shot:	X-005-0-23	
Location:	WB Shoulder	
	STA. 48+99	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	5	
2		9
3	4.5	
4		
Rebar Encounter	N/E	

Shot:	X-006-0-23	
Location:	EB Travel Lane	
	STA. 64+98	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	3.25	
2		9.25
3		9
4		
Rebar Encounter	#2 rebar @ 16.75"	

Shot:	X-007-0-23	
Location:	WB Shoulder	
	STA. 76+67	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	2.75	
2		9
3	0.25	
4		9
Rebar Encounter	#2 rebar @ 16"	

Shot:	X-008-0-23	
Location:	EB Shoulder	
	STA. 84+52	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	3.5	
2		9
3	3.5	
4		
Rebar Encounter	N/E	

Shot:	X-009-0-23	
Location:	WB Shoulder	
	STA. 96+38	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	3.75	
2		8.75
3	1	
4	3.5	
Rebar Encounter	N/E	

Shot:	X-010-0-23	
Location:	EB Travel Lane	
	STA. 112+56	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	3.5	
2		9.25
3	0.25	
4		9
Rebar Encounter	#2 rebar @ 17"	

Shot:	X-011-0-23	
Location:	WB Travel Lane	
	STA. 124+46	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	4	
2		9
3	0.25	
4		8.75
Rebar Encounter	N/E	

Shot:	X-012-0-23	
Location:	EB Shoulder	
	STA. 132+38	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	3	
2		10.75
3	3.25	
4		
Rebar Encounter		

Shot:	X-013-0-23	
Location:	WB Shoulder	
	STA. 144+10	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	4	
2		11.25
3	3	
4		
Rebar Encounter	N/E	

Shot:	X-014-0-23	
Location:	EB Travel Lane	
	STA. 160+55	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1		12.25
2		9
3		
4		
Rebar Encounter	N/E	

Shot:	X-015-0-23	
Location:	WB Travel Lane	
	STA. 172+13	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	2.5	
2		11.75
3	3.75	
4		
Rebar Encounter	N/E	

Shot:	X-016-0-23	
Location:	EB Shoulder	
	STA. 180+70	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	3.25	
2	5.5	
3	3.25	
4		
Rebar Encounter		

Shot:	X-017-0-23	
Location:	WB Shoulder	
	STA. 192+17	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	7.5	
2	2.5	
3	2.5	
4		
Rebar Encounter		

Shot:	X-018-0-23	
Location:	EB Travel Lane	
	STA. 207+83	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	3.5	
2	5	
3		9.5
4		
Rebar Encounter	#2 rebar @ 13"	

Shot:	X-019-0-23	
Location:	WB Travel Lane	
	STA. 219+91	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	1.75	
2	5	
3	9.25	
4		
Rebar Encounter		

Shot:	X-020-0-23	
Location:	EB Shoulder	
	STA. 227+04	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	6.5	
2	2	
3	4.5	
4		
Rebar Encounter		

Shot:	X-021-0-23	
Location:	WB Shoulder	
	STA. 239+78	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	7	
2	5	
3		
4		
Rebar Encounter		

Shot:	X-022-0-23	
Location:	EB Travel Lane	
	STA. 256+09	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	9	
2		9
3		
4		
Rebar Encounter	N/E	

Shot:	X-023-0-23	
Location:	WB Travel Lane	
	STA. 267+61	
Layers	Core Composition & Thickness (in)	
	Asphalt	Concrete
1	8	
2		9.25
3		
4		
Rebar Encounter	#2 rebar @ 12.5"	

DISCLAIMER: THE CORE PLAN IS NOT REPRESENTATIVE OF THE PAVEMENT MAKEUP FOR ALL PROJECT LOCATIONS.

TYPICAL SECTIONS

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.8 TOTAL 577

FRA-70-00.00

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 2:59:37 PM USER: AMerrill
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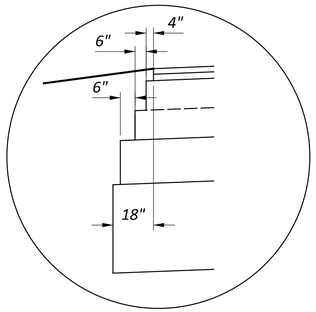
A *VARIES FROM 8.5' AT STA. 1+27.00 TO 10.0' AT STA. 1+64.30*
VARIES FROM 10.0' AT STA. 173+53.47 TO 9.0' AT STA. 173+58.47
VARIES FROM 9.0' AT STA. 174+68.31 TO 10.0' AT STA. 174+95.81
VARIES FROM 10.0' AT STA. 220+31.75 TO 9.0' AT STA. 220+18.50
VARIES FROM 9.0' AT STA. 221+66.17 TO 10.0' AT STA. 221+94.79

B *VARIES FROM 4.0' AT STA. 1+27.00 TO 10.0' AT STA. 2+76.63*
VARIES FROM 12.0' AT STA. 11+85.82 TO 10.0' AT STA. 12+35.70
VARIES FROM 12.0' AT STA. 135+98.82 TO 10.0' AT STA. 136+48.82
VARIES FROM 10.0' AT STA. 173+22.14 TO 5.0' AT STA. 173+47.14
VARIES FROM 5.0' AT STA. 174+70.81 TO 10.0' AT STA. 175+95.81
VARIES FROM 10.0' AT STA. 219+91.47 TO 5.0' AT STA. 220+18.50
VARIES FROM 5.0' AT STA. 221+66.17 TO 10.0' AT STA. 222+74.71
VARIES FROM 12.0' AT STA. 235+98.17 TO 10.0' AT STA. 236+48.17

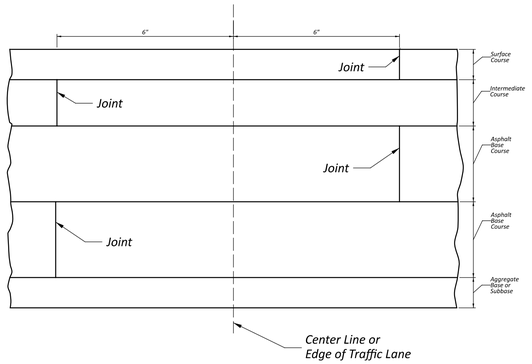
C *VARIES FROM 10.0' AT STA. 248+50.00 TO 8.0' AT STA. 249+50.00*
VARIES FROM 8.0' AT STA. 261+00.00 TO 6.0' AT STA. 261+50.03
6.0' FROM STA. 261+50.03 TO STA. 264+78.88

D *VARIES FROM 0.0' AT STA. 248+50.00 TO 16.0' AT STA. 259+64.31*

E *0.0' FROM STA. 248+50.00 TO STA. 259+64.31*
VARIES FROM 6.28' AT STA. 259+64.31 TO 23.0' AT STA. 264+78.88



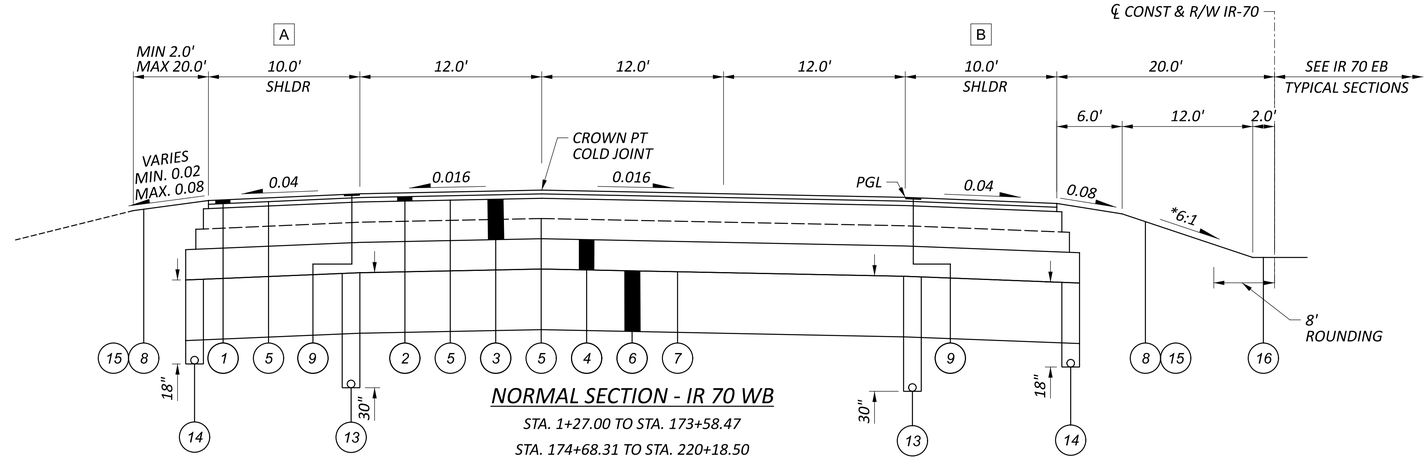
ASPHALT BASE AND SUBBASE STEP DETAIL



LAPPING LONGITUDINAL PHASE JOINT DETAIL

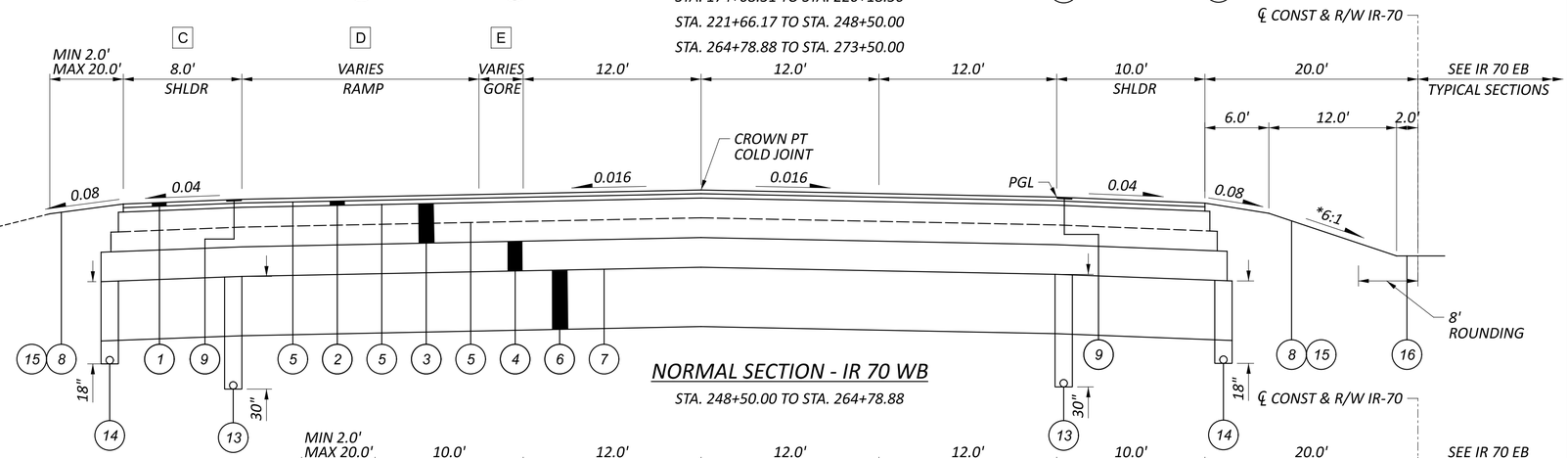
**10:1 SLOPE IN LOCATIONS WITH MGS GUARDRAIL TYPE B*

***EXISTING AGGREGATE BASE TO REMAIN AND BE INCORPORATED INTO THE PROPOSED STABILIZED SUBGRADE*



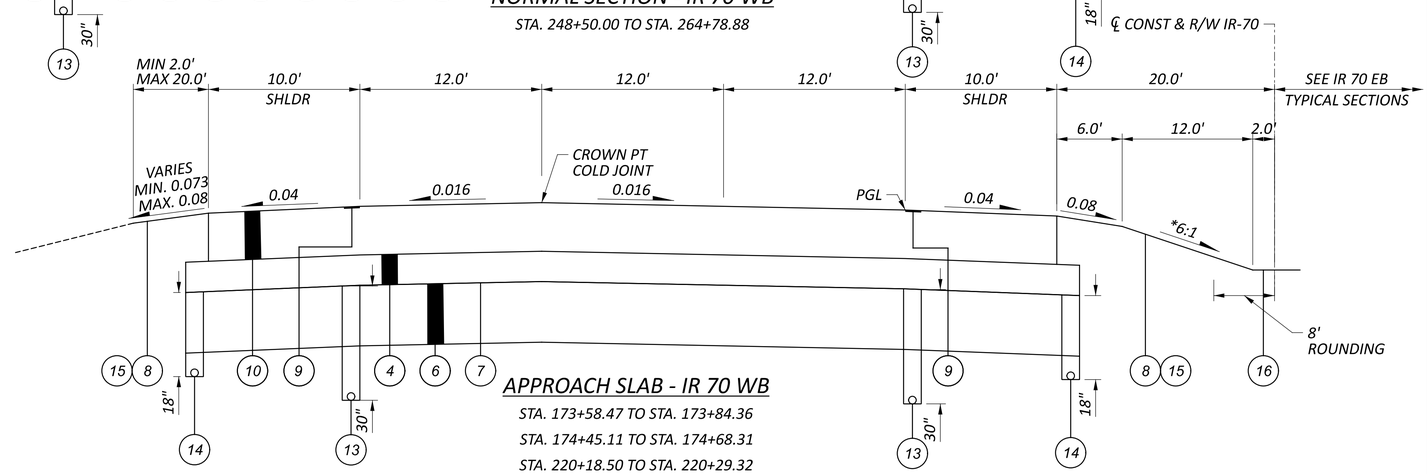
NORMAL SECTION - IR 70 WB

STA. 1+27.00 TO STA. 173+58.47
STA. 174+68.31 TO STA. 220+18.50
STA. 221+66.17 TO STA. 248+50.00
STA. 264+78.88 TO STA. 273+50.00



NORMAL SECTION - IR 70 WB

STA. 248+50.00 TO STA. 264+78.88



APPROACH SLAB - IR 70 WB

STA. 173+58.47 TO STA. 173+84.36
STA. 174+45.11 TO STA. 174+68.31
STA. 220+18.50 TO STA. 220+29.32
STA. 221+26.72 TO STA. 221+66.17

1 *ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)*

2 *ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)*

3 *ITEM 302 - 10" ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (PLACED IN 2 - 5" LIFTS)*

4 *ITEM 304 - 6" AGGREGATE BASE*

5 *ITEM 407 - NON-TRACKING TACK COAT*

6 *ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP***

7 *ITEM 206 - CURING COAT*

8 *ITEM 659 - SEEDING AND MULCHING*

9 *ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)*

10 *ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15")*

11 *ITEM 254 - 1.5" PAVEMENT PLANING, ASPHALT CONCRETE*

12 *ITEM 452 - 14.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA*

13 *ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS*

14 *ITEM 605 - 6" BASE PIPE UNDERDRAINS*

15 *ITEM 659 - TOPSOIL, 4"*

16 *ITEM 670 - DITCH EROSION PROTECTION*

TYPICAL SECTIONS

FRA-70-00.00

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 2:59:38 PM USER: AMerrill
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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P:9 TOTAL 577

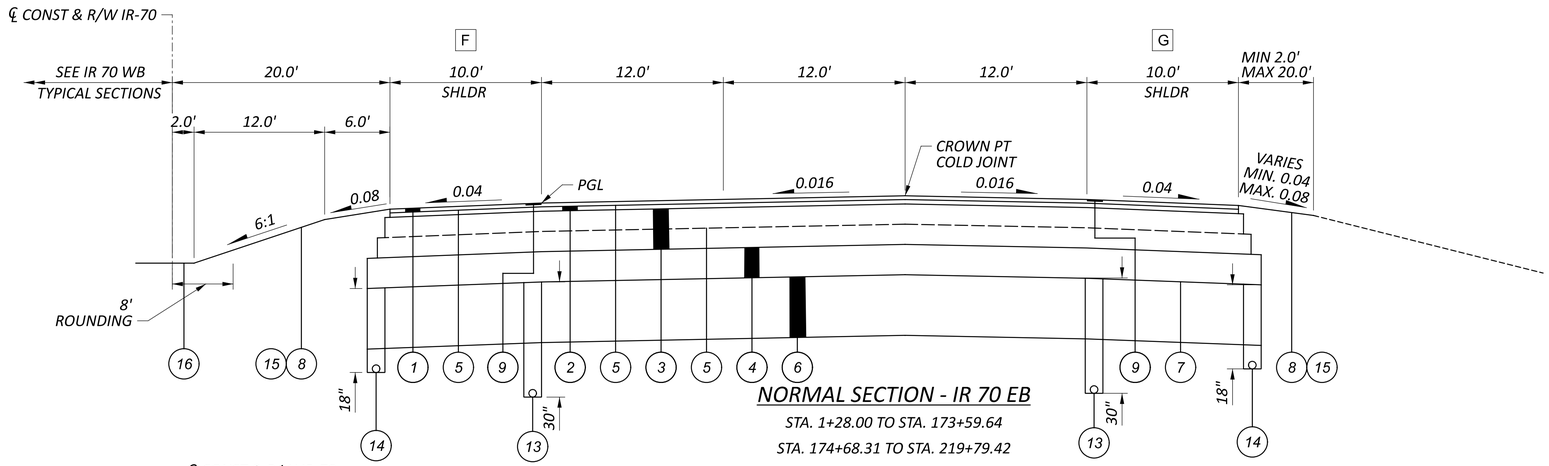
F *VARIES FROM 4.0' AT STA. 1+28.00 TO 10.0' AT STA. 1+58.07*
VARIES FROM 10.0' AT STA. 10+64.02 TO 12.0' AT STA. 11+14.10
VARIES FROM 10.0' AT STA. 134+77.08 TO 12.0' AT STA. 135+27.08
VARIES FROM 10.0' AT STA. 172+34.64 TO 5.0' AT STA. 173+47.14
5.0' FROM STA. 173+47.14 TO STA. 173+59.64
5.0' FROM STA. 174+68.31 TO STA. 174+70.81
VARIES FROM 5.0' AT STA. 174+70.81 TO 10.0' AT STA. 174+93.31
VARIES FROM 10.0' AT STA. 218+71.07 TO 5.0' AT STA. 219+83.57
5.0' FROM STA. 219+83.57 TO STA. 219+96.29
5.0' FROM STA. 221+29.81 TO STA. 221+34.42
VARIES FROM 5.0' AT STA. 221+34.42 TO 10.0' AT STA. 221+54.42
VARIES FROM 10.0' AT STA. 234+71.83 TO 12.0' AT STA. 235+21.83

G *VARIES FROM 8.5' AT STA. 1+28.00 TO 10.0' AT STA. 1+35.54*
VARIES FROM 10.0' AT STA. 173+22.14 TO 9.0' AT STA. 173+47.14
9.0' FROM STA. 173+47.14 TO STA. 173+59.64
VARIES FROM 9.0' AT STA. 174+68.31 TO 10.0' AT STA. 174+73.31
VARIES FROM 10.0' AT STA. 219+50.76 TO 9.0' AT STA. 219+75.76
VARIES FROM 9.0' AT STA. 221+09.53 TO 10.0' AT STA. 221+14.53

H *VARIES FROM 2.0' AT STA. 262+64.46 TO 23.0' AT STA. 265+04.31*

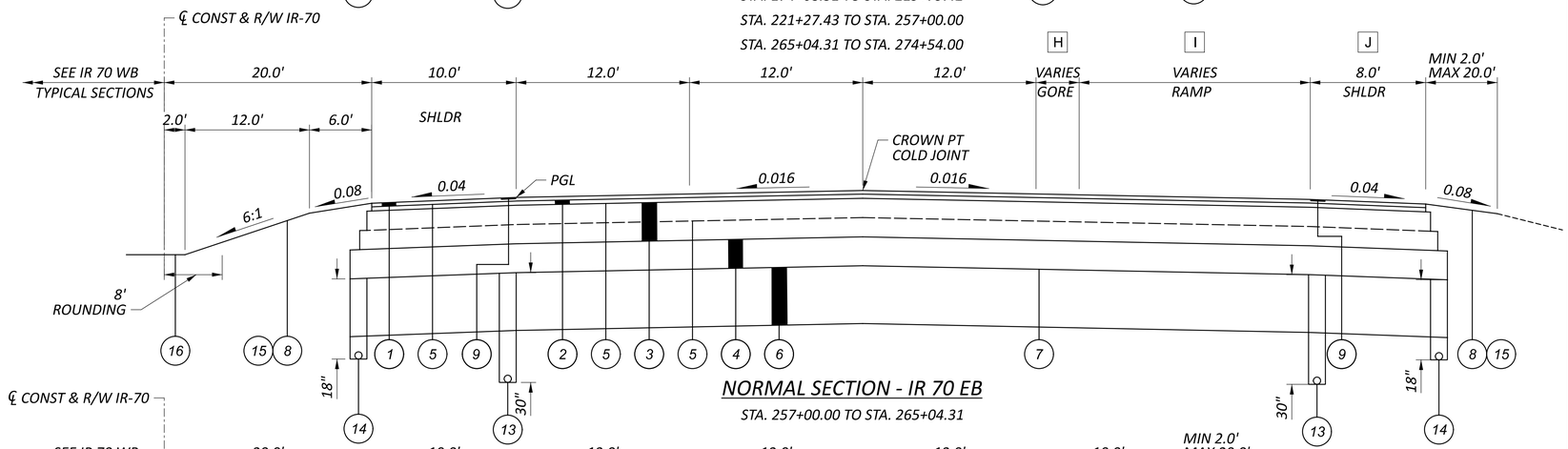
I *VARIES FROM 0.0' AT STA. 257+00.00 TO 12.0' AT STA. 258+00.00*
12.0' FROM STA. 258+00.00 TO STA. 260+50.00
VARIES FROM 12.0' AT STA. 260+50.00 TO 16.0' AT STA. 262+64.46
16.0' FROM STA. 262+64.46 TO STA. 265+04.31

J *VARIES FROM 10.0' AT STA. 257+00.00 TO 8.0' AT STA. 258+00.00*



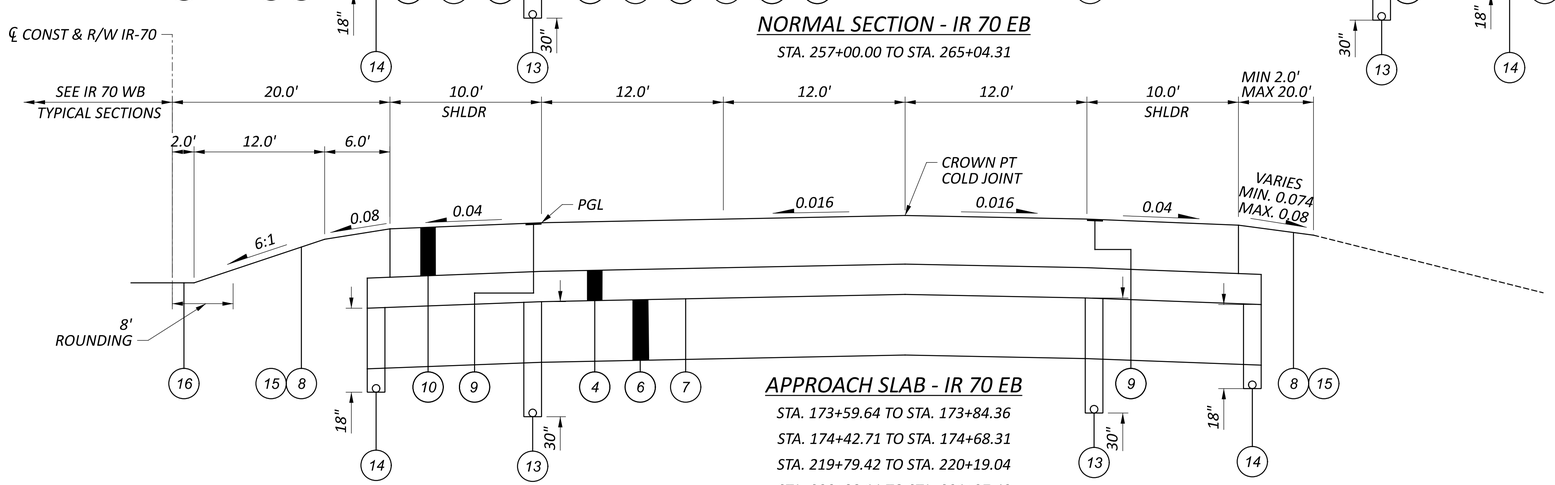
NORMAL SECTION - IR 70 EB

STA. 1+28.00 TO STA. 173+59.64
STA. 174+68.31 TO STA. 219+79.42
STA. 221+27.43 TO STA. 257+00.00
STA. 265+04.31 TO STA. 274+54.00



NORMAL SECTION - IR 70 EB

STA. 257+00.00 TO STA. 265+04.31



APPROACH SLAB - IR 70 EB

STA. 173+59.64 TO STA. 173+84.36
STA. 174+42.71 TO STA. 174+68.31
STA. 219+79.42 TO STA. 220+19.04
STA. 220+88.11 TO STA. 221+27.43

**10:1 SLOPE IN LOCATIONS WITH MGS GUARDRAIL TYPE B*

***EXISTING AGGREGATE BASE TO REMAIN AND BE INCORPORATED INTO THE PROPOSED STABILIZED SUBGRADE*

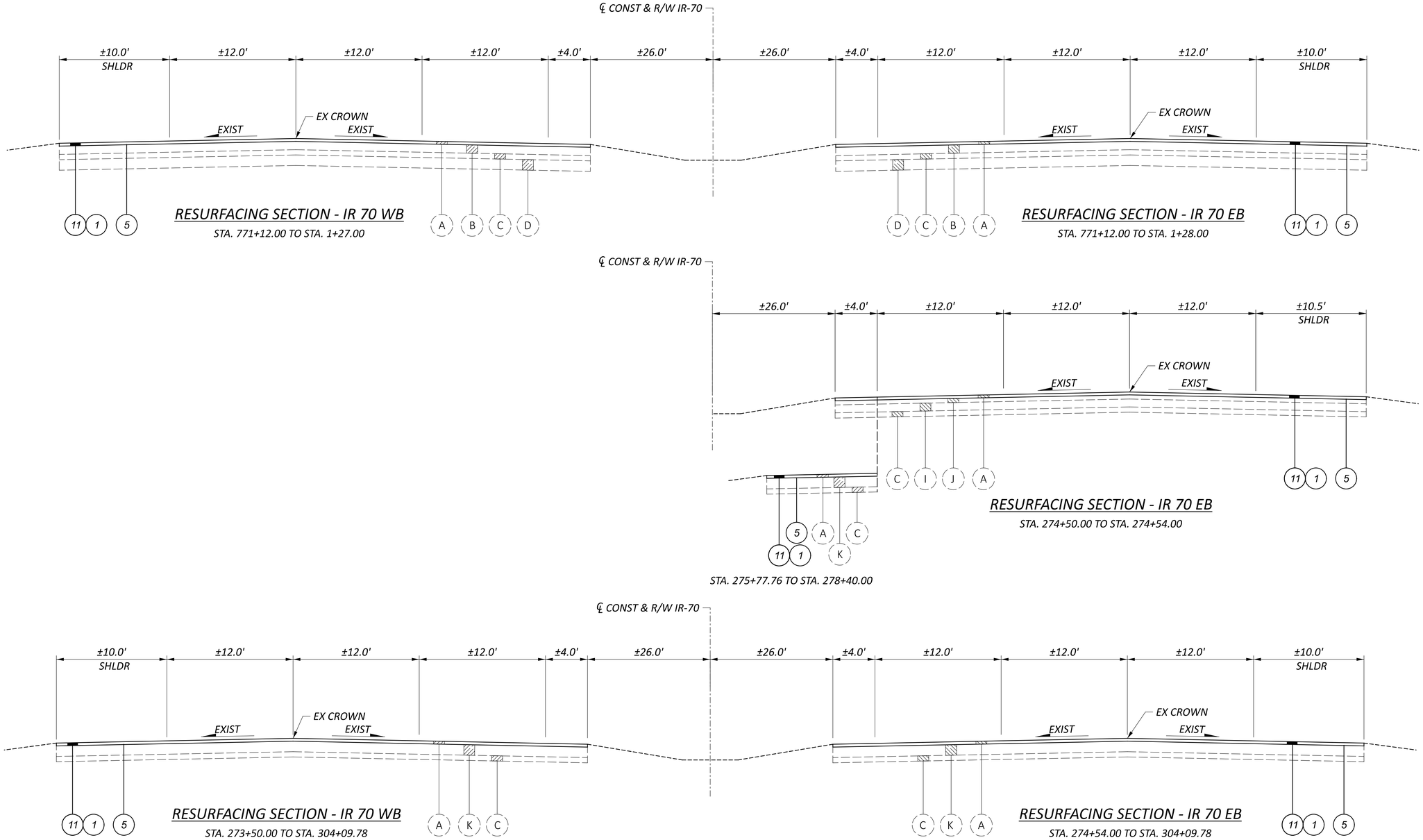
1. *ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)*
2. *ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)*
3. *ITEM 302 - 10" ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (PLACED IN 2 - 5" LIFTS)*
4. *ITEM 304 - 6" AGGREGATE BASE*
5. *ITEM 407 - NON-TRACKING TACK COAT*
6. *ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP***
7. *ITEM 206 - CURING COAT*
8. *ITEM 659 - SEEDING AND MULCHING*
9. *ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)*
10. *ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15")*
11. *ITEM 254 - 1.5" PAVEMENT PLANING, ASPHALT CONCRETE*
12. *ITEM 452 - 14.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA*
13. *ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS*
14. *ITEM 605 - 6" BASE PIPE UNDERDRAINS*
15. *ITEM 659 - TOPSOIL, 4"*
16. *ITEM 670 - DITCH EROSION PROTECTION*

TYPICAL SECTIONS

FRA-70-00.00

MODEL: Sheet 6 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 2:59:39 PM USER: AMerrill
O:\2023\00711C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_GY001.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.10 TOTAL 577



RESURFACING SECTION - IR 70 WB
STA. 771+12.00 TO STA. 1+27.00

RESURFACING SECTION - IR 70 EB
STA. 771+12.00 TO STA. 1+28.00

RESURFACING SECTION - IR 70 EB
STA. 274+50.00 TO STA. 274+54.00

STA. 275+77.76 TO STA. 278+40.00

RESURFACING SECTION - IR 70 WB
STA. 273+50.00 TO STA. 304+09.78

RESURFACING SECTION - IR 70 EB
STA. 274+54.00 TO STA. 304+09.78

**EXISTING AGGREGATE BASE TO REMAIN AND BE INCORPORATED INTO THE PROPOSED STABILIZED SUBGRADE

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 10" ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (PLACED IN 2 - 5" LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP**
7. ITEM 206 - CURING COAT
8. ITEM 659 - SEEDING AND MULCHING
9. ITEM 618 - RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
10. ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15")
11. ITEM 254 - 1.5" PAVEMENT PLANING, ASPHALT CONCRETE
12. ITEM 452 - 14.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA
13. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
14. ITEM 605 - 6" BASE PIPE UNDERDRAINS
15. ITEM 659 - TOPSOIL, 4"
16. ITEM 670 - DITCH EROSION PROTECTION

TYPICAL SECTIONS

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.11 TOTAL 577

FRA-70-00.00

MODEL: Sheet 7 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 2:59:39 PM USER: AMerrill
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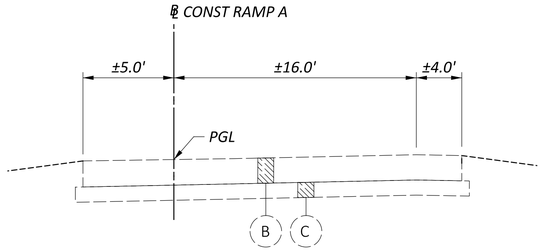
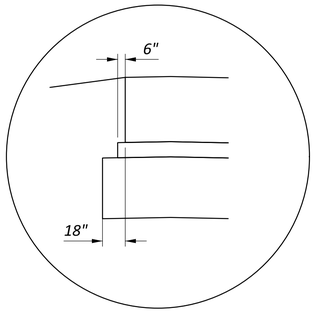
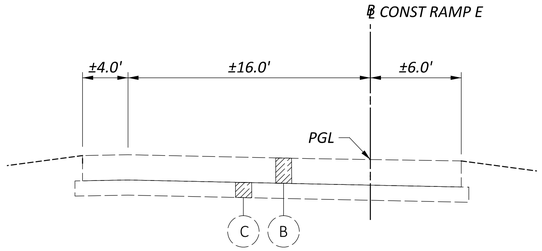


NORMAL EXISTING SECTION - RAMP A

STA. 264+84.12 TO STA. 278+17.73 ℄ CONST RAMP A



CONCRETE
BASE AND SUBBASE
STEP DETAIL



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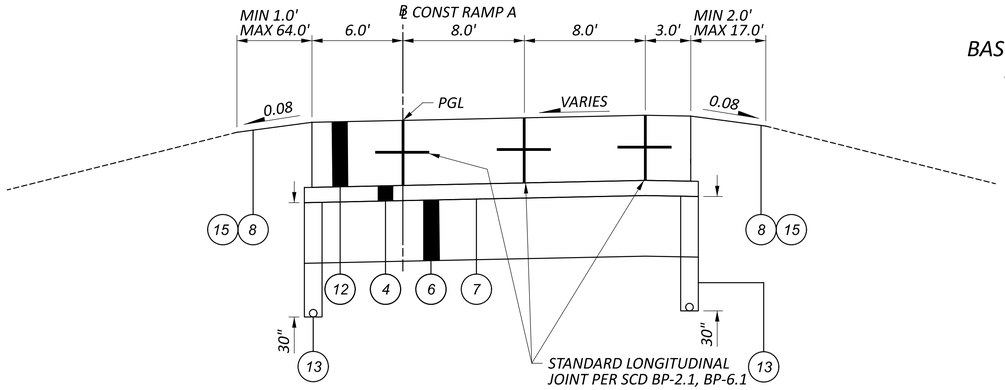

NORMAL SECTION - RAMP A

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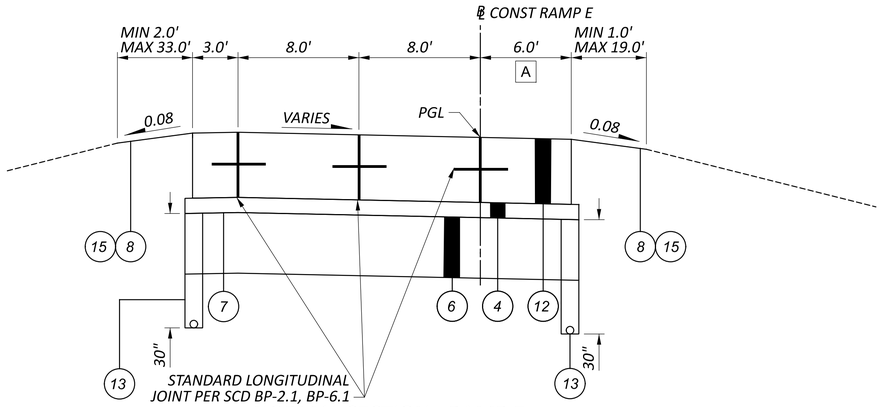

NORMAL SECTION - RAMP E

STA. 265+03.48 TO STA. 277+90.00 ℄ CONST RAMP E

A VARIES FROM 8.0' AT STA. 265+03.48 TO 6.0' AT STA. 265+53.48 ℄ CONST RAMP E

NOTE:
FOR PAVEMENT JOINT DETAILS, SEE SHEETS P.453-P.456.

1. ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)
2. ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
3. ITEM 302 - 10" ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX (PLACED IN 2 - 5" LIFTS)
4. ITEM 304 - 6" AGGREGATE BASE
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP**
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12. ITEM 452 - 14.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA
13. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
14. ITEM 605 - 6" BASE PIPE UNDERDRAINS
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TYPICAL SECTIONS

FRA-70-00.00

MODEL: Sheet 8 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 2:59:40 PM USER: AMerrill
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.12 | TOTAL 577

GENERAL

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AEP (TELECOM)
ATTN: MR. MARK HILL
VPCLIFFORD@AEP.COM
(614) 523-1992
(614) 716-2531
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

ATTN: MR. ROY MIDDLETON
RLMIDDLETON@AEP.COM
(614) 716-2531
1 RIVERSIDE PLAZA, 12TH FLOOR
COLUMBUS, OH 43215

ATTN: MR. JOEL B. TRAD
IBTRAD@AEP.COM
(614) 883-6793
1 RIVERSIDE PLAZA, 12TH FLOOR
COLUMBUS, OH 43215

CHARTER COMM
(SPECTRUM/TIME WARNER)
ATTN: JOEY VLOCK
JOSEPH.VLOCK@CHARTER.COM
(614) 402-1979
(614) 255-6349
3760 INTERCHANGE DR
COLUMBUS, OH 43204

FRANKLIN COUNTY ENGINEER'S OFFICE
ATTN:
ACOENG@FRANKLINCOUNTYENGINEER.ORG
(614) 525-3030
970 DUBLIN ROAD
COLUMBUS, OH 43215

MADISON COUNTY ENGINEER
ATTN:
ENGINEER@MADISON.OH.GOV
(740) 852-9404
825 US-42
LONDON, OH 43140

SON CTY SANITARY SEWER & WATER DIST
ATTN:
(740) 845-1284
2795 OLD COLUMBUS RD
LONDON, OH 43140

MADISON ENERGY COOPERATIVE
ATTN:
(330) 498-9130
4100 HOLIDAY ST. NW, SUITE 201
CANTON, OH 44718

OHIO EDISON
ATTN: CHRIS HARPER
HARPER@FIRSTENERGYCORP.COM
OFFICE - (937) 327-1283
CELL - (937) 207-9045
420 SOUTH YORK ST
SPRINGFIELD, OH 45505

ODOT CENTRAL ITS
ATTN: PAUL BECK, PE
TRANSPORTATION ENGINEER
PAUL.BECK@DOT.OHIO.GOV
(614) 387-1253
1620 W BROAD ST
COLUMBUS, OH 43222

AEP TRANSMISSION
ATTN: MICHAEL CARR
TL_PUBLICPROJECTS@AEP.COM
MDCARR@AEP.COM
(614) 552-1893
(614) 552-1801
700 MORRISON RD
GAHANNA, OH 43230

COLUMBIA GAS OF OH-COLUMBUS
ATTN: ROB CALDWELL
RCALDWELL@NISOURCE.COM
CELL - (614) 370-1906
(614) 818-2104
(614) 818-2107
3550 JOHNNY APPLESEED COURT
COLUMBUS, OH 43231

CITY OF COLUMBUS
ATTN:
UTILITYLEADREP@COLUMBUS.GOV
(614) 645-8276
111 N. FRONT ST.
COLUMBUS, OH 43215

COLUMBUS DEPT OF UTILITIES
ATTN:
UTILITYLEADREP@COLUMBUS.GOV
(614) 645-8276
111 N. FRONT ST.
COLUMBUS, OH 43215

MCI (VERIZON BUSINESS)
ATTN: MR. AL GUEST
ALLAN.GUEST@VERIZON.COM
OFFICE - (330) 253-8267
MOBILE - (330) 329-5495
120 RAVINE ST
AKRON, OH 44286

ZAYO FIBER SOLUTIONS
ATTN: SCOTT HEINLEN
SCOTT.HEINLEN@ZAYO.COM
(937) 295-7156
4199 KINROSS LAKES PKWY, SUITE 10
RICHFIELD, OH 44286

ATTN: DAVE GALUSKA
DAVE.GALUSKA@ZAYO.COM
(740) 501-6921
4199 KINROSS LAKES PKWY, SUITE 10
RICHFIELD, OH 44286

AMERICAN POWER & LIGHT
ATTN:
CUSTOMERSERVICE@ELECTRICAPL.COM
(888) 850-0098
AFTER HOURS - (877) 349-5441
PO BOX 182937
COLUMBUS, OH 43218

BREEZELINE - COLUMBUS
ATTN: STEVE CALLAHAN
STEVEN.CALLAHAN@WOWINC.COM
COLFR@WOWINC.COM
(614) 948-4636
(614) 749-2225
WIDE OPEN WEST (NOW BREEZELINE)
COLUMBUS, OH 43231

COLUMBIA GAS TRANSMISSION - SPRINGFIELD
ATTN:
(937) 322-7111
2101 W MAIN ST
SPRINGFIELD, OH 45504

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
DIVISION - TRAFFIC MANAGEMENT
(614) 645-7393
1820 EAST 17TH AVE
COLUMBUS, OH 43219

ODOT 6 TRAFFIC (DISTRICT 6)
ATTN: PAUL BECK
PAUL.BECK@DOT.OHIO.GOV
(740) 833-8000
400 E. WILLIAM STREET
DELAWARE, OH 43015

COLUMBUS FIBERNET/FISHEL
ATTN:
OSP@CNITEAM.COM
1600 WALCUTT ROAD
COLUMBUS, OH 43228

CROWN CASTLE
ATTN: JON TARNOWSKI
(585) 697-5145

JON.TARNOWSKI@CROWNCASTLE.COM
(585) 445-5813
470 SCHROCK ROAD SUITE B
COLUMBUS, OH 43229

ATTN: JOE TEPPER
JTEPPER@LIGHTOWER.COM
(614) 230-5765
470 SCHROCK ROAD SUITE B
COLUMBUS, OH 43229

EVERSTREAM SOLUTIONS
ATTN: KANN KHAY
KKHAY@EVERSTREAM.NET
(614) 354-7666
240 N 5TH ST SHUTE 168
COLUMBUS OH 43215

CITY OF HILLIARD (ELECTRIC/TRAFFIC)
ATTN:
ENGINEERING1@HILLIARDOHIO.GOV
(614) 876-7361
3800 MUNICIPAL WAY
HILLIARD, OH 43026

CITY OF HILLIARD (FIBER)
ATTN:
ENGINEERING1@HILLIARDOHIO.GOV
(614) 876-7361
3800 MUNICIPAL WAY
HILLIARD, OH 43026

CITY OF HILLIARD (STORM WATER/SEWER)
ATTN:
ENGINEERING1@HILLIARDOHIO.GOV
(614) 876-7361
3800 MUNICIPAL WAY
HILLIARD, OH 43026

AQUA AMERICA
ATTN: ANDREW J GREEN
AJGREEN@AQUAAMERICA.COM
365 E CENTER ST
MARION, OH 43302

AEP (TELECOM)
ATTN: ROBERT MATTHEWS
REMATTHEWS@AEP.COM
(740) 647-2080
700 MORRISON RD,
GAHANNA, OH 43230

COLUMBUS FIBERNET / FISHEL
ATTN: MARJU JALLOH
CMJALLOH@COLUMBUSFIBER.NET
1600 WALCUTT ROAD
COLUMBUS, OH 43228

AMERICAN ELECTRIC POWER
ATTN: JIM RIGDON
OHFIBERRELOCATE@AEP.COM
301 CLEVELAND AVE
S.W, CANTON, OH 44702-1623

OSPE ENGINEERING & CONSTRUCTION MANAGER
WINDSTREAM-KDL INC. (MCLEOD USA)
ATTN: LEON TAYLOR
LEON.TAYLOR@WINDSTREAM.COM
2165 STATE ROUTE 133
SOUTH BLANCHESTER, OH 45107

ADVANCED COMMUNICATION AND DATA
ATTN: SHIRLEY YOHNKA
YOHNKA.SHIRLEY@ACD.NET
(517) 999-3240
1800 N GRAND RIVER AVE
LANSING MI 48906

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET P.2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: VRS GNSS SURVEY
MONUMENT TYPE: TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: TRANSVERSE MERCATOR
COORDINATE SYSTEM: FRANKLIN COUNTY - OHIO COORDINATE SYSTEM
COMBINED SCALE FACTOR: 1.00000000
ORIGIN OF COORDINATE SYSTEM: (0,0)

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

CEMENT STABILIZATION

THIS PROJECT REQUIRES SUBGRADE IMPROVEMENTS USING CEMENT STABILIZATION PRIOR TO PAVEMENT CONSTRUCTION. CEMENT STABILIZATION SHALL BE PERFORMED TO A DEPTH OF 12 INCHES.

CHEMICALLY STABILIZE SUBGRADES TO 18 INCHES BEYOND THE EDGE OF THE SURFACE OF PAVEMENT, PAVED SHOULDERS, AND PAVED MEDIANS. WHERE CEMENT STABILIZATION IS PERFORMED, ITEM 204 - SUBGRADE COMPACTION SHALL NOT BE PERFORMED.

THE CONTRACTOR SHALL PERFORM THE MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS ACCORDING TO 206 OF THE C&MS AND SUPPLEMENT 1120. PAYMENT FOR THE MIX DESIGN SHALL BE PER:

ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, LUMP

IN ACCORDANCE WITH SECTIONS 107.10 AND 107.16 OF THE C&MS, THE CONTRACTOR SHALL EXERCISE CAUTION WHEN PERFORMING CEMENT STABILIZATION IN THE VICINITY OF ALL EXISTING AND PROPOSED UTILITY CROSSINGS. THE UTILITY DEPTHS ARE NEAR THE MINIMUM COVER REQUIREMENTS. THE CONTRACTOR SHALL AVOID USING POWER DRIVEN ROTARY MIXERS DIRECTLY ON TOP OF THE UTILITY CROSSINGS.

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MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 2:59:41 PM USER: AMerrill
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER ARM
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.13 TOTAL 577

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE B

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE B, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - CABLE GUARDRAIL

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY ONE OF THE HIGH TENSION FOUR CABLE GUARDRAIL SYSTEMS AS LISTED ON THE OFFICE OF ROADWAY ENGINEERING'S WEB PAGE. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION, AND ITEM 606 CABLE BARRIER, ANCHOR ASSEMBLY AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL HIGH TENSION CABLE GUARDRAIL SYSTEM NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER. THE LENGTH OF THE TENSIONED CABLE NECESSARY TO INSTALL A FUNCTIONAL ANCHOR SYSTEM SHALL BE INCLUDED IN ITEM 606, CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

SYSTEMS SHALL HAVE A MAXIMUM DEFLECTION OF 8 FEET AND THE MAXIMUM LONGITUDINAL DISTANCE BETWEEN POSTS SHALL BE 15 FEET.

INSTALLATION WILL BE A FOUR CABLE HIGH TENSION SYSTEM INSTALLED IN SOCKETED POSTS FOUNDATION WITH A FOUR FOOT WIDE "NO MOW STRIP".

DELINEATE THE CABLE BARRIER USING TYPE 6 BARRIER REFLECTORS PER ITEM 626 OR USING FLEXIBLE POSTS PER ITEM 620 AS CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.

ANCHOR TERMINAL STRUTS SHALL BE COVERED COMPLETELY ON BOTH SIDES WITH YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

TRANSITIONS TO W-BEAM GUARDRAIL ARE NOT ALLOWED.

REFER TO MANUFACTURER FOR MAXIMUM OFFSET FROM BREAK POINT.

TORPEDO OR BULLET SPLICES ARE NOT ALLOWED. ALL CABLE SPLICES SHALL BE A SWAGED OR OPEN BODY DESIGN THAT ALLOWS FOR ANNUAL INSPECTION BETWEEN THE WEDGE AND STRANDS OF CABLE.

POSTS ARE SET IN SOCKETED CONCRETE FOUNDATIONS AND SHALL NOT BE PERMANENTLY INSTALLED UNTIL THEIR RESPECTIVE RUNS OF TENSIONED CABLE GUARDRAIL ARE READY FOR FINAL CONNECTION TO THE END TERMINAL ASSEMBLY. THE CONTRACTOR SHALL REPLACE ANY POSTS DAMAGED DURING INSTALLATION AS DETERMINED BY THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

ITEM SPECIAL - CABLE BARRIER, MOW STRIP

THE CONTRACTOR SHALL PROVIDE A 4 INCH DEEP AND 4 FOOT WIDE MOW STRIP WITH MATERIALS CONFORMING TO ITEM 608, CONCRETE WALK.

THE MOW STRIP SHALL BE PLACED ON COMPACTED EARTH AND CONSTRUCTED USING CLASS QC1 CONCRETE WITH A CURING COMPOUND MEETING THE SPECIFICATIONS OF 705.07 OF THE CMS. THE MOW STRIP SHALL BE EITHER INTEGRAL TO THE SOCKETED CONCRETE FOUNDATION OR HAVE AN EXPANSION JOINT WITH MATERIALS MEETING THE REQUIREMENTS OF 705.03 OF THE CMS BETWEEN THE SOCKETED CONCRETE FOUNDATION AND THE CONCRETE MOW STRIP.

THE MOW STRIP SHALL HAVE A TRANSVERSE JOINT EVERY EIGHT FEET AND AN EXPANSION JOINT EVERY 100 FEET. THE METHODS AND MATERIALS USED TO CONSTRUCT THE JOINTS SHALL CONFORM TO CMS 608.03C.

ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT THE CONCRETE MOW STRIP SHALL BE PAID FOR UNDER ITEM SPECIAL - CABLE BARRIER, MOW STRIP.

ITEM SPECIAL - CABLE BARRIER, MOW STRIP 29780 FT

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT.

NO TREE REMOVAL IS PERMITTED FOR THIS PROJECT. A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

IF CONSTRUCTION WILL OCCUR ON A BRIDGE STRUCTURE GREATER THAN 20 FEET IN LENGTH OVER WATER, BETWEEN THE DATES OF MARCH 31 AND OCTOBER 1, IN AREAS OF THE BRIDGE STRUCTURE THAT PROVIDE SUITABLE HABITAT FOR ROOSTING BATS, AND GREATER THAN TWO YEARS HAVE ELAPSED SINCE THE LAST INSPECTION FOR BATS, AN INDIVIDUAL CAPABLE OF IDENTIFYING BATS SHALL INSPECT THE STRUCTURE FOR BATS. IF BATS ARE IDENTIFIED WITHIN THE PROPOSED WORK AREA, THE FOLLOWING APPLIES: PERFORM WORK BETWEEN OCTOBER 31 AND MARCH 31. THE CONTRACTOR MAY WORK YEAR-ROUND IF THE CONTRACTOR BLOCKS ACCESS TO PORTIONS OF THE BRIDGE THAT COULD BECOME ROOSTING LOCATIONS PRIOR TO APRIL 1. THESE AREAS INCLUDE; VERTICAL CREVICES SEALED AT THE TOP, 0.5-1.25" WIDE, AND 4" DEEP, CREVICES >12" DEEP & NOT SEALED, EXPANSION JOINTS, AND SPACES BETWEEN CONCRETE END WALLS AND THE BRIDGE DECK. PROVIDE WRITTEN CONFIRMATION TO THE ENGINEER INCLUDING A STATEMENT INDICATING MEASURES TAKEN TO BLOCK ACCESS TO ROOSTING LOCATIONS. DO NO PERFORM WORK THAT WOULD RESULT IN HARM TO THE BATS.

REFERENCE LOCATION SIGNS

THE LOCATION OF REFERENCE LOCATION SIGNS ON THE PLANS ARE APPROXIMATE AND A MORE PRECISE LOCATION WILL BE PROVIDED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 30 DAYS IN ADVANCE OF THE PLANNED DATE OF REFERENCE LOCATION SIGN INSTALLATION. THE ENGINEER WILL CONTACT THE OFFICE OF TECHNICAL SERVICES WHICH WILL LOCATE THE LONGITUDINAL POSITION OF REFERENCE LOCATION SIGNS BY MEANS OF A PAINT MARK ON THE PAVEMENT EDGE. ALTERNATE MARKS WILL NOT BE PROVIDED ON DIVIDED HIGHWAYS AND THE CONTRACTOR SHALL SET REFERENCE LOCATION SIGNS FOR THE OPPOSITE ROADWAY ACROSS FROM THE PROVIDED MARK. DELINEATORS WHOSE NORMAL POSITION FALLS WITHIN 50 FEET OF A REFERENCE LOCATION SIGN SHALL BE OMITTED.

CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. IN ALL CASES, THE PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES INCLUDING THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS IS IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

COORDINATION WITH EMERGENCY SERVICES AND SCHOOL DISTRICTS

THE CONTRACTOR WILL COORDINATE THE PROJECT SCHEDULE WITH LOCAL EMERGENCY MANAGEMENT SERVICES AND SCHOOL DISTRICTS A MINIMUM OF TWO WEEKS PRIOR TO THE START OF THE PROJECT. THE CONTRACTOR SHALL ALSO NOTIFY EACH OF THESE ENTITIES TWO WEEEKS IN ADVANCE ANY TIME A ROAD OR RAMP WILL BE CLOSED OR RE-OPENED.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTERS FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

CAREFULLY REMOVE AND STORE ALL CASTINGS WITHIN THE RIGHT OF WAY FOR SALVAGE BY DEPARTMENT FORCES

PAYMENT FOR ALL OF THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

STAGING AREAS

THERE ARE NO SPECIFIC AREAS GIVEN IN THE PLANS FOR THE CONTRACTOR TO USE AS A STAGING AREA(S). IF THE CONTRACTOR WANTS TO USE AN AREA(S) FOR STAGING, REGARDLESS IF IT FALLS WITHIN THE PROJECT LIMITS OR NOT, THE CONTRACTOR IS TO USE THE RIGHT OF WAY E-PERMITTING SYSTEM LOCATED AT HTTPS://ODHCP.BEMCORP.NET/ACCOUNTS/ACCOUNT/ACCOUNT IN ORDER TO APPLY FOR A PERMIT PER SECTION 107.02 OF THE C&MS. FOR SPECIFIC PERMITTING QUESTIONS, THE CONTRACTOR CAN CONTACT THE DISTRICT PERMITTING OFFICE, (MELVIN SAFFORD) AT 216-584-2137 OR AT DISTRICT12PERMITS@DOT.OHIO.GOV.

IF A PERMIT IS GRANTED, ALL CONDITIONS OF THE PERMIT SHALL BE MET IN ADDITION TO THE REQUIREMENTS OF 104.04 OF THE C&MS, AT NO ADDITIONAL COST TO THE STATE. IF THE PROJECT ENGINEER DEEMS THAT ALL THE CONDITIONS OF THE PERMIT WERE NOT MET, THEN 10% OF THE CONTRACT BID AMOUNT FOR MOBILIZATION SHALL BE WITHHELD UNTIL ALL THE CONDITIONS OF THE PERMIT ARE SATISFIED.

GENERAL NOTES

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.14 TOTAL 577

FRA-70-00.00

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LONGITUDINAL JOINT SPACING IN RIGID PAVEMENT

PROVIDE LONGITUDINAL JOINTS PER SCD BP-6.1. IN LOCATIONS WHERE THE TRAVEL LANES TAPER AND THE TYPICAL LONGITUDINAL JOINT SPACING PER SCD BP-6.1 CANNOT BE PROVIDED, THE WIDTH BETWEEN ADJACENT JOINTS SHALL VARY FROM 8'-0" ON THE SINGLE LANE RAMP END TO 12'-0" ON THE TWO LANE RAMP END WITHIN THE LIMITS OF THE PAVEMENT TAPER AREA. WHERE A TWO-LANE RAMP TRANSITIONS TO A THREE-LANE RAMP, THE LONGITUDINAL JOINT ALONG THE TAPERED PAVEMENT EDGE WILL BEGIN AT A TRANSVERSE JOINT WHERE THE WIDTH OF THE ADDITIONAL LANE IS A MINIMUM OF 2'-0" WIDE.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE

THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DAMAGE TO THE CONTRACTORS EQUIPMENT THAT MAY RESULT FROM THE PLANING OPERATION, INCLUDING DAMAGE CAUSED BY CASTINGS AND LOOP DETECTORS. THE DEPTH OF PLANING CLOSE TO THE CASTINGS SHALL BE AS DIRECTED; TO ACHIEVE A SMOOTH RIDING FINISHED PAVEMENT. GREAT CARE SHALL BE TAKEN TO PREVENT THE REMOVAL OF THE EXISTING PAVEMENT CROSS-SLOPE (CROWN) DURING THE PLANING OPERATIONS.

ALL PLANED PAVEMENT SHALL BE PLANED TO A DEPTH OF 1.5 INCHES AND RESURFACED WITH 1.5 INCHES OF THE ASPHALT CONCRETE SURFACE COURSE WITH THE SAME WORK PERIOD. FAILURE TO MEET THIS REQUIREMENT WILL SUBJECT THE CONTRACTOR TO A DISINCENTIVE OF $10,000/DAY FOR EACH DAY THE PLANED SURFACE IS NOT RESURFACED.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	*6 EACH*
659, TOPSOIL	*27,325 CU. YD.*
659, SEEDING AND MULCHING	*245,900 SQ. YD.*
659, REPAIR SEEDING AND MULCHING	*12,295 SQ. YD.*
659, INTER-SEEDING	*12,295 SQ. YD.*
659, COMMERCIAL FERTILIZER	*34.30 TON*
659, LIME	*50.81 ACRES*
659, WATER	*1,361 M. GAL.*
659, MOWING	*553 M. SQ.FT.*

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

BIORETENTION CELLS

RESTORE THE BIORETENTION CELLS AFTER ALL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED AS SHOWN ON THE CONTRACT PLANS. DO NOT OPERATE HEAVY EQUIPMENT WITHIN THE PERIMETER OF A BIORETENTION CELL. USE ALL SUITABLE EXCAVATED MATERIAL IN THE WORK. ALTERNATIVELY, LEGALLY USE, RECYCLE, OR DISPOSE OF ALL EXCAVATED MATERIALS ACCORDING TO 105.16 AND 105.17.

EXCAVATE THE BIORETENTION CELLS TO THE DIMENSIONS, WITH VERTICAL SIDES, TO THE ELEVATIONS SPECIFIED. MINIMIZE THE COMPACTION OF THE BOTTOM OF THE BIORETENTION CELL. EXCAVATION WILL BE MEASURED AND PAID AS ITEM 203, EXCAVATION.

THE BIORETENTION CELL CONSISTS OF FOUR DISCRETE LAYERS: BIORETENTION PLANTING SOIL LAYER, FINE AGGREGATE LAYER, COARSE AGGREGATE NO. 78 LAYER, AND COARSE AGGREGATE NO. 57 LAYER AND AN EXISTING UNDERDRAIN SYSTEM. THE EXISTING UNDERDRAIN SYSTEM SHALL REMAIN IN PLACE AND NOT BE DISTURBED BY THE CONTRACTOR. THE MATERIALS AND VOLUMES FOR EACH LAYER ARE AS SHOWN:

BIORETENTION CELL LAYERS	
BIORETENTION PLANTING LAYER	
	COMPOSITION BY VOLUME
	PARTS SAND - CMS FINE AGGREGATE PER 730.20
	PART TOPSOIL - CMS 659.05
	PARTS COMPOST - CMS 659.06
FINE AGGREGATE PER CMS 703.20	
COARSE AGGREGATE SIZE NO.78 PER 703.20	
COARSE AGGREGATE SIZE NO.57 PER 703.20	
TOTAL CUBIC YARDS	*1618*

PLACE THE BIORETENTION PLANTING SOIL IN 12 INCH LIFTS. THE BIORETENTION PLANTING SOIL LAYER PLUS 3 INCH COVER IS 3 INCHES GREATER THAN THE DEPTH SPECIFIED TO ACCOUNT FOR EXPECTED SETTLING OF THE UNCOMPACTED SOIL.

THE BIORETENTION PLANTING SOIL MUST BE A UNIFORM MIX THAT IS FREE OF STONES, STUMPS, ROOTS, OR ANY OTHER OBJECT LARGER THAN TWO INCHES. THE SOIL MAY CONSIST OF EXISTING SOIL, FURNISHED SOIL, OR A COMBINATION OF BOTH PROVIDED THAT THE PH IS BETWEEN 5.2 – 8.0 AND MEETS THE COMPOSITION REQUIREMENTS LISTED ABOVE. PHOSPHORUS CONCENTRATIONS OF THE PLANTING SOIL MUST FALL BETWEEN 15 AND 60 MG/KG (PPM) AND DETERMINED BY THE MEHLICH III TEST.

THOROUGHLY MIX THE BIORETENTION PLANTING SOIL PRIOR TO PLACEMENT.

PLACE SEED, TURF, TREES, SHRUBS, OR OTHER PLANT MATERIALS FOR BIORETENTION FACILITIES AS SPECIFIED. PLANT MATERIALS WILL BE MEASURED AND PAID FOR PER CMS ITEM(S) 659, 660, OR 661 DEPENDING ON THE PLANT MATERIALS SPECIFIED. APPLY NO PESTICIDES, HERBICIDES, LIME, AND FERTILIZERS. INSTALL ITEM 611 AS SPECIFIED. INSTALL TEMPORARY EROSION CONTROL MAT TYPE A, B, C, OR E PER CMS 671 WITH EITHER STRAW MULCH OR COMPOST OR AS SPECIFIED IN THE PLANS.

CONTRACTOR SHALL INSTALL 3 OBSERVATION WELLS/CLEANOUTS INTO THE EXISTING UNDERDRAIN SYSTEM, 1 EACH FOR THE 3 EXISTING BIORETENTION DITCHES (SEE LOCATIONS ON P.175). ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT THE OBSERVATION WELLS/CLEANOUTS SHALL BE PAID FOR UNDER ITEM 601 - BIORETENTION CELL.

BIORETENTION CELL RESTORATION IS PAID FOR AS:

ITEM 601 - BIORETENTION CELL	*1618 CU YD.*
ITEM 203 - EXCAVATION	*1618 CU YD.*

EQUIPMENT AND MATERIAL STORAGE

IN ORDER TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC THE CONTRACTOR'S ATTENTION IS DIRECTED TO 614.03. IN ADDITION THE FOLLOWING PROVISIONS SHALL APPLY:

1. *ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT OF WAY FOR MORE THAN THIRTY (30) DAYS.*
2. *THE STORAGE OF EQUIPMENT, MATERIALS, AND VEHICLES WITHIN THE HIGHWAY RIGHT OF WAY WILL BE PERMITTED. THE NUMBER OF AREAS AND EXACT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.*
3. *ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE.*

ITEM 202 - PAVEMENT REMOVED, AS PER PLAN

ALL EXISTING PAVEMENT TO BE REMOVED CONTAINING LAYERS OF CONCRETE, INCLUDING COMPOSITE ASPHALT OVER CONCRETE PAVEMENT, SHALL BE REMOVED UNDER ITEM 202 PAVEMENT REMOVED, AS PER PLAN. EXISTING PAVEMENT NOT CONTAINING CONCRETE SHALL BE REMOVED UNDER ITEM 202 PAVEMENT REMOVED, ASPHALT. SEE THE EXISTING TYPICAL SECTIONS FOR PAVEMENT BUILDUP. PAVEMENT FOR THE OPERATION DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEMS.

ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN

THIS ITEM OF WORK SHALL BE USED TO PREPARE PROPOSED AND EXISTING GUARDRAIL RUNS FOR PAVING UNDER GUARDRAIL, INCLUDING THE REMOVAL AND DISPOSAL OF EXISTING ASPHALT UNDER GUARDRAIL.

A SAWCUT WILL BE PERFORMED, WHEN APPLICABLE, TO ASSIST THE REMOVAL OF EXISTING ASPHALT UNDER GUARDRAIL AND MINIMIZE DAMAGE TO EXISTING SHOULDER ASPHALT. PAYMENT FOR SAWCUTTING WILL BE INCLUDED IN THE BID PRICE FOR ITEM 209 RESHAPING UNDER GUARDRAIL, AS PER PLAN.

FILL ALL HOLES REMAINING AFTER REMOVAL OF GUARDRAIL POSTS AND ANCHOR ASSEMBLIES WITH GRANULAR MATERIAL. DO NOT USE FILL MATERIAL CONTAINING SOD. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER AND SHALL BE COMPACTED AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE IS INCLUDED IN THE APPLICABLE GUARDRAIL ITEM.

RESHAPE AND COMPACT SUBGRADE TO ENSURE POSITIVE DRAINAGE. ESTABLISH A CROSS-SLOPE OF 0.042 (HALF INCH PER FOOT). GRADE TO A MAXIMUM WIDTH OF 6' TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE TRAVEL LANES.

ALL COLLECTED DEBRIS AND TOPSOIL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN SECTION 105.17 OF THE CMS.

IN AREAS WHERE ASPHALT UNDER GUARDRAIL WILL NOT BE REPLACED, THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 AND PLACED TO GRADE AS APPROVED BY THE ENGINEER. SEED AND MULCH THESE AREAS ACCORDING TO SECTION 659.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 209 RESHAPING UNDER GUARDRAIL, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM THE WORK.

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING ITEM 209, LINEAR GRADING, AS PER PLAN AND PAVING UNDER THE GUARDRAIL USING 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), UNDER GUARDRAIL, AS PER PLAN.

ITEM 209, LINEAR GRADING, AS PER PLAN SHALL CONSIST OF EXCAVATING TOPSOIL, AND PLACING GRANULAR MATERIAL.

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 105.17.

THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 209, LINEAR GRADING, AS PER PLAN.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 441 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING METHODS:

METHOD A:

1. *SET GUARDRAIL POSTS*
2. *PLACE ITEM 441*

METHOD B:

1. *PLACE ITEM 441*
2. *BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)*
3. *SET GUARDRAIL POSTS*
4. *PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.*

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 441, ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1 (449), UNDER GUARDRAIL, AS PER PLAN.

ITEM 832 - STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN

ALL REFERENCES TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION EFFLUENT GUIDELINES LISTED IN SUPPLEMENTAL SPECIFICATION 832 (SS832) AND APPENDIX E WILL BE REPLACED WITH THE OEPA GENERAL PERMIT NO. OHC000006, AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY LOCATED WITHIN THE BIG DARBY CREEK WATERSHED (BIG DARBY PERMIT).

THE CONTRACTOR NEEDS TO FULLY UNDERSTAND ALL REQUIREMENTS OF THE BIG DARBY PERMIT BEFORE BEGINNING ANY WORK. FOR ANY DISCREPANCIES BETWEEN SS832 AND THIS PLAN NOTE, RESOLUTION SHOULD BE BASED ON THE BIG DARBY PERMIT.

GENERAL NOTES

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DESIGN AGENCY
STRUCTUREPOINT LLC
DESIGNER ARM
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.15 TOTAL 577

ITEM 832 - STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN, CONTINUED

THE REQUIREMENTS OF SS832 ARE REQUIRED TO BE MET. IN ADDITION, THE CONTRACTOR SHOULD NOTE THE FOLLOWING REQUIRED ITEMS REGARDING IMPLEMENTATION OF SS832 AND THE BIG DARBY PERMIT THAT ARE NOTED BELOW:

SECTION 832.04 REQUIREMENTS:

POST CONSTRUCTION CONTROLS AND MITIGATION FOR RIPARIAN SETBACK AND GROUNDWATER RECHARGE DESCRIBED IN THE BIG DARBY PERMIT ARE NOT TEMPORARY EROSION CONTROL FEATURES. CONSTRUCTION REQUIREMENTS AND COMPENSATION FOR POST CONSTRUCTION CONTROLS AND MITIGATION, IF ANY, FOR RIPARIAN SETBACK AND GROUNDWATER RECHARGE ARE DETAILED IN THE PROJECT PLANS.

SECTION 832.05 LOCATE AND FURNISH BMP.

H. SEDIMENT BASINS AND DAMS

CONSTRUCT BASINS TO RETAIN 134 CUBIC YARDS (102 M3) OF WATER FOR EVERY ACRE (0.4 HA) OF DRAINAGE AREA. SAMPLE AND TEST EFFLUENT ACCORDING TO PART III.G.2.H.II OF THE BIG DARBY PERMIT.

LOCATIONS FOR SEDIMENT BASINS ARE PROVIDED IN THE PLANS. REVISED SEDIMENT BASIN LOCATIONS DUE TO CONSTRUCTION ISSUES MUST HAVE PRIOR DISTRICT APPROVAL.

SECTION 832.09 STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

THE LOCATION OF THE RIPARIAN SETBACKS AND SEDIMENT BASINS AS SHOWN IN THE PLANS MUST BE INCORPORATED INTO THE SWPPP. THE CONTRACTOR CANNOT AMMEND THE LOCATIONS OF THE RIPARIAN SETBACKS. REVISED SEDIMENT BASIN LOCATIONS DUE TO CONSTRUCTION ISSUES MUST HAVE PRIOR DISTRICT APPROVAL.

ON THE SWPPP, FOR EACH SEDIMENT BASIN OR DAM, PROVIDE THE SETTLING VOLUME, CONTRIBUTING DRAINAGE AREA, AND DESIGNATE EACH WITH A UNIQUE THREE DIGIT NUMBER.

SECTION 832.12 COMPENSATION.

ALL WORK CONSISTING OF LOCATING, FURNISHING, INSTALLING, SAMPLING, TESTING AND MAINTAINING TEMPORARY SEDIMENT AND EROSION CONTROL BEST MANAGEMENT PRACTICES FOR EARTH DISTURBING ACTIVITY AREAS AND DEVELOPING A STORM WATER POLLUTION PREVENTION PLAN AND CO-PERMITEE FORM SHALL MEET SS832 AND THE BIG DARBY PERMIT.

IN ADDITION TO WORK DESCRIBED, ALL TESTING AND REPORTING ASSOCIATED WITH THE ROUTINE INSPECTION OF THE SEDIMENT BASINS, DAMS AND OUTFALLS SHALL ALSO BE INCLUDED.

ALL WORK TO BE PAID FOR UNDER:

ITEM 832 STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN 1 LUMP

SECTION 832.13 METHOD OF MEASUREMENT.

THE DEPARTMENT WILL MEASURE THE SWPPP, AS PER PLAN AS A LUMP SUM ITEM.

SECTION 832.14 BASIS OF PAVEMENT.

THE DEPARTMENT WILL PAY THE CONTRACT LUMP SUM BID FOR SWPPP, AS PER PLAN.

ITEM 832 - STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN, CONTINUED

ITEM 832 EROSION CONTROL

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ITEM 832 - EROSION CONTROL:

ITEM 832 - EROSION CONTROL 996,615 EACH

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ITEM 832 - STORM WATER POLLUTION PREVENTION INSPECTIONS:

ITEM 832 - STORM WATER POLLUTION INSPECTIONS 1 LUMP

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ITEM 832 - STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE:

ITEM 832 - STORM WATER POLLUTION INSPECTION SOFTWARE 1 LUMP

ITEM 625 - RE-ERECT EXISTING LIGHT TOWER, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF INSTALLING AN EXISTING LIGHT TOWER REMOVED FROM A PREVIOUS LOCATION ON THE PROJECT SITE OR SUPPLIED TO THE PROJECT BY OTHERS.

WHEN REQUIRED, ADDITIONAL LUMINAIRE BRACKET ARMS SHALL BE ADDED TO THE EXISTING LUMINAIRE BRACKETS RELOCATED ALONG WITH THE NECESSARY ADJUSTMENTS AND ADDITIONS TO THE LUMINAIRE WIRING TO ENABLE THE LUMINAIRES TO BE MOUNTED SYMMETRICALLY AROUND THE LUMINAIRE MOUNTING RING.

WHERE THE TOWER WILL BE INSTALLED ON A NEW FOUNDATION, NEW ANCHOR BOLTS SHALL BE FURNISHED.

THE TOWER AND LOWERING MECHANISM SHALL BE CLEANED AND LUBRICATED.

ANY REPAIRS AND ADJUSTMENTS NECESSARY TO RETURN THE TOWER AND MECHANISM TO GOOD OPERATING CONDITION SHALL BE MADE.

THE EXISTING LIGHT TOWER IDENTIFICATION DECAL SHALL BE REMOVED, AND A NEW DECAL FOR THE NEW IDENTIFICATION NUMBER FURNISHED AND INSTALLED.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID UNDER C&MS ITEM 625, "RE-ERECT EXISTING LIGHT TOWER, AS PER PLAN" FOR EACH TOWER RE-ERECTED WHICH SHALL INCLUDE ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER

CITY OF COLUMBUS NOTES

NOTES FOR MASS GRADING PLANS NOT GOING TO FEMA

UPON COMPLETION OF THE FILL IN CONJUNCTION WITH THIS MASS GRADING PLAN, AN APPLICATION FOR A LETTER OF MAP REVISION (LOMR) WILL NOT BE SUBMITTED TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), THUS ANY FUTURE SUBMITTAL TO FEMA WILL FIRST REQUIRE A NEW GRADE AND FILL PLAN WITH PROOF AS THE FILL USED AND PROPER PLACEMENT, INCLUDING COMPACTION. PRIOR TO THE EFFECTIVE DATE OF THE LOMR, A BUILDING CONSTRUCTED WITHIN THE DESIGNATED FILL AREA WILL BE ELEVATED AND/OR DRY FLOOD PROOFED IN ACCORDANCE WITH THE REQUIREMENTS OF C.C. CHAPTER 1150, FLOODPLAIN MANAGEMENT, OF THE COLUMBUS WATER, SEWER AND ELECTRICITY CODE.

NOTES FOR MASS GRADING PLANS NOT GOING TO FEMA, CONTINUED

FILLING MAY BE ALLOWED IN THE FLOODWAY FRINGE ONLY IF ASSOCIATED WITH A GRADE AND FILL PLAN. THE GRADE AND FILL PLAN SHALL BE FULLY DETAILED AND SUBMITTED AS PART OF AN APPLICATION FOR A CERTIFICATE OF ZONING CLEARANCE. FILL SHALL NOT BE PLACED UNTIL AFTER THE CERTIFICATE OF ZONING CLEARANCE HAS BEEN ISSUED FOR GRADING AND FILLING.

REGARDLESS OF ANY DETERMINATION ISSUED BY FEMA TO REMOVE AN AREA FILLED AS PERMITTED AND APPROVED FROM THE DESIGNATED SPECIAL FLOOD HAZARD AREA (SFHA), DEVELOPMENT WITHIN THAT AREA OF FILL SHALL BE CONSTRUCTED WITH THE LOWEST FLOOR LEVEL, EXCLUDING A BASEMENT OR CRAWL SPACE, AT OR ABOVE THE FLOOD PROTECTION ELEVATION.

THE LOWEST GRADE ADJACENT TO A BUILDING OR STRUCTURE TO BE CONSTRUCTED WITHIN THE DESIGNATED FILL AREA SHALL BE AT OR ABOVE THE FLOOD PROTECTION ELEVATION, WITH THAT GRADE ELEVATION TO EXTEND AT LEAST TWENTY (20) FEET FROM THE PROPOSED BUILDING TOWARDS THE FLOODWAY OR FLOODING SOURCE.

IN ADDITION, A RESIDENTIAL DWELLING WITHIN THE DESIGNATED FILL AREA MUST HAVE A MEANS OF INGRESS AND EGRESS AT OR ABOVE THE BASE FLOOD ELEVATION THAT EXTENDS CONTINUOUSLY FROM THE DWELLING TO A LOCATION OUTSIDE THE SPECIAL FLOOD HAZARD AREA WITHIN THE SUBJECT SITE.

REASONABLY SAFE FROM FLOODING
ALL STRUCTURES ASSOCIATED WITH FUTURE DEVELOPMENT WITHIN THE AREA OF THE FLOODPLAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD OF BEING "REASONABLY SAFE FROM FLOODING", AS OUTLINED IN TECHNICAL BULLETIN 10-01, DATED MAY 2001, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) OR SUCCESOR DOCUMENTS.

FOR THE DIVISION OF POWER

THE DIVISION OF POWER (DOP) MAY HAVE UNDERGROUND OR OVERHEAD PRIMARY POWER, SECONDARY POWER, CONDUIT SYSTEMS AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 811 OR 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1001.18 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHTING LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-01, COPIES OF WHICH ARE AVAILABLE FROM DOP.

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

ENVIRONMENTAL COMMITTMENT NOTES
THE PROJECT IS LOCATED WITHIN SEVERAL FEMA IDENTIFIED 100-YEAR FLOODPLAINS. IF ADDITIONAL FLOODPLAIN COORDINATION IS WARRANTED, ODOT WILL COMPLETE THIS TASK PRIOR TO THE FILING OF THE PROJECT PLANS.

THE CONTRACTOR SHALL NOT DISCHARGE TOXIC OR HAZARDOUS MATERIALS SUCH AS SEALANTS, PAINTS, SOLVENTS, CLEANING AGENTS, EARTHEN MATERIALS, WASTEWATER, FUELS OR DEBRIS OF ANY KIND TO BIG DARBY CREEK, ITS TRIBUTARIES, OR DRAINAGE WAYS. IF REFUELING OF IMMOBILE EQUIPMENT IS NECESSARY WITHIN THE FLOODPLAIN OR NEAR ANY TRIBUTARY DRAINAGE WAYS, DITCHES, OR STREAM, THE CONTRACTOR SHALL PROVIDE SECONDARY CONTAINMENT WITH ENOUGH CAPACITY TO COMPLETELY CONTAIN AND COLLECT ALL POTENTIAL LIQUID WASTES IN THE EVENT OF A SPILL.

IN ACCORDANCE WITH ORC 3750.06, REPORTABLE SPILLS MUST BE REPORTED TO THE LOCAL FIRE DEPARTMENT (911), THE LOCAL EMERGENCY COORDINATOR 614-794-0213, AND THE OHIO SPILL LINE (1-800-282-9378)

THE CONTRACTOR SHALL KEEP ALL IDLE EQUIPMENT, FUELS, LUBRICANTS, AND ANY STORAGE FOR/OF POTENTIALLY TOXIC OR HAZARDOUS MATERIALS OUT OF THE FEMA DESIGNATED SPECIAL FLOOD HAZARD AREA AND NOT WITHIN 1000 FEET OF BIG DARBY CREEK.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER 40 DAYS PRIOR TO WORK WITHIN 1000 FEET OF BIG DARBY CREEK. THE PROJECT ENGINEER SHALL NOTIFY THE DISTRICT ENVIRONMENTAL COORDINATOR 35 DAYS PRIOR TO WORK WITHIN 1000 FEET OF BIG DARBY CREEK. THE DISTRICT ENVIRONMENTAL COORDINATOR SHALL COORDINATE WITH ODNR SCENIC RIVERS A MINIMUM OF 30 DAYS PRIOR TO ANY WORK WITHIN 1000 FEET OF BIG DARBY CREEK.

THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SWPPP, PER SS 832, BEFORE EARTHWORK COMMMENCES. SEDIMENT AND EROSION CONTROLS SHALL BE PROPERLY INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. STRAW BALES SHALL NOT BE PERMITTED AS A FORM OF SEDIMENT CONTROL. ENSURE TIMELY ADHERENCE TO THE GENERAL CONSTRUCTION PERMIT FOR ALL SEDIMENT AND EROSION CONTROLS, INCLUDING SEEDING AND MULCHING. PARTICULAR ATTENTION SHALL BE GIVEN TO ANY DRAINAGE WAYS, UNPROTECTED SLOPES, DITCHES, AND STREAMS THAT COULD CONVEY SEDIMENT LADEN WATERS DIRECTLY TO BIG DARBY CREEK.

ANY COMMENTS RECEIVED BY THE ODNR SCENIC RIVER MANAGER WILL BE ADDRESSED BY ODOT PRIOR TO FILING OF THE PLANSET.

ANY AND ALL CONSTRUCTION DEBRIS, EARTHEN DEBRIS, EXCESS ASPHALT OR CONCRETE, WOOD DEBRIS FROM CLEANING, EXCESS FILL MATERIAL, AND TRASH SHOULD BE DISPOSED OF AT AN APPROVED UPLAND SITE OR LAND FILL ABOVE FEMA 100-YEAR FLOOD ELEVATIONS. DISPOSAL OF ANY SUCH MATERIALS WITHIN 1000 FEET OF BIG DARBY CREEK IS PROHIBITED.

ITEM 606 - SPECIAL - NOISE BARRIER PANEL REMOVAL AND REUSE
NOISE BARRIER PANELS SHALL BE REMOVED AND STORED ON SITE, AND THEN REPLACED AFTER THE CONSTRUCTION OF THE PROPOSED STORM SEWER CROSSINGS AT THE FOLLOWING LOCATIONS:

STA 236+00 RT, STA 246+50 RT, STA 251+85 RT

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ITEM 606 - SPECIAL - NOISE BARRIER PANEL REMOVAL AND REUSE:

ITEM 606 - SPECIAL - NOISE BARRIER PANEL REMOVAL AND REUSE 3 EACH

PAYMENT FOR THE ABOVE WORK SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK.

GENERAL NOTES

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.16
TOTAL	577

FRA-70-00.00

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 1/24/2025 TIME: 4:05:51 PM USER: AMerrill
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ITEM 302 - ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX

MIX DESIGN - FOLLOW THE REQUIREMENTS OF 302.02 EXCEPT AS MODIFIED BELOW:

- *THE TSR TEST PER SUPPLEMENT 1051 IS REQUIRED AND THE MINIMUM TSR IS 0.80 FOLLOWING THE 150 MM GYRATORY COMPACTED SPECIMEN PROCEDURE. USE ANTISTRIP ADDITIVE AS SPECIFIED IN 440.06.*
- *USE 150 MM DIAMETER SUPERPAVE GYRATORY COMPACTOR MOLDS. FILL MOLDS DURING COMPACTION IN ONE LIFT AND NOT TWO AS YOU WOULD DO WITH 302 MIXES. DO NOT SPADE. VOLUMETRIC PILL HEIGHTS OF 110 TO 120 MM. USE A PILL HEIGHT OF 95 MM FOR STABILITY AND FLOW AND CONVERT, IF NEEDED, USING TABLE 302-02-2.*
- *REPLACE TABLE 302-02-1 WITH THE FOLLOWING:*

TABLE 302.02-1 MIX COMPOSITION

Property	Limits
1 1/2 inch (37.5 mm) [1]	*100*
1 inch (25.0 mm) [1]	*90 to 100*
3/4 inch (19.0 mm) [1][2]	*90 max*
1/2 inch (12.5 mm)[1][2]	
3/8 inch (9.5 mm)[1] [2]	
No. 8 (2.36 mm)[1]	*19 to 45*
No. 200 (75 µm) [1]	*1 to 7*
Asphalt Binder [3]	*4.1 – 5.5 [4]*
Design Gyrations [5]	*50*
Stability, lb [6] (N)	*3000 (13,345) [Min]*
Flow, 0.25 mm [6]	*28 [Max]*
Design Air Voids [7]	*3.5*
F/A, max. [8]	*1.2*
VMA, min. [9]	*12*
CTIndex, min. [10]	*60*

[1] SIEVE, PERCENT PASSING
[2] PROVIDE AGGREGATE TO RETAIN A MINIMUM OF 7 PERCENT OF THE MATERIAL ON EACH OF THESE SIEVES. THIS REQUIREMENT APPLIES TO THE GRADATION OF THE JMF ONLY.
[3] PERCENT OF TOTAL MIX. MINIMUM VIRGIN ASPHALT BINDER CONTENT IS 2.2% FOR METHOD 1 AND 2.0% FOR METHOD 2.
[4] PERCENT OF TOTAL MIX
[5] NINI AND NMAX DO NOT APPLY.
[6] ASTM D5581
[7] PERCENT, SUPPLEMENT 1036
[8] CALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT.
[9] PERCENT, SUPPLEMENT 1037
[10] PERFORM THE IDEAL-CT AND REPORT RESULTS ACCORDING TO SUPPLEMENT 1033

ITEM 302 - ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX, CONTINUED

QUALITY CONTROL AND ACCEPTANCE

FOLLOW THE REQUIREMENTS AS SPECIFIED IN 403 USING 446 ACCEPTANCE EXCEPT AS MODIFIED BELOW:

- *RUN MSG AND AIR VOIDS AND FOLLOW 403.06.G INSTEAD OF 403.06.F.*

Table 403.06-1

Mix Characteristic	Out of Specification Limits [5]
Asphalt Binder Content [1]	*-0.3% to 0.3%*
1/2 inch (12.5 mm) sieve [1]	*-6% to 6%*
No. 4 (4.75 mm) sieve [1]	*-5% to 5%*
No. 8 (2.36 mm) sieve [1]	*-4% to 4%*
No. 200 (75 mm) sieve [1]	*-2.0% to 2.0%*
Air Voids [2]	*2.5% to 4.5%*
MSG [3]	*-0.012 to 0.012*
F/A [4]	*1.2 max*
VMA	*11.5 min*

[1] DEVIATION FROM THE JMF.
[2] FOR DESIGN AIR VOIDS OF 3.5%. USE A GYRATORY COMPACTOR.
[3] DEVIATION FROM THE MTD.
[4] CALCULATE THE F/A RATIO USING THE EFFECTIVE ASPHALT BINDER CONTENT.
[5] DO NOT FOLLOW THE MINIMUM 7% RETAINED DURING PRODUCTION PER 403.06.F.5.

- *FOLLOW REQUIREMENTS OF 446 AND REPLACE MSG COMPARISON IN TABLE 403.10-1 WITH 0.012.*
- *FOR INFORMATION ONLY AND WHEN REQUESTED BY THE DEPARTMENT UP TO FIVE DIFFERENT PRODUCTION DAYS, HOT-COMPACT 10 GYRATORY SPECIMENS PER SUPPLEMENT 1033. DO NOT TEST THESE PILLS.*
- *NOTIFY ERIC BIEHL - OMM 614-275-1380 AND JULIA MILLER OCA 614-466-3165 TWO WEEKS PRIOR TO PLANNED BEGINNING PRODUCTION AND PLACEMENT. YOU MAY EMAIL THEM AS WELL.*

PLACEMENT

ENSURE THE COMPACTION DEPTH OF ANY ONE LAYER IS A MINIMUM OF 4.0 INCHES AND A MAXIMUM OF 6.0 INCHES. IF THE PLAN THICKNESS IS 6.0 TO 7.75 INCHES, THE 302 MAY BE PLACED IN TWO LIFTS IF REQUESTED BY THE CONTRACTOR.

DENSITY ACCEPTANCE

FOLLOW THE REQUIREMENTS OF 446 ASPHALT CONCRETE CORE DENSITY ACCEPTANCE, INCLUDING JOINT CORES, EXCEPT AS MODIFIED BELOW:

OBTAIN 6-INCH DIAMETER CORES ON EACH LIFT PLACED.
OBTAIN JOINT CORES AT COLD LONGITUDINAL JOINTS SUCH THAT THE CORE'S CLOSEST EDGE IS 6 INCHES (152 MM) FROM THE EDGE OF THE MAT.
PAY FACTORS FOR EACH LIFT OF 302 APP WILL BE AS SPECIFIED IN THE FOLLOWING TABLE.

ITEM 302 - ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX, CONTINUED

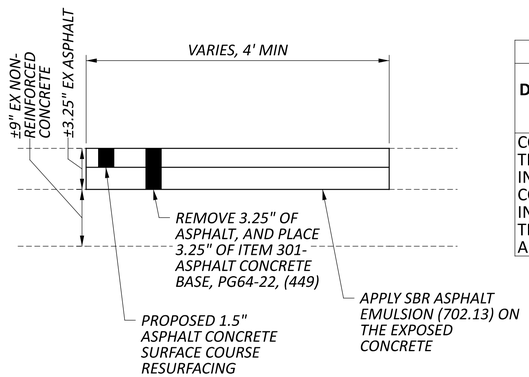
Mean of Lot Core Density [1]	Pay Factor 302, APP
>98.0%	[2]
>97.0% to 98.0%	[3]
93.0% to 97.0%	1
92.0% to 92.9%	0.9
91.0% to 91.9%	0.8
90.0% to 90.9%	0.7
<90.0%	[4]

[1] MEAN OF CORES AS PERCENT OF AVERAGE MSG FOR THE PRODUCTION DAY.
[2] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE.
THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.
[3] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE.
THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.70.
[4] THE DISTRICT WILL DETERMINE WHETHER THE MATERIAL MAY REMAIN IN PLACE.
THE PAY FACTOR FOR MATERIAL ALLOWED TO REMAIN IN PLACE IS 0.50.

IF MATERIAL IS REMOVED AND REPLACED THE CONTRACTOR WILL REMOVE AND REPLACE THIS COURSE AND ALL COURSES PAVED ON THIS COURSE.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), AS PER PLAN

ALL REPAIR AREAS SHALL BE DETERMINED AND VERIFIED BY THE PROJECT ENGINEER BEFORE THE BEGINNING OF WORK. THE REPAIR AREAS SHALL CONSIST OF REMOVING 3.25 INCHES OF PAVEMENT, APPLYING SBR ASPHALT EMULSION (702.13) ON THE EXPOSED CONCRETE, AND PLACING 3.25 INCHES OF ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (449). THE LENGTH VARIES, BUT THE MINIMUM WIDTH SHALL BE 4 FEET. THE INTENT IS TO REMOVE THE EXISTING ASPHALT DOWN TO THE CONCRETE LAYER; THE REPAIR DEPTH SHOULD BE ADJUSTED AS NEEDED TO FULFILL THIS INTENT. GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROSS SLOPE (CROWN), AS WELL AS ALL LONGITUDINAL SLOPES DURING THE PAVING OPERATIONS.



THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), AS PER PLAN:

ITEM 251 - PARTIALS DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), AS PER PLAN 500 CY

INCENTIVE CONTRACT

THE CONTRACTOR WILL BE PAID A LUMP SUM INCENTIVE AS DESIGNATED IN THE LUMP SUM MINUS INCENTIVE CONTRACT TABLE FOR COMPLETING THE WORK BEFORE THE COMPLETION DATE(S). THE LUMP SUM MINUS INCENTIVE CONTRACT TABLE IS LOCATED IN THE PLAN GENERAL NOTES. THE LUMP SUM INCENTIVE WILL BE DECREASED BY THE DISINCENTIVE AMOUNT SHOWN IN THE LUMP SUM MINUS INCENTIVE CONTRACT TABLE FOR EACH DAY THAT THE CONTRACTOR DOES NOT HAVE THE ITEMS OF CRITICAL WORK COMPLETED UNTIL THE LUMP SUM INCENTIVE REACHES ZERO.

IN THE EVENT THE CONTRACTOR IMPEDES THE FLOW OF TRAFFIC SUBSEQUENT TO THE COMPLETION OF ANY LISTED CRITICAL WORK, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES AS PER C&MS 108.07 FOR EACH DAY OR A PORTION OF EACH DAY THAT TRAFFIC IS RESTRICTED.

CRITICAL WORK IS SHOWN IN THE LUMP SUM MINUS INCENTIVE CONTRACT TABLE.

CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTION OF WORK OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLE, OR THE ENTIRE PROJECT IF NOT OTHERWISE LISTED.

UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE AT THEIR FINAL DESIGN WIDTH WITH ALL MARKINGS, RPM'S, AND SAFETY FEATURES INSTALLED, ALONG WITH NO RESTRICTIONS WITHIN 2 FEET OF THE EDGE LINE ON THE SHOULDERS.

EXTENSIONS OF TIME WILL BE FOR CALENDAR DAYS AND CALCULATED IN ACCORDANCE WITH C&MS 108.06 EXCEPT AS NOTED BELOW.

FOR THE WORK ITEMS ON THE LONGEST PATH OF ACTIVITIES DRIVING THE COMPLETION DATES FOR THE CRITICAL WORK SHOWN IN THE LUMP SUM MINUS INCENTIVE CONTRACT TABLE, TABLE 108.06-1 IS REVISED TO THE FOLLOWING:

TABLE 108.06-1 (MODIFIED)

MONTH	NUMBER OF WORKDAYS LOST DUE TO WEATHER
DECEMBER	6
JANUARY	8
FEBRUARY	8
MARCH	7
APRIL	6

LUMP SUM MINUS INCENTIVE CONTRACT TABLE

DESCRIPTION OR LOCATION OF CRITICAL WORK	COMPLETION DATE	LUMP SUM INCENTIVE $	DISINCENTIVE PER DAY $
COMPLETE CONSTRUCTION TO THE POINT WHERE TRAFFIC IS IN ITS PERMANENT CONFIGURATION ON INTERMEDIATE COURSE WITH TEMPORARY MARKINGS AND ALL NECESSARY SIGNAGE	10/1/2026	$600,000	$12,000

GENERAL NOTES

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER ARM
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.16A TOTAL 577

FRA-70-00.00

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 1/27/2025 TIME: 6:00:03 PM USER: AMerrill
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ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF 2 LANE(S) OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC, AND TEMPORARY SURFACES USING ITEMS 411 AND 614.

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

HOLIDAYS

NEW YEARS (OBSERVED)	GENERAL/REGULAR ELECTION DAY (NOV)
MEMORIAL DAY	THANKSGIVING
FOURTH OF JULY (OBSERVED)	CHRISTMAS (OBSERVED)
LABOR DAY	

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR SPECIAL	TIME ALL LANES MUST BE OPEN FOR TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (GEN./REG. ELECTION)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT.

LANE CLOSURES AND RESTRICTIONS SHALL ADHERE TO THE TIMES LISTED IN THE LANE VALUE CONTRACT TABLES. THE MAXIMUM ALLOWABLE CLOSURE LENGTH IS 2 MILES AT ANY GIVEN TIME. CLOSURES OR RESTRICTIONS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF WORKING HOURS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR APPROVED BY THE ENGINEER. LANE CLOSURES OR RESTRICTIONS SHALL BE LIMITED TO AREAS WHERE WORK IS BEING PERFORMED. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAME SET FORTH IN THE TABLE BELOW TO INFORM THE OFFICE OF COMMUNICATIONS. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SET UP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

NOTICE OF TRAFFIC RESTRICTIONS (CONT'D)

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LISTS THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE OF CLOSURE SIGN

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

NOTIFICATION TIME FRAME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO OFFICE OF COMMUNICATION AND OFFICE OF PERMITS	SIGN DISPLAY TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	N/A
	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE	N/A
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION	N/A

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME FRAME TABLE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO EXECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

ALTERNATIVE MAINTENANCE OF TRAFFIC PLANS

IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATIVE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE ODOT DISTRICT CONSTRUCTION ENGINEER.

REMOVAL OF LOGO SIGNS

LOGO SIGNS (WHICH INCLUDE ESTABLISHMENTS FOR GAS, FOOD, LODGING, CAMPING, AND ATTRACTIONS) ARE THE PROPERTY OF OHIO LOGOS, INC. AND ARE NOT TO BE REMOVED OR REPLACED BY ODOT STAFF OR BY CONTRACTORS WORKING FOR ODOT. THE CONTRACTOR SHALL NOTIFY OHIO LOGOS (TOLL-FREE 1-800-860-LOGO) AT LEAST 30 DAYS PRIOR TO THE DATE OF DESIRED REMOVAL.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 1.5 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM 618, RUMBLE STRIPES, EDGE LINES (ASPHALT CONCRETE)

RUMBLE STRIPES ARE DEFINED AS MILLED LONGITUDINAL RUMBLE STRIPS SUPPLEMENTED BY THE RELATED LONGITUDINAL PAVEMENT MARKING. THE MARKING ARE APPLIED IN THE SAME LOCATION SUCH THAT THE PAVEMENT MARKING MATERIAL CONFORMS TO THE GROOVED CONTOURS OF THE MILLED RUMBLE STRIPS

ALL COST ASSOCIATED WITH THE INSTALLATION OF THE RUMBLE STRIPES SHALL BE INCLUDED IN UNIT PRICE BID PER MILE OF ITEM 618 - RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)

AN ESTIMATED QUANTITY OF 20.45 MILES HAS BEEN CARRIED TO THE GENERAL SUMMARY.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 1500 M. GAL.

ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE BARRIER AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS, SEE SCD RM-4.1.

PORTABLE STEEL BARRIER IS AN APPROVED ALTERNATIVE TO PORTABLE CONCRETE BARRIER. FOR INFORMATION ON APPROVED VENDORS, SEE THE APPROVED PRODUCTS LIST MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING.

PORTABLE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN.

ITEM 622, PORTABLE BARRIER PLACEMENT

DURING PLACEMENT OF THE PORTABLE BARRIER, TRAFFIC WILL BE PROHIBITED FROM OCCUPYING THE TRAVEL LANE ADJACENT TO THE BARRIER. THE BARRIER WILL BE PLACED AT NIGHT PER THE WORK HOUR RESTRICTION NOTE AND IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE MAP. THE CLOSURE OF THE ADJACENT LANE WILL BE PER STANDARD DRAWING MT-95.30.

THE CONTRACTOR WILL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL SEVEN (7) DAYS IN ADVANCE OF THE PLANNED LANE CLOSURE. WORK WILL NOT BEGIN UNTIL APPROVAL OF THE PLANS HAS BEEN GRANTED.

WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER	COUNTY & ROUTE	DIRECTION
WZ-35837	FRA-70	EB
WZ-35837	FRA-70	WB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WORK ZONE SPEED ZONES (WZSZS) (CONT'D)

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
180 SIGN MNTH

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-1) SIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11-H5A-48. SIGNS USED ON THE RAMPS SHALL BE R11-H5A-24. R11-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A) (CONT'D)

THE R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 18 EACH

642-28 EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY

EXCAVATION FOR MAINTAINING TRAFFIC 7695 CU FT

EMBANKMENT FOR MAINTAINING TRAFFIC 5983 CU FT

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
WILLIAMS STRUCTUREPOINT INC

DESIGNER
AVP

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.18 TOTAL 577

FRA-70-00.00

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ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON TRAFFIC SCD MT-100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.06, ARE WAIVED AND USED MATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE, AND SHOULD BE LOCATED AT LEAST 30 FEET (PREFERABLY 40 FEET) FROM THE EDGE OF PAVEMENT WHEN POSSIBLE. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED.

WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A PREQUALIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS SHALL BE TRAINED IN ACCORDANCE WITH C&MS 614.03, SHALL HAVE SUCCESSFULLY COMPLETED ODOT ADMINISTERED WTS TESTING (AND RE-TESTING WHEN APPLICABLE) AND BE LISTED ON THE ODOT PREQUALIFIED WTS ROSTER. PREQUALIFICATION EXPIRES EVERY 5 YEARS. RE-TESTING SHALL BE SUCCESSFULLY REPEATED EVERY 5 YEARS TO REMAIN PREQUALIFIED.

THE NAME OF THE PREQUALIFIED WTS AND RELATED 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7), THE CONTRACTOR MAY DESIGNATE AN ALTERNATE (SECONDARY) WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY; HOWEVER, THE PRIMARY WTS SHALL REMAIN THE POINT OF CONTACT AT ALL TIMES. ANY ALTERNATE (SECONDARY) WTS IS SUBJECT TO THE SAME TRAINING, PREQUALIFICATION AND OTHER REQUIREMENTS OUTLINED WITHIN THIS PLAN NOTE. AT ALL TIMES THE ENGINEER, OR ENGINEER'S REPRESENTATIVES, MUST BE INFORMED OF WHO THE PRIMARY WTS (AND SECONDARY WTS, IF APPLICABLE) IS AT THE CURRENT TIME.

THE WTS POSITION HAS THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE TRAFFIC MANAGEMENT PLAN (TMP), MONITORING THE SAFETY AND MOBILITY OF THE ENTIRE WORK ZONE, AND CORRECTING TEMPORARY TRAFFIC CONTROL (TTC) DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE WTS, AND ALTERNATE WTS WHEN ON DUTY, SHALL HAVE SUFFICIENT AUTHORITY TO EFFECTIVELY CARRY OUT THE IDENTIFIED WTS RESPONSIBILITIES AND DUTIES. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. *BE AVAILABLE ON A 24-HOUR PER DAY BASIS.*
2. *BE ON SITE FOR ALL EMERGENCY TTC NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF, AND EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TTC DEVICES.*

WORKSITE TRAFFIC SUPERVISOR (CONT'D)

3. *ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TTC MANAGEMENT IS DISCUSSED.*
4. *BE AVAILABLE ON SITE FOR OTHER MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST.*
5. *BE AWARE OF ALL EXISTING AND PROPOSED TTC OPERATIONS OF THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS, AND ENSURE COORDINATION OCCURS BETWEEN THEM TO ELIMINATE CONFLICTING TEMPORARY AND/OR PERMANENT TRAFFIC CONTROL.*
6. *COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). THE WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE LEOS ARE ON THE PROJECT.*
7. *COORDINATE AND FACILITATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS THE WORK ZONE TTC FOR IMPLEMENTING THE PHASE SWITCH. SUBMIT A WRITTEN DETAIL OF MOT OPERATIONS AND SCHEDULE OF EVENTS TO IMPLEMENT THE SWITCH BETWEEN PHASE PLANS TO THE ENGINEER 5 CALENDAR DAYS PRIOR TO THIS MEETING.*
8. *BE PRESENT, ON SITE FOR, AND INVOLVED WITH, EACH TTC SET UP/TAKE DOWN AND EACH PHASE CHANGE IN ACCORDANCE WITH C&MS 614.03.*
9. *ON A CONTINUAL BASIS ENSURE THAT THE TTC ZONE AND ALL RELATED DEVICES ARE INSTALLED, MAINTAINED AND REMOVED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.*
10. *ON A CONTINUAL BASIS FACILITATE CORRECTIVE ACTION(S) NECESSARY TO BRING DEFICIENT TTC ZONES AND ALL RELATED DEVICES INTO COMPLIANCE WITH CONTRACT DOCUMENTS IN THE TIMEFRAME DETERMINED BY THE ENGINEER.*
11. *INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TTC DEVICES AND TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, PERFORM ONE WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:*

   A. INITIAL TTC SETUP (DAY AND NIGHT REVIEW).

   B. DAILY TTC SETUP AND REMOVAL.

   C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TTC SETUP.

   D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA AND WITHIN THE INFLUENCE AREA(S) APPROACHING THE WORK ZONE.

   E. REMOVAL OF TTC DEVICES AT THE END OF A PHASE OR PROJECT.

   F. ALL OTHER EMERGENCY TTC NEEDS.

WORKSITE TRAFFIC SUPERVISOR (CONT'D)

12. *COMPLETE THE DEPARTMENT APPROVED (CA-D-8) WITHIN GOFORMZ AFTER EACH INSPECTION AS REQUIRED IN # 11 AND SUBMIT IT TO THE ENGINEER BY THE END OF THE WORKDAY IN WHICH THE INSPECTION OCCURRED. THE CA-D-8 INCLUDES A CHECKLIST OF ALL TTC MAINTENANCE ITEMS TO BE REVIEWED. CONTACT GOFORMZ.HELP@DOT.OHIO.GOV TO OBTAIN A USER ACCOUNT. ANY DEFICIENCIES OBSERVED SHALL BE NOTED ON THE CA-D-8, ALONG WITH RECOMMENDED OR COMPLETED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THE CURRENT CA-D-8 DOCUMENT CAN BE FOUND ON THE OFFICE OF CONSTRUCTION ADMINISTRATION'S INSPECTION FORMS WEBSITE.*
13. *HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.*

THE DEPARTMENT WILL DEDUCT:

A. THE PRORATED DAILY AMOUNT OF ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY IN WHICH THE WTS FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. THE PRORATED DAILY AMOUNT WILL BE EQUAL TO THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC DIVIDED BY THE DIFFERENCE BETWEEN THE ORIGINAL COMPLETION DATE AND THE FIRST DAY OF WORK, IN CALENDAR DAYS.

B. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A FAILURE TO PERFORM WTS DUTIES REOCCURS OR A TTC ISSUE IS IDENTIFIED IN THE FIELD AND IS NOT CORRECTED IN THE GIVEN TIMEFRAME PER THE ENGINEER. DEDUCTION B SHALL NOT APPLY TO SITUATIONS COVERED BY DEDUCTION C.

C. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A LANE OR RAMP IS BLOCKED (FULLY OR PARTIALLY) WITHOUT TTC, AS DETERMINED BY THE ENGINEER. THIS DEDUCTION SHALL BE IN ADDITION TO ANY OTHER DISINCENTIVES ESTABLISHED FOR UNAUTHORIZED LANE USE.

FOR DAYS IN WHICH MORE THAN ONE DEDUCTION LISTED ABOVE OCCUR, THE HIGHEST DEDUCTION AMOUNT WILL APPLY.

IF THREE OR MORE TOTAL DAYS RESULT IN ISSUES DESCRIBED IN DEDUCTION B OR C ABOVE, THE PRIMARY WTS (AND ANY ALTERNATE WTS, IF APPLICABLE) SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05. UPON REMOVAL THE ENGINEER SHALL NOTIFY ODOT CENTRAL OFFICE (WTSPREQUALIFICATION@DOT.OHIO.GOV) TO REGISTER A REMOVAL AT THE PROJECT LEVEL AGAINST THE STATEWIDE PREQUALIFICATION FOR THE PRIMARY WTS (AND ALTERNATE WTS, IF APPLICABLE). ACCUMULATION OF THREE PROJECT LEVEL REMOVALS (FROM ANY PROJECTS STATEWIDE) SHALL CAUSE STATEWIDE DISQUALIFICATION FOR ANY FORMERLY PREQUALIFIED WTS. A WTS (AND ALTERNATE WTS, IF APPLICABLE) MAY BE IMMEDIATELY AND CONCURRENTLY REMOVED FROM THE WORK AT THE PROJECT LEVEL IN ACCORDANCE WITH C&MS 108.05 AND DISQUALIFIED STATEWIDE FROM THE ODOT PREQUALIFIED WTS ROSTER (REGARDLESS OF THE NUMBER OF PROJECT LEVEL REMOVALS), AS WELL AS BEING SUBJECT TO OTHER POTENTIAL CONSEQUENCES, IN CASES OF FALSIFIED, DISHONEST OR OTHERWISE UNETHICAL ACTIVITY OR DOCUMENTATION.

PAYMENT FOR THE ABOVE REQUIREMENTS, RESPONSIBILITIES AND DUTIES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, ONE WAY, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH APRIL 1.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, ONE WAY, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

RESURFACING OF THE TRANSITION AREAS SHALL BE PERFORMED AT THE TIME THAT THE SURFACE COURSE IS BEING APPLIED TO THE ENTIRE PROJECT. PRIOR TO APPLICATION OF THE SURFACE COURSE ON THE PROJECT, THE EXISTING PAVEMENT WITHIN THE TRANSITION AREA SHALL BE REMOVED TO A DEPTH NECESSARY TO REACH THE LEVEL OF THE INTERMEDIATE COURSE OF THE PAVEMENT, AS DETERMINED BY THE ENGINEER.

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND, ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

OBJECT MARKERS SHALL BE INSTALLED ON ALL TEMPORARY AND PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. GUARDRAIL-MOUNTING OF OBJECT MARKERS SHALL BE MADE BY INSTALLING THE OBJECT MARKERS ON THE EXTENSION BLOCKS RATHER THAN DIRECTLY ONTO THE GUARDRAIL ITSELF. OBJECT MARKERS SHALL CONFORM TO C&MS 614.03 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET WITH A 25 FOOT OFFSET FROM THE BARRIER REFLECTORS.

ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN MOT SUBSUMMARY AND CARRIED TO THE GENERAL SUMMARY

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEM(S).

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT LLC
DESIGNER
AVP
REVIEWER
AJL 08/23/24
PROJECT ID
116949

FRA-70-00.00
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DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE ESTIMATED QUANTITIES ARE SHOWN IN MOT SUBSUMMARY AND CARRIED TO THE GENERAL SUMMARY

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) MAY BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:
- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION;

AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT'D)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:
- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
- THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR
- OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT'D)

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR
FOR ASSISTANCE 2,000 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

WORK ZONE QUEUE DETECTION WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE QUEUE DETECTION WARNING SYSTEM (WZQDWS) AS PER SUPPLEMENTAL SPECIFICATION 896.

THE INITIAL LOCATIONS OF THE PORTABLE NON-INTRUSIVE TRAFFIC SENSOR SHALL BE AT THE BEGINNING OF THE TAPER, 0.5 MILES FROM THE TAPER, AT 1 MILE FROM THE TAPER AND AT 1.5 MILES FROM THE TAPER. THE INITIAL LOCATION OF PCMS SHALL BE AT 2.5 MILES FROM THE TAPER. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. THE LOCATIONS AND PLACEMENT OF THE SENSORS AND PCMSS SHALL BE DISCUSSED AT THE PRE-MAINTENANCE OF TRAFFIC MEETING. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

THE FOLLOWING TRAFFIC SENSOR THRESHOLDS AND PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) MESSAGES SHALL BE USED:

1. GREATER THAN OR EQUAL TO 50 MPH - USE FOUR CORNER FLASHING CAUTION MODE
2. BETWEEN 50 MPH AND 25 MPH - TRAFFIC AHEAD XX MPH / SLOW DOWN
3. BELOW OR EQUAL TO 25 MPH - TRAFFIC AHEAD XX MPH / PREPARE TO STOP

FOUR CORNER FLASHING CAUTION MODE SHALL CONSIST OF THE USE OF ONE ASTERISK IN EACH CORNER OF THE PCMS DISPLAY (4 TOTAL ASTERISKS).

XX SHALL BE ROUNDED UP TO THE NEAREST MULTIPLE OF 5 MPH MINUS 1. OCCUPANCY MAY BE DIRECTED TO BE USED BASED ON CERTAIN TRAFFIC CONDITIONS AND SCENARIOS. ODOT WILL DIRECT THE CONTRACTOR OF THE THRESHOLDS TO BE USED FOR THOSE AREAS WHERE OCCUPANCY IS DIRECTED TO BE USED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 896, PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I ASSUMING 8 SENSORS FOR 12 MONTHS	96 SIGN MONTH
ITEM 896, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN ASSUMING 2 PCMS SIGNS FOR 12 MONTHS	24 SIGN MONTH

TEMPORARY QUEUE LOCATION: ON IR 270 SOUTHBOUND SIDE, OUTSIDE SHOULDER, JUST NORTH OF TRABUE RD OVERHEAD BRIDGE

WORK ZONE EGRESS WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE EGRESS WARNING SYSTEM (WZEWS) AS PER SUPPLEMENTAL SPECIFICATION 829.

THE PROBABLE INITIAL LOCATIONS OF THE WZEWS DEVICES ARE SHOWN ON THE MOT PLAN. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. PLACEMENT, OPERATION, AND MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

ALL COSTS FOR RELOCATION OF PORTABLE BARRIER, INSTALLATION, REPAIR, REPLACEMENT, AND REMOVAL OF IMPACT ATTENUATORS, GRADING FOR ACCESS DRIVES AND RELATED COSTS SHALL BE INCLUDED IN THE LUMP FOR ITEM 614 MAINTAINING TRAFFIC

ITEM 829, WORK ZONE EGRESS WARNING SYSTEM
24 SIGN MONTH

ITEM 614, WORK ZONE PAVEMENT MARKINGS, CLASS III, 642 PAINT

THIS ITEM SHALL BE UTILIZED ON THE FINAL SURFACE COURSE WITHIN 30 DAYS OF THE FINAL PLACEMENT OF WORK ZONE CLASS I, 648 PAVEMENT MARKINGS PER ODOT CMS 614.11. THE FOLLOWING ITEMS AND QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	26.59 MILE
ITEM 614 WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	27.48 MILE
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS III, 6", 642 PAINT	10738 FT
ITEM 614 WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	5251 FT

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
AVP

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.20 TOTAL 577

FRA-70-00.00

MODEL: Sheet 4 (MOT Notes) PAPERSIZE: 34x22 (in.) DATE: 1/27/2025 TIME: 2:50:40 PM USER: AMerrill
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ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 1:
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 2A:
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 2B:
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 3:
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 4:

THESE ITEMS SHALL BE UTILIZED FOR THE PAVEMENT REPAIRS NEEDED DURING THIS CONSTRUCTION PROCESS. ALL AREAS TO BE REPAIRED SHALL BE LOCATED BY THE ENGINEER. IT IS LIKELY THAT REPAIRS WILL BE NEEDED PRIOR TO EACH PHASE SWITCH. GREAT CARE SHALL BE TAKEN TO MAINTAIN THE EXISTING PAVEMENT CROSS SLOPE AS WELL AS ALL LONGITUDINAL SLOPES. THE TYPE OF REPAIR SHALL BE DETERMINED BY THE PROJECT ENGINEER. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED FOR MAINTENANCE OF TRAFFIC FOR PAVEMENT REPAIRS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

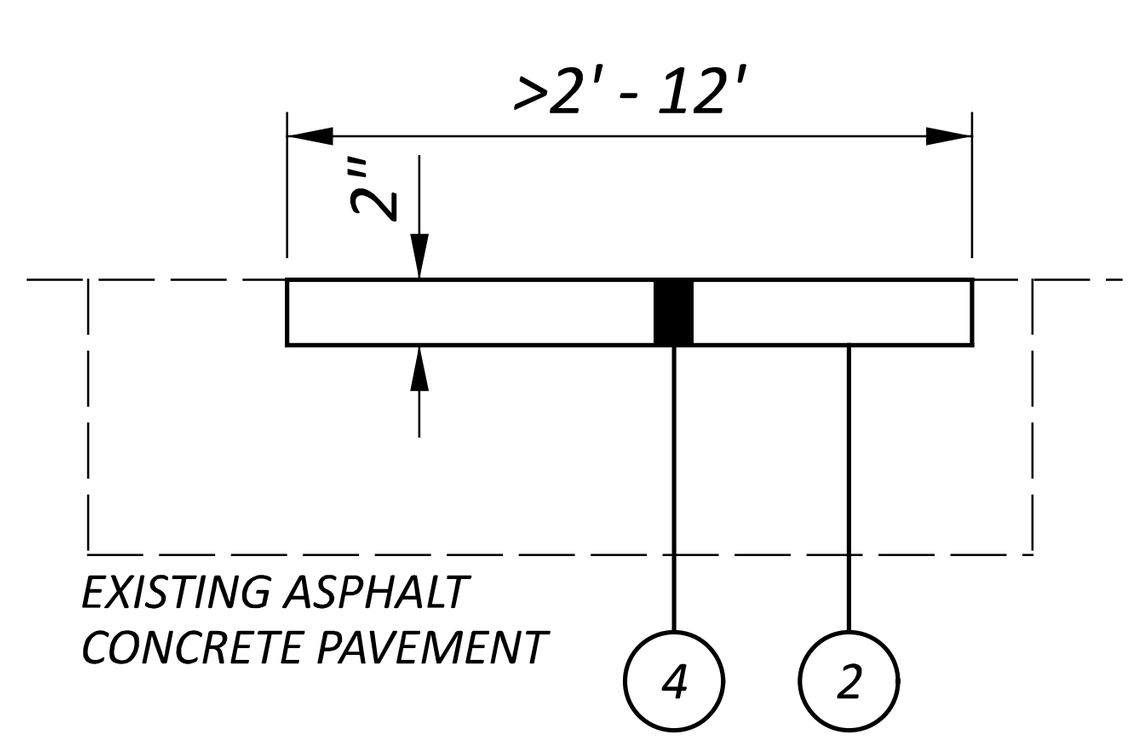
TYPE 1 IS TO BE USED WHEN YOU NEED TO MILL & FILL AN AREA OF VARYING LENGTH AND HAVE AN AVERAGE WIDTH OF NOT LESS THAN 2 FEET.

TYPE 2A IS TO BE USED FOR FIXING THE LONGITUDINAL JOINT ISSUES OF VARYING LENGTH AND HAVE A CONSISTENT WIDTH OF 2 FEET.

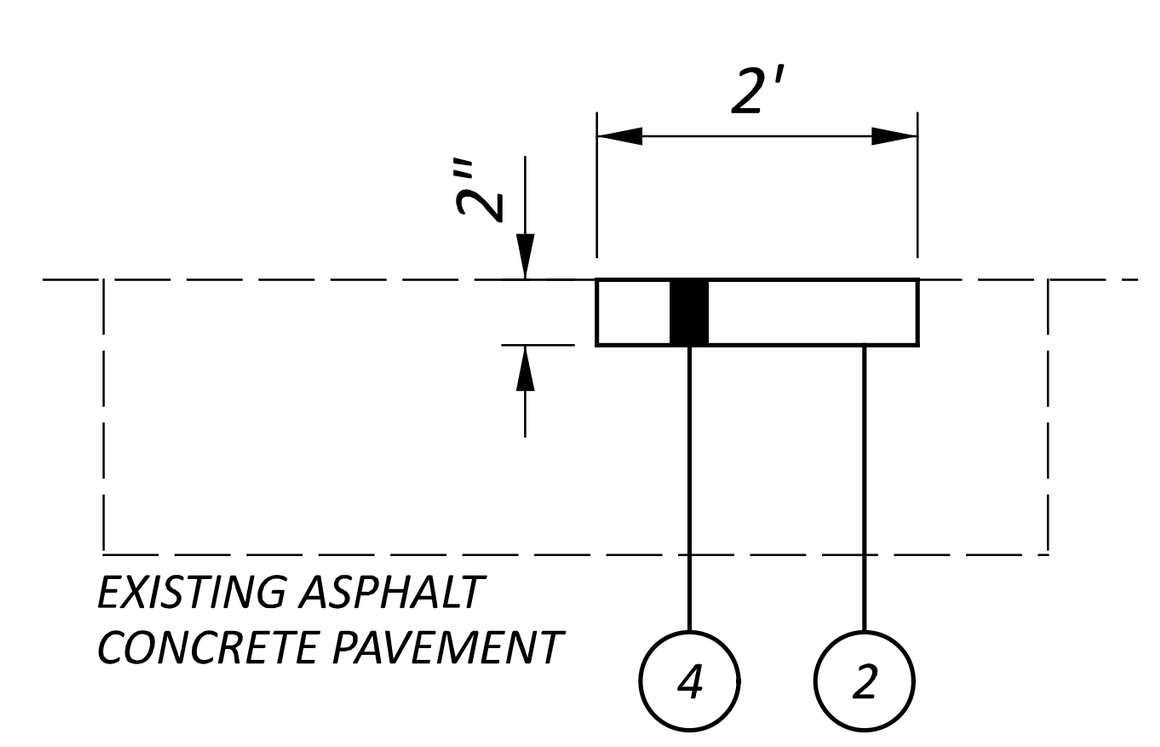
TYPE 2B SHALL BE USED FOR REMOVING THE EXISTING RUMBLE STRIPS ALONG I-70 WESTBOUND DURING PRE-PHASE 1 CONSTRUCTION.

TYPE 3 IS TO BE USED FOR DEEPER REPAIRS OF VARYING LENGTH AND WILL HAVE AN AVERAGE WIDTH OF NOT LESS THAN 4 FEET.

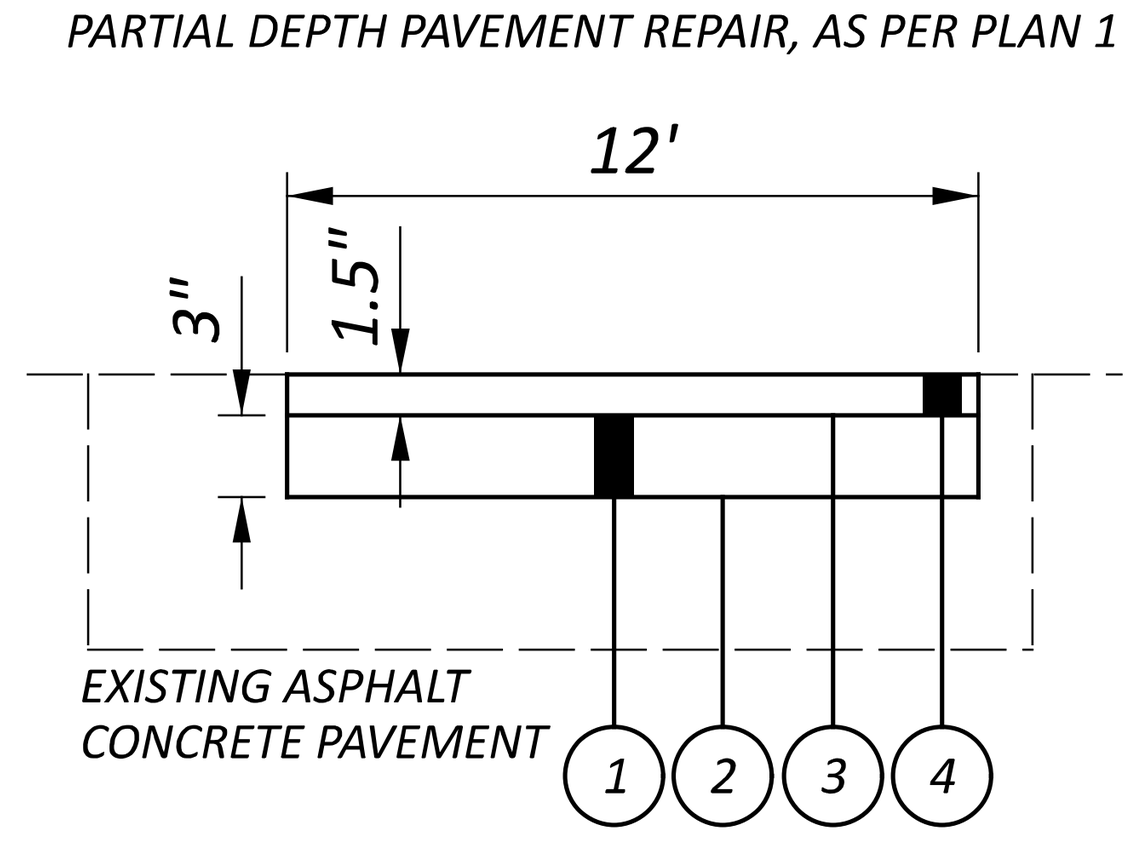
TYPE 4 IS TO BE USED FOR COMPOSITE PAVEMENT REPAIRS OF VARYING LENGTH AND WILL HAVE AN AVERAGE WIDTH OF NOT LESS THAN 3 FEET. ALL COSTS ASSOCIATED WITH REMOVING AND REPLACING PAVEMENT AND TACK COAT FOR THE REPAIRS SHALL BE INCIDENTAL TO ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE "X".



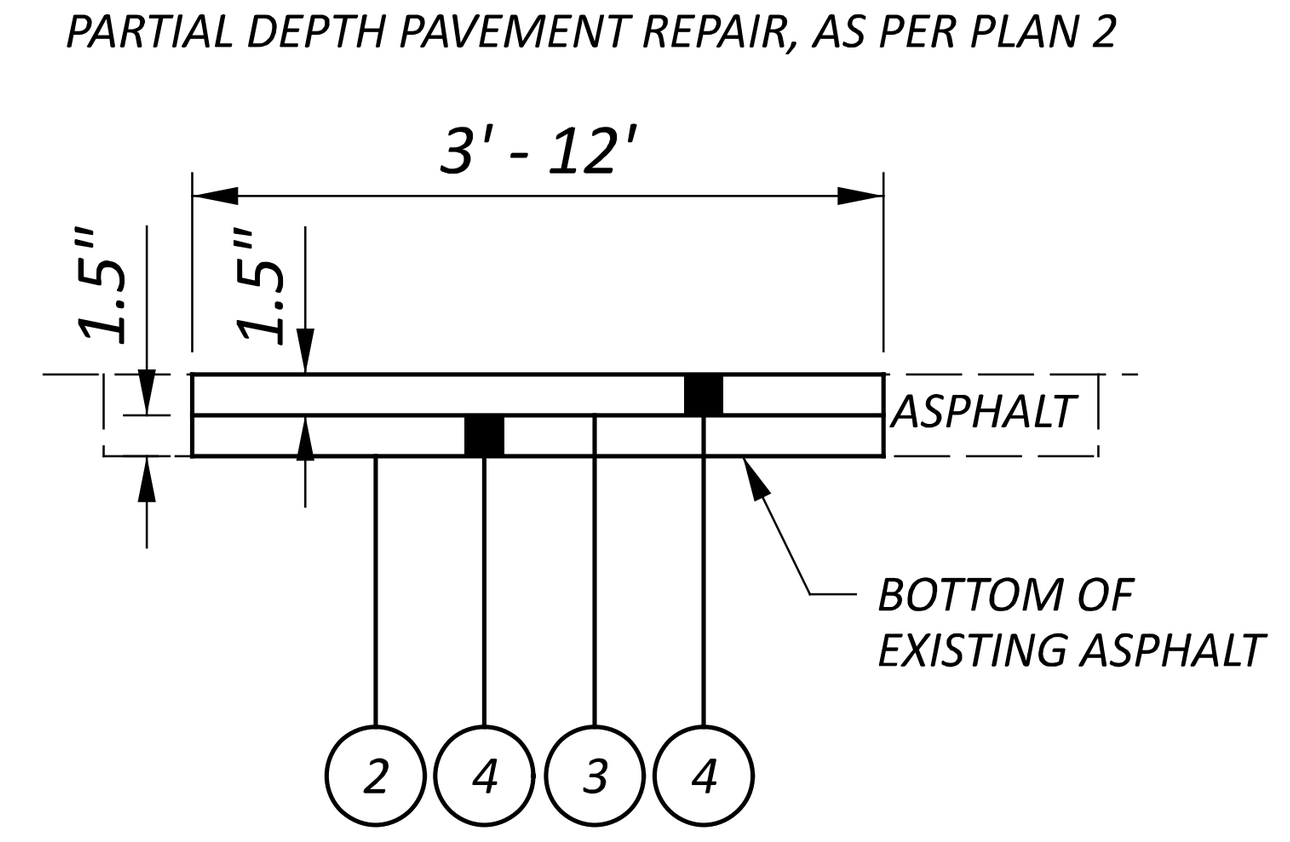
TYPE 1 DETAIL
PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN 1



TYPE 2A/2B DETAIL
PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN 2



TYPE 3 DETAIL
PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN 3



TYPE 4 DETAIL
PARTIAL DEPTH PAVEMENT REPAIR, AS PER PLAN 4

LEGEND:

- (1) *ITEM 301 - ASPHALT CONCRETE BASE, PG64-22*
- (2) *ITEM 407 - TACK COAT @0.075 PER SY*
- (3) *ITEM 407 - TACK COAT FOR INTERMEDIATE @0.05 PER SY*
- (4) *ITEM 441 - TYPE 1 (AS DESCRIBED IN C&MS 615.05)*

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 1 = 200 SY
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 2A= 200 SY
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 2B = 13800 SY
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 3 = 250 SY
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, APP, TYPE 4 = 250 SY

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 72 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN (CONT'D)

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.) THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER
PLAN 48 SIGN MONTH ASSUMING 4 PCMS
SIGN(S) FOR 12 MONTH(S)

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

COORDINATION WITH ADJACENT PROJECTS

THE CONTRACTOR SHALL BE ADVISED THAT THE FRANKLIN COUNTY ENGINEER'S OFFICE RENNER ROAD PROJECT, FROM ALTON-DARBY CREEK ROAD TO SPINDLER ROAD MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF OF THIS PROJECT DURING THE 2025 CALENDAR YEAR. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL RECEIVE DAILY APPROVAL FROM THE ENGINEER PRIOR TO COMMERCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULE, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER.

PRE-MAINTENANCE OF TRAFFIC MEETING

A PRE-MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD (MINIMUM 14 WORK DAYS) PRIOR TO WORK BEGINNING OR ANY CHANGE OF PHASING. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER (d06.mot@dot.ohio.gov) AS WELL AS THE CONTRACTOR AND ANY OF HIS SUB-CONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL. FOR COLUMBUS SECTIONS OF ROADWAY, ALSO INCLUDE THE TEMPORARY CONTROL COORDINATOR (614-645-6269 OR 614-645-5845) FROM THE CITY OF COLUMBUS TRANSPORTATION DIVISION.

NOTIFICATION OF CONSTRUCTION INITIATION

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.OHIO.GOV, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.OHIO.GOV AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION VIA EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

LANE VALUE CONTRACT TABLE

THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME A LANE/SHOULDER/RAMP IS CLOSED BY THE CONTRACTOR'S ACTION WHILE NOT OTHERWISE PERMITTED BY THE LANE VALUE CONTRACT TABLE. SEE SHEET 21A FOR APPLICABLE TABLES.

SEQUENCE OF CONSTRUCTION

THE PROJECT WILL RECONSTRUCT THE PORTION OF I-70 BETWEEN MADISON COUNTY LINE (JUST EAST OF BRIDGE OVER BIG DARBY CREEK) AND JUST WEST OF HILLIARD ROME ROAD INTERCHANGE. THE PROJECT IS DIVIDED INTO THREE (3) PHASES. PRE-PHASE 1 IS THE PREPARATION PHASE THAT INCLUDES TEMPORARY PAVEMENT CONSTRUCTION IN ORDER TO BEGIN PHASE 1. PHASE 1 IS THE CONSTRUCTION OF I-70 EASTBOUND SIDE AND RAMP E OF HILLIARD-ROME ROAD INTERCHANGE. PHASE 2 IS THE CONSTRUCTION OF I-70 WESTBOUND SIDE AND RAMP A OF HILLIARD-ROME ROAD INTERCHANGE.
PHASES 1 AND 2 INCLUDE STEPS. STEPS WERE USED TO MODIFY THE TRAFFIC CONTROL SET UP IN ONE LOCATION WITHIN THE PHASE.

PRE-PHASE 1

TRAFFIC:

1. *KEEP ALL TRAFFIC ON THE EXISTING PATTERN*
2. *CLOSE INSIDE LANE OF I-70 WESTBOUND SIDE BETWEEN PLAIN CITY-GEORGESVILLE ROAD INTERCHANGE AND HILLIARD-ROME ROAD INTERCHANGE DURING ALLOWABLE HOURS*

CONSTRUCTION:

1. *TEMPORARY PAVEMENT AND SAFETY EDGE ON THE INSIDE PORTION OF I-70 WESTBOUND SIDE BETWEEN BRIDGE OVER BIG DARBY CREEK AND JUST WEST OF HILLIARD-ROME ROAD INTERCHANGE*
2. *SAFETY EDGE ON THE OUTSIDE PORTION OF I-70 WESTBOUND SIDE BETWEEN BRIDGE OVER BIG DARBY CREEK AND JUST WEST OF HILLIARD-ROME ROAD INTERCHANGE*
3. *SINGLE LANE CROSSOVER JUST EAST OF PLAIN CITY-GEORGESVILLE INTERCHANGE FOR PHASES 1 AND 2*
4. *SINGLE LANE CROSSOVER JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK FOR PHASE 1*
5. *SINGLE LANE CROSSOVER JUST WEST OF I-70 AND HILLIARD-ROME RD INTERCHANGE*
6. *EMERGENCY PULL-OFF ON I-70 WESTBOUND SIDE JUST WEST OF JONES ROAD BRIDGE*
7. *DOUBLE LANE CROSSOVER JUST EAST OF HILLIARD-ROME ROAD INTERCHANGE FOR PHASES 1 AND 2*
8. *BRIDGE TERMINAL ASSEMBLY, TYPE 1, TERMINAL ASSEMBLY TYPE E, AND TEMPORARY GUARDRAIL AT SOUTHWEST CORNERS OF BRIDGES OVER BIG DARBY CREEK, HAMILTON DITCH, AND GROFF DITCH*
9. *TEMPORARY PAVEMENT ON THE OUTSIDE OF RAMP E AT I-70 AND HILLIARD-ROME ROAD INTERCHANGE*

PRE-PHASE 2

TRAFFIC:

1. *KEEP ALL TRAFFIC ON THE EXISTING PATTERN*
2. *REMOVE PORTABLE BARRIER AT ALL CROSSOVER LOCATIONS AND REPLACE IT WITH BARRELS*
3. *INTERIM COMPLETITION DATE: 11/01/2025*

PHASE 1 STEP A

TRAFFIC:

1. *REDUCE NUMBER OF LANES FROM THREE TO TWO ON I-70 EASTBOUND SIDE BETWEEN JUST EAST OF PLAIN CITY-GEORGESVILLE ROAD INTERCHANGE AND EAST OF HILLIARD-ROME ROAD INTERCHANGE BY CLOSING INSIDE LANE*
2. *SHIFT TWO I-70 WESTBOUND LANES TO OUTSIDE OF I-70 WESTBOUND SIDE*
3. *REDUCE NUMBER OF LANES FROM THREE TO TWO ON I-70 EASTBOUND SIDE BETWEEN JUST WEST OF PLAIN CITY-GEORGESVILLE ROAD INTERCHANGE AND JUST EAST OF HILLIARD-ROME ROAD INTERCHANGE BY CLOSING OUTSIDE LANE*
4. *SHIFT INSIDE I-70 EASTBOUND LANE TO I-70 WESTBOUND SIDE JUST EAST OF PLAIN CITY-GEORGESVILLE ROAD INTERCHANGE*
5. *SHIFT MIDDLE I-70 EASTBOUND LANE TO INSIDE OF I-70 EASTBOUND SIDE JUST EAST BEFORE THE BRIDGE OVER BIG DARBY CREEK, THEN SHIFT TO INSIDE OF I-70 WESTBOUND SIDE JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK UTILIZING INSIDE SHOULDER AND TEMPORARY PAVEMENT*
6. *SHIFT TWO I-70 EASTBOUND LANES BACK TO I-70 EASTBOUND SIDE JUST EAST OF HILLIARD-ROME ROAD INTERCHANGE*
7. *SHIFT RAMP E TO OUTSIDE TEMPORARY PAVEMENT*

CONSTRUCTION:

1. *I-70 EASTBOUND SIDE BETWEEN BRIDGE OVER BIG DARBY CREEK AND JUST WEST OF HILLIARD-ROME ROAD INTERCHANGE, EXCEPT INSIDE PORTION JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK*
2. *RAMP A AT I-70 AND HILLIARD-ROME ROAD INTERCHANGE*
3. *INSIDE PORTION OF RAMP E OF I-70 AND HILLIARD-ROME ROAD INTERCHANGE*

PHASE 1 STEP B

TRAFFIC:

1. *I-70 WESTBOUND TRAFFIC REMAINS UNCHANGED*
2. *SHIFT MIDDLE I-70 EASTBOUND LANE TO OUTSIDE OF I-70 EASTBOUND SIDE JUST BEFORE THE BRIDGE OVER BIG DARBY CREEK, THEN SHIFT TO INSIDE OF I-70 WESTBOUND SIDE JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK UTILIZING INSIDE SHOULDER AND TEMPORARY PAVEMENT*

CONSTRUCTION:

1. *INSIDE REMAINING PORTION OF I-70 EASTBOUND JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK*

PHASE 1 STEP C

TRAFFIC:

1. *SHIFT RAMP E TO INSIDE PROPOSED PAVEMENT*

CONSTRUCTION:

1. *OUTSIDE PORTION OF RAMP E*

PHASE 1 STEP D

TRAFFIC:

1. *I-70 WESTBOUND SIDE STAYS AS PHASE 1 STEP B*
2. *RESTRIPE I-70 EASTBOND SIDE AS PHASE 2 STEP A*

CONSTRUCTION:

1. *REMOVE SOME TEMPORARY PAVEMENT FOR SECOND CROSSOVER USED DURING PHASE 1*
2. *INSTALL TEMPORARY PAVEMENT FOR SECOND CROSSOVER TO BE USED DURING PHASE 2*

PHASE 2 STEP A

TRAFFIC:

1. *SHIFT TWO I-70 EASTBOUND LANES TO OUTSIDE OF I-70 EASTBOUND SIDE*
2. *SHIFT INSIDE I-70 WESTBOUND LANE TO I-70 EASTBOUND SIDE JUST EAST OF PLAIN CITY-GEORGESVILLE ROAD INTERCHANGE*
3. *SHIFT MIDDLE I-70 WESTBOUND LANE TO INSIDE OF I-70 WESTBOUND SIDE JUST BEFORE THE BRIDGE OVER BIG DARBY CREEK, THEN SHIFT TO INSIDE OF I-70 EASTBOUND SIDE JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK*
4. *SHIFT TWO I-70 WESTBOUND LANES BACK TO I-70 WESTBOUND SIDE JUST EAST OF HILLIARD-ROME ROAD INTERCHANGE*
5. *CLOSE RAMP A AT I-70 AND HILLIARD-ROME ROAD INTERCHANGE*

CONSTRUCTION:

1. *I-70 WESTBOUND SIDE BETWEEN BRIDGE OVER BID DARBY CREEK AND JUST WEST OF HILLIARD-ROME ROAD INTERCHANGE, EXCEPT INSIDE PORTION JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK*
2. *RAMP A AT I-70 AND HILLIARD-ROME ROAD INTERCHANGE*

PHASE 2 STEP B

TRAFFIC:

1. *I-70 EASTBOUND TRAFFIC REMAINS UNCHANGED*
2. *SHIFT MIDDLE I-70 WESTBOUND LANE TO OUTSIDE OF I-70 WESTBOUND SIDE JUST BEFORE THE BRIDGE OVER BIG DARBY CREEK, THEN SHIFT TO INSIDE OF I-70 EASTBOUND SIDE JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK*

CONSTRUCTION:

1. *INSIDE REMAINING PORTION OF I-70 WESTBOUND JUST EAST OF THE BRIDGE OVER BIG DARBY CREEK*

PHASE 2 STEP C

TRAFFIC:

1. *KEEP ALL TRAFFIC TO ITS PERMANENT PATTERN (EASTBOUND AND WESTBOUND SIDE)*

CONSTRUCTION:

1. *PLACE SURFACE COURCE FOR THE ENTIRE PROJECT LIMITS*
2. *FINAL COMPLETITION DATE: 7/01/2027*

MAINTENANCE OF TRAFFIC NOTES

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
AVP

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.22 | TOTAL 577

FRA-70-00.00

MODEL: Sheet 6 (MOT Notes) PAPERSIZE: 34x22 (in.) DATE: 1/26/2025 TIME: 1:12:18 PM USER: AMerrill
O:\2023\007711\C. Design\116949_FRA-70-0.00\400-Engineering\MOT\Sheets\116949_MN001.dgn

SHEET NO		REFERENCE NO	LOCATION	STATION		SIDE	PHASE	411	606	614	614	614	614	614	614	614	614	614	614	614	615	622	622
								STABILIZED CRUSHED AGGREGATE	ANCHOR ASSEMBLY, MGS TYPE E	SPECIAL - WORK ZONE GUARDRAIL	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER, ONE WAY, AS PER PLAN	BARRIER REFLECTOR, TYPE 1, ONE WAY	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	BARRIER REFLECTOR, TYPE 2, ONE WAY	OBJECT MARKER, ONE WAY	WORK ZONE LANE LINE, CLASS I, 6", 648	WORK ZONE EDGE LINE, CLASS I, 6", 648 (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 648 (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	WORK ZONE DOTTED LINE, CLASS I, 6", 648	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, UNANCHORED
				FROM	TO			CY	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	FT	SY	FT	FT
P.35		WYL-1	IR 70	1+00.00	8+50.00	RT	PRE-PHASE 1												0.14						
P.32	- P.33	TP-1	IR 70	796+72.00	803+05.00	MEDIAN	PRE-PHASE 1																1324		
P.35	- P.48	TP-2	IR 70	3+18.00	172+30.00	RT/LT	PRE-PHASE 1																10188		
P.44	- P.45	TP-3	IR 70	121+80.00	135+00.00	LT	PRE-PHASE 1																1922		
P.48	- P.52	TP-4	IR 70	174+59.00	220+28.00	LT	PRE-PHASE 1																2126		
P.52	- P.53	TP-5	IR 70	221+27.00	235+43.00	LT	PRE-PHASE 1																643		
P.53	- P.56	TP-6	IR 70	237+32.00	272+30.00	LT/RT	PRE-PHASE 1																4235		
P.55	- P.56	TP-7	RAMP E	260+83.00	279+04.00	RT	PRE-PHASE 1																2914		
P.57	- P.58	TP-8	IR 70	282+06.00	289+35.00	MEDIAN	PRE-PHASE 1																1621		
P.32	- P.33	AGG-1	IR 70	796+72.00	803+05.00	MEDIAN	PRE-PHASE 1	43																	
P.35	- P.48	AGG-2	IR 70	2+00.00	173+63.00	LT	PRE-PHASE 1	781																	
P.35		AGG-3	IR 70	3+18.00	9+95.00	RT/LT	PRE-PHASE 1	25																	
P.35	- P.48	AGG-4	IR 70	10+66.00	172+30.00	MEDIAN	PRE-PHASE 1	601																	
P.48	- P.51	AGG-5	IR 70	174.70.00	201+00.00	LT	PRE-PHASE 1	91																	
P.48	- P.52	AGG-6	IR 70	174+59.00	220+28.00	LT	PRE-PHASE 1	170																	
P.51	- P.52	AGG-7	IR 70	201+55.00	220+35.00	LT	PRE-PHASE 1	54																	
P.52	- P.53	AGG-8	IR 70	221+27.00	235+43.00	LT	PRE-PHASE 1	53																	
P.52	- P.55	AGG-9	IR 70	221+73.00	250+80.00	LT	PRE-PHASE 1	73																	
P.53	- P.55	AGG-10	IR 70	237+32.00	255+10.00	LT/RT	PRE-PHASE 1	66																	
P.55	- P.56	AGG-11	IR 70	255+64.00	272+30.00	M/LT	PRE-PHASE 1	72																	
P.55	- P.56	AGG-12	RAMP E	260+82.00	279+04.00	RT	PRE-PHASE 1	68																	
P.56		AGG-13	IR 70	264+88.00	273+83.00	LT	PRE-PHASE 1	31																	
P.57		AGG-14	IR 70	280+70.00	284+33.00	LT	PRE-PHASE 1	18																	
P.57		AGG-15	IR 70	282+06.00	285+12.00	MEDIAN	PRE-PHASE 1	23																	
P.57	- P.58	AGG-16	IR 70	287+73.00	289+35.00	MEDIAN	PRE-PHASE 1	11																	
P.32	- P.33	PB-1	IR 70	795+00.00	804+50.00	RT	PRE-PHASE 1				1		19			19									949
P.35		PB-2	IR 70	1+01.00	12+50.00	RT	PRE-PHASE 1				1		23			23									1146
P.55		PB-3	IR 70	252+00.00	258+60.00	RT	PRE-PHASE 1				1		14			14									661
P.55	- P.56	PB-4	RAMP E	260+50.00	279+50.00	RT	PRE-PHASE 1				1		38			38									1900
P.57	- P.58	PB-5	IR 70	281+00.00	289+50.00	RT	PRE-PHASE 1				1		17			17									850
P.32	- P.33	PB-6	IR 70	796+50.00	804+17.00	LT	PRE-PHASE 1				1		16			16									768
P.35	- P.36	PB-7	IR 70	7+00.00	18+50.00	LT	PRE-PHASE 1				1		24			24									1153
P.54	- P.55	PB-8	IR 70	247+50.00	259+50.00	LT	PRE-PHASE 1				1		24			24									1200
P.57	- P.58	PB-9	IR 70	282+00.00	290+55.00	LT	PRE-PHASE 1				1		18			18									855
P.66		WGR-1	IR 70	819+21.00	821+22.00	MEDIAN	PHASE 1A			200															
P.70		WGR-2	IR 70	41+77.00	42+77.00	MEDIAN	PHASE 1A			100															
P.72		WGR-3	IR 70	72+63.00	73+63.00	MEDIAN	PHASE 1A			100															
P.77		WGR-4	IR 70	136+70.00	137+70.00	MEDIAN	PHASE 1A			100															
P.80		WGR-5	IR 70	171+60.00	173+73.00	MEDIAN	PHASE 1A			212.5															
P.84		WGR-6	IR 70	218+18.00	220+31.00	MEDIAN	PHASE 1A			212.5															
P.88	- P.93	WGR-7	RAMP E	271+53.00	279+14.00	RT	PHASE 1A		1	787.5					16										
P.65	- P.89	WLL-1	IR 70	808+49.00	279+13.00	LT	PHASE 1A					245					5.55								
P.68	- P.89	WLL-2	IR 70	17+31.00	279+13.00	LT	PHASE 1A					218					4.96								
P.63	- P.64	WEL-1	IR 70	779+28.00	795+00.00	RT	PHASE 1A											0.60							
P.64		WEL-2	RAMP C/IR 70	792+52.00	797+65.00	RT	PHASE 1A											0.20							
P.65	- P.88	WEL-3	IR 70/RAMP E	799+44.00	279+70.00	RT/LT	PHASE 1A					1546						5.45							
P.65		WEL-4	IR 70	799+42.00	805+49.00	RT/LT	PHASE 1A					31						0.12							
P.65	- P.87	WEL-5	IR 70	804+83.00	253+85.00	LT	PHASE 1A											5.15							
P.66	- P.67	WEL-6	IR 70	821+22.00	9+97.00	LT	PHASE 1A											0.21							
TOTALS CARRIED TO SHEET P.26								2180	1	1712.5	9	2040	193		16	193	10.51	11.73	0.14				24973		9482

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.23 TOTAL 577

FRA-70-00.00

SHEET NO			REFERENCE NO	LOCATION	STATION		SIDE	PHASE	411	606	614	614	614	614	614	614	614	614	614	614	614	615	622	622
					FROM	TO			STABILIZED CRUSHED AGGREGATE	ANCHOR ASSEMBLY, MGS TYPE E	SPECIAL - WORK ZONE GUARDRAIL	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER, ONE WAY, AS PER PLAN	BARRIER REFLECTOR, TYPE 1, ONE WAY	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	BARRIER REFLECTOR, TYPE 2, ONE WAY	OBJECT MARKER, ONE WAY	WORK ZONE LANE LINE, CLASS I, 6", 648	WORK ZONE EDGE LINE, CLASS I, 6", 648 (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 648 (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	WORK ZONE DOTTED LINE, CLASS I, 6", 648	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, UNANCHORED
									CY	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	FT	SY	FT	FT
P.76	-	P.77	WEL-7	IR 70	121+80.00	135+00.00	LT	PHASE 1A											0.5							
P.87	-	P.89	WEL-8	IR 70	255+64.00	287+28.00	LT/RT	PHASE 1A					26						0.57							
P.88			WEL-9	IR 70	264+89.00	274+31.00	LT	PHASE 1A											0.18							
P.89			WEL-10	IR 70	276+98.00	284+71.00	LT	PHASE 1A											0.15							
P.63			WEL-11	IR 70	771+00.00	779+26.00	RT	PHASE 1A											0.31							
P.63			WTL-1	IR 70	776+47.00	779+28.00	RT	PHASE 1A																174			
P.64	-	P.65	WTL-2	IR 70	798+63.00	798+76.00	RT	PHASE 1A																135			
P.64			WYL-1	RAMP C	794+32.00	794+87.00	RT	PHASE 1A												0.02							
P.67	-	P.90	WYL-2	IR 70	4+72.00	294+09.00	RT/LT	PHASE 1A					106							12.03							
P.65	-	P.66	WYL-3	IR 70	799+26.00	816+29.00	RT	PHASE 1A												0.32							
P.67			WYL-4	IR 70	3+18.00	9+95.00	RT/LT	PHASE 1A												0.13							
P.87	-	P.89	WYL-5	RAMP E	253+15.00	279+70.00	LT	PHASE 1A					134								2661						
P.63	-	P.65	WCH-1	IR 70	785+27.00	799+42.00	RT	PHASE 1A					91								1815						
P.64			WCH-2	RAMP C/IR 70	794+87.00	797+14.00	RT	PHASE 1A					23								446						
P.65			WCH-3	IR 70	800+07.00	808+49.00	LT	PHASE 1A					43								1690						
P.67	-	P.68	WCH-4	IR 70	9+95.00	17+31.00	LT	PHASE 1A					50								989						
P.87			WCH-5	IR 70	252+56.00	255+70.00	LT/RT	PHASE 1A					25								487						
P.87	-	P.88	WCH-6	IR 70	261+77.00	264+89.00	LT	PHASE 1A					16								312						
P.88	-	P.89	WCH-7	IR 70	274+31.00	276+17.00	LT	PHASE 1A					10								186						
P.89	-	P.90	WCH-8	IR 70	279+13.00	295+49.00	LT/RT	PHASE 1A					152								3021						
P.89	-	P.90	WCH-9	IR 70	285+02.00	295+49.00	RT	PHASE 1A					75								1492						
P.63			WCH-10	IR 70	771+50.00	779+28.00	RT	PHASE 1A					106								2122						
P.63	-	P.64	WDL-1	IR 70	778+50.00	786+90.00	RT	PHASE 1A														1680					
P.64	-	P.65	WDL-2	IR 70	797+14.00	809+35.00	RT	PHASE 1A														1218					
P.65			WDL-3	IR 70	799+77.00	804+83.00	LT	PHASE 1A														508					
P.86	-	P.87	WDL-4	IR 70	247+59.00	251+97.00	LT	PHASE 1A														438					
P.87			WDL-5	IR 70	253+85.00	261+77.00	LT	PHASE 1A														792					
P.89	-	P.90	WDL-6	IR 70	276+17.00	290+20.00	LT	PHASE 1A														5667					
			WDL-7	IR 70	755+61.00	771+50.00	RT	PHASE 1A														3178					
P.67			TP-1	IR 70	7+15.00	10+85.00	RT	PHASE 1A																	384		
P.76	-	P.77	TP-2	IR 70	121+83.00	134+95.00	RT	PHASE 1A																	3893		
P.87			TP-3	IR 70	256+36.00	259+30.00	RT	PHASE 1A																	225		
P.65	-	P.90	PB-1	IR 70	799+67.00	289+60.00	LT	PHASE 1A							1252		626									31259	
P.66	-	P.67	PB-2	IR 70	822+16.00	10+10.00	RT/LT	PHASE 1A				1		21			21										1037
P.87			PB-3	RAMP E	13+42.00	15+20.00	RT	PHASE 1A				1		4			4										178
P.87	-	P.89	PB-4	RAMP E	255+20.00	278+18.00	RT	PHASE 1A						46			46										2252
P.64		P.65	PB-5	IR 70	796+96.00	799+26.00	RT	PHASE 1A				1		5			5										231
P.80				IR 70	173+19.00	173+73.00	LT	PHASE 1A								4											
P.84				IR 70	219+75.00	220+31.00	LT	PHASE 1A								2											
P.94	-	P.95	WEL-1	IR 70	799+44.00	820+36.00	RT	PHASE 1B											0.39							
P.96	-	P.97	WEL-2	IR 70	1+28.00	15+36.00	RT/LT	PHASE 1B											0.27							
P.94	-	P.96	WYL-1	IR 70	799+26.00	9+97.00	RT/LT	PHASE 1B												0.63							
P.96	-	P.97	WCH-1	IR 70	9+97.00	14+31.00	LT	PHASE 1B					22								436						
P.95	-	P.96	PB-1	IR 70	822+27.00	8+12.00	RT	PHASE 1B				1		17			17										852
P.96			PB-2	IR 70	2+00.00	8+10.00	LT	PHASE 1B				1		13			13										612
TOTALS CARRIED TO SHEET P.26												5	879	106	1252	6	732		2.37	13.13	15657	13481	309	4502	31259	5162

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.24 TOTAL 577

FRA-70-00.00

MODEL: MOTSUBSUM2 PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 10:08:39 AM USER: AMerrill
O:\2023\007111C. Design\116949_FRA-70-0.00\400-Engineering\MOT\Sheets\116949_MS001.dgn

SHEET NO	REFERENCE NO	LOCATION	STATION FROM	STATION TO	SIDE	PHASE	411 STABILIZED CRUSHED AGGREGATE	606 ANCHOR ASSEMBLY, MGS TYPE E	614 SPECIAL - WORK ZONE GUARDRAIL	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	614 WORK ZONE RAISED PAVEMENT MARKER, ONE WAY, AS PER PLAN	614 BARRIER REFLECTOR, TYPE 1, ONE WAY	614 BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	614 BARRIER REFLECTOR, TYPE 2, ONE WAY	614 OBJECT MARKER, ONE WAY	614 WORK ZONE LANE LINE, CLASS I, 6", 648	614 WORK ZONE EDGE LINE, CLASS I, 6", 648 (WHITE)	614 WORK ZONE EDGE LINE, CLASS I, 6", 648 (YELLOW)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	614 WORK ZONE DOTTED LINE, CLASS I, 6", 648	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	622 PORTABLE BARRIER, 50", AS PER PLAN	622 PORTABLE BARRIER, UNANCHORED
							CY	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	FT	SY	FT	FT
P.99 - P.101	WEL-1	IR 70/RAMP E	249+59.00	278+58.00	LT/RT	PHASE 1C											0.55							
P.99 - P.101	WYL-1	IR 70/RAMP E	255+64.00	277+99.00	LT/RT	PHASE 1C												0.42						
P.99	WCH-1	IR 70	254+91.00	255+64.00	LT	PHASE 1C					4								74					
P.98 - P.99	WDL-1	IR 70	247+59.00	254+91.00	LT	PHASE 1C														732				
P.99 - P.101	PB-1	RAMP E	256+35.50	278+08.00	RT	PHASE 1C				1		44			44									2166
P.99 - P.100	PB-2	RAMP E	258+72.00	265+55.00	RT	PHASE 1C				1		14			14									690
P.103	TP-1	IR 70	2+72.00	11+37.00	MEDIAN	PHASE 1D																1427		
P.103 - P.104	TP-2	IR 70	11+72.00	14+44.00	MEDIAN	PHASE 1D																201		
P.110	WGR-1	IR 70	1+01.00	2+77.00	MEDIAN	PHASE 2A			177															
P.113	WGR-2	IR 70	43+55.00	44+55.00	MEDIAN	PHASE 2A			100															
P.115	WGR-3	IR 70	74+44.00	75+44.00	MEDIAN	PHASE 2A			100															
P.121	WGR-4	IR 70	138+04.00	139+04.00	MEDIAN	PHASE 2A			100															
P.108 - P.132	WLL-1	IR 70	807+08.00	279+06.00	RT	PHASE 2A					245					5.57								
P.111 - P.132	WLL-2	IR 70	14+18.00	278+76.00	RT	PHASE 2A					221					5.01								
P.107	WEL-1	IR 70	790+48.00	796+78.00	LT	PHASE 2A											0.12							
P.107	WEL-2	RAMP C	792+52.00	797+65.00	RT	PHASE 2A											0.10							
P.107 - P.132	WEL-3	IR 70	797+39.00	286+84.00	RT/LT	PHASE 2A					103						5.91							
P.108 - P.131	WEL-4	IR 70/RAMP E	799+44.00	271+03.00	RT	PHASE 2A											5.56							
P.110	WEL-5	IR 70	1+01.00	8+43.00	RT	PHASE 2A											0.14							
P.119 - P.120	WEL-6	IR 70	121+80.00	135+00.00	RT	PHASE 2A											0.50							
P.131	WEL-8	IR 70	265+04.00	274+75.00	RT	PHASE 2A											0.18							
P.132	WEL-9	IR 70	276+98.00	284+71.00	LT	PHASE 2A											0.15							
P.131	WYL-4	RAMP E	265+08.00	271+03.00	LT	PHASE 2A												0.11						
P.107 - 132	WYL-1	IR 70	798+13.00	294+09.00	RT	PHASE 2A					95							12.14						
P.108 - 109	WYL-2	IR 70	798+73.00	8+35.00	LT	PHASE 2A					34							0.61						
P.132	WYL-3	IR 70	276+30.00	284+70.00	LT	PHASE 2A												0.16						
P.133	WCH-1	IR 70	791+46.00	798+76.00	LT	PHASE 2A					53								1049					
P.107 - P.108	WCH-2	IR 70	796+78.00	799+70.00	LT	PHASE 2A					30								582					
P.107 - P.108	WCH-3	IR 70	795+13.00	807+08.00	RT	PHASE 2A					60								1193					
P.110 - P.111	WCH-4	IR 70	8+35.00	14+18.00	RT	PHASE 2A					43								857					
P.131	WCH-5	IR 70	263+53.00	265+09.00	RT	PHASE 2A					15								304					
P.131 - P.132	WCH-6	IR 70	274+75.00	284+28.00	RT	PHASE 2A					48								953					
P.132 - P.133	WCH-7	IR 70	278+76.00	295+49.00	RT/LT	PHASE 2A					213								4250					
P.132 - P.134	WCH-8	IR 70	284+70.00	301+33.00	LT	PHASE 2A					130								2586					
P.107 - P.108	WDL-1	IR 70	797+14.00	809+35.00	RT	PHASE 2A														1218				
P.108	WDL-2	IR 70	799+70.00	805+50.00	LT	PHASE 2A														582				
P.130 - P.131	WDL-3	IR 70	256+90.00	263+53.00	RT	PHASE 2A														663				
P.110	TP-1	IR 70	7+13.00	11+38.00	LT	PHASE 2A																566		
P.108 - P.133	PB-1	IR 70	798+75.00	291+81.00	LT/RT	PHASE 2A				1			1262		631								31538	
P.110	PB-2	IR 70	1+17.00	11+23.00	LT	PHASE 2A				1		21			21									1010
P.107 - P.108	PB-3	IR 70	797+00.00	799+23.00	LT	PHASE 2A				1		5			5									225
P.123		IR 70	174+54.00	175+07.00	RT	PHASE 2A								4										
P.127		IR 70	221+16.00	221+67.00	RT	PHASE 2A								3										
TOTALS CARRIED TO SHEET P.26									477	5	1294	84	1262	7	715	10.58	13.21	13.44	11848	3195		2194	31538	4091

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.25 | TOTAL 577

FRA-70-00.00

MODEL: MOTSUBSUM3 PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 10:16:26 AM USER: AMerrill
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SHEET NO	REFERENCE NO	LOCATION	STATION		SIDE	PHASE	411	606	614	614	614	614	614	614	614	614	614	614	614	615	622	622
			FROM	TO			STABILIZED CRUSHED AGGREGATE	ANCHOR ASSEMBLY, MGS TYPE E	SPECIAL - WORK ZONE GUARDRAIL	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER, ONE WAY, AS PER PLAN	BARRIER REFLECTOR, TYPE 1, ONE WAY	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	BARRIER REFLECTOR, TYPE 2, ONE WAY	OBJECT MARKER, ONE WAY	WORK ZONE LANE LINE, CLASS I, 6", 648	WORK ZONE EDGE LINE, CLASS I, 6", 648 (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 648 (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	WORK ZONE DOTTED LINE, CLASS I, 6", 648	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, UNANCHORED
							CY	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	FT	SY	FT	FT
P.137	WEL-1	IR 70	814+80.00	822+39.00	LT	PHASE 2B											0.14							
P.138 - P.139	WEL-2	IR 70	1+69.00	14+44.00	LT/RT	PHASE 2B											0.24							
P.137 - P.138	WYL-1	IR 70	815+40.00	9+10.00	LT	PHASE 2B												0.32						
P.138 - P.139	WCH-1	IR 70	9+10.00	16+55.00	RT	PHASE 2B					38								745					
P.138	PB-1	IR 70	1+17.00	8+61.00	LT	PHASE 2B				1		15			15									750
					(PHASE 2C)						1014					25.36	13.03	13.23	6696	4240				
P.139A	ATT-1	IR 70	795+00.00		RT	PHASE 2C				1														
P.139A - P.139B	PB-1	IR 70	795+00.00	804+50.00	RT	PHASE 2C						19			19									950
P.139A - P.139B	PB-2	IR 70	796+50.00	804+17.00	LT	PHASE 2C						15			15									767
P.139B	ATT-2	IR 70	804+17.00		LT	PHASE 2C				1														
P.139D	PB-3	IR 70	3+50.00	15+70.00	LT	PHASE 2C						24			24									1220
P.139D	ATT-3	IR 70	4+30.00		RT	PHASE 2C				1														
P.139D - P.139E	PB-4	IR 70	4+30.00	15+00.00	RT	PHASE 2C						21			21									1070
P.139E	ATT-4	IR 70	15+70.00		LT	PHASE 2C				1														
P.139F	ATT-5	IR 70	281+00.00		RT	PHASE 2C				1														
P.139F - P.139G	PB-5	IR 70	281+00.00	289+50.00	RT	PHASE 2C						17			17									850
P.139F - P139G	PB-6	IR 70	281+50.00	290+17.00	LT	PHASE 2C						17			17									867
P.139F	ATT-6	IR 70	290+17.00		LT	PHASE 2C				1														
TOTALS THIS SHEET										7	1052	129			129	25.36	13.41	13.55	7441	4240				6474
TOTALS CARRIED FROM SHEET P.23							2180	1	1712.5	9	2040	193		16	193	10.51	11.73	0.14				24973		9482
TOTALS CARRIED FROM SHEET P.24										5	879	106	1252	6	732		2.37	13.13	15657	13481	309	4502	31259	5162
TOTALS CARRIED FROM SHEET P.25									477	5	1294	84	1262	7	715	10.58	13.21	13.44	11848	3195		2194	31538	4091
TOTALS CARRIED TO GENERAL SUMMARY							2180	1	2189.5	26	5265	512	2514	29	1769	46.45	40.72	40.26	34946	20916	309	31669	62797	25209

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
AMEREN STRUCTUREPOINT INC.

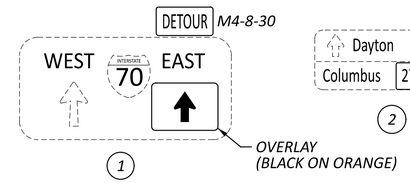
DESIGNER
DMS

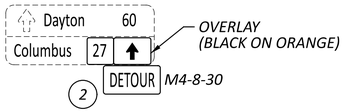
REVIEWER
AJL 08/23/24

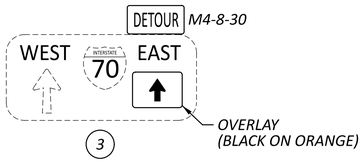
PROJECT ID
116949

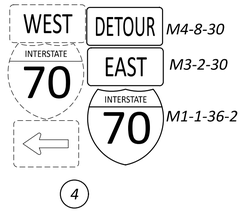
SHEET P.26 TOTAL 577

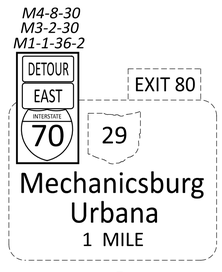
FRA-70-00.00

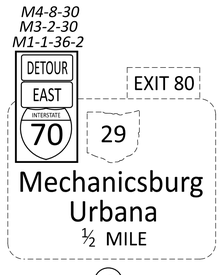


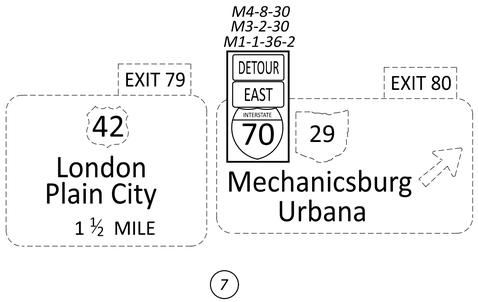


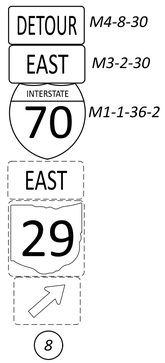


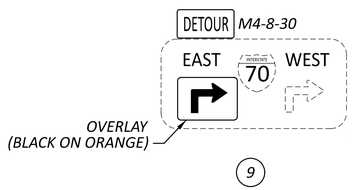


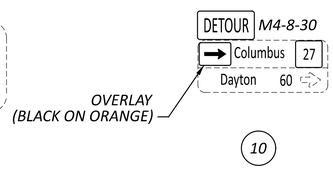


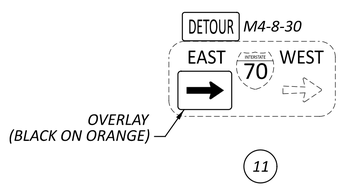














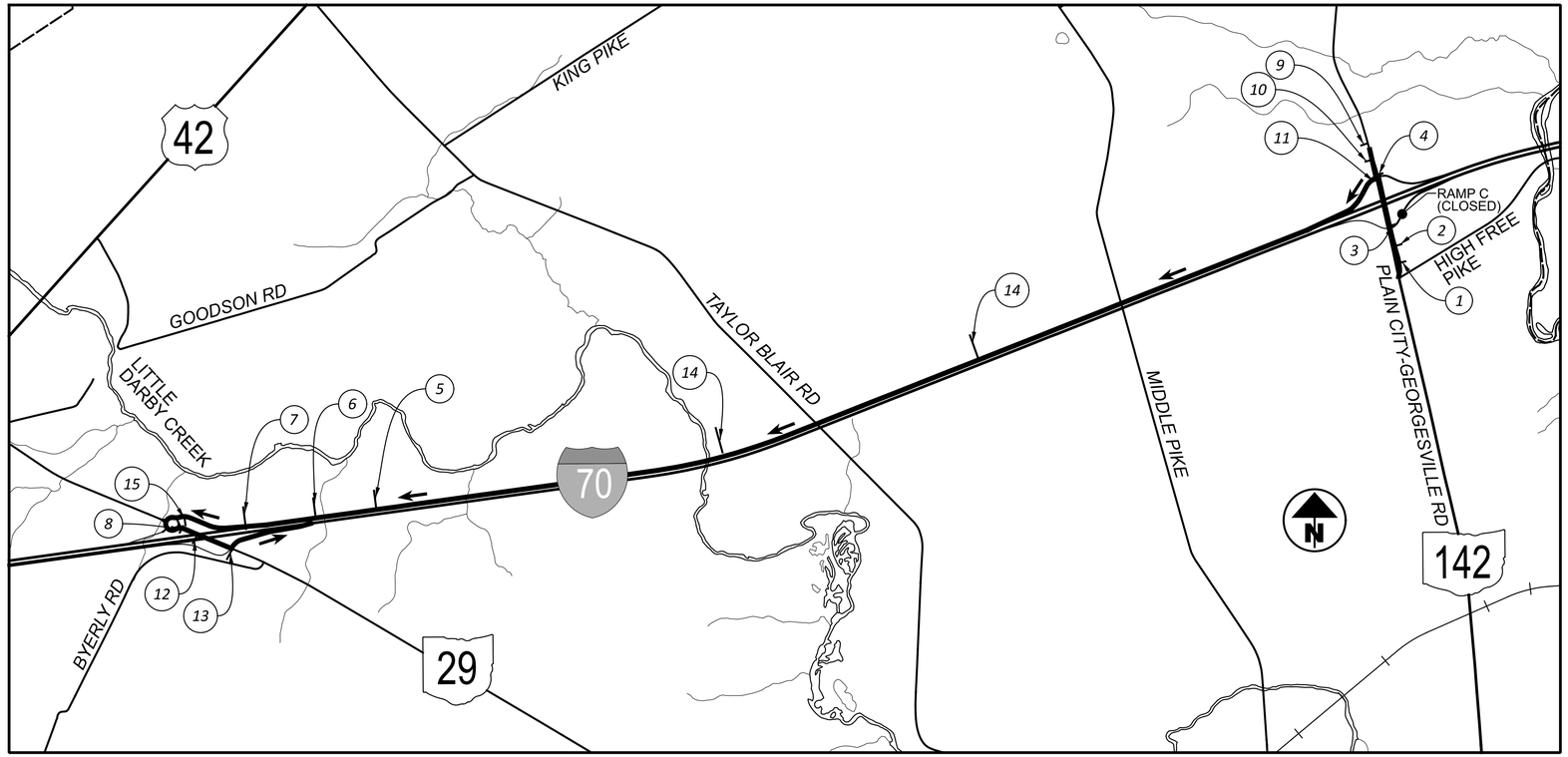


NOTE:

1. THIS DETOUR IS INTENDED FOR SHORT-TERM RAMP C CLOSURE IF NECESSARY







HORIZONTAL SCALE IN FEET
0 900 1800 3600

LEGEND

- DETOUR ROUTE

PROPOSED WORK ZONE SIGN

EXISTING SIGNS

EXISTING COVERED SIGNS

EXISTING SIGN TO BE REMOVED

MAINTENANCE OF TRAFFIC DETOUR SHEET RAMP C CLOSED, PHASE 1 STEP A

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER AVP
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.27 TOTAL 577

FRA-70-00.00

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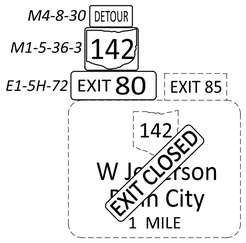

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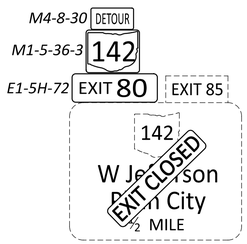

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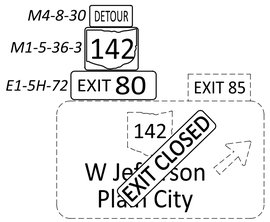

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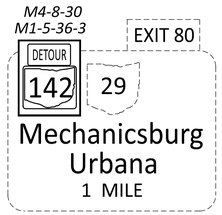

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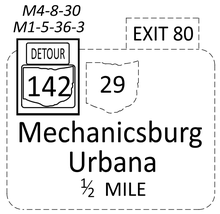

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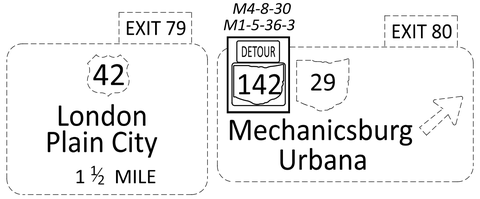

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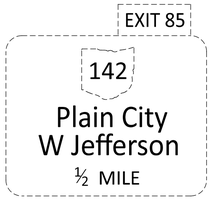
7



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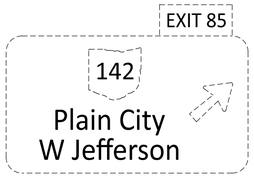

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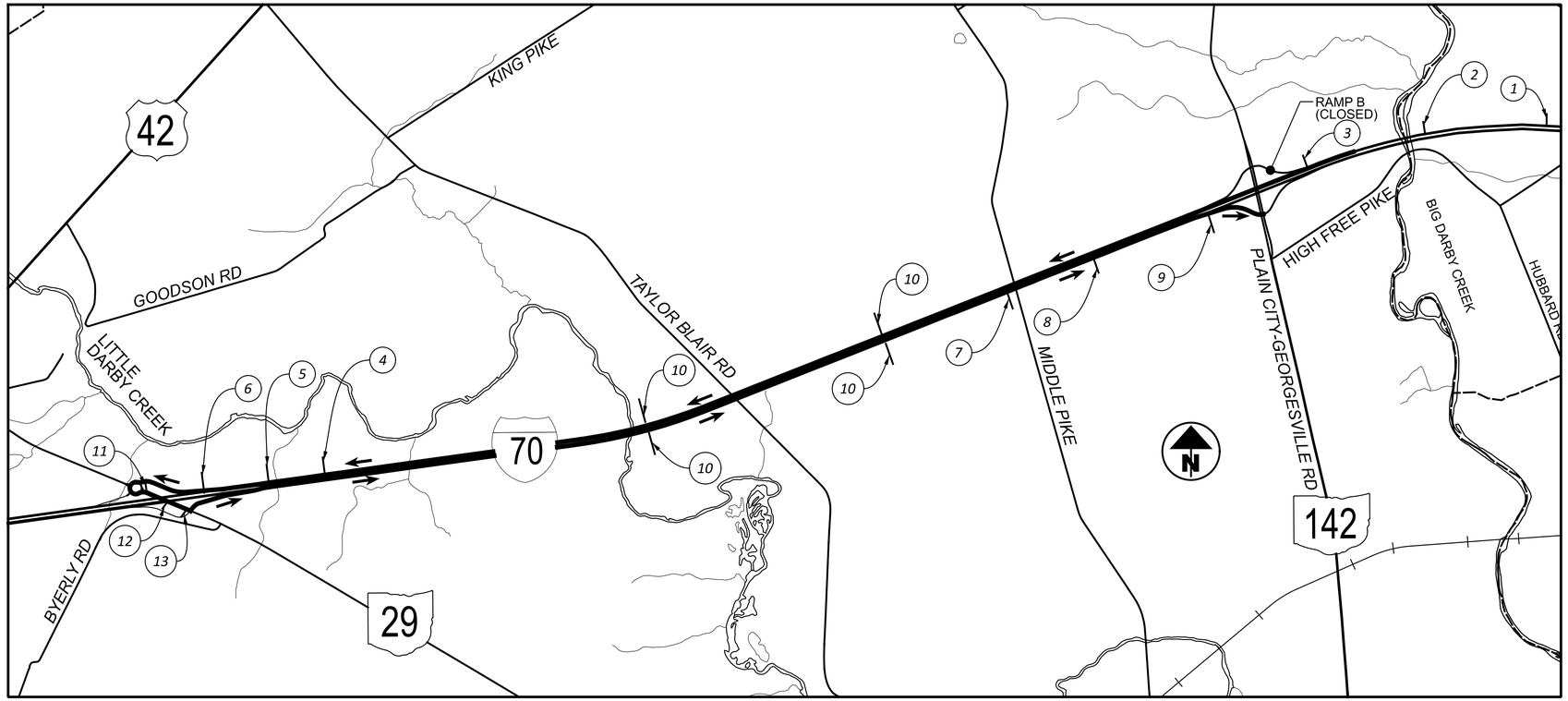
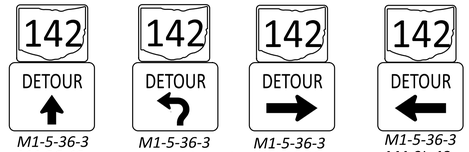


NOTE:

1. THIS DETOUR IS INTENDED FOR SHORT-TERM RAMP B CLOSURE IF NECESSARY



LEGEND

→ - DETOUR ROUTE

HORIZONTAL SCALE IN FEET
0 900 1800 3600

MAINTENANCE OF TRAFFIC DETOUR SHEET
RAMP B CLOSED, PHASE 2 STEP A

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC

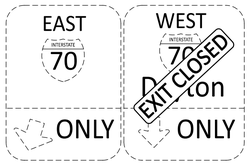
DESIGNER
AVP

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.28 | TOTAL 577

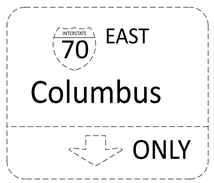
FRA-70-00.00

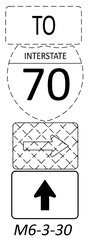




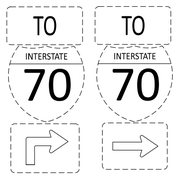




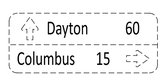


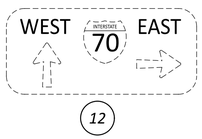


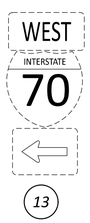


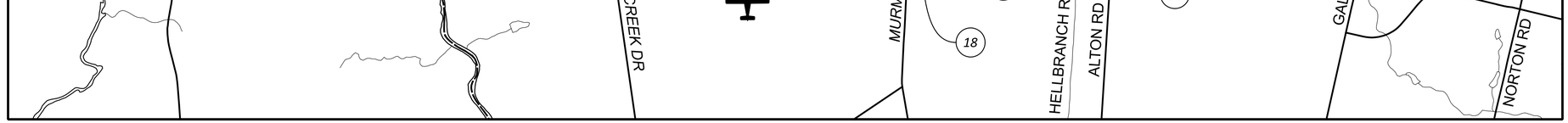


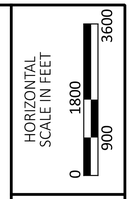


















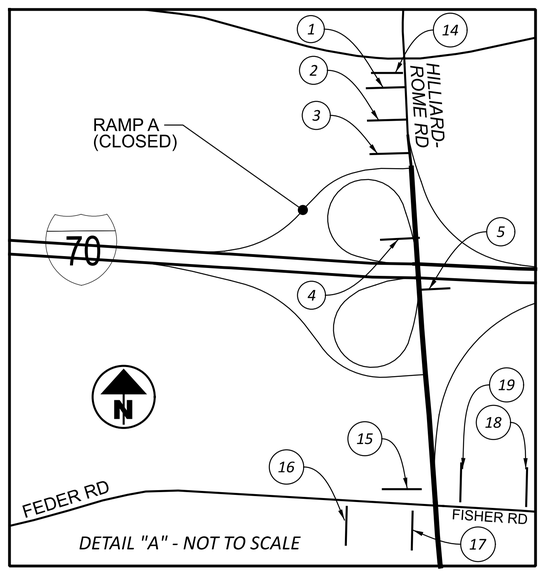






LEGEND

- DETOUR ROUTE



MAINTENANCE OF TRAFFIC DETOUR SHEET
RAMP A CLOSED, PHASE 2 STEP A

DESIGN AGENCY
STRUCTUREPOINT LLC

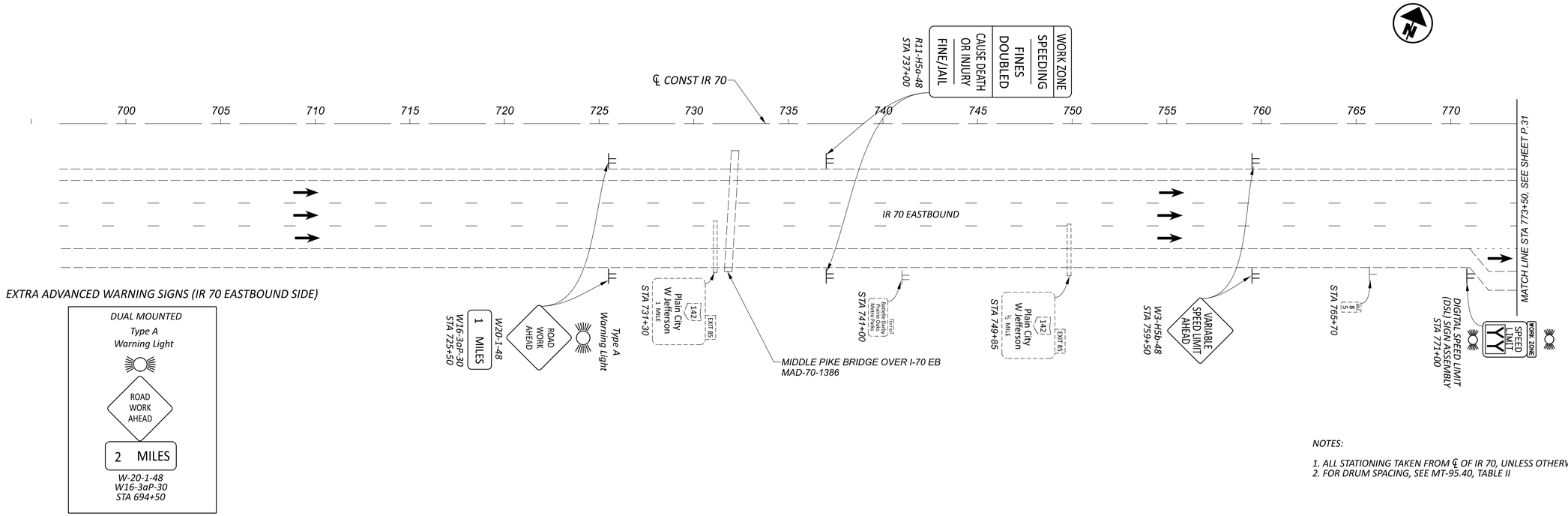
DESIGNER
AVP

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.29 | TOTAL 577

FRA-70-00.00



NOTES:

1. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
2. FOR DRUM SPACING, SEE MT-95.40, TABLE II

LEGEND

- IMPACT ATTENUATOR
- TYPE 3 BARRICADE
- PORTABLE CHANGEABLE MESSAGE SIGN
- DUAL PORTABLE BARRIER TRANSITION/TERMINATION
- PORTABLE BARRIER (PB), 32"
- PORTABLE BARRIER (PB), 50", APP
- DIRECTION OF TRAFFIC (NOT PVMT MARKINGS)
- MOT DRUM
- CONSTRUCTION UNDER THIS PHASE
- CONSTRUCTION UNDER PREVIOUS PHASE(S)
- TEMPORARY CONSTRUCTION UNDER THIS PHASE
- TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)
- PROPOSED WORK ZONE SIGN
- EXISTING SIGNS
- EXISTING COVERED SIGNS
- EXISTING SIGN TO BE REMOVED

WEL	ITEM 614 - WORK ZONE EDGE LINE, WHITE ITEM 618 - RUMBLE STRIPES, EDGE LINE
WLL	ITEM 614 - WORK ZONE LANE LINE
WYL	ITEM 614 - WORK ZONE EDGE LINE, YELLOW
WCH	ITEM 614 - WORK ZONE CHANNELIZING LINE
WDL	ITEM 614 - WORK ZONE DOTTED LINE
WTL	ITEM 614 - WORK ZONE TRANSVERSE LINE
WGR	ITEM 614 - SPECIAL - WORK ZONE GUARDRAIL
TD	ITEM 611 - TEMPORARY DRAINAGE
ATT	ITEM 614 - WORK ZONE IMPACT ATTENUATOR
TP	ITEM 615 - TEMPORARY PAVEMENT FOR MAINTAINING TRAFFIC
PB	ITEM 622 - PORTABLE BARRIER
AGG	ITEM 411 - STABILIZED CRUSHED AGGREGATE

HORIZONTAL SCALE IN FEET
0 150 300 600

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 700+00.00 TO STA 773+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.30 TOTAL 577

FRA-70-00.00

MODEL: ADVANCED SIGNS PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 10:34:21 AM USER: AMerrill
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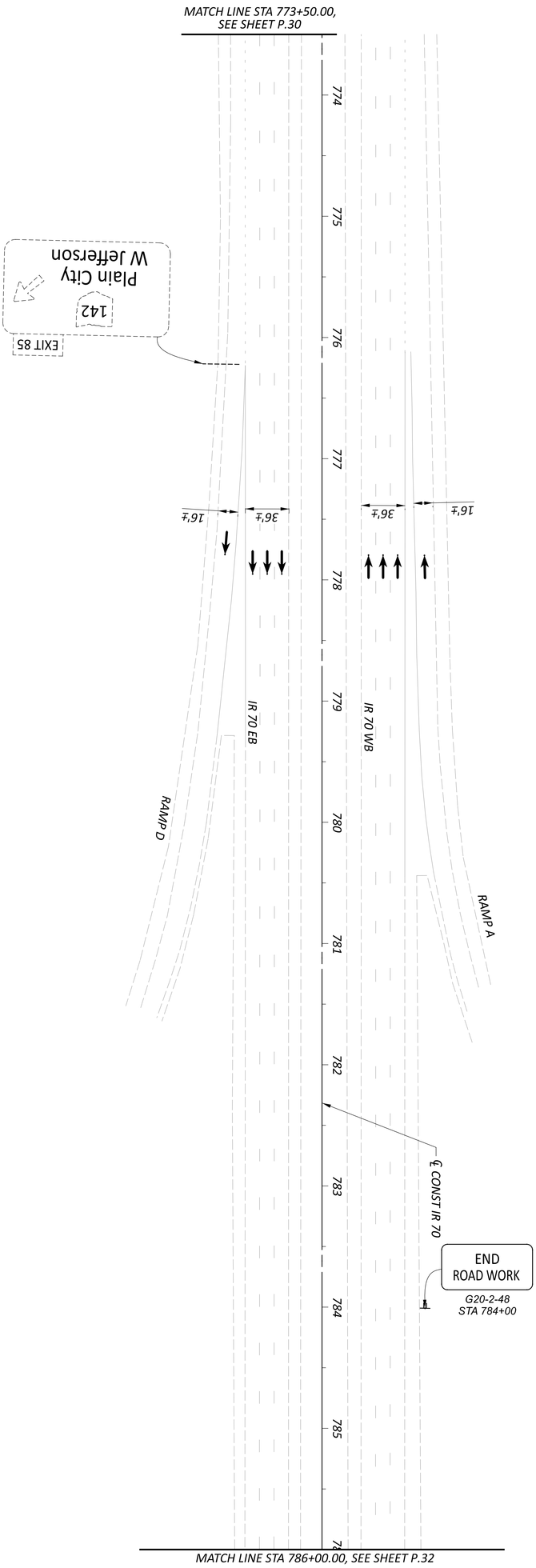


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

SHEET	TOTAL
P.31	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

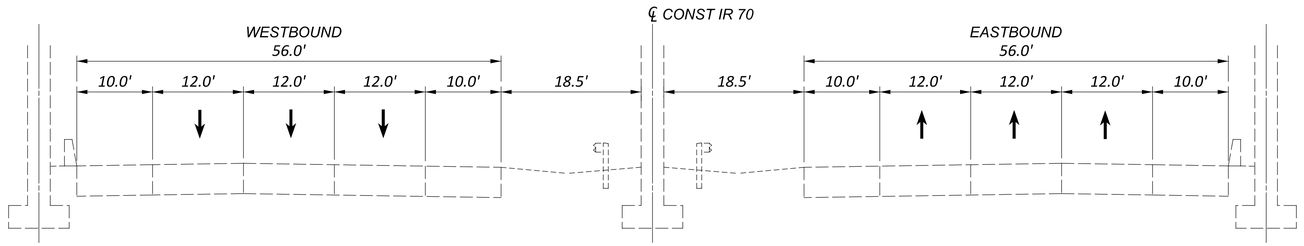
DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 773+50.00 TO STA 786+00.00

HORIZONTAL SCALE IN FEET

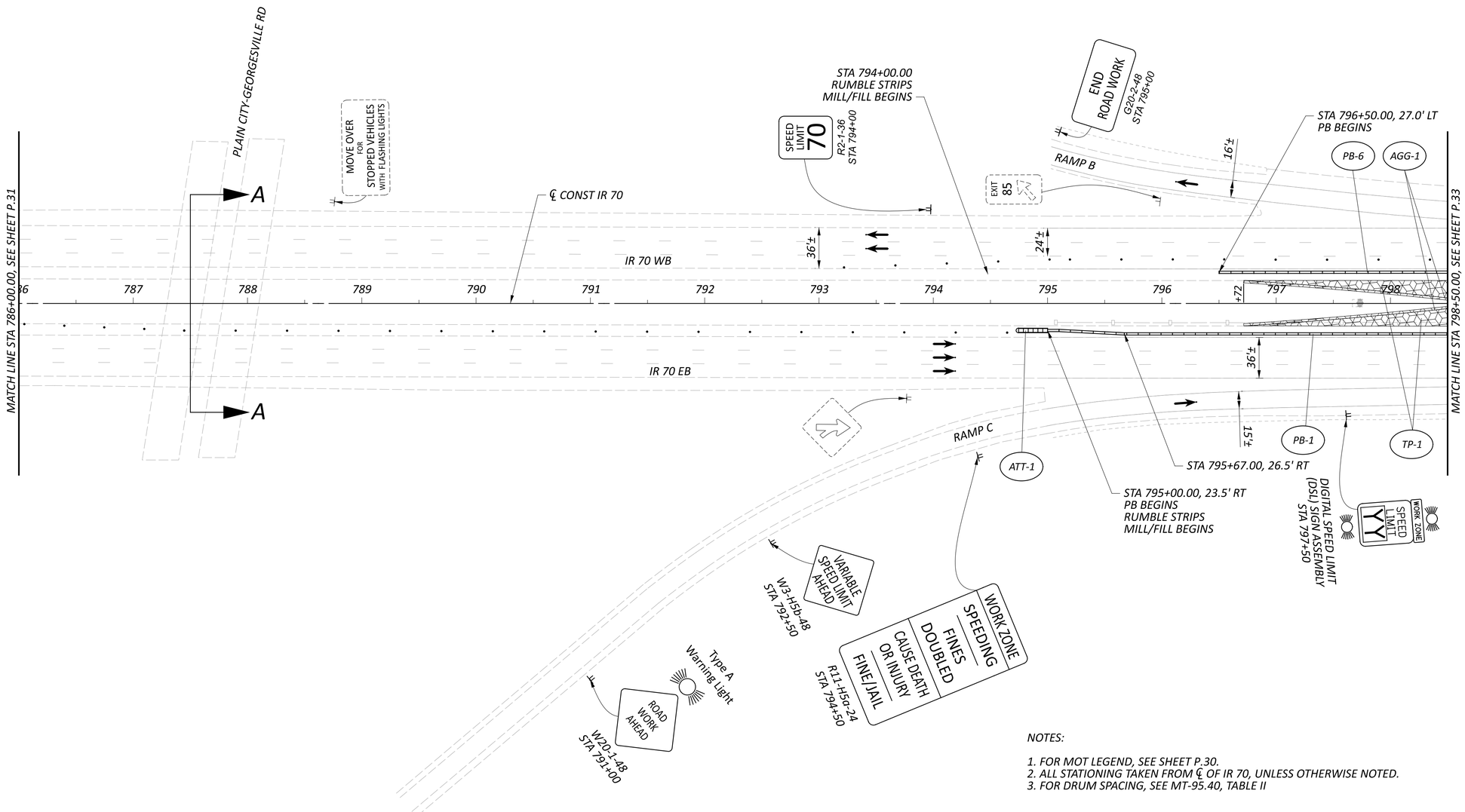
0 50
25 100



PRE-PHASE 1 SECTION A-A IR 70
PLAIN CITY-GEORGESVILLE RD

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 786+00.00 TO STA 798+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.32
TOTAL	577

FRA-70-00.00

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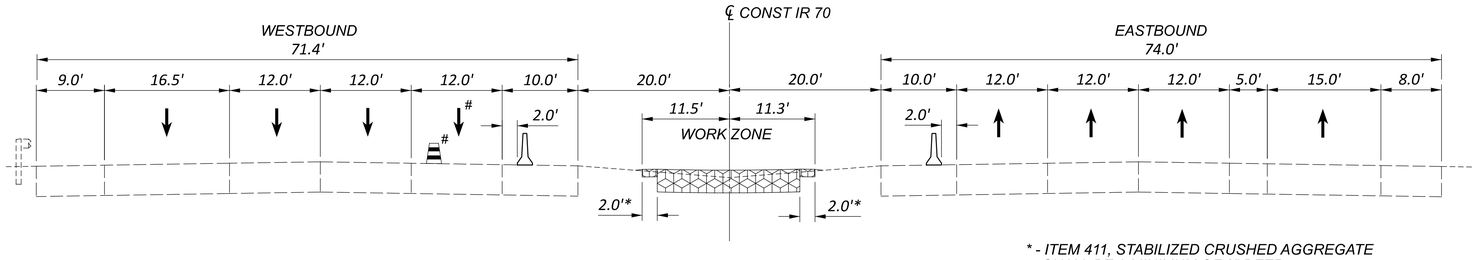


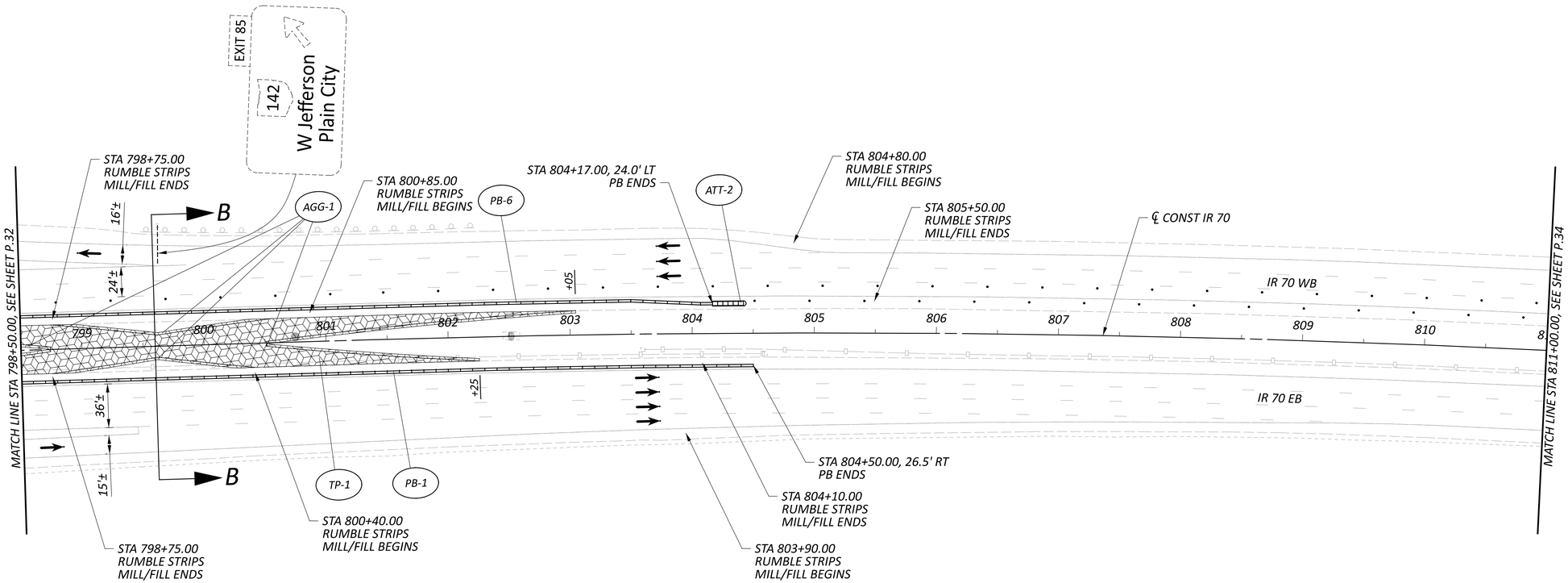
PRE-PHASE 1 SECTION B-B IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION B-B IR 70 - NON-WORKING HOURS # STA 799+60

- OPEN INSIDE LANE, REMOVE DRUMS

* - ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE A MINIMUM OF 6" DEEP

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 798+50.00 TO STA 811+00.00

DESIGN AGENCY
WSP USA STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.33
TOTAL	577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:04 PM USER: AMerrill
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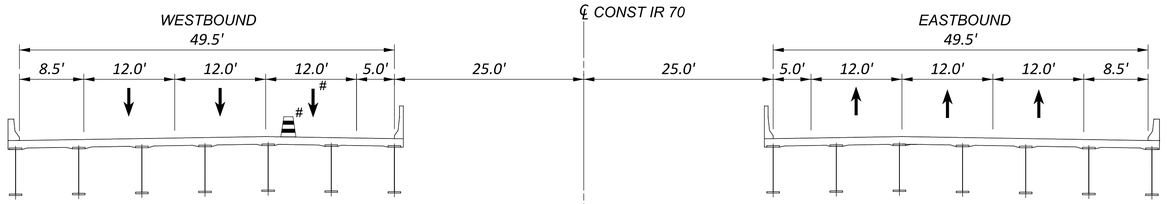
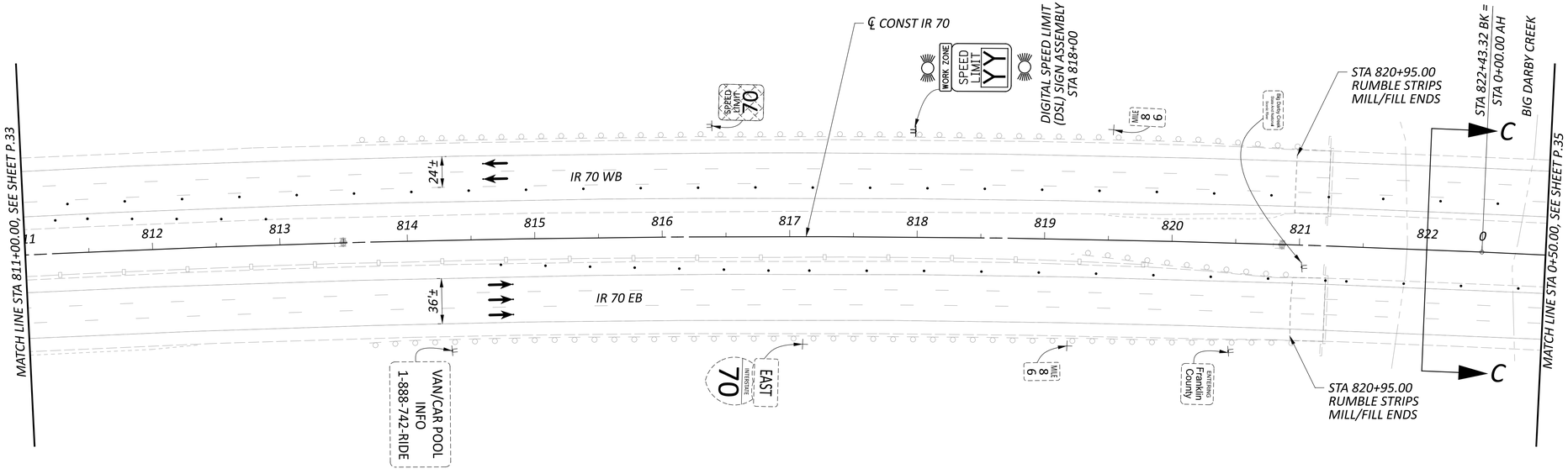


PRE-PHASE 1 SECTION C-C IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION C-C IR 70 - NON-WORKING HOURS #
OVER BIG DARBY CREEK

- OPEN INSIDE LANE, REMOVE DRUMS



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 811+00.00 TO STA 0+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.34 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:04 PM USER: AMerrill
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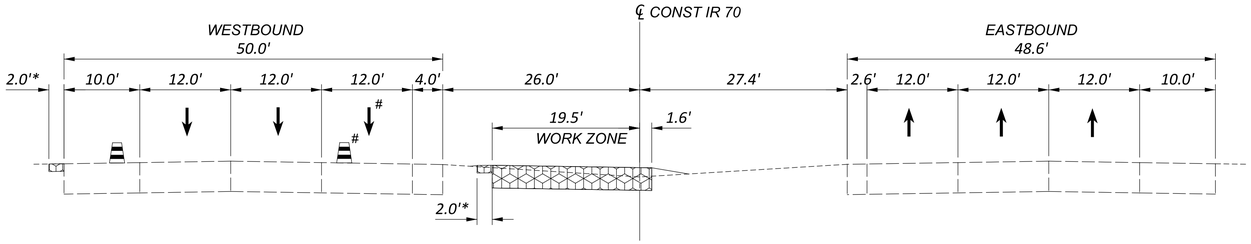


* - ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE A MINIMUM OF 6" DEEP

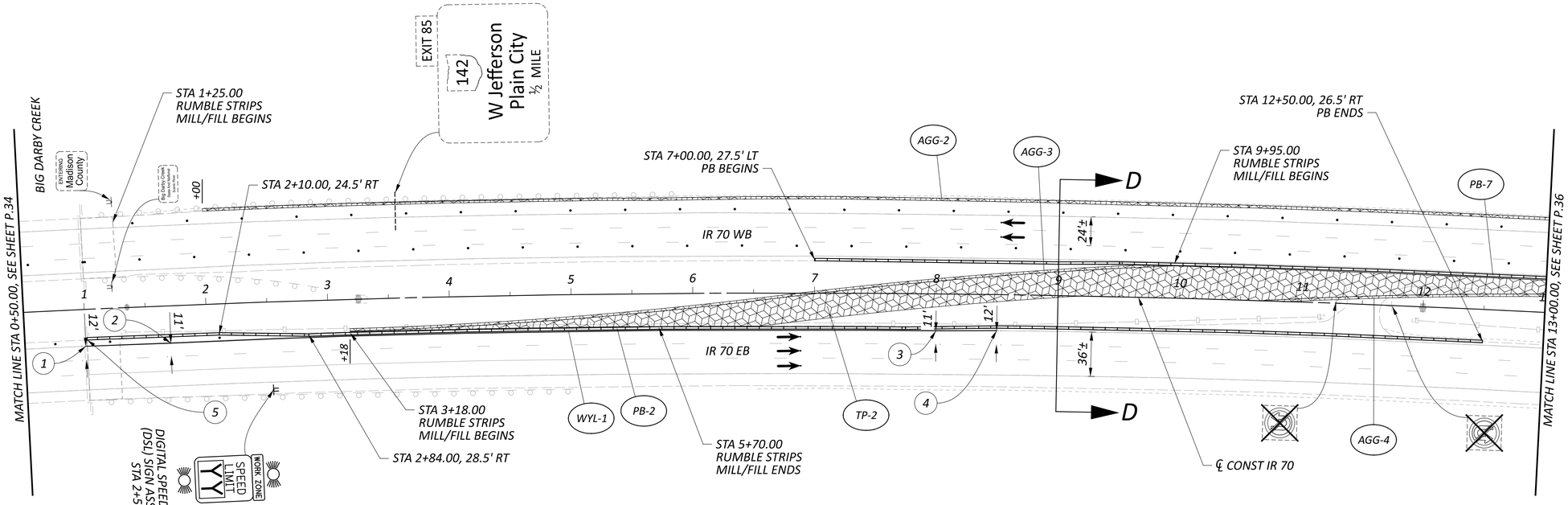
PRE-PHASE 1 SECTION D-D IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION D-D IR 70 - NON-WORKING HOURS #
STA 9+00

\# - OPEN INSIDE LANE, REMOVE DRUMS

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE

HORIZONTAL SCALE IN FEET
0 25 50 100



1 - STA 1+00.00, 30.0' RT
LANE TAPER BEGINS

2 - STA 1+70.00, 31.0' RT
LANE TAPER ENDS

3 - STA 8+00.00, 30.5' RT
LANE TAPER BEGINS

4 - STA 8+50.00, 29.5' RT
LANE TAPER ENDS

5 - STA 1+01.00, 25.0' RT
PB BEGINS
CONNECT TO EX PARAPET

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 0+50.00 TO STA 13+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.35 | TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:05 PM USER: AMerrill
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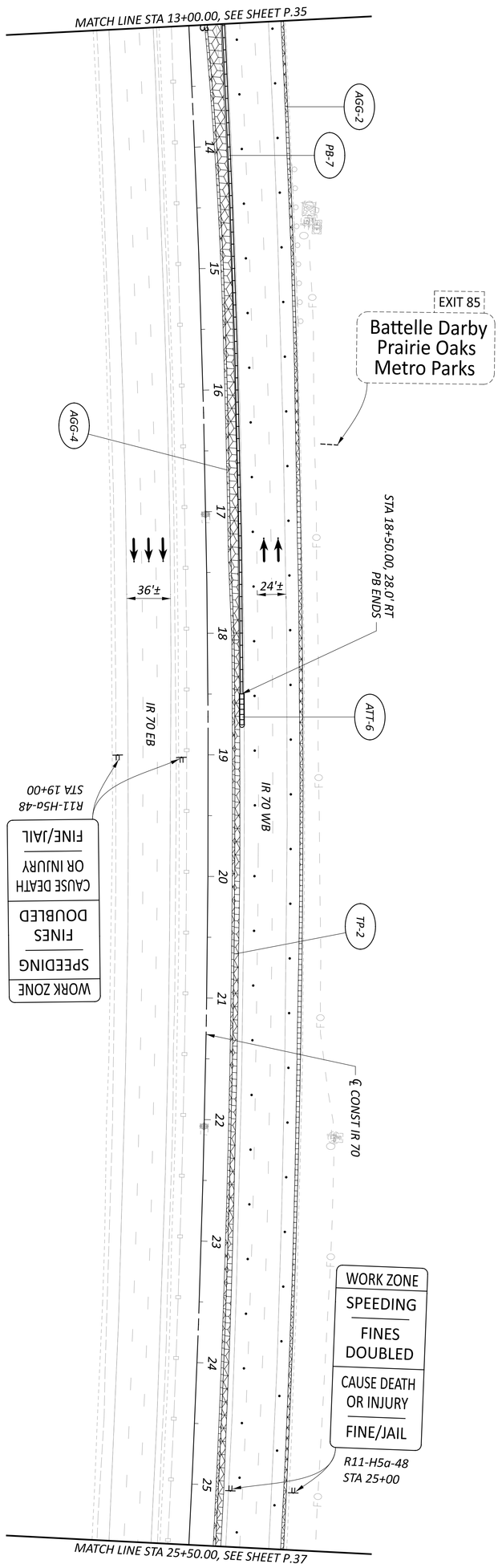

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE

N

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 13+00.00 TO STA 25+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.36	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MOT_I70 - MOT PRE-PHASE 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:06 PM USER: AMerrill
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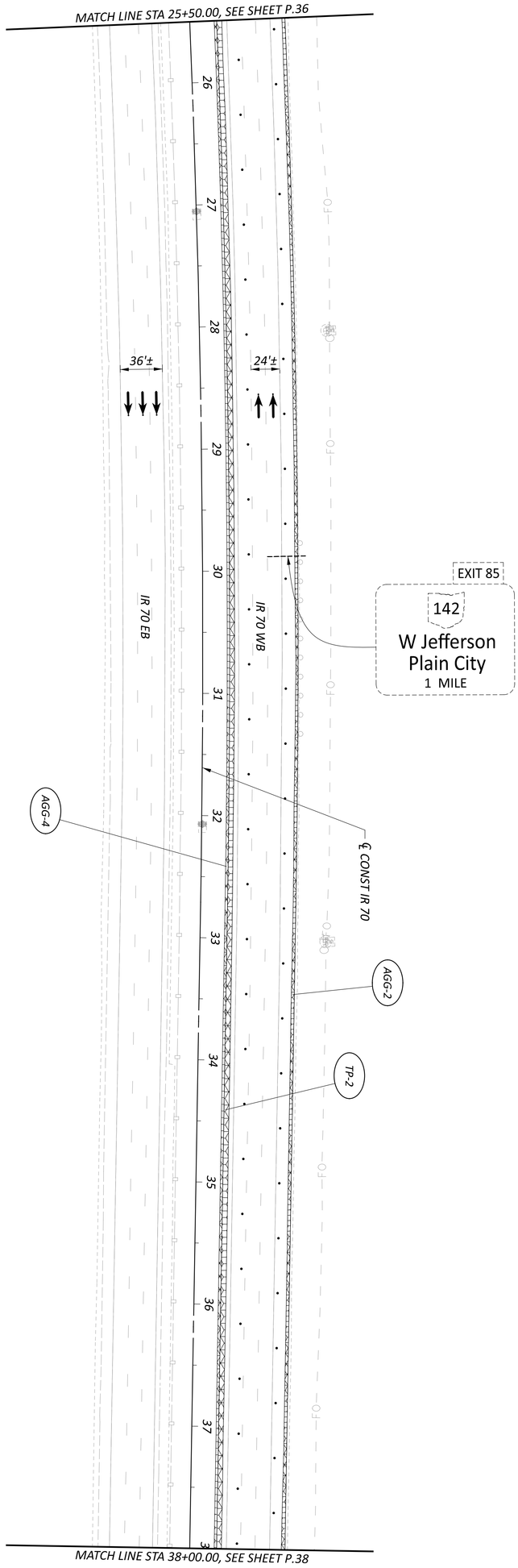


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE

N

SHEET	TOTAL
P.37	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

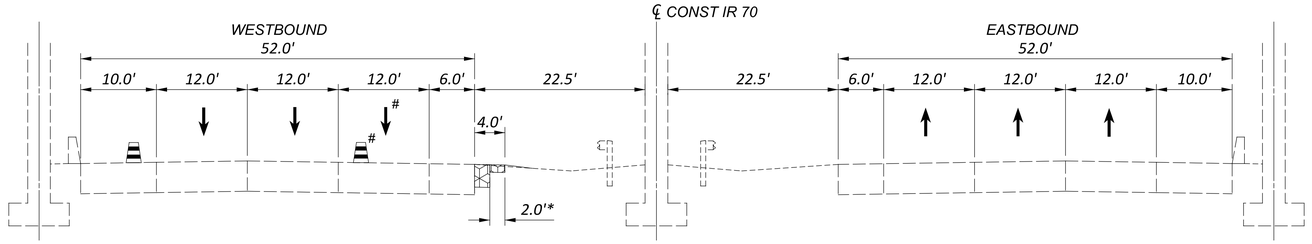
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 25+50.00 TO STA 38+00.00

HORIZONTAL SCALE IN FEET

0 50

25 100



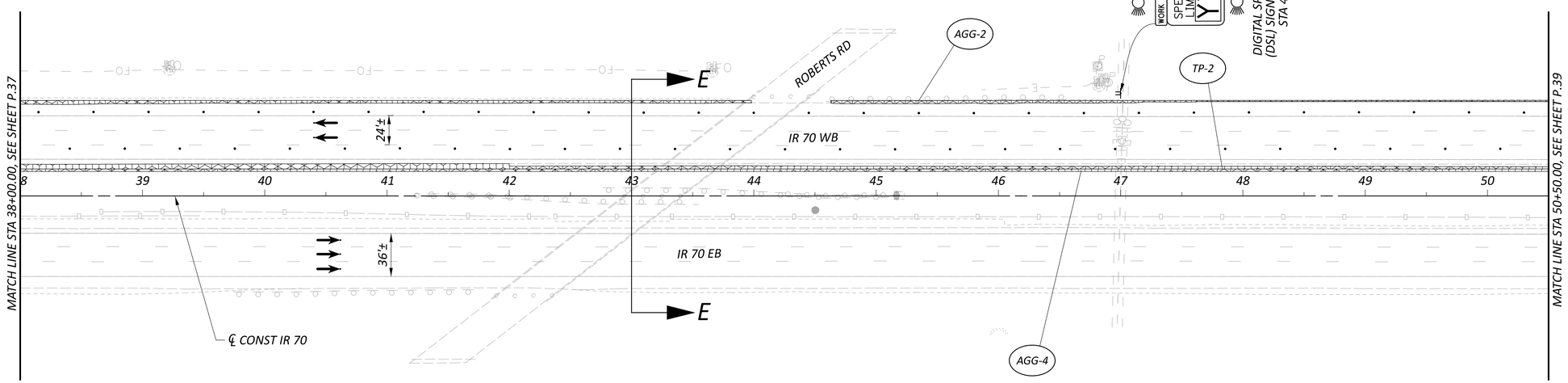
* - ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE A MINIMUM OF 6" DEEP

PRE-PHASE 1 SECTION E-E IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION E-E IR 70 - NON-WORKING HOURS#
UNDER ROBERTS RD

- OPEN INSIDE LANE, REMOVE DRUMS

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 38+00.00 TO STA 50+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.38 | TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 8 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:07 PM USER: AMerrill
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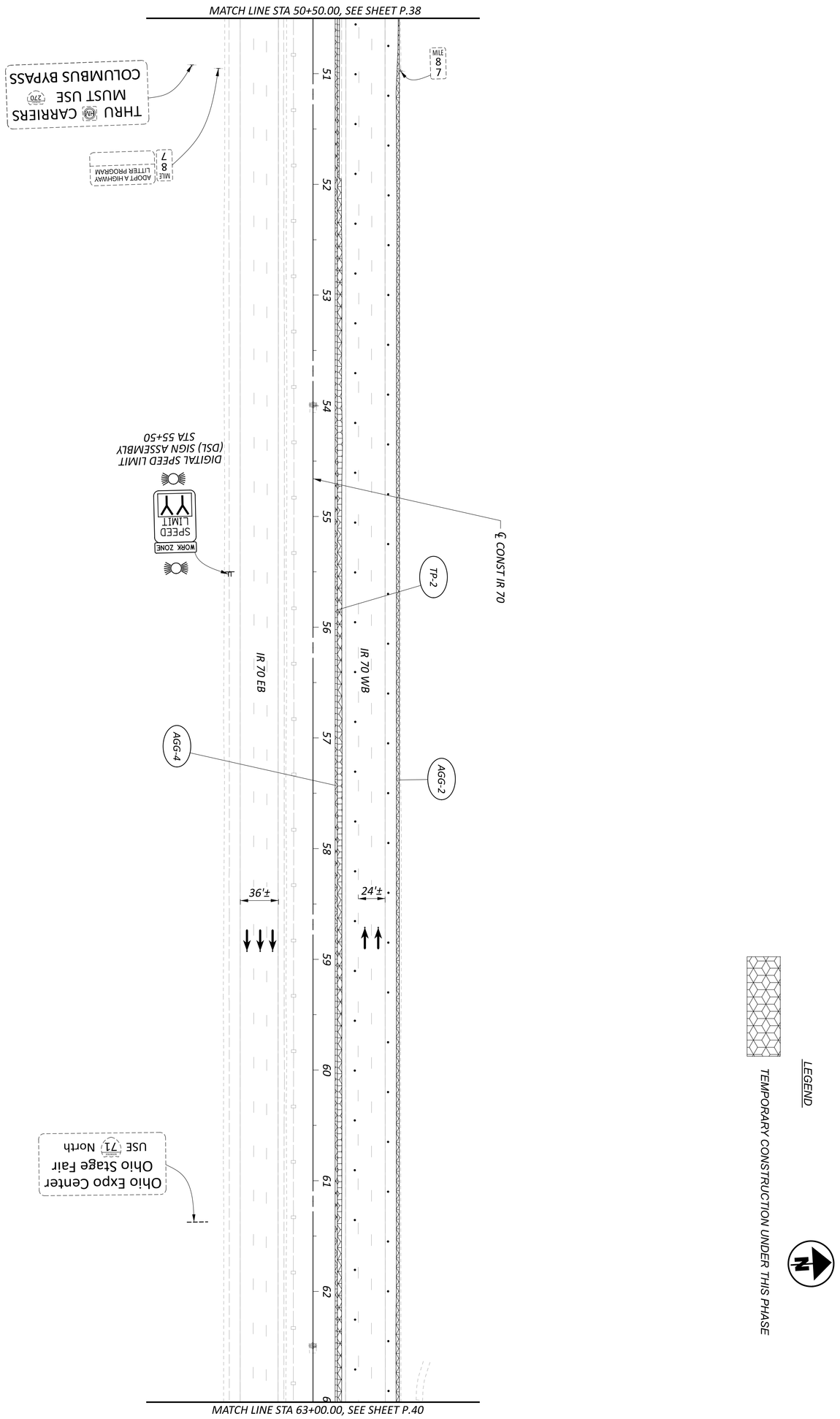


LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE

N

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE 11

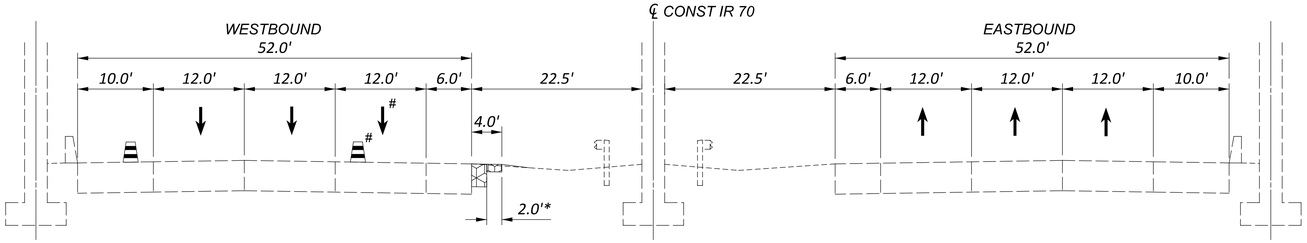
DESIGNER	REVIEWER	DESIGN AGENCY
DMS	AJL 08/23/24	AMERICAN STRUCTUREPOINT INC.

PROJECT ID 116949

SHEET P.39 | TOTAL 577

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 50+50.00 TO STA 63+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100



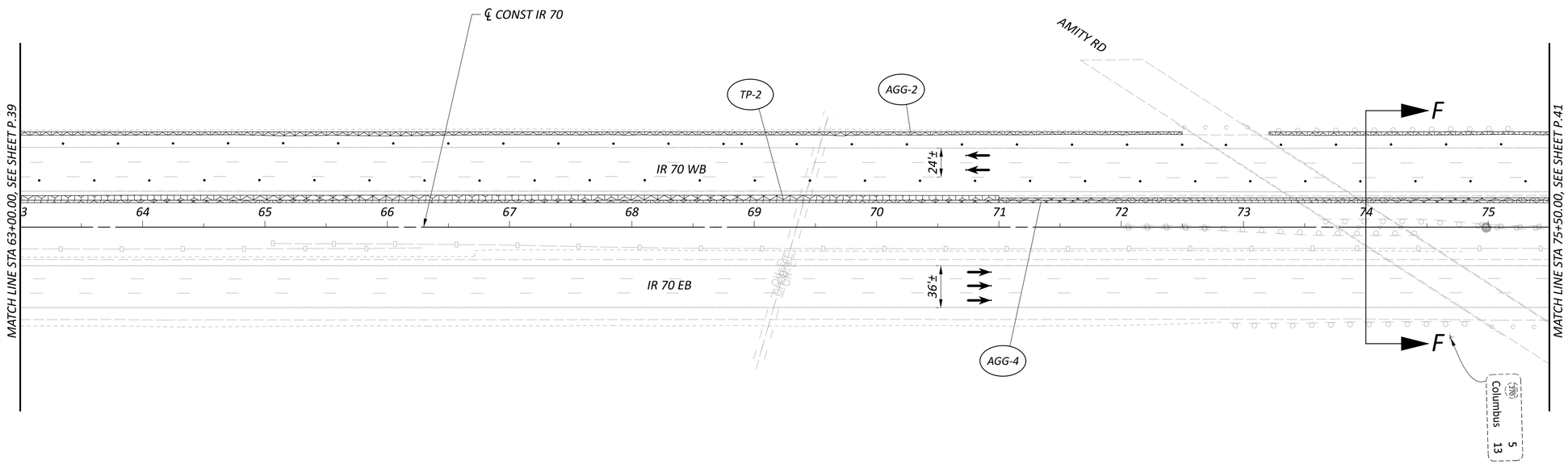
* - ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE A MINIMUM OF 6" DEEP

PRE-PHASE 1 SECTION F-F IR 70 - WORKING HOURS #
PRE-PHASE 1 SECTION F-F IR 70 - NON-WORKING HOURS #
UNDER AMITY RD

- OPEN INSIDE LANE, REMOVE DRUMS

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 63+00.00 TO STA 75+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.40 | TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:08 PM USER: AMerrill
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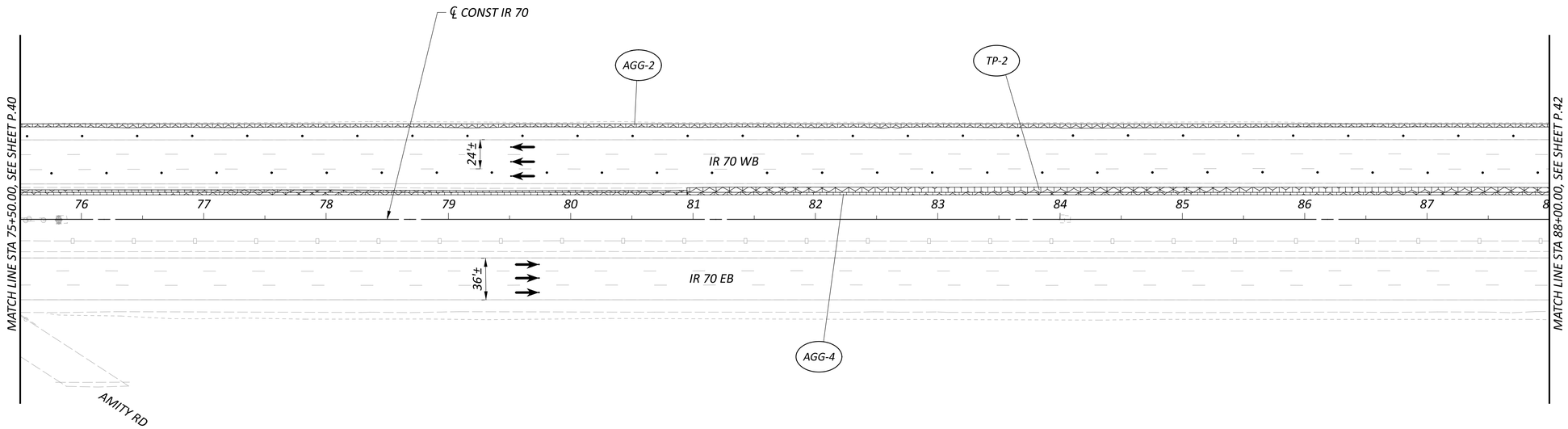
LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 50 100
25

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 75+50.00 TO STA 88+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER DMS

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.41 | TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:09 PM USER: AMerrill
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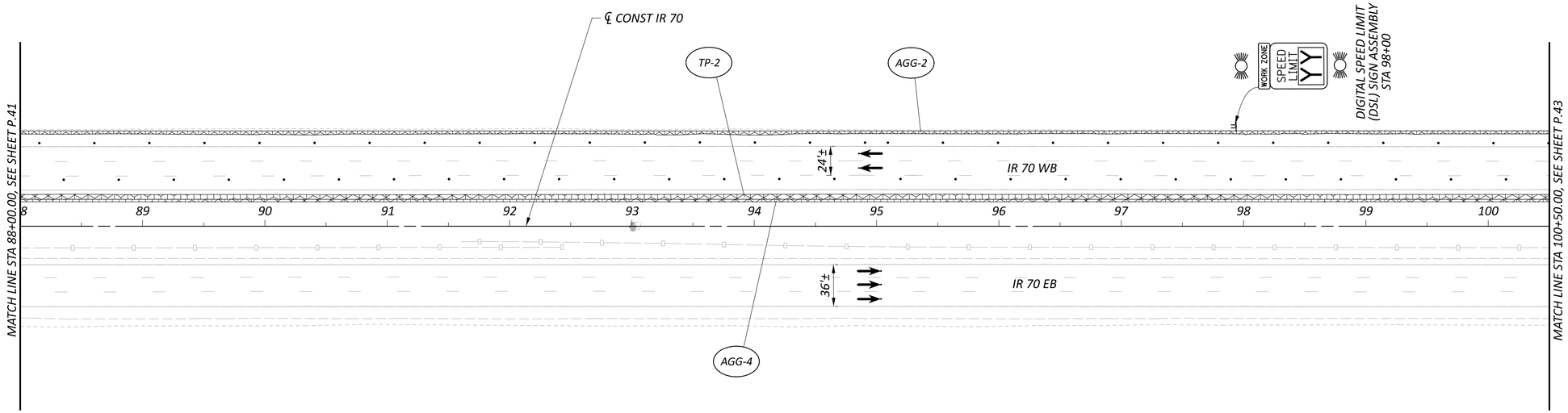
LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 88+00.00 TO STA 100+50.00

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:10 PM USER: AMerrill
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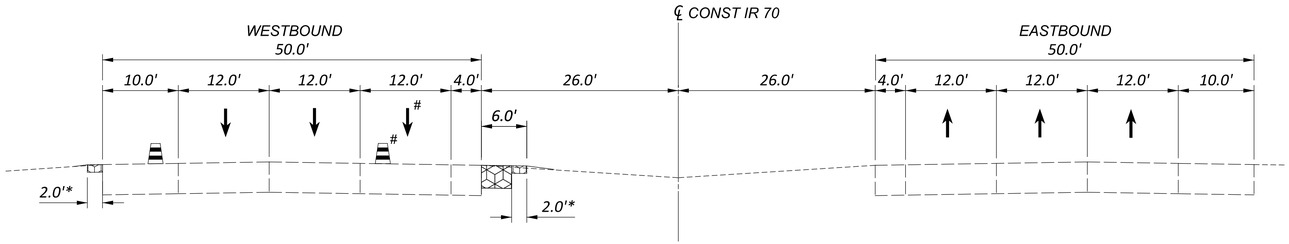
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER DMS

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.42 | TOTAL 577



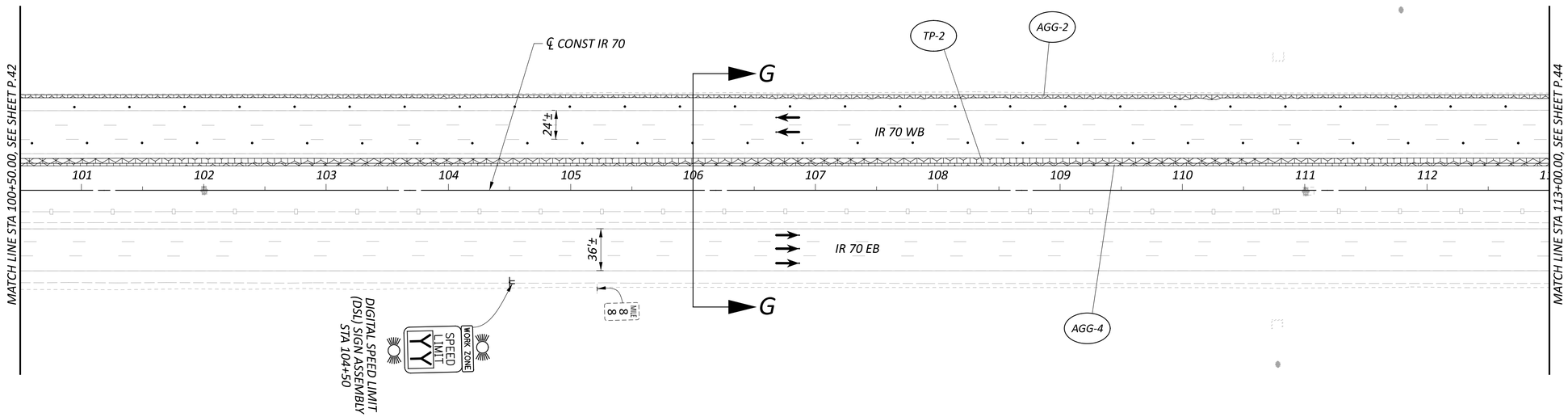
* - ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE A MINIMUM OF 6" DEEP

PRE-PHASE 1 SECTION G-G IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION G-G IR 70 - NON-WORKING HOURS #
STA 106+00

\# - OPEN INSIDE LANE, REMOVE DRUMS

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 100+50.00 TO STA 113+00.00

DESIGN AGENCY
WEPFER STRUCTUREPOINT INC.

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.43
TOTAL	577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 13 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:10 PM USER: AMerrill
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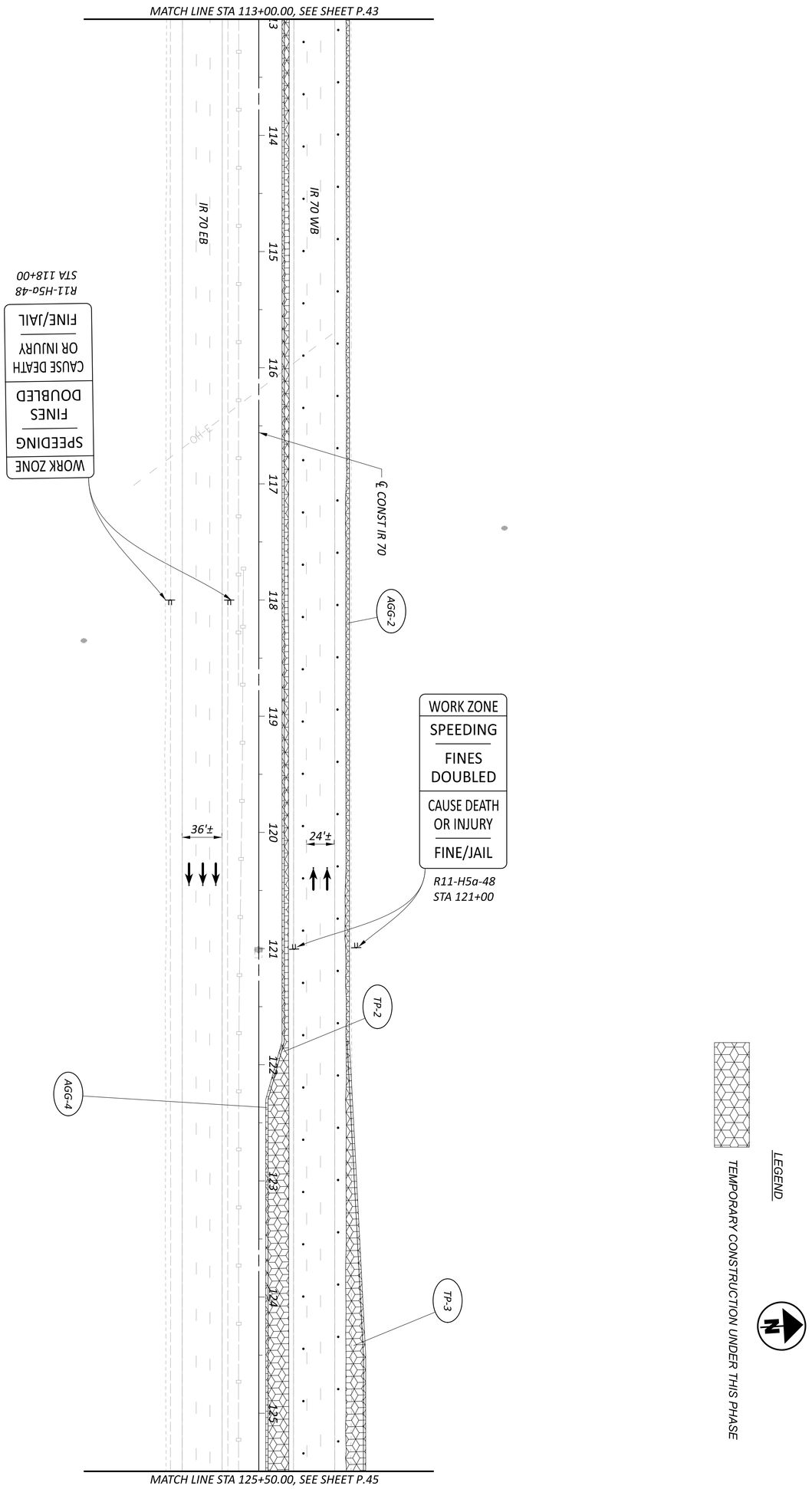


LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE

N

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE INT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 113+00.00 TO STA 125+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

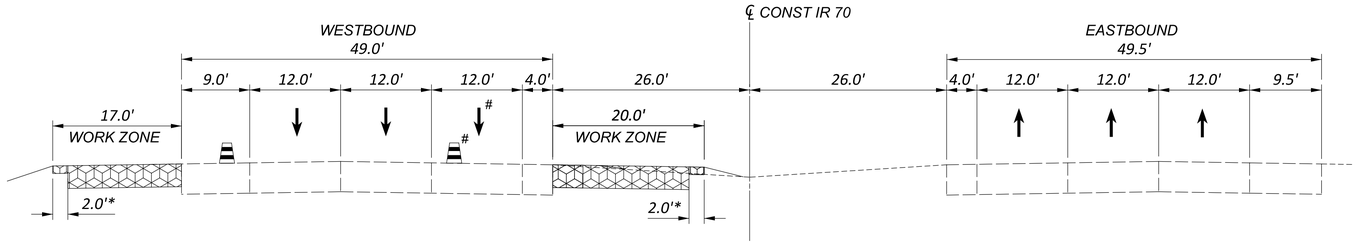
SHEET	TOTAL
P.44	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



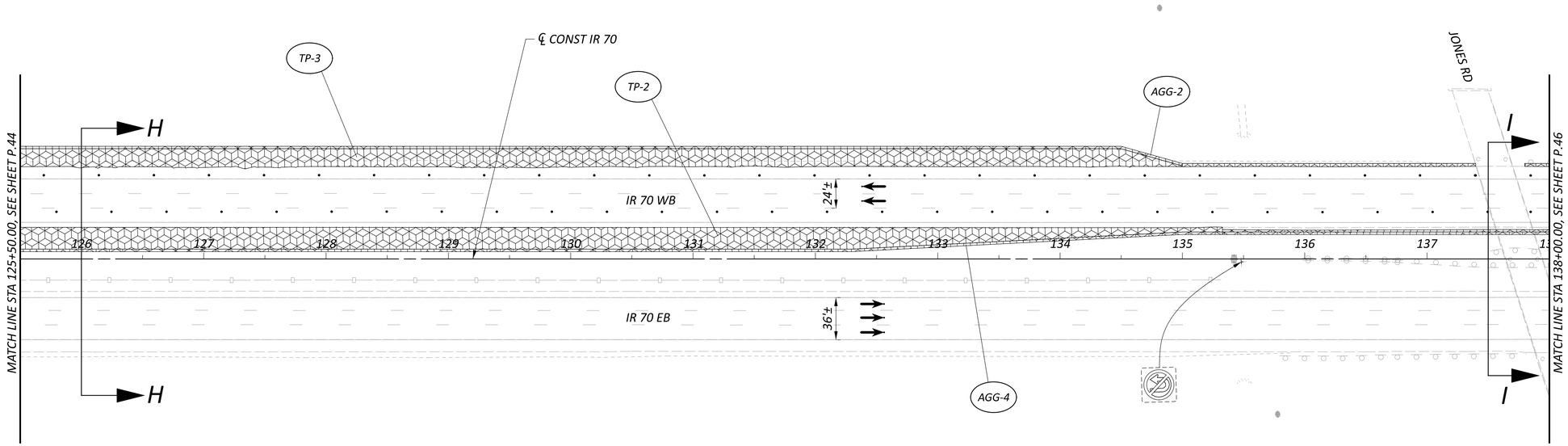
* - ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE A MINIMUM OF 6" DEEP

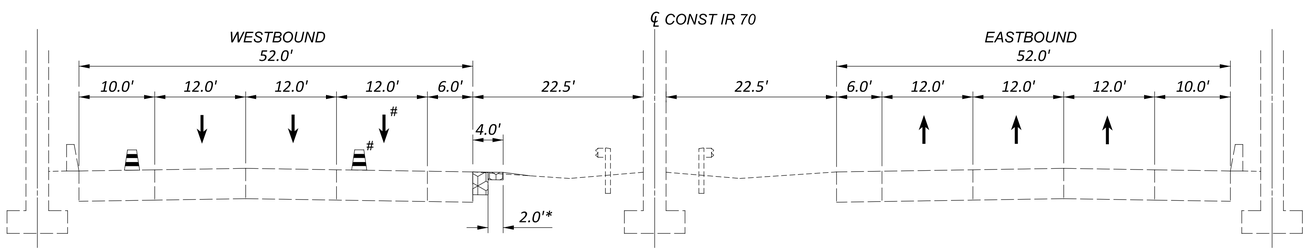
PRE-PHASE 1 SECTION H-H IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION H-H IR 70 - NON-WORKING HOURS #
STA 126+00

- OPEN INSIDE LANE, REMOVE DRUMS

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE





PRE-PHASE 1 SECTION I-I IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION I-I IR 70 - NON-WORKING HOURS #
UNDER JONES RD

- OPEN INSIDE LANE, REMOVE DRUMS

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 125+50.00 TO STA 138+00.00

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.45
TOTAL	577

FRA-70-00.00

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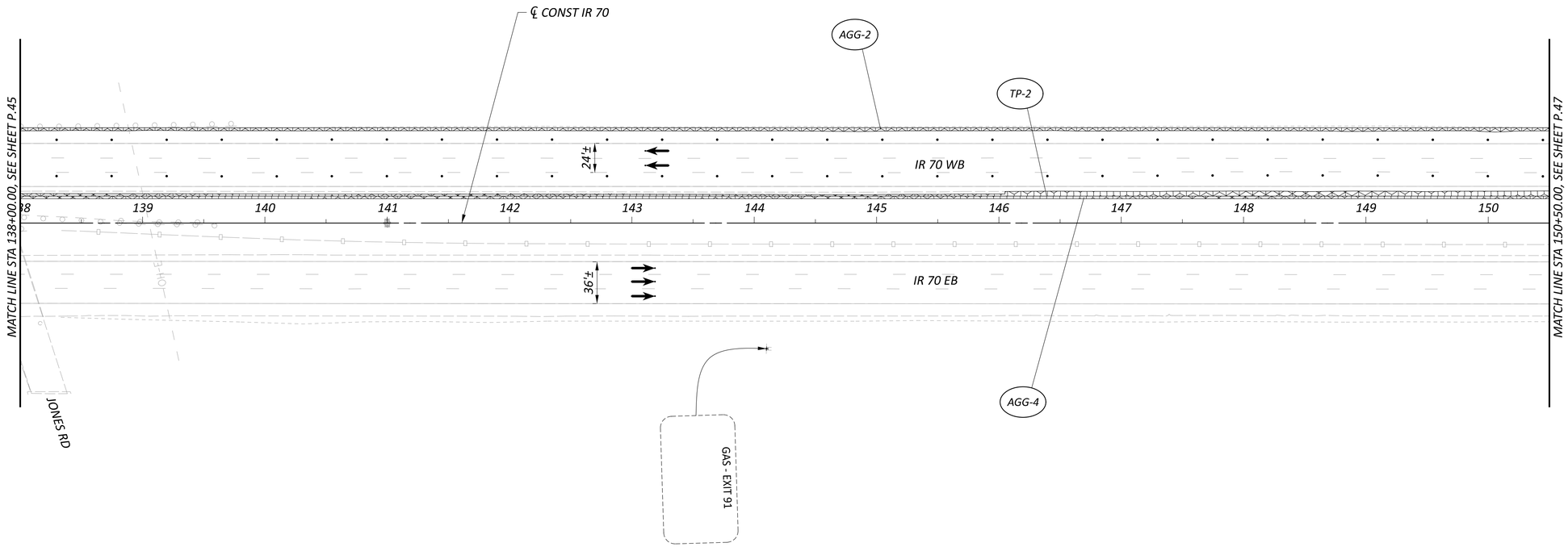
LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 138+00.00 TO STA 150+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.46 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:12 PM USER: AMerrill
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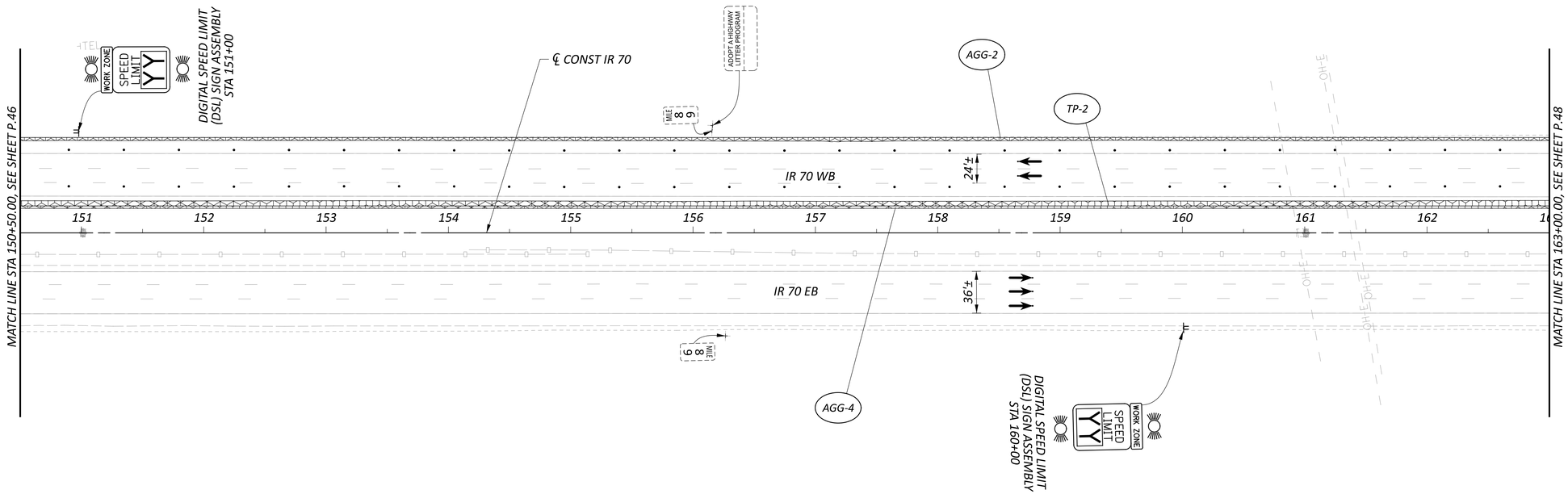
LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 150+50.00 TO STA 163+00.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.47 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 17 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:13 PM USER: AMerrill
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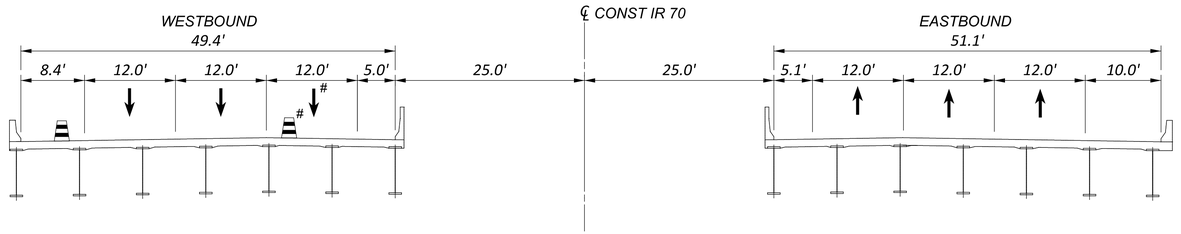
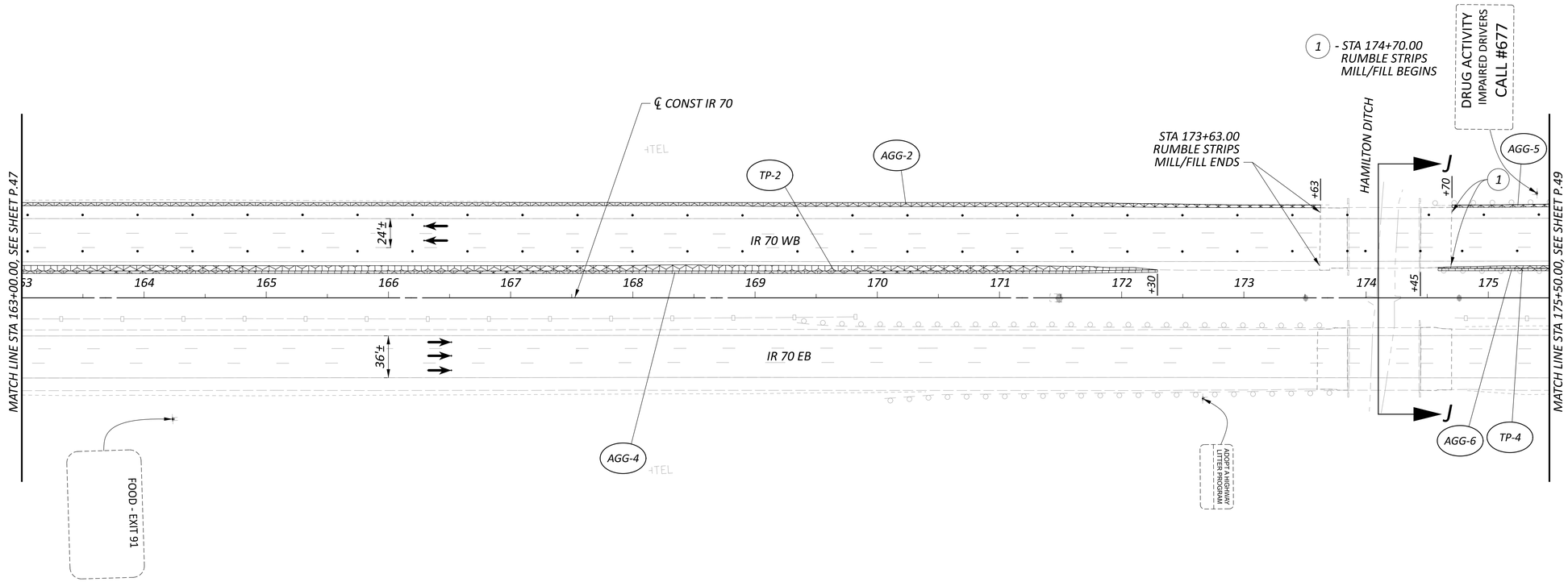


PRE-PHASE 1 SECTION J-J IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION J-J IR 70 - NON-WORKING HOURS #
OVER HAMILTON DITCH

- OPEN INSIDE LANE, REMOVE DRUMS

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 163+00.00 TO STA 175+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.48 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 1B |Sheet| PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:14 PM USER: AMerrill
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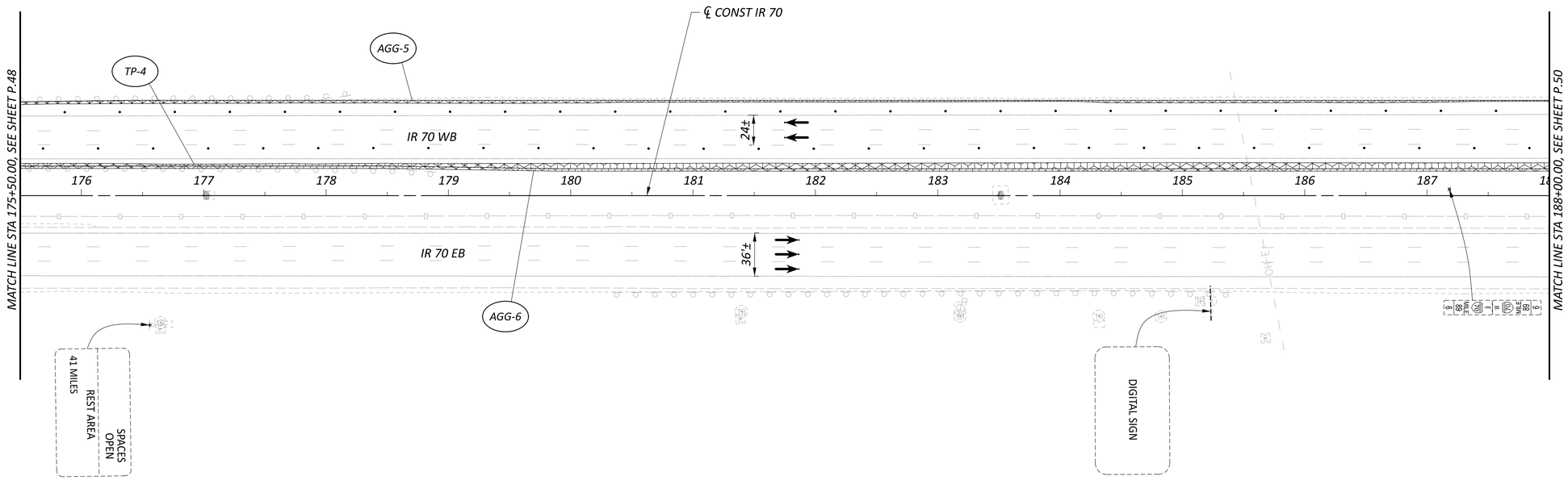
LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 175+50.00 TO STA 188+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.49 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 19 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:14 PM USER: AMerrill
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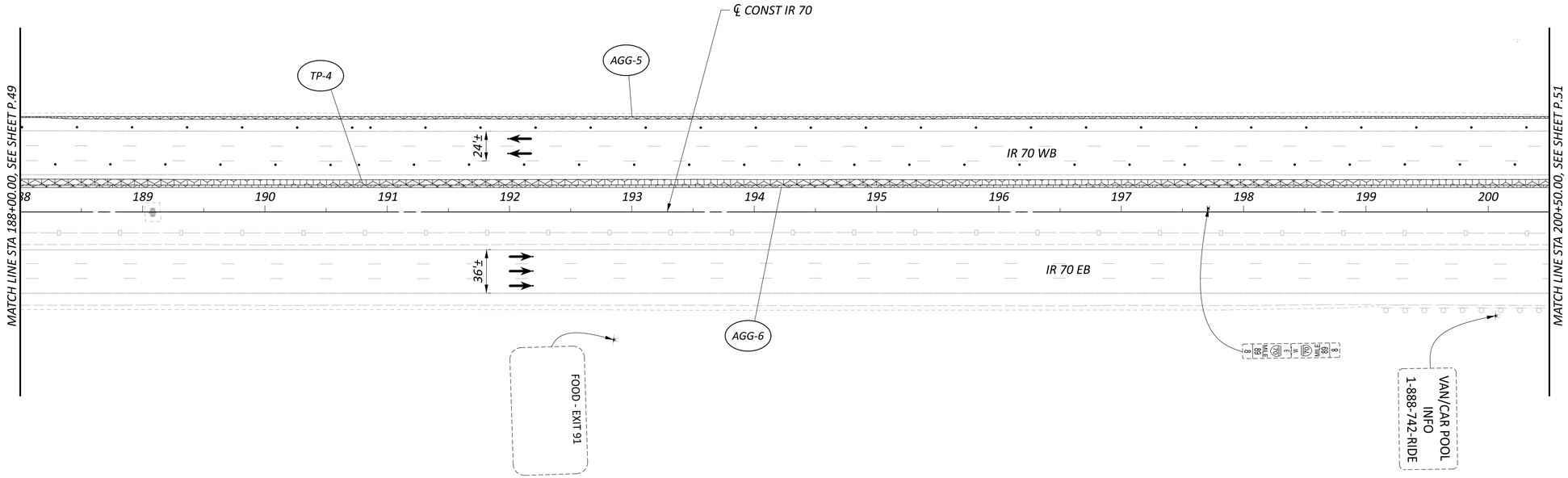
LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 188+00.00 TO STA 200+50.00

DESIGN AGENCY
WHPacific STRUCTUREPOINT INC.

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.50
TOTAL	577

FRA-70-00.00

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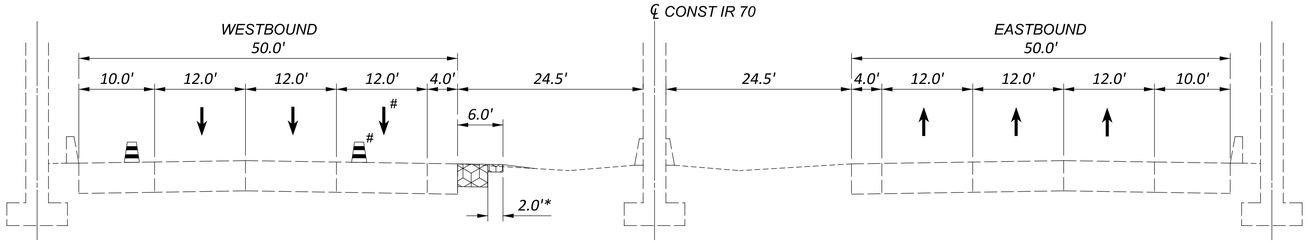


* - ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE A MINIMUM OF 6" DEEP

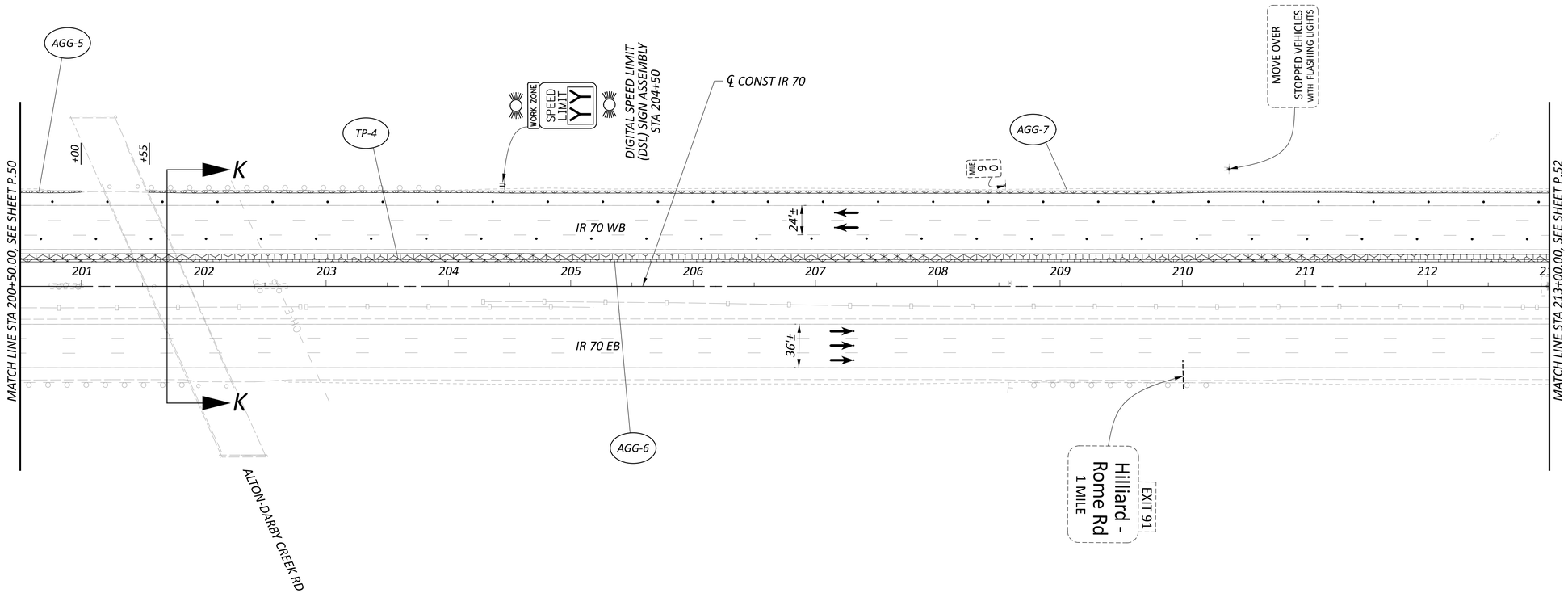
PRE-PHASE 1 SECTION K-K IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION K-K IR 70 - NON-WORKING HOURS # UNDER ALTON-DARBY CREEK RD

\# - OPEN INSIDE LANE, REMOVE DRUMS

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE

HORIZONTAL SCALE IN FEET
0 25 50 100



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 200+50.00 TO STA 213+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER DMS

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.51 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 21 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:15 PM USER: AMerrill
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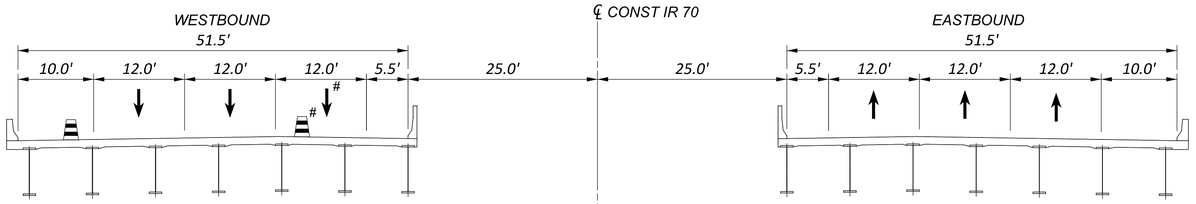
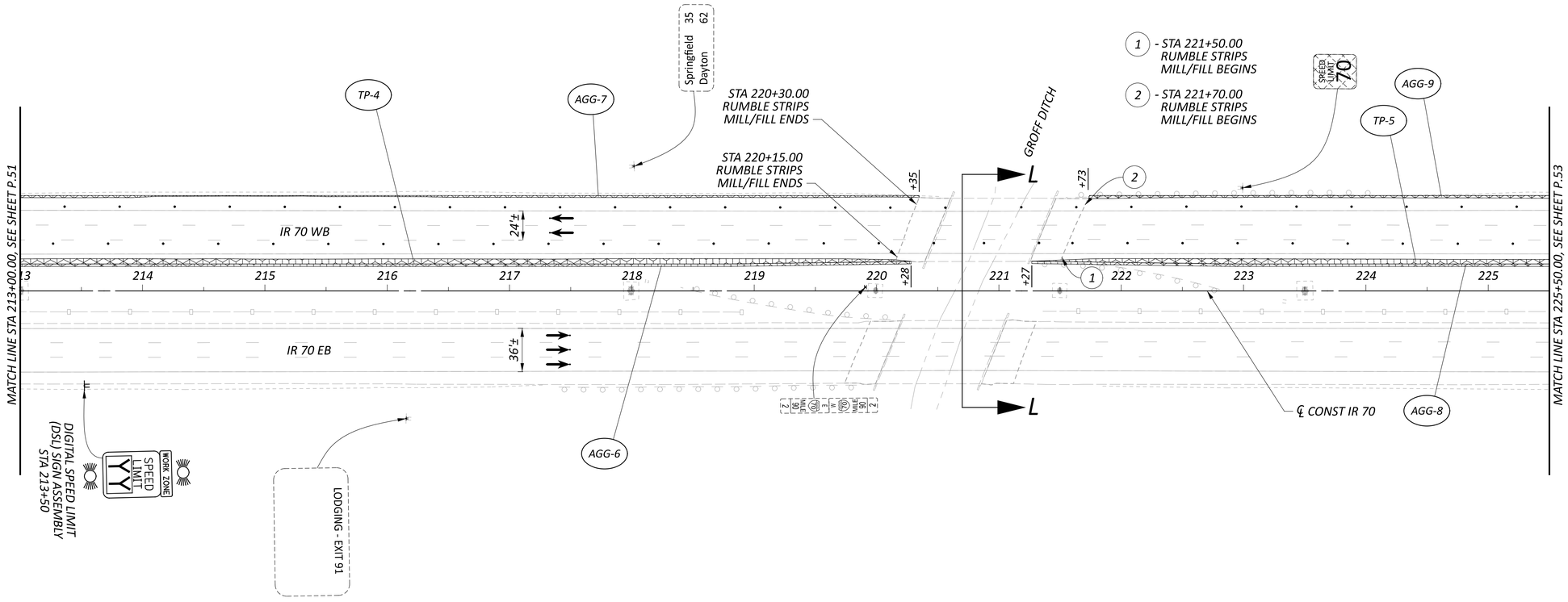


PRE-PHASE 1 SECTION L-L IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION L-L IR 70 - NON-WORKING HOURS # OVER GROFF DITCH

- OPEN INSIDE LANE, REMOVE DRUMS

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 213+00.00 TO STA 225+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.52 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 22 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:16 PM USER: AMerrill
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MODEL: MOT_I70 - MOT PRE-PHASE 23 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:17 PM USER: AMerrill
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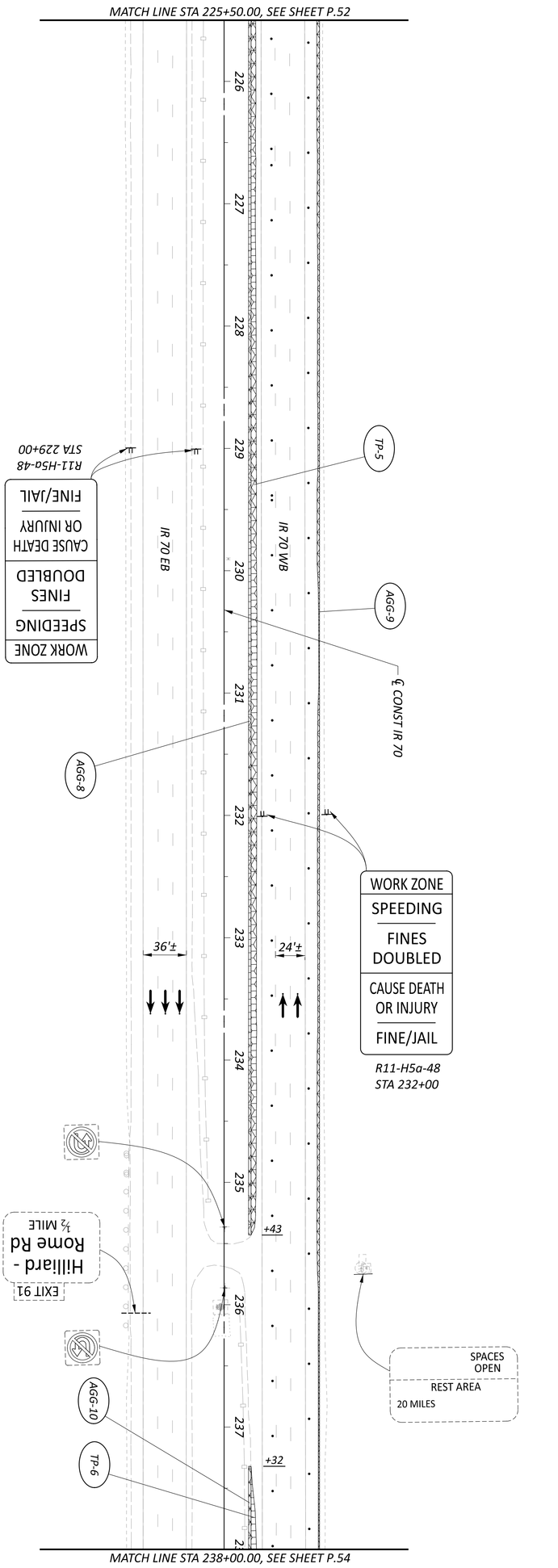


WORK ZONE
SPEEDING
FINES DOUBLED
CAUSE DEATH OR INJURY
FINE/JAIL

R11-H5a-48
STA 232+00

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 225+50.00 TO STA 238+00.00

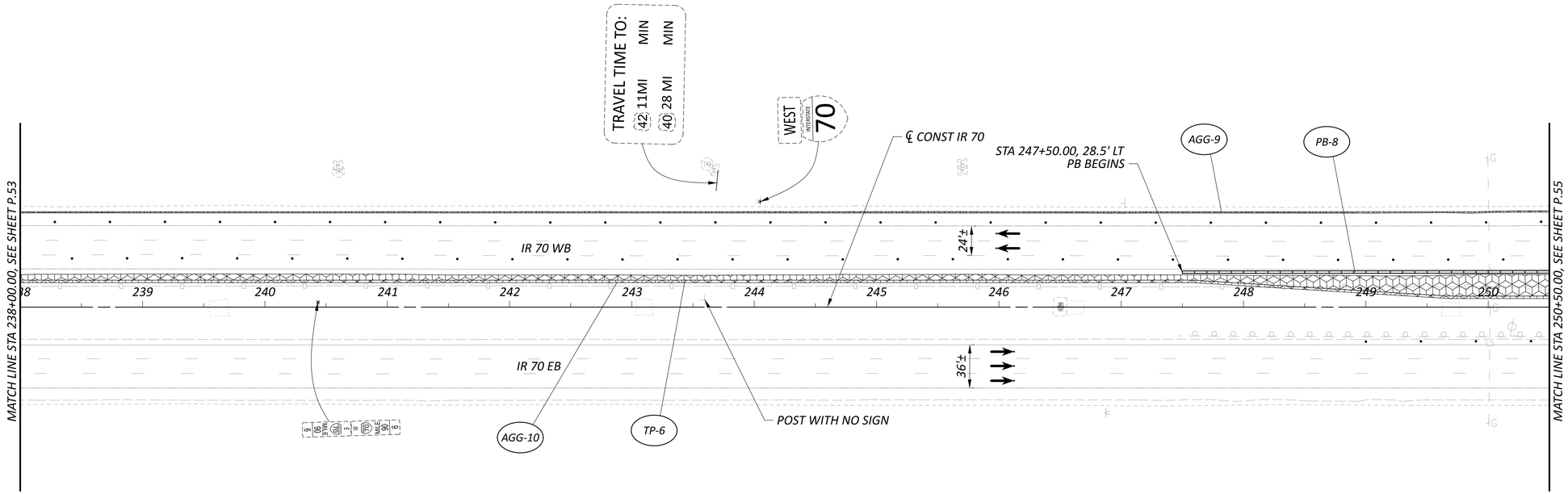
HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.53	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 238+00.00 TO STA 250+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.54 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 24 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:17 PM USER: AMerrill
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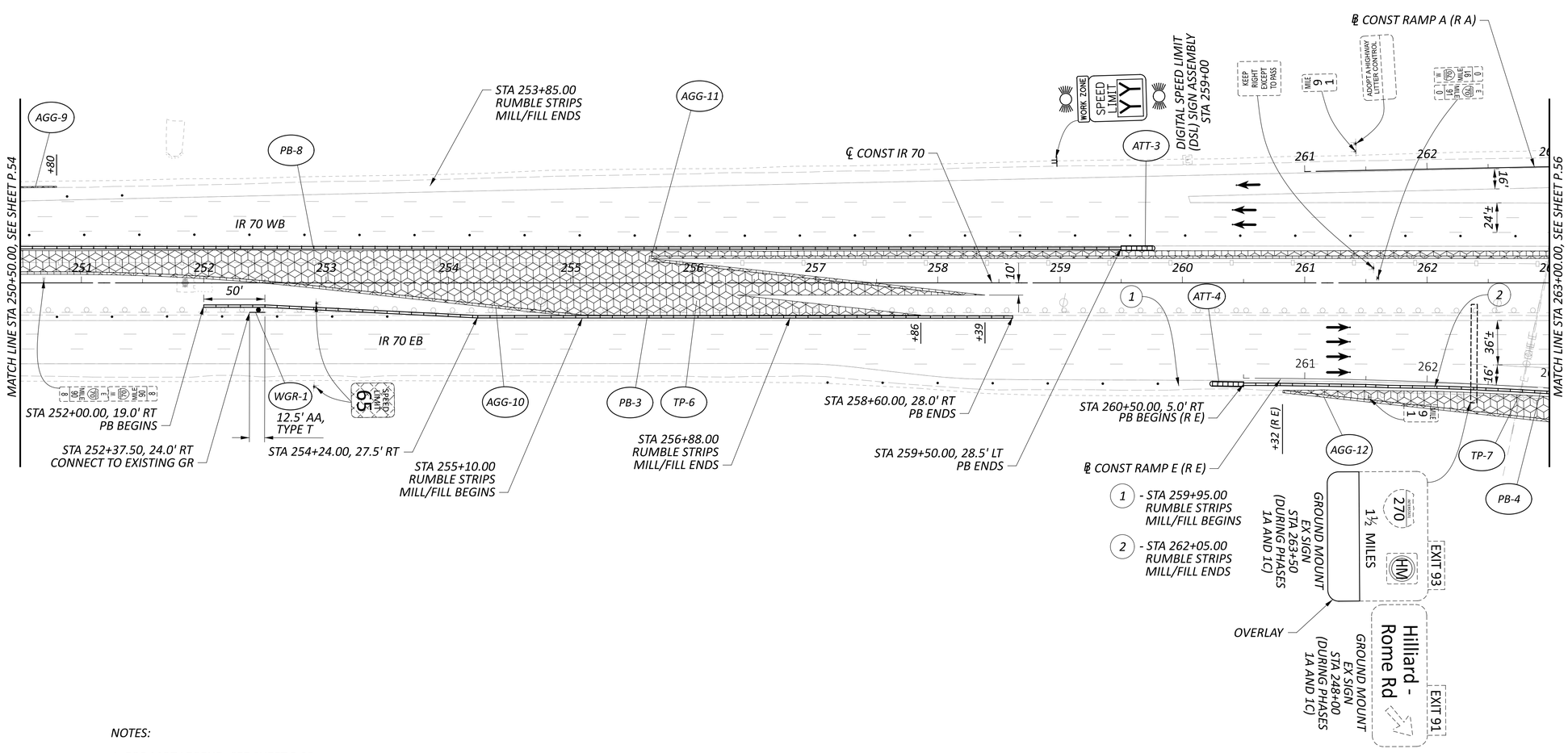

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 250+50.00 TO STA 263+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.55
TOTAL	577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 2S [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:18 PM USER: AMerrill
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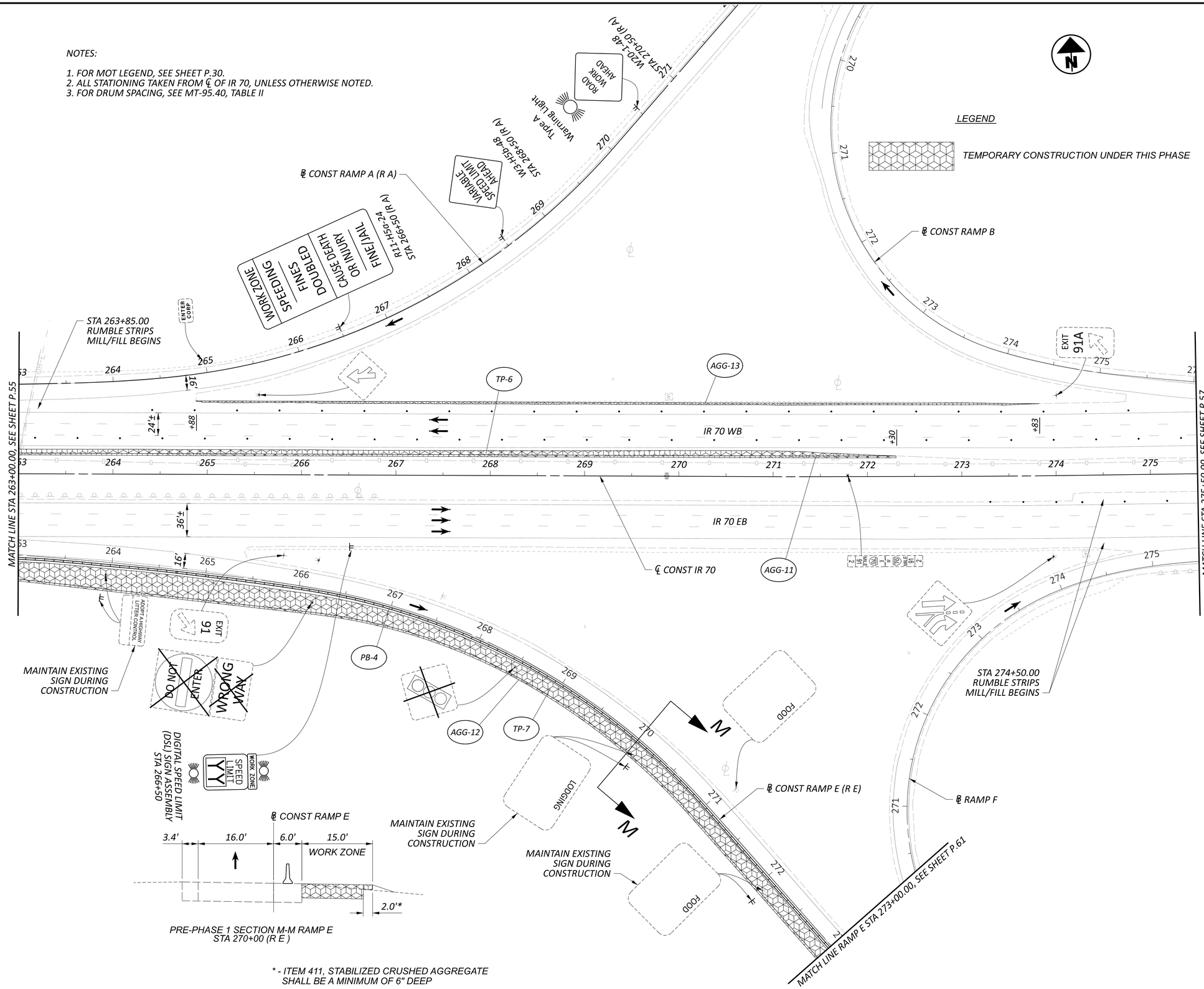
NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II



* - ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE A MINIMUM OF 6" DEEP

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 263+00.00 TO STA 275+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.56 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 26 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:19 PM USER: AMerrill
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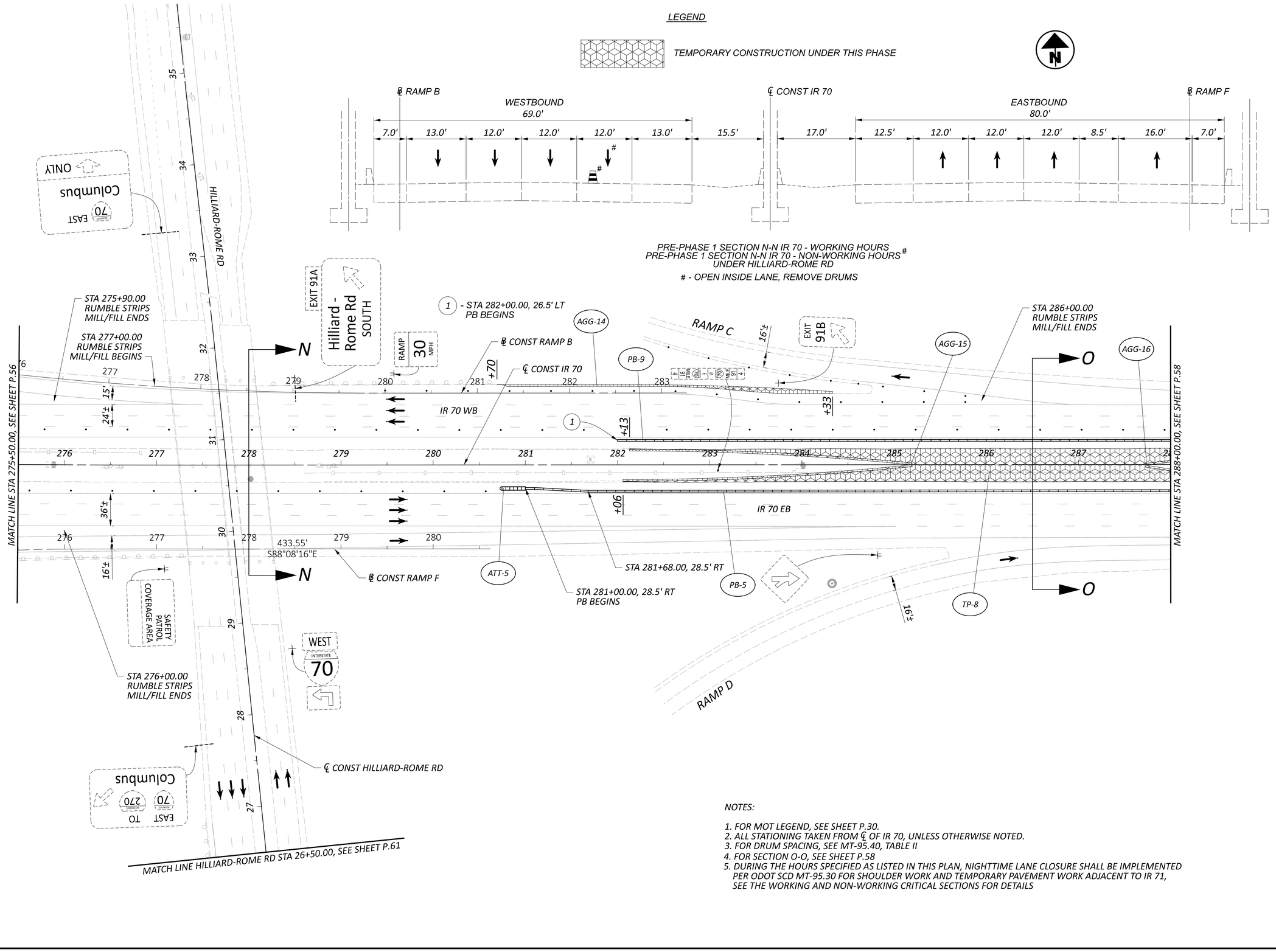

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR SECTION O-O, SEE SHEET P.58
5. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 275+50.00 TO STA 288+00.00

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 27 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:21 PM USER: AMerrill
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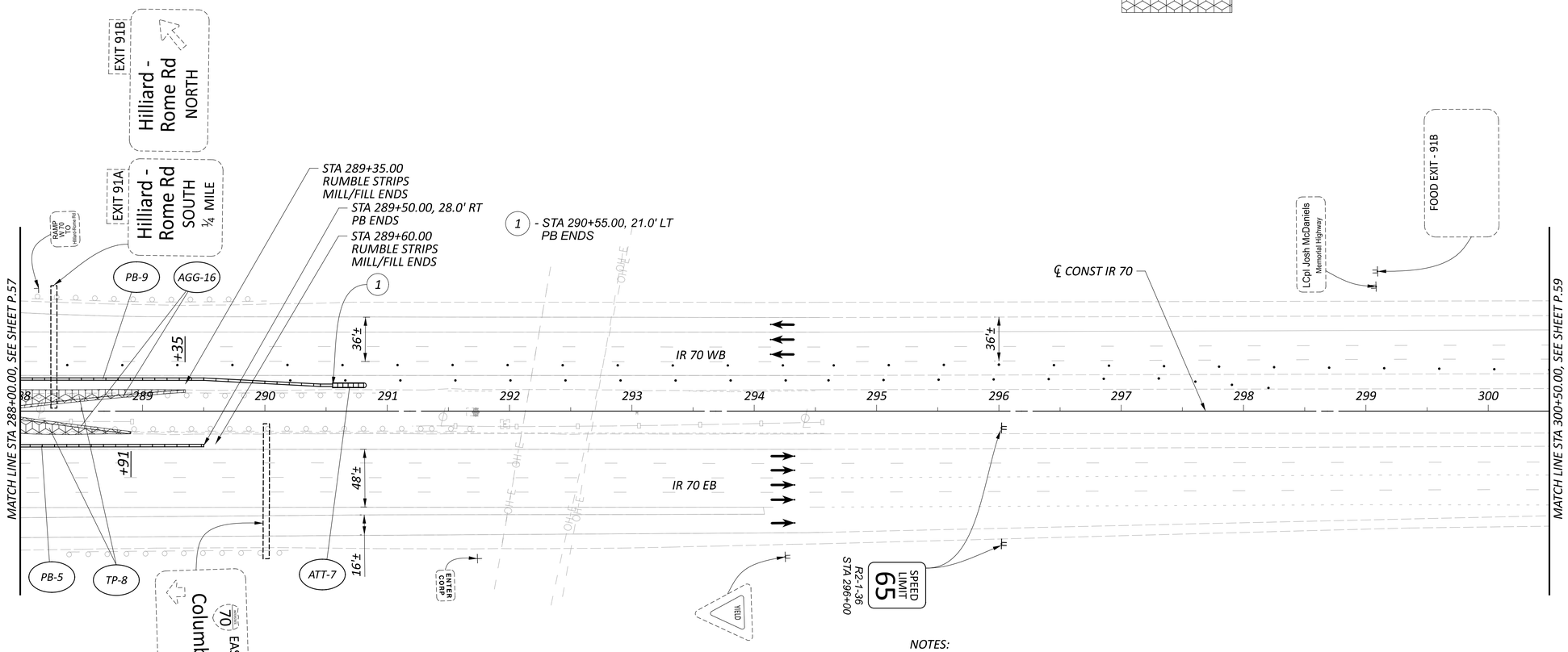
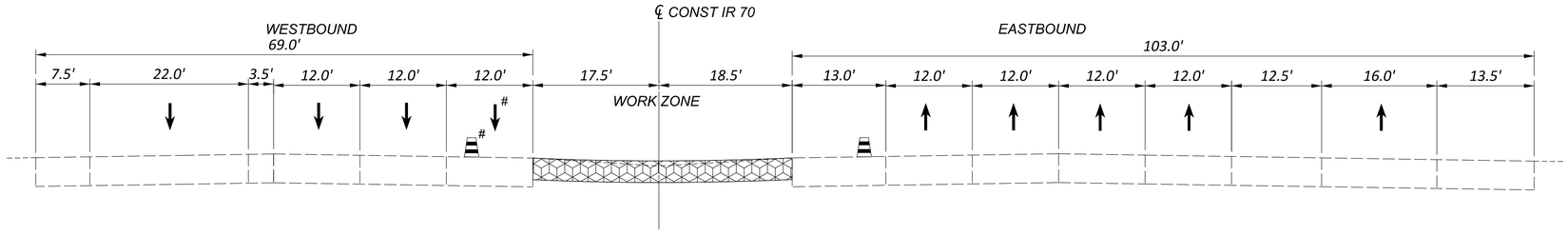
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.57
TOTAL	577



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING THE HOURS SPECIFIED AS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURE SHALL BE IMPLEMENTED PER ODOT SCD MT-95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 71, SEE THE WORKING AND NON-WORKING CRITICAL SECTIONS FOR DETAILS



PRE-PHASE 1 SECTION O-O IR 70 - WORKING HOURS
PRE-PHASE 1 SECTION O-O IR 70 - NON- WORKING HOURS #
STA 286+50

- OPEN INSIDE LANE, REMOVE DRUMS

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 288+00.00 TO STA 300+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.58 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PRE-PHASE 28 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:22 PM USER: AMerrill
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MODEL: MOT_I70 - MOT PRE-PHASE 29 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:22 PM USER: AMerrill
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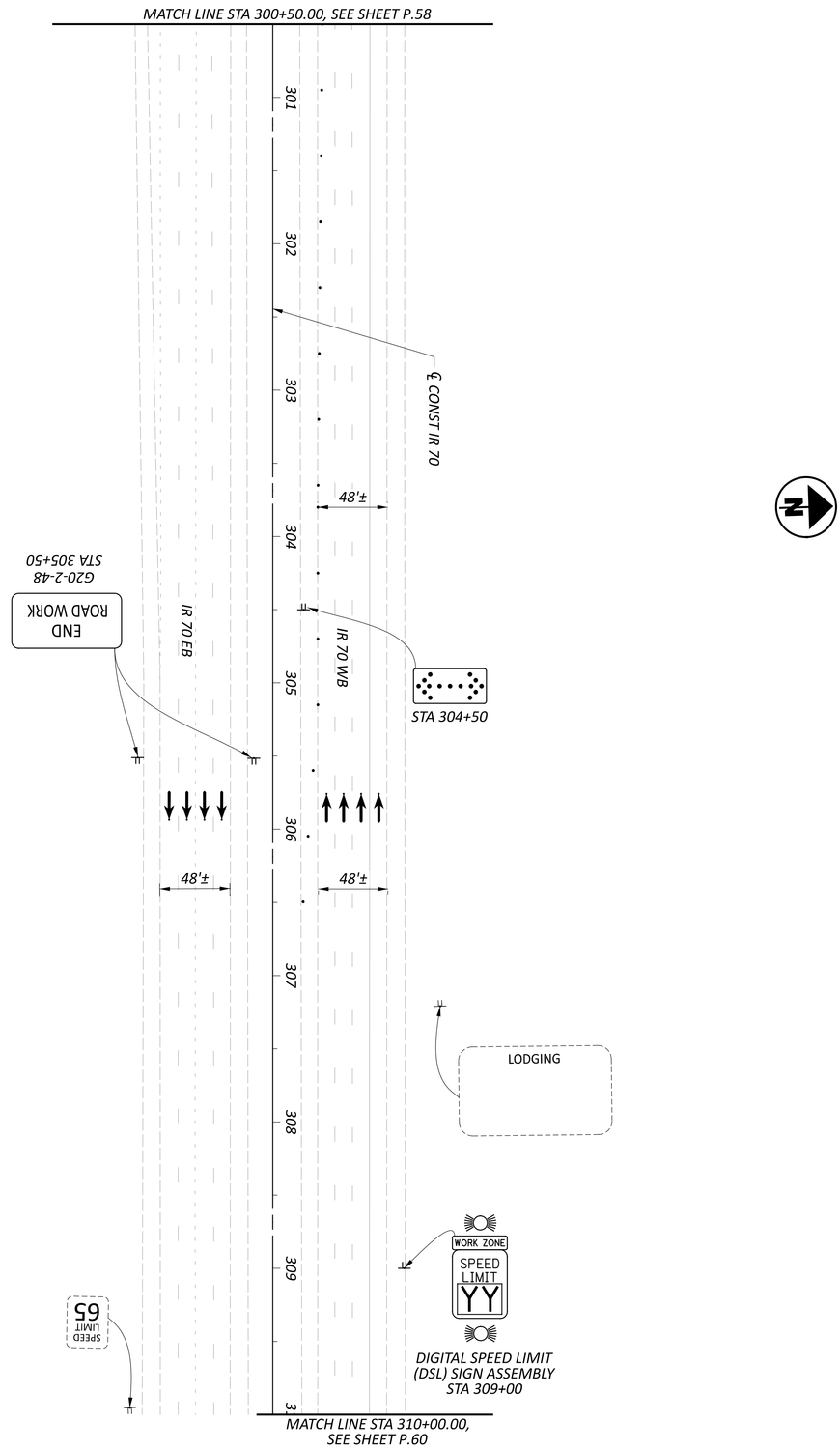


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

SHEET	TOTAL
P.59	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

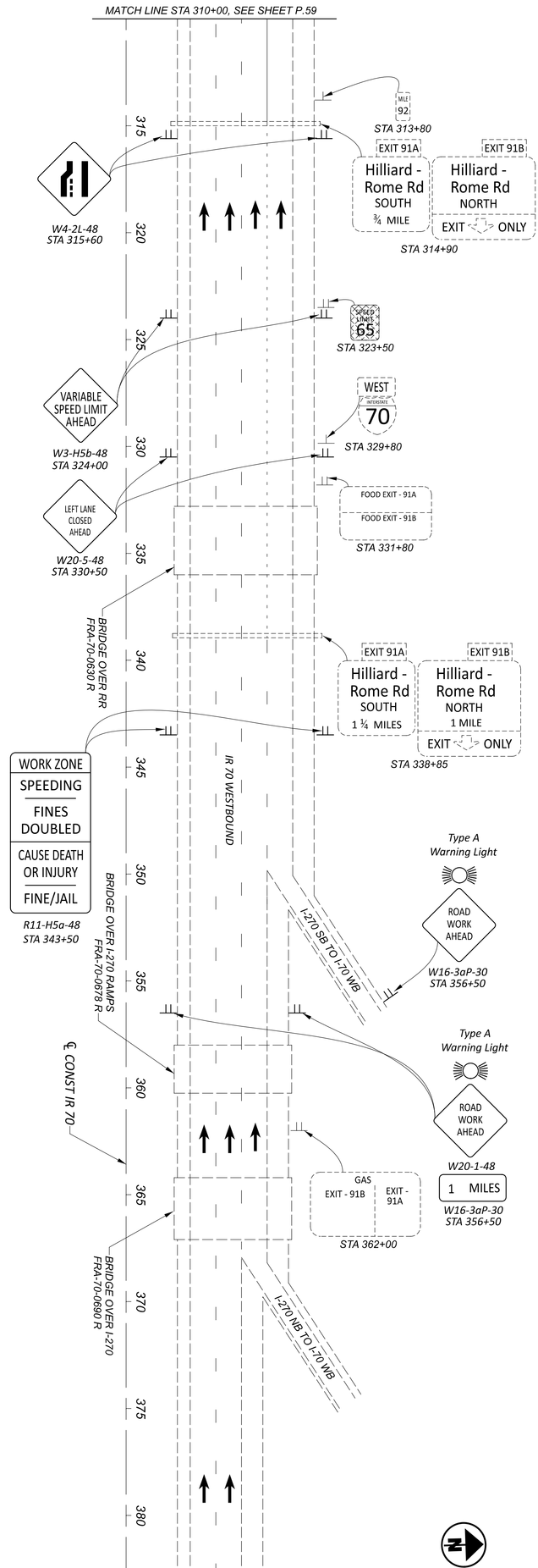
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 300+50.00 TO STA 310+00.00

HORIZONTAL SCALE IN FEET

0 50
25 100

MODEL: ADVANCED SIGNS 2 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:23 PM USER: AMerrill
O:\2023\00711\C. Design\116949_FRA-70-0.00\400-Engineering\MOT\Sheets\116949_MP100.dgn



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

SHEET	TOTAL
P.60	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

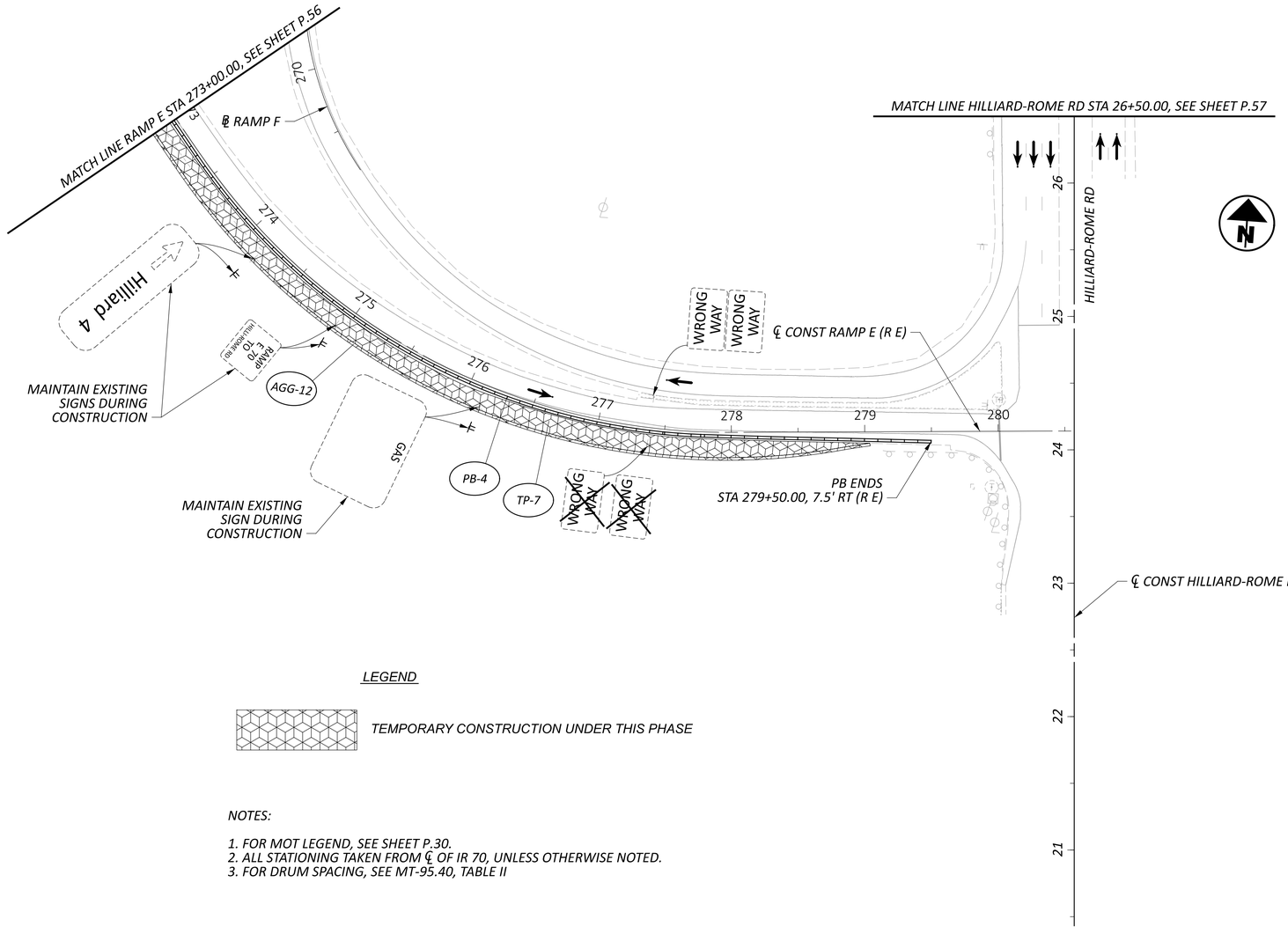
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PRE-PHASE 1
STA 310+00.00 TO STA 380+00.00

HORIZONTAL SCALE IN FEET

0 300

150 600



LEGEND

TEMPORARY CONSTRUCTION UNDER THIS PHASE

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PRE-PHASE 1
RAMP E STA 273+00.00 TO STA 280+57.11

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.61 TOTAL 577

FRA-70-00.00

MODEL: Hilliard Rome 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:24 PM USER: AMerrill
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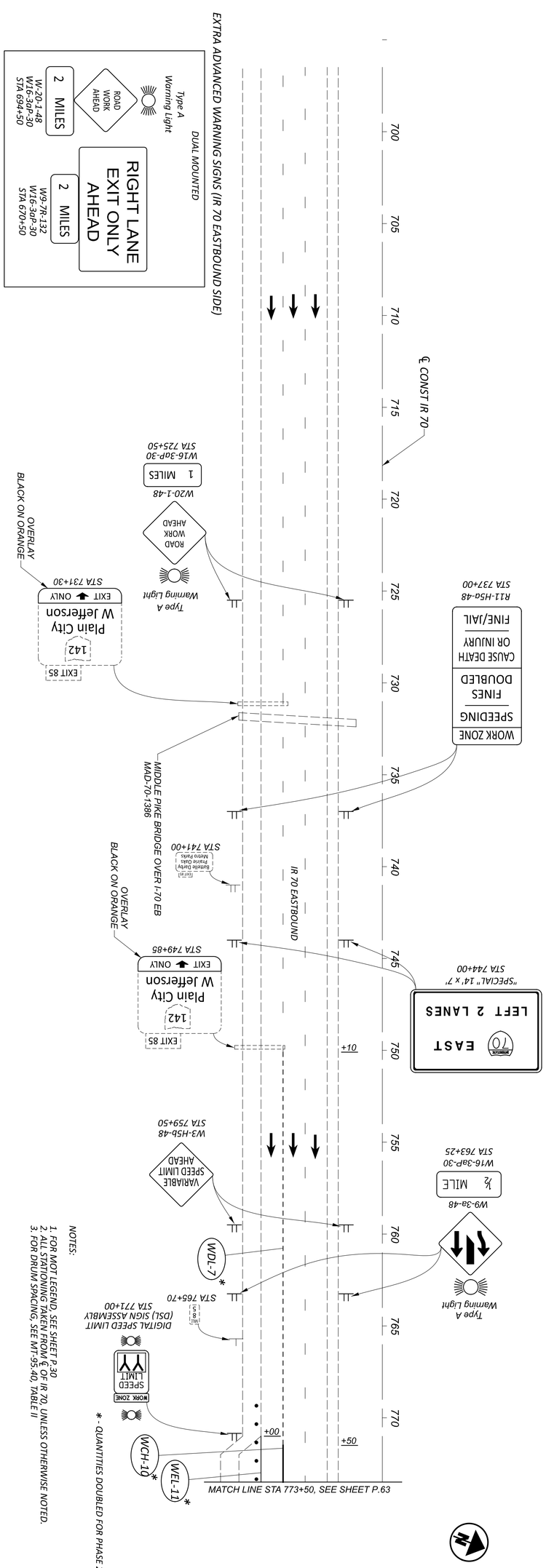

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 700+00.00 TO STA 773+50.00

HORIZONTAL SCALE IN FEET
0 300
150 600

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.62	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MOT_I70 - MOT PHASE 1 STEP A 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:29 PM USER: AMerrill
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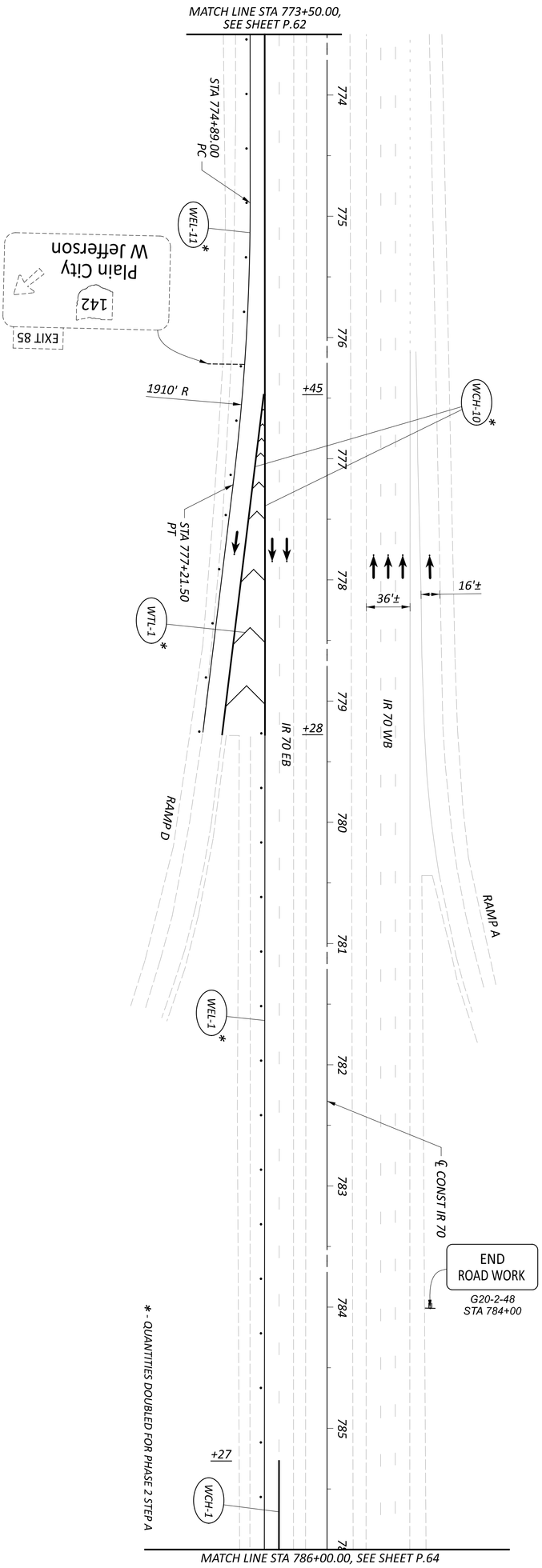


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 773+50.00 TO STA 786+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

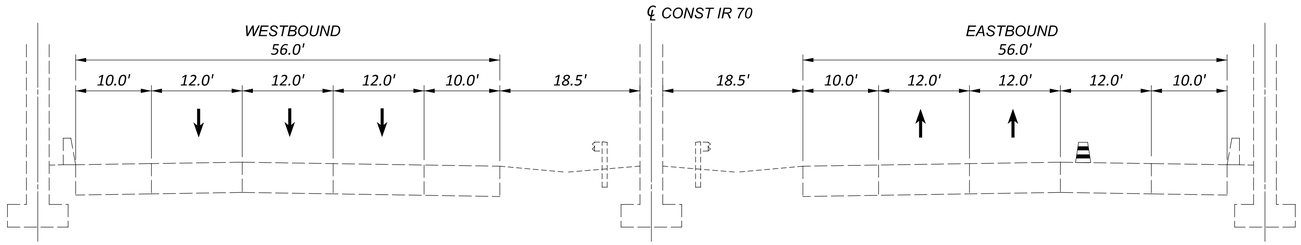
SHEET	TOTAL
P.63	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

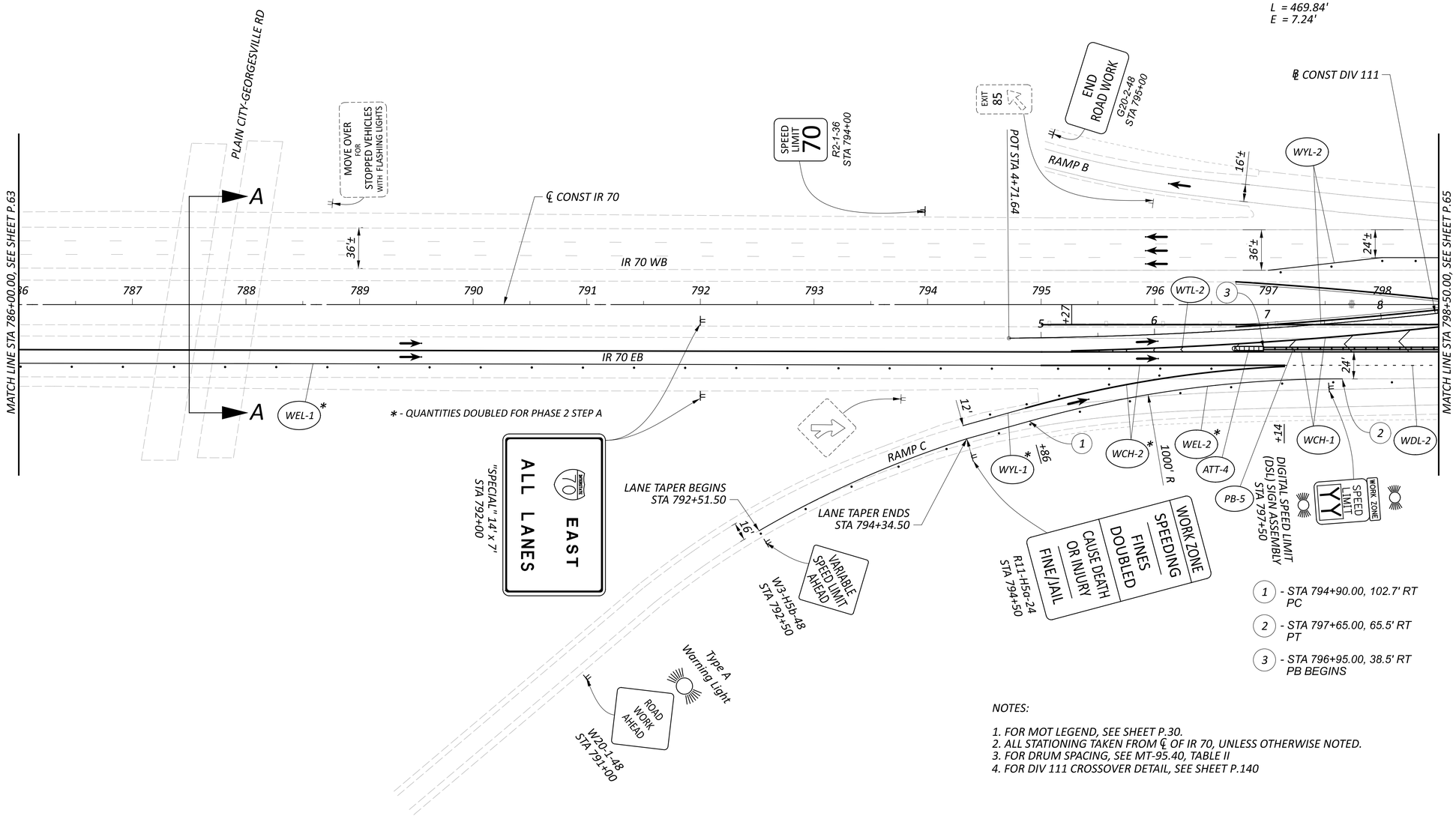
DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



PHASES 1 AND 2 STEP A SECTION A-A IR 70
UNDER PLAIN CITY-GEORGESVILLE RD

CURVE DATA (DIV 111)
PI = STA 7+06.86
Δ = 07°02'51" LT
Dc = 01°30'00"
R = 3,819.72'
T = 235.22'
L = 469.84'
E = 7.24'



1 - STA 794+90.00, 102.7' RT PC

2 - STA 797+65.00, 65.5' RT PT

3 - STA 796+95.00, 38.5' RT PB BEGINS

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 111 CROSSOVER DETAIL, SEE SHEET P.140

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 786+00.00 TO STA 798+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER: DMS
REVIEWER: AJL 08/23/24
PROJECT ID: 116949
SHEET: P.64 TOTAL: 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:29 PM USER: AMerrill
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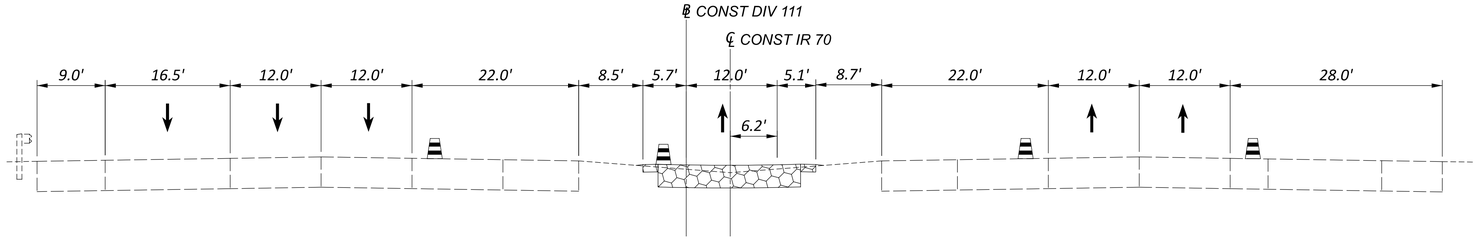


PHASE 1 STEP A SECTION B-B IR 70
STA 799+60

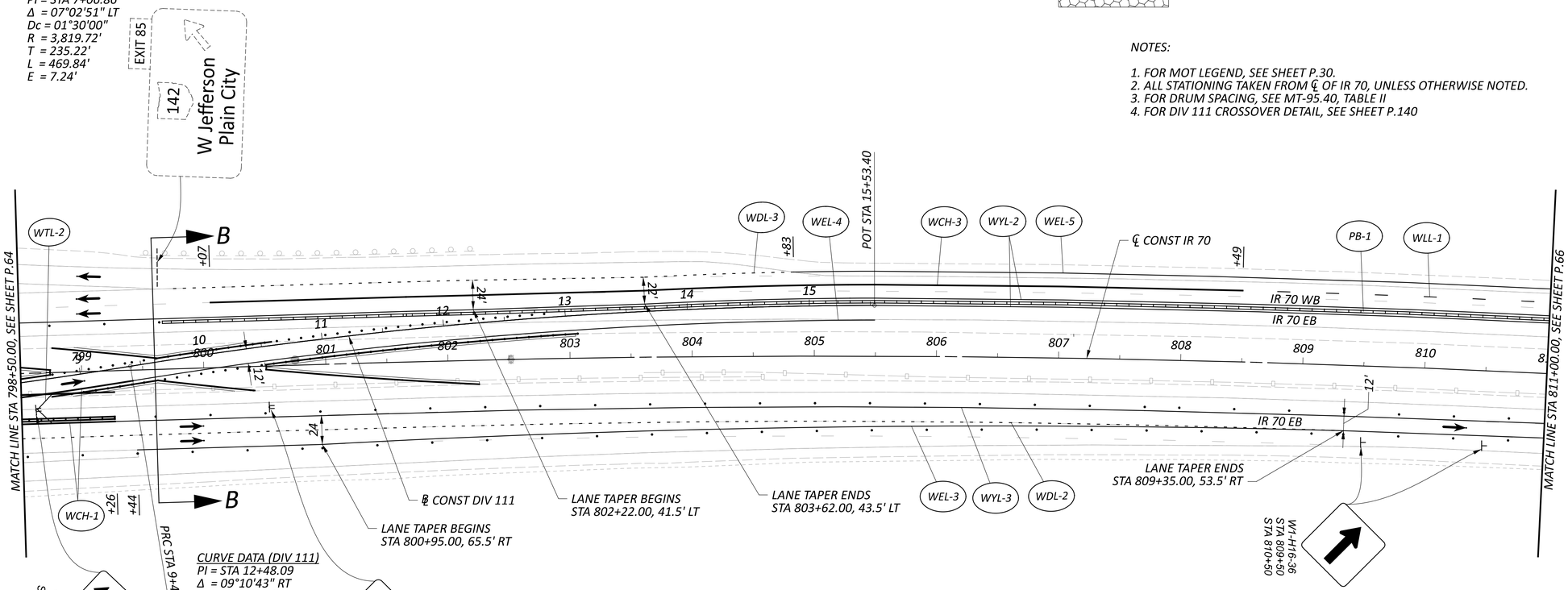
LEGEND

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)

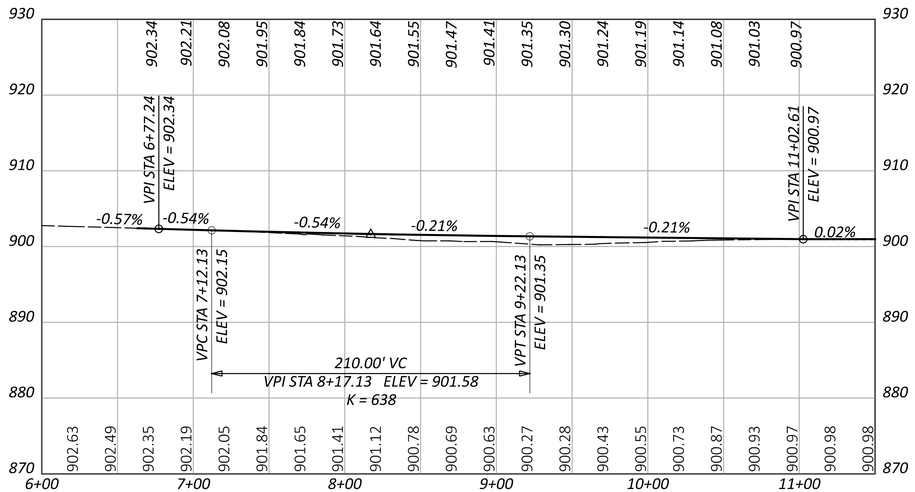
NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 111 CROSSOVER DETAIL, SEE SHEET P.140

CURVE DATA (DIV 111)
PI = STA 7+06.86
Δ = 07°02'51" LT
Dc = 01°30'00"
R = 3,819.72'
T = 235.22'
L = 469.84'
E = 7.24'



CURVE DATA (DIV 111)
PI = STA 12+48.09
Δ = 09°10'43" RT
Dc = 01°30'00"
R = 3,819.72'
T = 306.61'
L = 611.91'
E = 12.29'



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, C, D
STA 798+50.00 TO STA 811+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.65
TOTAL	577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 3 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:30 PM USER: AMerrill
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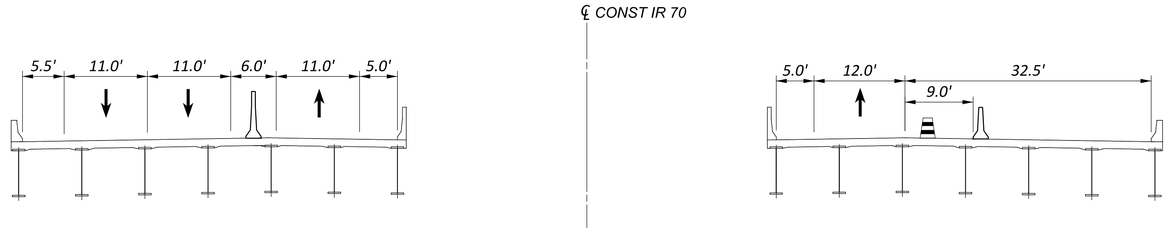
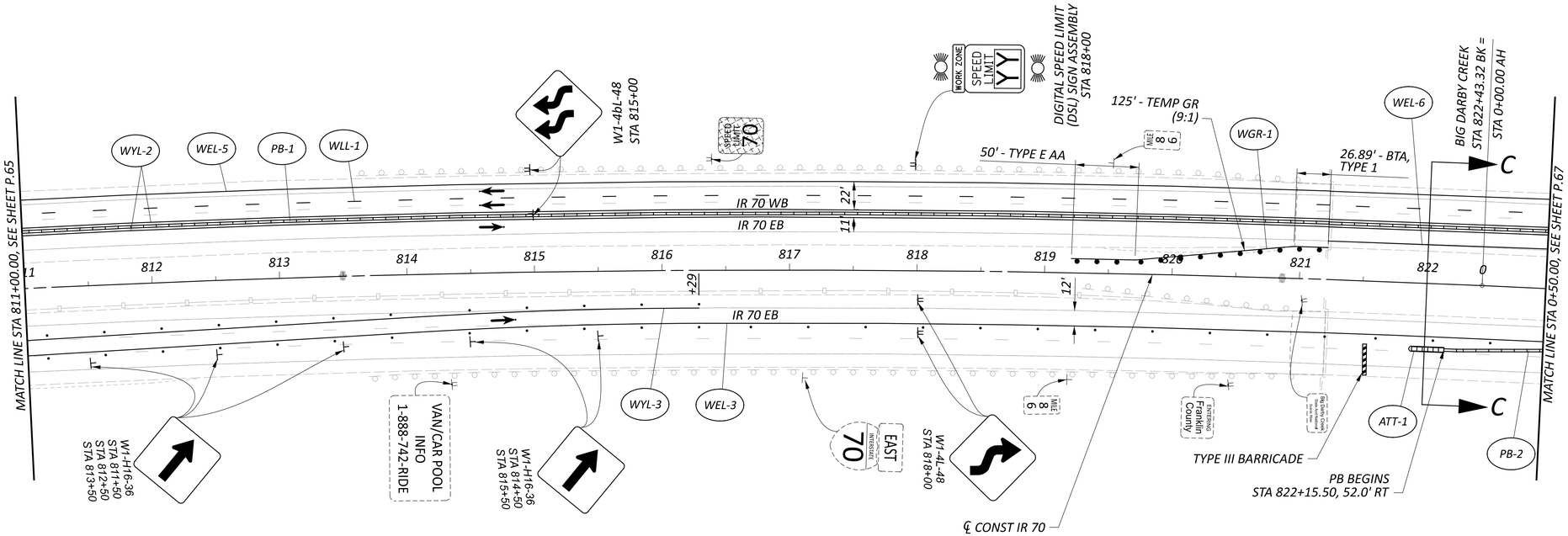


PHASE 1 STEP A SECTION C-C IR 70
OVER BIG DARBY CREEK



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, C
STA 811+00.00 TO STA 0+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.66 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:32 PM USER: AMerrill
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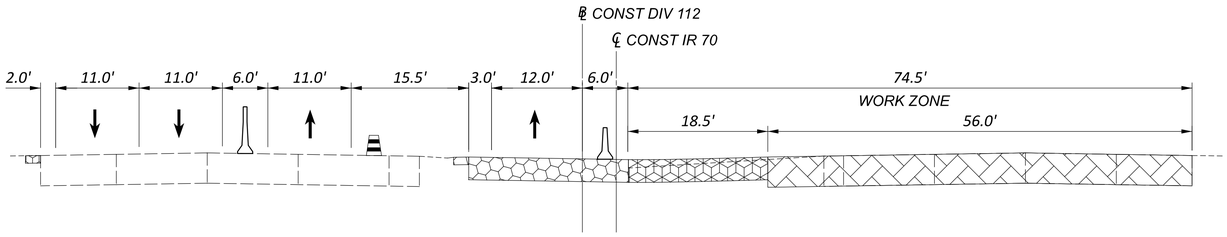


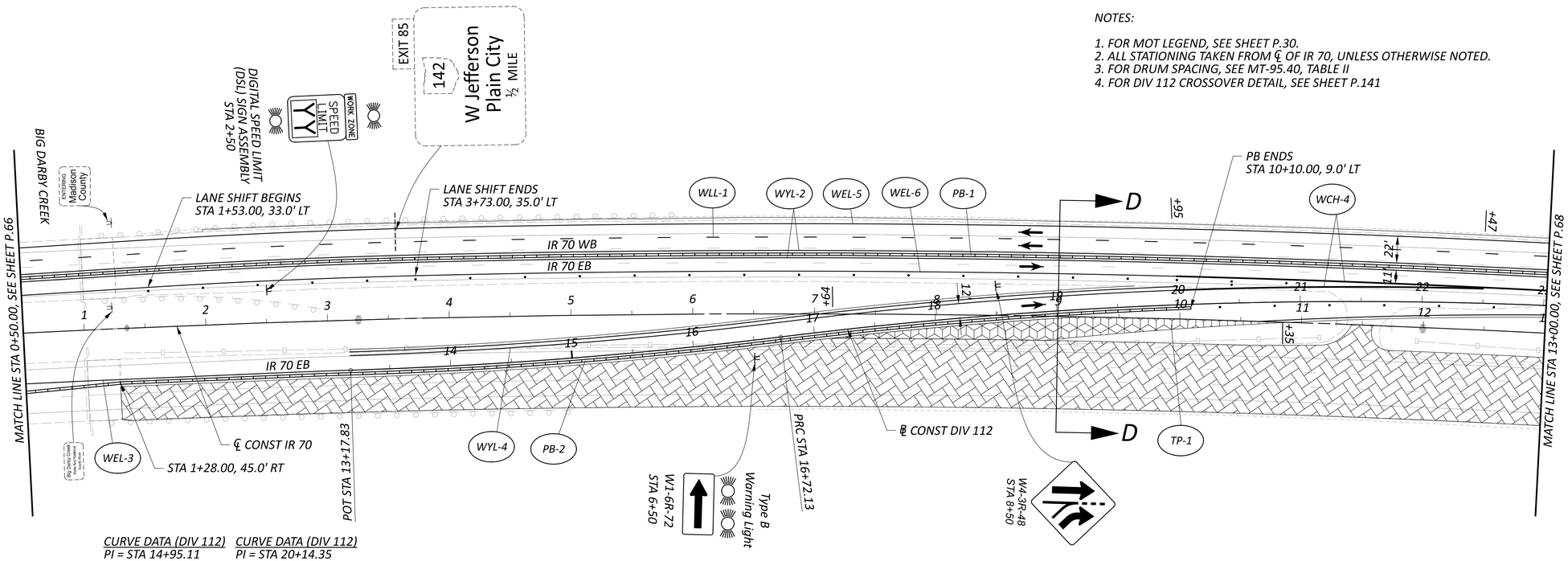
PHASE 1 STEP A SECTION D-D IR 70
STA 9+00

LEGEND

- CONSTRUCTION UNDER THIS PHASE
- TEMPORARY CONSTRUCTION UNDER THIS PHASE
- TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)

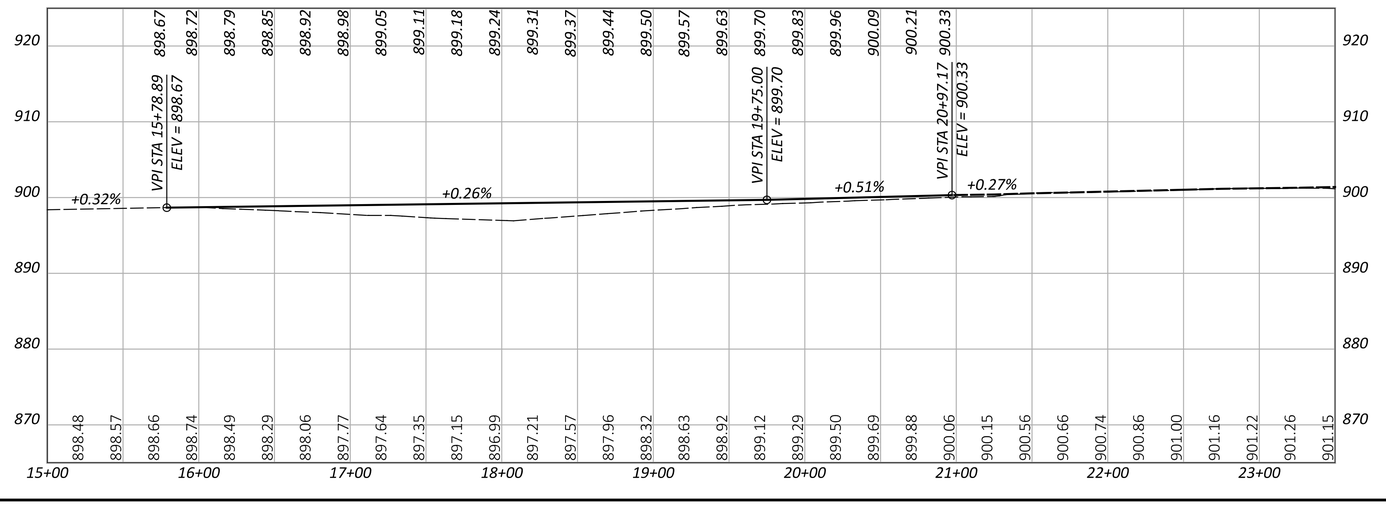
NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTIFIED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 112 CROSSOVER DETAIL, SEE SHEET P.141



CURVE DATA (DIV 112)
PI = STA 14+95.11
Δ = 05°18'52" LT
Dc = 01°30'00"
R = 3,819.72'
T = 177.28'
L = 354.30'
E = 4.11'

CURVE DATA (DIV 112)
PI = STA 20+14.35
Δ = 10°14'21" RT
Dc = 01°30'00"
R = 3,819.72'
T = 342.22'
L = 682.62'
E = 15.3'



FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:32 PM USER: AMerrill
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HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, C
STA 0+50.00 TO STA 13+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.67 TOTAL 577

MODEL: MOT_I70 - MOT PHASE 1 STEP A 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:34 PM USER: AMerrill
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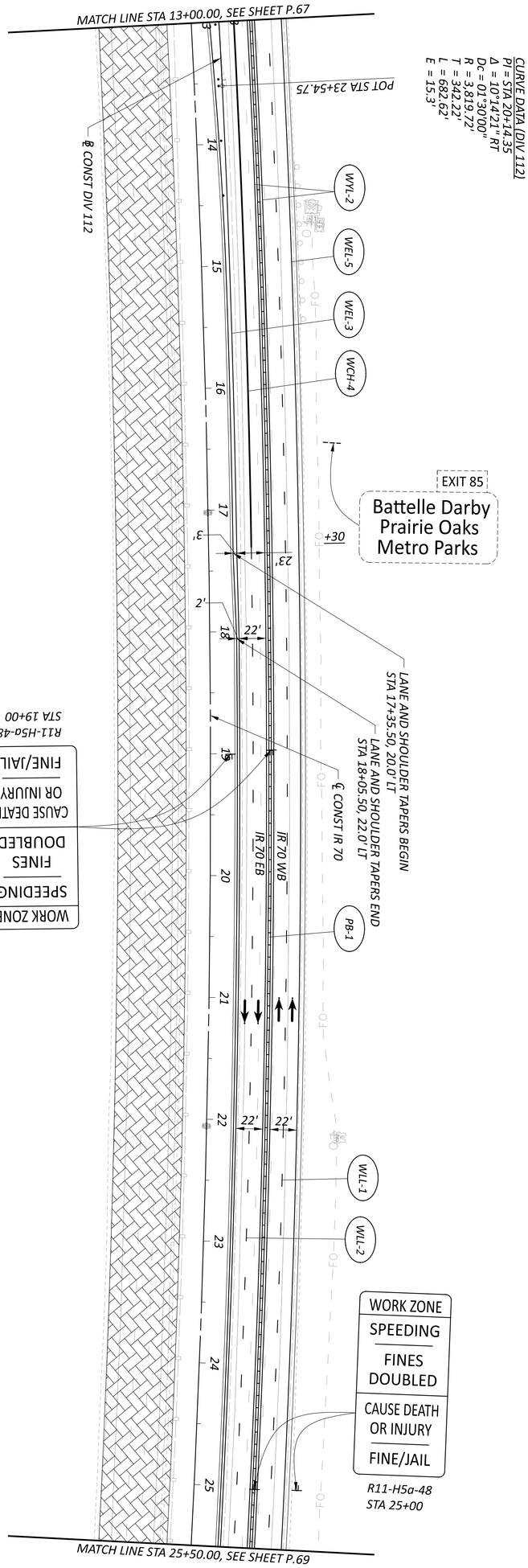

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 112 CROSSOVER DETAIL, SEE SHEET P.141

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, C
STA 13+00.00 TO STA 25+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.68	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MOT_I70 - MOT PHASE 1 STEP A 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:34 PM USER: AMerrill
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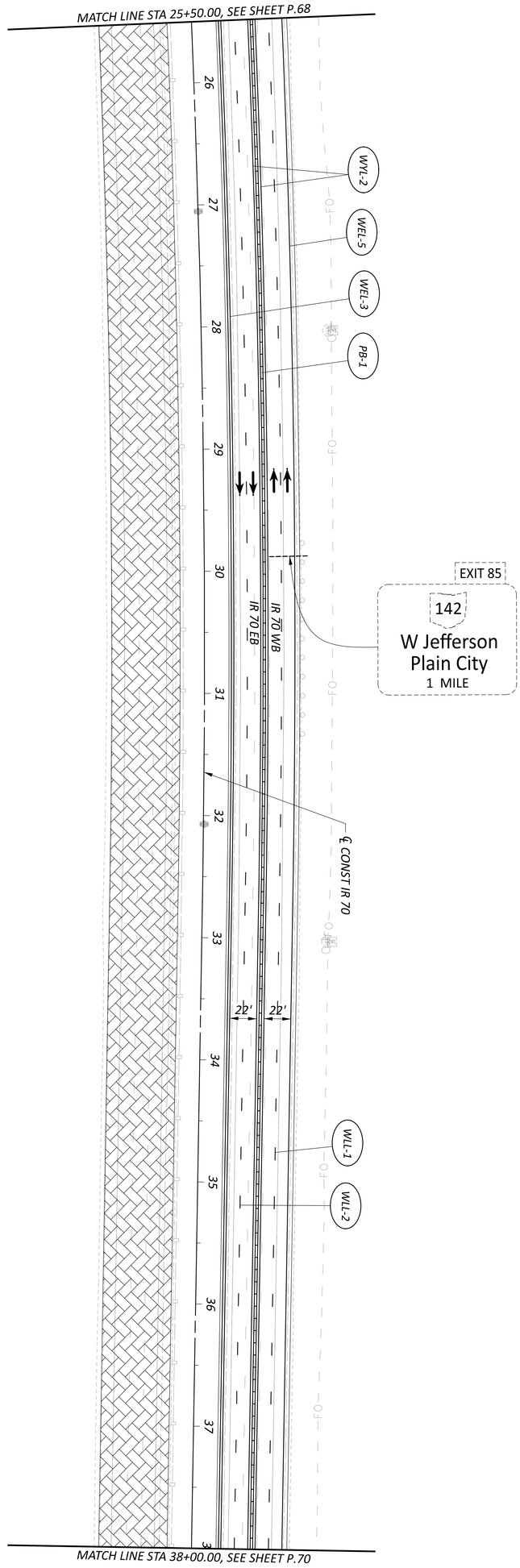


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

LEGEND

CONSTRUCTION UNDER THIS PHASE

N

SHEET	TOTAL
P. 69	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

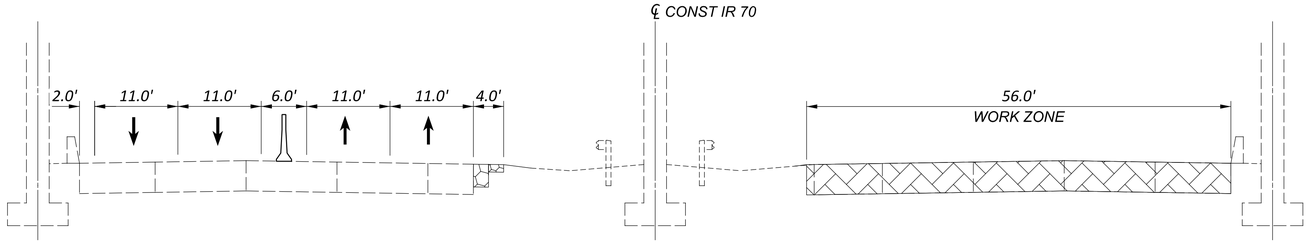
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 25+50.00 TO STA 38+00.00

HORIZONTAL SCALE IN FEET

0 50

25 100

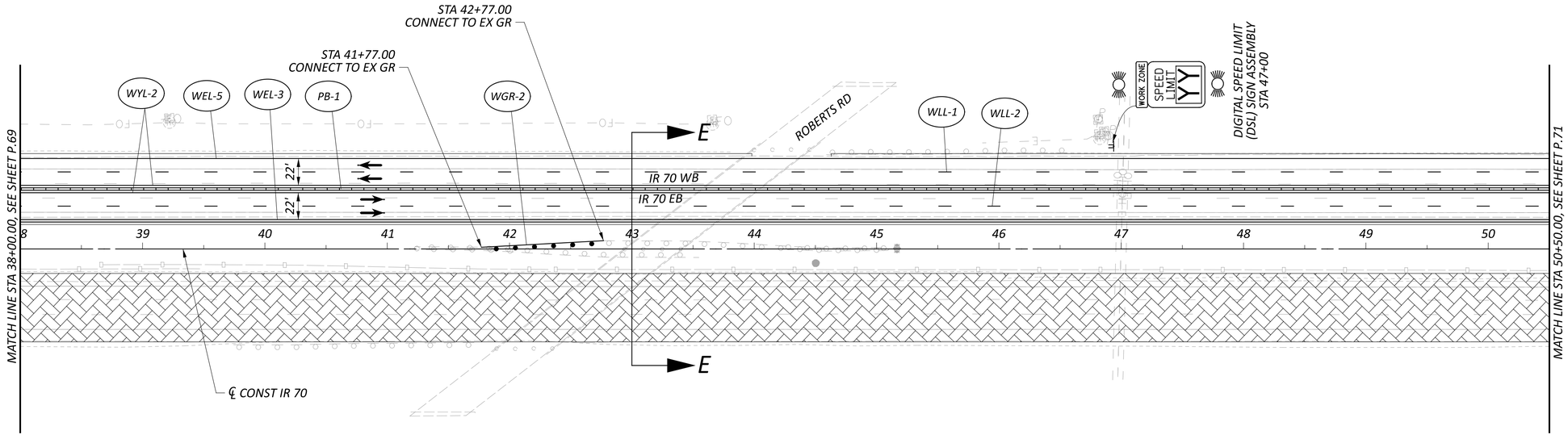


PHASE 1 STEP A SECTION E-E IR 70
UNDER ROBERTS RD

LEGEND

CONSTRUCTION UNDER THIS PHASE

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 38+00.00 TO STA 50+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.70 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A B [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:35 PM USER: AMerrill
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MODEL: MOT_I70 - MOT PHASE 1 STEP A 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:36 PM USER: AMerrill
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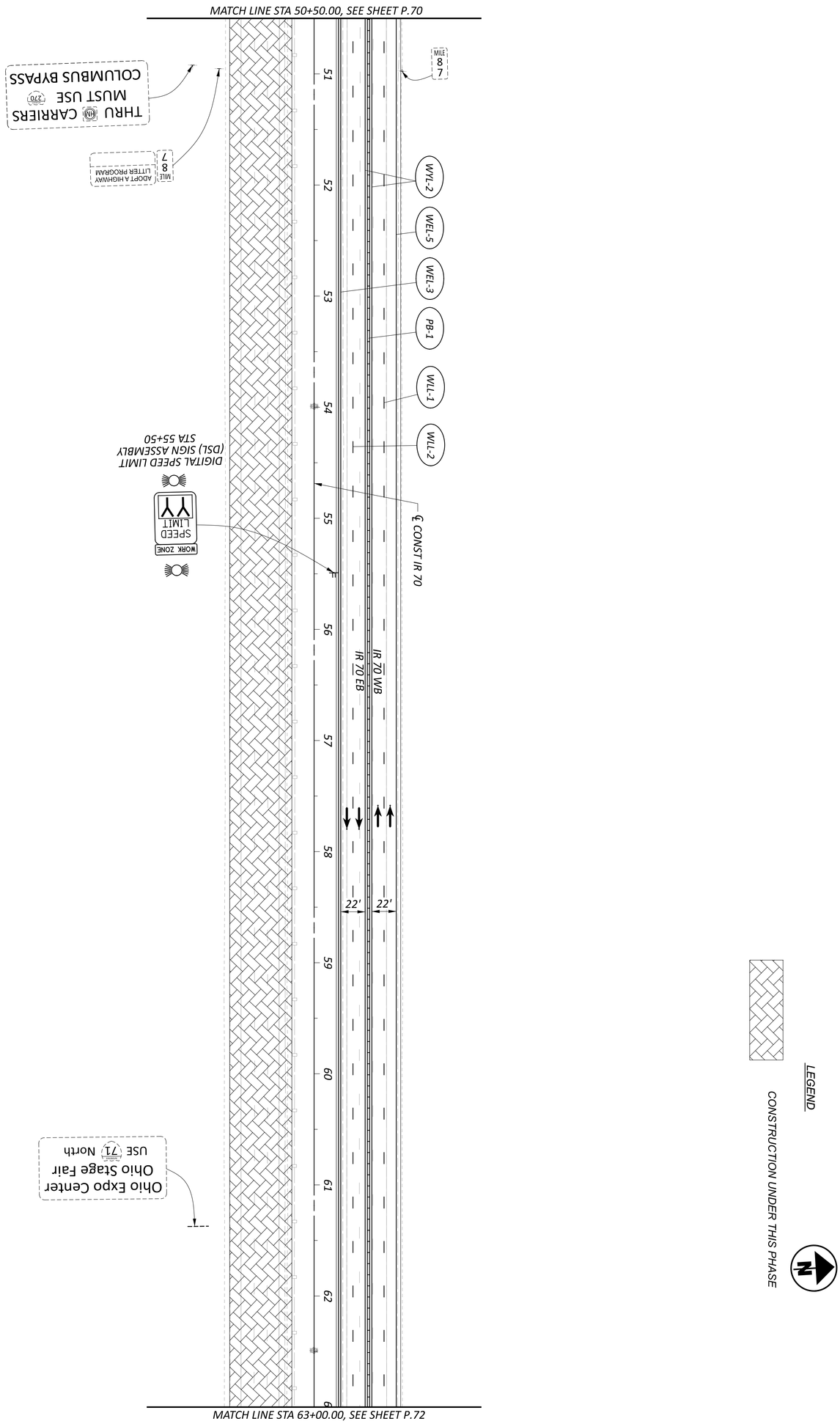


LEGEND

CONSTRUCTION UNDER THIS PHASE

N

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE IMT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 50+50.00 TO STA 63+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

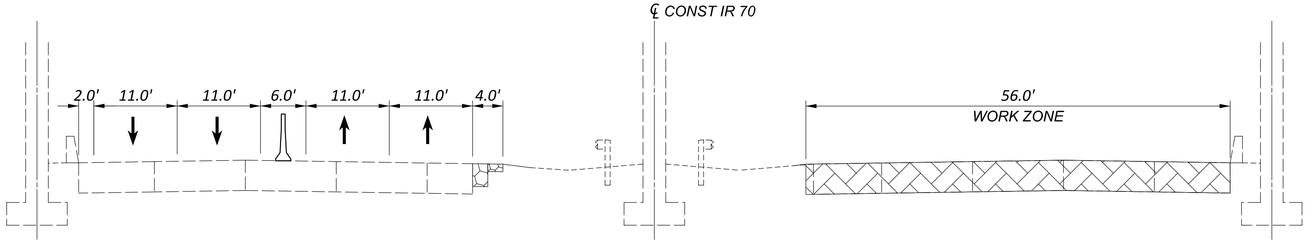
SHEET	TOTAL
P.71	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

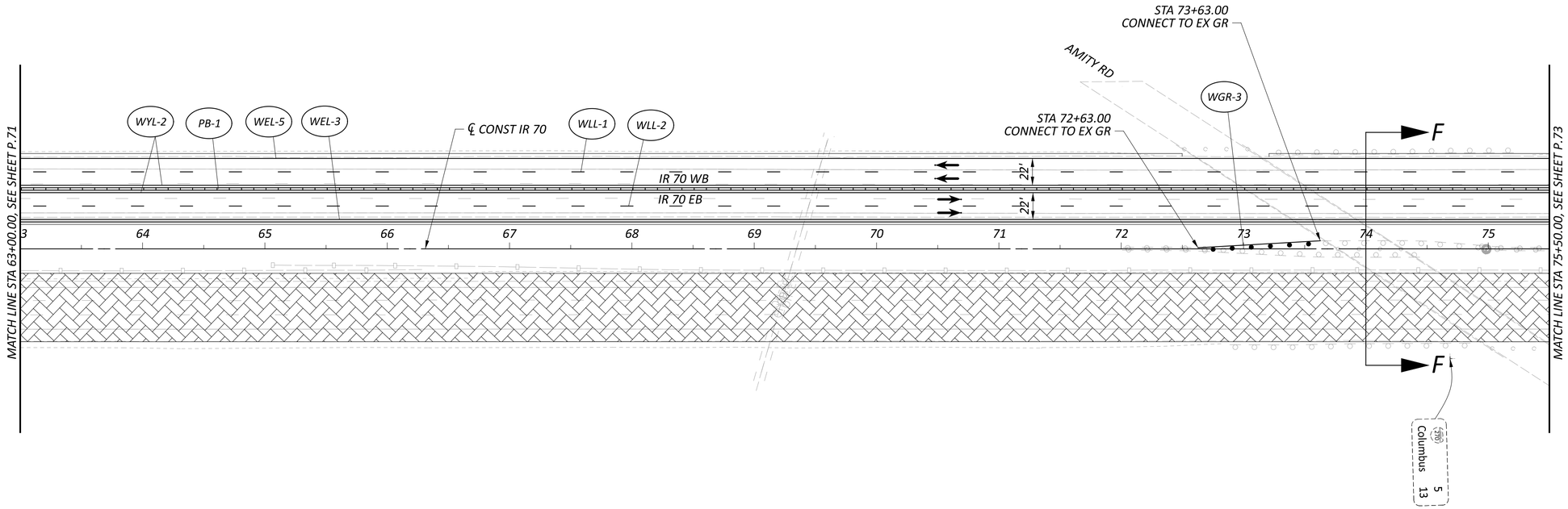


PHASE 1 STEP A SECTION F-F IR 70
UNDER AMITY RD

LEGEND

CONSTRUCTION UNDER THIS PHASE

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 63+00.00 TO STA 75+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER DMS

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.72 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:36 PM USER: AMerrill
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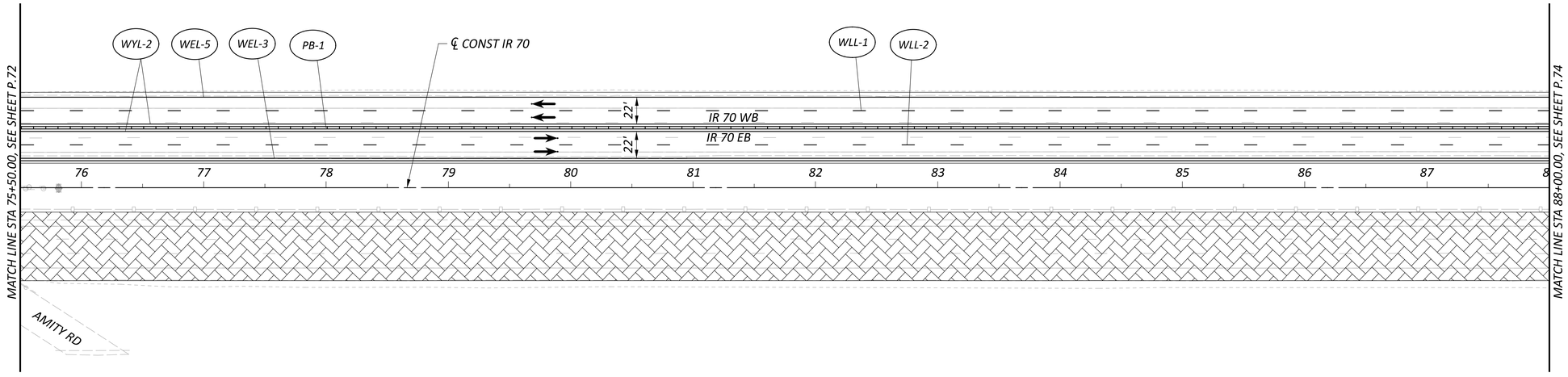
LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 75+50.00 TO STA 88+00.00

DESIGN AGENCY
AMEREIN STRUCTUREPOINT INC.

DESIGNER DMS

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.73 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:37 PM USER: AMerrill
O:\2023\00711\C. Design\116949_FRA-70-0.00\400-Engineering\MOT\Sheets\116949_MP110.dgn

MODEL: MOT_I70 - MOT PHASE 1 STEP A 12 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:37 PM USER: AMerrill
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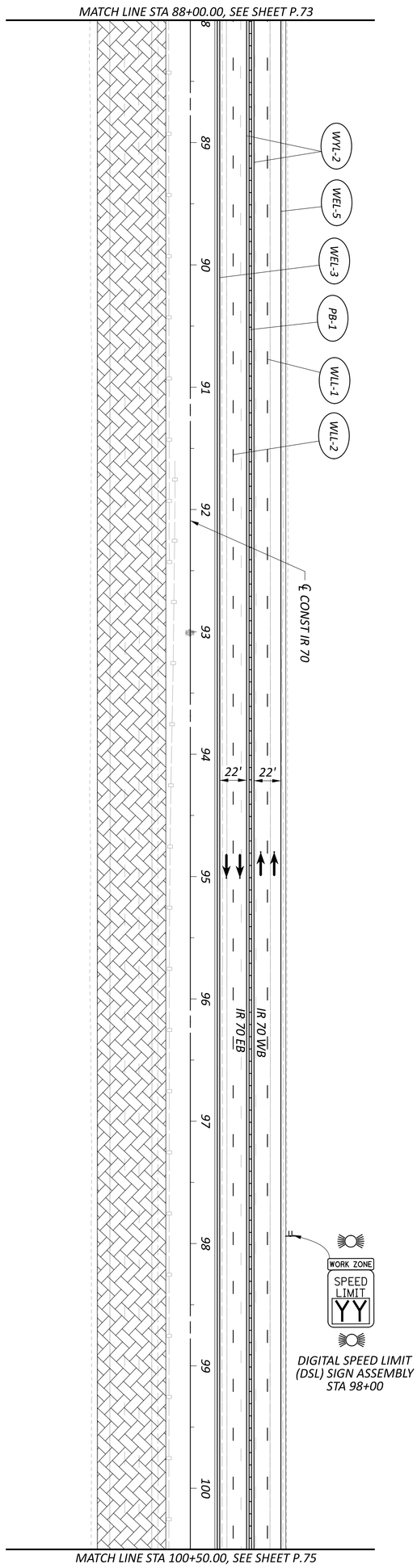


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

LEGEND

CONSTRUCTION UNDER THIS PHASE

N

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 88+00.00 TO STA 100+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

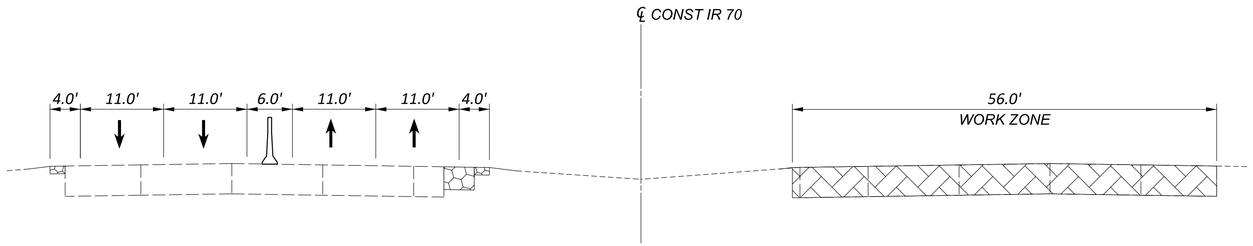
SHEET	TOTAL
P.74	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



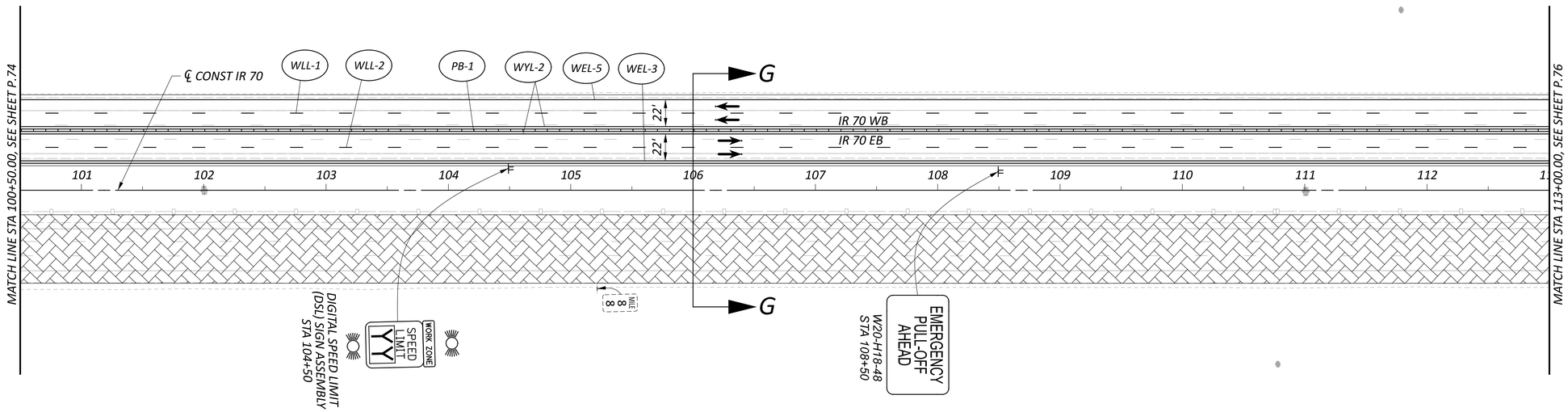
PHASE 1 STEP A SECTION G-G IR 70
STA 106+00

LEGEND

CONSTRUCTION UNDER THIS PHASE

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)

HORIZONTAL SCALE IN FEET
0 25 50 100



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 100+50.00 TO STA 113+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.75
TOTAL	577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:38 PM USER: AMerrill
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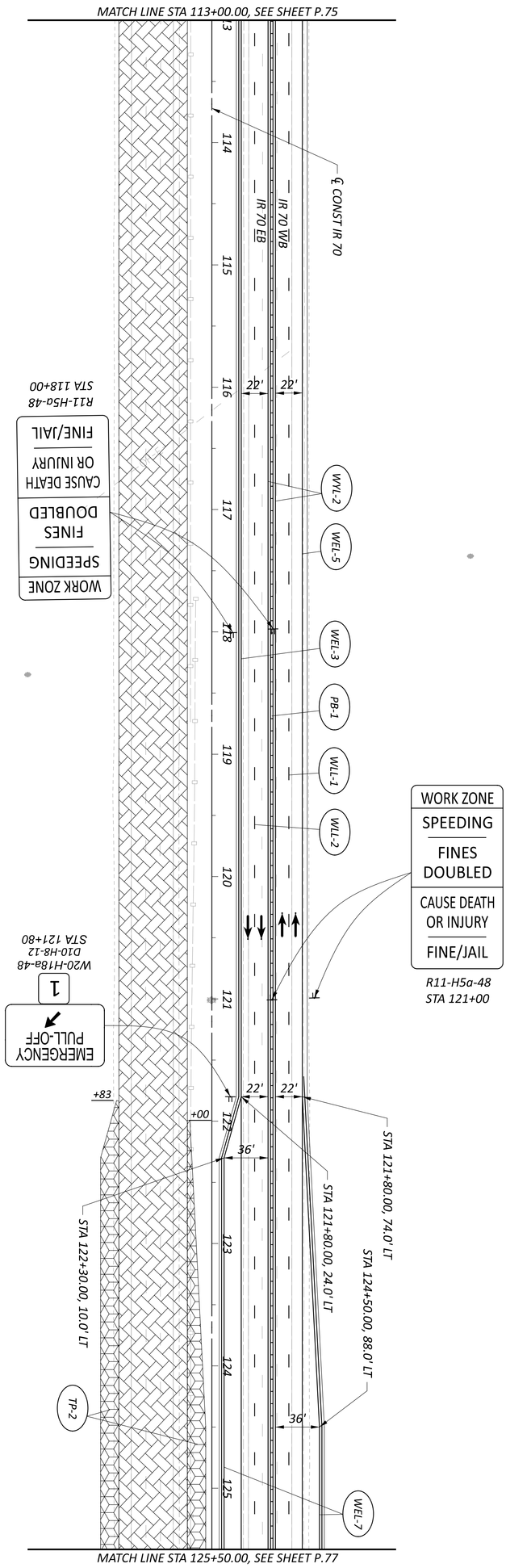


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

LEGEND

CONSTRUCTION UNDER THIS PHASE

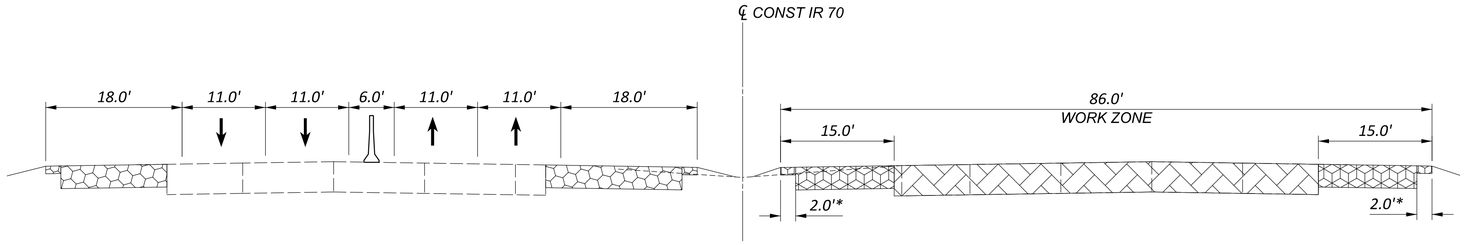
TEMPORARY CONSTRUCTION UNDER THIS PHASE

N

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.	DESIGNER: DMS	REVIEWER: AJL 08/23/24	PROJECT ID: 116949	SHEET: P.76	TOTAL: 577

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 113+00.00 TO STA 125+50.00

HORIZONTAL SCALE IN FEET
0 25 50 100



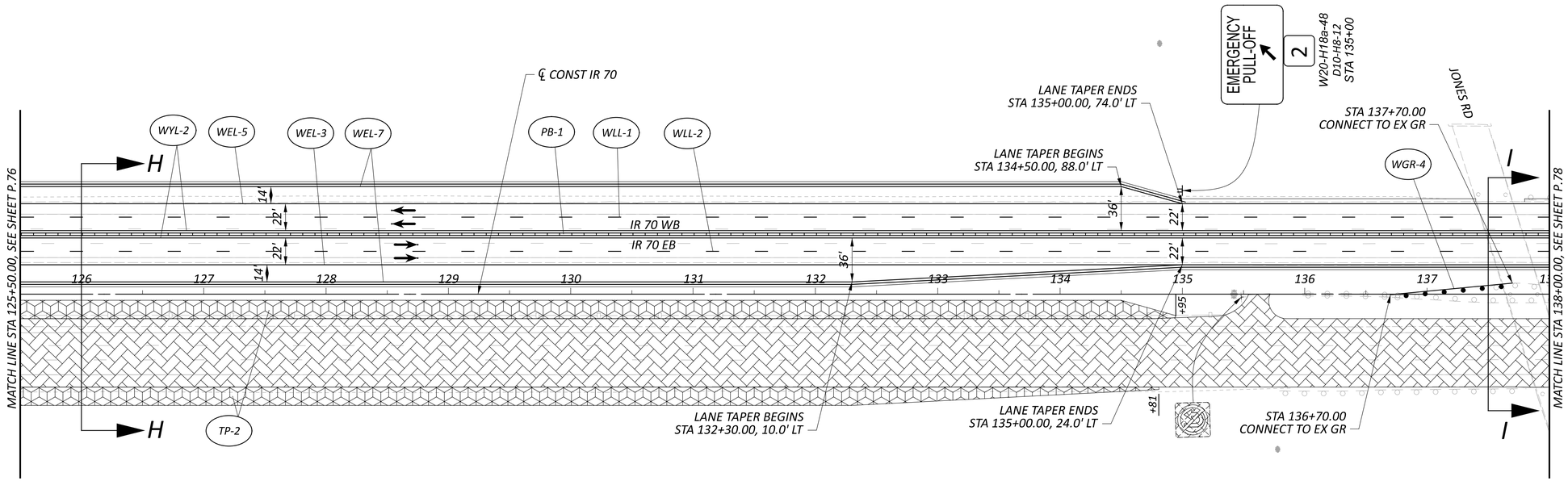
PHASE 1 STEP A SECTION H-H IR 70
STA 126+00

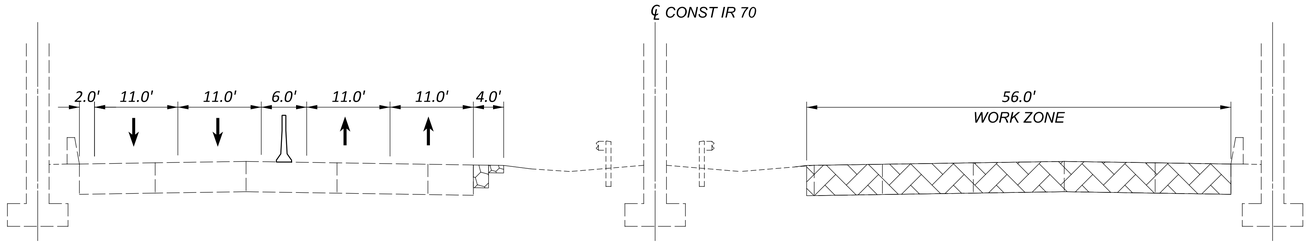
LEGEND

CONSTRUCTION UNDER THIS PHASE

TEMPORARY CONSTRUCTION UNDER THIS PHASE

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)





PHASE 1 STEP A SECTION I-I IR 70
UNDER JONES RD

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 125+50.00 TO STA 138+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.77 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:39 PM USER: AMerrill
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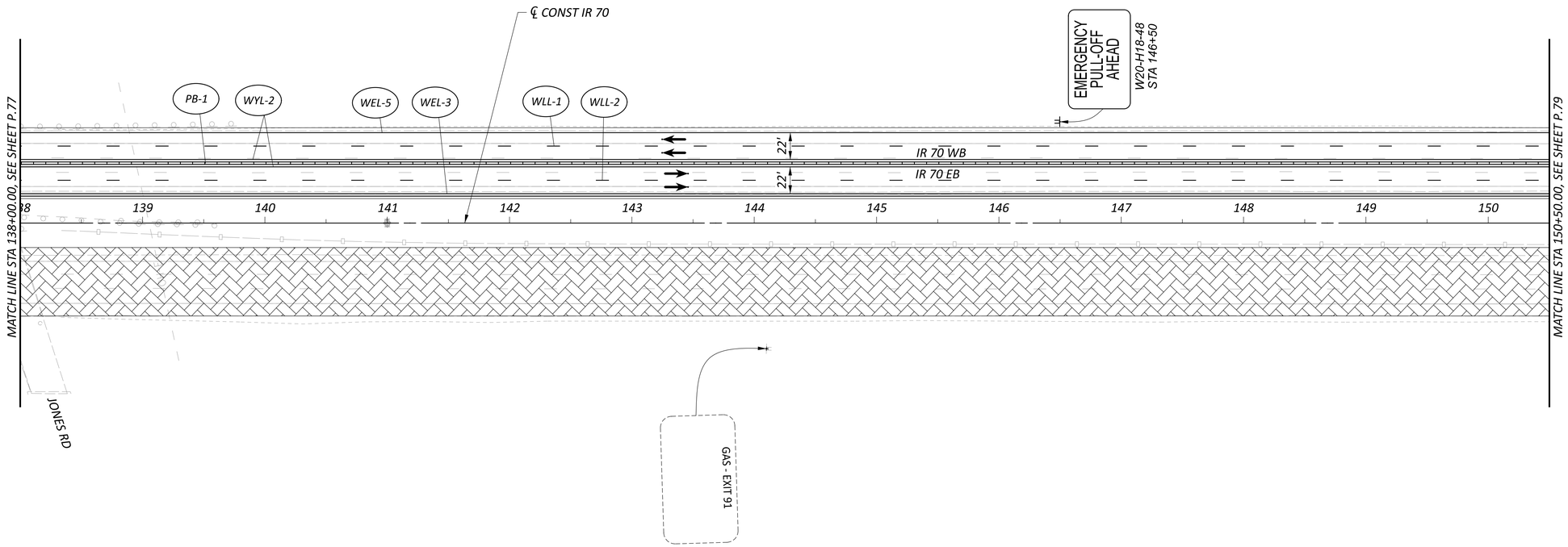
LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 138+00.00 TO STA 150+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.78 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:40 PM USER: AMerrill
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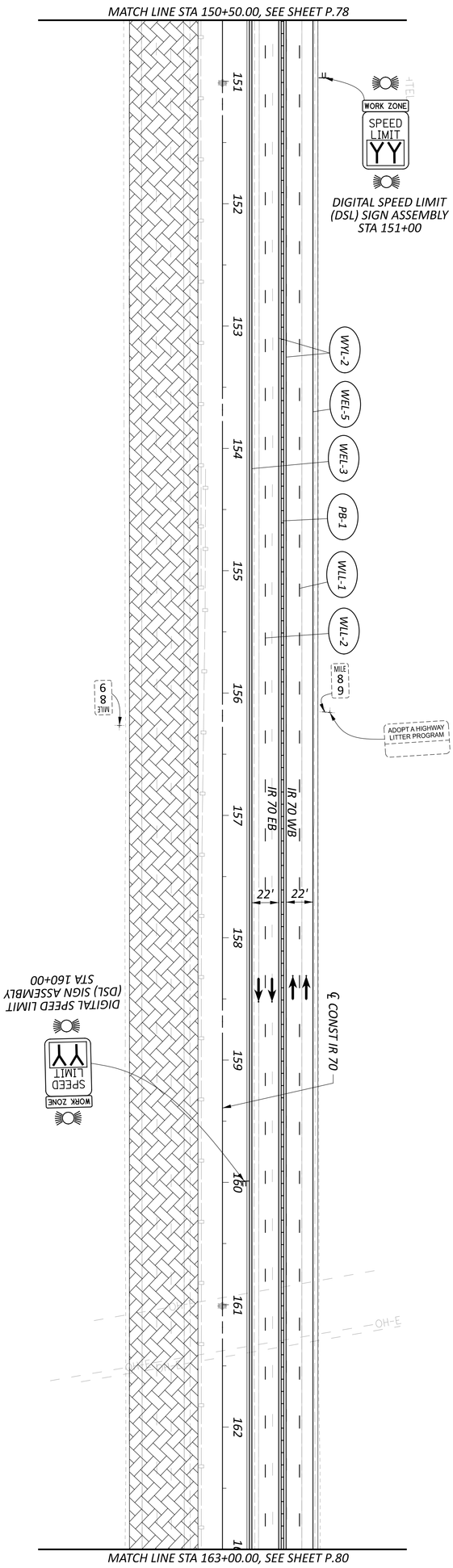


LEGEND

CONSTRUCTION UNDER THIS PHASE

N

NOTES:

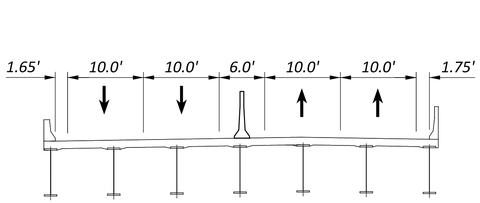
1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 150+50.00 TO STA 163+00.00

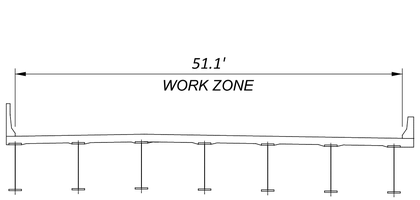
HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.79	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



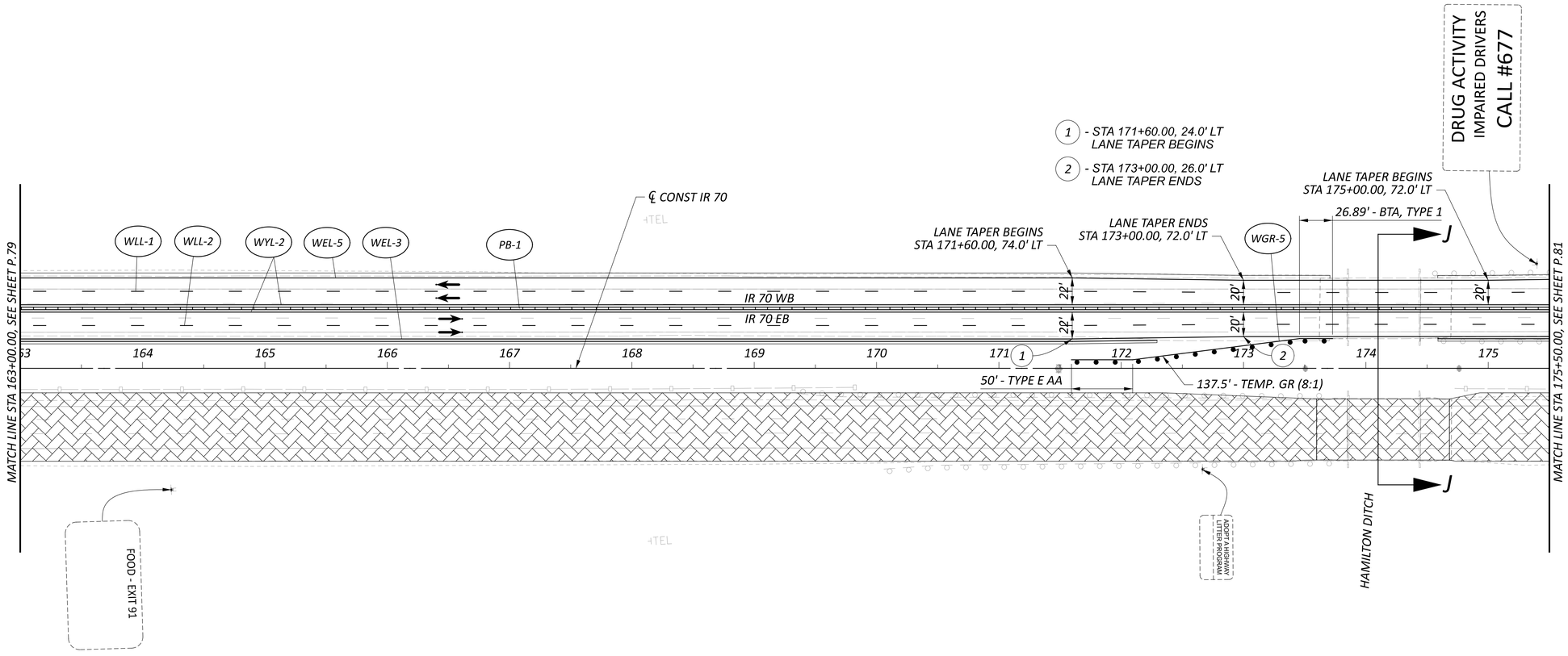
PHASE 1 STEP A SECTION J-J IR 70
OVER HAMILTON DITCH



LEGEND

CONSTRUCTION UNDER THIS PHASE

HORIZONTAL SCALE IN FEET
0 25 50 100



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 163+00.00 TO STA 175+50.00

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 18 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:41 PM USER: AMerrill
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DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

DESIGNER
DMS

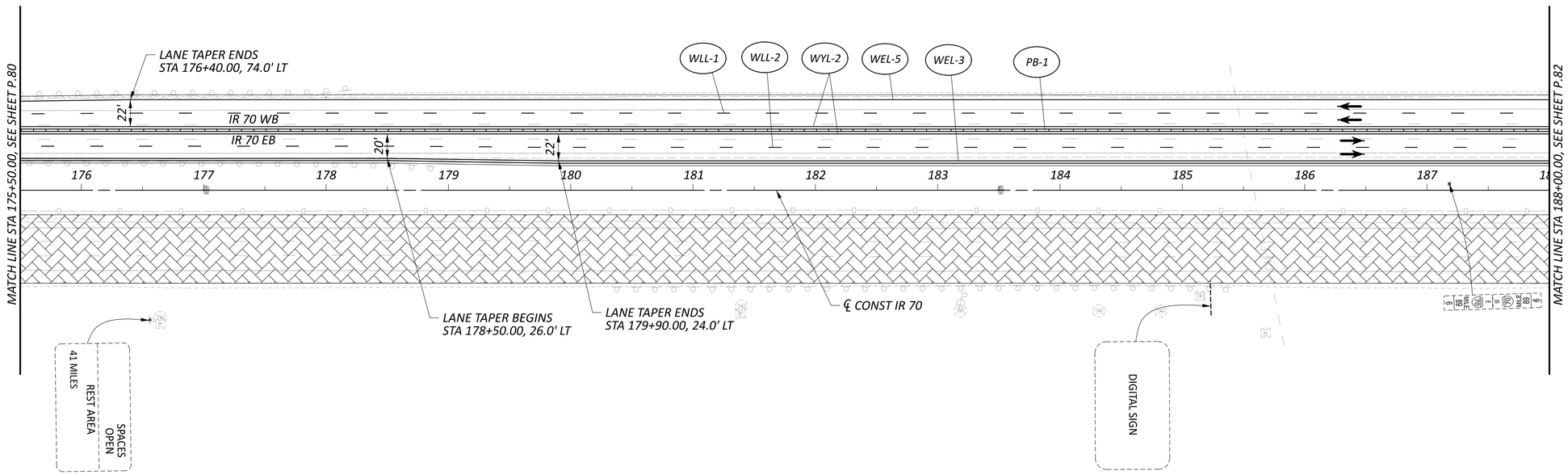
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.80 | TOTAL 577

LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 175+50.00 TO STA 188+00.00

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 19 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:42 PM USER: AMerrill
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DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.81 TOTAL 577

MODEL: MOT_I70 - MOT PHASE 1 STEP A 20 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:43 PM USER: AMerrill
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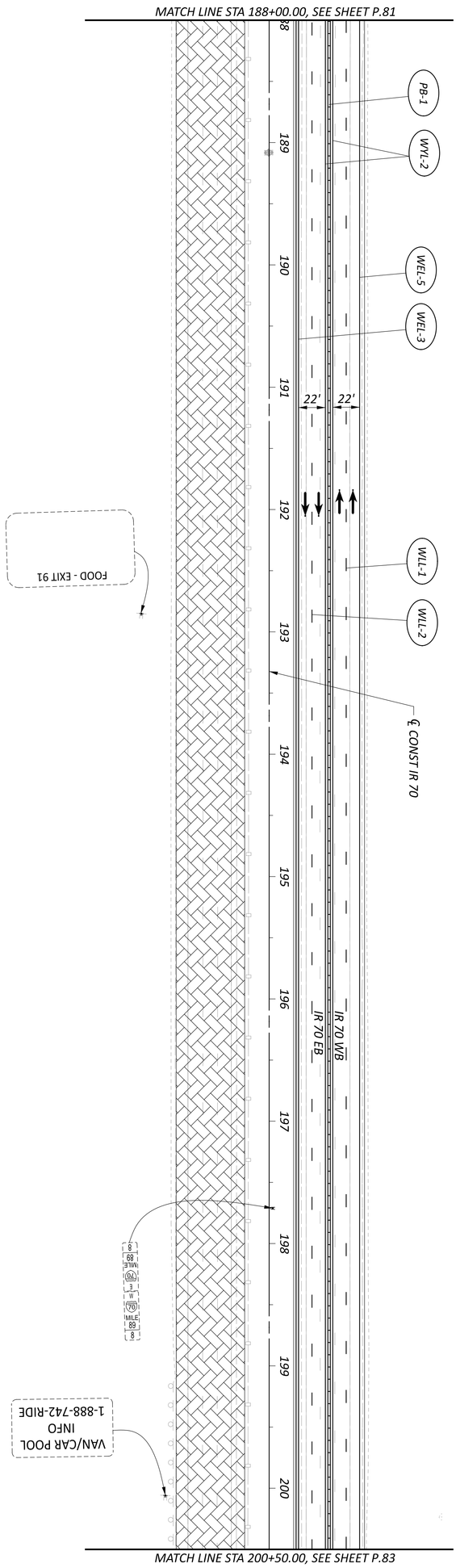


LEGEND

CONSTRUCTION UNDER THIS PHASE

N

NOTES:

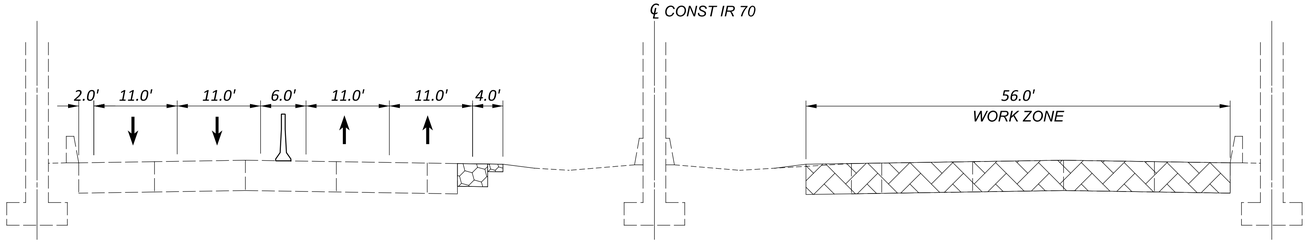
1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE IVT-95.40, TABLE II

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.82	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 188+00.00 TO STA 200+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100



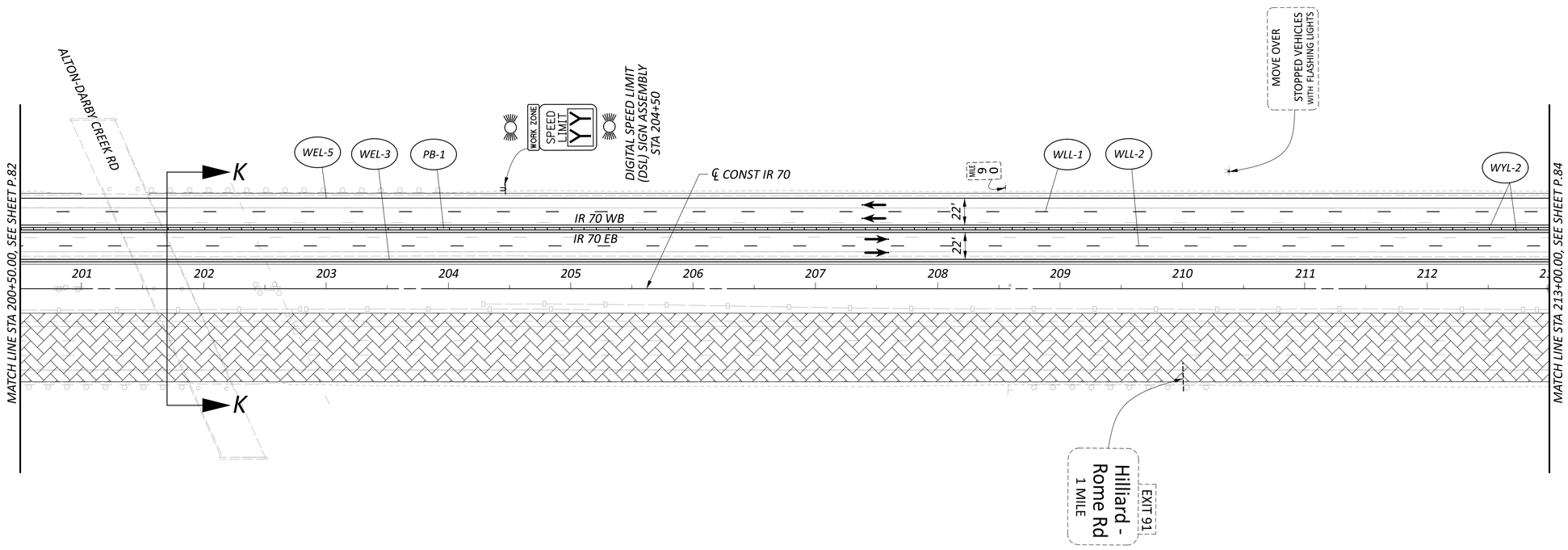
PHASE 1 STEP A SECTION K-K IR 70
UNDER ALTON-DARBY CREEK RD

LEGEND

CONSTRUCTION UNDER THIS PHASE

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)

HORIZONTAL
SCALE IN FEET
0 25 50 100



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 200+50.00 TO STA 213+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.83 | TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 21 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:43 PM USER: AMerrill
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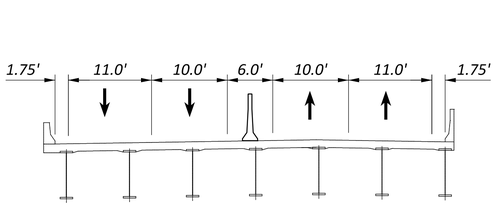
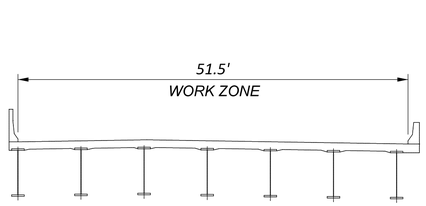


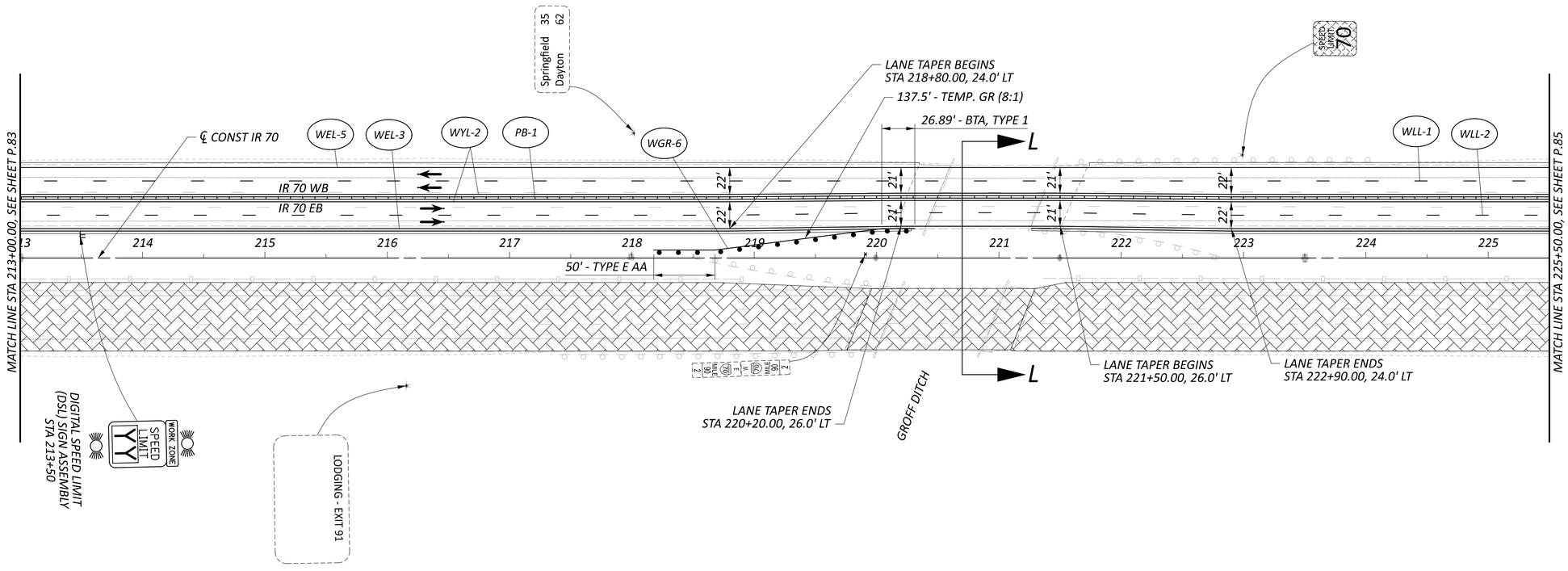
PHASE 1 STEP A SECTION L-L IR 70
OVER GROFF DITCH



LEGEND

CONSTRUCTION UNDER THIS PHASE

HORIZONTAL SCALE IN FEET
0 25 50 100



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 213+00.00 TO STA 225+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.84 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 22 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:44 PM USER: AMerrill
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MODEL: MOT_I70 - MOT PHASE 1 STEP A 23 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:45 PM USER: AMerrill
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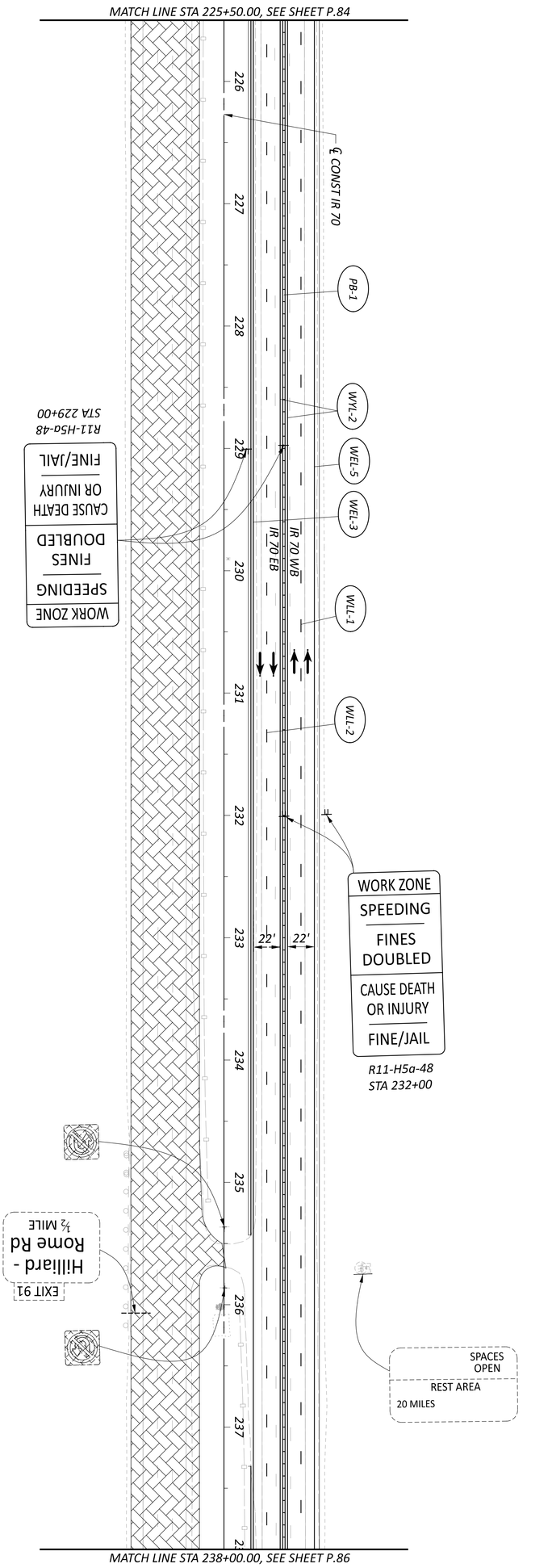


NOTES:

1. *FOR MOT LEGEND, SEE SHEET P.30.*
2. *ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.*
3. *FOR DRUM SPACING, SEE MT-95.40, TABLE II*

LEGEND

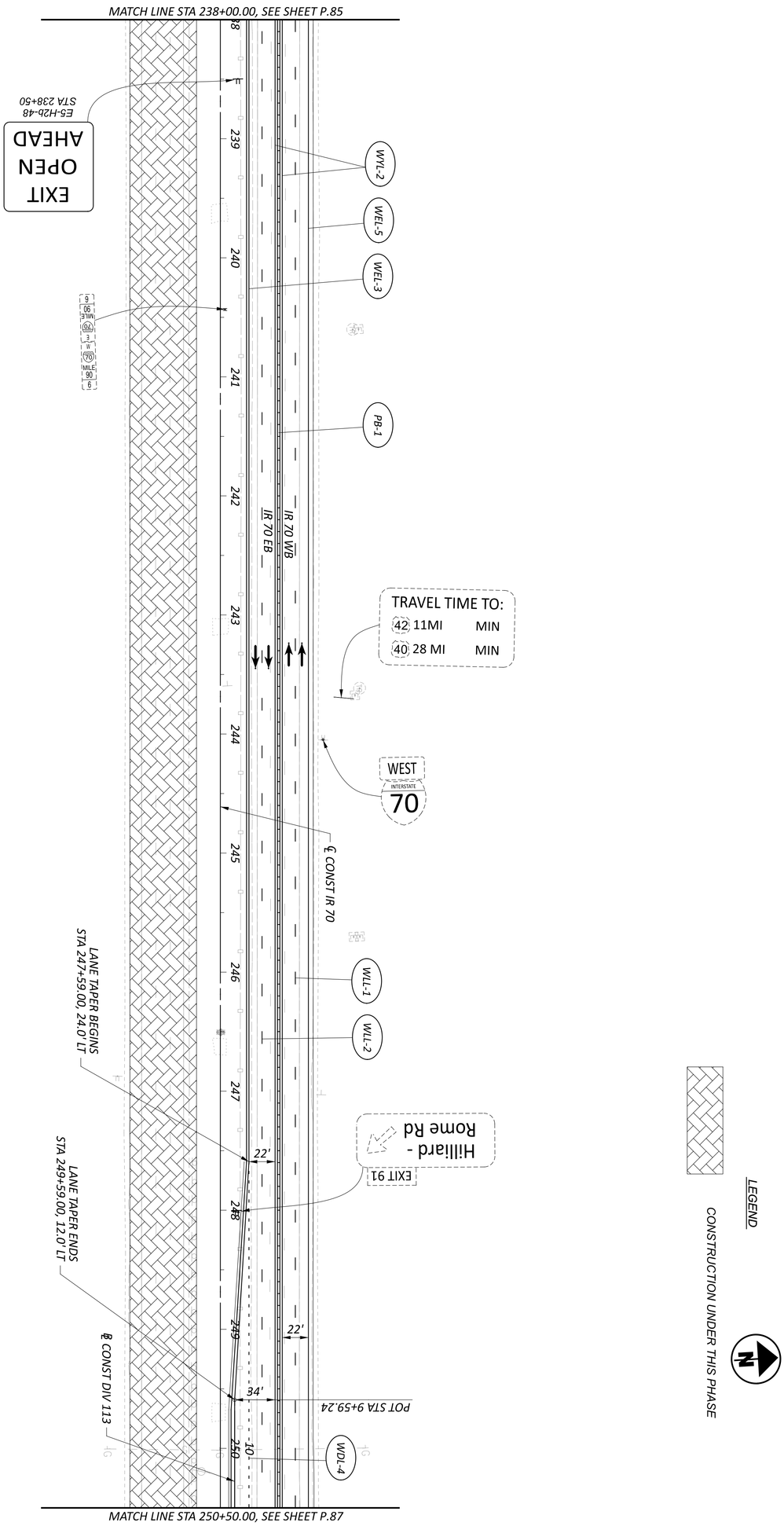
CONSTRUCTION UNDER THIS PHASE

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 225+50.00 TO STA 238+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.85	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



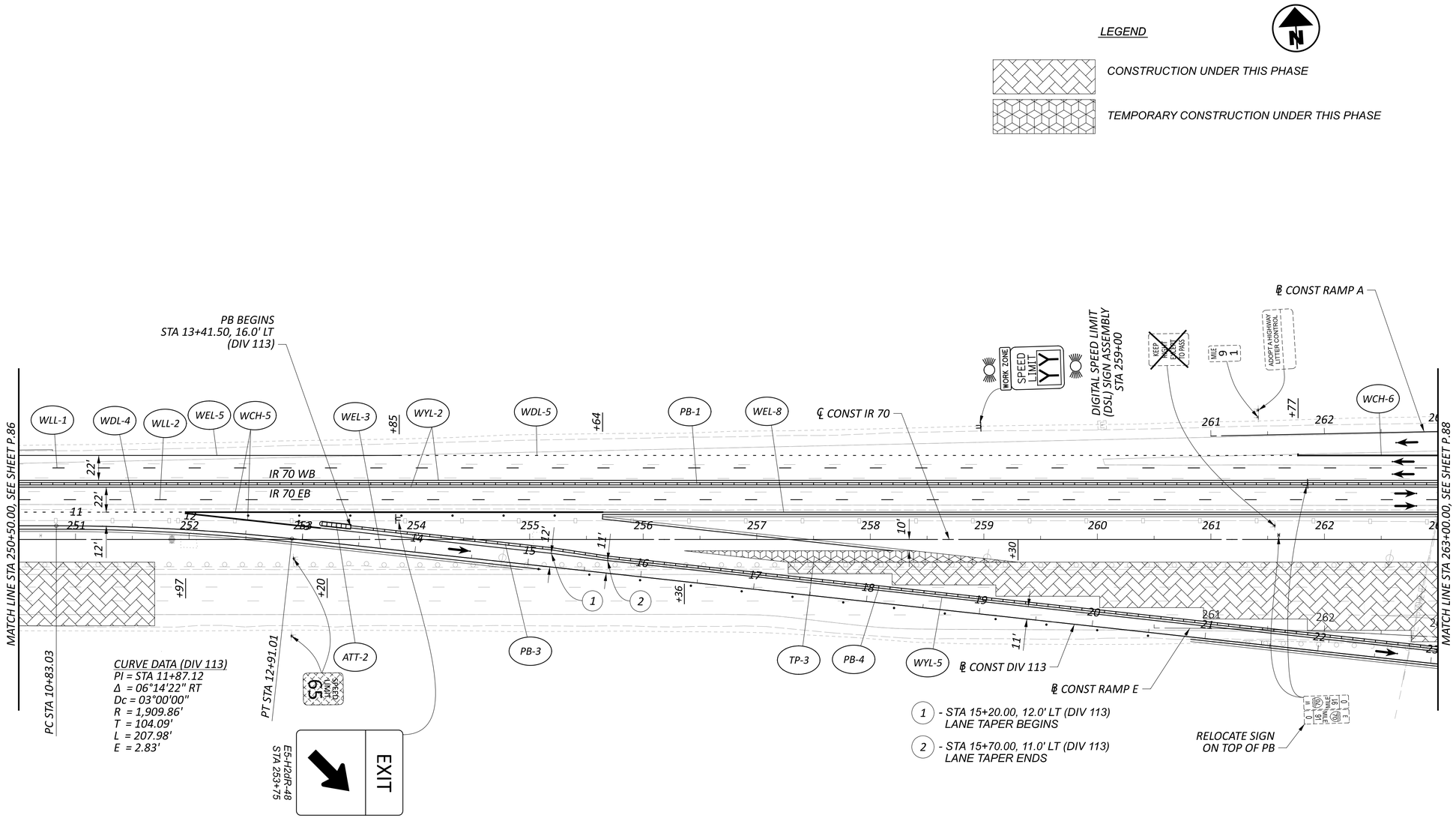
NOTES:

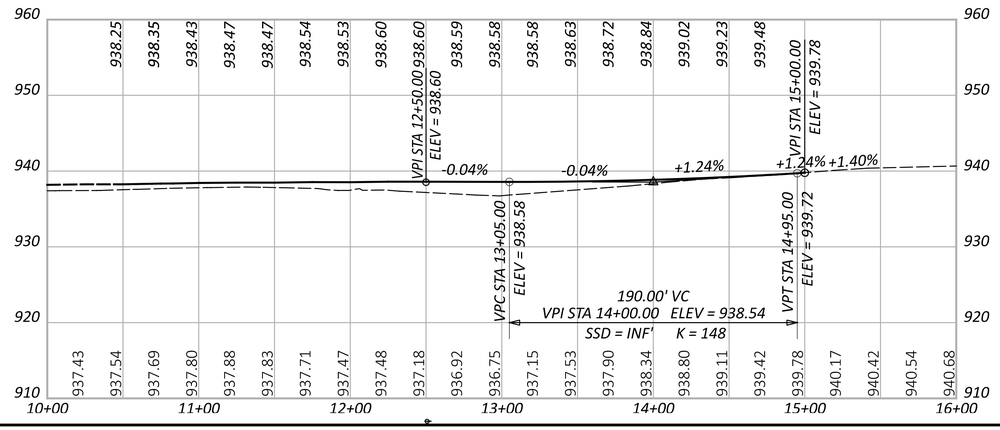
1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 113 CROSSOVER DETAIL, SEE SHEET P.142

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: DMS
REVIEWER: AJL 08/23/24
PROJECT ID: 116949
SHEET P.86 TOTAL 577

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, D
STA 238+00.00 TO STA 250+50.00

HORIZONTAL SCALE IN FEET
0 25 50 100





NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 113 CROSSOVER DETAIL, SEE SHEET P.142

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, D
STA 250+50.00 TO STA 263+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.87 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 25 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:46 PM USER: AMerrill
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FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 26 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:47 PM USER: AMerrill
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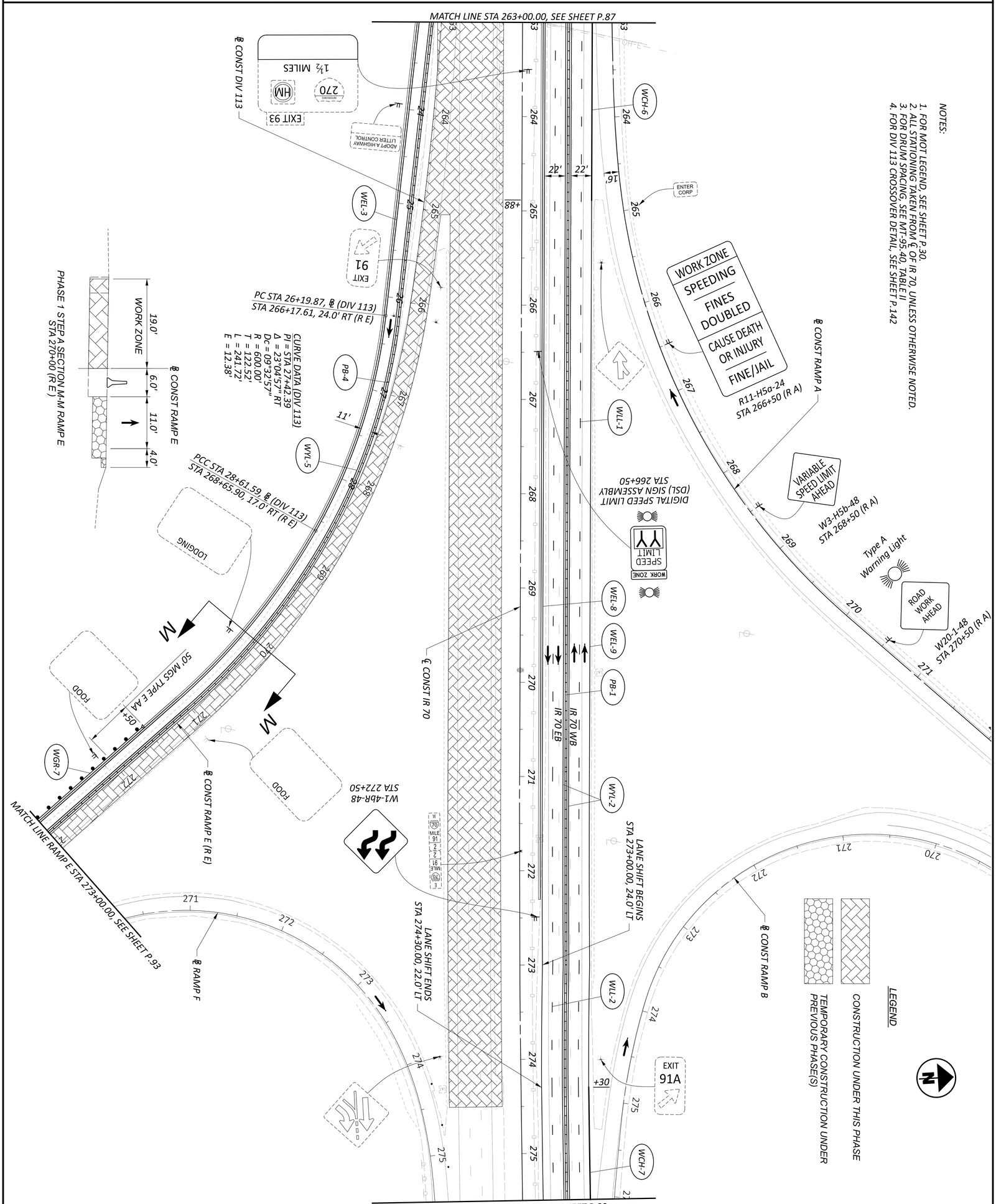


SHEET P.88	TOTAL 577	PROJECT ID 116949	REVIEWER AJL 08/23/24	DESIGNER DMS

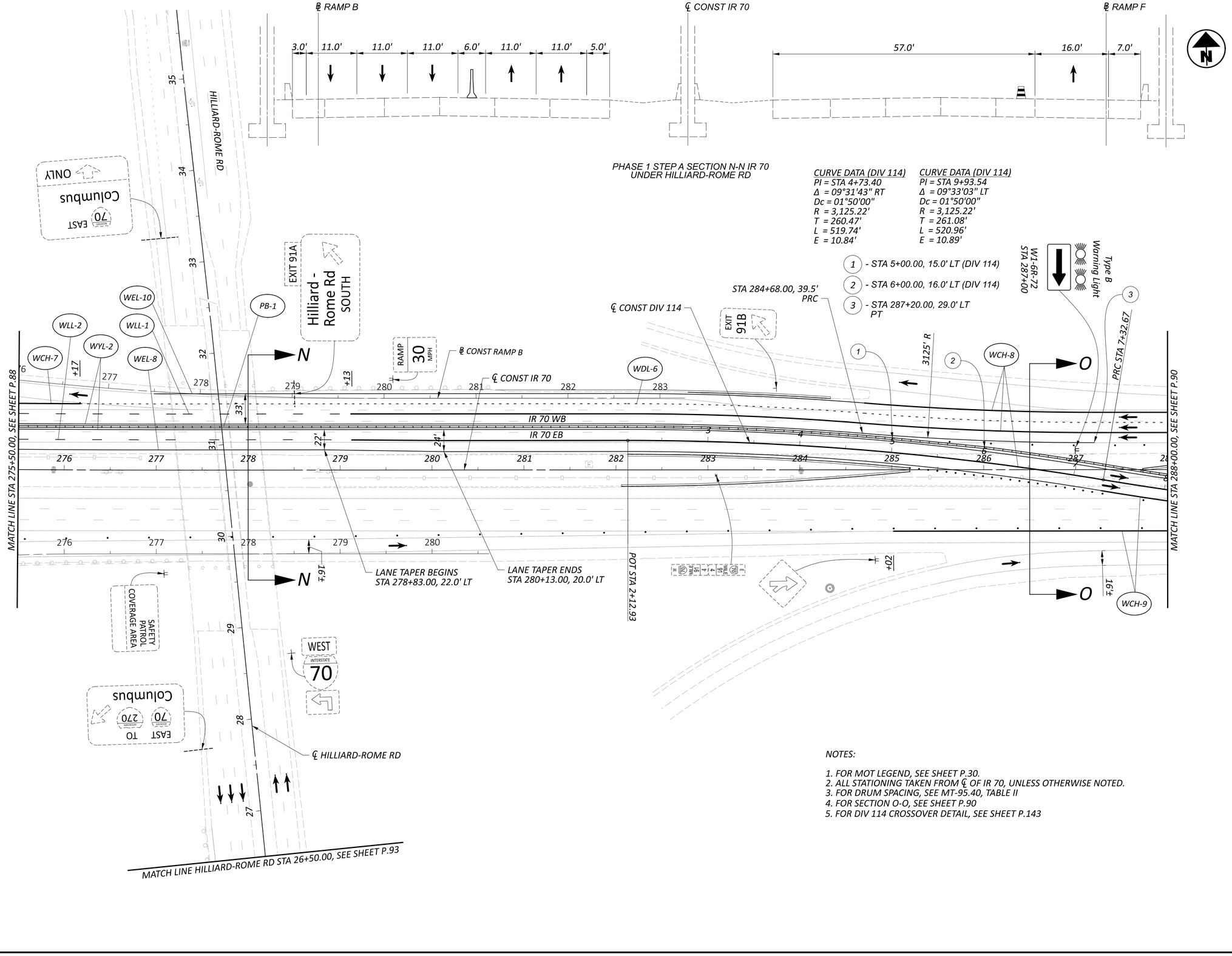
AMERICAN STRUCTUREPOINT INC. DESIGN AGENCY

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, D
STA 263+00.00 TO STA 275+50.00

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 275+50.00 TO STA 288+00.00

HORIZONTAL SCALE IN FEET
0 25 50 100



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR SECTION O-O, SEE SHEET P.90
5. FOR DIV 114 CROSSOVER DETAIL, SEE SHEET P.143

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.89
TOTAL	577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP A 27 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:48 PM USER: AMerrill
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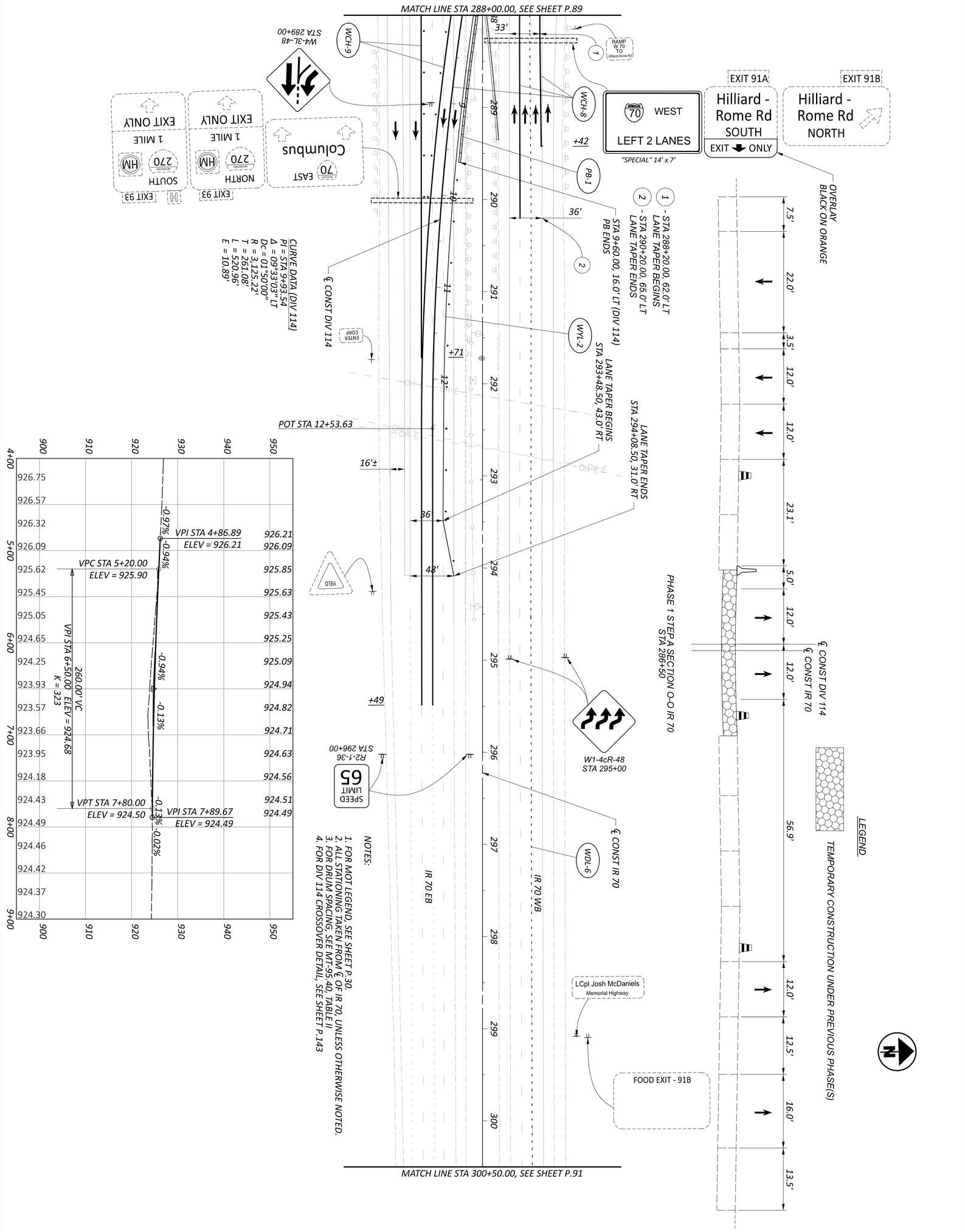

NOTES:
1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 114 CROSSOVER DETAIL, SEE SHEET P.143

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 288+00.00 TO STA 300+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.90	577

PROJECT ID: 116949
REVIEWER: AJL 08/23/24
DESIGNER: DMS
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MOT_I70 - MOT PHASE 1 STEP A 29 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:50 PM USER: AMerrill
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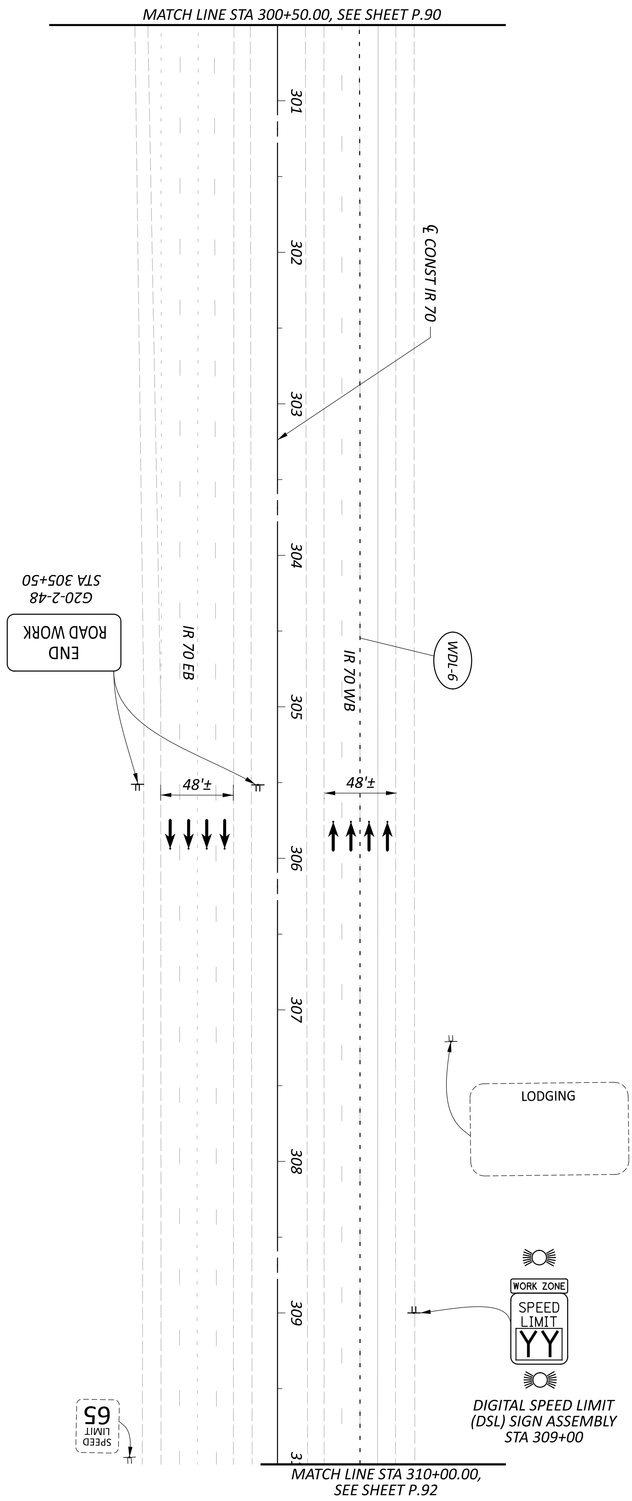

NOTES:

1. *FOR MOT LEGEND, SEE SHEET P.30.*
2. *ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.*
3. *FOR DRUM SPACING, SEE MT-95.40, TABLE II*

SHEET	TOTAL
P.91	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D
STA 300+50.00 TO STA 310+00.00

HORIZONTAL SCALE IN FEET

0 50
25 100

MODEL: ADVANCED SIGNS 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:51 PM USER: AMerrill
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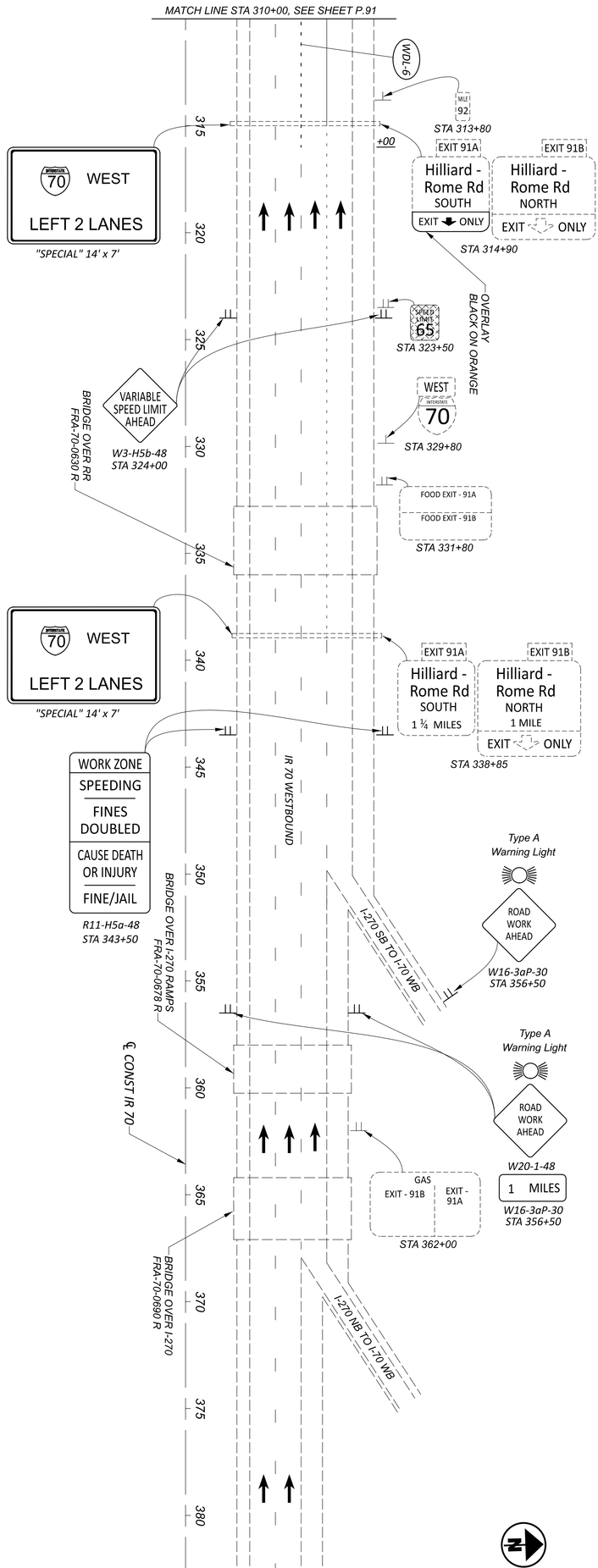
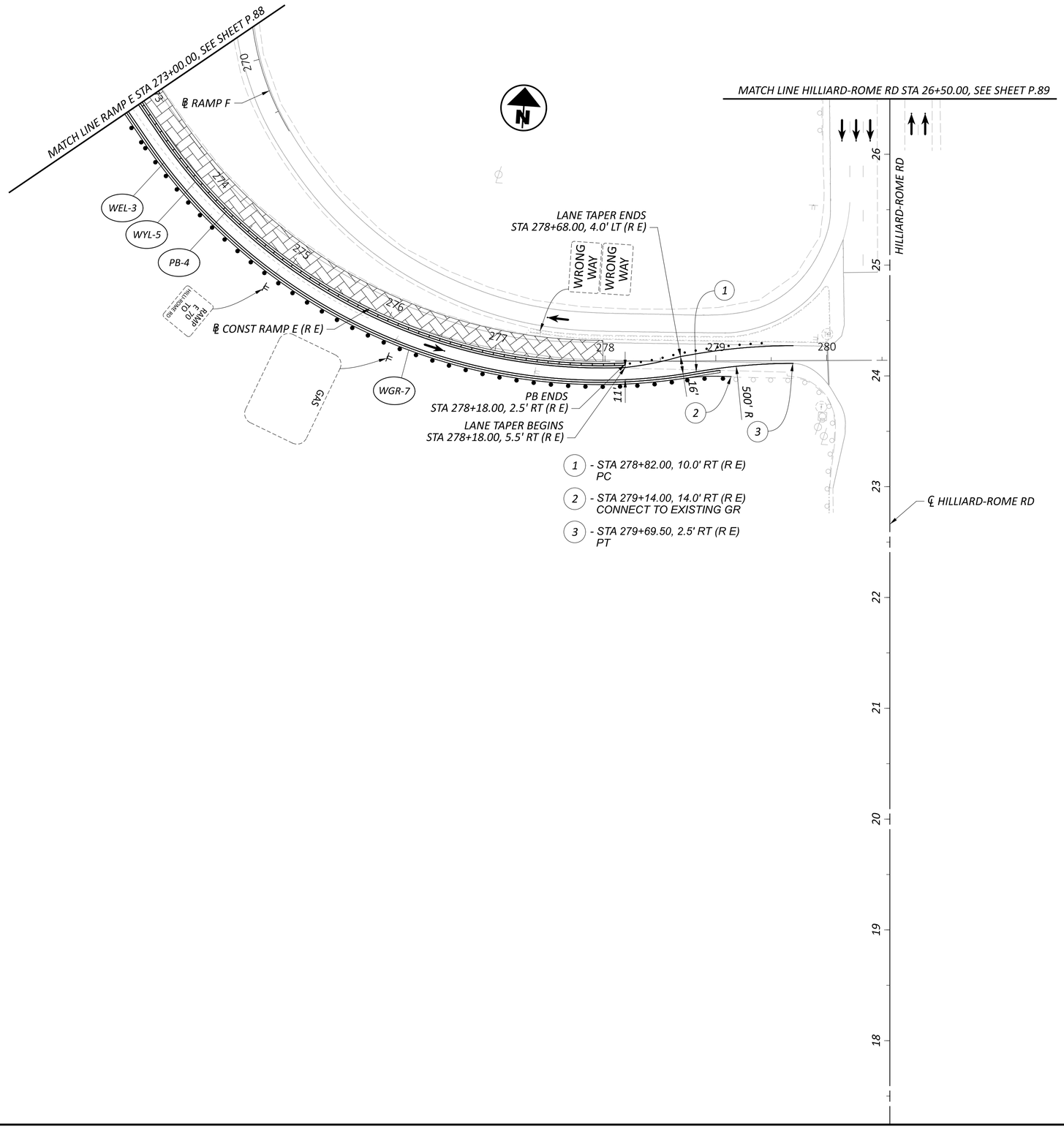


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

SHEET P.92 / TOTAL 577	PROJECT ID 116949	REVIEWER AJL 08/23/24	DESIGNER DMS	DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.	MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, C, D, PHASE 2 STEP A, B STA 310+00.00 TO STA 380+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP A, B, D
RAMP E STA 273+00.00 TO STA 280+57.11

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.93 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - Hilliard Rome Rd 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:51 PM USER: AMerrill
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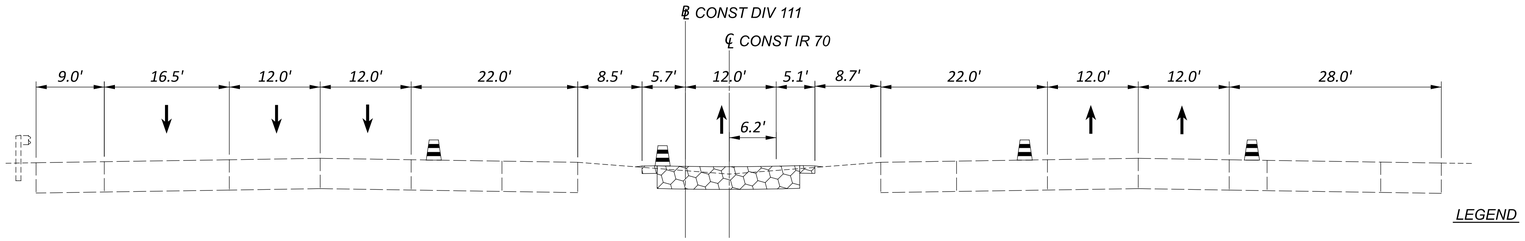
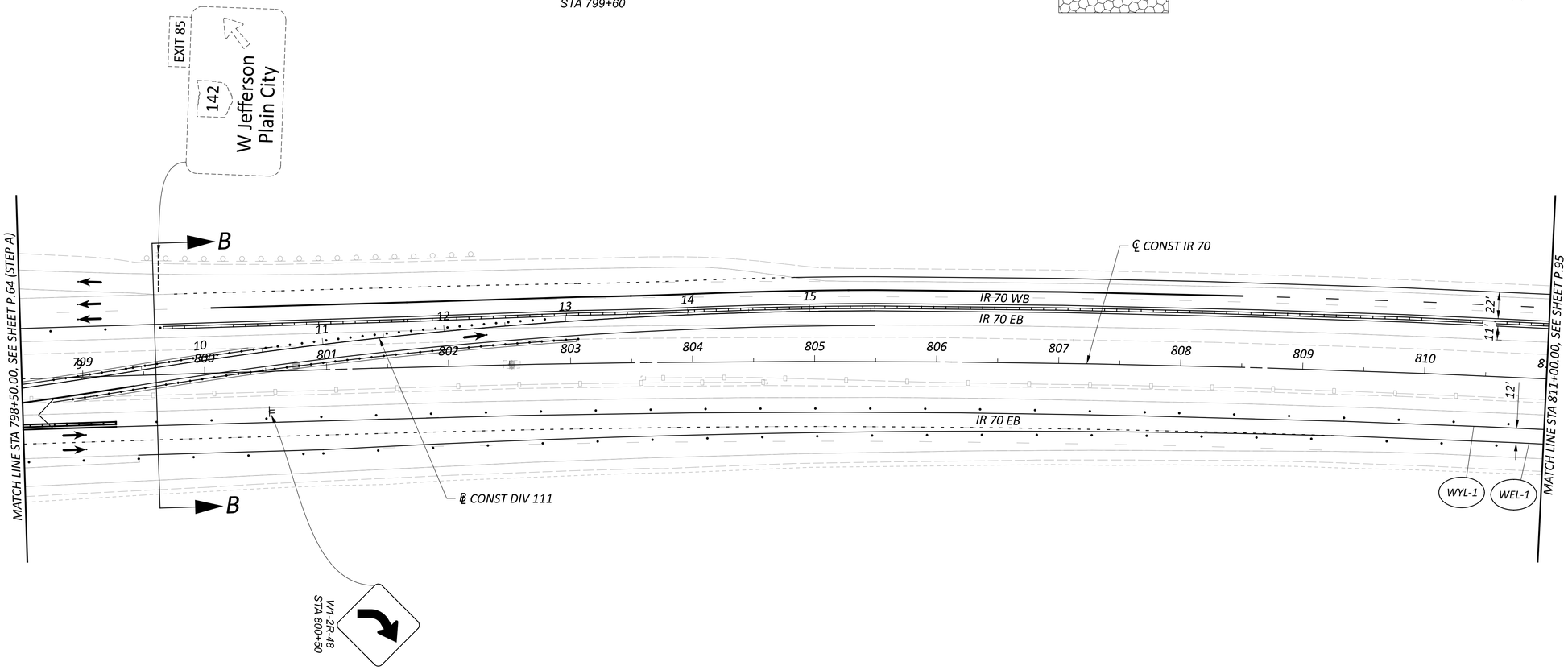


PHASE 1 STEP B SECTION B-B IR 70
STA 799+60

LEGEND

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP B
STA 798+50.00 TO STA 811+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.94 | TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP B 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:55 PM USER: AMerrill
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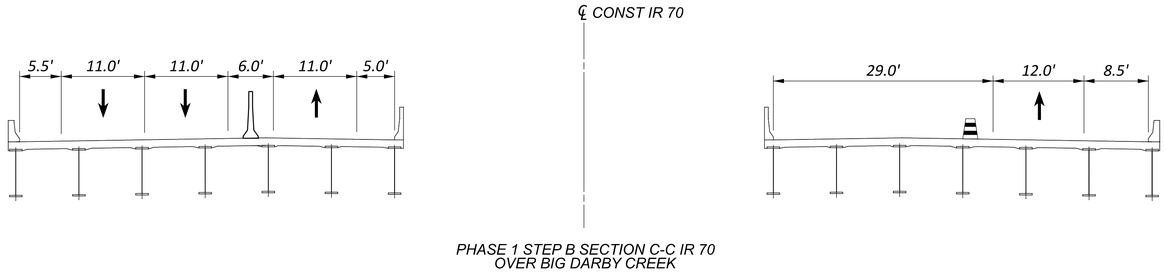
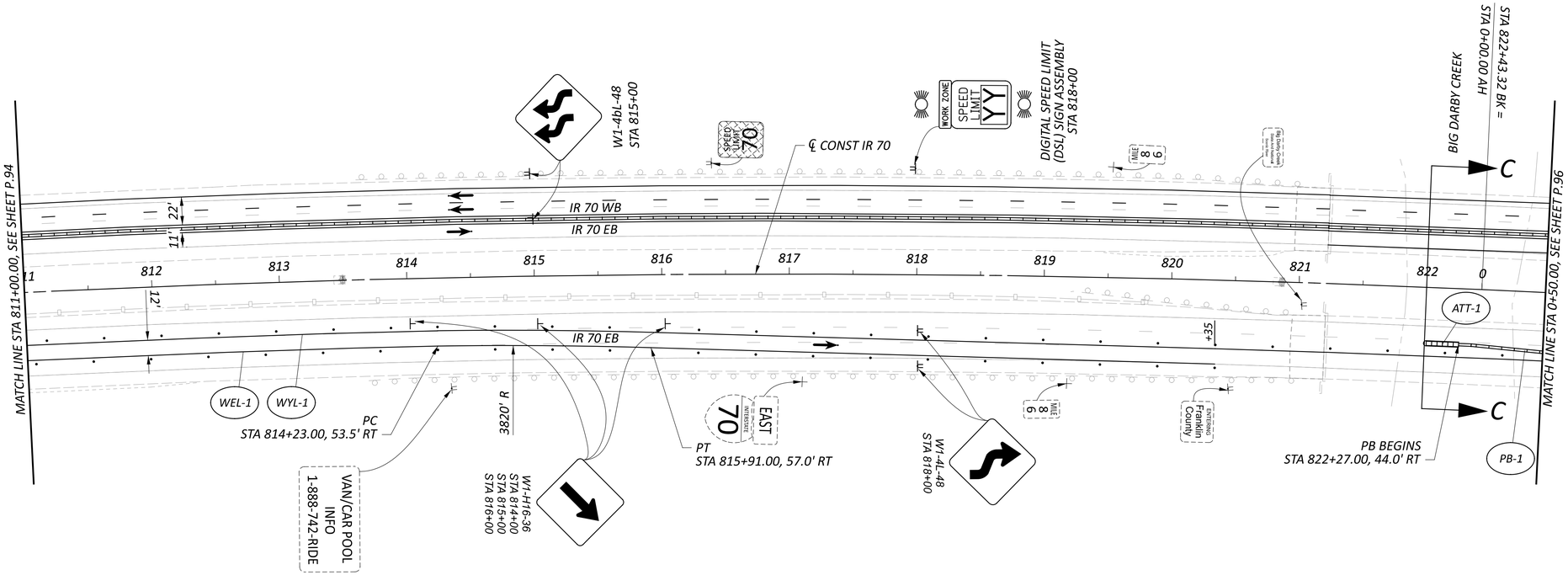


PHASE 1 STEP B SECTION C-C IR 70
OVER BIG DARBY CREEK



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP B
STA 811+00.00 TO STA 0+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.95 | TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP B 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:56 PM USER: AMerrill
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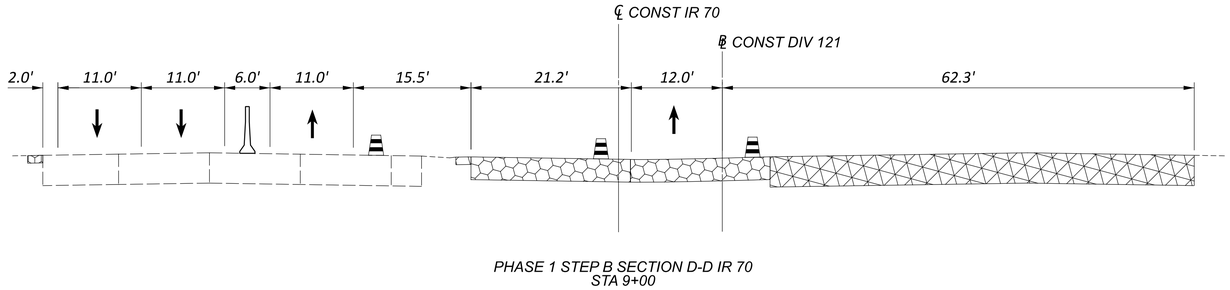


PHASE 1 STEP B SECTION D-D IR 70
STA 9+00

LEGEND

CONSTRUCTION UNDER THIS PHASE

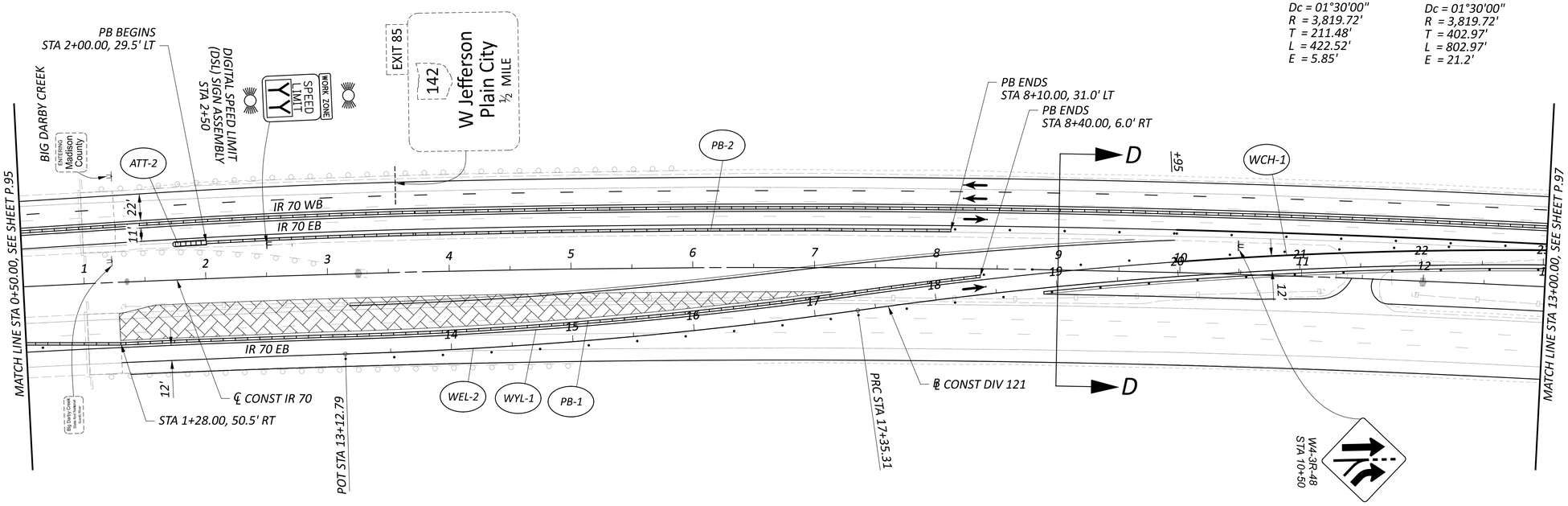
TEMPORARY CONSTRUCTION UNDER THIS PHASE

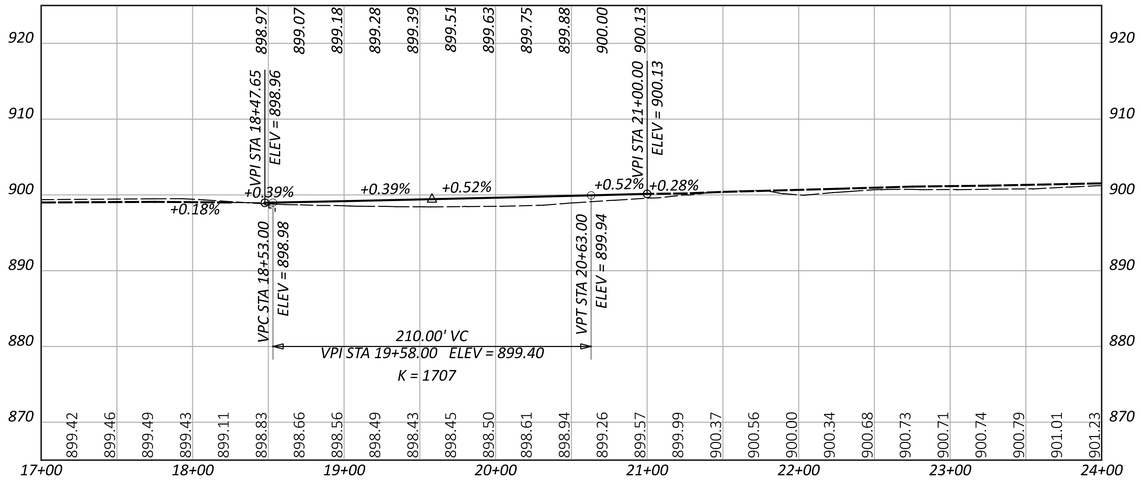
TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)

HORIZONTAL SCALE IN FEET
0 25 50 100

CURVE DATA (DIV 121)
PI = STA 15+24.27
Δ = 06°20'16" LT
Dc = 01°30'00"
R = 3,819.72'
T = 211.48'
L = 422.52'
E = 5.85'

CURVE DATA (DIV 121)
PI = STA 21+38.28
Δ = 12°02'40" RT
Dc = 01°30'00"
R = 3,819.72'
T = 402.97'
L = 802.97'
E = 21.2'





NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 121 CROSSOVER DETAIL, SEE SHEET P.144

MAINTENANCE OF TRAFFIC PHASE 1 STEP B
STA 0+50.00 TO STA 13+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.96 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP B 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:56 PM USER: AMerrill
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MODEL: MOT_I70 - MOT PHASE 1 STEP B 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:58 PM USER: AMerrill
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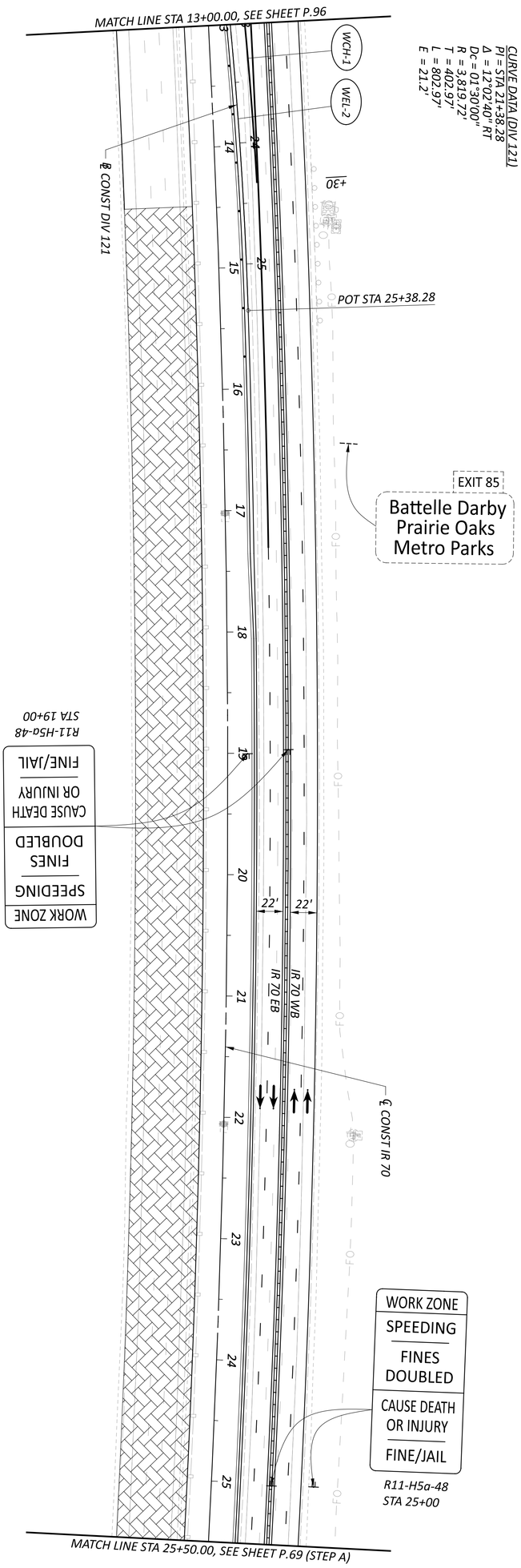

LEGEND

CONSTRUCTION UNDER THIS PHASE

N

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 121 CROSSOVER DETAIL, SEE SHEET P.144

MAINTENANCE OF TRAFFIC PHASE 1 STEP B
STA 13+00.00 TO STA 25+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.97	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MOT_I70 - MOT PHASE 1 STEP C 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:00:59 PM USER: AMerrill
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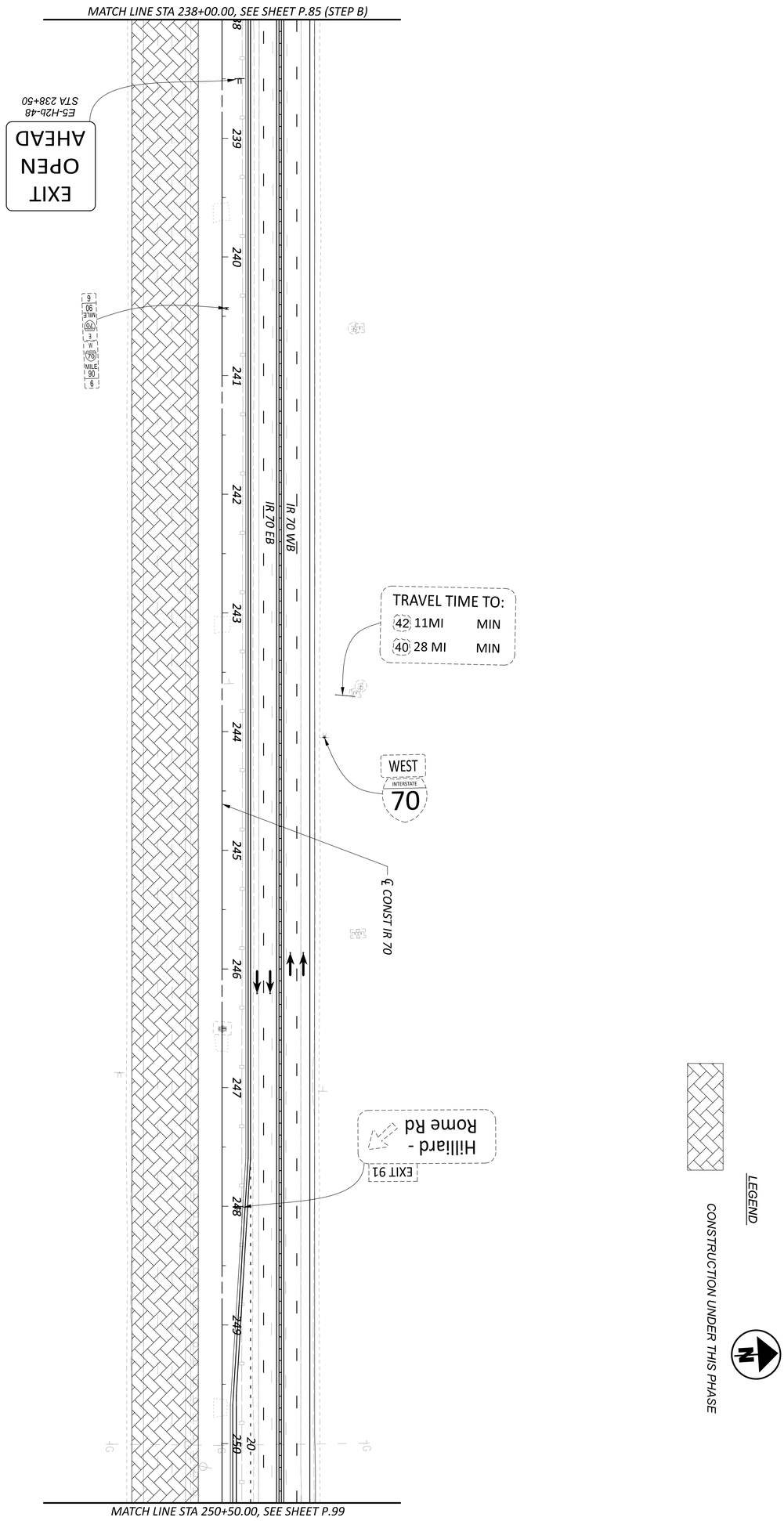


NOTES:

1. *FOR MOT LEGEND, SEE SHEET P.30.*
2. *ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.*
3. *FOR DRUM SPACING, SEE MT-95.40, TABLE II*
4. *FOR DIV 131 CROSSOVER DETAIL, SEE SHEET P.145*

SHEET	TOTAL
P.98	577

PROJECT ID: 116949

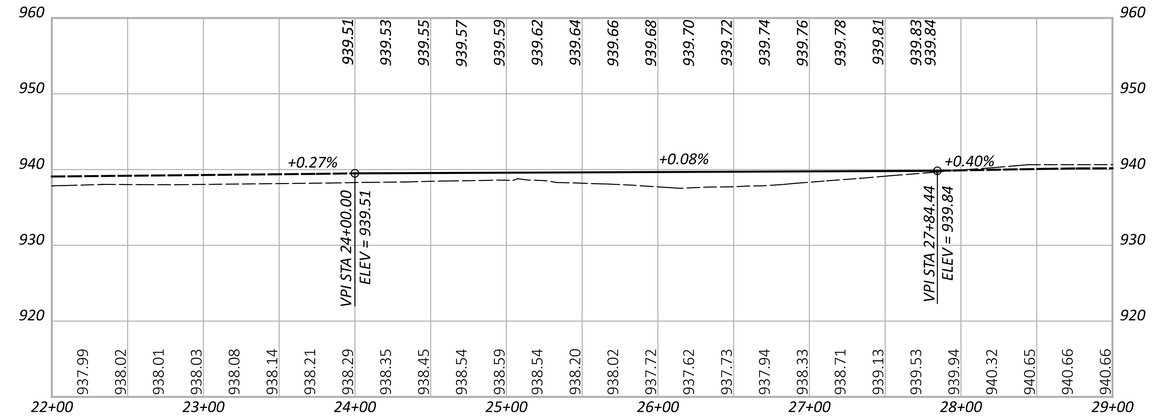
REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

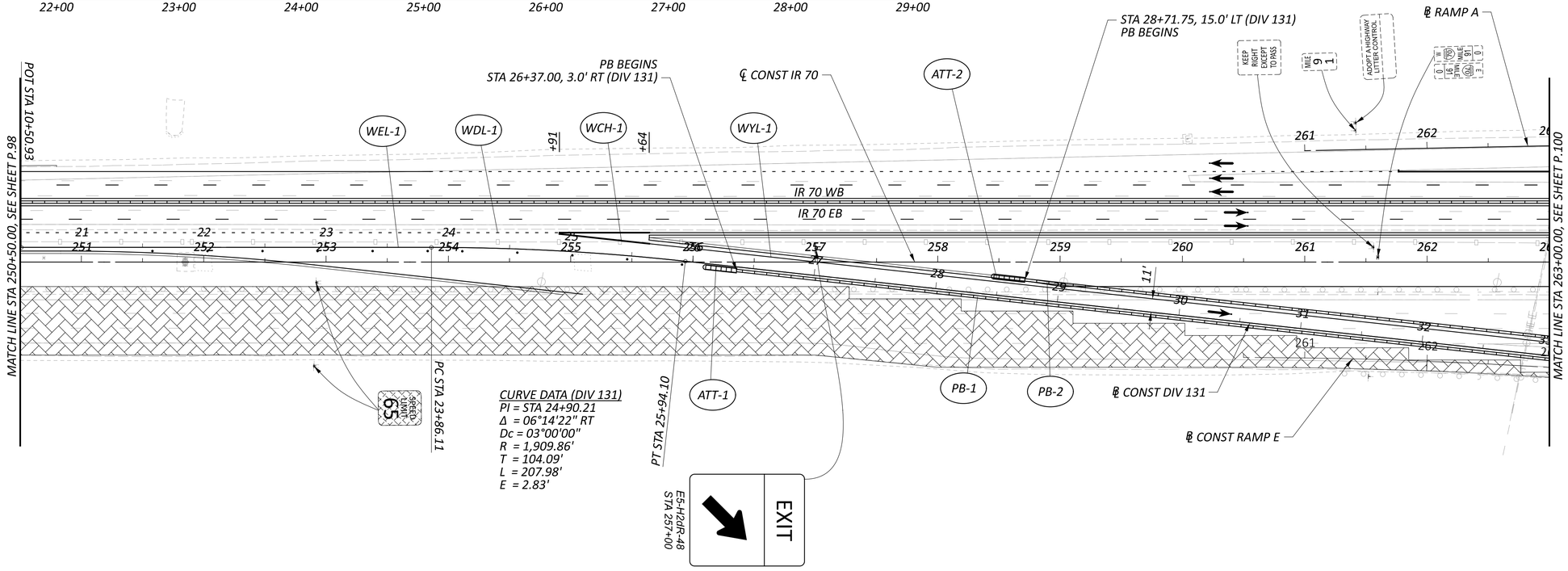
MAINTENANCE OF TRAFFIC PHASE 1 STEP C
STA 238+00.00 TO STA 250+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100



LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 131 CROSSOVER DETAIL, SEE SHEET P.145

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP C
STA 250+50.00 TO STA 263+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.99 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP C 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:00 PM USER: AMerrill
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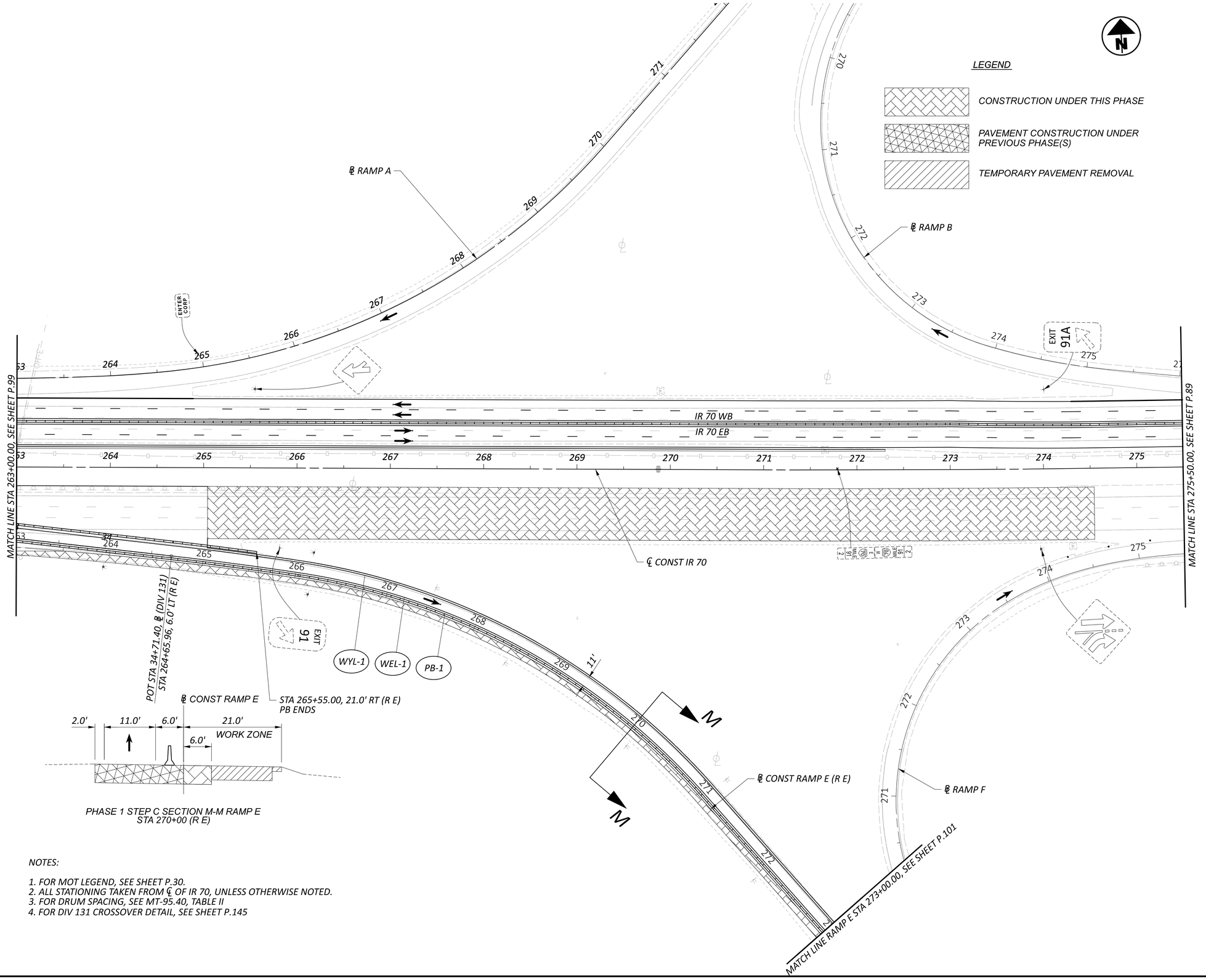

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 131 CROSSOVER DETAIL, SEE SHEET P.145

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP C
STA 263+00.00 TO STA 275+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.100 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - MOT PHASE 1 STEP C 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:01 PM USER: AMerrill
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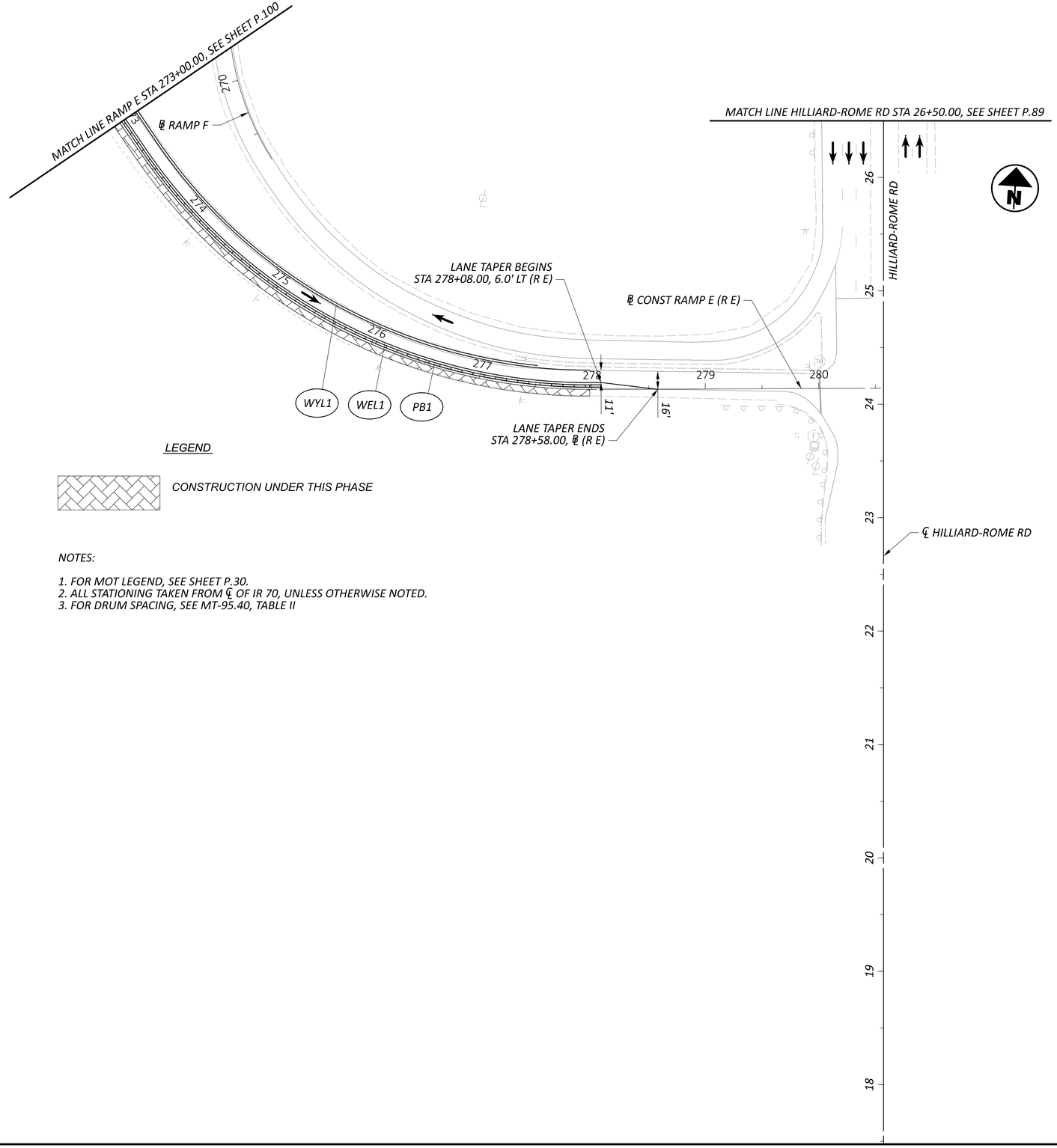

LEGEND

CONSTRUCTION UNDER THIS PHASE

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP C
RAMP E STA 273+00.00 TO STA 280+57.11

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.101 TOTAL 577

FRA-70-00.00

MODEL: MOT_I70 - Hilliard Rome Rd 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:02 PM USER: AMerrill
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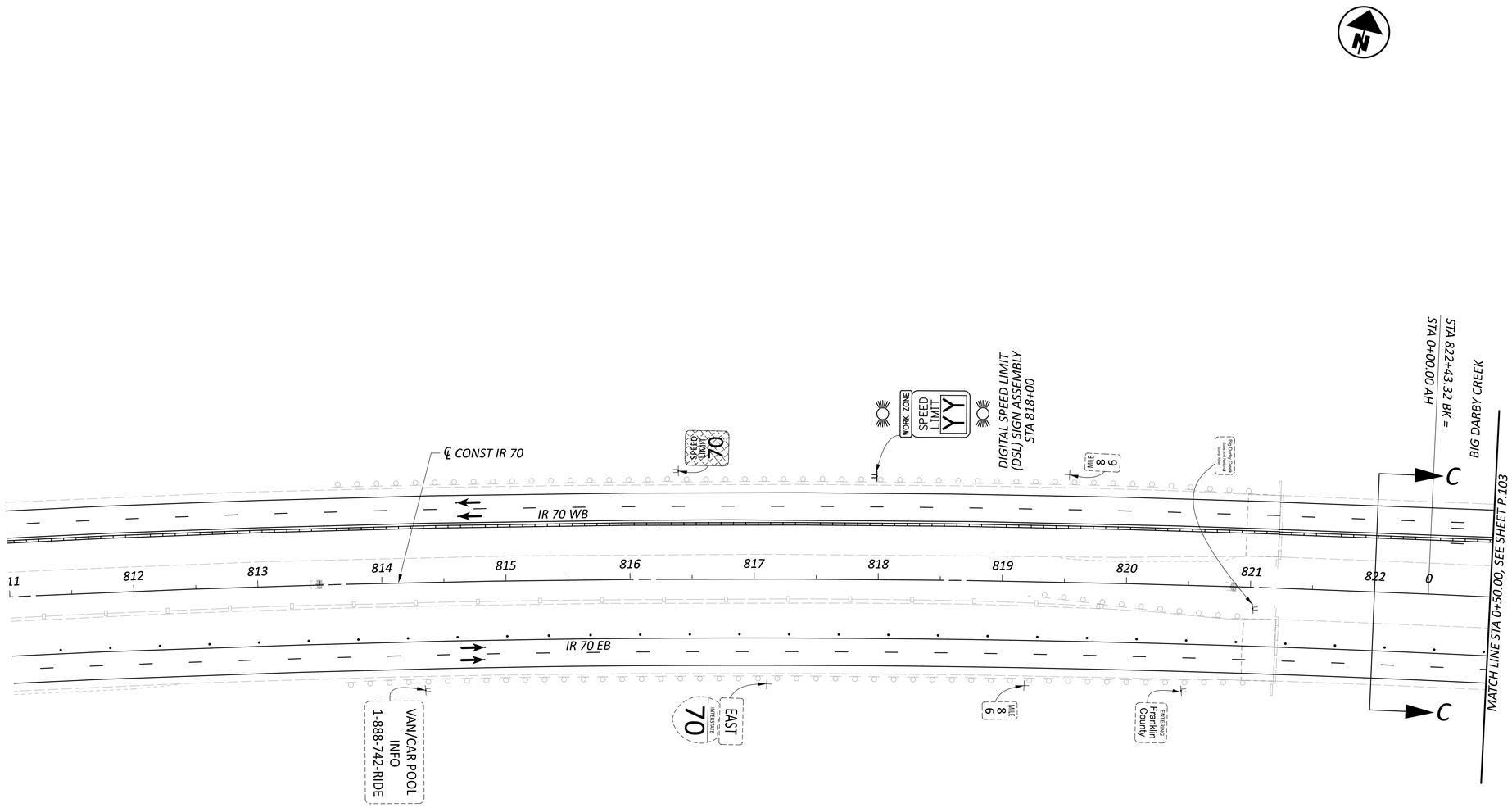

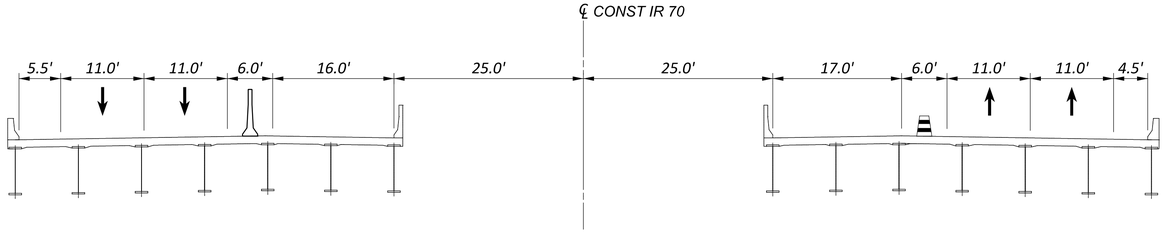

PHASE 1 STEP D SECTION C-C IR 70 OVER BIG DARBY CREEK

NOTES:

1. *FOR MOT LEGEND, SEE SHEET P.30.*
2. *ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.*
3. *FOR DRUM SPACING, SEE MT-95.40, TABLE II*
4. *DURING PHASE 1 STEP D, IR 70 WESTBOUND MARKINGS WILL STAY SAME AS PHASE 1 STEP B AND IR 70 EASTBOUND MARKINGS WILL BE PLACED AS PHASE 2 STEP A*

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 1 STEP D
STA 811+00.00 TO STA 0+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.102 TOTAL 577

FRA-70-00.00

MODEL: MOT_I070 - MOT PHASE 1 STEP D 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 10:46:51 AM USER: AMerrill
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MODEL: MOT_I070 - MOT PHASE 1 STEP D 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 10:48:40 AM USER: AMerrill
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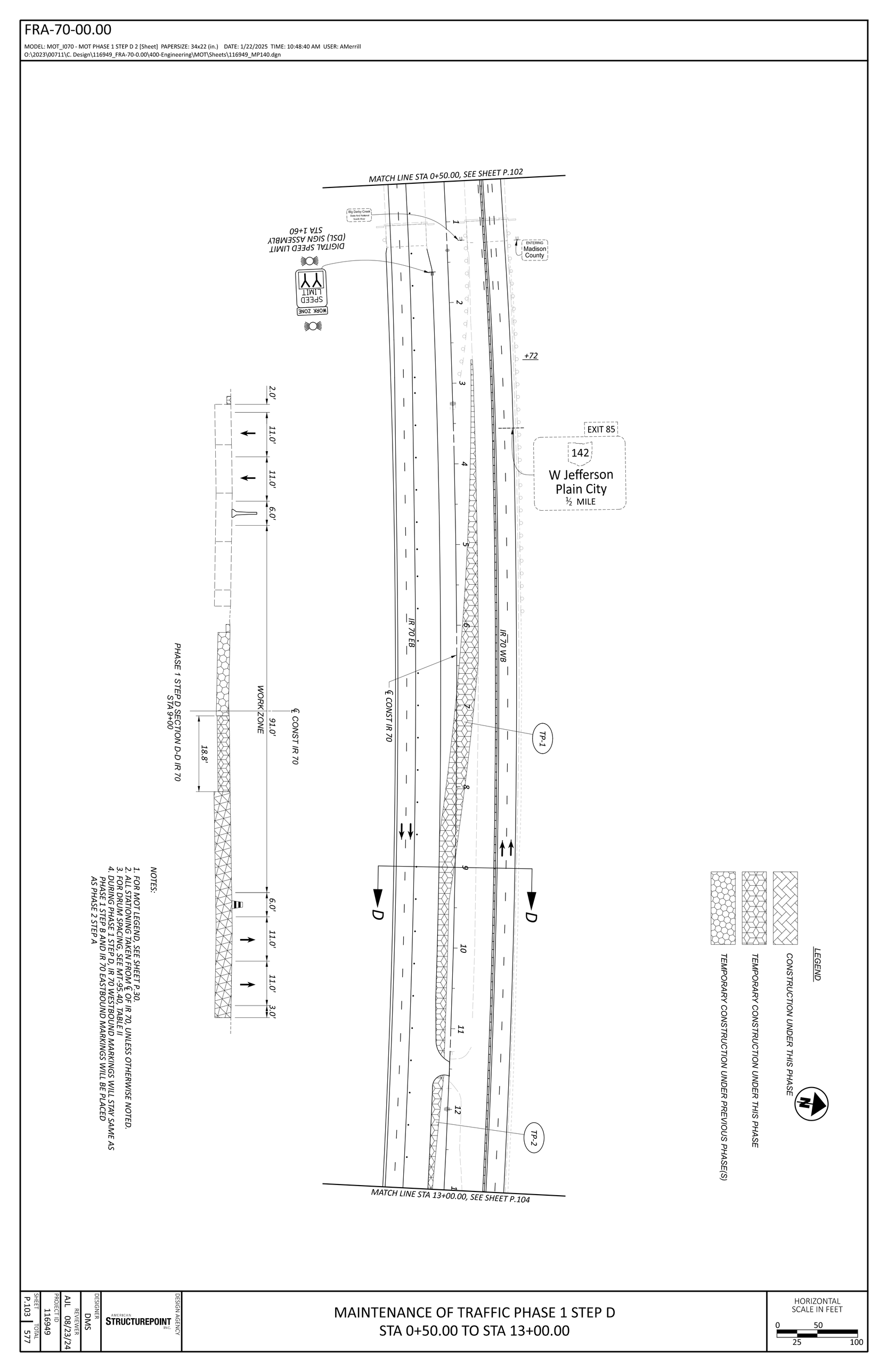

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING PHASE 1 STEP D, IR 70 WESTBOUND MARKINGS WILL STAY SAME AS PHASE 1 STEP B AND IR 70 EASTBOUND MARKINGS WILL BE PLACED AS PHASE 2 STEP A

MAINTENANCE OF TRAFFIC PHASE 1 STEP D
STA 0+50.00 TO STA 13+00.00

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.103
TOTAL	577
DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: MOT_I070 - MOT PHASE 1 STEP D 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 10:50:21 AM USER: AMerrill
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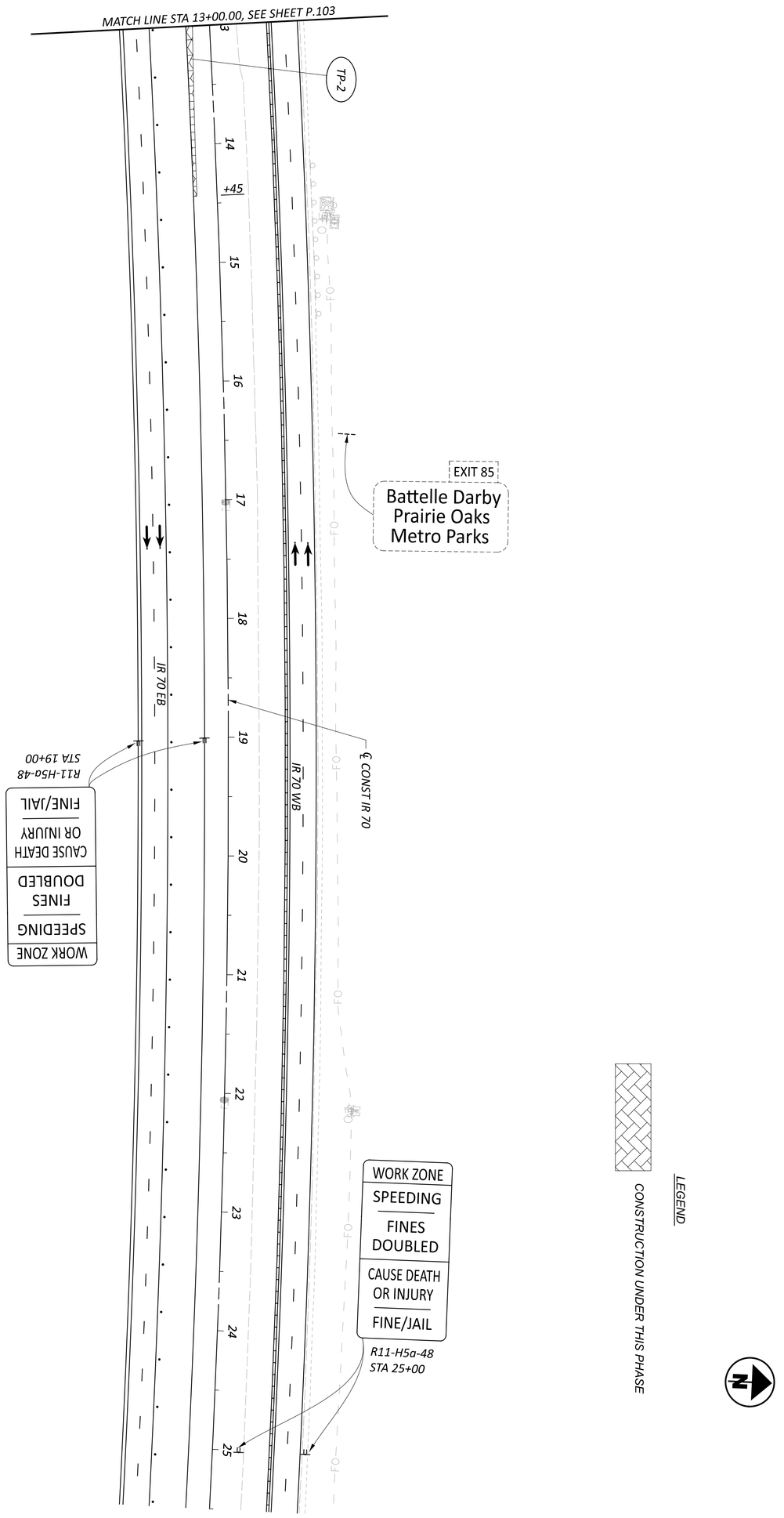

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING PHASE 1 STEP D, IR 70 WESTBOUND MARKINGS WILL STAY SAME AS PHASE 1 STEP B AND IR 70 EASTBOUND MARKINGS WILL BE PLACED AS PHASE 2 STEP A

MAINTENANCE OF TRAFFIC PHASE 1 STEP D
STA 13+00.00 TO STA 25+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.104	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

HORIZONTAL SCALE IN FEET
0 150 300 600

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 700+00.00 TO STA 773+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.105 TOTAL 577

FRA-70-00.00

MODEL: ADVANCED SIGNS 1 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:08 PM USER: AMerrill
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MODEL: MOT PHASE 2 STEP A 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:09 PM USER: AMerrill
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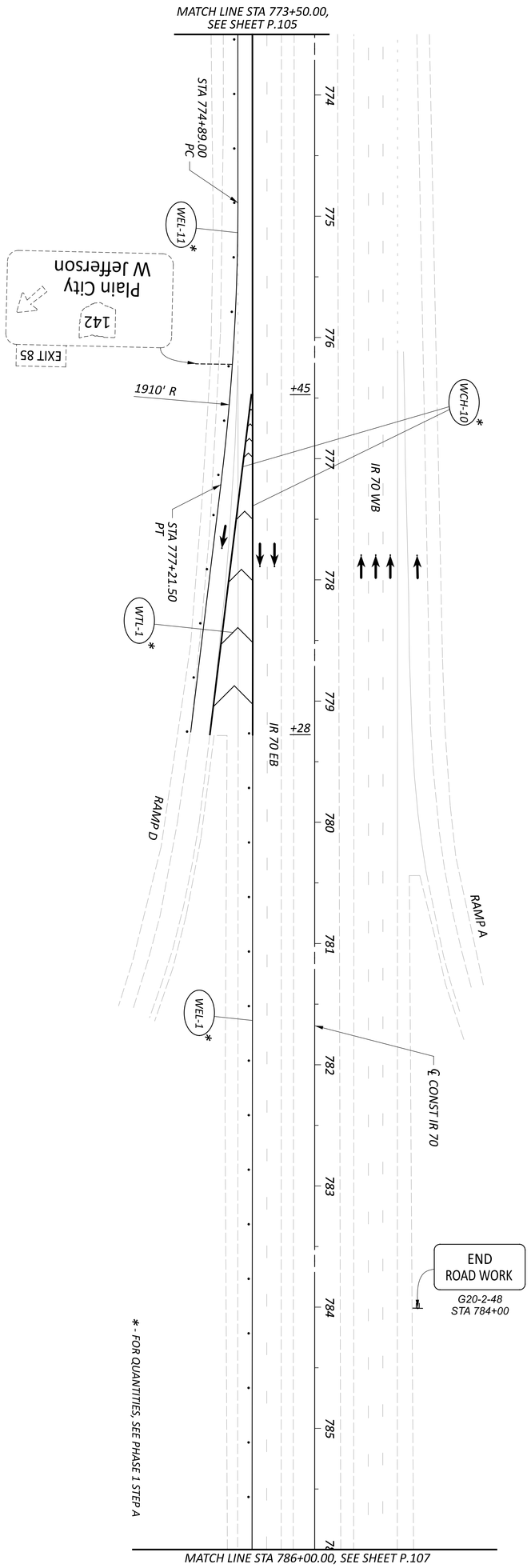


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 773+50.00 TO STA 786+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

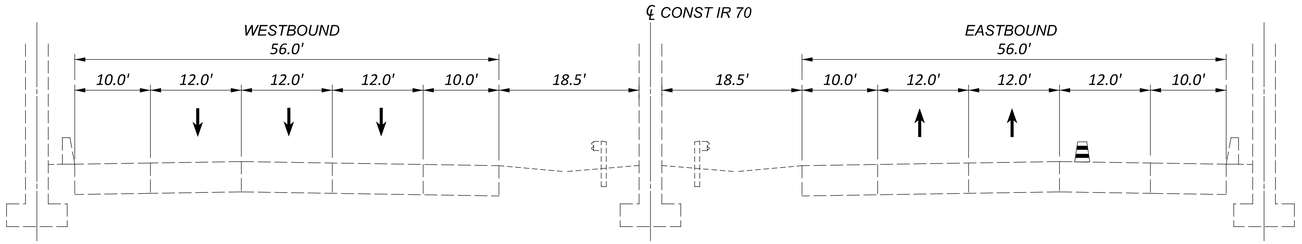
SHEET	TOTAL
P.106	577

PROJECT ID: 116949

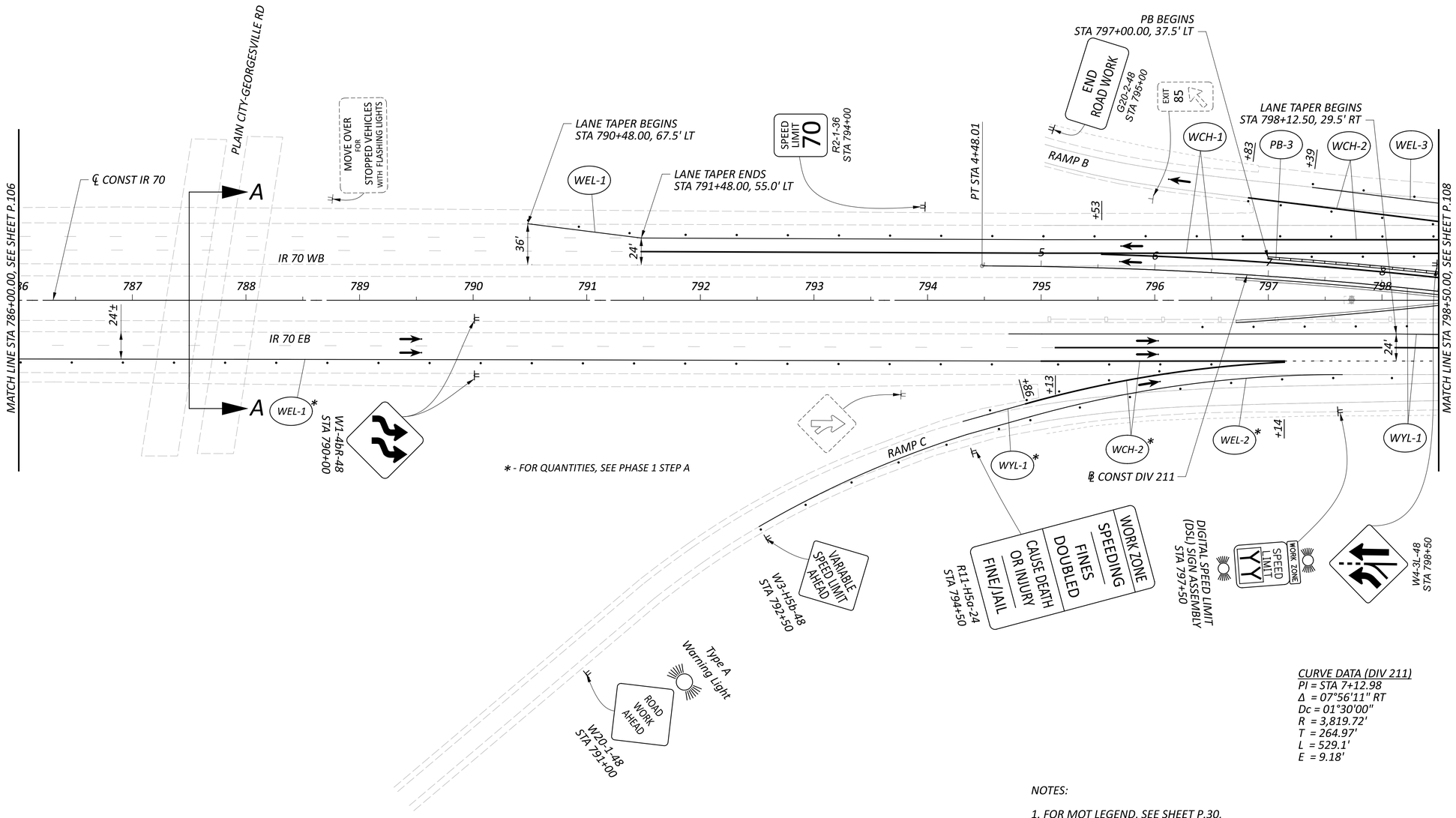
REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



PHASES 1 AND 2 STEP A SECTION A-A IR 70
UNDER PLAIN CITY-GEORGESVILLE RD



∗ - FOR QUANTITIES, SEE PHASE 1 STEP A

CURVE DATA (DIV 211)
PI = STA 7+12.98
Δ = 07°56'11" RT
Dc = 01°30'00"
R = 3,819.72'
T = 264.97'
L = 529.1'
E = 9.18'

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 211 CROSSOVER DETAIL, SEE SHEET P.146

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 786+00.00 TO STA 798+50.00

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.107 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:10 PM USER: AMerrill
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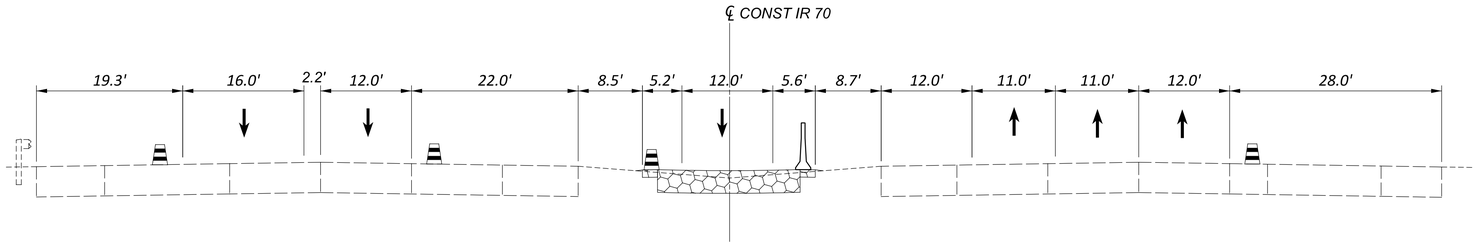
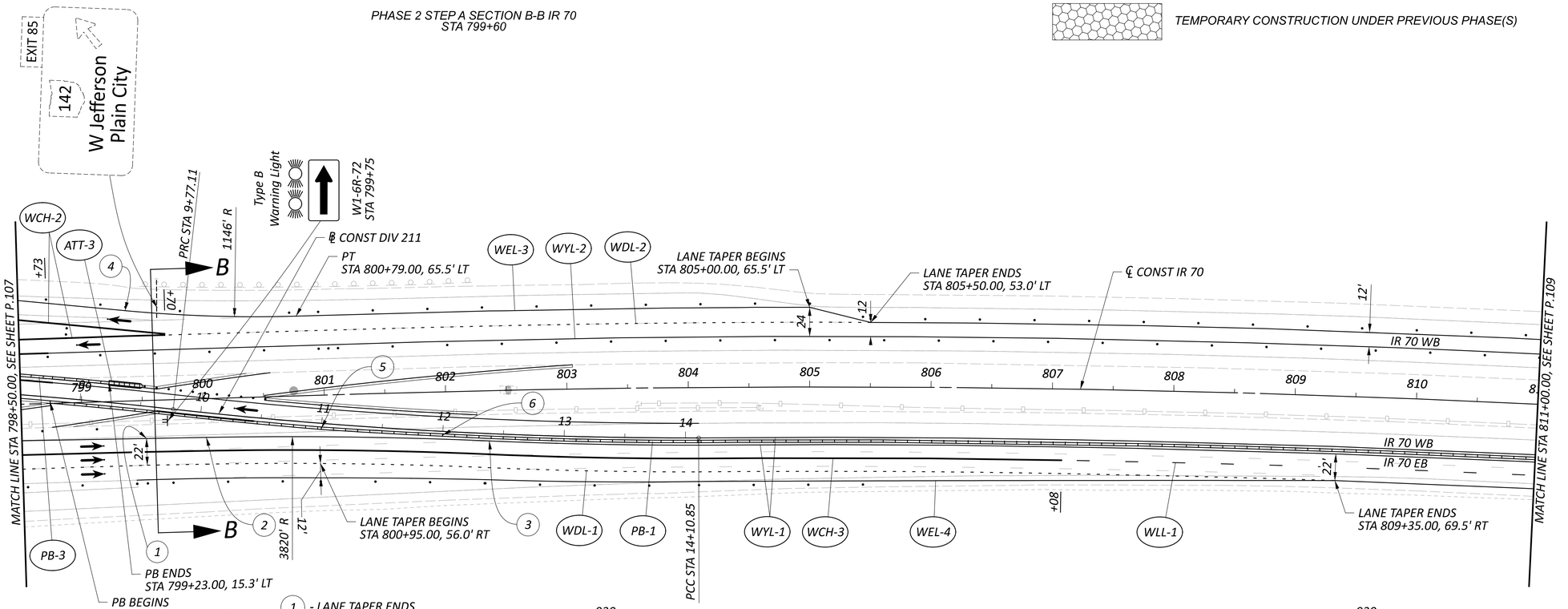


PHASE 2 STEP A SECTION B-B IR 70
STA 799+60

LEGEND

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)



1 - LANE TAPER ENDS
STA 799+52.50, 31.5' RT

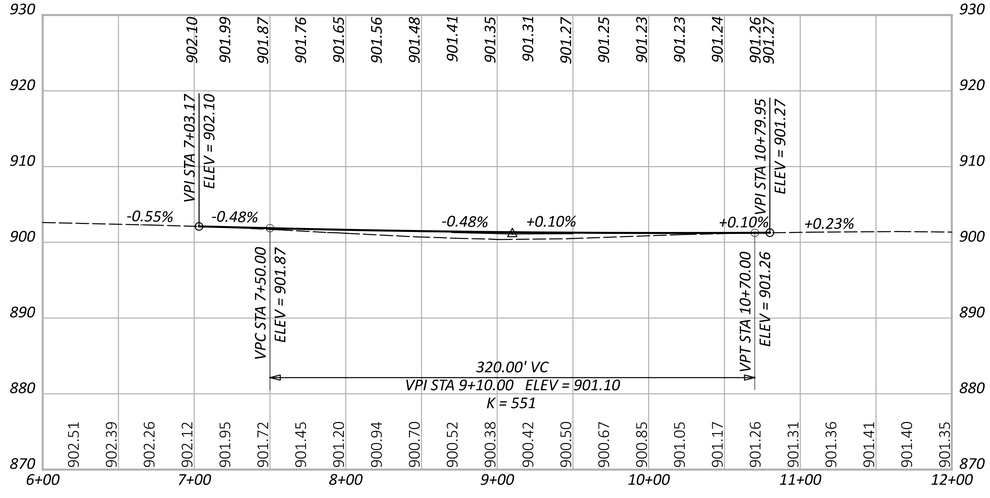
2 - PC
STA 800+02.00, 32.0' RT

3 - PRC
STA 802+38.50, 41.5' RT

4 - PC
STA 799+38.00, 74.5' RT

5 - STA 11+00.00, 4.0' RT (DIV 211)

6 - STA 12+00.00, 3.0' RT (DIV 211)



CURVE DATA (DIV 211)
PI = STA 11+94.21
Δ = 06°30'22" LT
Dc = 01°30'00"
R = 3,819.72'
T = 217.11'
L = 433.75'
E = 6.16'

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 211 CROSSOVER DETAIL, SEE SHEET P.146

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A
STA 798+50.00 TO STA 811+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.108 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:11 PM USER: AMerrill
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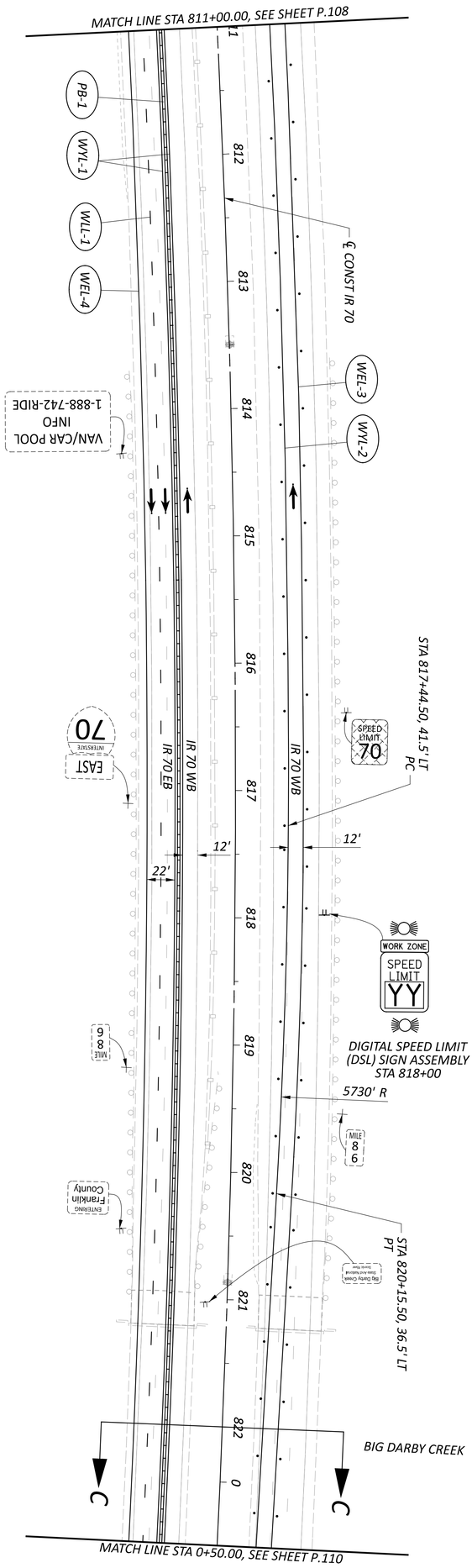
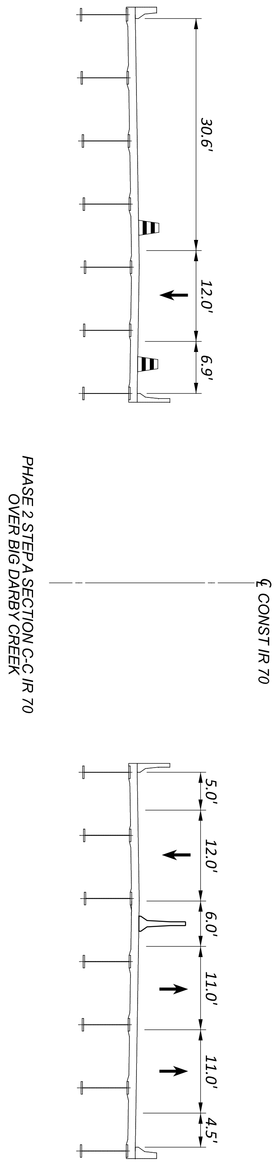
NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

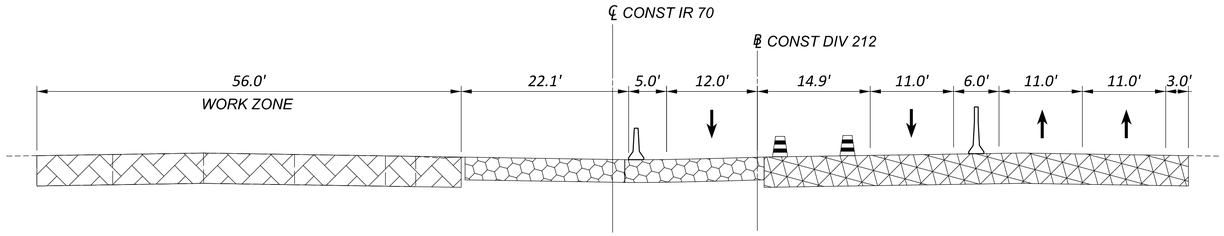




MAINTENANCE OF TRAFFIC PHASE 2 STEP A
STA 811+00.00 TO STA 0+50.00

HORIZONTAL SCALE IN FEET
0 25 50 100

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: DMS
REVIEWER: AJL 08/23/24
PROJECT ID: 116949
SHEET: P.109 TOTAL: 577



PHASE 2 STEP A SECTION D-D IR 70
STA 9+00

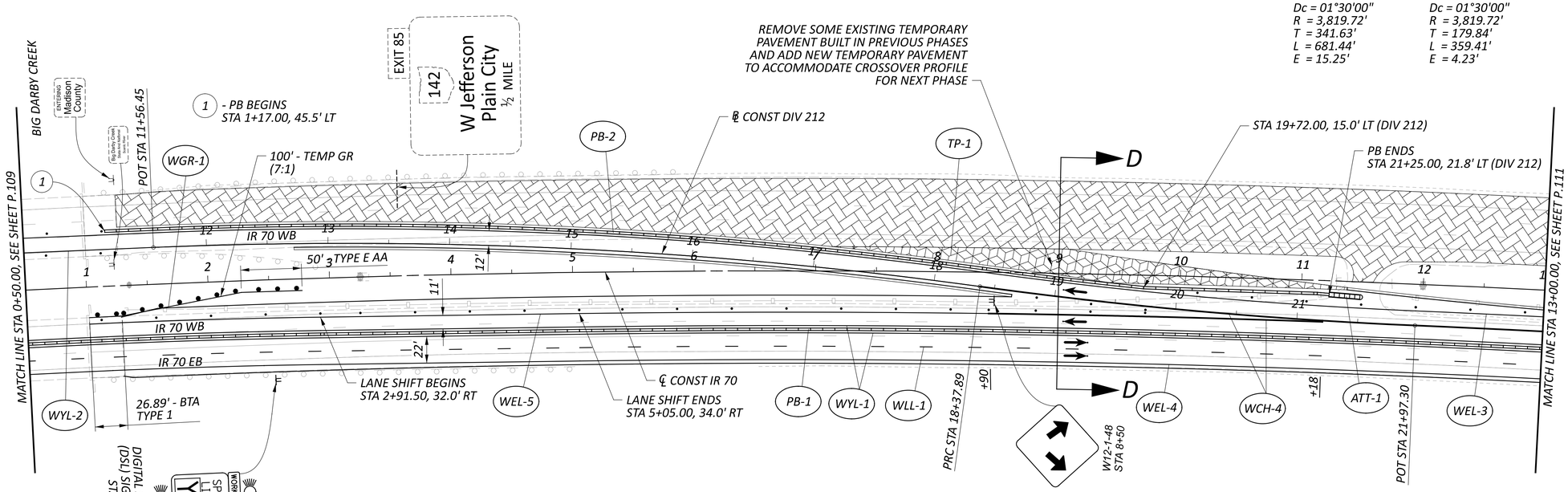
LEGEND

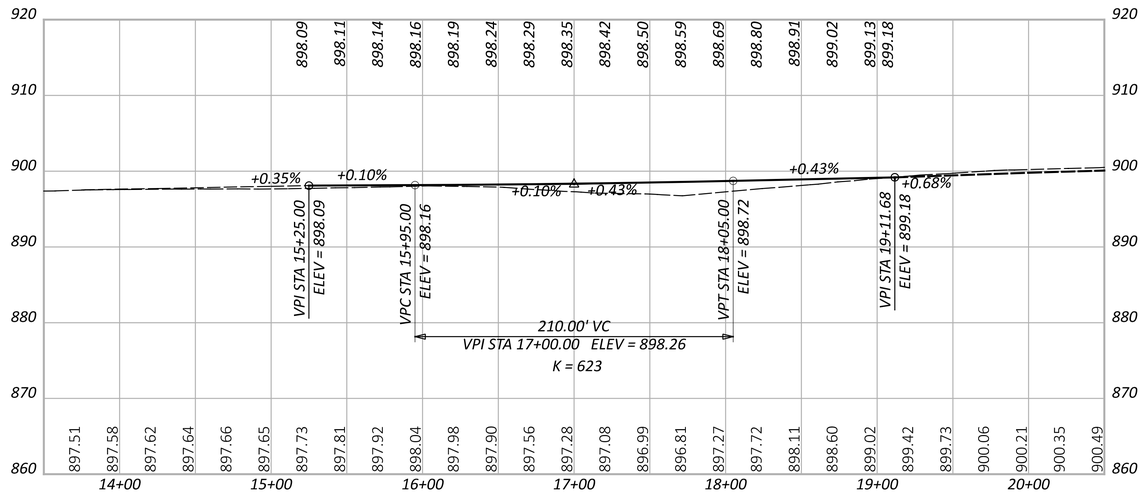
- CONSTRUCTION UNDER THIS PHASE
- TEMPORARY CONSTRUCTION UNDER THIS PHASE
- TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)

HORIZONTAL SCALE IN FEET: 0, 25, 50, 100

CURVE DATA (DIV 212)
PI = STA 14+98.08
Δ = 10°13'18" RT
Dc = 01°30'00"
R = 3,819.72'
T = 341.63'
L = 681.44'
E = 15.25'

CURVE DATA (DIV 212)
PI = STA 20+17.73
Δ = 05°23'28" LT
Dc = 01°30'00"
R = 3,819.72'
T = 179.84'
L = 359.41'
E = 4.23'





NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 212 CROSSOVER DETAIL, SEE SHEET P.147

MAINTENANCE OF TRAFFIC PHASE 2 STEP A
STA 0+50.00 TO STA 13+00.00

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: DMS
REVIEWER: AJL 08/23/24
PROJECT ID: 116949
SHEET: P.110 | TOTAL: 577

FRA-70-00.00

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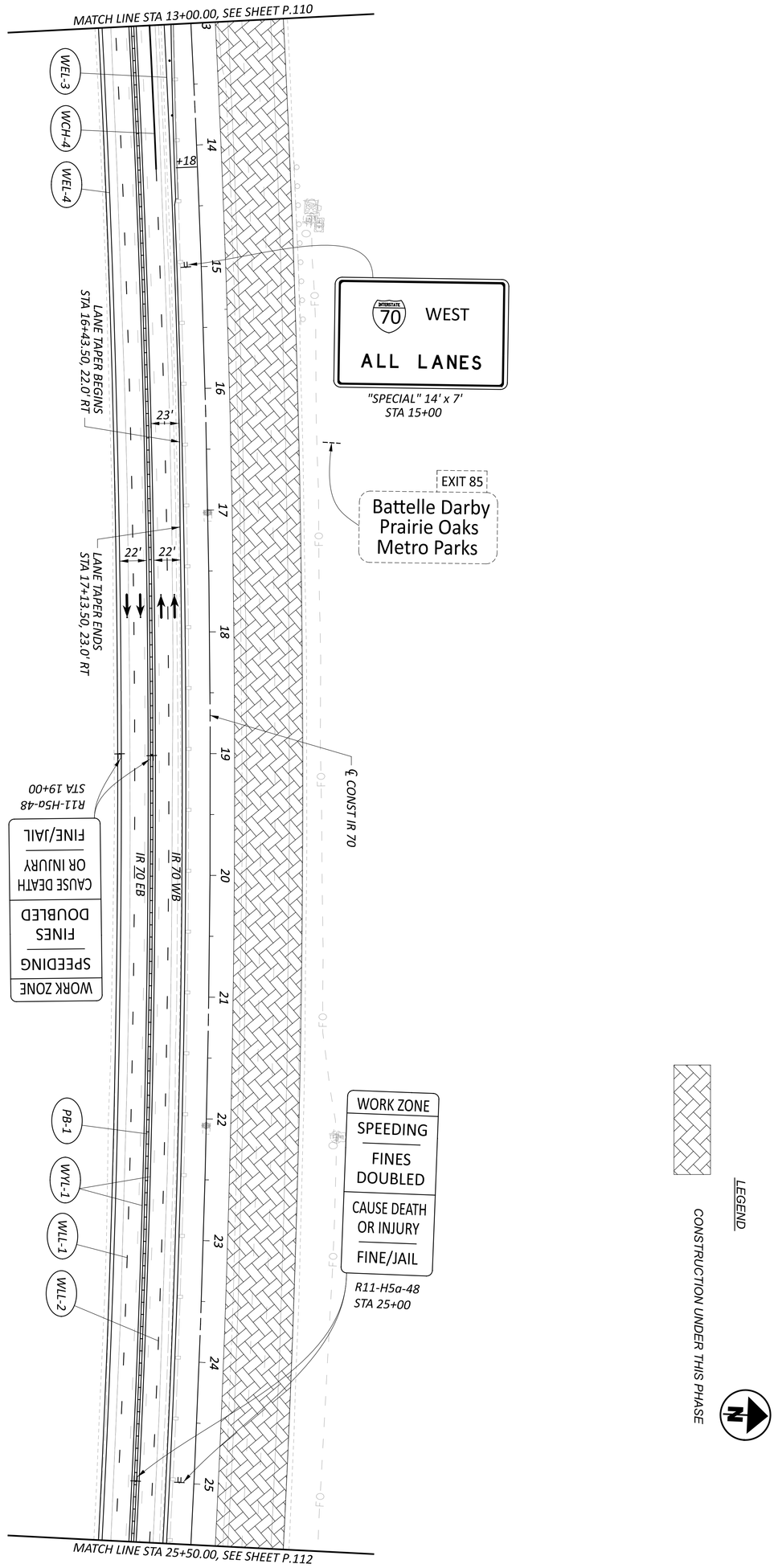

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 2 STEP A
STA 13+00.00 TO STA 25+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.111	577

PROJECT ID: 116949

DESIGNER: DMS
REVIEWER: AJL 08/23/24

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MOT PHASE 2 STEP A 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:15 PM USER: AMerrill
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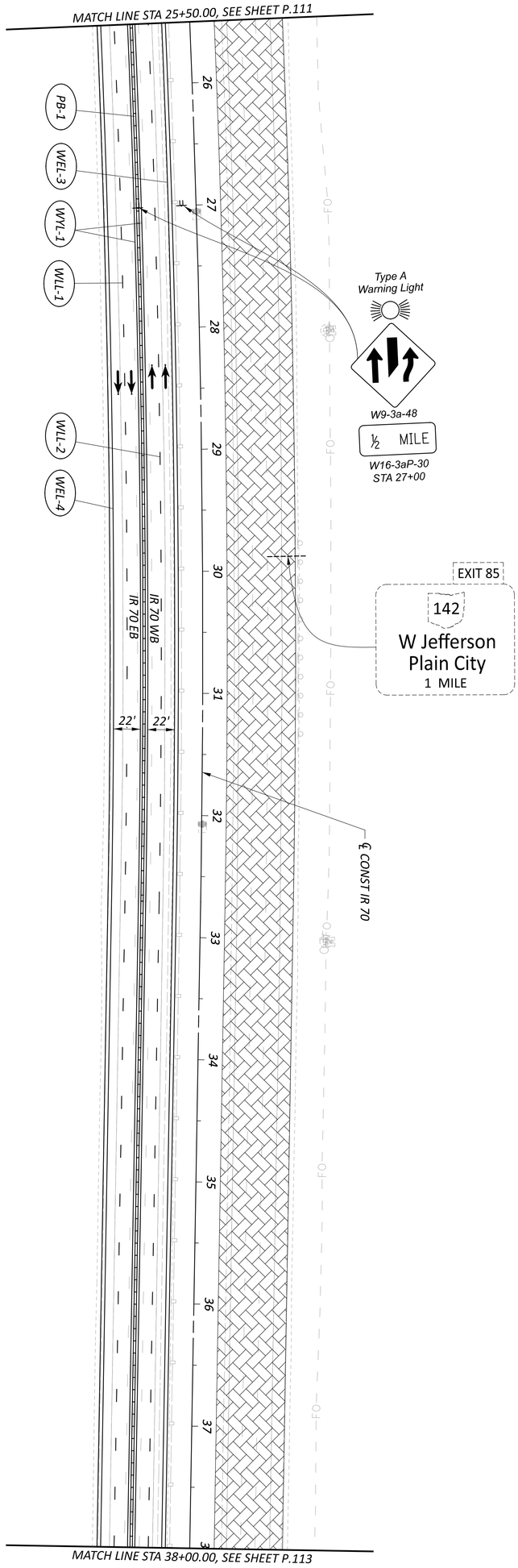
NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.



LEGEND

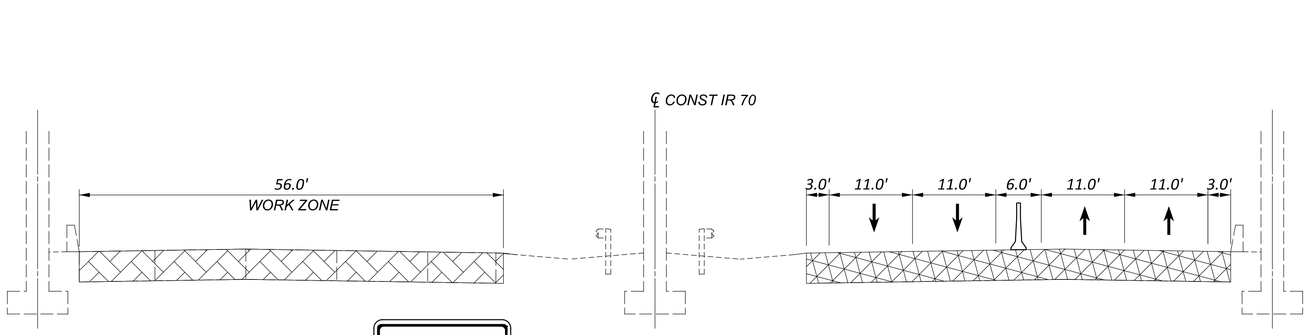
CONSTRUCTION UNDER THIS PHASE

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 25+50.00 TO STA 38+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.112	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



PHASE 2 STEP A SECTION E-E IR 70
UNDER ROBERTS RD



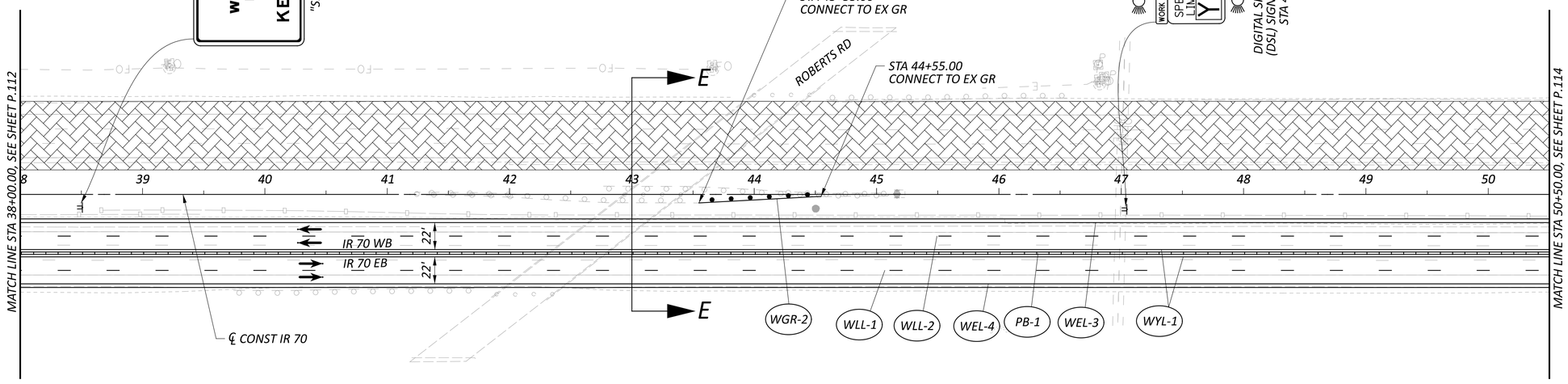
"SPECIAL" 14' x 7'
STA 38+50

LEGEND

CONSTRUCTION UNDER THIS PHASE

CONSTRUCTION UNDER PREVIOUS PHASE(S)

HORIZONTAL
SCALE IN FEET
0 25 50 100



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 38+00.00 TO STA 50+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.113 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:15 PM USER: AMerrill
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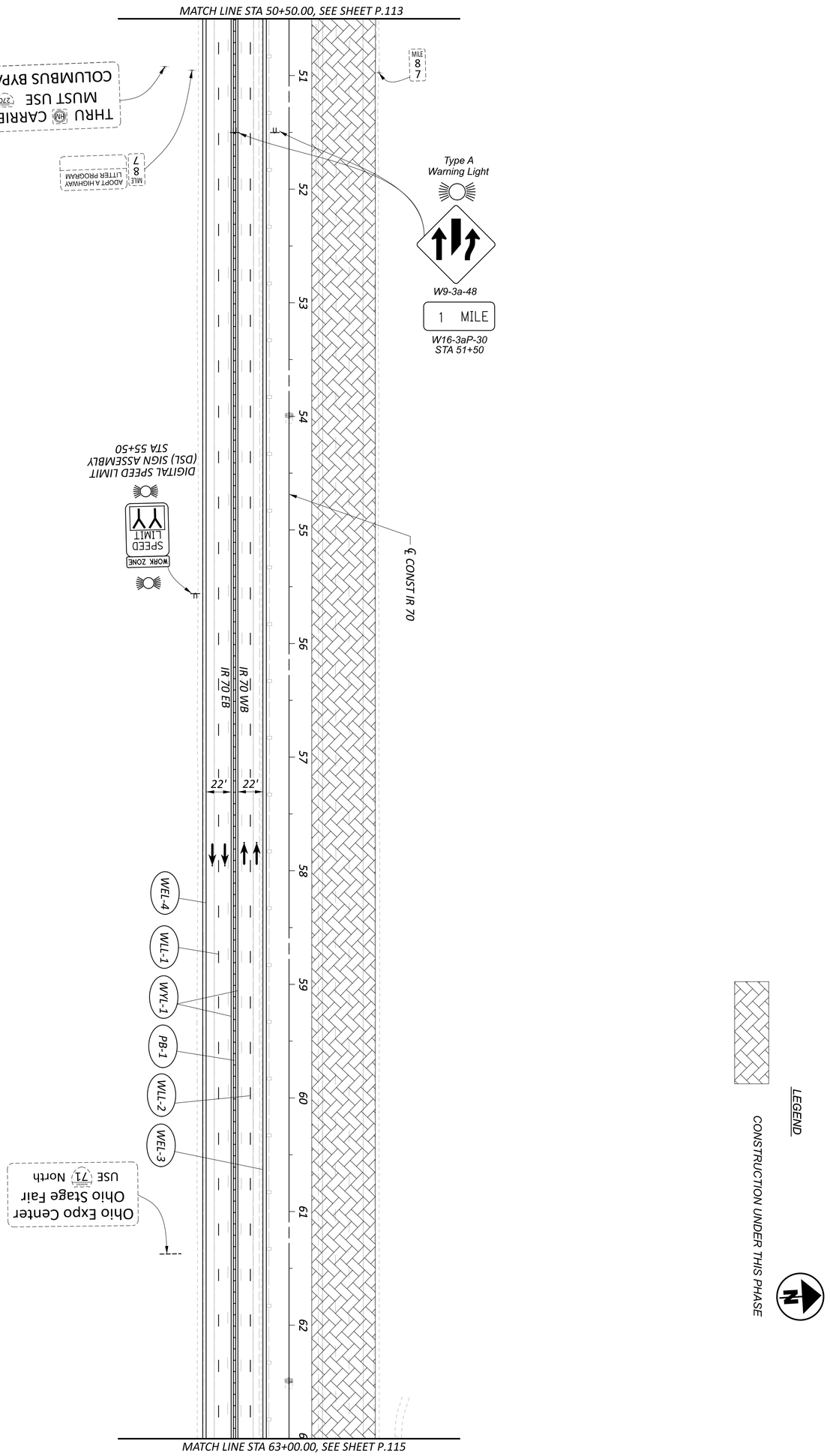


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

LEGEND

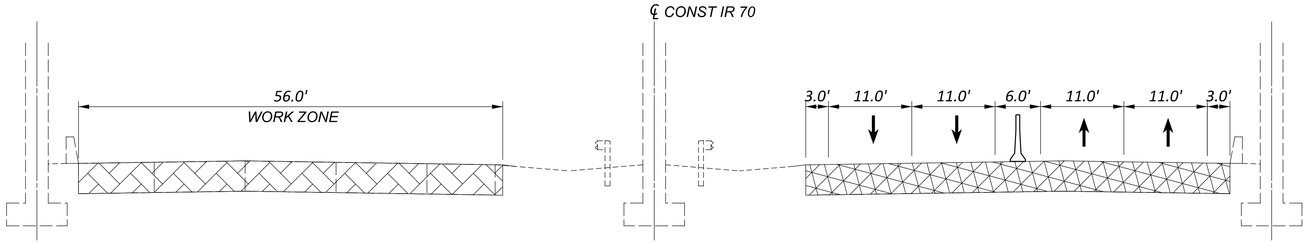
CONSTRUCTION UNDER THIS PHASE

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 50+50.00 TO STA 63+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.114	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

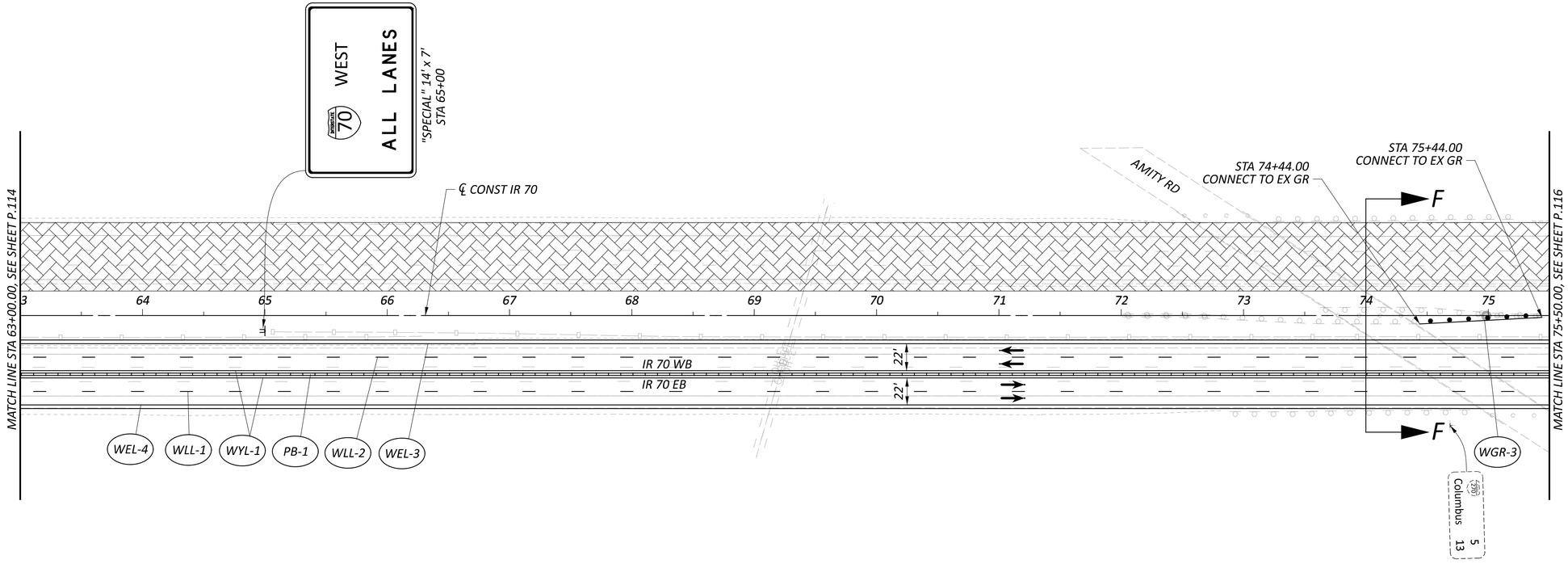


PHASE 2 STEP A SECTION F-F IR 70
UNDER AMITY RD

LEGEND

CONSTRUCTION UNDER THIS PHASE

CONSTRUCTION UNDER PREVIOUS PHASE(S)



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 63+00.00 TO STA 75+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.115 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:17 PM USER: AMerrill
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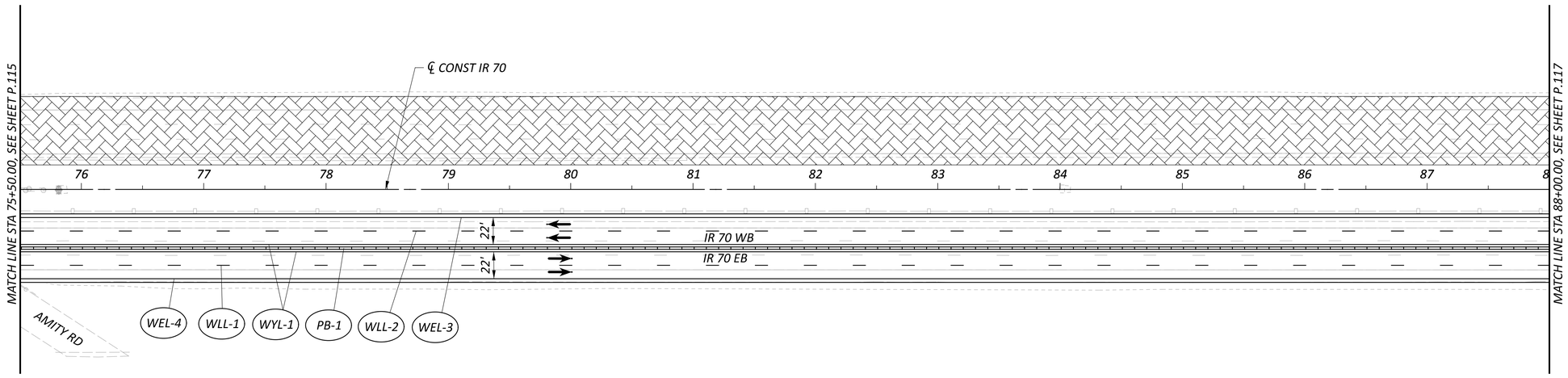
LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 75+50.00 TO STA 88+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.116 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:17 PM USER: AMerrill
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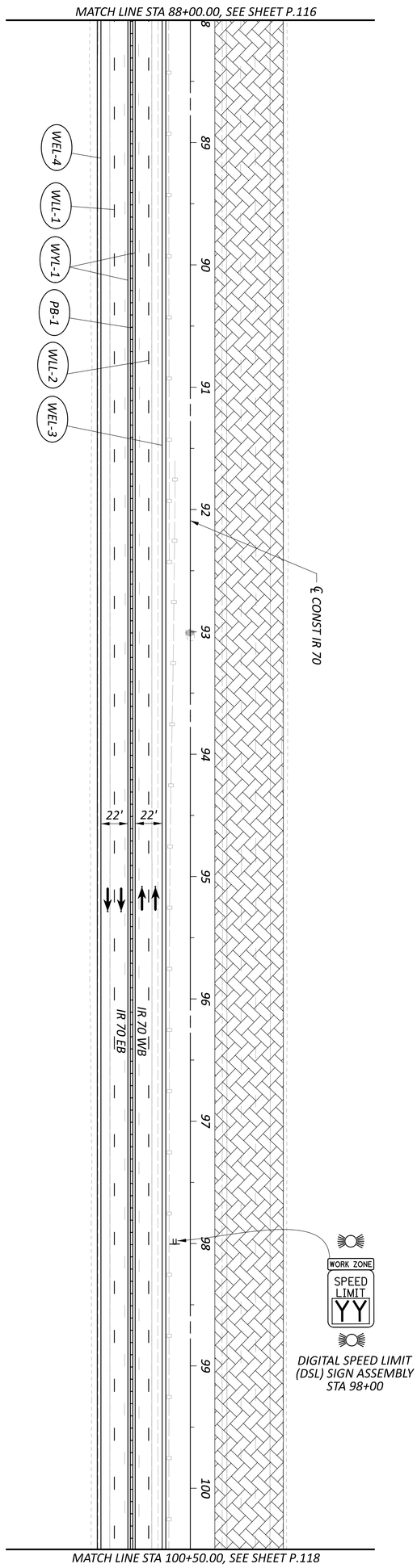
NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.



LEGEND

CONSTRUCTION UNDER THIS PHASE

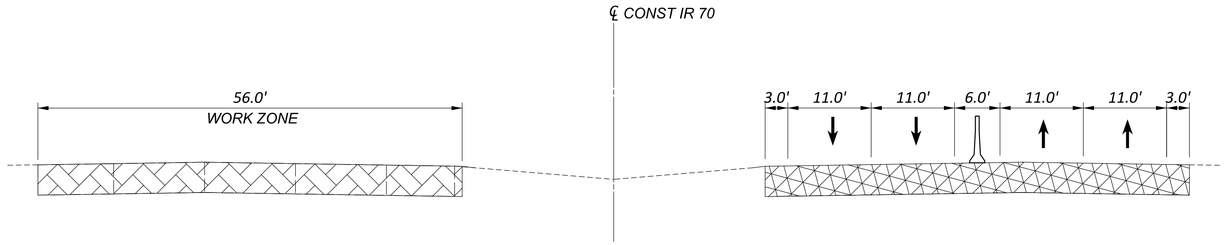
N

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 88+00.00 TO STA 100+50.00

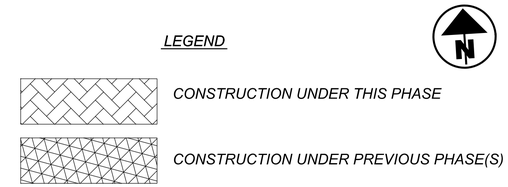
HORIZONTAL SCALE IN FEET
0 50
25 100

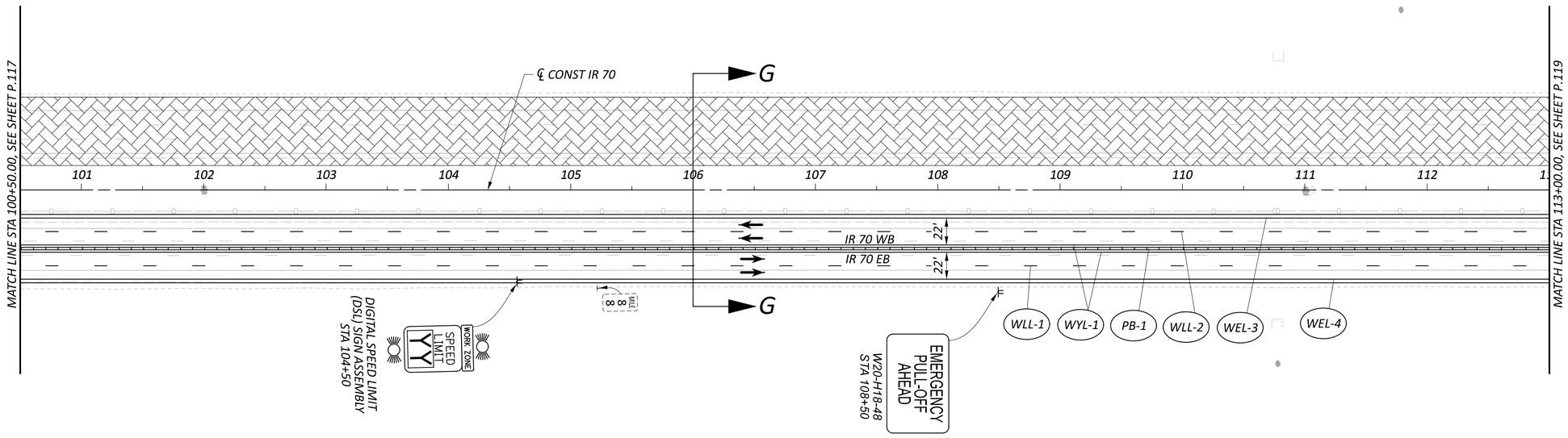
DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.117	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



PHASE 2 STEP A SECTION G-G IR 70
STA 106+00





NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 100+50.00 TO STA 113+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.118 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 13 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:19 PM USER: AMerrill
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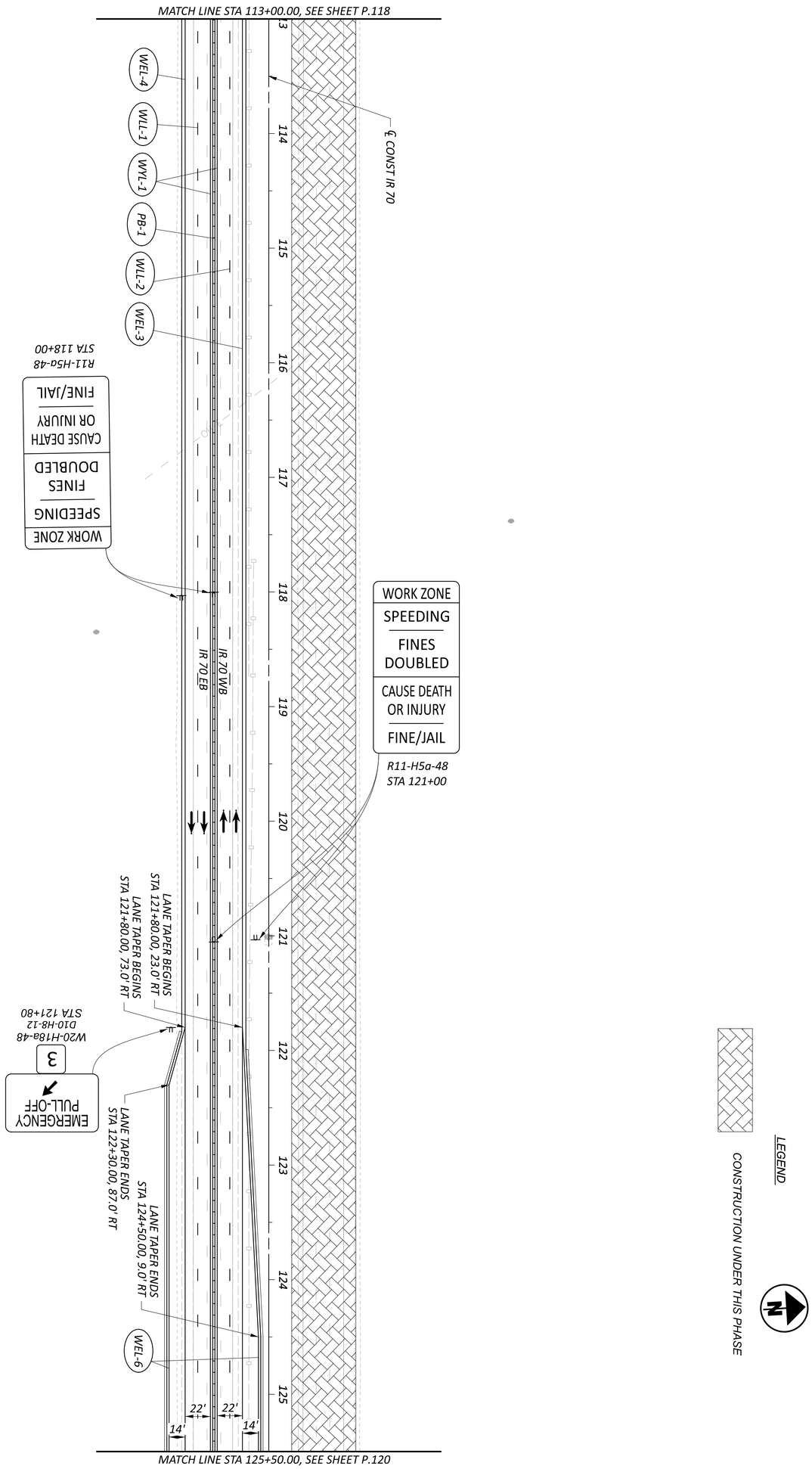


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

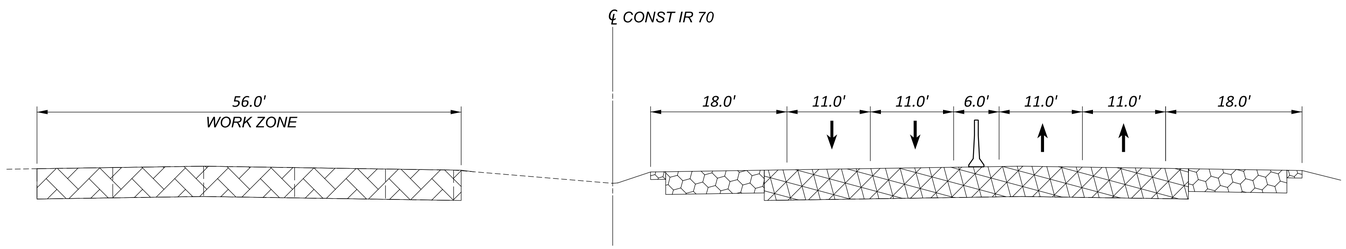
DESIGNER	REVIEWER	DESIGN AGENCY
DMS	AJL 08/23/24	AMERICAN STRUCTUREPOINT INC.

PROJECT ID 116949

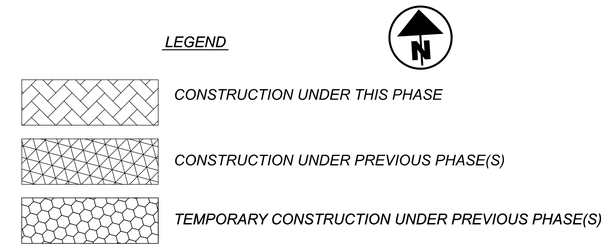
SHEET P.119 | TOTAL 577

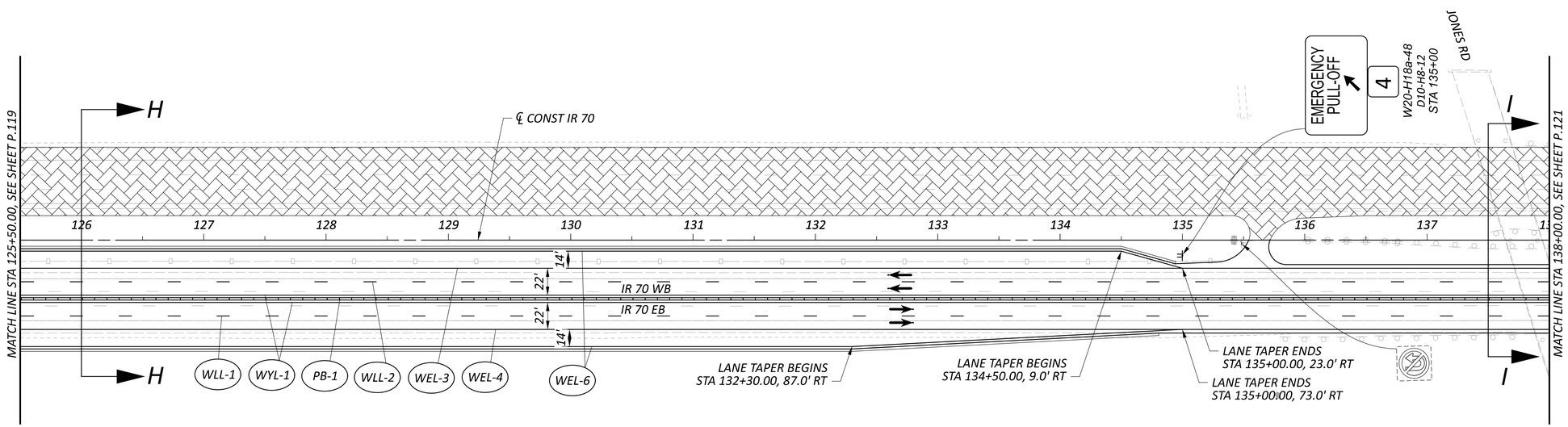
MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 113+00.00 TO STA 125+50.00

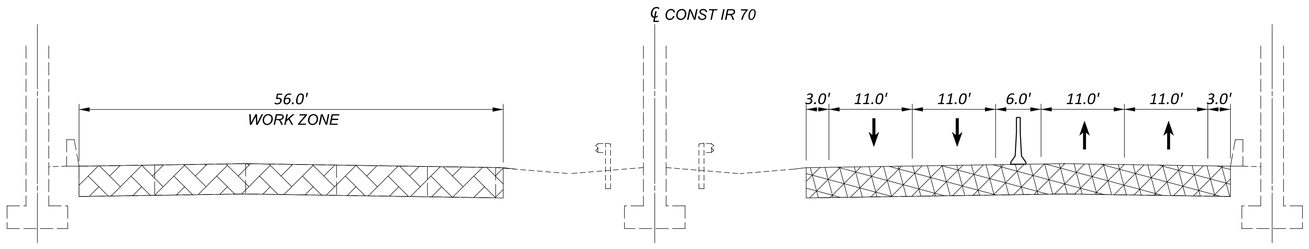
HORIZONTAL SCALE IN FEET
0 50
25 100



PHASE 2 STEP A SECTION H-H IR 70
STA 126+00







PHASE 2 STEP A SECTION I-I IR 70
UNDER JONES RD

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 125+50.00 TO STA 138+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.120 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:20 PM USER: AMerrill
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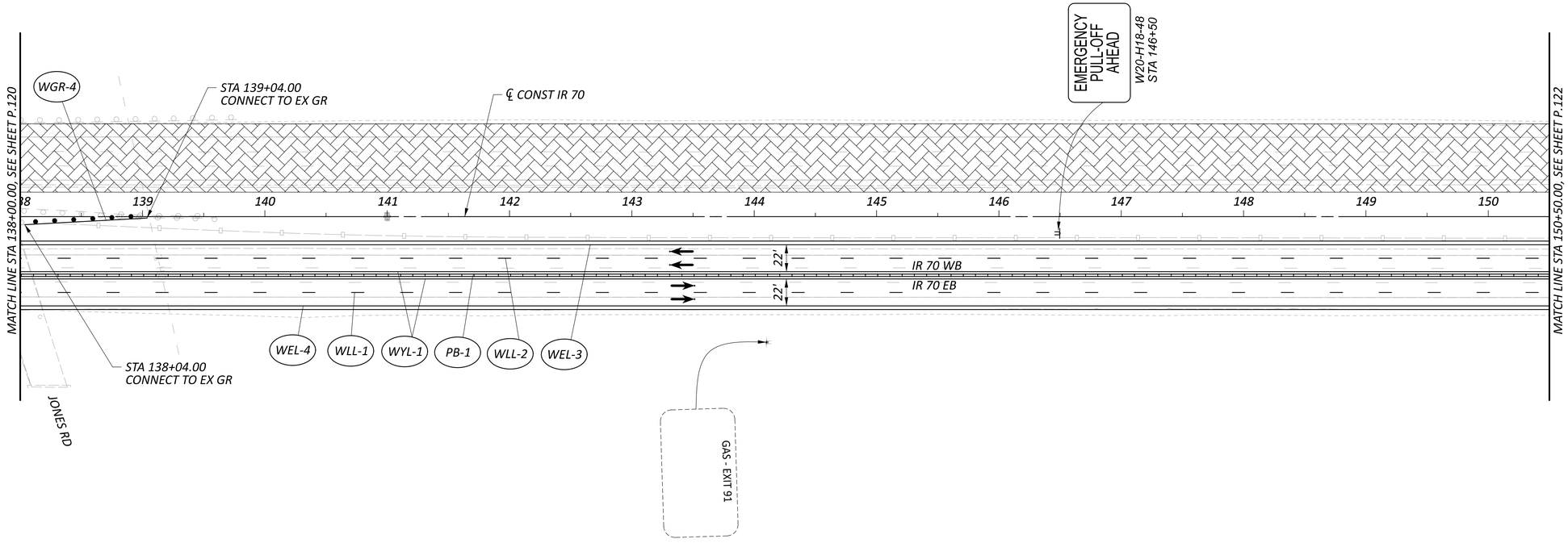
LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 138+00.00 TO STA 150+50.00

DESIGN AGENCY
WEPFER STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.121 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 16 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:21 PM USER: AMerrill
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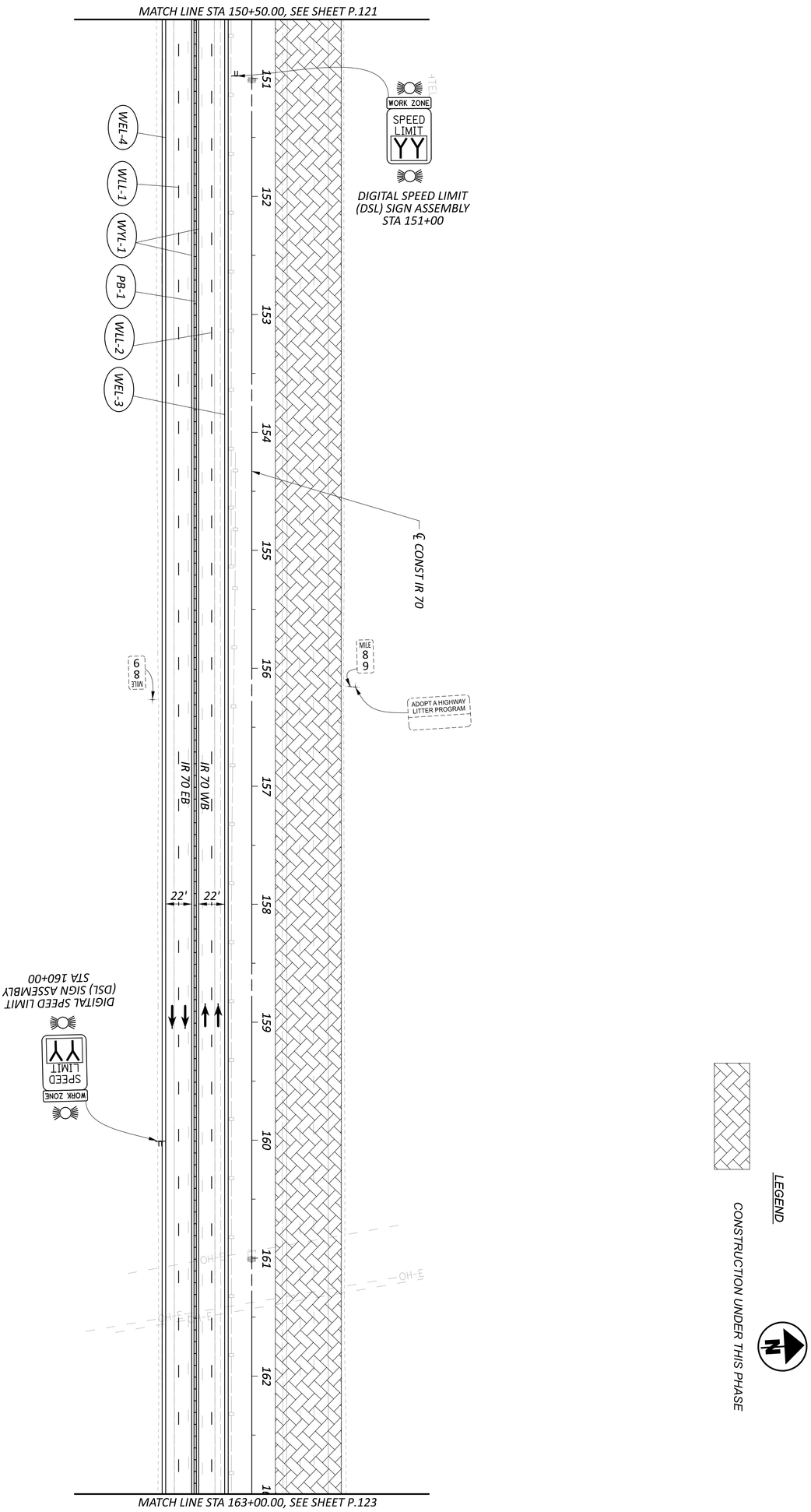


NOTES:

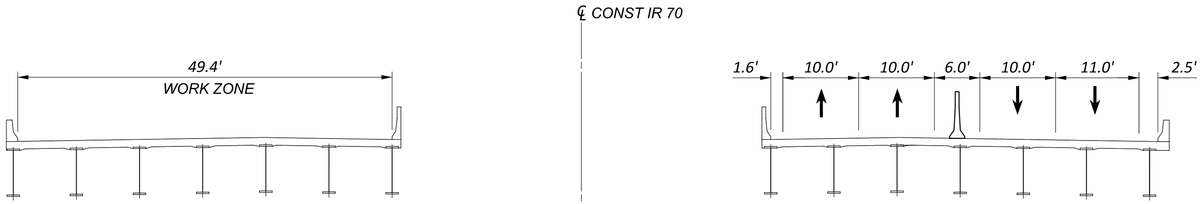
1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 150+50.00 TO STA 163+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.122	577

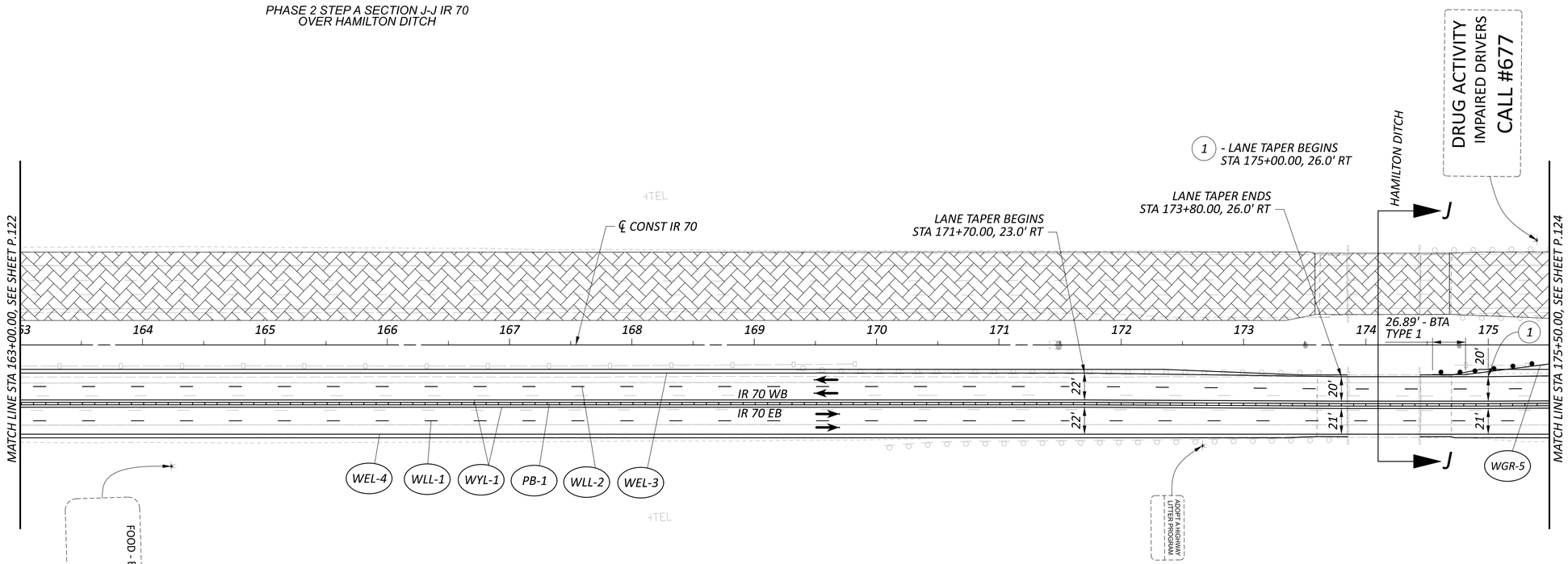
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



PHASE 2 STEP A SECTION J-J IR 70
OVER HAMILTON DITCH

LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

HORIZONTAL
SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 163+00.00 TO STA 175+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.123 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 18 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:22 PM USER: AMerrill
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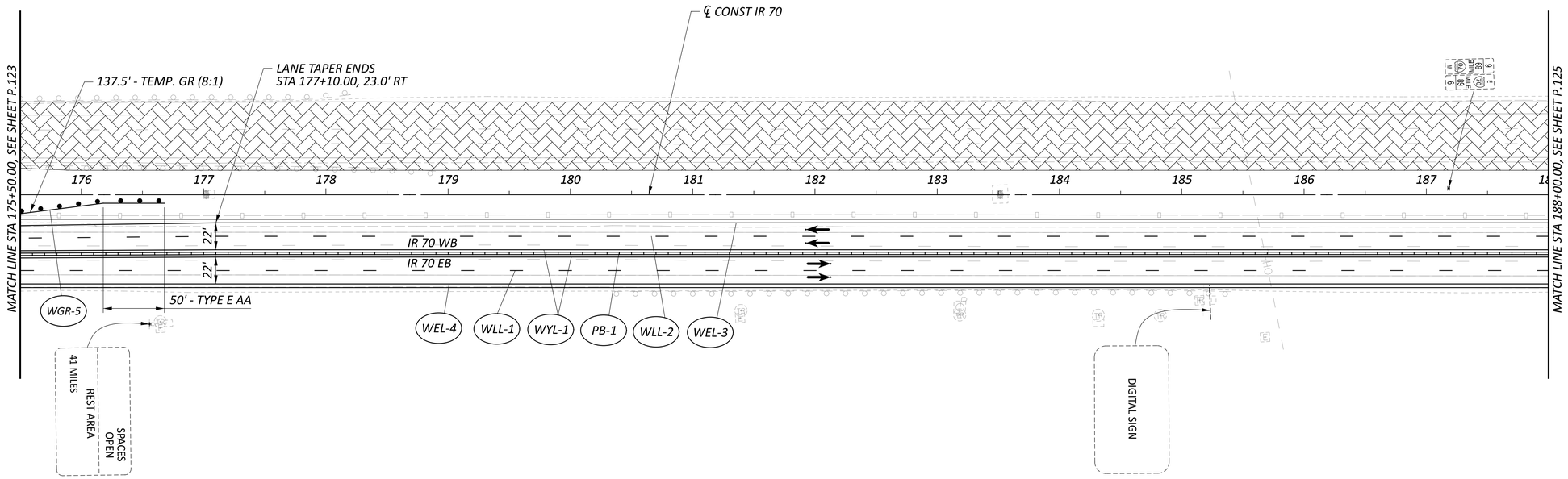
LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 175+50.00 TO STA 188+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.124 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 19 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:23 PM USER: AMerrill
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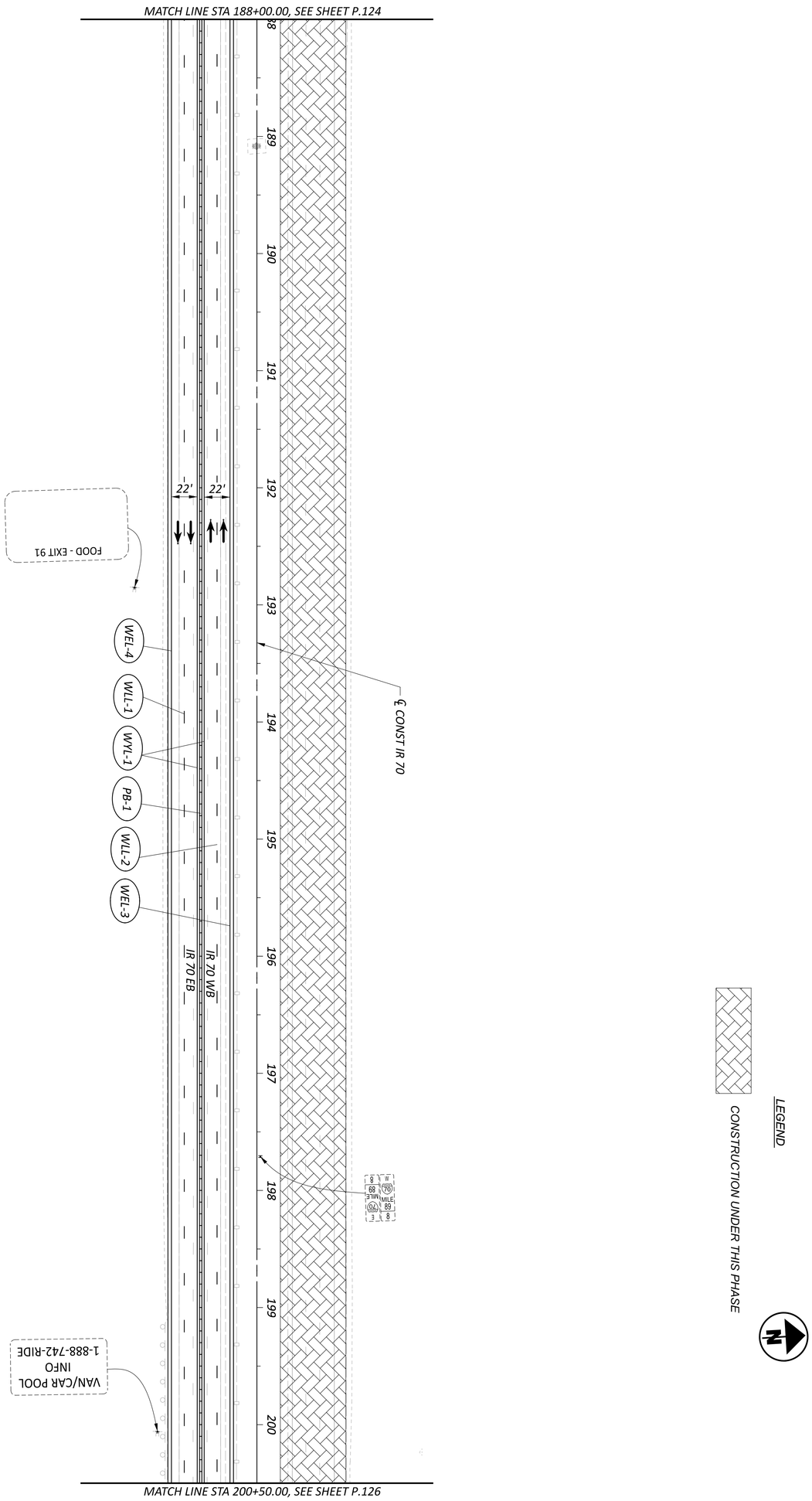

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

LEGEND

CONSTRUCTION UNDER THIS PHASE

N

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 188+00.00 TO STA 200+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	DESIGN AGENCY	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	AMERICAN STRUCTUREPOINT INC.	116949	P.125	577

MODEL: MOT PHASE 2 STEP A 21 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:24 PM USER: AMerrill
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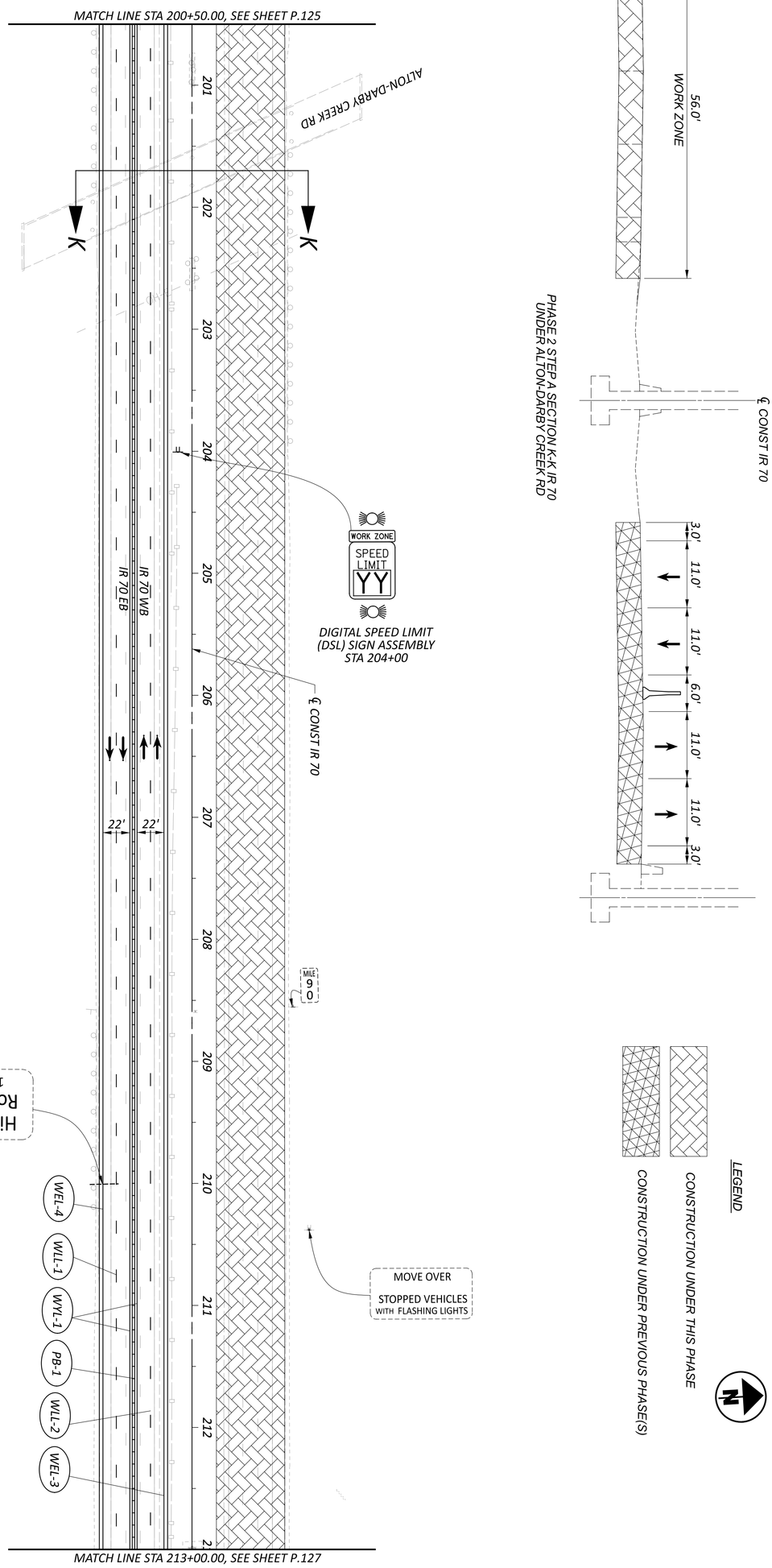


NOTES:

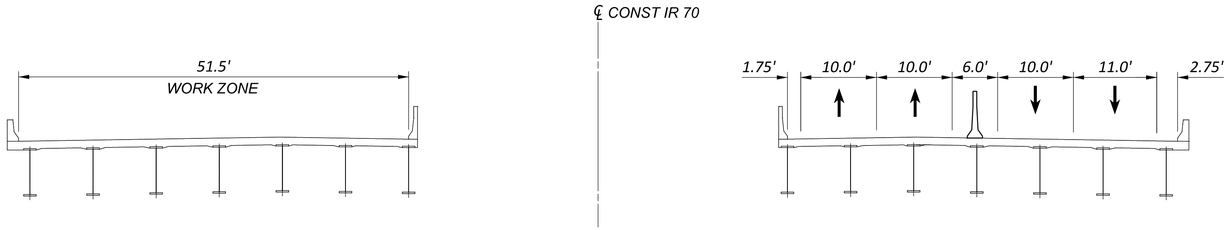
1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 200+50.00 TO STA 213+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.126	577

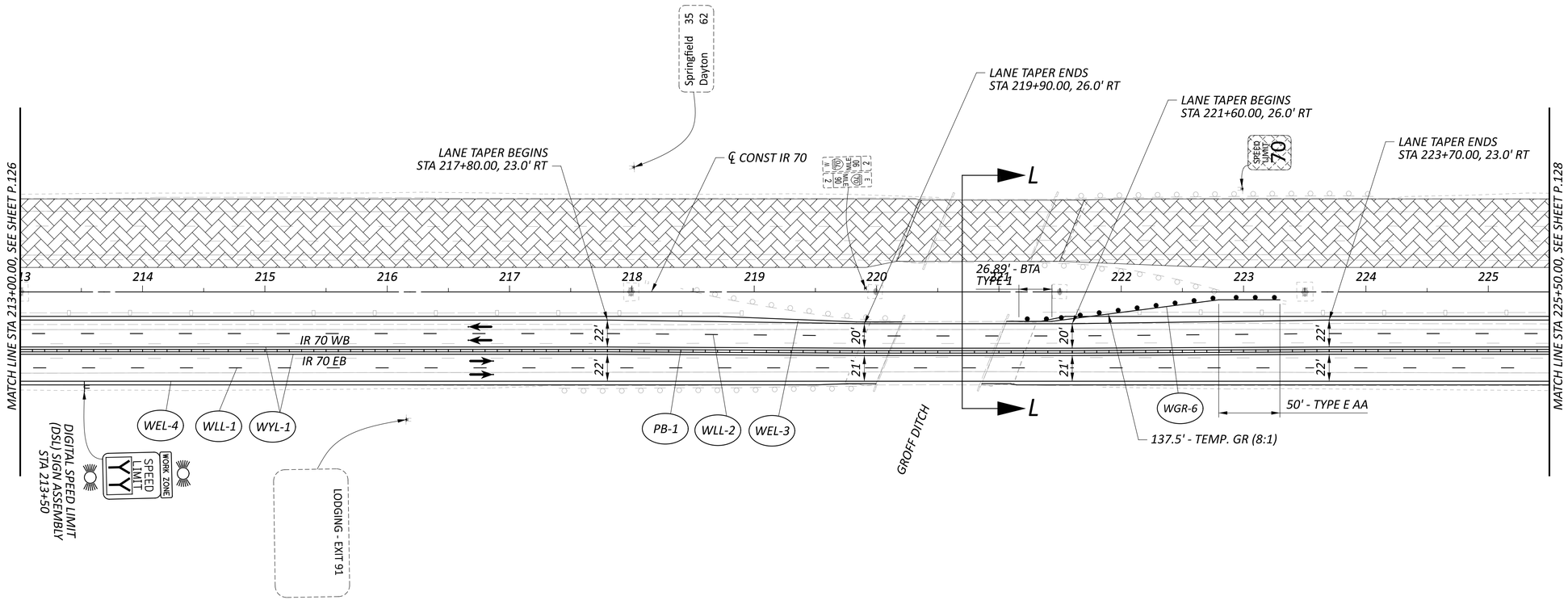
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



PHASE 2 STEP A SECTION L-L IR 70
OVER GROFF DITCH

LEGEND

CONSTRUCTION UNDER THIS PHASE



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 213+00.00 TO STA 225+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.127 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 22 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:25 PM USER: AMerrill
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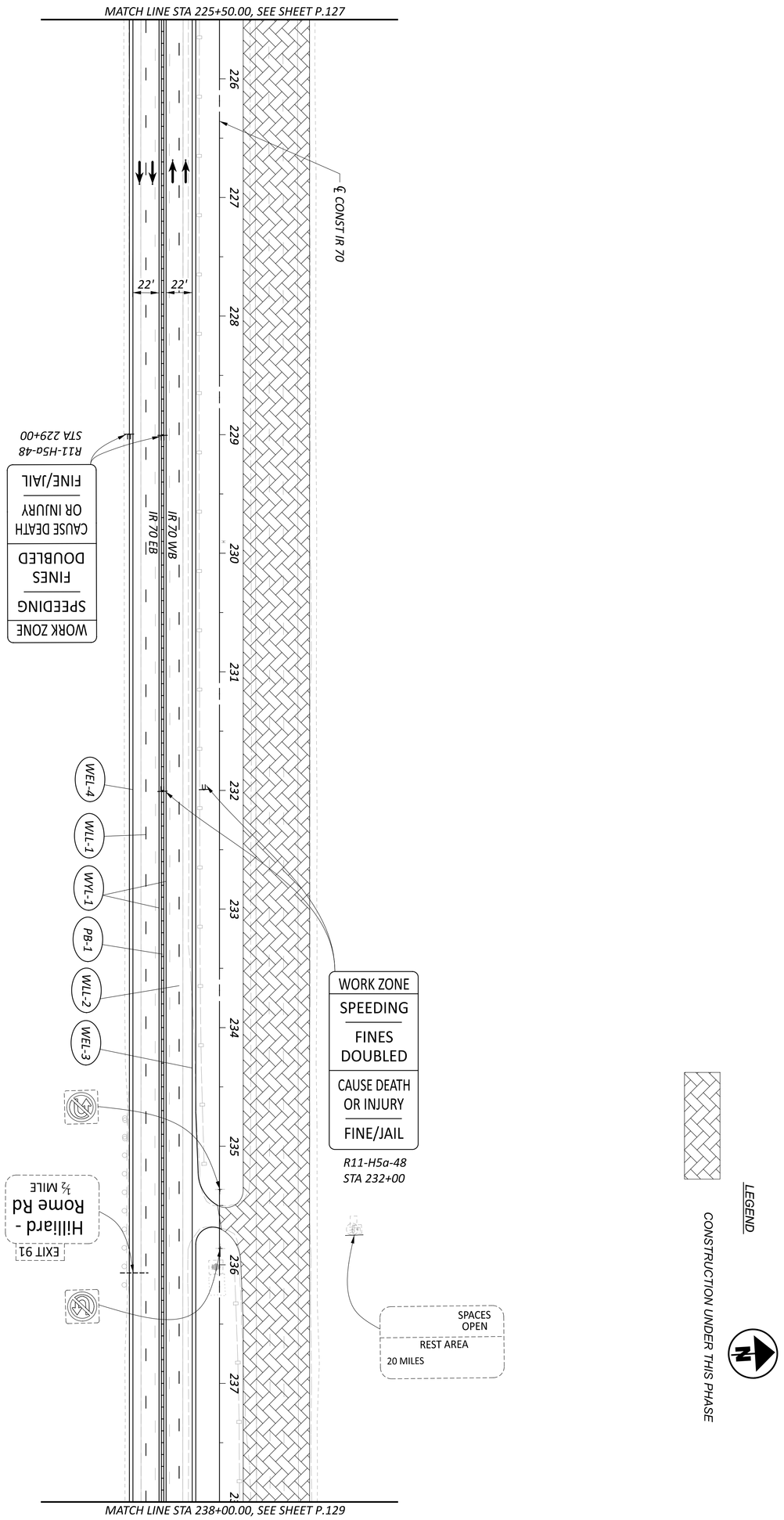

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 225+50.00 TO STA 238+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.128	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MOT PHASE 2 STEP A 24 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:26 PM USER: AMerrill
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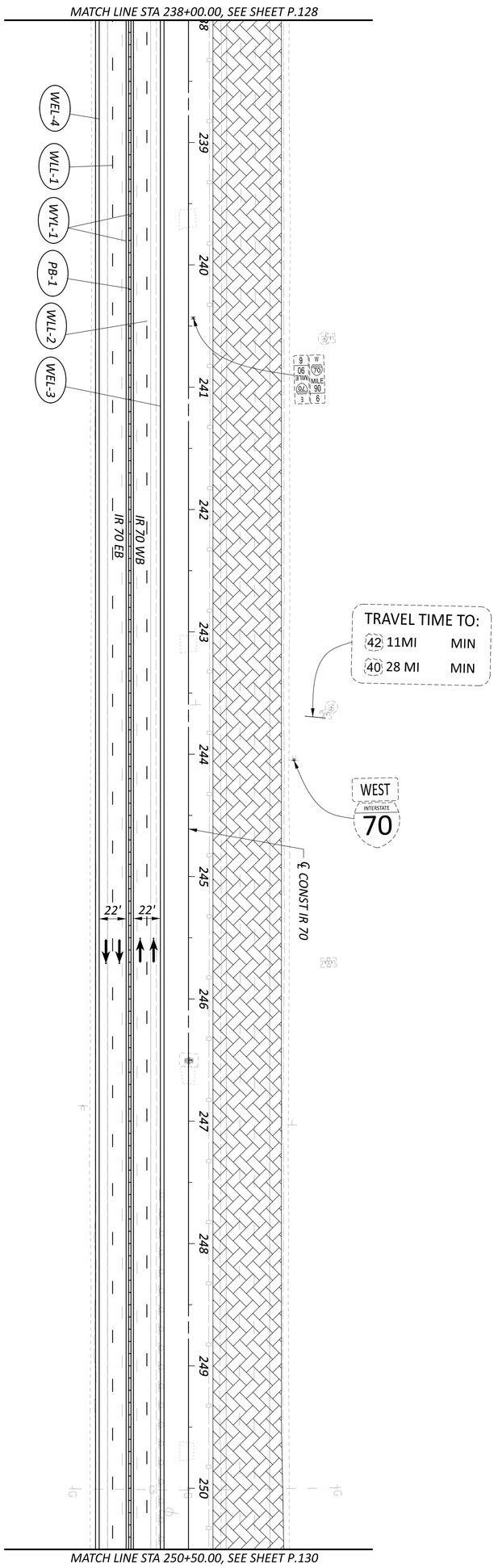


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

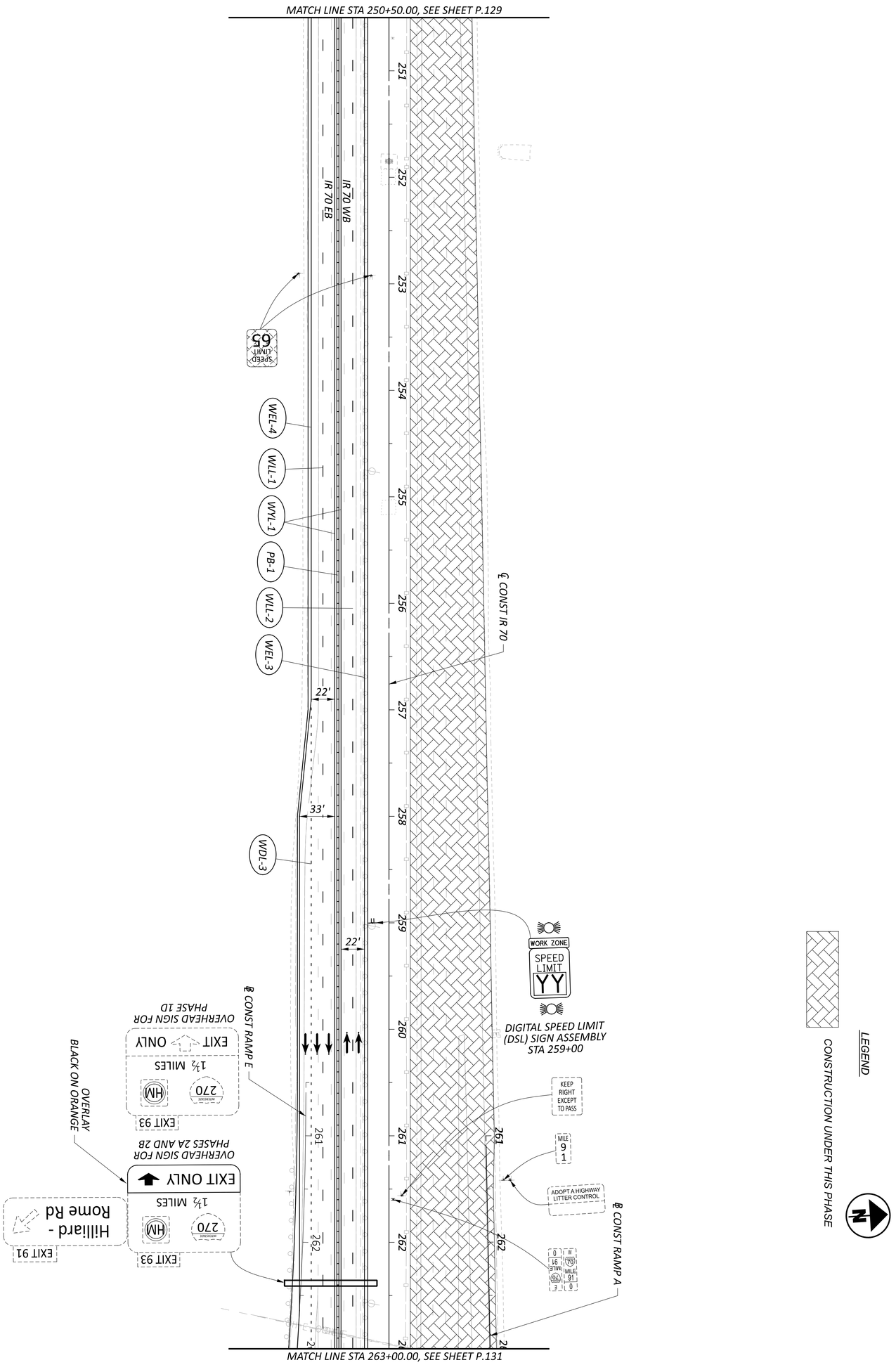
LEGEND

CONSTRUCTION UNDER THIS PHASE

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 238+00.00 TO STA 250+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	DESIGN AGENCY	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	AMERICAN STRUCTUREPOINT INC.	116949	P.129	577



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.130	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 250+50.00 TO STA 263+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: MOT PHASE 2 STEP A 26 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:27 PM USER: AMerrill
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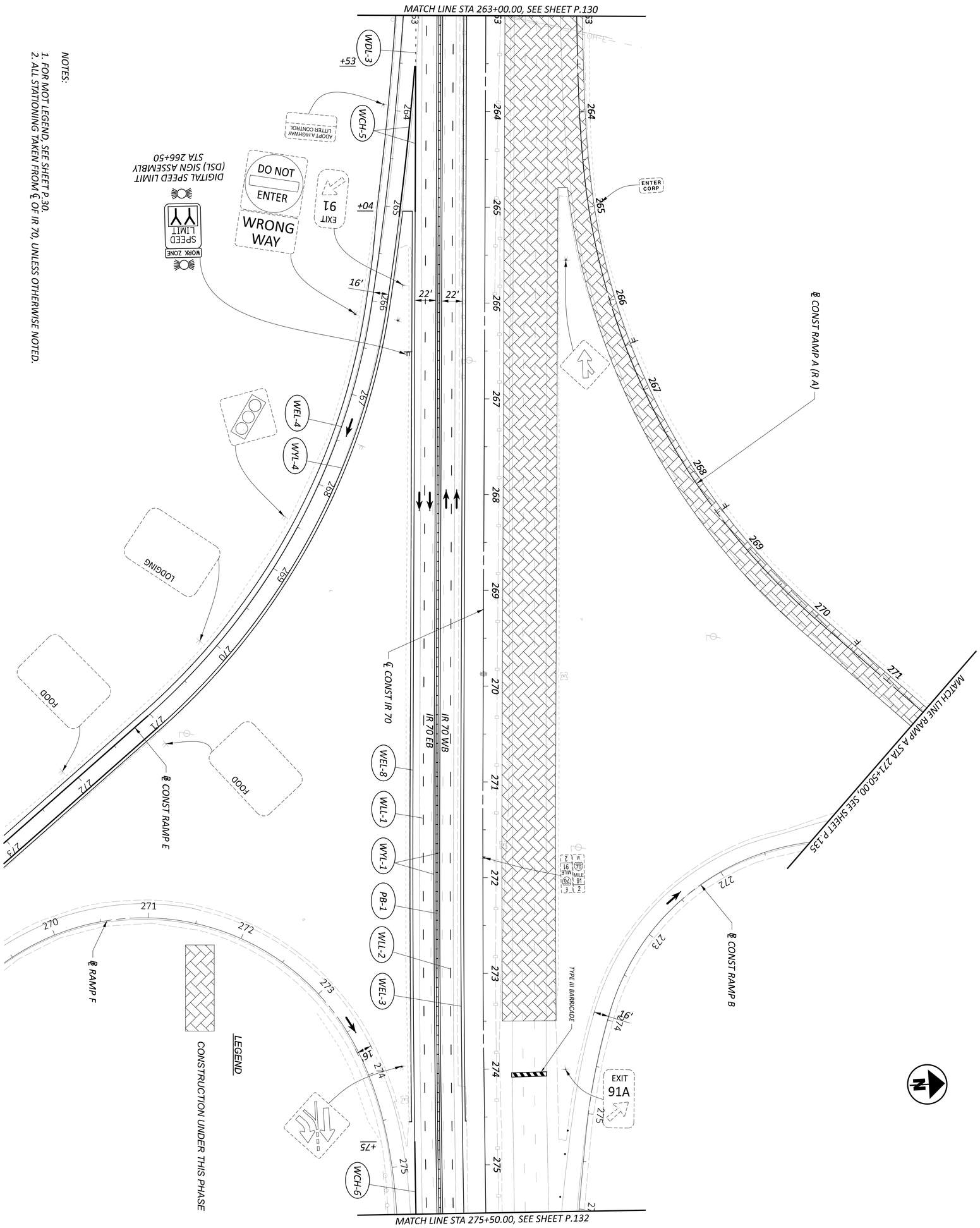

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.131	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 263+00.00 TO STA 275+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: MOT PHASE 2 STEP A 27 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:28 PM USER: AMerrill
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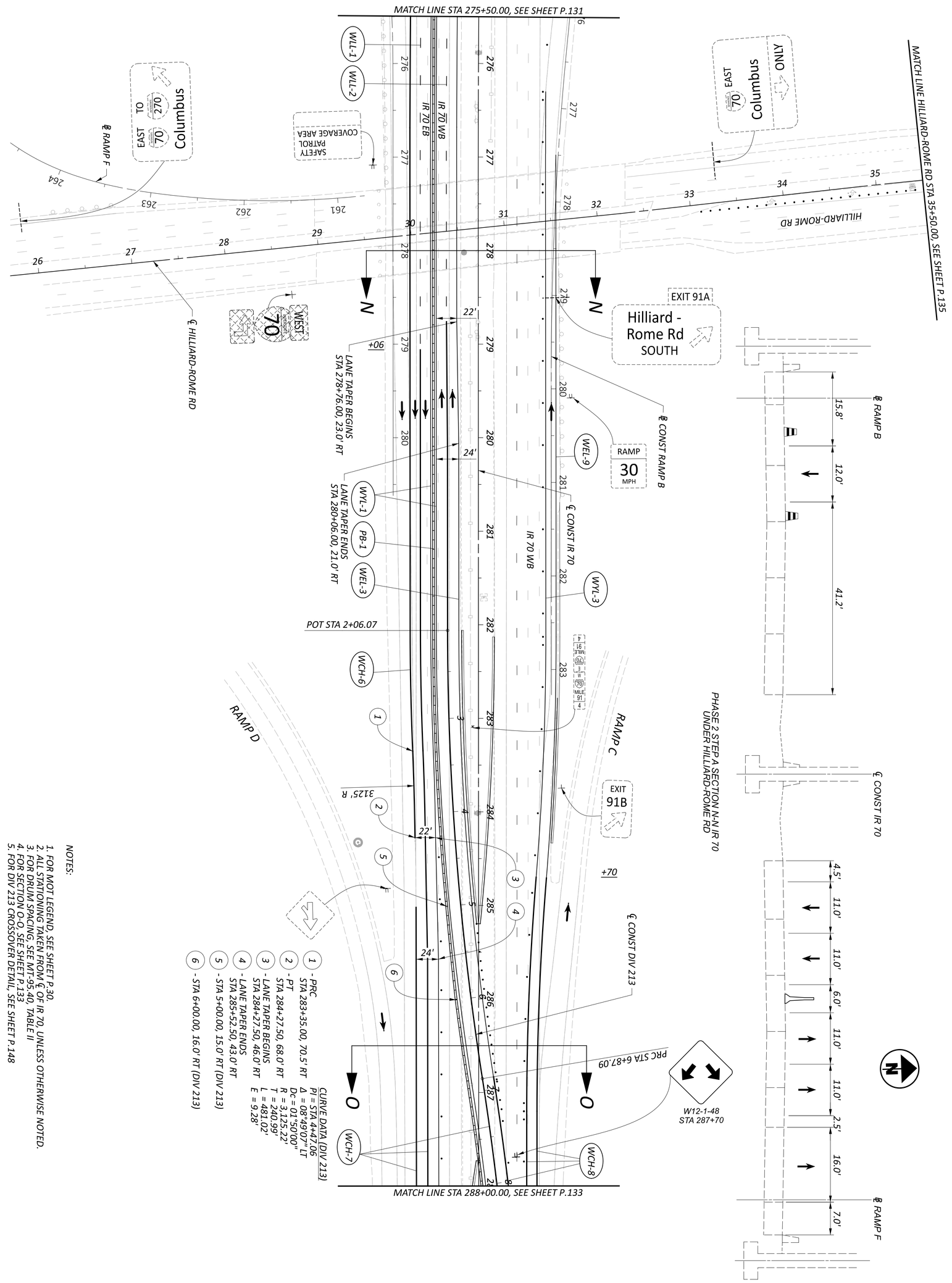


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR SECTION O-O, SEE SHEET P.133
5. FOR DIV 213 CROSSOVER DETAIL, SEE SHEET P.148

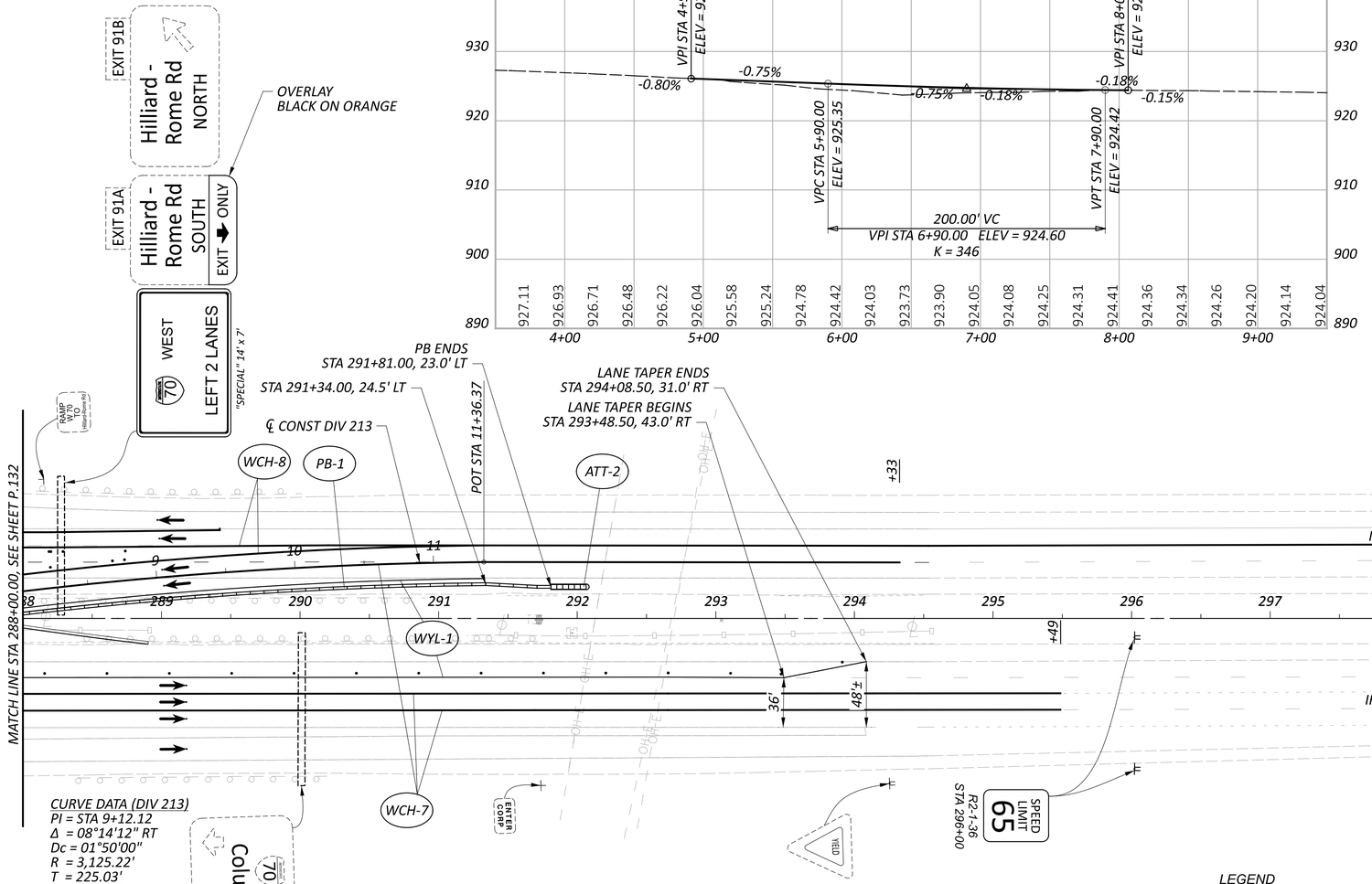
DESIGNER DMS	REVIEWER AJL 08/23/24	PROJECT ID 116949	SHEET P.132 TOTAL 577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 275+50.00 TO STA 288+00.00

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 288+00.00 TO STA 300+50.00



PHASE 2 STEP A SECTION O-O IR 70
STA 286+50

LEGEND

TEMPORARY CONSTRUCTION UNDER PREVIOUS PHASE(S)

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 213 CROSSOVER DETAIL, SEE SHEET P.148

HORIZONTAL SCALE IN FEET
0 25 50 100

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.133 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 28 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:29 PM USER: AMerrill
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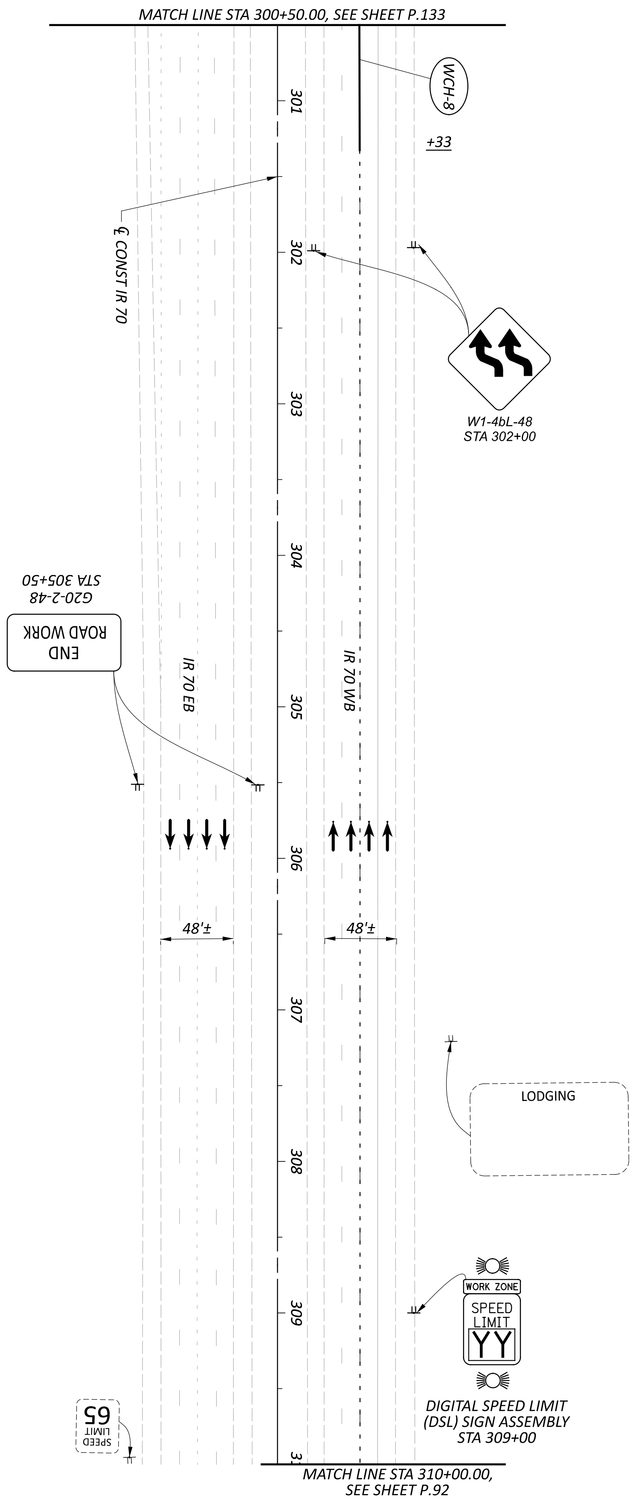
NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II



SHEET	TOTAL
P.134	577

PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

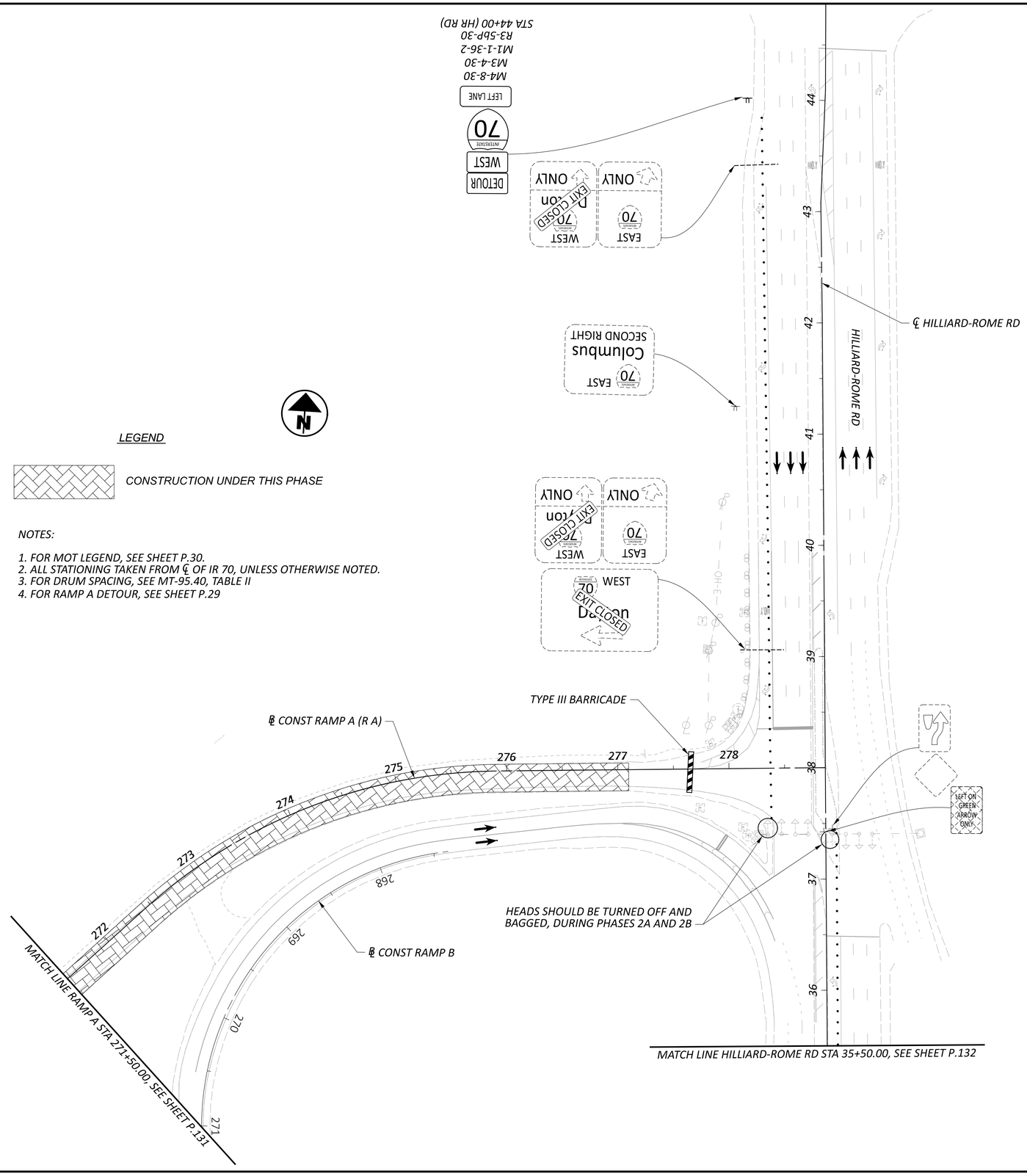
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
STA 300+50.00 TO STA 310+00.00

HORIZONTAL SCALE IN FEET

0 50

25 100



HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP A, B
RAMP A STA 271+50.00 TO STA 278+86.35

FRA-70-00.00

MODEL: MOT_I70 - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:31 PM USER: AMerrill
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.135
TOTAL	577

MODEL: MOT PHASE 2 STEP B 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:34 PM USER: AMerrill
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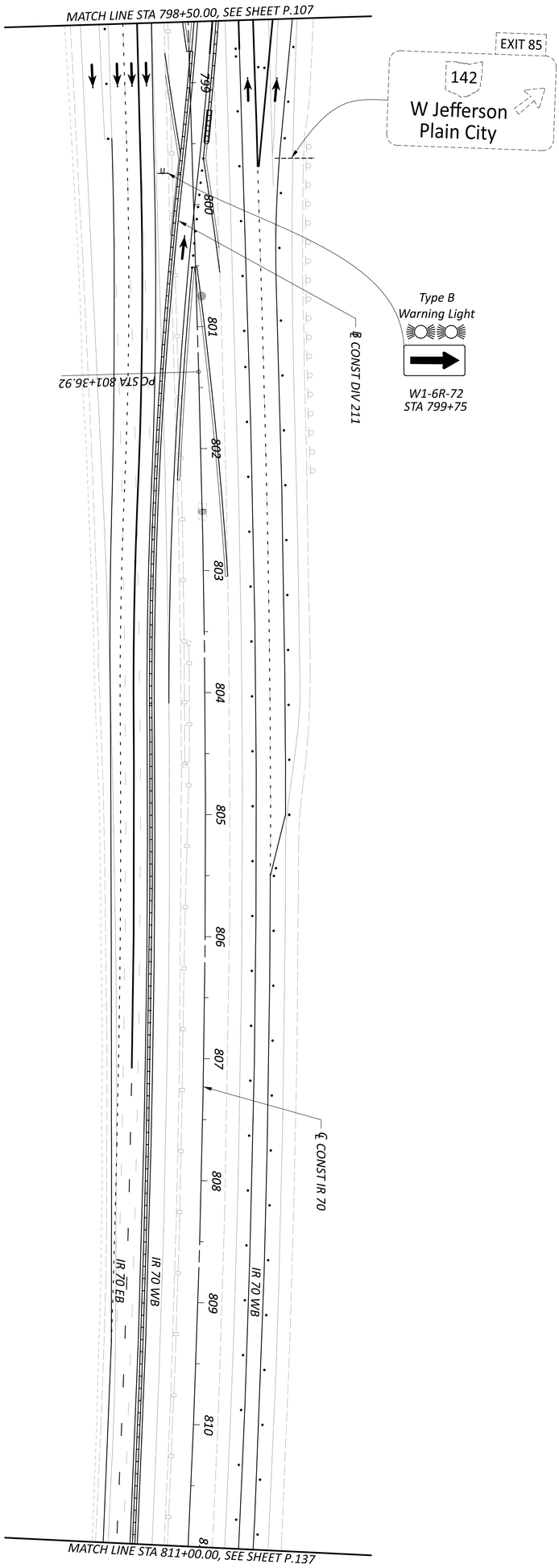


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

MAINTENANCE OF TRAFFIC PHASE 2 STEP B
STA 798+50.00 TO STA 811+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

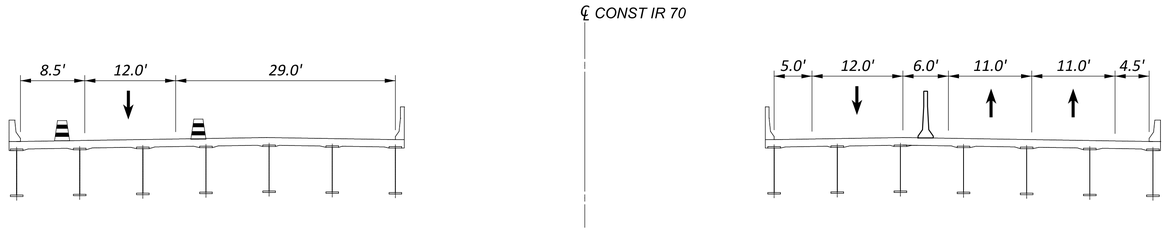
SHEET	TOTAL
P.136	577

PROJECT ID: 116949

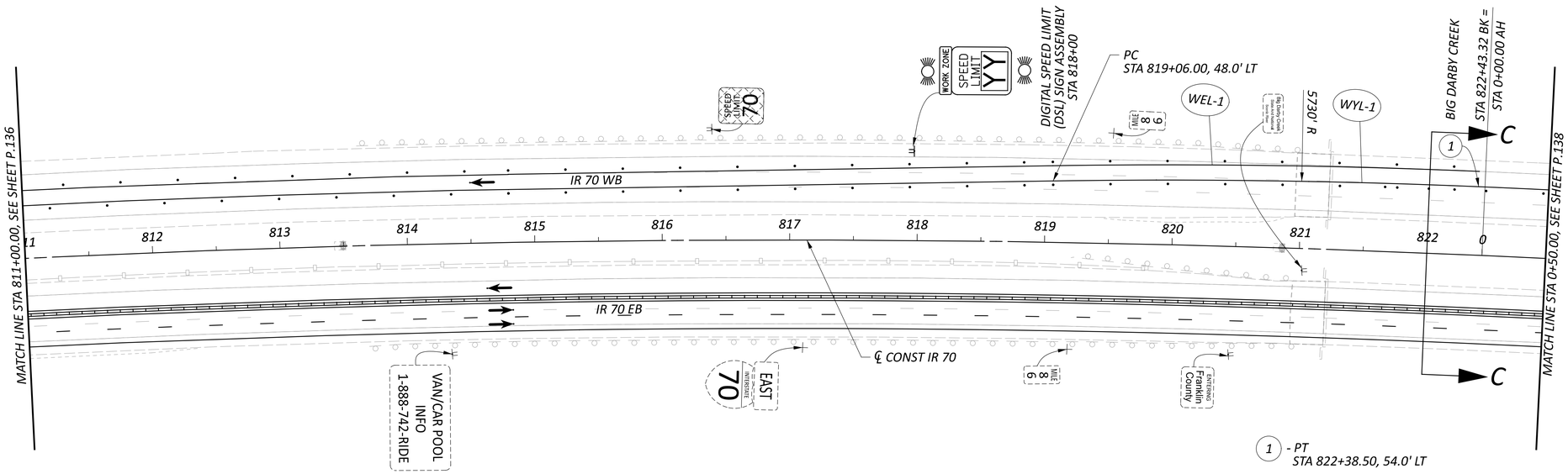
REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.



PHASE 2 STEP B SECTION C-C IR 70
OVER BIG DARBY CREEK



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP B
STA 811+00.00 TO STA 0+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.137 TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP B 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:35 PM USER: AMerrill
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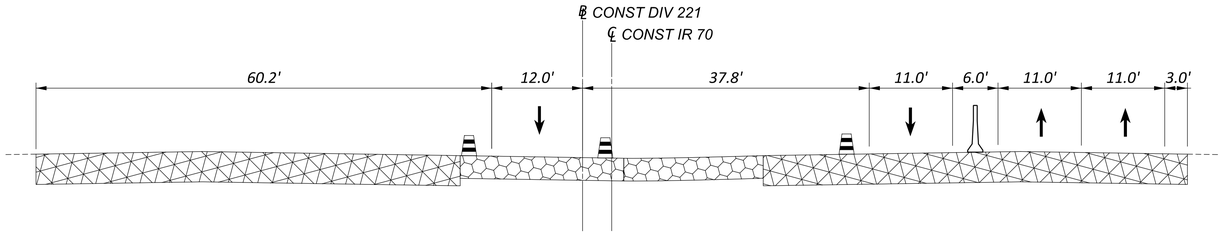
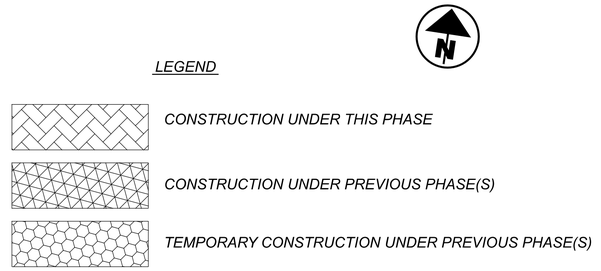
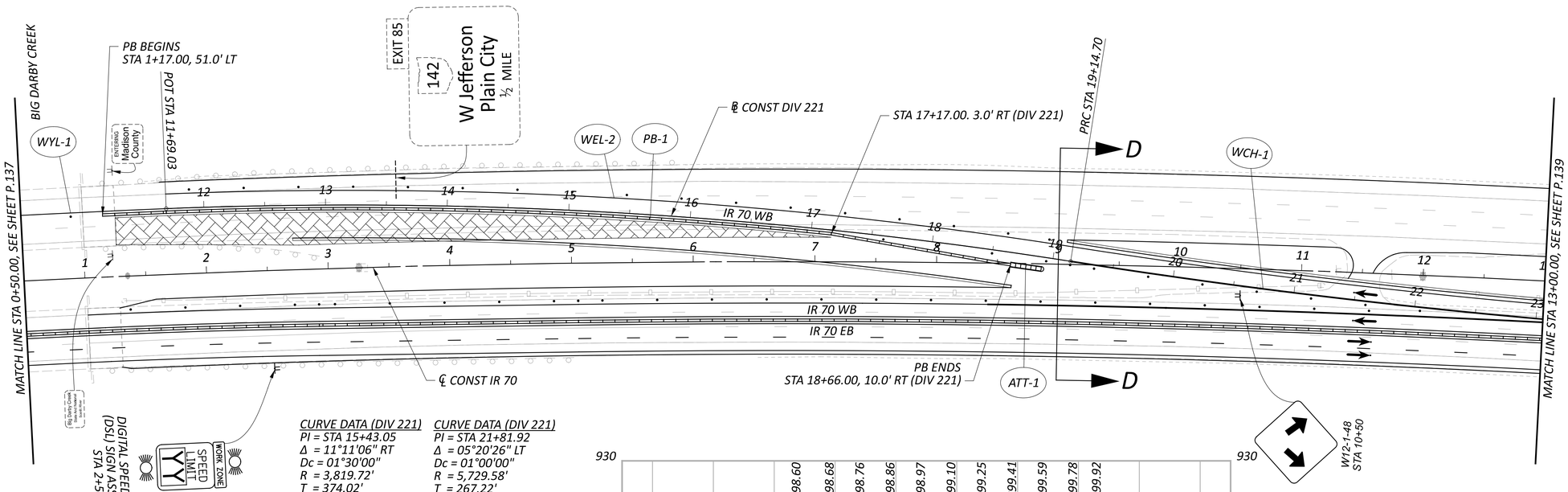


PHASE 2 STEP B SECTION D-D IR 70
STA 9+00





CURVE DATA (DIV 221)
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Δ = 11°11'06" RT
Dc = 01°30'00"
R = 3,819.72'
T = 374.02'
L = 745.67'
E = 18.27'

CURVE DATA (DIV 221)
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Dc = 01°00'00"
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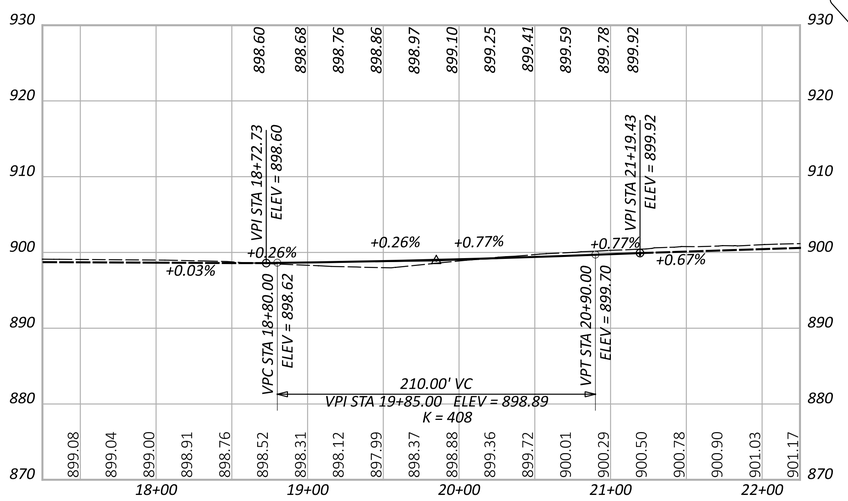
T = 267.22'
L = 534.06'
E = 6.23'



NOTES:

1. *FOR MOT LEGEND, SEE SHEET P.30.*
2. *ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.*
3. *FOR DRUM SPACING, SEE MT-95.40, TABLE II*
4. *FOR DIV 221 CROSSOVER DETAIL, SEE SHEET P.149*

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP B
STA 0+50.00 TO STA 13+00.00

FRA-70-00.00

MODEL: MOT PHASE 2 STEP B 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:36 PM USER: AMerrill
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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.138 TOTAL 577

MODEL: MOT PHASE 2 STEP B 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:37 PM USER: AMerrill
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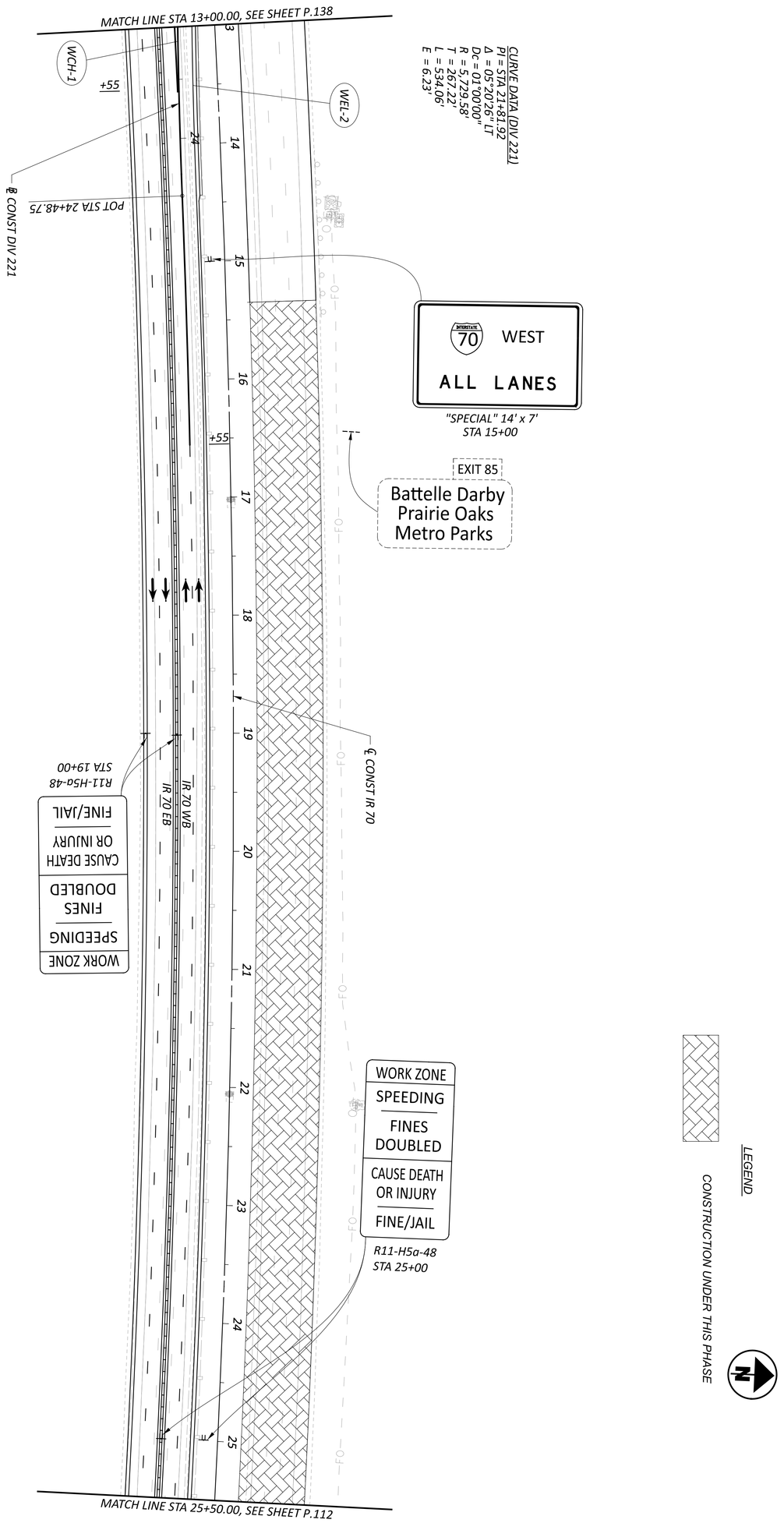


NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. FOR DIV 221 CROSSOVER DETAIL, SEE SHEET P.149

LEGEND

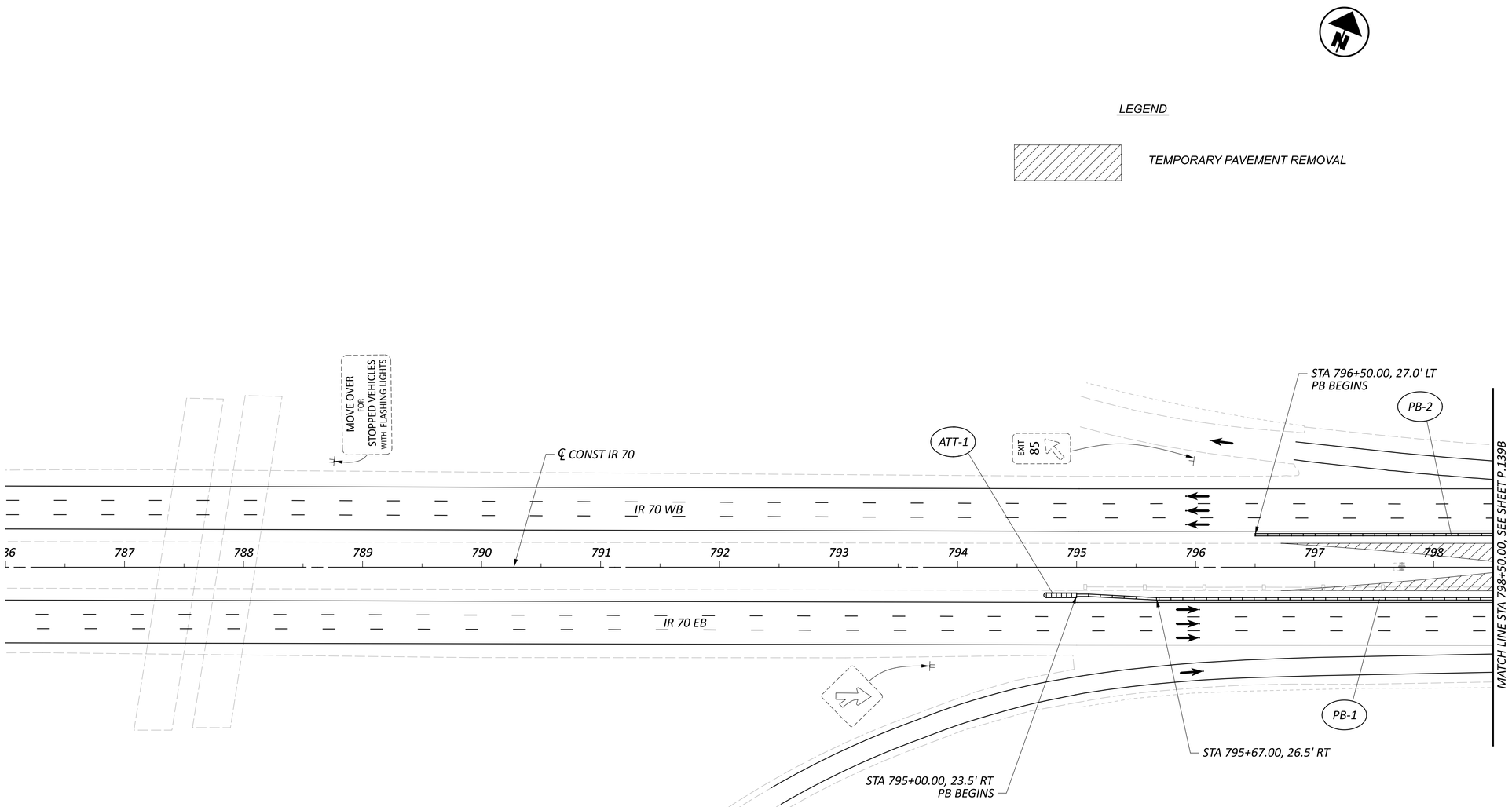
CONSTRUCTION UNDER THIS PHASE

N

MAINTENANCE OF TRAFFIC PHASE 2 STEP B
STA 13+00.00 TO STA 25+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	DESIGN AGENCY	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	AMERICAN STRUCTUREPOINT INC.	116949	P. 139	577



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING PHASE 2 STEP C IR 70 WESTBOUND AND IR 70 EASTBOUND MARKINGS WILL BE PLACED TEMPORARILY ON PROPOSED SURFACE (FOR QUANTITIES, SEE MOT SUBSUMMARY FOR PHASE 2 STEP C)

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP C
STA 786+00.00 TO STA 798+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.139A TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/28/2025 TIME: 8:45:02 AM USER: apilipchuk
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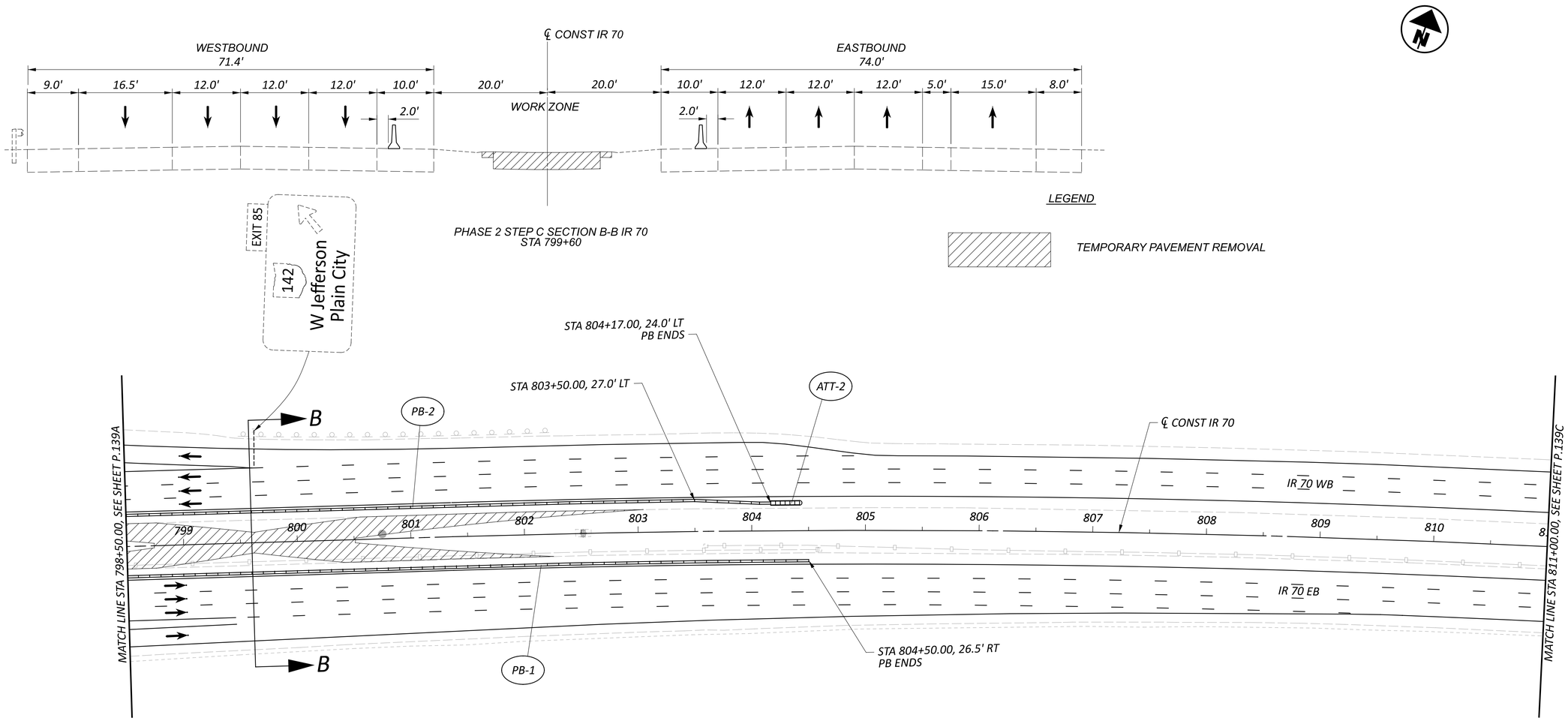

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING PHASE 2 STEP C IR 70 WESTBOUND AND IR 70 EASTBOUND MARKINGS WILL BE PLACED TEMPORARILY ON PROPOSED SURFACE (FOR QUANTITIES, SEE MOT SUBSUMMARY FOR PHASE 2 STEP C)

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP C
STA 798+50.00 TO STA 811+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.139B TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 3 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/28/2025 TIME: 8:49:08 AM USER: apilipchuk
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MODEL: MOT_I070 - MOT PHASE 1 STEP D 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/28/2025 TIME: 8:37:08 AM USER: apilipchuk
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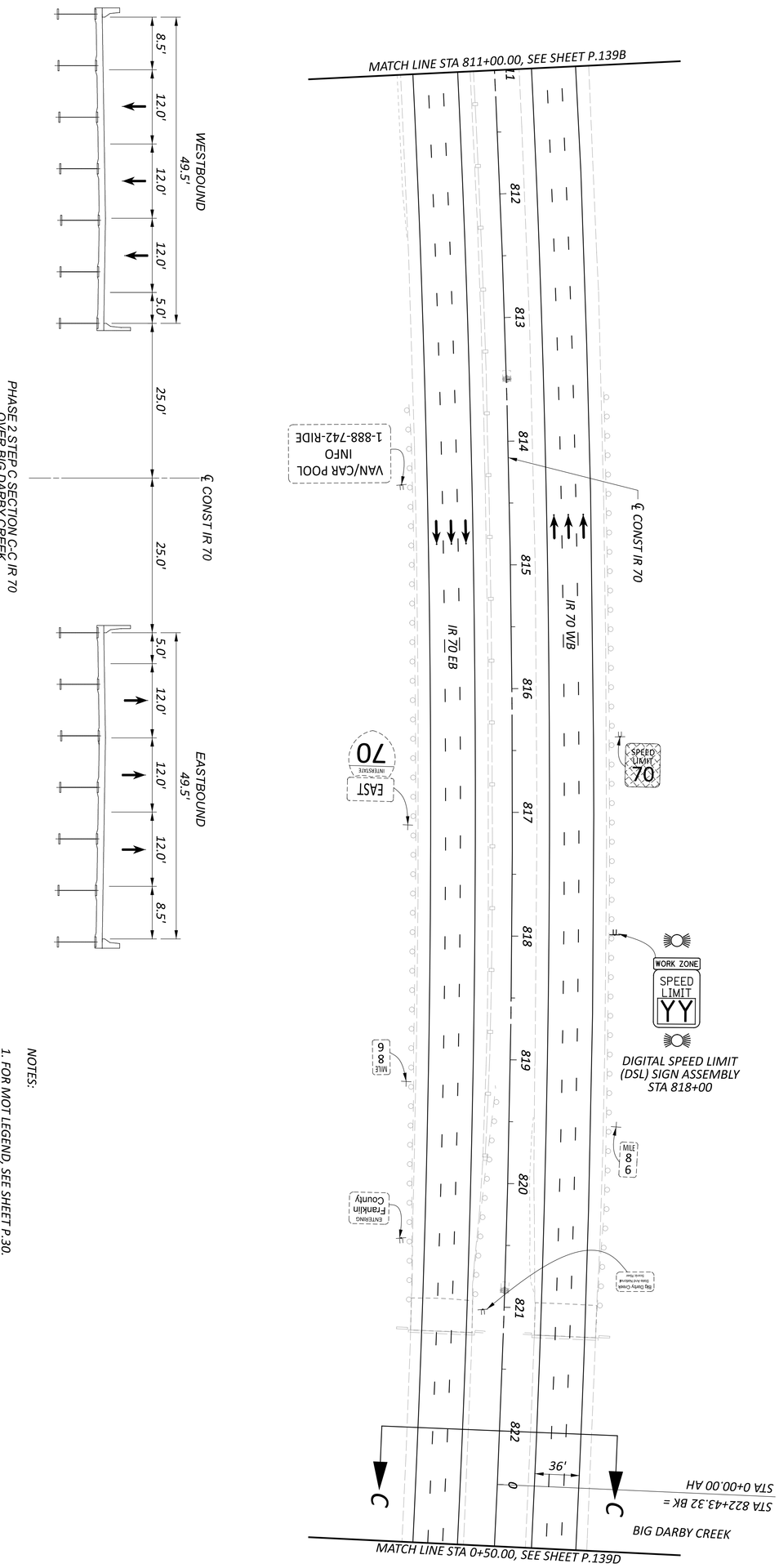


PHASE 2 STEP C SECTION C-C IR 70
OVER BIG DARBY CREEK

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING PHASE 2 STEP C IR 70 WESTBOUND AND IR 70 EASTBOUND MARKINGS WILL BE PLACED TEMPORARILY ON PROPOSED SURFACE (FOR QUANTITIES, SEE MOT SUBSUMMARY FOR PHASE 2 STEP C)

MAINTENANCE OF TRAFFIC PHASE 2 STEP C
STA 811+00.00 TO STA 0+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

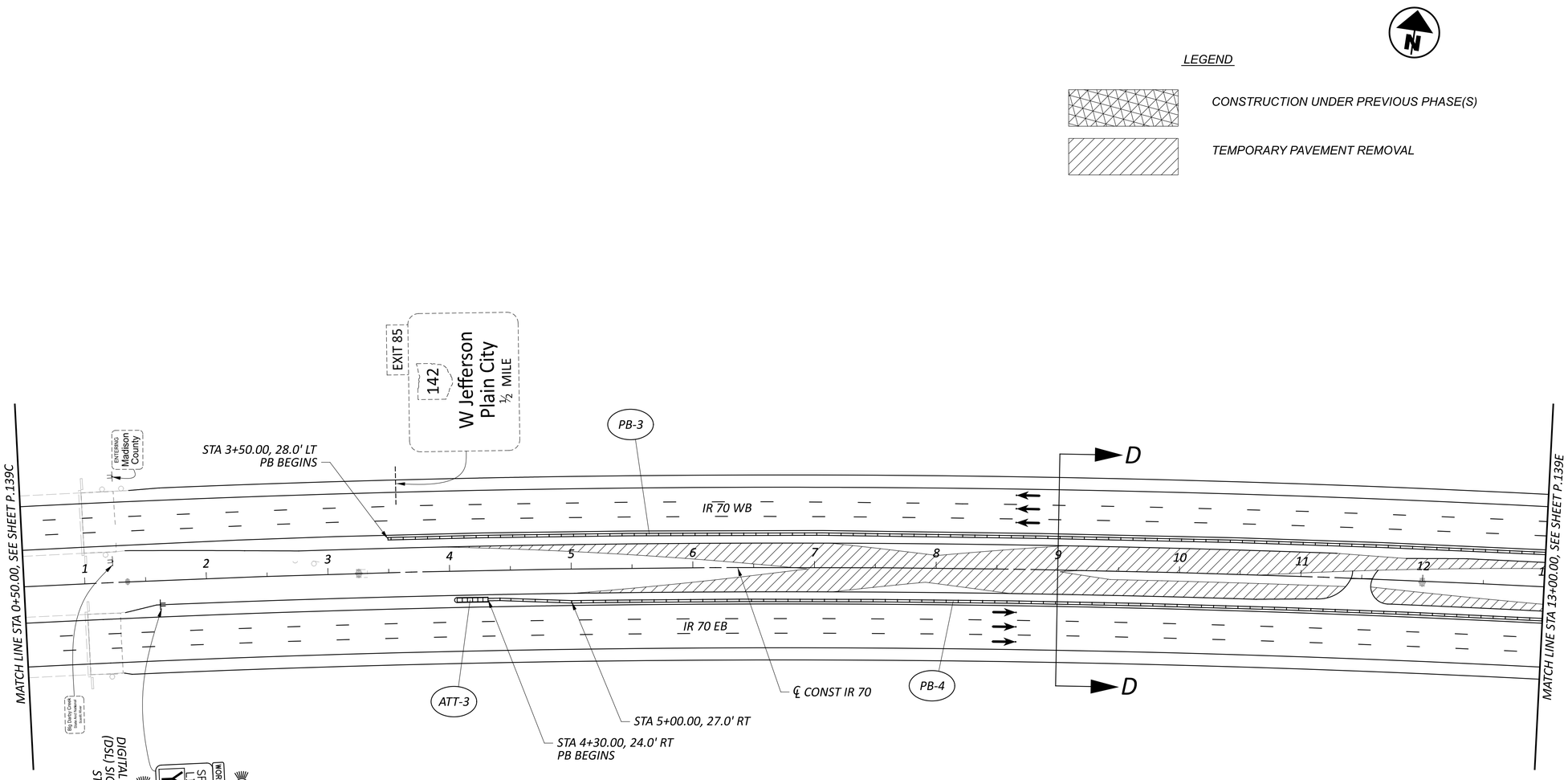
SHEET	TOTAL
P.139C	577

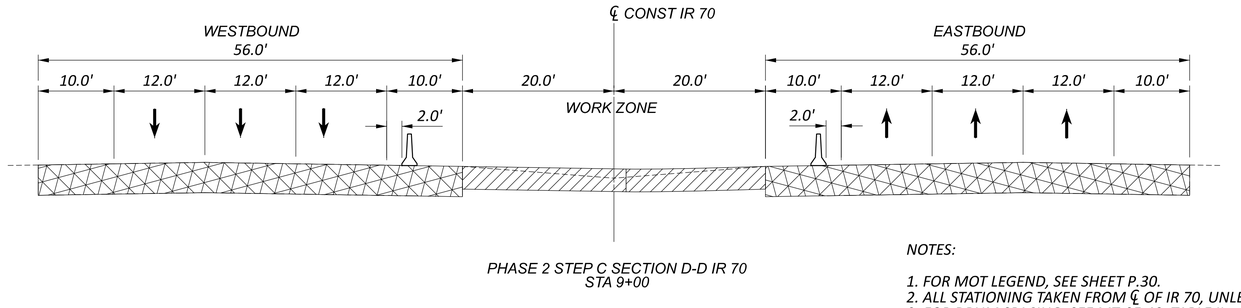
PROJECT ID: 116949

REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.





PHASE 2 STEP C SECTION D-D IR 70
STA 9+00

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING PHASE 2 STEP C IR 70 WESTBOUND AND IR 70 EASTBOUND MARKINGS WILL BE PLACED TEMPORARILY ON PROPOSED SURFACE (FOR QUANTITIES, SEE MOT SUBSUMMARY FOR PHASE 2 STEP C)

HORIZONTAL SCALE IN FEET
0 25 50 100

MAINTENANCE OF TRAFFIC PHASE 2 STEP C
STA 0+50.00 TO STA 13+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.139D | TOTAL 577

FRA-70-00.00

MODEL: MOT_I070 - MOT PHASE 1 STEP D 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/28/2025 TIME: 8:34:00 AM USER: apilipchuk
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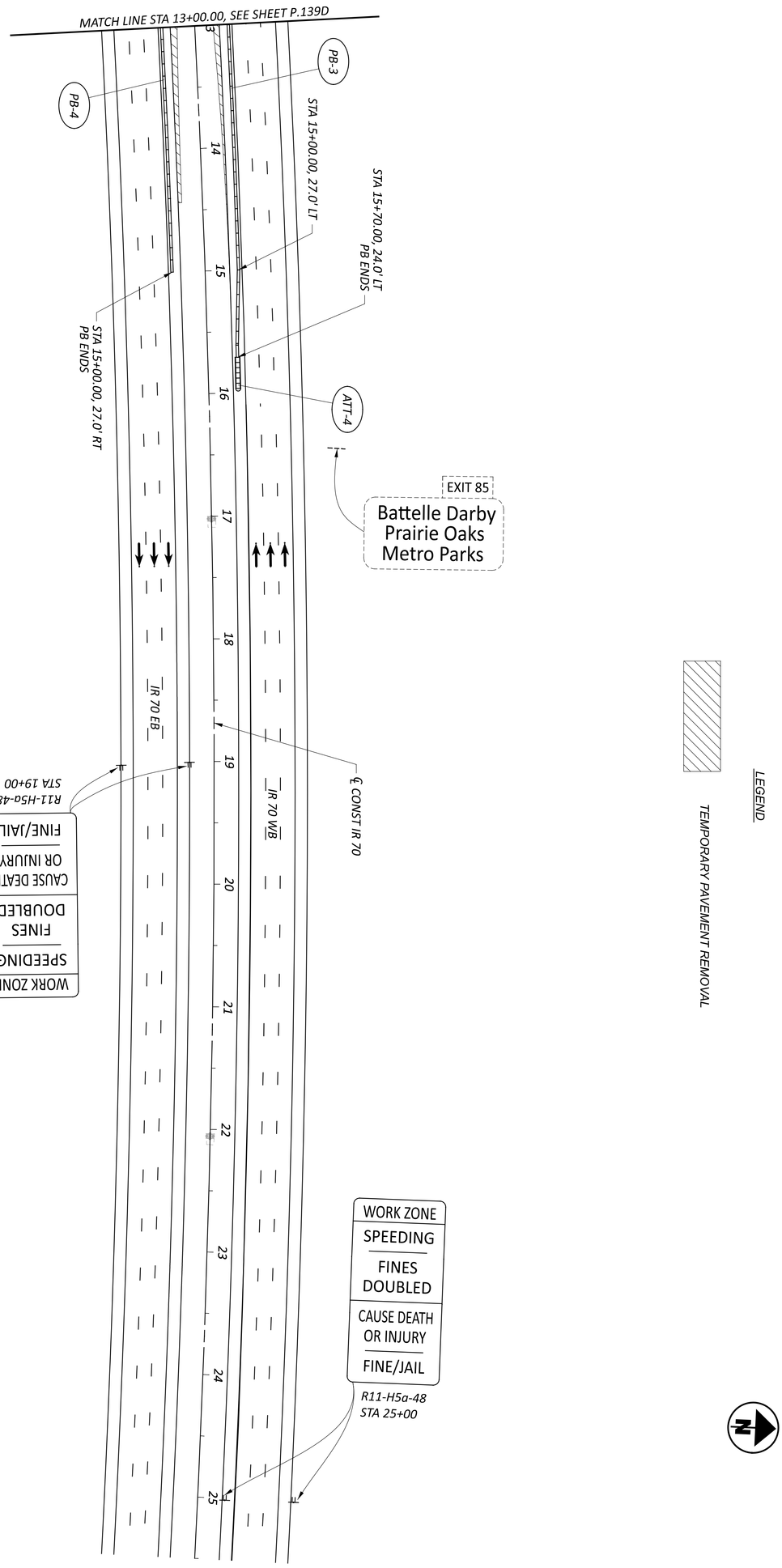


LEGEND

TEMPORARY PAVEMENT REMOVAL

NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING PHASE 2 STEP C IR 70 WESTBOUND AND IR 70 EASTBOUND MARKINGS WILL BE PLACED TEMPORARILY ON PROPOSED SURFACE (FOR QUANTITIES, SEE MOT SUBSUMMARY FOR PHASE 2 STEP C)

MAINTENANCE OF TRAFFIC PHASE 2 STEP C
STA 13+00.00 TO STA 25+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.139E	577

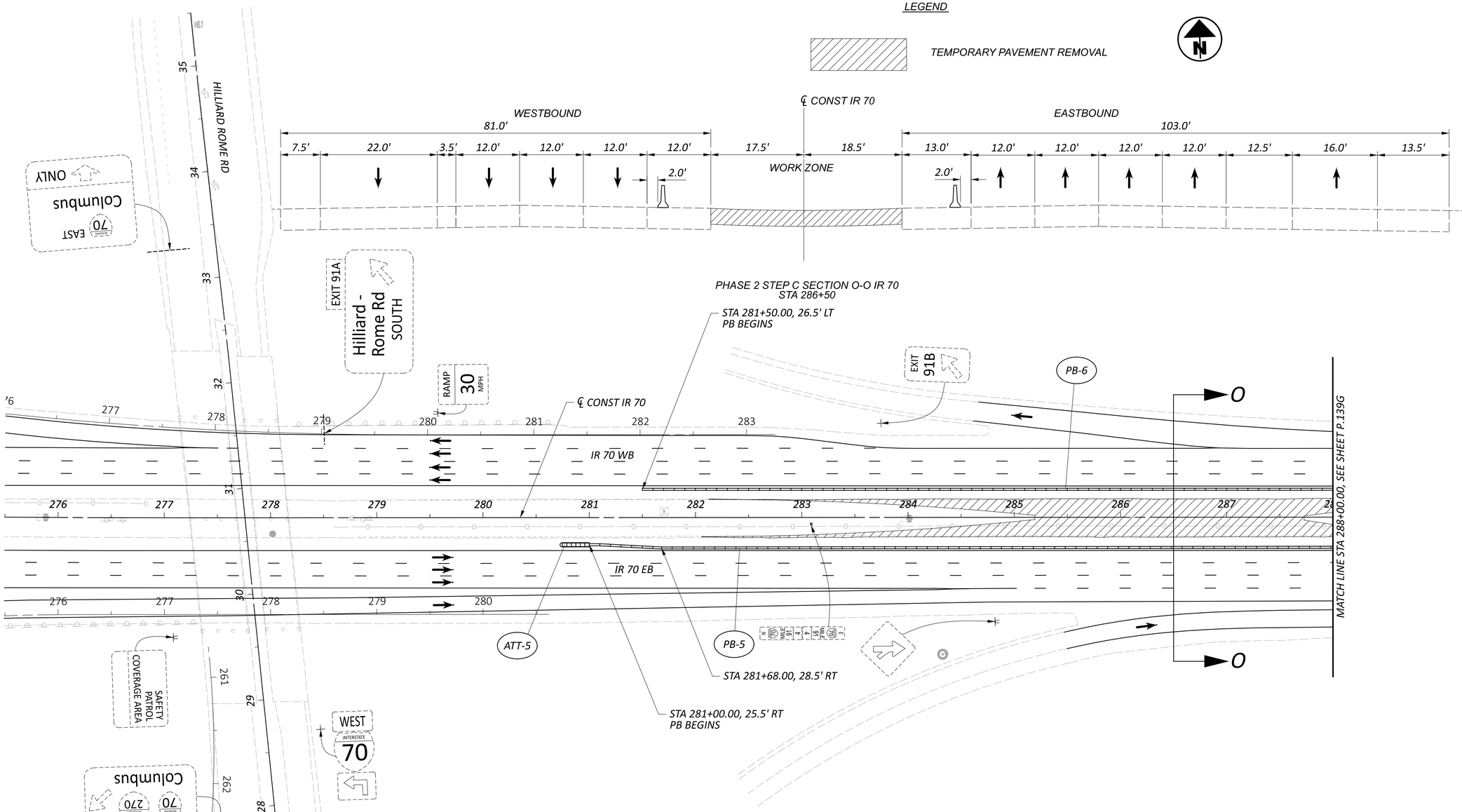
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 2 STEP C
STA 275+50.00 TO STA 288+00.00

HORIZONTAL SCALE IN FEET
0 25 50 100

LEGEND

TEMPORARY PAVEMENT REMOVAL



NOTES:

1. FOR MOT LEGEND, SEE SHEET P.30.
2. ALL STATIONING TAKEN FROM ℄ OF IR 70, UNLESS OTHERWISE NOTED.
3. FOR DRUM SPACING, SEE MT-95.40, TABLE II
4. DURING PHASE 2 STEP C IR 70 WESTBOUND AND IR 70 EASTBOUND MARKINGS WILL BE PLACED TEMPORARILY ON PROPOSED SURFACE (FOR QUANTITIES, SEE MOT SUBSUMMARY FOR PHASE 2 STEP C)

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.139F TOTAL 577

FRA-70-00.00

MODEL: MOT PHASE 2 STEP A 27 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/28/2025 TIME: 9:04:04 AM USER: apillipchuk
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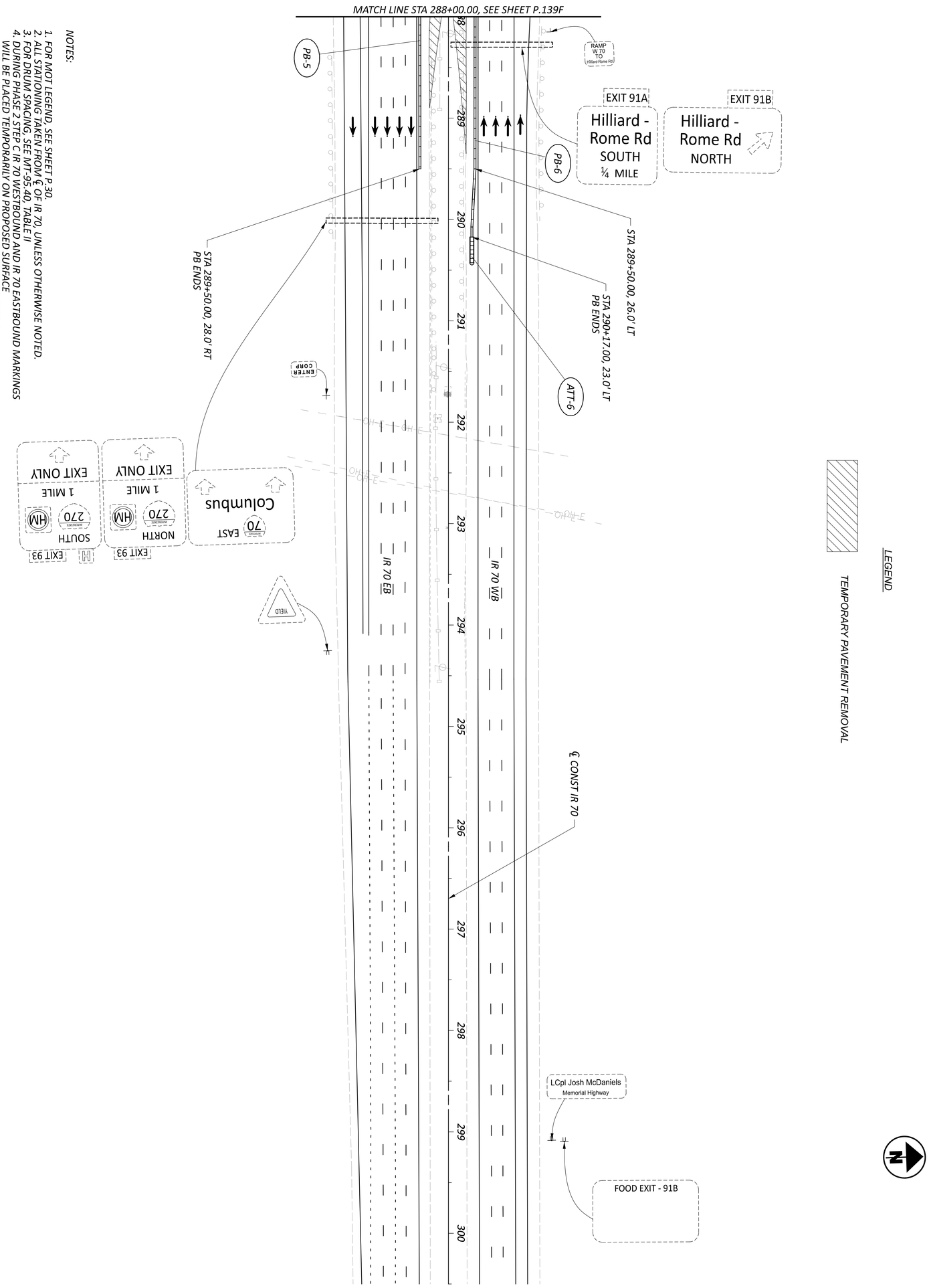


SHEET	TOTAL
P.139G	577

PROJECT ID: 116949

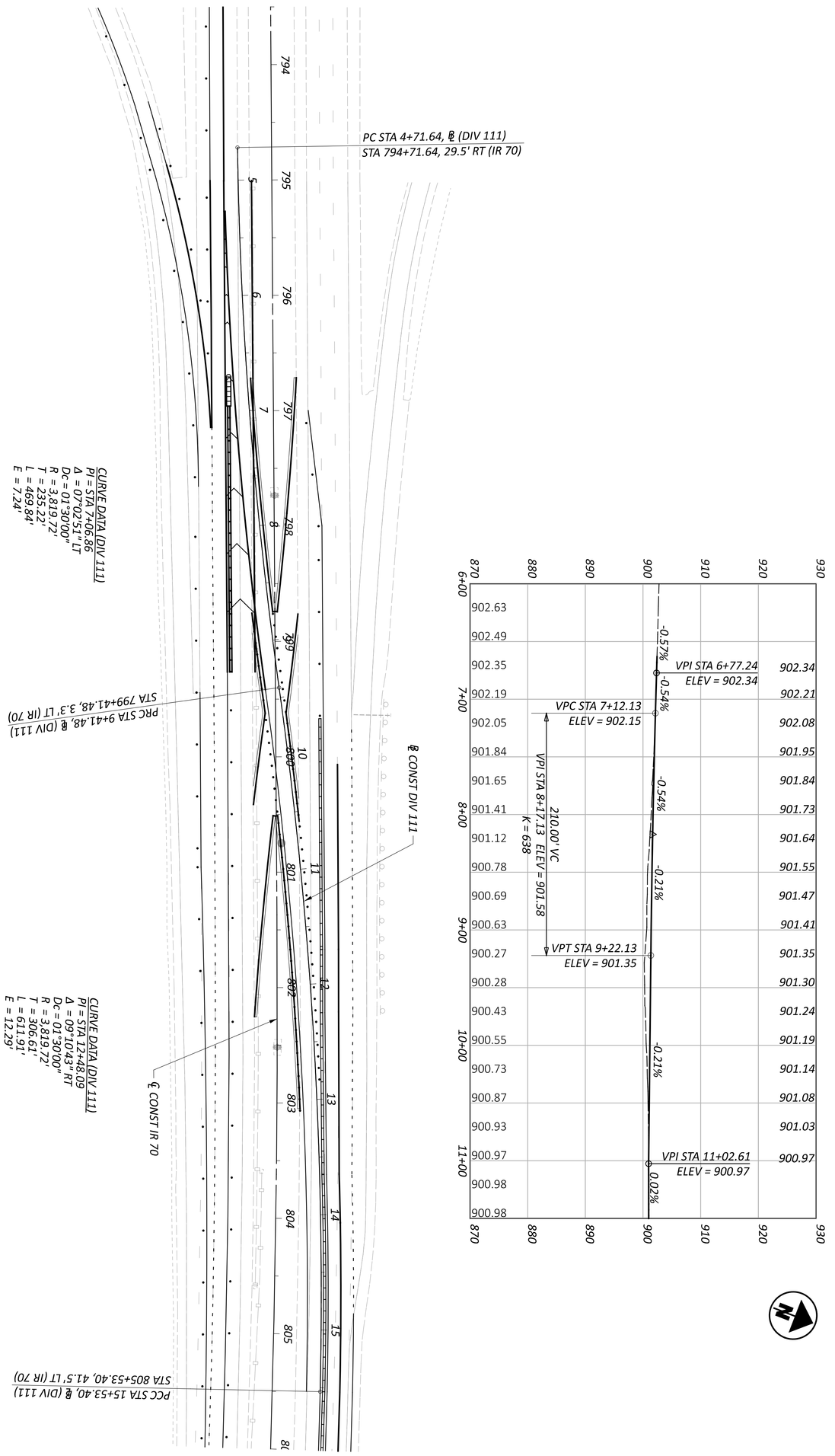
REVIEWER: AJL 08/23/24

DESIGNER: DMS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MAINTENANCE OF TRAFFIC PHASE 2 STEP C
STA 288+00.00 TO STA 300+50.00

HORIZONTAL SCALE IN FEET
0 50
25 100

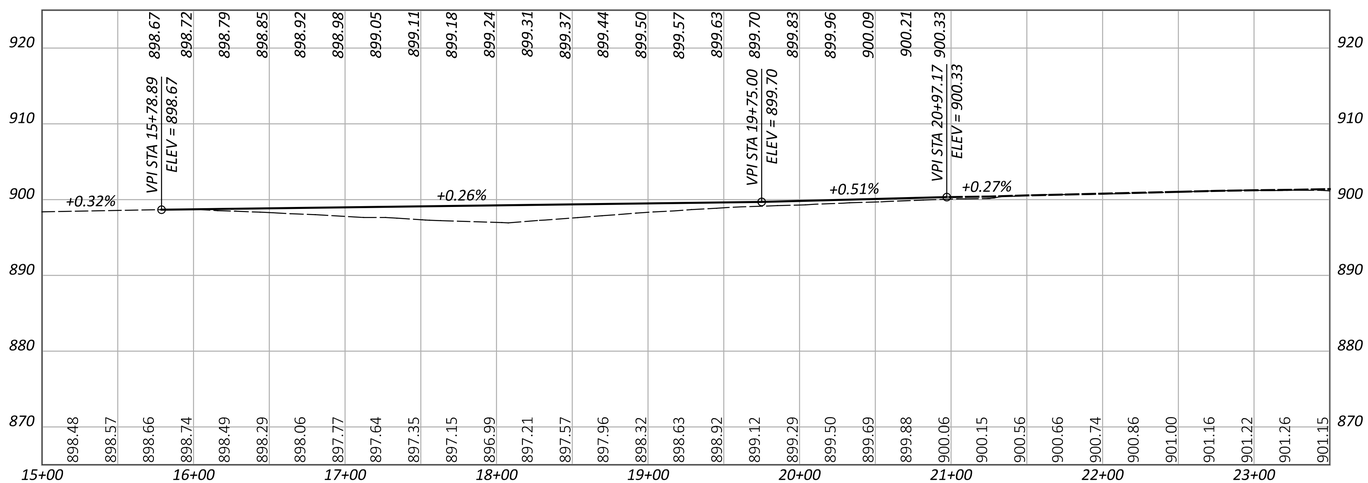


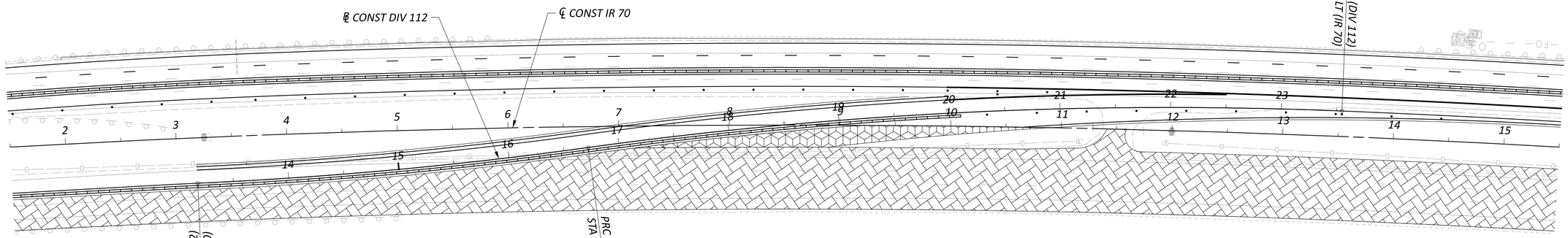
DESIGNER DMS	REVIEWER AJL 08/23/24	PROJECT ID 116949	SHEET P.140	TOTAL 577	

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

CROSSOVER DETAIL SHEET
DIV 111

HORIZONTAL SCALE IN FEET
0 25 50 100





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Dc = 01°30'00"
R = 3,819.72'
T = 177.28'
L = 354.30'
E = 4.11'

CURVE DATA
PI = STA 20+14.35
Δ = 10°14'21" RT
Dc = 01°30'00"
R = 3,819.72'
T = 342.22'
L = 682.62'
E = 15.3'

HORIZONTAL SCALE IN FEET
0 25 50 100

CROSSOVER DETAIL SHEET
DIV 112

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.141 TOTAL 577

FRA-70-00.00

MODEL: MK112_1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:40 PM USER: AMerrill
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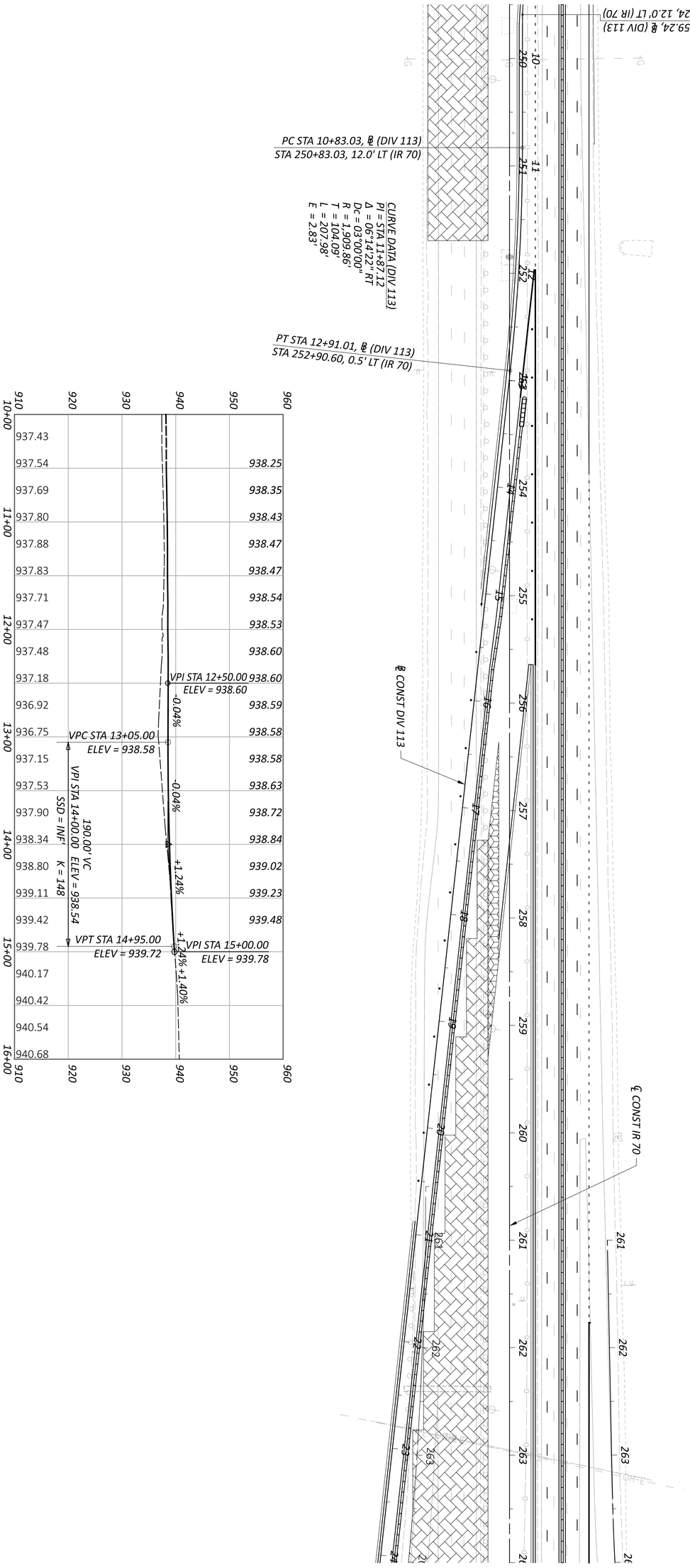
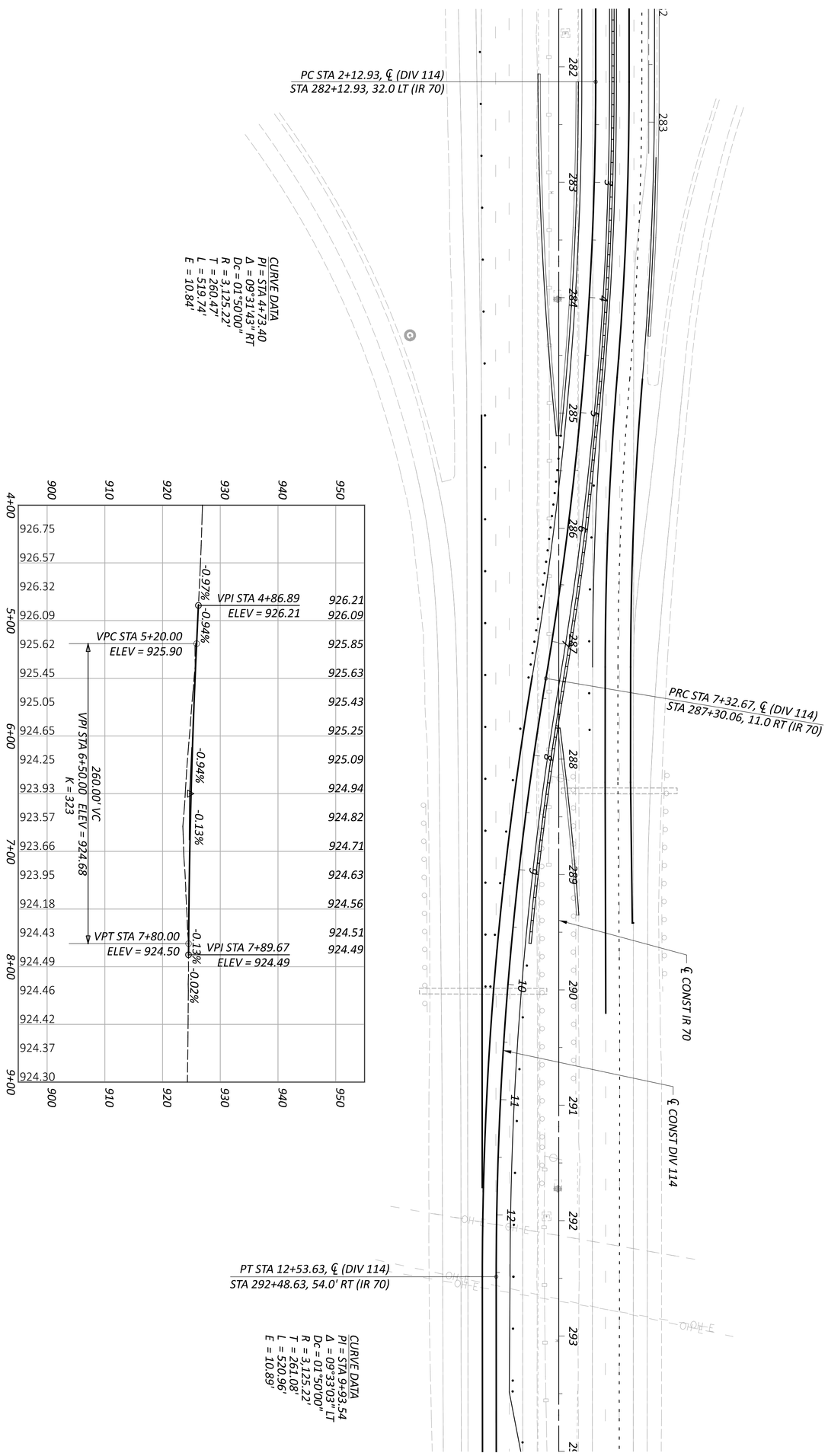


SHEET P.142 TOTAL 577	PROJECT ID 116949	REVIEWER AJL 08/23/24	DESIGNER DMS	AMERICAN STRUCTUREPOINT INC. DESIGN AGENCY	CROSSOVER DETAIL SHEET DIV 113

HORIZONTAL SCALE IN FEET
0 50
25 100



DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.143	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

CROSSOVER DETAIL SHEET
DIV 114

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: MK121_1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:44 PM USER: AMerrill
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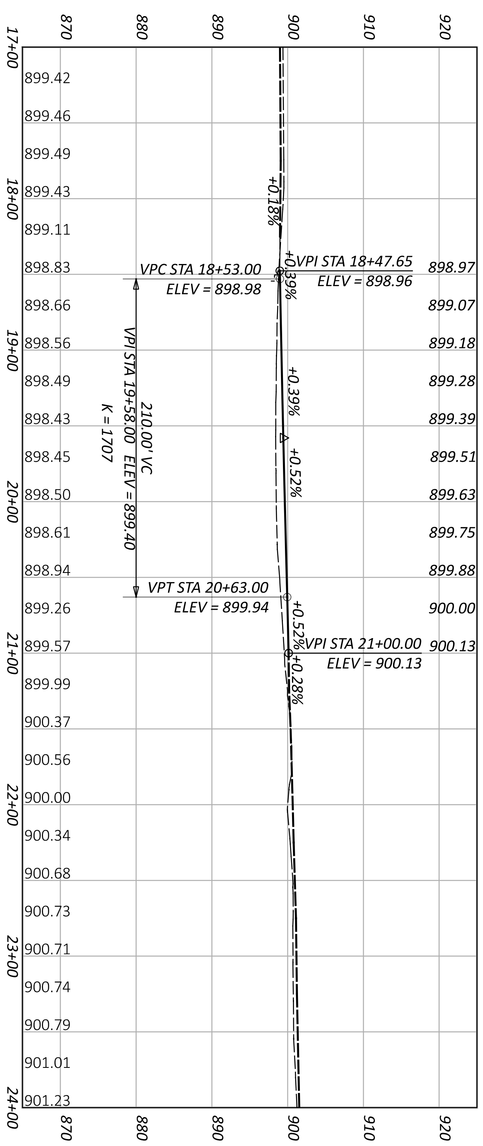

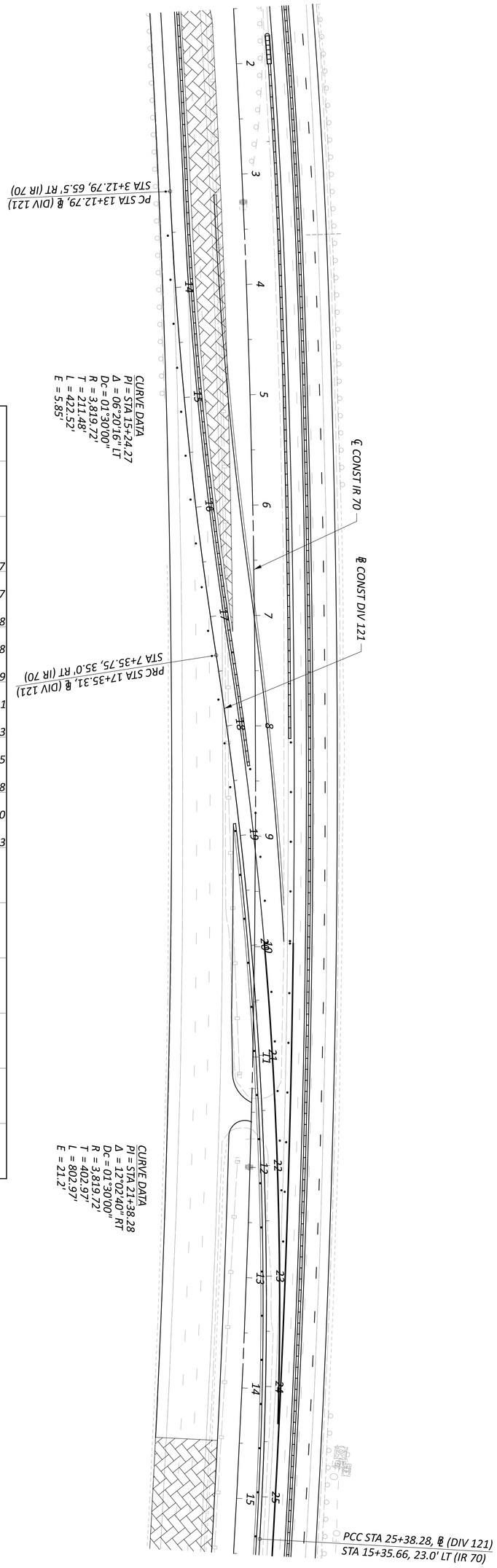

CROSSOVER DETAIL SHEET
DIV 121

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.144	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MK131_1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:46 PM USER: AMerrill
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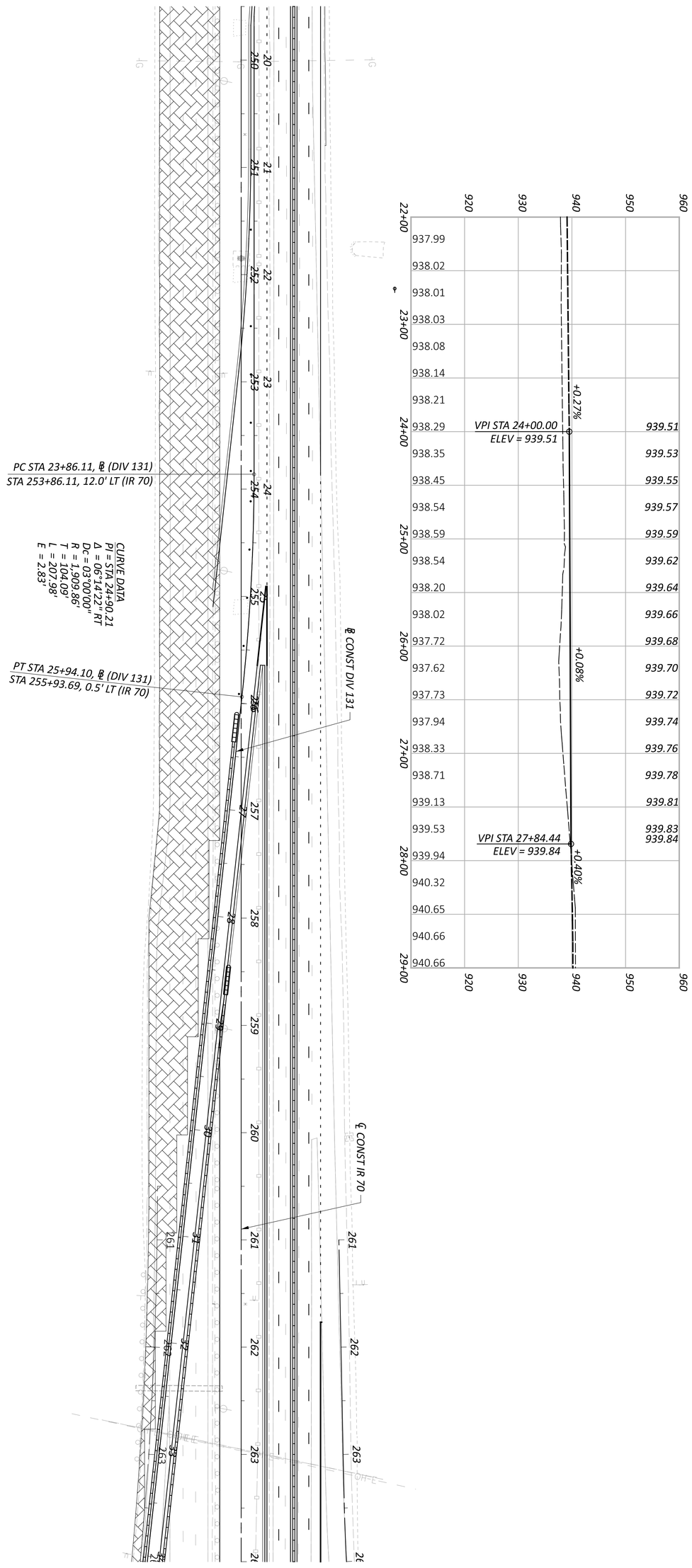

CROSSOVER DETAIL SHEET
DIV 131

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.145	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

MODEL: MK211_1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:49 PM USER: AMerrill
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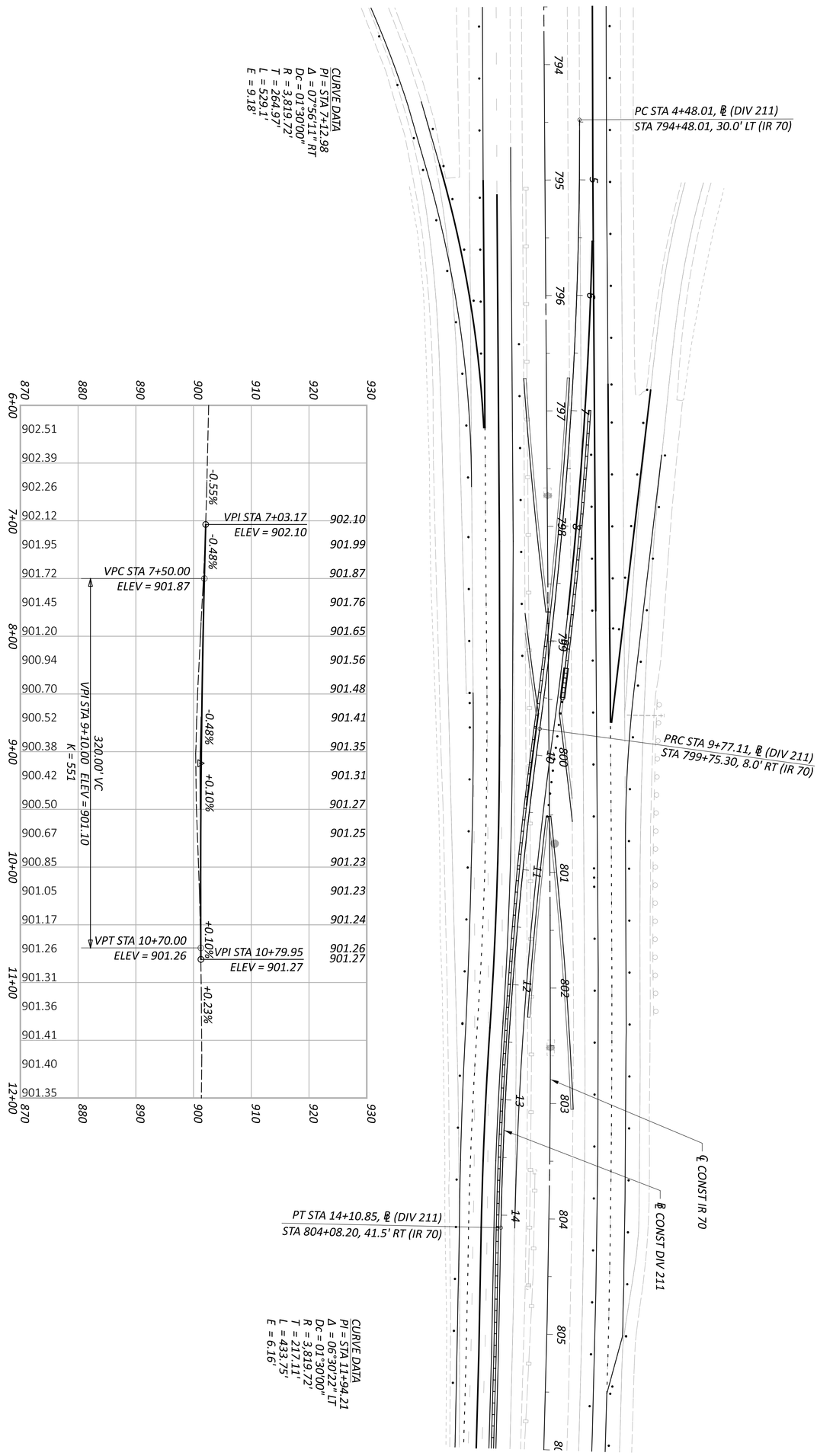
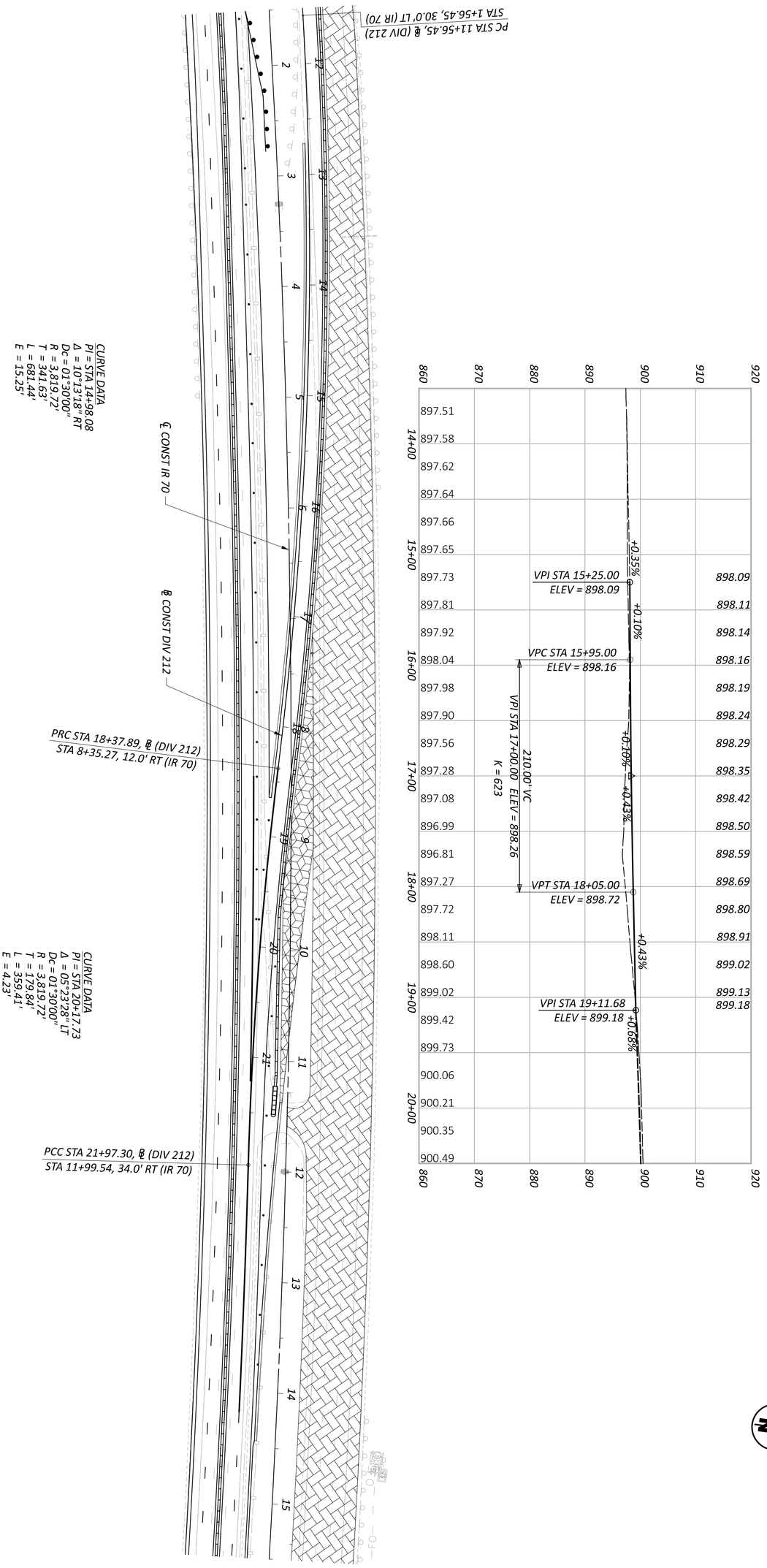


SHEET P.146 TOTAL 577	PROJECT ID 116949	REVIEWER AJL 08/23/24	DESIGNER DMS	DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.	CROSSOVER DETAIL SHEET DIV 211

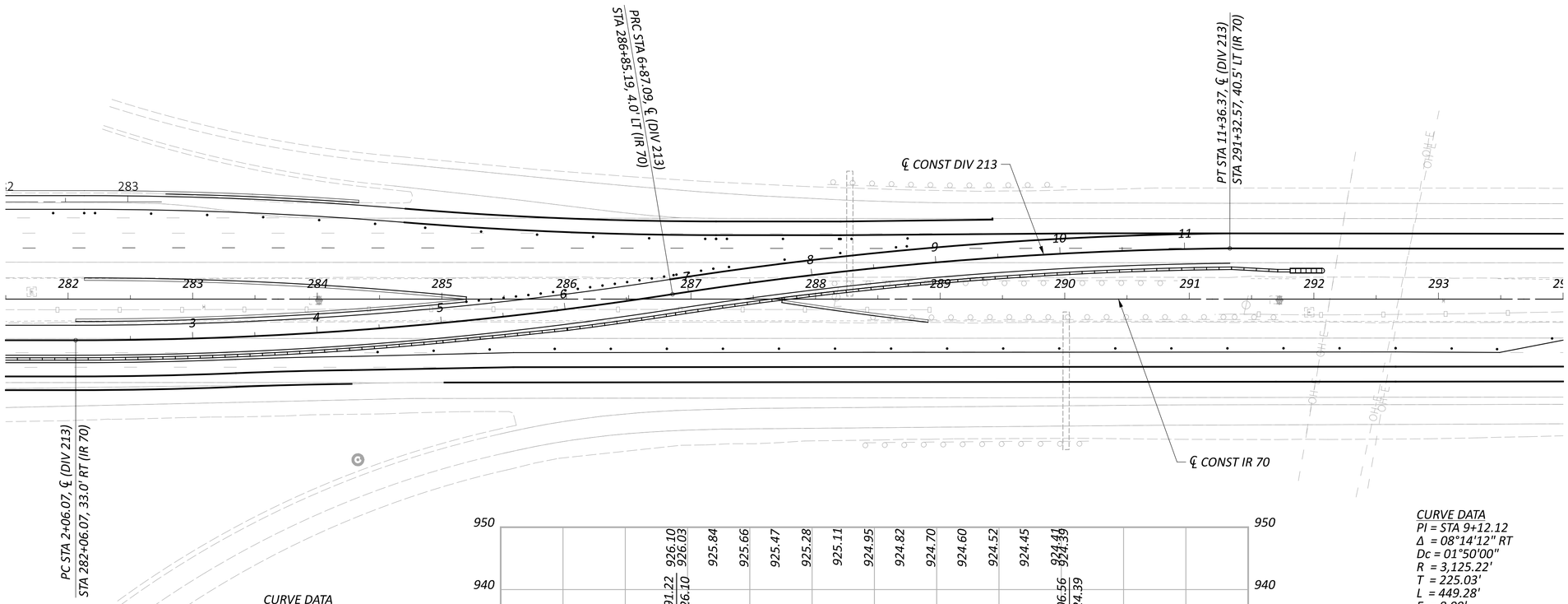
HORIZONTAL SCALE IN FEET
0 50
25 100



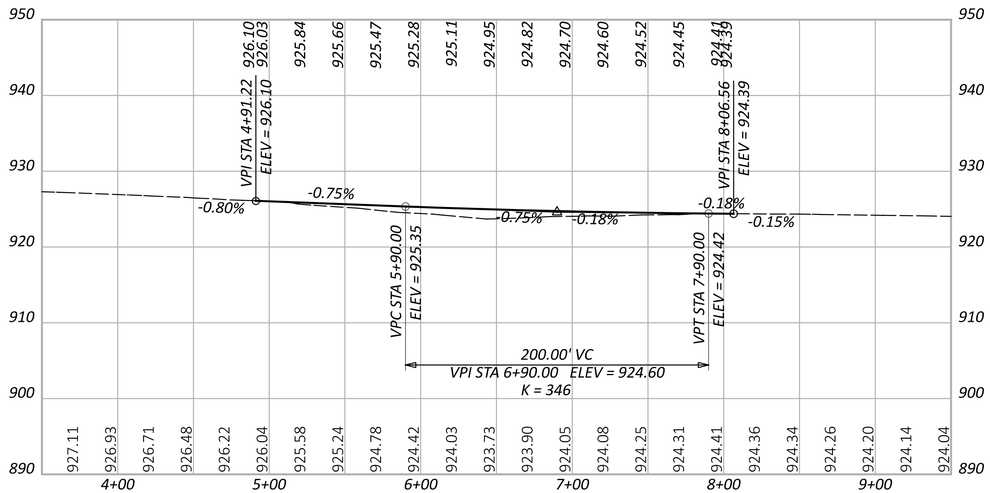
SHEET P.147	TOTAL 577	PROJECT ID 116949	REVIEWER AJL 08/23/24	DESIGNER DMS	DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.

CROSSOVER DETAIL SHEET
DIV 212

HORIZONTAL SCALE IN FEET
0 25 50 100



CURVE DATA
PI = STA 4+47.06
Δ = 08°49'07" LT
Dc = 01°50'00"
R = 3,125.22'
T = 240.99'
L = 481.02'
E = 9.28'



CURVE DATA
PI = STA 9+12.12
Δ = 08°14'12" RT
Dc = 01°50'00"
R = 3,125.22'
T = 225.03'
L = 449.28'
E = 8.09'

HORIZONTAL
SCALE IN FEET
0 50 100
25

CROSSOVER DETAIL SHEET
DIV 213

FRA-70-00.00

MODEL: MK213-1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:51 PM USER: AMerrill
O:\2023\00711\C. Design\116949_FRA-70-0.00\400-Engineering\MOT\Sheets\116949_MX210.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

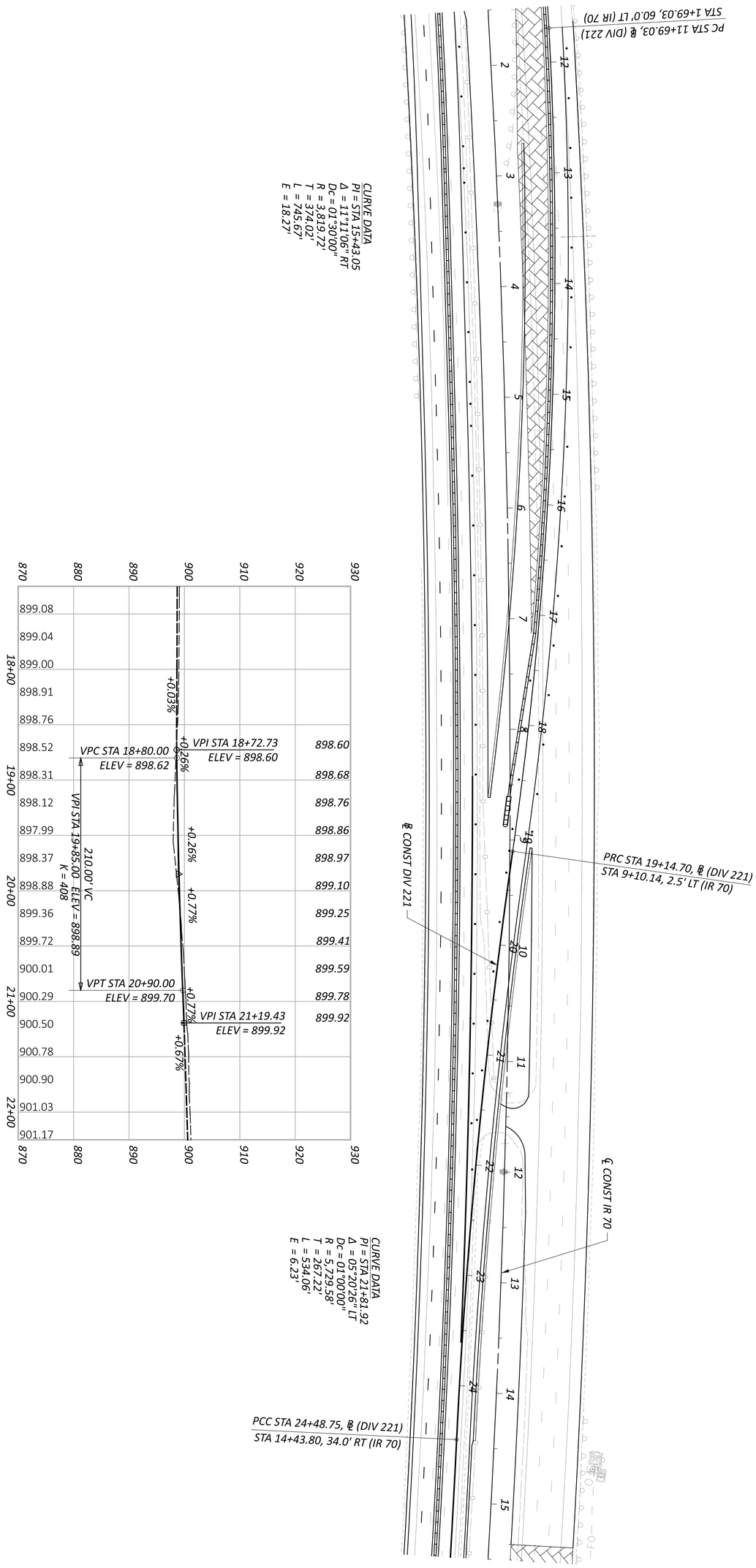
DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.148 TOTAL 577

MODEL: MK221_1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:53 PM USER: AMerrill
O:\2023\00711\C. Design\116949_FRA-70-0.00\400-Engineering\MOT\Sheets\116949_MX220.dgn



SHEET P.149 TOTAL 577	PROJECT ID 116949	REVIEWER AJL 08/23/24	DESIGNER DMS	AMERICAN STRUCTUREPOINT INC. DESIGN AGENCY	CROSSOVER DETAIL SHEET DIV 221	HORIZONTAL SCALE IN FEET 0 50 25 100

SHEET NUM.																PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	P.14	P.15	P.16	P.26	P.54	P.156	P.158	P.159	P.161	P.162	P.176	P.474	P.448			01/IMS/04	02/IMS/13						
																						ROADWAY	
LS																LS		201	11000	LS		CLEARING AND GRUBBING	
									23							23		202	20010	23	EACH	HEADWALL REMOVED	
						7,634										7,634		202	23000	7,634	SY	PAVEMENT REMOVED	
						305,325										305,325		202	23001	305,325	SY	PAVEMENT REMOVED, AS PER PLAN	P.15
									6,895							6,895		202	35100	6,895	FT	PIPE REMOVED, 24" AND UNDER	
								12,717								12,717		202	38000	12,717	FT	GUARDRAIL REMOVED	
								24								24		202	42010	24	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
								17								17		202	42040	17	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
								18								18		202	47000	18	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
								28,053								28,053		202	48000	28,053	FT	CABLE BARRIER REMOVED	
									2							2		202	58000	2	EACH	MANHOLE REMOVED	
									37							37		202	58100	37	EACH	CATCH BASIN REMOVED	
								30								30		202	75000	30	FT	FENCE REMOVED	
		1,618											109,041			110,659		203	10000	110,659	CY	EXCAVATION	
													6,389			6,389		203	20000	6,389	CY	EMBANKMENT	
						122										122		204	45000	122	HOUR	PROOF ROLLING	
						9,458										9,458		206	10500	9,458	TON	CEMENT	
						366,237										366,237		206	11000	366,237	SY	CURING COAT	
						366,237										366,237		206	15010	366,237	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	P.13
LS																LS		206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	P.13
1.25																1.25		209	15051	1.25	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	P.15
							6,084									6,084		606	15050	6,084	FT	GUARDRAIL, TYPE MGS	
							200									200		606	15550	200	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
							5									5		606	26050	5	EACH	ANCHOR ASSEMBLY, MGS TYPE B	P.14
				1			19									20		606	26150	20	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	P.14
					1		14									15		606	26550	15	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
							17									17		606	35002	17	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
							1									1		606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
	29,780															29,780		SPECIAL	60655000	29,780	FT	CABLE BARRIER, MOW STRIP	P.14
							28,480									28,480		SPECIAL	60655010	28,480	FT	CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION	P.14
							26									26		SPECIAL	60655150	26	EACH	CABLE BARRIER, ANCHOR ASSEMBLY	P.14
							2									2		SPECIAL	60655180	2	EACH	CABLE BARRIER, SPLICE	P.14
							376									376		SPECIAL	60655190	376	EACH	CABLE BARRIER, POST REFLECTOR	P.14
							6									6		606	60012	6	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	
								50								50		607	15100	50	FT	FENCE, TYPE 47RA	
							230									230		622	24000	230	FT	CONCRETE BARRIER, TYPE D	
							8									8		622	25000	8	EACH	CONCRETE BARRIER END SECTION, TYPE D	
							8									8		622	25050	8	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
LS																LS		878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																						EROSION CONTROL	
											66	171				237		601	21050	237	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
		1,618														1,618		601	45050	1,618	CY	BIORETENTION CELL	P.15
		6														6		659	00100	6	EACH	SOIL ANALYSIS TEST	
		27,325														27,325		659	00300	27,325	CY	TOPSOIL	
		245,900														245,900		659	10000	245,900	SY	SEEDING AND MULCHING	
		12,295														12,295		659	14000	12,295	SY	REPAIR SEEDING AND MULCHING	
		12,295														12,295		659	15000	12,295	SY	INTER-SEEDING	
		34.3														34.3		659	20000	34.3	TON	COMMERCIAL FERTILIZER	
		50.81														50.81		659	31000	50.81	ACRE	LIME	
		1,361														1,361		659	35000	1,361	MGAL	WATER	
		553														553		659	40000	553	MSF	MOWING	
										11,575						11,575		670	00700	11,575	SY	DITCH EROSION PROTECTION	
			LS													LS		832	15001	LS		STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN	P.16
			LS													LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
			LS													LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
			996,615													996,615		832	30000	996,615	EACH	EROSION CONTROL	

GENERAL SUMMARY

DESIGN AGENCY
WISDOT STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.150 TOTAL 577

FRA-70-00.00

MODEL: GENSUM1 PAPERSIZE: 34x22 (in.) DATE: 1/24/2025 TIME: 5:51:07 PM USER: AMerrill
O:\2023\007111\C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_GG001.dgn

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.16A	P.17	P.26	P.156	P.158	P.161	P.474	P.490					01/IMS/04	02/IMS/13						
																		DRAINAGE	
					7.8							7.8		602	20000	7.8	CY	CONCRETE MASONRY	
						125,266						125,266		605	11110	125,266	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
						119,872						119,872		605	14020	119,872	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
						4,265						4,265		611	01500	4,265	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
					2,166							2,166		611	05900	2,166	FT	15" CONDUIT, TYPE B	
					924							924		611	06100	924	FT	15" CONDUIT, TYPE C	
					1,346							1,346		611	07600	1,346	FT	18" CONDUIT, TYPE C	
					397							397		611	10400	397	FT	24" CONDUIT, TYPE B	
					2,062							2,062		611	10600	2,062	FT	24" CONDUIT, TYPE C	
					33							33		611	98230	33	EACH	CATCH BASIN, NO. 4	
					4							4		611	98470	4	EACH	CATCH BASIN, NO. 2-2B	
					6							6		611	99574	6	EACH	MANHOLE, NO. 3	
						96						96		611	99710	96	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
500												500		251	01043	500	CY	PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE), AS PER PLAN	P.16A
			123,344									123,344		254	01000	123,344	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.5")	P.15
			96,316									96,316		302	66001	96,316	CY	ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX	P.16A
			60,609									60,609		304	20000	60,609	CY	AGGREGATE BASE	
			34,004									34,004		407	20000	34,004	GAL	NON-TRACKING TACK COAT	
		2,180										2,180		411	10000	2,180	CY	STABILIZED CRUSHED AGGREGATE	
				300								300		441	70801	300	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	P.15
			24,962									24,962		442	00100	24,962	CY	ANTI-SEGREGATION EQUIPMENT	
			16,532									16,532		442	10080	16,532	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
			19,309									19,309		442	10300	19,309	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447)	
			7,507									7,507		452	17060	7,507	SY	14.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA	
							20.66					20.66		618	40600	20.66	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
	20.45											20.45		618	41000	20.45	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	P.17
																		LIGHTING	
			3									3		625	00480	3	EACH	CONNECTION, UNFUSED PERMANENT	
			5									5		625	15200	5	EACH	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	
			2,306									2,306		625	24314	2,306	FT	1-1/2" DUCT CABLE WITH THREE NO. 1/0 AWG 2400 VOLT CABLES	
			98									98		625	25500	98	FT	CONDUIT, 3", 725.04	
			15									15		625	27520	15	EACH	REMOVAL OF LUMINAIRE AND REERECTION	
			2,246									2,246		625	29002	2,246	FT	TRENCH, 24" DEEP	
			2									2		625	30700	2	EACH	PULL BOX, 725.08, 18"	
			10									10		625	32000	10	EACH	GROUND ROD	
			5									5		625	35021	5	EACH	RE-ERECT EXISTING LIGHT TOWER, AS PER PLAN	P.16
			2,246									2,246		625	36010	2,246	FT	UNDERGROUND WARNING/MARKING TAPE	
			5									5		625	75360	5	EACH	LIGHT TOWER REMOVED FOR STORAGE	
			5									5		625	75540	5	EACH	LIGHT TOWER FOUNDATION REMOVED	
			1									1		625	75800	1	EACH	DISCONNECT CIRCUIT	

GENERAL SUMMARY

FRA-70-00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.151 TOTAL 577

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.16	P.158	P.490	P.491	P.493	P.520							01/IMS/04	02/IMS/13						
																		TRAFFIC CONTROL	
		1,012										1,012		621	00100	1,012	EACH	RPM	
				4								4		625	32000	4	EACH	GROUND ROD	
	24											24		626	00102	24	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
	126											126		626	00116	126	EACH	BARRIER REFLECTOR, TYPE 5, ONE WAY	
				184								184		630	02100	184	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
				391								391		630	03100	391	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
				188								188		630	04100	188	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
				193								193		630	06100	193	FT	GROUND MOUNTED SUPPORT, NO. 6 POST	
				28								28		630	06400	28	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
				70								70		630	06500	70	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9	
				171								171		630	07600	171	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
				1								1		630	08200	1	EACH	GROUND MOUNTED SUPPORT, PIPE	
				6								6		630	08600	6	EACH	SIGN POST REFLECTOR	
				2								2		630	72420	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2	
				562								562		630	80100	562	SF	SIGN, FLAT SHEET	
				120								120		630	80200	120	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
				565								565		630	80224	565	SF	SIGN, OVERHEAD EXTRUSHEET	
				12								12		630	84500	12	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
				4								4		630	84510	4	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
				1								1		630	84600	1	EACH	GROUND MOUNTED PIPE SUPPORT FOUNDATION	
			60									60		630	84900	60	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			6									6		630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
			72									72		630	86002	72	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			14									14		630	86102	14	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
			1									1		630	86272	1	EACH	REMOVAL OF GROUND MOUNTED PIPE SUPPORT AND DISPOSAL	
			4									4		630	87400	4	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
			2									2		630	89804	2	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-15.115	
		1.42										1.42		807	12010	1.42	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
		0.39										0.39		807	12110	0.39	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
		26.06										26.06		807	14010	26.06	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
		26.2										26.2		807	14110	26.2	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
		10,738										10,738		807	14310	10,738	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"	
		5,251										5,251		807	14410	5,251	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
		53.26										53.26		850	10010	53.26	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
		10,738										10,738		850	10130	10,738	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
		1.79										1.79		850	20010	1.79	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
																		NOISE BARRIERS	
3												3		SPECIAL	60610720	3	EACH	NOISE BARRIER PANEL REMOVAL AND REUSE	P.16
																		STRUCTURE OVER 20 FOOT SPAN (FRA-70-0329 R)(SFN 2503816)	
					LS								LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.519
					200								200	202	22900	200	SY	APPROACH SLAB REMOVED	
					LS								LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
					LS								LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
					13,723								13,723	509	10000	13,723	LB	EPOXY COATED STEEL REINFORCEMENT	
					700								700	509	20001	700	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT,	P.519
																		AS PER PLAN	
					136								136	510	10000	136	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
					43								43	511	34410	43	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
					9								9	511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
					47								47	512	10050	47	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
					161								161	512	10051	161	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN	P.519
					5								5	512	33000	5	SY	TYPE 2 WATERPROOFING	
					109								109	516	10010	109	FT	ARMORLESS PREFORMED JOINT SEAL	
					113								113	516	13200	113	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
					112								112	516	13600	112	SF	1" PREFORMED EXPANSION JOINT FILLER	
					127								127	516	14014	127	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
					LS								LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	P.519
					53								53	518	21200	53	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
					126								126	518	40000	126	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
					100								100	518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	

GENERAL SUMMARY

DESIGN AGENCY
WISEDOT STRUCTUREPOINT INC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.152 TOTAL 577

FRA-70-00.00

MODEL: GENSUM3 PAPERSIZE: 34x22 (in.) DATE: 1/28/2025 TIME: 9:03:49 AM USER: AMerrill
O:\2023\007111\C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_GG001.dgn

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.520	P.521											01/IMS/04	02/IMS/13						
																		STRUCTURE OVER 20 FOOT SPAN (FRA-70-0329 R)(SFN 2503816) (CONTINUED)	
297													297	526	25000	297	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")	
109													109	526	90030	109	FT	TYPE C INSTALLATION	
25													25	601	20000	25	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
347													347	848	10200	347	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK	
310													310	848	20000	310	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
2													2	848	30200	2	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
4													4	848	50000	4	SY	HAND CHIPPING	
LS													LS	848	50100	LS		TEST SLAB	
547													547	848	50320	547	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" THICK	
4													4	848	50340	4	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
																		STRUCTURE OVER 20 FOOT SPAN (FRA-70-0329 L)(SFN 2503840)	
	LS												LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.519
	200												200	202	22900	200	SY	APPROACH SLAB REMOVED	
	LS												LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
	LS												LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
	13,723												13,723	509	10000	13,723	LB	EPOXY COATED STEEL REINFORCEMENT	
	700												700	509	20001	700	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT,	P.519
																		AS PER PLAN	
	136												136	510	10000	136	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
	43												43	511	34410	43	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
	9												9	511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
	47												47	512	10050	47	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
	161												161	512	10051	161	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN	P.519
	5												5	512	33000	5	SY	TYPE 2 WATERPROOFING	
	109												109	516	10010	109	FT	ARMORLESS PREFORMED JOINT SEAL	
	113												113	516	13200	113	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
	112												112	516	13600	112	SF	1" PREFORMED EXPANSION JOINT FILLER	
	127												127	516	14014	127	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
	LS												LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	P.519
	53												53	518	21200	53	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
	126												126	518	40000	126	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
	100												100	518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
	297												297	526	25000	297	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")	
	109												109	526	90030	109	FT	TYPE C INSTALLATION	
	25												25	601	20000	25	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
	347												347	848	10200	347	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK	
	310												310	848	20000	310	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
	2												2	848	30200	2	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
	4												4	848	50000	4	SY	HAND CHIPPING	
	547												547	848	50320	547	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" THICK	
	4												4	848	50340	4	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	

GENERAL SUMMARY

FRA-70-00.00

MODEL: GENSUM4 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:56 PM USER: AMerrill
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DESIGN AGENCY
WIEHEAV STRUCTUREPOINT INC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.153 TOTAL 577

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.535	P.536											01/IMS/04	02/IMS/13						
																		STRUCTURE OVER 20 FOOT SPAN (FRA-70-04170 R)(SFN 2503905)	
LS													LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.534
200													200	202	22900	200	SY	APPROACH SLAB REMOVED	
LS													LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
LS													LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
11,558													11,558	509	10000	11,558	LB	EPOXY COATED STEEL REINFORCEMENT	
800													800	509	20001	800	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT,	P.534
																		AS PER PLAN	
146													146	510	10000	146	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
49													49	511	34410	49	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
9													9	511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
50													50	512	10050	50	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
216													216	512	10051	216	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN	P.534
5													5	512	33000	5	SY	TYPE 2 WATERPROOFING	
118													118	516	10010	118	FT	ARMORLESS PREFORMED JOINT SEAL	
122													122	516	13200	122	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
120													120	516	13600	120	SF	1" PREFORMED EXPANSION JOINT FILLER	
136													136	516	14014	136	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
LS													LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	P.534
57													57	518	21200	57	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
135													135	518	40000	135	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
100													100	518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
297													297	526	25000	297	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")	
118													118	526	90030	118	FT	TYPE C INSTALLATION	
35													35	601	20000	35	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
496													496	848	10200	496	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK	
459													459	848	20000	459	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
3													3	848	30200	3	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
5													5	848	50000	5	SY	HAND CHIPPING	
696													696	848	50320	696	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" THICK	
5													5	848	50340	5	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
	LS												LS	202	11203	LS		**STRUCTURE OVER 20 FOOT SPAN (FRA-70-04170 L)(SFN 2503964)**	
	200												200	202	22900	200	SY	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.534
	LS												LS	503	11100	LS		APPROACH SLAB REMOVED	
	LS												LS	503	21300	LS		COFFERDAMS AND EXCAVATION BRACING	
	11,558												11,558	509	10000	11,558	LB	UNCLASSIFIED EXCAVATION	
																		EPOXY COATED STEEL REINFORCEMENT	
	800												800	509	20001	800	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT,	P.534
																		AS PER PLAN	
	146												146	510	10000	146	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
	49												49	511	34410	49	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
	9												9	511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
	50												50	512	10050	50	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
	216												216	512	10051	216	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN	P.534
	5												5	512	33000	5	SY	TYPE 2 WATERPROOFING	
	118												118	516	10010	118	FT	ARMORLESS PREFORMED JOINT SEAL	
	122												122	516	13200	122	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
	120												120	516	13600	120	SF	1" PREFORMED EXPANSION JOINT FILLER	
	136												136	516	14014	136	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
	LS												LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	P.534
	57												57	518	21200	57	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
	135												135	518	40000	135	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
	100												100	518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
	297												297	526	25000	297	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")	
	118												118	526	90030	118	FT	TYPE C INSTALLATION	
	35												35	601	20000	35	SY	CRUSHED AGGREGATE SLOPE PROTECTION	
	496												496	848	10200	496	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK	
	459												459	848	20000	459	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
	3												3	848	30200	3	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
	5												5	848	50000	5	SY	HAND CHIPPING	
	696												696	848	50320	696	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" THICK	
	5												5	848	50340	5	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	

GENERAL SUMMARY

DESIGN AGENCY
WSP USA STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.154 TOTAL 577

FRA-70-00.00

MODEL: GENSUM5 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:56 PM USER: AMerrill
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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	P.17	P.18	P.20	P.21	P.26							01/IMS/04	02/IMS/13						
																		MAINTENANCE OF TRAFFIC	
			2,000									2,000		614	11110	2,000	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
					2,189.5							2,189.5		SPECIAL	61412200	2,189.5	FT	WORK ZONE GUARDRAIL	P. 19
					26							26		614	12380	26	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
		18										18		614	12484	18	EACH	WORK ZONE INCREASED PENALTIES SIGN	
4												4		614	12756	4	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM	
					5,265							5,265		614	12801	5,265	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, ONE WAY	P.19
					2,514							2,514		614	13310	2,514	EACH	BARRIER REFLECTOR, TYPE 1 , BIDIRECTIONAL	
					512							512		614	13310	512	EACH	BARRIER REFLECTOR, TYPE 1 , ONE WAY	
					29							29		614	13312	29	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
					1,769							1,769		614	13350	1,769	EACH	OBJECT MARKER, ONE WAY	
				48								48		614	18601	48	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.21
					46.45							46.45		614	20366	46.45	MILE	WORK ZONE LANE LINE, CLASS I, 6", 648	
			26.59									26.59		614	20560	26.59	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	P.20
					80.98							80.98		614	22336	80.98	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 648	
			27.48									27.48		614	22360	27.48	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	P.20
					34,946							34,946		614	23150	34,946	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648	
			10,738									10,738		614	23690	10,738	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	P.20
					20,916							20,916		614	24142	20,916	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 648	
			5,251									5,251		614	24612	5,251	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	P.20
					309							309		614	25120	309	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 648	
LS												LS		615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
					31,669							31,669		615	20000	31,669	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
				200								200		615	25001	200	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 1	P.21
				200								200		615	25001	200	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 2A	P.21
				13,800								13,800		615	25001	13,800	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 2B	P.21
				250								250		615	25001	250	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 3	P.21
				250								250		615	25001	250	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN, TYPE 4	P.21
	1,500											1,500		616	10000	1,500	MGAL	WATER	
					62,797							62,797		622	41011	62,797	FT	PORTABLE BARRIER, 50", AS PER PLAN	P. 17
					25,209							25,209		622	41100	25,209	FT	PORTABLE BARRIER, UNANCHORED	
		180										180		808	18700	180	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
			24									24		829	00100	24	SNMT	WORK ZONE EGRESS WARNING SYSTEM	
			96									96		896	00010	96	SNMT	PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I	
			24									24		896	00021	24	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.20
																		INCIDENTALS	
LS												LS		108	10000	LS		CPM PROGRESS SCHEDULE	
18,500												18,500		SPECIAL	11110100	18,500	EACH	DEPARTMENTS SHARE FACILITATED PARTNERING COSTS	
LS												LS		614	11000	LS		MAINTAINING TRAFFIC	
30												30		619	16020	30	MNTH	FIELD OFFICE, TYPE C	
LS												LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
LS												LS		624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

FRA-70-00.00

MODEL: GENSUM6 PAPERSIZE: 34x22 (in.) DATE: 1/28/2025 TIME: 10:51:36 AM USER: AMerrill
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DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.155 TOTAL 577

LOCATION	STATION		SIDE	LENGTH	WIDTH	AREA	TOTAL CADD AREA	SHOULDER CADD AREA	202 PAVEMENT REMOVED	202 PAVEMENT REMOVED, AS PER PLAN	204 PROOF ROLLING	206 CEMENT	206 CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	206 CURING COAT	254 PAVEMENT PLANING, ASPHALT CONCRETE (1.5")	302 ASPHALT CONCRETE BASE, AS PER PLAN, 25.0 MM GYRATORY MIX	304 AGGREGATE BASE	407 NON-TRACKING TACK COAT	442 ANTI-SEGREGATION EQUIPMENT	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447)	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	452 14.5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P WITH QC/QA
	FROM	TO		FT	FT	SY	SY	SY	SY	SY	HOUR	TON	SY	SY	SY	CY	CY	GAL	CY	CY	CY	SY
IR 70 WB	771+12.00	820+96.00	LT	4984	50	27689	36271								36271				1511	1511		
IR 70 WB	1+27.00	248+50.00	LT	24723	56	153832	152288	54940		136800	53	4151	160419	160419		43166	26585	15229	8789	6346	7403	
IR 70 WB	248+50.00	264+78.88	LT	1629	74	13394	12682	3077		11592	4	343	13250	13250		3585	2198	1269	868	529	617	
IR 70 WB	264+78.88	273+50.00	LT	872	56	5426	5417	1938		4911	2	149	5727	5727		1539	949	542	315	226	264	
IR 70 WB	273+50.00	304+09.78	LT	3060	50	17000	24535								24534				1022	1022		
IR 70 EB	771+12.00	820+95.00	RT	4983	50	27684	34978								34978				1457	1457		
IR 70 EB	1+28.00	257+00.00	RT	25572	56	159115	157445	56827		141005	55	4287	165646	165646		44572	27451	15745	9085	6561	7654	
IR 70 EB	257+00.00	265+04.31	RT	805	75	6709	6295	1610		5699	2	171	6589	6589		1781	1093	630	425	263	307	
IR 70 EB	265+04.31	274+54.00	RT	950	56	5912	5890	2111		5318	2	162	6225	6225		1673	1032	589	342	246	287	
IR 70 EB	274+54.00	304+09.78	RT	2956	50	16423	27562								27561				1148	1148		
RAMP A	264+77.24	278+17.73	-	1341	25	3725	3917		3978		2	102	4362	4362			678					3917
RAMP E	265+03.48	277+90.00	-	1287	25	3575	3590		3656		2	93	4019	4019			623					3590
TOTALS CARRIED TO GENERAL SUMMARY									7634	305325	122	9458	366237	366237	123344	96316	60609	34004	24962	19309	16532	7507

SHEET NO	REFERENCE NO	LOCATION	STATION		SIDE	625 CONNECTION, UNFUSED PERMANENT	625 LIGHT TOWER FOUNDATION, 36"X25' DEEP	625 1-1/2" DUCT CABLE WITH THREE NO. 1/0 AWG 2400 VOLT CABLES	625 CONDUIT, 3", 725.04	625 REMOVAL OF LUMINAIRE AND REERECTION	625 TRENCH, 24" DEEP	625 UNDERGROUND WARNING/MARKING TAPE	625 PULL BOX, 725.08, 18"	625 GROUND ROD	625 RE-ERECT EXISTING LIGHT TOWER, AS PER PLAN	625 LIGHT TOWER REMOVED FOR STORAGE	625 LIGHT TOWER FOUNDATION REMOVED	625 DISCONNECT CIRCUIT
			FROM	TO		EACH	EACH	FT	FT	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH
P.205	L-1	IR 70	250+20.00	254+75.00	RT		1	465		3	455	455		2	1	1	1	
P.206	L-2	IR 70	254+75.00	259+03.00	RT		1	438		3	428	428		2	1	1	1	
P.206	L-3	IR 70	259+03.00	262+57.00	RT		1	364		3	354	354		2	1	1	1	
P.206	L-4	IR 70	262+57.00	266+60.00	RT		1	413		3	403	403		2	1	1	1	
P.207	L-5	IR 70	266+60.00	271+50.00	RT		1	500		3	490	490		2	1	1	1	
P.207	L-6	IR 70	271+50.00	271+50.00	RT			103	98		98	98	1					
P.207	L-7	IR 70	271+50.00	271+68.00	LT	3		23			18	18	1					1
TOTALS CARRIED TO GENERAL SUMMARY						3	5	2306	98	15	2246	2246	2	10	5	5	5	1

PAVEMENT AND LIGHTING SUBSUMMARIES

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.156 TOTAL 577

FRA-70-00.00

MODEL: Sheet_SurvFt PAPERSIZE: 34x22 (in.) DATE: 1/23/2025 TIME: 4:25:29 PM USER: AMerrill
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (449), (UNDER GUARDRAIL), AS PER PLAN, 3"	606 GUARDRAIL, TYPE MGS	606 GUARDRAIL, BARRIER DESIGN, TYPE MGS	606 ANCHOR ASSEMBLY, MGS TYPE B	606 ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	606 ANCHOR ASSEMBLY, MGS TYPE T	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	606 SPECIAL - CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION	606 SPECIAL - CABLE BARRIER, ANCHOR ASSEMBLY	606 SPECIAL - CABLE BARRIER, SPLICE	606 SPECIAL - CABLE BARRIER, POST REFLECTOR	606 IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	622 CONCRETE BARRIER, TYPE D	622 CONCRETE BARRIER END SECTION, TYPE D	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	626 BARRIER REFLECTOR, TYPE 1, ONE WAY	626 BARRIER REFLECTOR, TYPE 5, ONE WAY
						CY	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH
-	CAB-1	IR 70 EB	796+46.00	802+46.00	RT									600		2	9						
P.186	GR-1	IR 70 EB	1+13.60	5+15.60	RT	18.11	387.50				1		1										6
P.186	GR-2	IR 70 WB	1+13.61	5+68.61	LT	20.33	375.00			1		1											6
P.186	GR-3	IR 70 WB	1+14.33	2+62.25	LT		84.57		1			1											3
P.186	CAB-2	IR 70 EB	1+20.00	11+20.00	RT									1000	2		14						
P.186-189	CAB-3	IR 70 WB	11+80.00	38+80.00	LT									2700	2		35						
P.187	GR-4	IR 70 WB	14+37.50	17+28.10	LT	13.09	225.00			1	1												4
P.188	GR-5	IR 70 WB	29+75.00	31+53.10	LT	8.02	112.50			1	1												3
P.188-191	CAB-4	IR 70 WB	37+80.00	64+80.00	LT									2700	2		35						
P.189	GR-6	IR 70 EB	40+33.00	41+75.50	RT	6.00	62.50			1		1											3
P.189	CB-1	IR 70 EB	41+73.00	42+37.00	RT														35	1	1	3	
P.189	GR-7	IR 70 EB	41+85.00	43+54.00	RT		75.00	50.00			1							1					3
P.189	GR-8	IR 70 WB	42+80.00	44+49.00	LT	7.19	75.00	50.00			1							1					3
P.189	CB-2	IR 70 WB	43+98.00	44+61.00	LT														34	1	1	3	
P.189	GR-9	IR 70 WB	44+58.50	49+63.50	LT	22.33	425.00			1		1											7
P.191-193	CAB-5	IR 70 WB	63+80.00	90+80.00	LT									2700	2		35						
P.191	CB-3	IR 70 WB	72+50.00	73+19.00	LT														40	1	1	3	
P.191	GR-10	IR 70 EB	72+61.50	74+43.00	RT		137.50				1							1					3
P.191	GR-11	IR 70 WB	73+16.50	74+59.00	LT	6.00	62.50			1		1											3
P.191	GR-12	IR 70 EB	73+47.00	74+89.50	RT	6.00	62.50			1		1											3
P.191-192	CB-4	IR 70 EB	74+87.00	75+57.00	RT														41	1	1	3	
P.191-192	GR-13	IR 70 WB	73+63.00	75+44.00	LT		137.00				1							1					
P.193-195	CAB-6	IR 70 WB	89+80.00	117+60.00	LT									2780	2		36						
P.195-196	CAB-7	IR 70 EB	113+52.00	135+32.00	RT									2180	2		29						
P.196-198	CAB-8	IR 70 WB	135+92.00	154+72.00	LT									1880	2		25						
P.196	GR-14	IR 70 EB	136+29.00	137+71.50	RT	6.00	62.50			1		1											3
P.196-197	GR-15	IR 70 EB	136+60.50	138+04.50	RT		50.00	50.00			1							1					3
P.196	CB-5	IR 70 WB	137+40.00	137+89.00	LT														20	1	1	3	
P.196-197	GR-16	IR 70 WB	137+54.00	138+98.00	LT		50.00	50.00			1							1					3
P.196-197	CB-6	IR 70 EB	137+69.00	138+18.00	RT														20	1	1	3	
P.196-197	GR-17	IR 70 WB	137+86.50	139+29.00	LT	6.42	62.50			1		1											3
P.198-199	CAB-9	IR 70 WB	153+72.00	173+52.00	LT									1980	2		26						
P.199	GR-18	IR 70 EB	170+67.86	173+72.86	RT	13.74	225.00			1		1											5
P.199	GR-19	IR 70 EB	172+24.94	173+72.86	RT		84.57		1			1											3
P.199-200	GR-20	IR 70 WB	174+56.61	176+04.53	LT		84.57		1			1											3
P.199-201	CAB-10	IR 70 WB	174+65.00	197+45.00	RT									2280	2		30						
P.200	GR-22	IR 70 EB	180+68.90	185+33.60	RT	20.93	399.10			1	1												6
P.201-203	CAB-11	IR 70 WB	196+45.00	220+25.00	LT									2380	2		31						
P.201-202	GR-23	IR 70 EB	200+32.00	201+74.50	RT	6.00	62.50			1		1											3
P.202	CB-7	IR 70 WB	201+21.00	201+70.00	LT														20	1	1	3	
P.202	CB-8	IR 70 EB	201+72.00	202+21.00	RT														20	1	1	3	
P.202	GR-24	IR 70 WB	201+67.50	203+10.00	LT	6.00	62.50			1		1											3
P.202	GR-25	IR 70 EB	208+47.90	210+13.50	RT	7.46	100.00			1	1												3
P.203	GR-26	IR 70 EB	216+82.44	219+87.44	RT	13.57	225.00			1		1											5
P.203	GR-27	IR 70 EB	218+60.26	220+08.18	RT		84.57		1			1											3
P.203-204	CAB-12	IR 70 EB	221+29.00	235+29.00	RT									1400	2		19						
P.203	GR-28	IR 70 WB	221+37.76	222+85.68	LT		84.57		1			1											3
P.203	GR-29	IR 70 WB	221+58.50	224+51.00	LT	13.01	212.50			1		1											4
P.204	GR-30	IR 70 EB	234+53.90	236+19.50	RT	7.46	100.00			1	1												3
P.204-206	CAB-13	IR 70 WB	235+89.00	252+09.00	LT									1620	2		22						
TOTALS CARRIED TO SHEET P.158						207.64	4171.45	200.00	5	17	12	17	1	26200	24	2	346	6	230	8	8	24	103

GUARDRAIL SUBSUMMARY

FRA-70-00.00

MODEL: GUARDRAILSUBSUM1 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:58 PM USER: AMerrill
O:\2023\007111C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_GS002.dgn

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER DMS

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.157 TOTAL 577

GUARDRAIL SUBSUMMARY

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN, 3" CY	606 GUARDRAIL, TYPE MGS FT	606 GUARDRAIL, BARRIER DESIGN, TYPE MGS FT	606 ANCHOR ASSEMBLY, MGS TYPE B EACH	606 ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) EACH	606 ANCHOR ASSEMBLY, MGS TYPE T EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EACH	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 EACH	606 SPECIAL - CABLE BARRIER WITH CONCRETE LINE POST FOUNDATION FT	606 SPECIAL - CABLE BARRIER, ANCHOR ASSEMBLY EACH	606 SPECIAL - CABLE BARRIER, SPLICE EACH	606 SPECIAL - CABLE BARRIER, POST REFLECTOR EACH	606 IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL) EACH	622 CONCRETE BARRIER, TYPE D FT	622 CONCRETE BARRIER END SECTION, TYPE D EACH	622 CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D EACH	626 BARRIER REFLECTOR, TYPE 1, ONE WAY EACH	626 BARRIER REFLECTOR, TYPE 5, ONE WAY EACH
P.205-207	GR-31	IR 70 EB	248+06.90	266+72.50	RT	84.03	1800			1	1												20
P.206	GR-32	IR 70 EB	260+70.90	262+49.00	RT	8.02	112.5			1	1												3
P.207-208	CAB-14	IR 70 EB	266+17.00	288+97.00	RT									2280.00	2		30						
TOTALS CARRIED THIS SHEET						92.05	1912.50	-	-	2.00	2.00	-	-	2280.00	2.00	-	30.00	-	-	-	-	-	23.00
TOTALS CARRIED FROM SHEET P.157						207.64	4,171.45	200.00	5.00	17.00	12.00	17.00	1.00	26,200.00	24.00	2.00	346.00	6.00	230.00	8.00	8.00	24.00	103.00
TOTALS CARRIED TO GENERAL SUMMARY						300	6,084	200	5	19	14	17	1	28,480	26	2	376	6	230	8	8	24	126

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.158 TOTAL 577

FRA-70-00.00

MODEL: GUARDRAILSUBSUM2 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:59 PM USER: AMerrill
O:\2023\007711C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_GS002.dgn

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	202 GUARDRAIL REMOVED	202 ANCHOR ASSEMBLY REMOVED, TYPE E	202 ANCHOR ASSEMBLY REMOVED, TYPE T	202 BRIDGE TERMINAL ASSEMBLY REMOVED	202 CABLE BARRIER REMOVED	202 FENCE REMOVED	607 FENCE, TYPE 47RA										
						FT	EACH	EACH	EACH	FT	FT	FT										
P.186	R-1	IR 70 WB	1+12.82	5+95.95	LT	486.29		1	1													
P.186	R-2	IR 70 WB	1+14.54	2+97.91	LT	185.84		1	1													
P.186	R-3	IR 70 EB	1+15.10	5+03.53	RT	389.01	1		1													
P.186	R-4	IR 70 EB	1+31.90	11+16.46	RT					984												
P.186-189	R-5	IR 70 EB	11+94.02	39+47.49	RT					2751												
P.188	R-6	IR 70 WB	29+72.98	31+47.60	LT	175.73	1	1														
P.189-191	R-7	IR 70 EB	38+65.01	66+28.28	RT					2762												
P.189	R-8	IR 70 EB	39+74.45	41+76.23	RT	201.81		1	1													
P.189	R-9	IR 70 EB	41+22.20	43+54.78	RT	316.90	2															
P.189	R-10	IR 70 WB	42+76.81	45+10.12	LT	317.56	2															
P.189	R-11	IR 70 WB	44+59.07	46+61.17	LT	202.15																
P.190	D-13	IR 70 EB	53+99.15	54+00.17	RT						6	10										
P.190	D-14	IR 70 EB	62+49.11	62+50.46	RT						6	10										
P.191-193	R-12	IR 70 EB	65+04.24	92+44.10	RT					2739												
P.191	R-13	IR 70 EB	71+98.45	74+44.06	RT	330.66	2															
P.191	R-14	IR 70 EB	72+88.78	74+89.58	RT	200.83		1	1													
P.191	R-15	IR 70 WB	73+18.67	75+20.70	LT	202.04		1	1													
P.191-192	R-16	IR 70 WB	73+62.70	75+71.00	LT	293.34	2															
P.192	D-17	IR 70 EB	84+00.51	84+01.55	RT						6	10										
P.193	D-18	IR 70 EB	93+00.78	93+01.06	RT						6	10										
P.193	D-19	IR 70 EB	102+00.30	102+00.60	RT						6	10										
P.193-195	R-17	IR 70 EB	91+58.28	118+73.57	RT					2716												
P.195-196	R-18	IR 70 EB	117+71.68	135+31.42	RT					1760												
P.196	R-19	IR 70 EB	135+79.39	137+81.03	RT	201.68		1	1													
P.196	R-20	IR 70 WB	135+98.20	138+06.63	LT	291.35	1															
P.196-197	R-21	IR 70 WB	137+51.75	139+60.88	LT	209.53	2															
P.197	R-22	IR 70 WB	137+77.32	139+76.86	LT	199.56		1	1													
P.197-198	R-23	IR 70 EB	138+33.80	155+15.02	RT					1682												
P.198-199	R-24	IR 70 EB	154+14.25	169+83.44	RT					1569												
P.199	R-25	IR 70 EB	169+34.41	173+74.82	RT	440.52	1		1													
P.199	R-26	IR 70 EB	170+06.08	173+73.91	RT	367.96	1		1													
P.199-200	R-27	IR 70 WB	174+55.73	178+20.13	LT	364.63	1		1													
P.199-200	R-28	IR 70 WB	174+59.05	178+93.70	LT	434.84	1		1													
P.199-202	R-29	IR 70 EB	174+72.75	205+18.52	RT					3043												
P.200	R-30	IR 70 EB	180+33.29	185+45.69	RT	3043.00	1	1														
P.201-202	R-31	IR 70 EB	199+12.60	201+89.53	RT	277.01		1	1													
P.202	R-32	IR 70 EB	200+75.19	201+02.14	RT	47.67																
P.202	R-33	IR 70 WB	201+52.68	204+04.17	LT	251.53		1	1													
P.202	R-34	IR 70 EB	202+41.72	202+62.53	RT	47.67																
P.202-203	R-35	IR 70 EB	204+27.18	218+90.99	RT					1464												
P.202	R-36	IR 70 EB	208+74.61	210+25.04	RT	150.47	1	1														
P.203	R-37	IR 70 EB	217+40.36	219+88.14	RT	247.80		1	1													
P.203	R-38	IR 70 EB	218+39.91	220+11.42	RT	173.85	1		1													
P.203	R-39	IR 70 WB	221+33.15	222+82.00	LT	151.26	1		1													
P.203	R-40	IR 70 WB	221+54.81	224+06.07	LT	251.29		1	1													
P.203-204	R-41	IR 70 EB	221+36.02	235+16.16	RT					1381												
P.204	R-42	IR 70 EB	234+71.86	236+23.16	RT	151.31	1	1														
P.204-207	R-43	IR 70 WB	236+04.22	265+91.48	LT					2984												
P.205-207	R-44	IR 70 EB	247+46.95	266+82.05	RT	1928.56	1	1														
P.206	R-45	IR 70 EB	261+28.28	263+10.52	RT	182.39	1	1														
P.207-208	R-46	IR 70 WB	265+01.80	276+83.94	LT					1182												
P.208	R-47	IR 70 EB	278+57.56	288+92.70	RT					1036												
TOTALS CARRIED TO GENERAL SUMMARY						12717	24	17	18	28053	30	50										

GUARDRAIL SUBSUMMARY

DESIGN AGENCY
AMEVIEW STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.159 | TOTAL 577

FRA-70-00.00

MODEL: GUARDRAILSUBSUM3 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:01:59 PM USER: AMerrill
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DRAINAGE SUBSUMMARY

SHEET NO	REFERENCE NO	LOCATION	STATION FROM	STATION TO	SIDE	202 HEADWALL REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	602 CONCRETE MASONRY	611 15" CONDUIT, TYPE B	611 15" CONDUIT, TYPE C	611 18" CONDUIT, TYPE C	611 24" CONDUIT, TYPE B	611 24" CONDUIT, TYPE C	611 CATCH BASIN, NO. 4	611 CATCH BASIN, NO. 2-2B	611 MANHOLE, NO. 3
						EACH	FT	EACH	EACH	CY	FT	FT	FT	FT	FT	EACH	EACH	EACH
P.186	D-1	IR 70	3+25.42	3+25.54	RT		105		1		105					1		
P.186	HW-1	IR 70	3+25.54	-	RT	1				0.3								
P.186	HW-2	IR 70	11+99.58	-	RT	1				0.5								
P.186	D-2	IR 70	11+99.58	12+00.00	RT		119		1					119		1		
P.187	D-3	IR 70	12+00.00	14+51.12	C		251								251			1
P.186 - P.187	D-4	IR 70	14+51.12	17+02.00	C		251		1						251	1		
P.187	D-5	IR 70	17+02.00	19+53.92	C		252								252			1
P.187	D-6	IR 70	19+53.92	22+05.50	C		252		1						252	1		
P.187	D-7	IR 70	22+05.50	24+55.42	C		250								250			1
P.187 - P.188	D-8	IR 70	24+55.42	27+05.37	C		250		1						250	1		
P.188	D-9	IR 70	27+05.37	29+56.16	C		251						251					1
P.188	D-10	IR 70	29+56.16	32+07.00	C		251		1				251			1		
P.189	D-11	IR 70	44+50.29	44+51.00	RT		101	1			101							1
P.189	HW-3	IR 70	44+51.00	-	RT	1				0.3								
P.189	D-12	IR 70	44+50.29	45+16.69	C		67		1			67				1		
P.190	D-13	IR 70	53+99.00	54.00.17	RT		151		1		151					1		
P.190	HW-4	IR 70	54+00.17	-	RT	1				0.3								
P.190	D-14	IR 70	62+49.00	62+50.46	RT		145		1		145					1		
P.190	HW-5	IR 70	62+50.46	-	RT	1				0.3								
P.191	HW-6	IR 70	74+72.12	-	RT	1				0.3								
P.191	D-15	IR 70	74+72.12	74+98.52	RT		158	1			158							1
P.191 - P.192	D-16	IR 70	74+98.52	75+81.00	C		83		1			83				1		
P.192	D-17	IR 70	84+00.51	84+01.59	RT		144		1		144					1		
P.192	HW-7	IR 70	84+00.51	-	RT	1				0.3								
P.193	D-18	IR 70	93+01.06	93+00.70	RT		142		1		142					1		
P.193	HW-8	IR 70	93+01.06	-	RT	1				0.3								
P.194	D-19	IR 70	102+00.37	102+00.30	RT		142		1		142					1		
P.194	HW-9	IR 70	102+00.30	-	RT	1				0.3								
P.194	D-20	IR 70	111+01.04	111+00.84	RT		118		1		118					1		
P.194	HW-10	IR 70	111+01.04	-	RT	1				0.3								
P.195	D-21	IR 70	121+01.03	121+01.20	RT		122		1		122					1		
P.195	HW-11	IR 70	121+01.20	-	RT	1				0.3								
P.196	D-22	IR 70	135+42.23	135+42.26	RT		118		1		118					1		
P.196	HW-12	IR 70	135+42.26	-	RT	1				0.3								
P.197	D-23	IR 70	140+99.92	141+00.51	RT		112		1		112					1		
P.197	HW-13	IR 70	141+00.51	-	RT	1				0.3								
P.198	D-24	IR 70	151+01.33	151+01.35	LT		119		1		119					1		
P.198	HW-14	IR 70	151+01.35	-	LT	1				0.3								
P.198	D-25	IR 70	161+00.87	161+01.05	LT		143		1		143					1		
P.198	HW-15	IR 70	161+00.87	-	LT	1				0.3								
P.199	D-26	IR 70	171+48.92	173+50.51	C		202		1			202				1		
P.199	D-27	IR 70	173+50.51	173+98.41	C		48		1			48					1	
P.199	HW-16	IR 70	173+98.41	-	C	1				0.3								
P.199	HW-17	IR 70	174+28.72	-	C	1				0.3								
P.199	D-28	IR 70	174+28.72	174+76.24	C		48		1			48					1	
P.199 - P.200	D-29	IR 70	174+76.24	177+02.28	C		226		1			226				1		
P.200	D-30	IR 70	183+51.50	183+51.67	LT		140		1					140		1		
P.200	HW-18	IR 70	183+51.67	-	LT	1				0.4								
P.200	D-31	IR 70	183+51.50	186+29.87	C		278		1						278	1		
P.200 - P.201	D-32	IR 70	186+29.87	189+08.24	C		278		1						278	1		
TOTALS CARRIED TO SHEET P.161						18	5317	2	26	5.7	1820	674	502	259	2062	24	2	6

FRA-70-00.00

MODEL: Sheet_SurvFL_1 PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 11:31:11 AM USER: AMerrill
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DESIGN AGENCY
AMEREON STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.160 TOTAL 577

SHEET NO	REFERENCE NO	LOCATION	STATION		SIDE	202	202	202	202	602	611	611	611	611	611	611	611	611				
			FROM	TO		HEADWALL REMOVED	PIPE REMOVED, 24" AND UNDER	MANHOLE REMOVED	CATCH BASIN REMOVED	CONCRETE MASONRY	15" CONDUIT, TYPE B	15" CONDUIT, TYPE C	18" CONDUIT, TYPE C	24" CONDUIT, TYPE B	24" CONDUIT, TYPE C	CATCH BASIN, NO. 4	CATCH BASIN, NO. 2-2B	MANHOLE, NO. 3				
						EACH	FT	EACH	EACH	CY	FT	FT	FT	FT	FT	EACH	EACH	EACH				
P.202 - P.203	D-33	IR 70	213+00.45	213+01.75	LT		111		1		111					1						
P.203	HW-19	IR 70	213+01.75	-	LT					0.3												
P.203	D-34	IR 70	217+99.50	219+99.34	C		200		1			200				1						
P.203	D-35	IR 70	219+99.34	220+48.83	C		50		1			50					1					
P.203	HW-20	IR 70	220+48.83	-	C	1				0.3												
P.203	HW-21	IR 70	221+06.20	-	C	1				0.4												
P.203	D-36	IR 70	221+06.20	221+49.72	C		44		1				44				1					
P.203	D-37	IR 70	221+49.72	223+50.18	C		200		1				200			1						
P.204	D-38	IR 70	236+01.91	236+02.01	RT		138		1					138		1						
P.204	HW-22	IR 70	236+02.01	-	RT	1				0.5												
P.205	D-39	IR 70	246+49.63	246+50.54	RT		129		1		129					1						
P.205	HW-23	IR 70	246+49.63	-	RT	1				0.3												
P.206	D-40	IR 70	251+84.91	251+84.94	RT		106		1		106					1						
P.206	HW-21	IR 70	251+84.94	-	RT	1				0.3												
P.207 - P.208	D-41	IR 70	269+87.50	272+87.83	C		300		1				300			1						
P.208	D-42	IR 70	272+87.83	275+88.50	C		300		1				300			1						
P.208	D-43	IR 70	275+88.50	-	C				1							1						
TOTALS THIS SHEET						5	1578	-	11	2.1	346	250	844	138	-	9	2					
TOTALS CARRIED FROM SHEET P.160						18	5317	2	26	5.7	1820	674	502	259	2062	24	2	6				
TOTALS CARRIED TO GENERAL SUMMARY						23	6895	2	37	7.8	2166	924	1346	397	2062	33	4	6				

DRAINAGE SUBSUMMARY

FRA-70-00.00

MODEL: Sheet_SurvFL_2 PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 11:32:45 AM USER: AMerrill
O:\2023\00711C_Design\116949_FRA-70-0.00\400-Engineering\Drainage\Sheets\116949_DS001.dgn

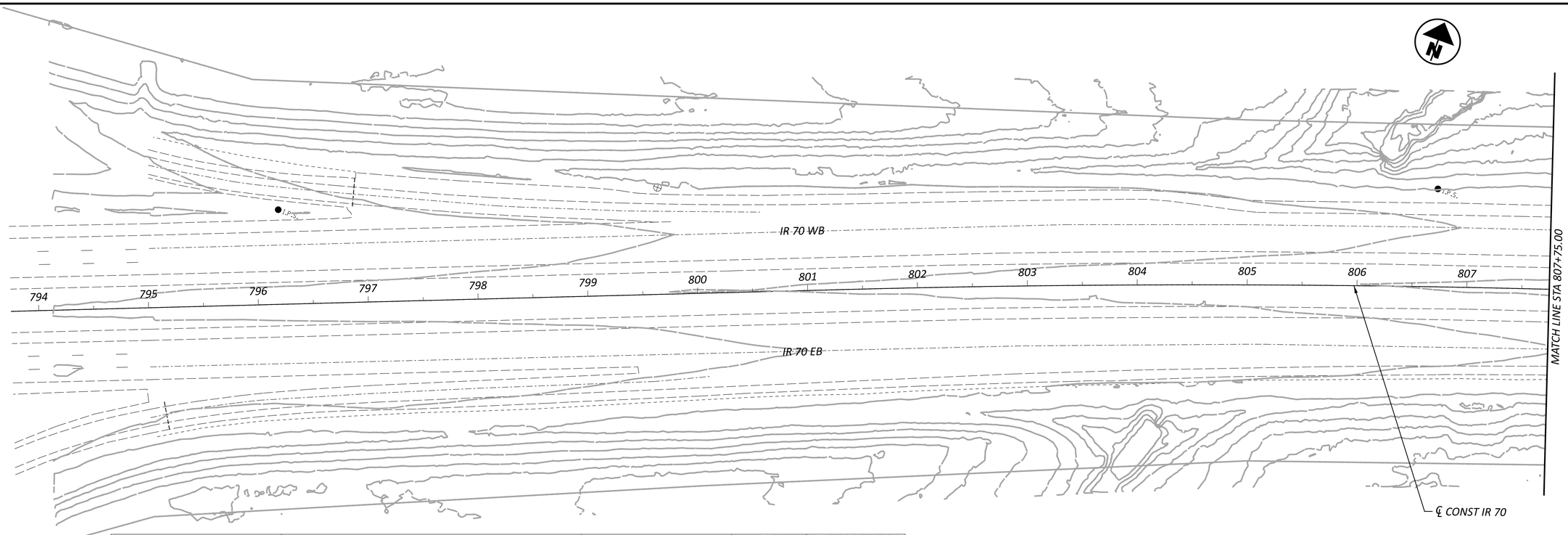
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.161 TOTAL 577



BMP TYPE	LATITUDE/LONGITUDE BEGIN		LATITUDE/LONGITUDE END		STATION BEGIN	STATION END	EDA TREATMENT CREDIT (ACRES)	ITEM 670: SLOPE EROSION PROTECTION (SQ YD)
VEGETATED BIOFILTER 1	39.980728	-83.248817	39.980825	-83.248122	1+28.00	3+26.00	0.49	242
VEGETATED BIOFILTER 2	39.980825	-83.248122	39.980969	-83.247008	3+26.00	6+42.00	0.78	382
VEGETATED BIOFILTER 3	39.981169	-83.245033	39.981250	-83.243911	12+00.00	15+15.00	0.78	382
VEGETATED BIOFILTER 4	39.981286	-83.243250	39.981336	-83.242125	17+02.00	20+17.00	0.78	382
VEGETATED BIOFILTER 5	39.981350	-83.241456	39.981364	-83.240328	22+05.00	25+20.00	0.78	382
VEGETATED BIOFILTER 6	39.981356	-83.239672	39.981339	-83.238544	27+05.00	30+20.00	0.78	382
VEGETATED BIOFILTER 7	39.981311	-83.237881	39.981247	-83.236758	32+07.00	35+22.00	0.78	382
VEGETATED BIOFILTER 8	39.981100	-83.233231	39.981061	-83.232444	45+16.00	48+31.00	0.78	382
VEGETATED BIOFILTER 9	39.980989	-83.230108	39.980944	-83.228903	53+99.00	57+14.00	0.78	382
VEGETATED BIOFILTER 10	39.980856	-83.227094	39.980786	-83.225944	62+49.00	65+64.00	0.78	382
VEGETATED BIOFILTER 11	39.980608	-83.222311	39.980547	-83.221192	75+81.00	78+96.00	0.78	382
VEGETATED BIOFILTER 12	39.980450	-83.219381	39.980397	-83.218269	84+03.00	87+18.00	0.78	382
VEGETATED BIOFILTER 13	39.980297	-83.216192	39.980250	-83.215078	93+00.00	96+15.00	0.78	382
VEGETATED BIOFILTER 14	39.980153	-83.212953	39.980094	-83.211867	102+00.00	105+15.00	0.78	382
VEGETATED BIOFILTER 15	39.980003	-83.209778	39.979939	-83.208658	111+00.00	114+15.00	0.78	382
VEGETATED BIOFILTER 16	39.979831	-83.206222	39.979775	-83.205100	121+00.00	124+15.00	0.78	382
VEGETATED BIOFILTER 17	39.979644	-83.202275	39.979594	-83.201081	132+04.00	135+42.00	0.84	409
VEGETATED BIOFILTER 18	39.979544	-83.200292	39.979497	-83.199086	137+62.00	141+00.00	0.84	409
VEGETATED BIOFILTER 19	39.979386	-83.196725	39.979336	-83.195519	147+63.00	151+01.00	0.84	409
VEGETATED BIOFILTER 20	39.979219	-83.193164	39.979164	-83.191961	157+62.00	161+00.00	0.84	409
VEGETATED BIOFILTER 21	39.979047	-83.189431	39.978992	-83.188228	168+10.00	171+49.00	0.84	409
VEGETATED BIOFILTER 22	39.978992	-83.188228	39.978958	-83.187506	171+49.00	173+50.00	0.50	246
VEGETATED BIOFILTER 23	39.978936	-83.187064	39.978897	-83.186250	174+76.00	177+02.00	0.56	275
VEGETATED BIOFILTER 24	39.978897	-83.186250	39.978844	-83.185183	177+02.00	180+04.00	0.75	365
VEGETATED BIOFILTER 25	39.978783	-83.183947	39.978733	-83.182875	183+51.00	186+52.00	0.75	365
VEGETATED BIOFILTER 26	39.978692	-83.181961	39.978639	-83.180892	189+08.00	192+09.00	0.75	365
VEGETATED BIOFILTER 27	39.978333	-83.174347	39.978297	-83.173444	210+46.00	213+00.00	0.63	308
VEGETATED BIOFILTER 28	39.978256	-83.172567	39.978219	-83.171661	215+45.00	217+99.00	0.63	308
VEGETATED BIOFILTER 29	39.978178	-83.170953	39.978156	-83.170414	219+99.00	221+50.00	0.37	183
VEGETATED BIOFILTER 30	39.978156	-83.170414	39.978125	-83.169706	221+50.00	223+49.00	0.50	243
VEGETATED BIOFILTER 31	39.978125	-83.169706	39.978067	-83.168617	223+49.00	226+57.00	0.76	371
VEGETATED BIOFILTER 32	39.977344	-83.153500	39.977333	-83.153181	269+00.00	269+88.00	0.22	107
VEGETATED BIOFILTER 33	39.977319	-83.152808	39.977272	-83.151539	270+94.00	274+50.00	0.76	431
EX BIORETENTION TRENCH 1*	39.977909	-83.165238	39.977949	-83.161612	236+01.00	246+39.13	2.60	-
EX BIORETENTION TRENCH 2*	39.977742	-83.161505	39.977656	-83.159661	246+49.00	251+79.68	1.33	-
EX BIORETENTION TRENCH 3*	39.977545	-83.159601	39.977545	-83.157452	251+84.72	258+00.00	1.53	-
TREATMENT PROVIDED							29.02	
TREATMENT REQUIRED*							24.85	
TOTAL CARRIED TO GENERAL SUMMARY								11575

*CALCULATED PER L&D VOL 2, SEC. 1111.7

** EXISTING BIORETENTION TRENCHES ARE FROM PROJECT 25594. AFTER COMPLETION OF MAINTENANCE OF TRAFFIC PHASES, EXISTING BIORETENTION TRENCHES ARE TO BE RESTORED PER THE DETAIL ON SHEET P.176

PROJECT DATA			
TOTAL AREA (RIGHT OF WAY)	201.80 AC.	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.56
PROJECT EARTH DISTURBED AREA	124.25 AC.	RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.58
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	1.00 AC.	POST CONSTRUCTION BMP: VEGETATED BIOFILTERS ARE PROVIDED TO MEET REQUIREMENTS AS SHOWN ON PROJECT SITE PLAN	
NOTICE OF INTENT EARTH DISTURBED AREA	125.25 AC.		
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	64.72 AC.	IMMEDIATE RECEIVING WATER	BIG DARBY CREEK
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	72.44 AC.	SUBSEQUENT RECEIVING WATER	SCIOTO RIVER

THIS SITE IS LOCATED WITHIN FLOOD INSURANCE RATE MAP (FIRM) PANELS 39097C0175D EFFECTIVE 6/18/2010, 39049C0276K EFFECTIVE 6/17/2008, 39049C0277K EFFECTIVE 6/17/2008, 39049C0281K EFFECTIVE 6/17/2008, AND 39049C0282K EFFECTIVE 6/17/2008.

BIG DARBY CREEK IS LOCATED WITHIN FLOOD ZONES AE AND X. BASE FLOOD ELEVATION (BFE) IS 877.0'. HAMILTON DITCH IS LOCATED WITHIN FLOOD ZONES AE AND X. BASE FLOOD ELEVATION (BFE) IS 921.0'. CLOVER GROFF DITCH IS LOCATED WITHIN FLOOD ZONES AE AND X. BASE FLOOD ELEVATION IS 928.0'.

HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 793+75.00 TO STA. 807+75.00

DESIGN AGENCY
MORPHEUS STRUCTUREPOINT INC.

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.162 TOTAL 577

FRA-70-00.00

MODEL: Plan 1 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:04 PM USER: AMerrill
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FRA-70-00.00

MODEL: Plan 2 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:05 PM USER: AMerrill
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HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 807+75.00 TO STA. 13+00.00

MATCH LINE STA 807+75.00

MADISON COUNTY
JEFFERSON TOWNSHIP
BIG DARBY CREEK

MATCH LINE STA 0+00.00

STRUCTURE NO. MAD-70-1555 L

STRUCTURE NO. MAD-70-1555 R

SUSPEND RESURFACING STA 820+96.20

SUSPEND RESURFACING STA 820+95.60

BIG DARBY CREEK REGULATORY FLOODWAY (ZONE AE)

BIG DARBY CREEK RIPARIAN SETBACK/SCPZ

BIG DARBY CREEK 100-YEAR FLOODPLAIN

REGULATORY FLOODWAY AND 100-YEAR FLOODPLAIN OVERLAP

ZONE X

℄ CONST IR 70

I.P.S.

IR 70 WB

IR 70 EB

808 809 810 811 812 813 814 815 816 817 818 819 820 821 822

STA 822+43.32 BK = STA 0+00.00 AH

NKLIN COUNTY
WN TOWNSHIP BIG DARBY CREEK

MATCH LINE STA 0+00.00

STA 822+43.32 BK = STA 0+00.00 AH

VEGETATED BIOFILTER 2

VEGETATED BIOFILTER 1

VEGETATED BIOFILTER 3

0.49 ACRES

2.17 ACRES

2.17 ACRES

CB-4

CB-4

SEDIMENT CONTROL BMP 001

SEDIMENT CONTROL BMP 002

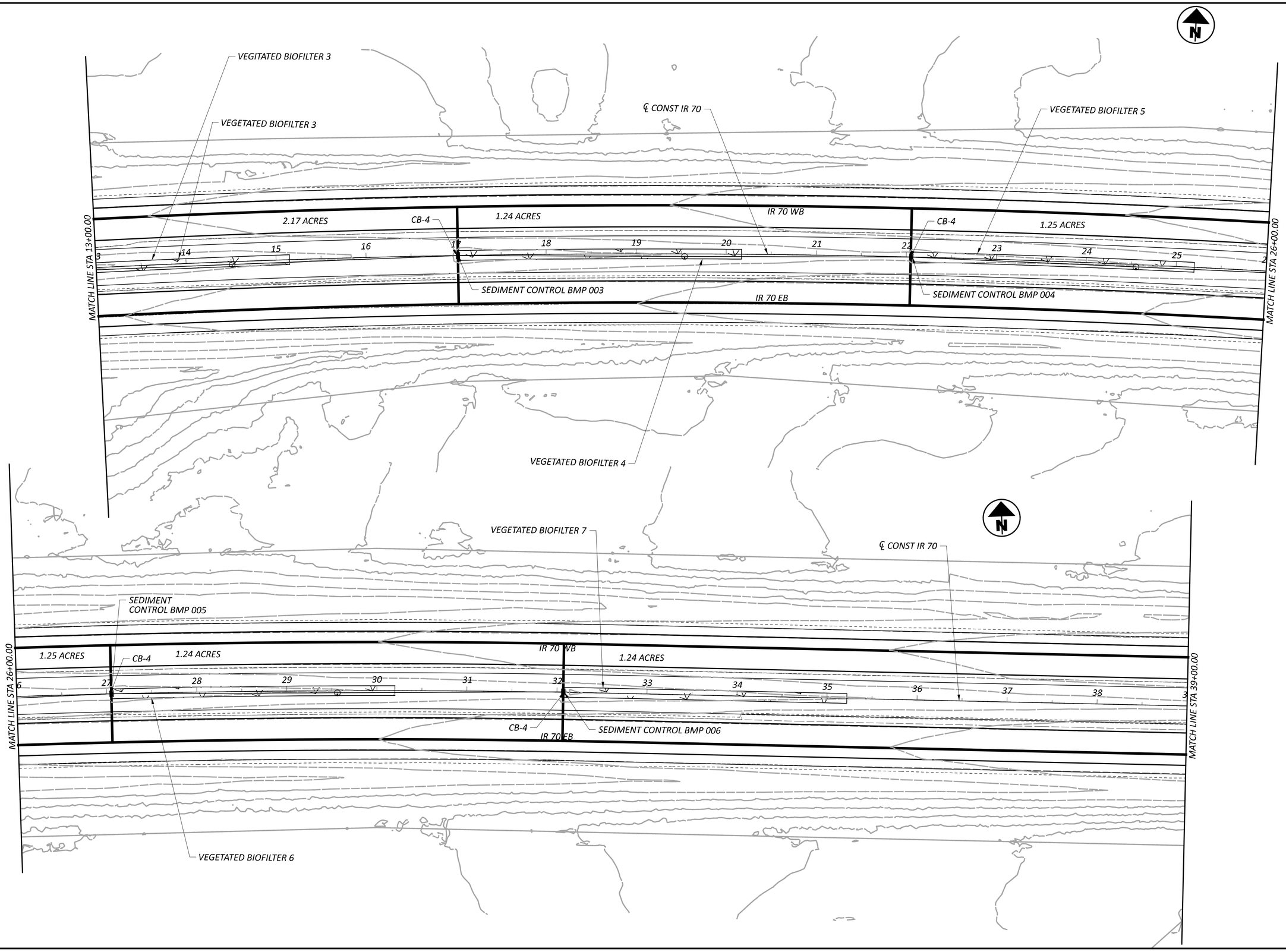
1 2 3 4 5 6 7 8 9 10 11 12 13

BEGIN PROJECT STA 1+27.00

MATCH LINE STA 13+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.163
TOTAL	577



HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 13+00.00 TO STA. 39+00.00

DESIGN AGENCY
AMEREIN STRUCTUREPOINT INC.

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.164
TOTAL	577

FRA-70-00.00

MODEL: Plan 3 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:08 PM USER: AMerrill
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MODEL: Plan 4 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:09 PM USER: AMerrill
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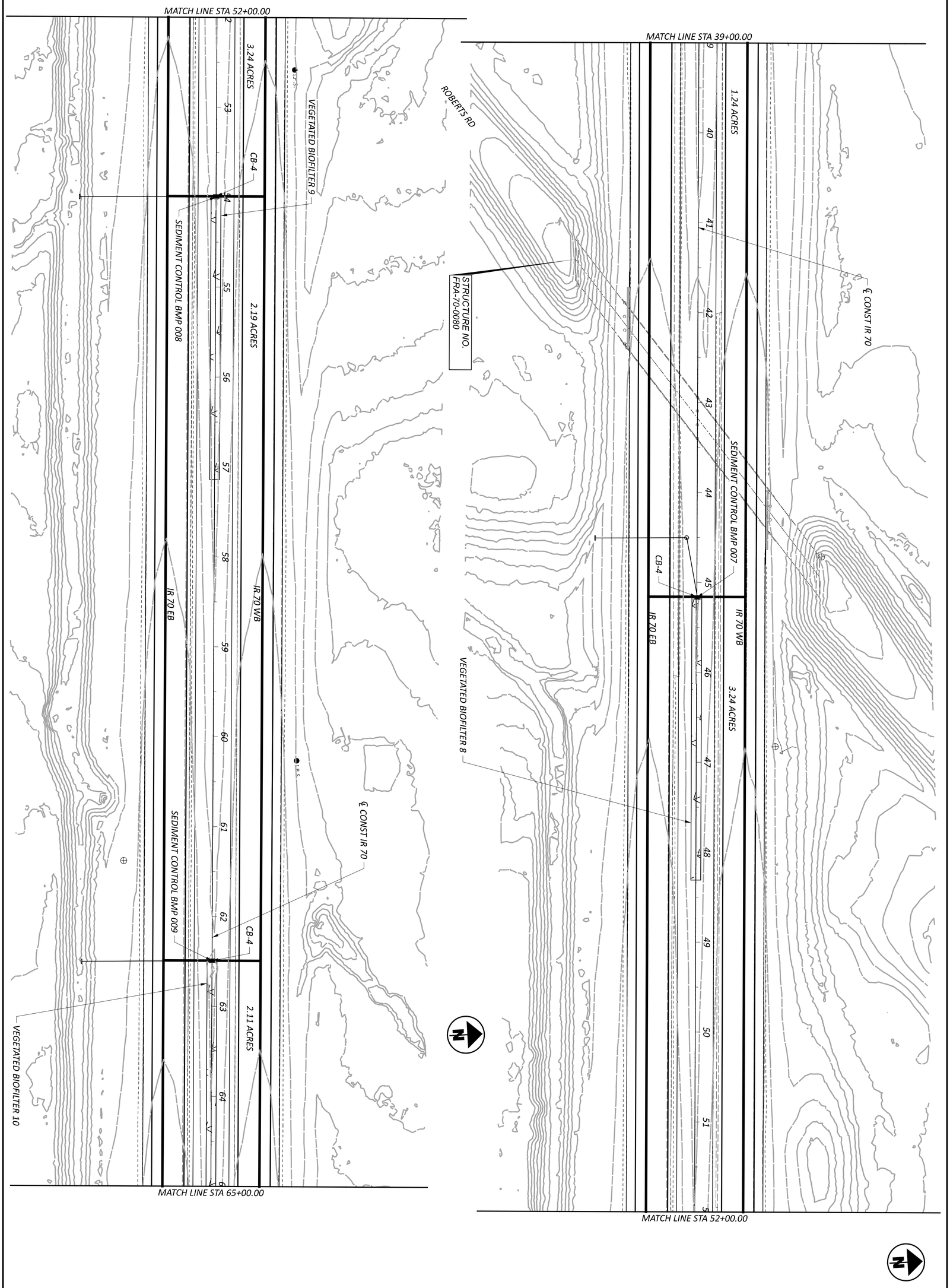


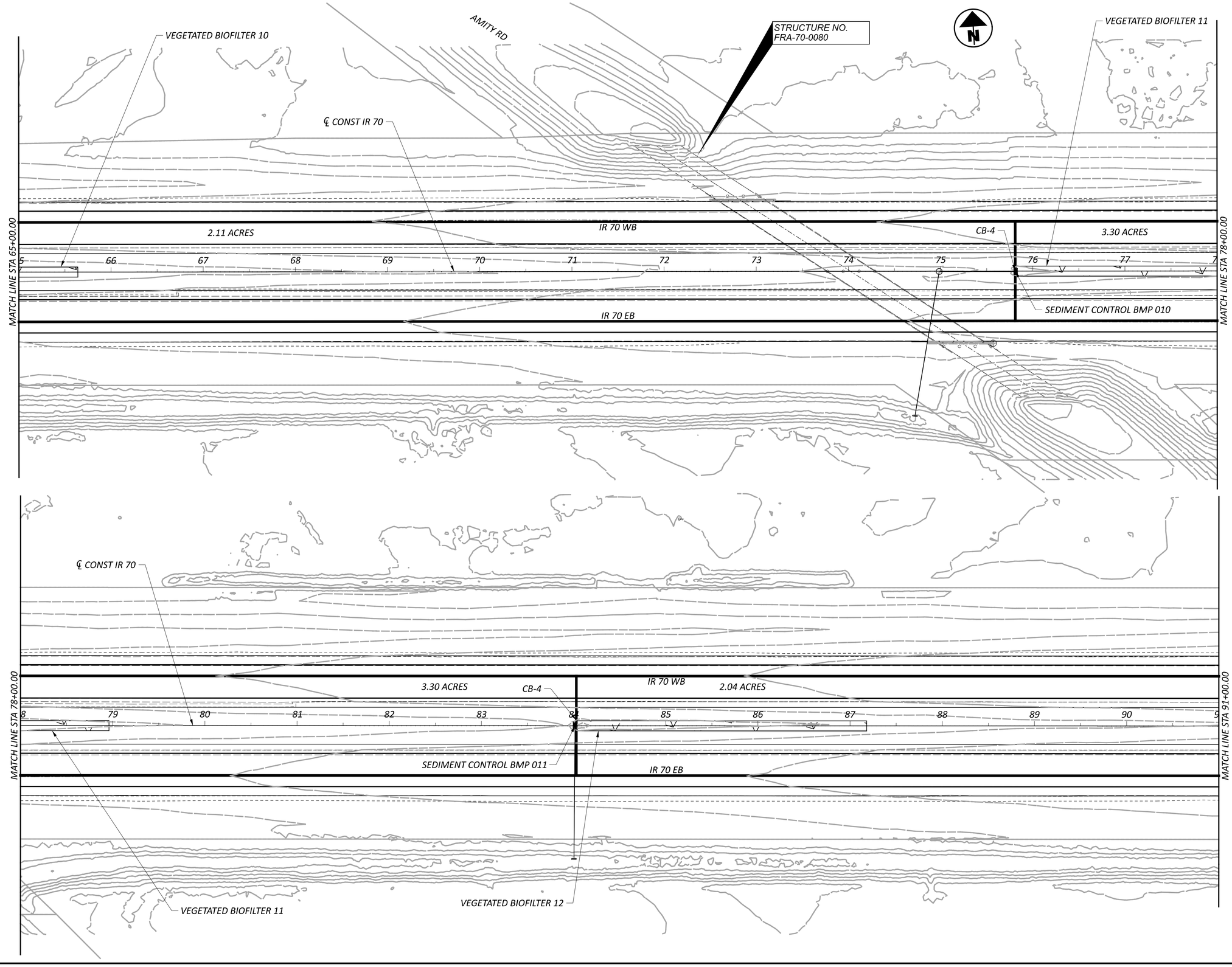
PROJECT SITE PLAN
STA. 39+00.00 TO STA. 65+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	DESIGN AGENCY
DMS	AJL 08/23/24	AMERICAN STRUCTUREPOINT INC.

PROJECT ID 116949

SHEET P.165 | TOTAL 577



HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 65+00.00 TO STA. 91+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.166 TOTAL 577

FRA-70-00.00

MODEL: Plan 5 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:11 PM USER: AMerrill
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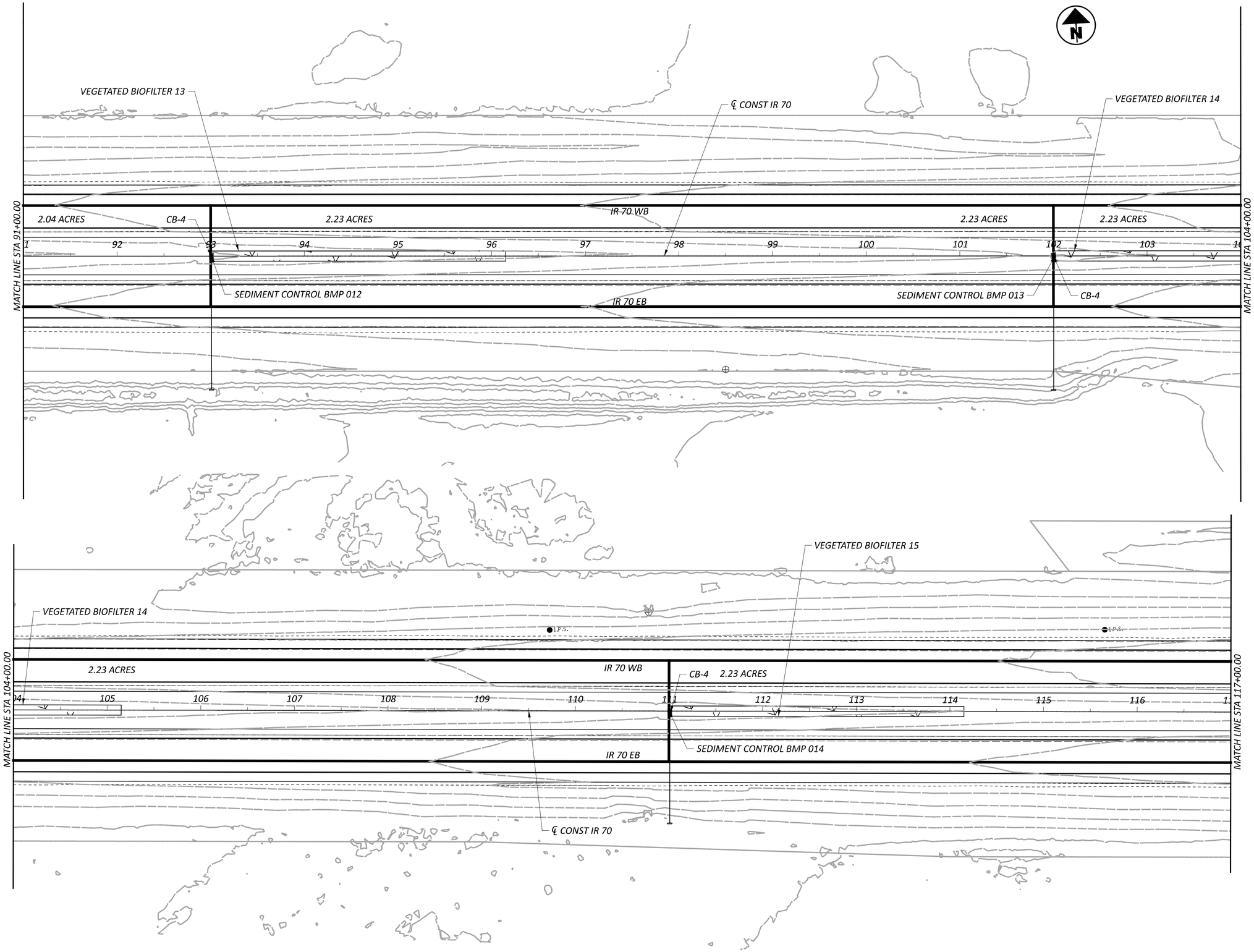

HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 91+00.00 TO STA. 117+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.167
TOTAL	577

FRA-70-00.00

MODEL: Plan 6 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:13 PM USER: AMerrill
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MODEL: Plan 7 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:14 PM USER: AMerrill
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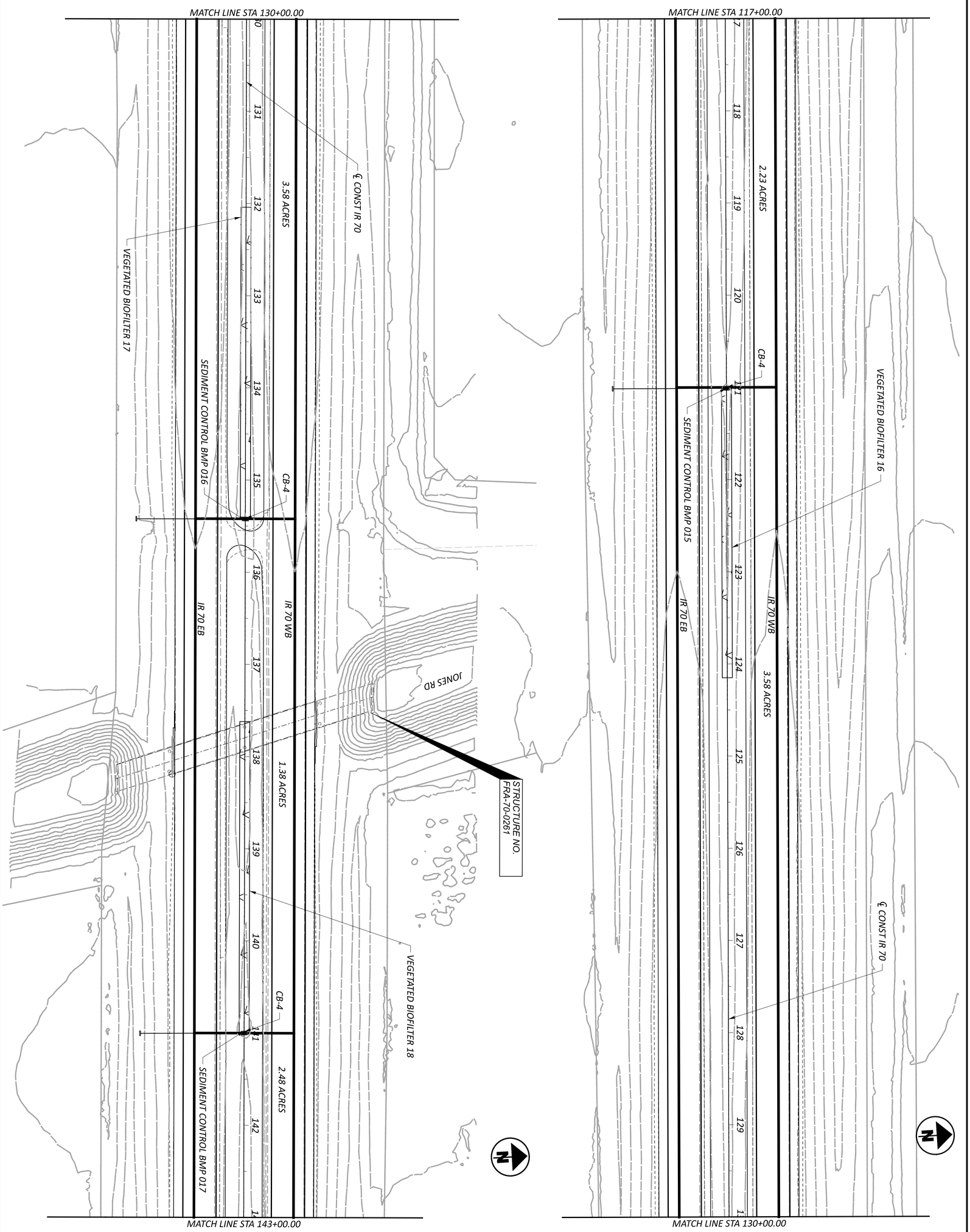
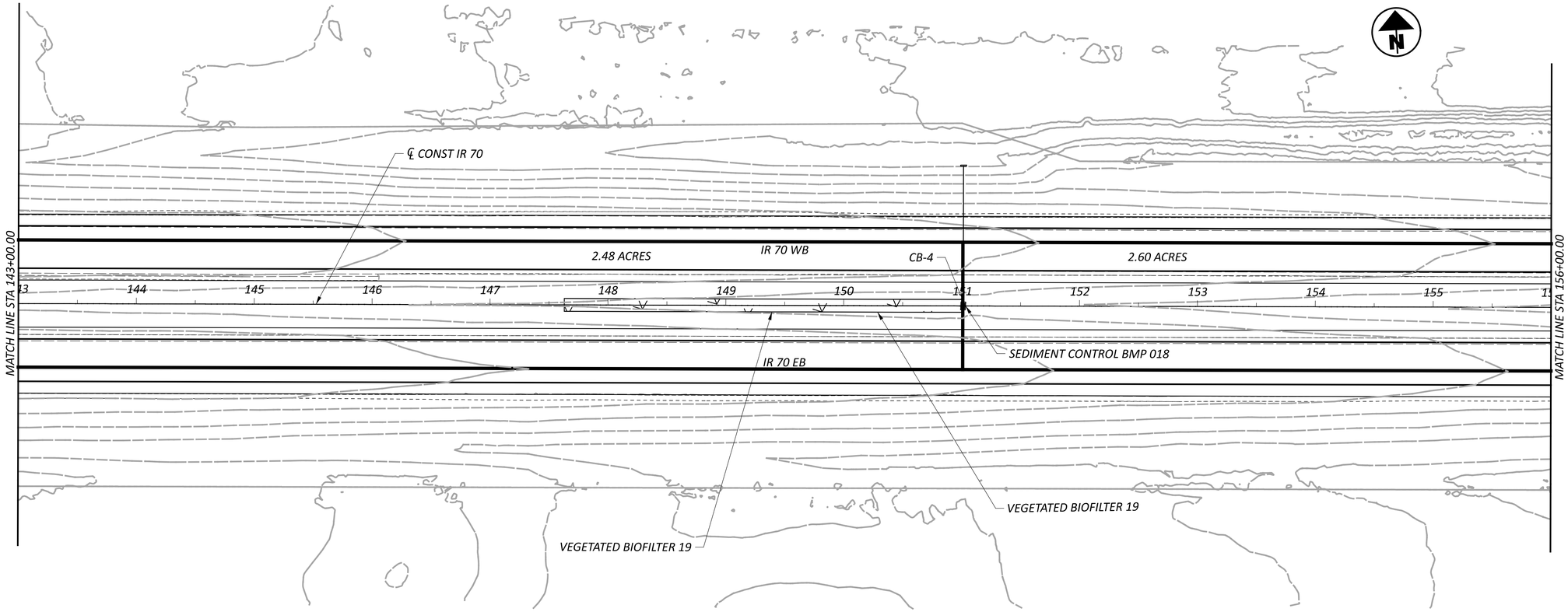
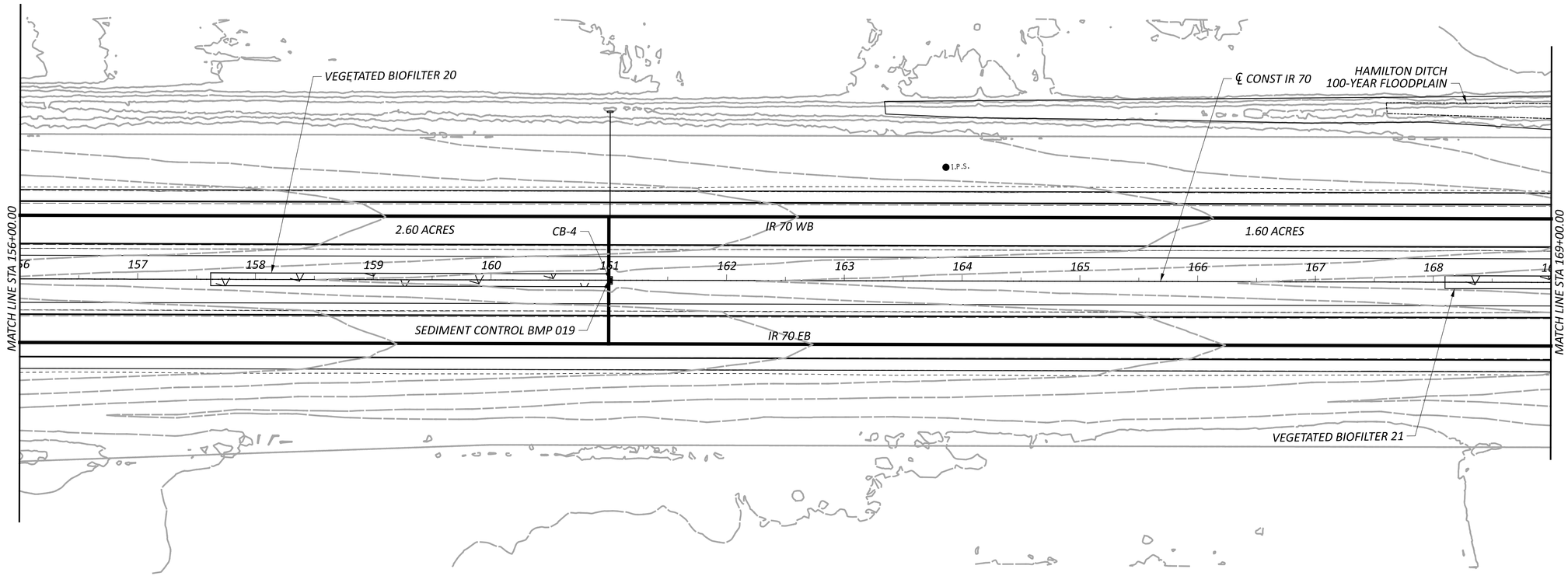


PROJECT SITE PLAN
STA. 117+00.00 TO STA. 143+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.168 TOTAL 577
DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.





HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 143+00.00 TO STA. 169+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.169
TOTAL	577

FRA-70-00.00

MODEL: Plan 8 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:16 PM USER: AMerrill
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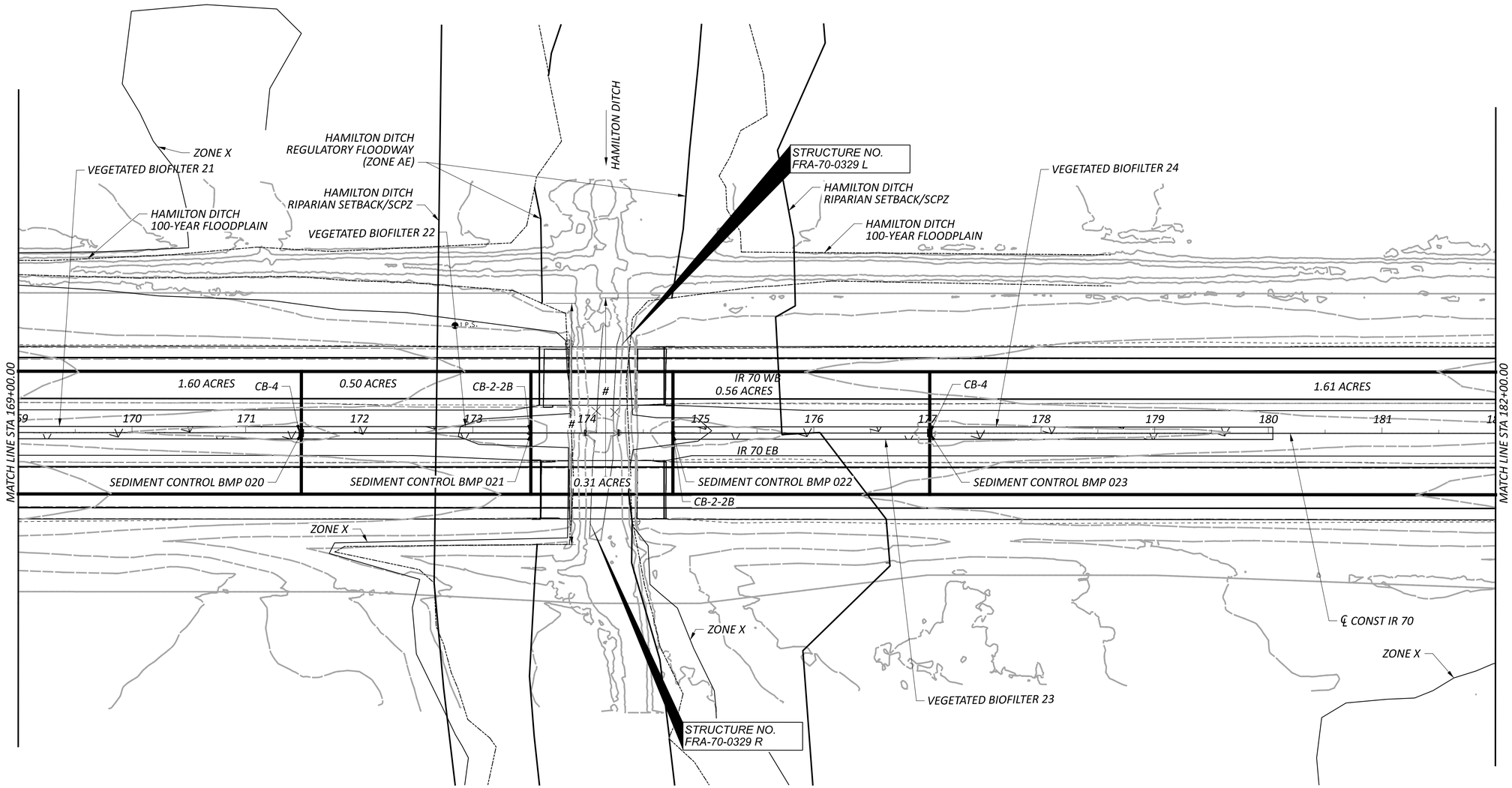
HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 169+00.00 TO STA. 182+00.00



- REGULATORY FLOODWAY AND 100-YEAR FLOODPLAIN OVERLAP

FRA-70-00.00

MODEL: Plan 9 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:17 PM USER: AMerrill
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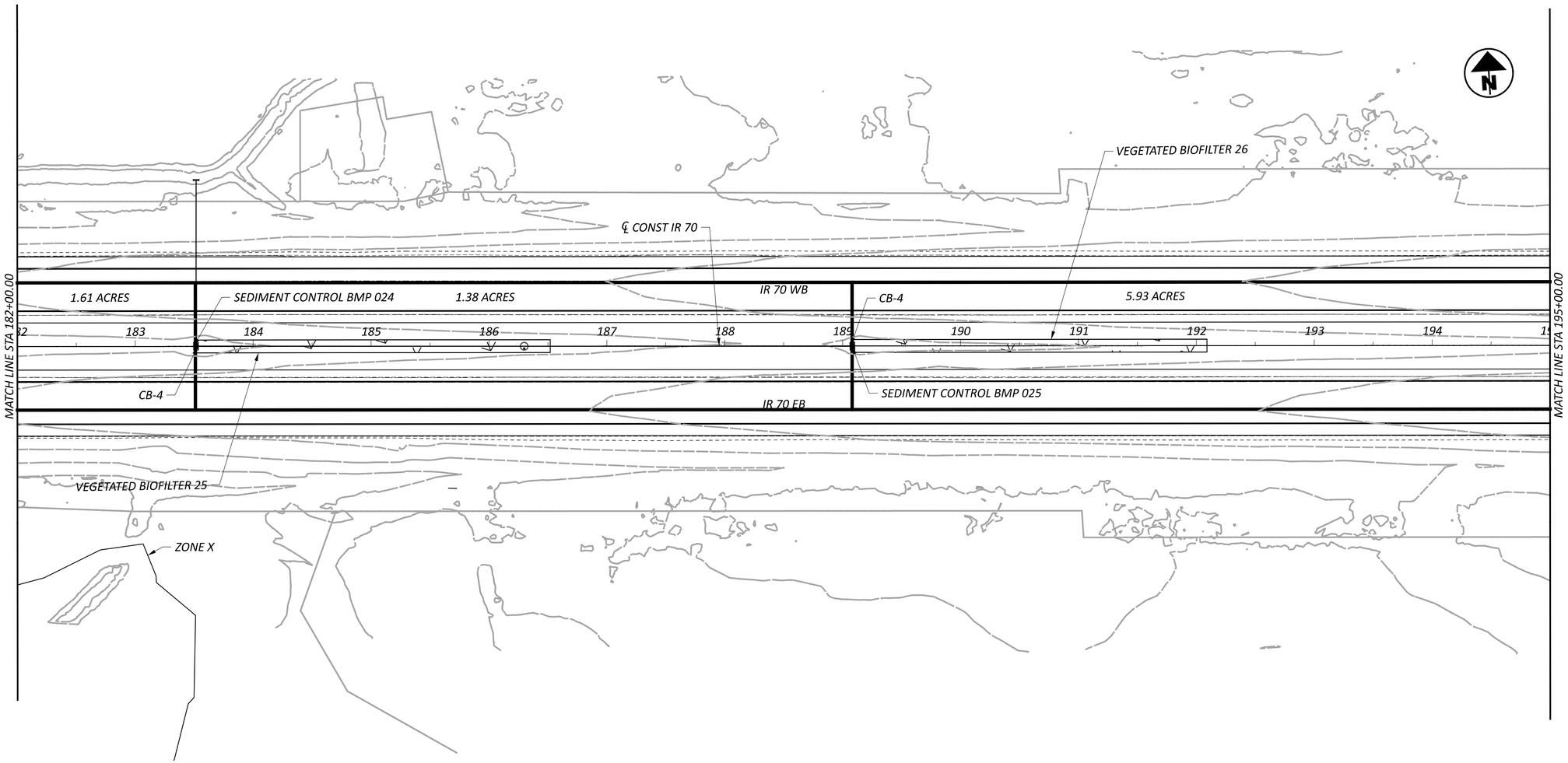
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	DMS
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.170
TOTAL	577



HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 182+00.00 TO STA. 195+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.171 TOTAL 577

FRA-70-00.00

MODEL: Plan 10 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:18 PM USER: AMerrill
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FRA-70-00.00

MODEL: Plan 11 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:19 PM USER: AMerrill
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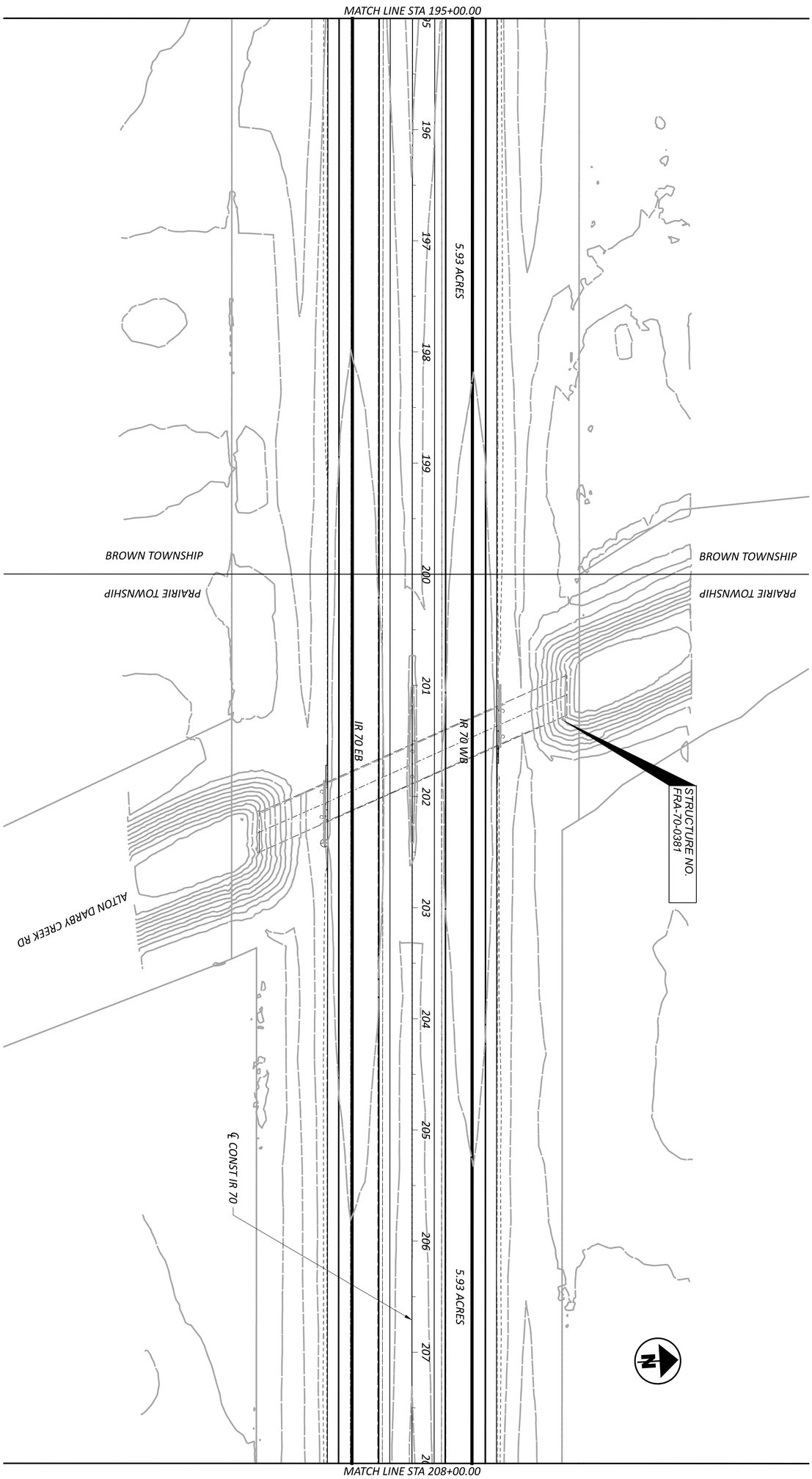
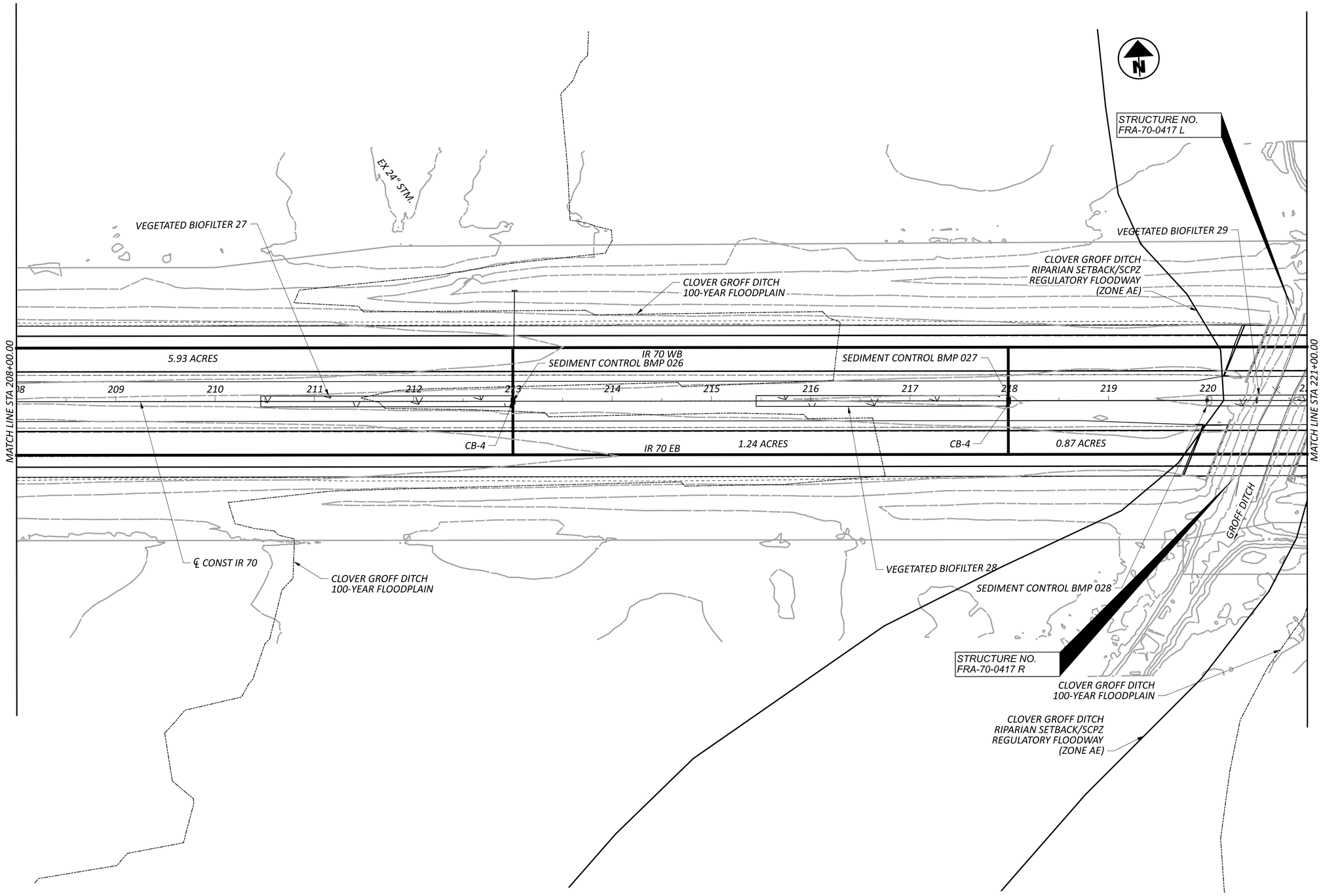


SHEET P.172	TOTAL 577	PROJECT ID 116949	REVIEWER AJL 08/23/24	DESIGNER DMS	DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.

PROJECT SITE PLAN
STA. 195+00.00 TO STA. 208+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100



PROJECT SITE PLAN
STA. 208+00.00 TO STA. 221+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.173 TOTAL 577

FRA-70-00.00

MODEL: Plan 12 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:20 PM USER: AMerrill
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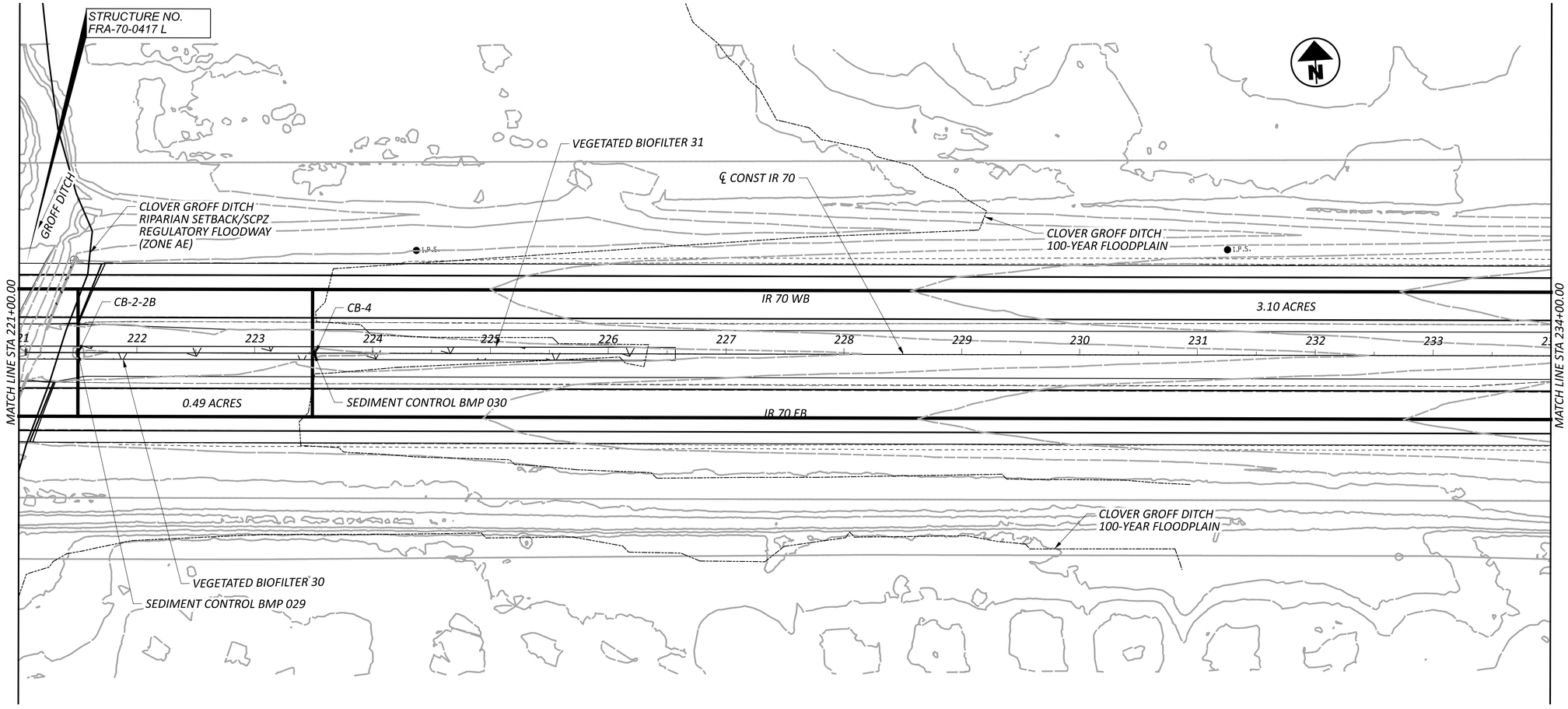

HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 221+00.00 TO STA. 234+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.174 TOTAL 577

FRA-70-00.00

MODEL: Plan 13 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:21 PM USER: AMerrill
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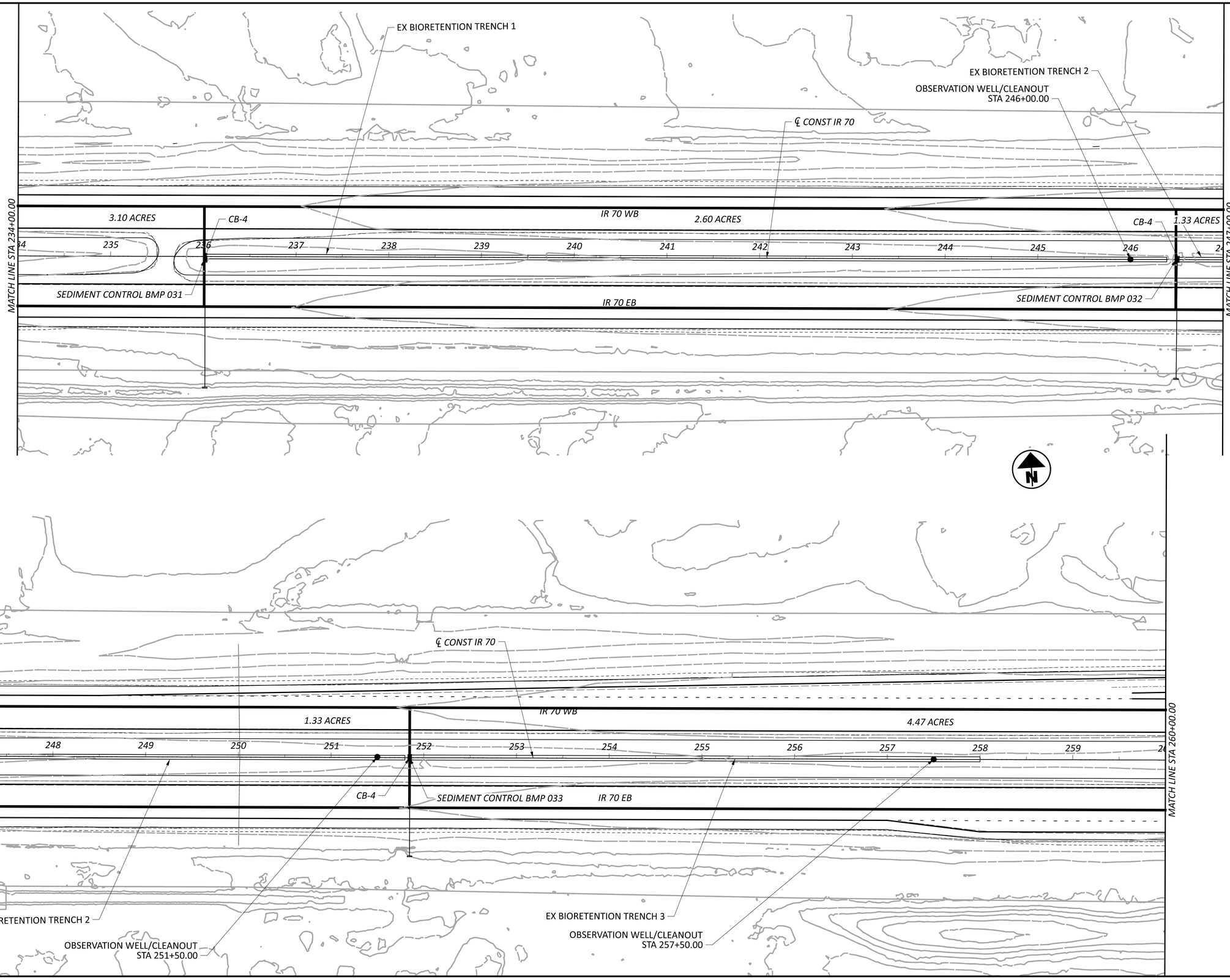

HORIZONTAL SCALE IN FEET
0 25 50 100

PROJECT SITE PLAN
STA. 234+00.00 TO STA. 260+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.175 TOTAL 577

FRA-70-00.00

MODEL: Plan 14 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/21/2025 TIME: 5:50:01 PM USER: AMerrill
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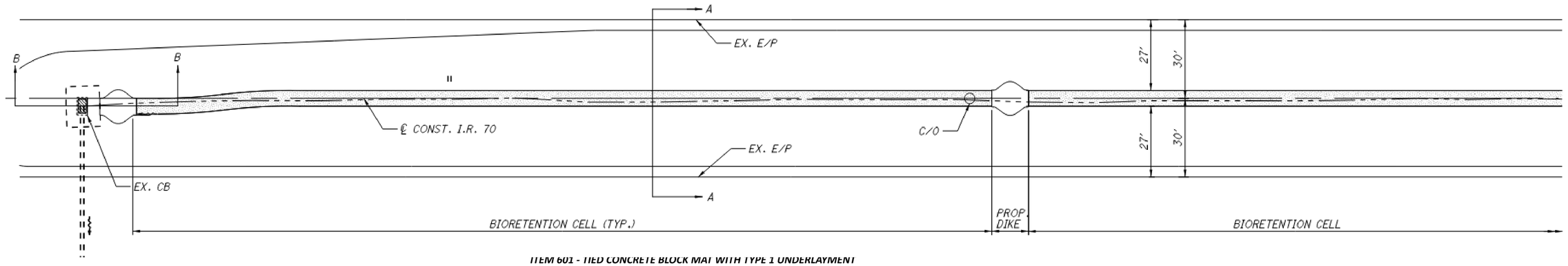


HORIZONTAL SCALE IN FEET
0 25 50 100

ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT

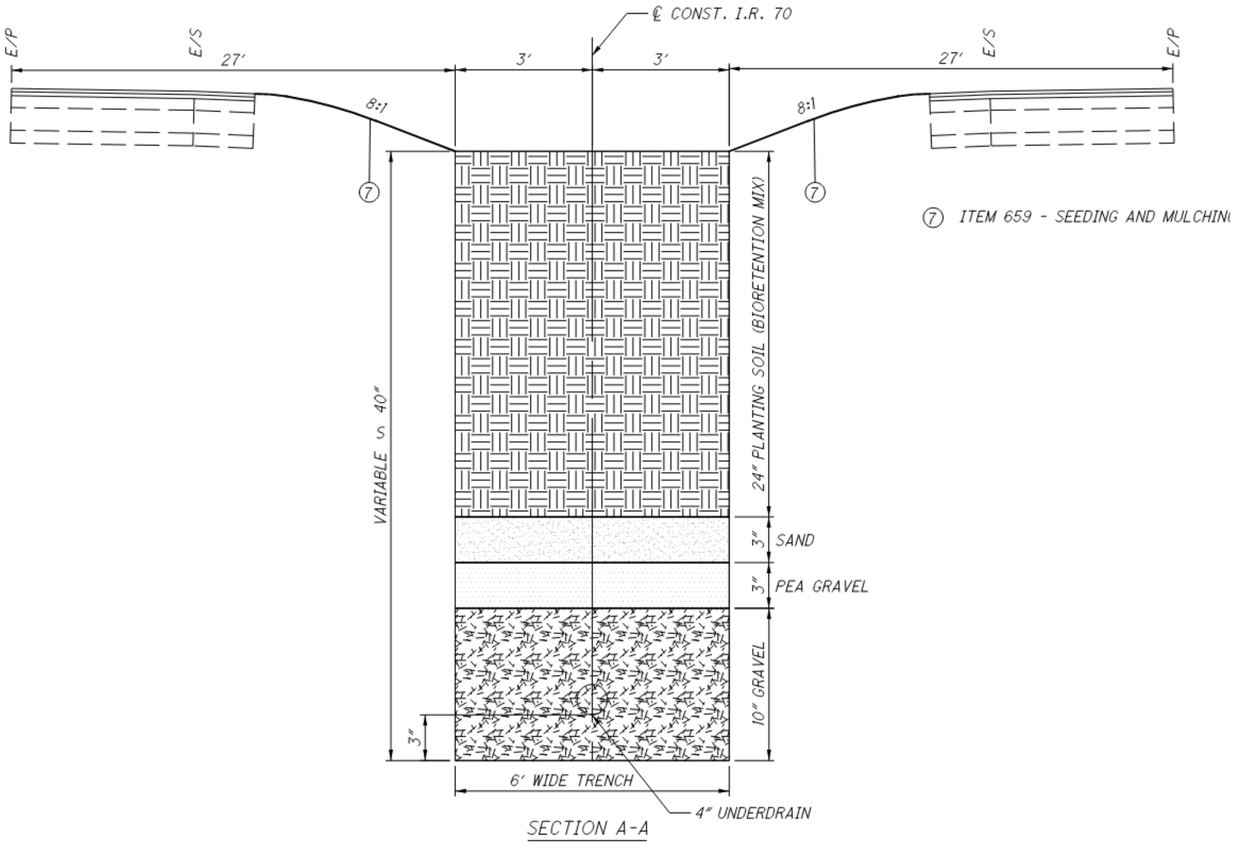
PROPOSED DIKES SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET AND PER ODOT CMS 712.12.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT:

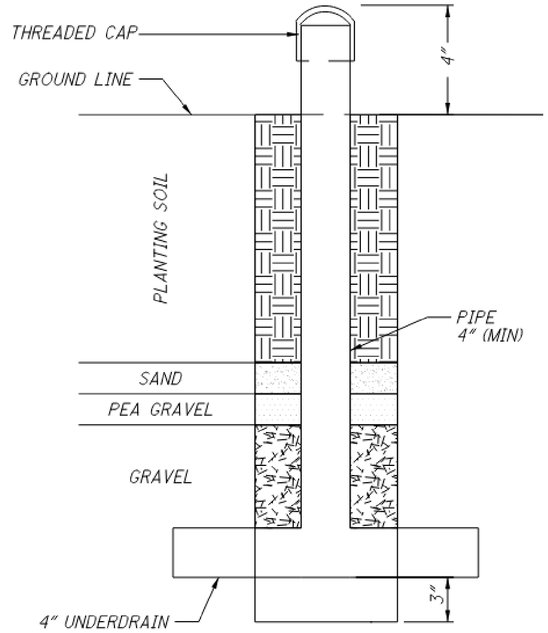
ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT 66 SY

PAYMENT FOR THE ABOVE WORK SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK.

PLANTING MIX
5 SAND - 2 TOPSOIL - 1 COMPOST
SAND = CMS FINE AGGREGATE AS PER 703
PEA GRAVEL = #78 STONE
GRAVEL = #57



SECTION A-A

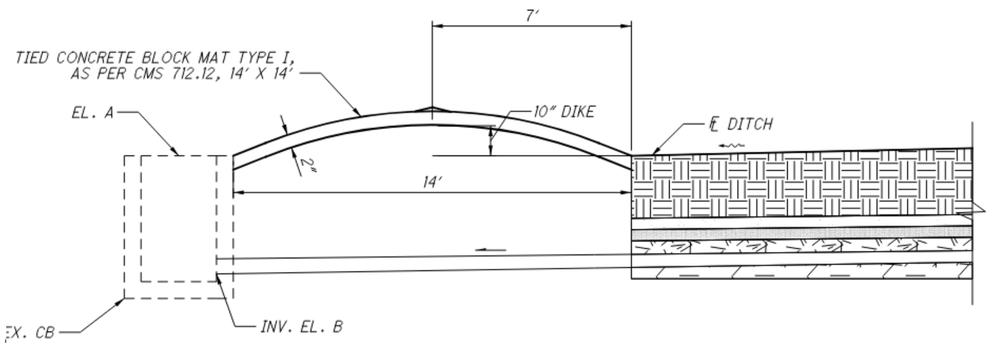


OBSERVATION WELL/CLEANOUT

NO SCALE

BIORETENTION CELL UNDERDRAIN ELEVATION TABLE

CATCH BASIN	STA./ OFFSET	ELEV. A	ELEV. B
D-38	236+01, 3' RT.	931.84	928.5
D-39	246+49, CL	934.92	931.6
D-40	251+83, CL	936.60	933.3



SECTION B-B

PROJECT SITE PLAN
BIORETENTION DITCH DETAILS

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER DMS
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.176 TOTAL 577

FRA-70-00.00

MODEL: Plan 15 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/27/2024 TIME: 7:39:17 AM USER: dsprinkle
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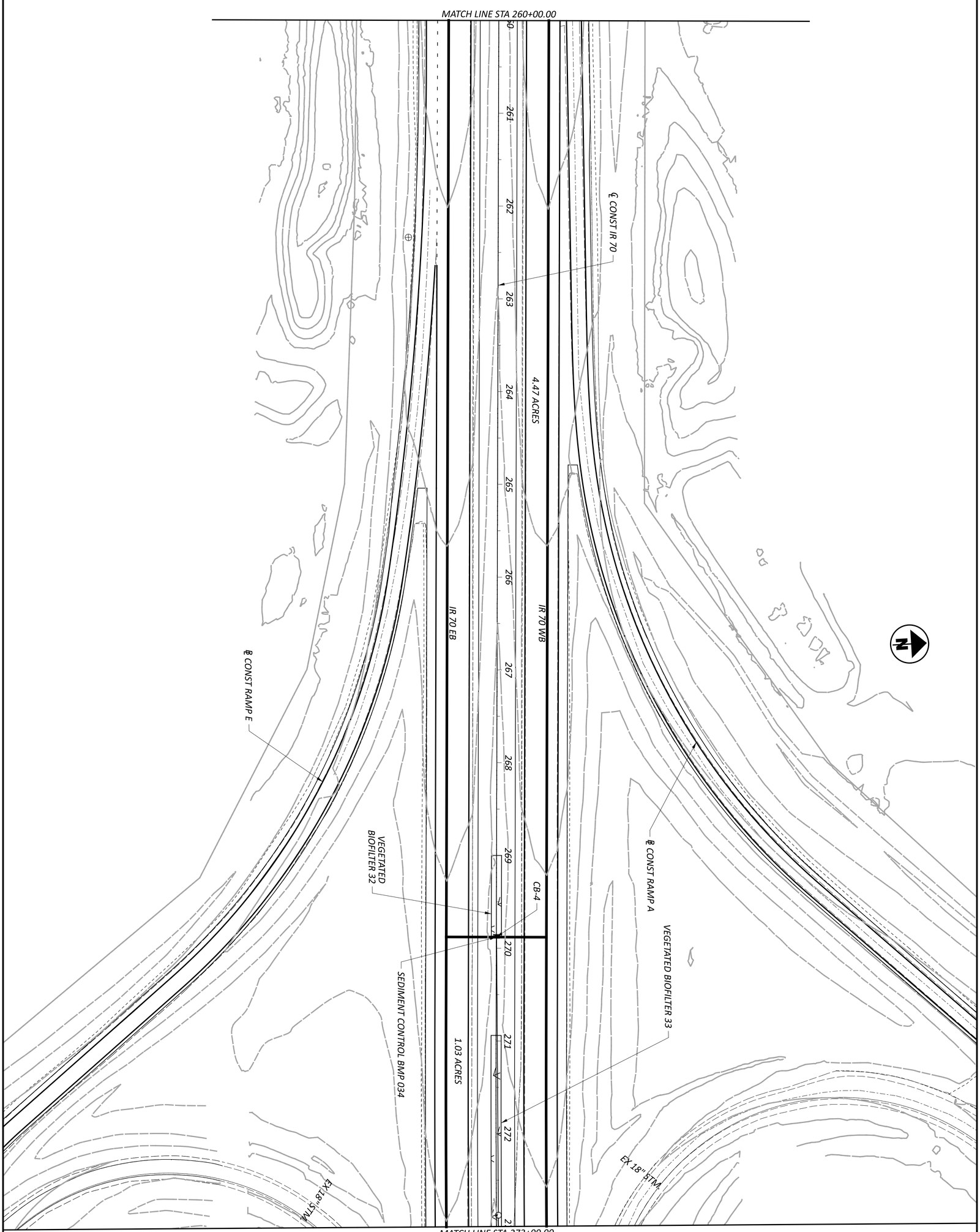

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.177	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

PROJECT SITE PLAN
STA. 260+00.00 TO STA. 273+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

MODEL: Plan 17 - 50 SCALE [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:25 PM USER: AMerrill
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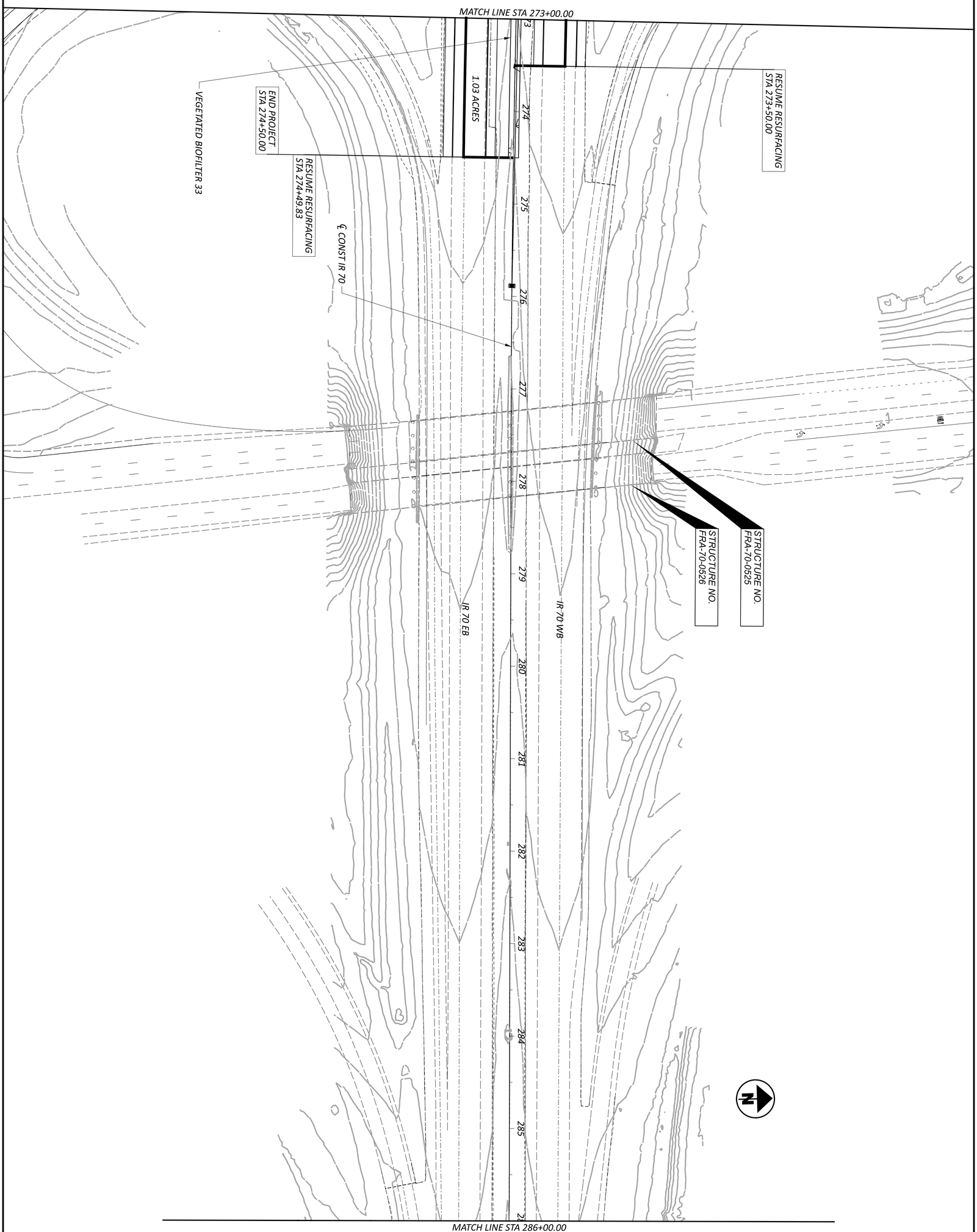

PROJECT SITE PLAN
STA. 273+00.00 TO STA. 286+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.178	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

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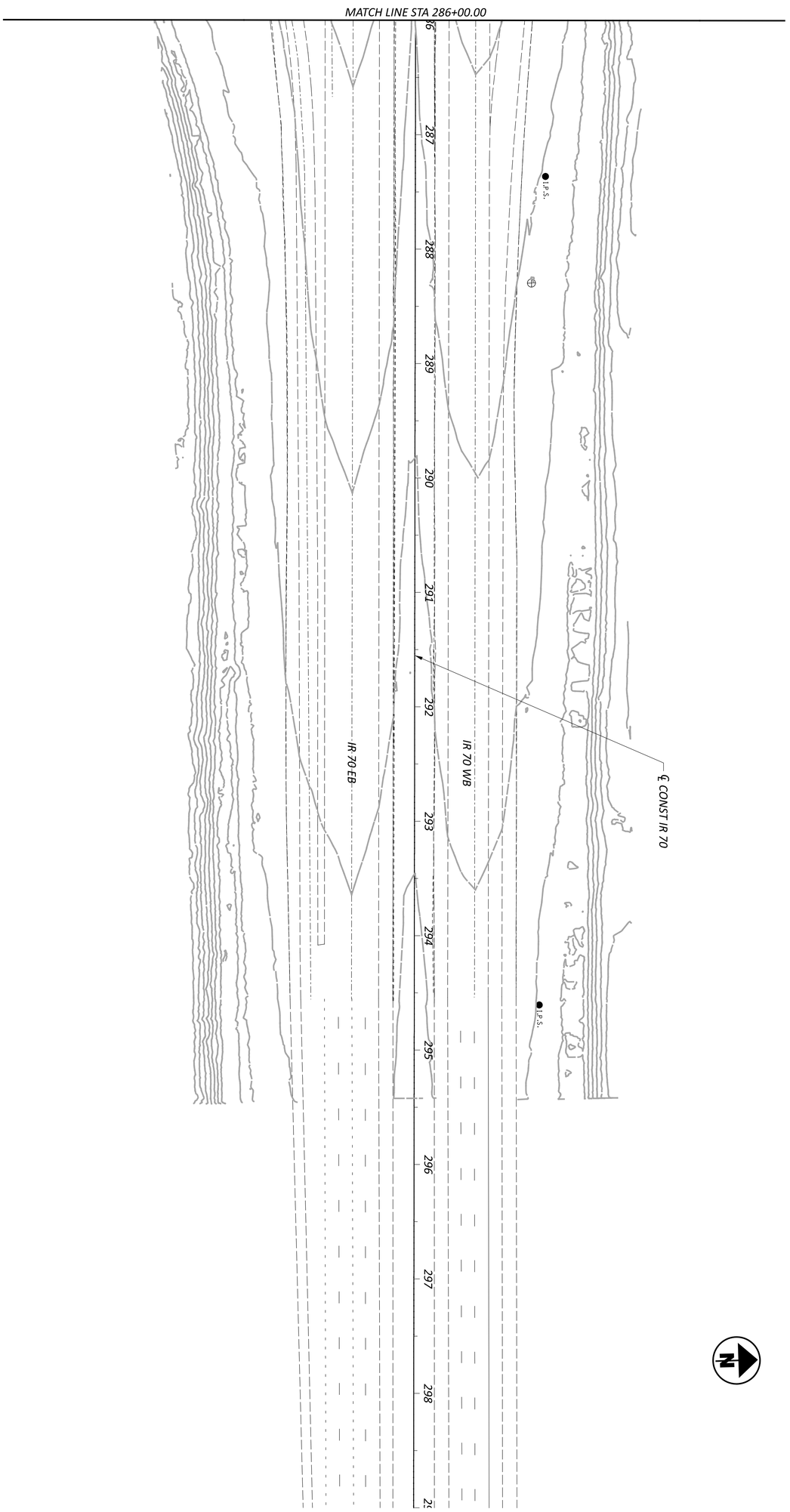
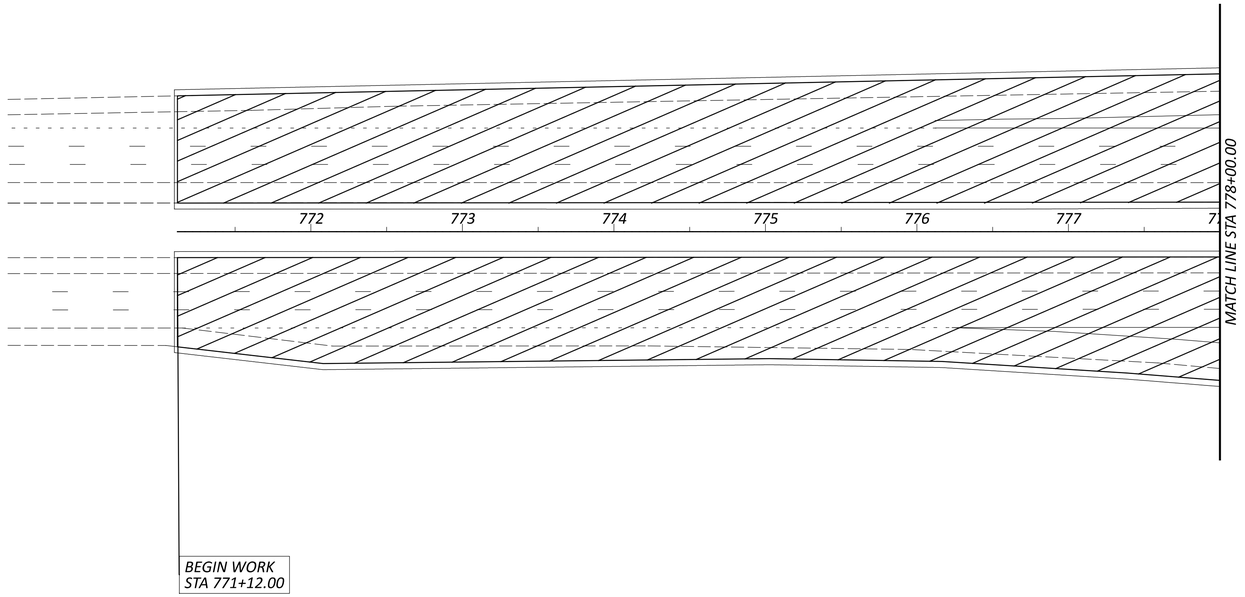


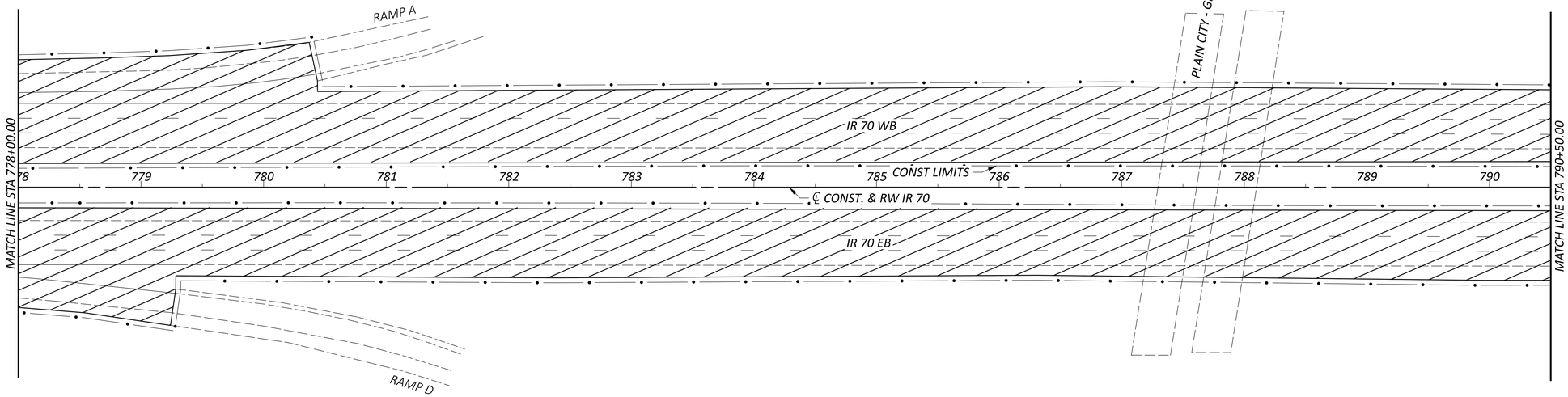
DESIGNER	REVIEWER	PROJECT ID	SHEET	TOTAL
DMS	AJL 08/23/24	116949	P.179	577

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

PROJECT SITE PLAN
STA. 286+00.00 TO STA. 299+00.00

HORIZONTAL SCALE IN FEET
0 50
25 100





LEGEND

MILL AND FILL

HORIZONTAL SCALE IN FEET
0 25 50 100

PLANING AND RESURFACING - IR 70
STA 778+00.00 TO STA 790+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER JJD
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.180 TOTAL 577

FRA-70-00.00

MODEL: 116949_GP101 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:30 PM USER: AMerrill
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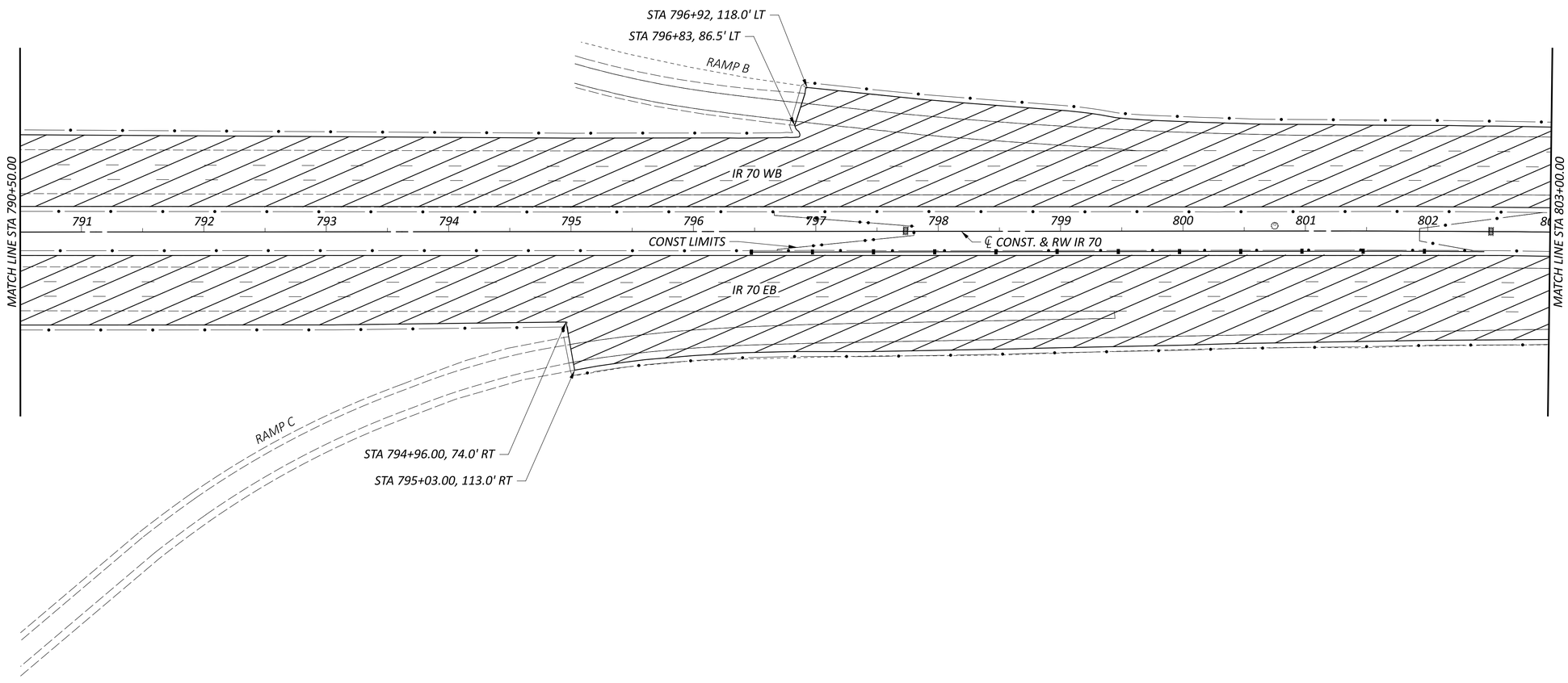

LEGEND

MILL AND FILL

HORIZONTAL SCALE IN FEET
0 25 50 100

PLANING AND RESURFACING - IR 70
STA 790+50.00 TO STA 803+00.00

FRA-70-00.00

MODEL: 116949_GP102 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:32 PM USER: AMerrill
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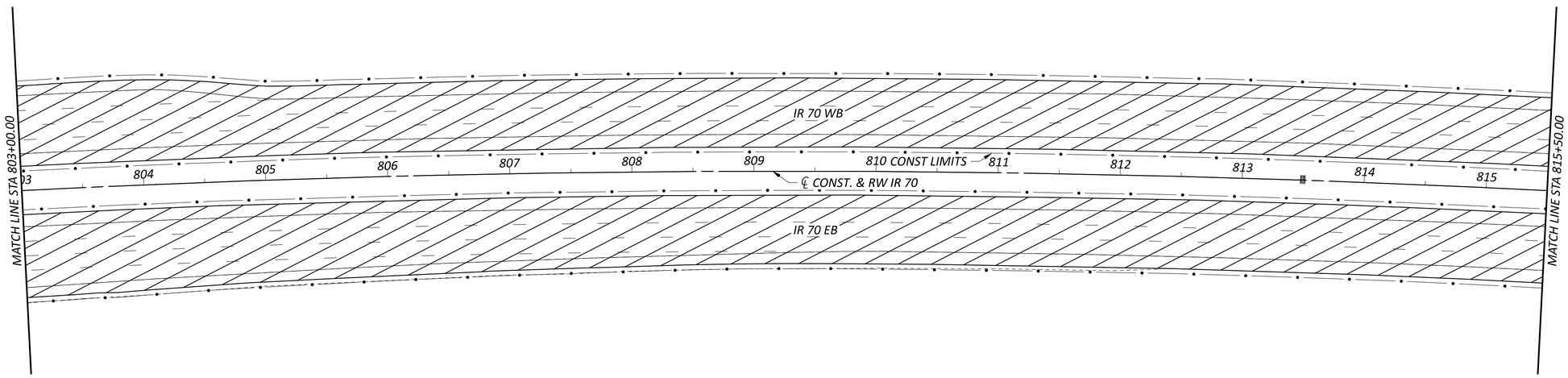
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.181 | TOTAL 577



LEGEND

MILL AND FILL

HORIZONTAL SCALE IN FEET
0 25 50 100

PLANING AND RESURFACING - IR 70
STA 803+00.00 TO STA 815+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.182 TOTAL 577

FRA-70-00.00

MODEL: 116949_GP103 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:33 PM USER: AMerrill
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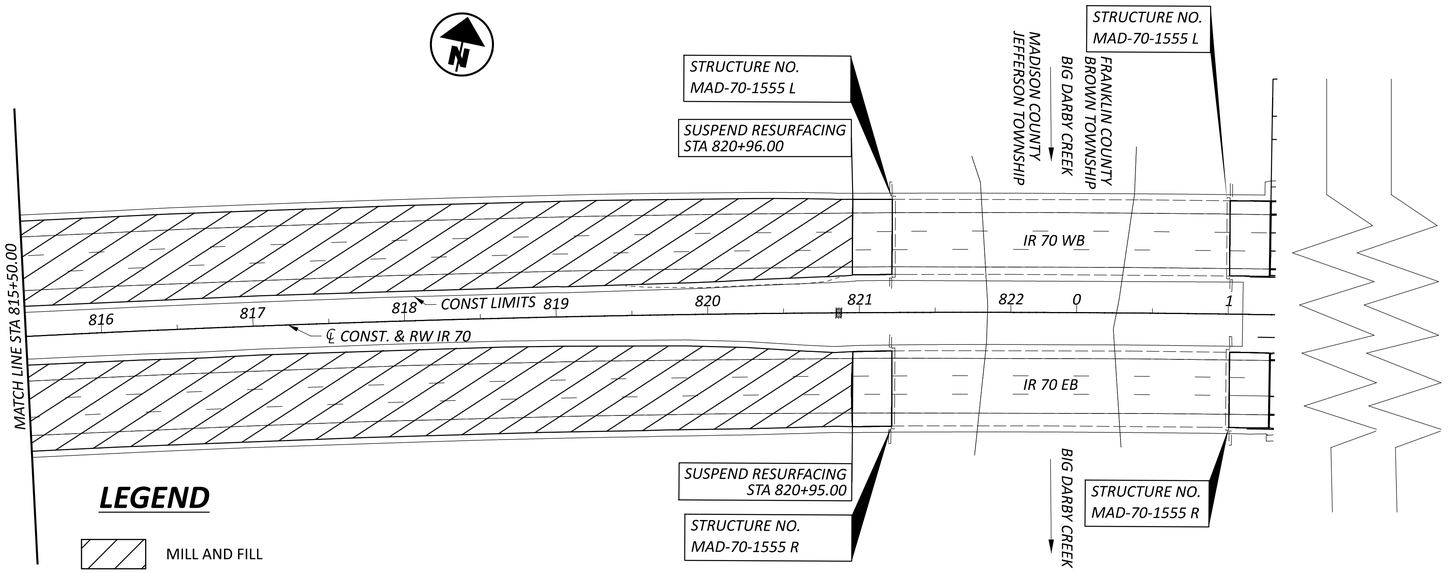

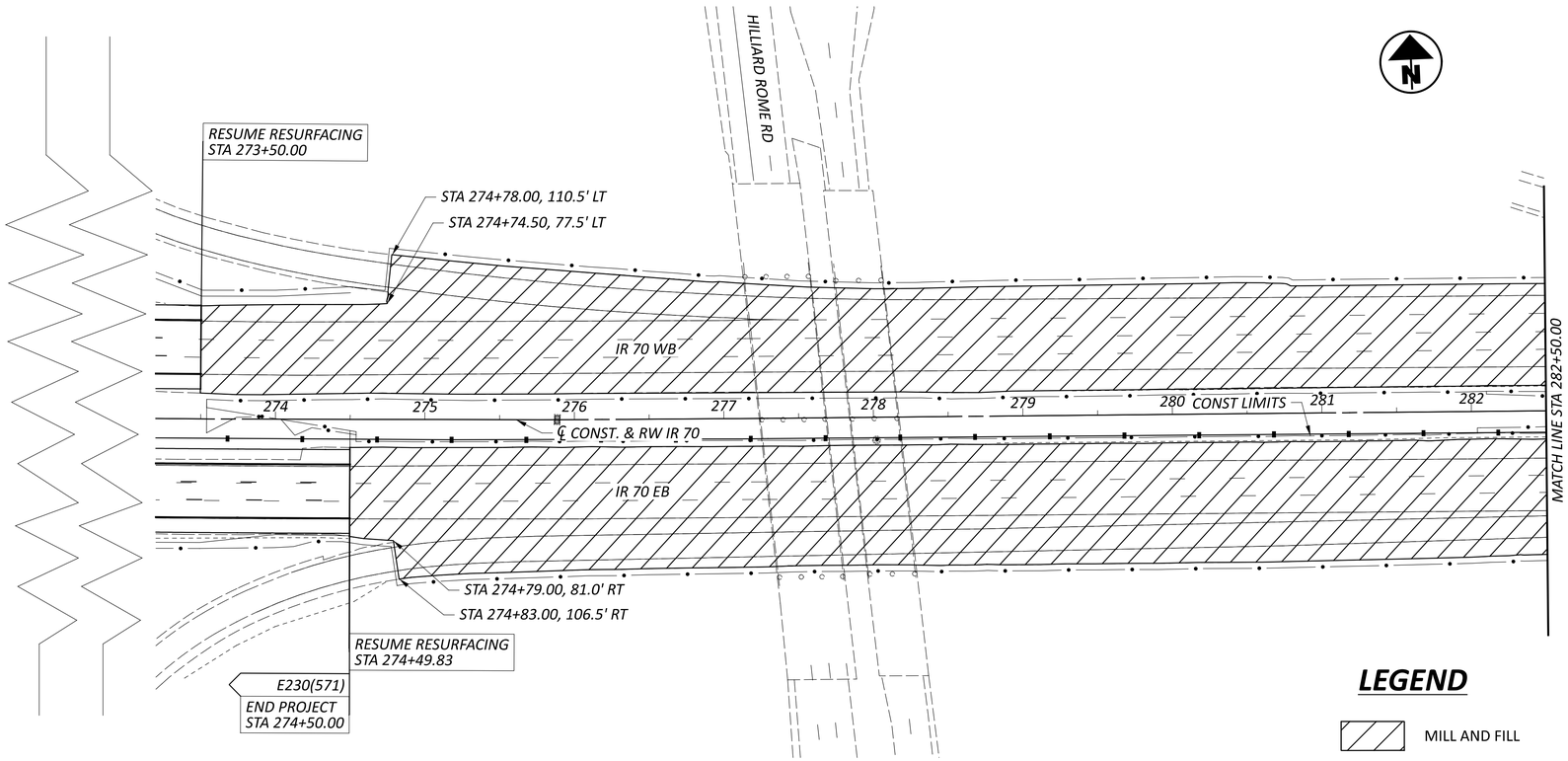

HORIZONTAL SCALE IN FEET
0 25 50 100

PLANING AND RESURFACING - IR 70
STA 815+50.00 TO STA 5+56.70 & STA 270+00.00 TO STA 282+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.183
TOTAL	577

FRA-70-00.00

MODEL: CLP_I71 - Plan S PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:34 PM USER: AMerrill
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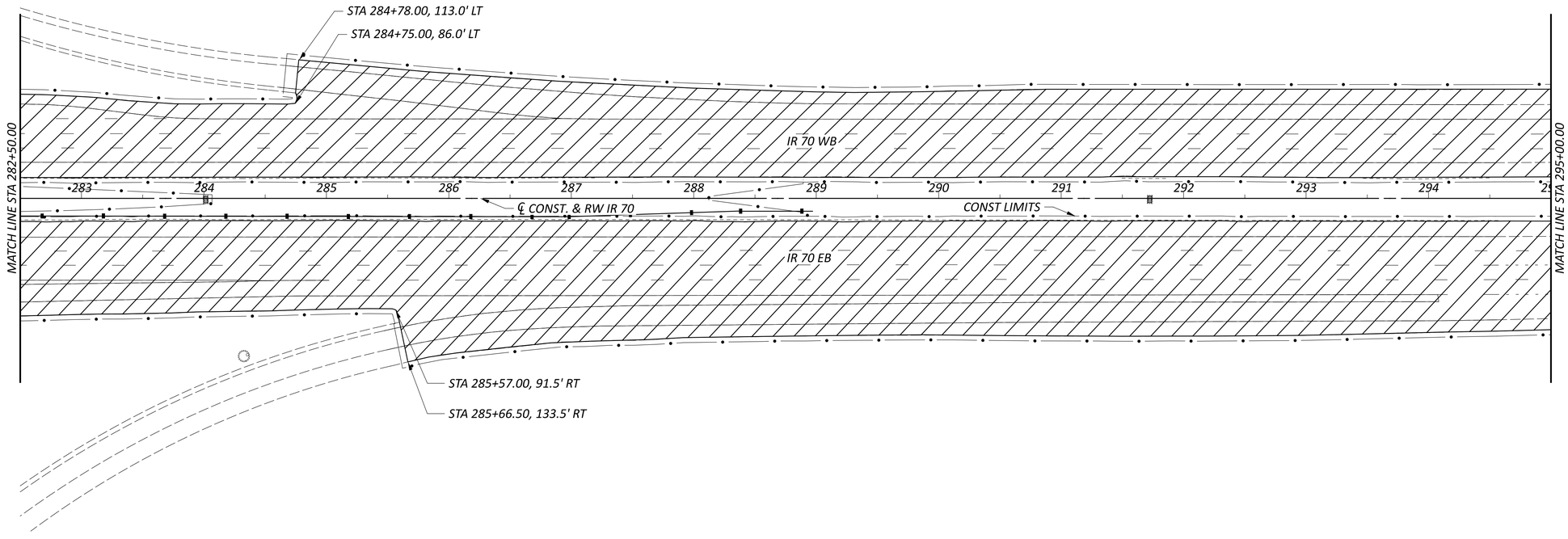

LEGEND

MILL AND FILL

HORIZONTAL SCALE IN FEET
0 25 50 100

PLANING AND RESURFACING - IR 70
STA 282+50.00 TO STA 295+00.00

DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.184
TOTAL	577

FRA-70-00.00

MODEL: CLP_I71 - Plan 6 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:36 PM USER: AMerrill
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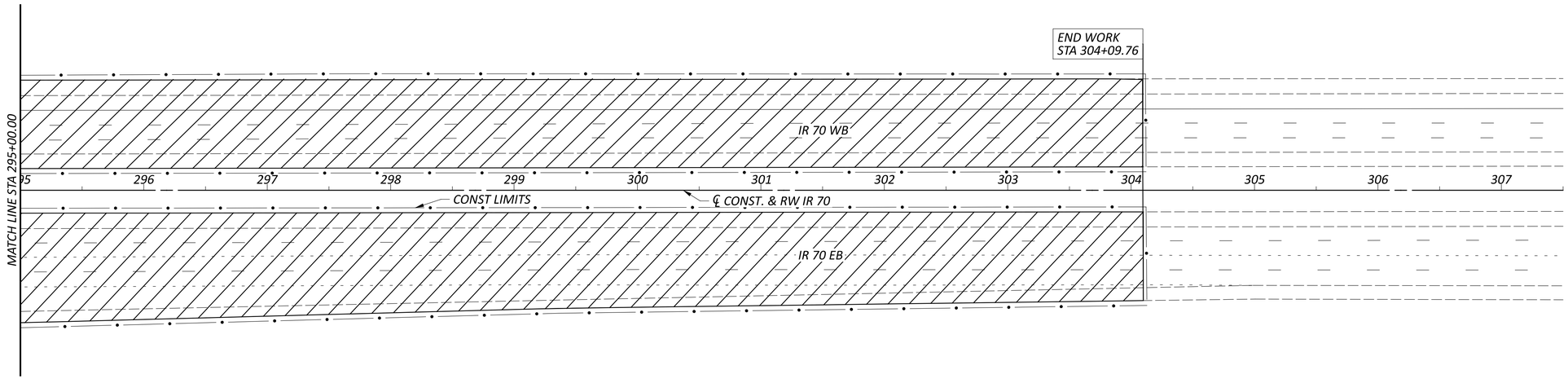

LEGEND

MILL AND FILL

HORIZONTAL SCALE IN FEET
0 25 50 100

PLANING AND RESURFACING - IR 70
STA 295+00.00 TO STA 307+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.185 TOTAL 577

FRA-70-00.00

MODEL: CLP_I71 - Plan 7 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:02:38 PM USER: AMerrill
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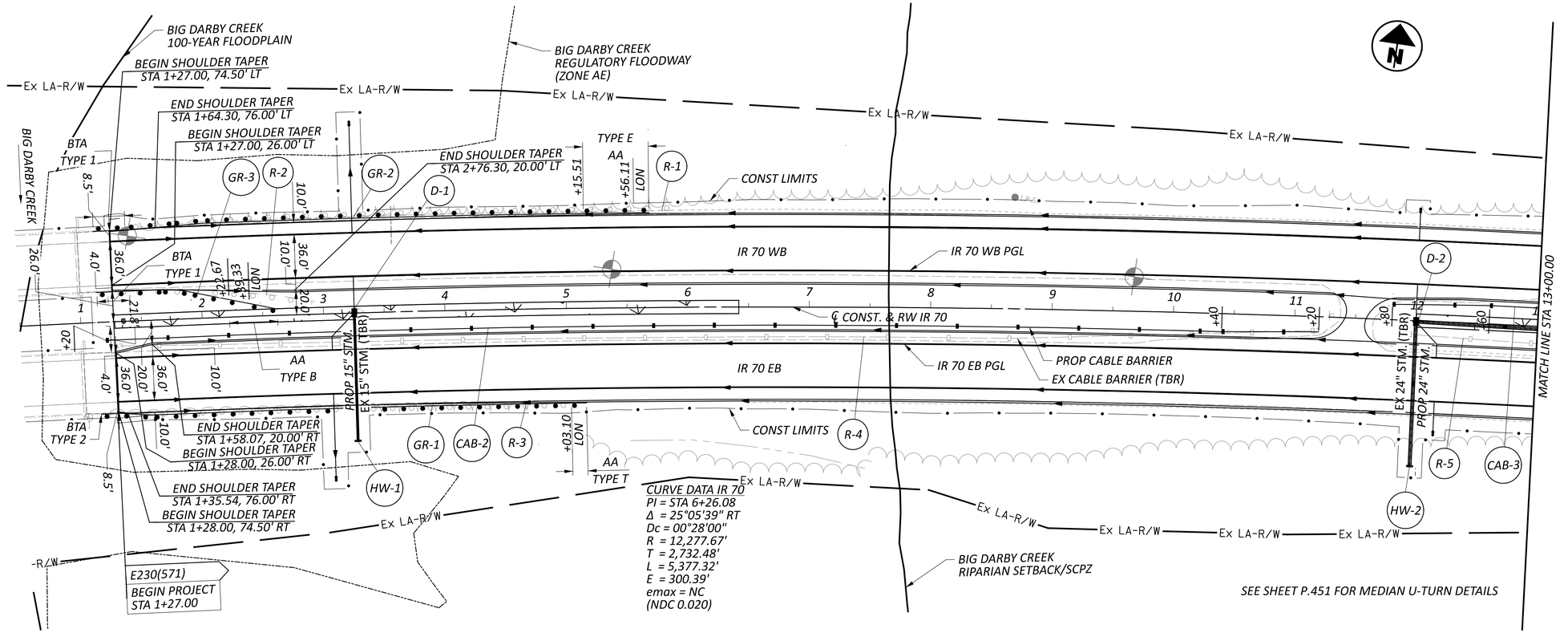

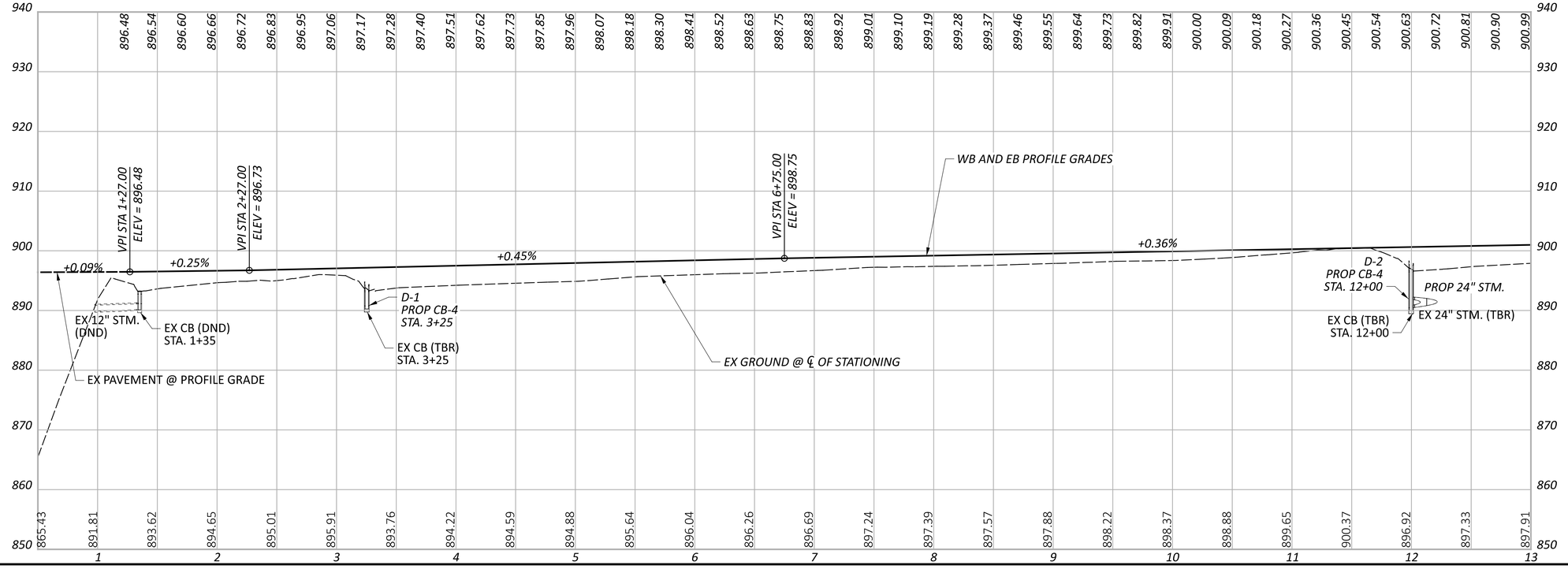

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 00+50.00 TO STA 13+00.00

DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.186 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:03:13 PM USER: AMerrill
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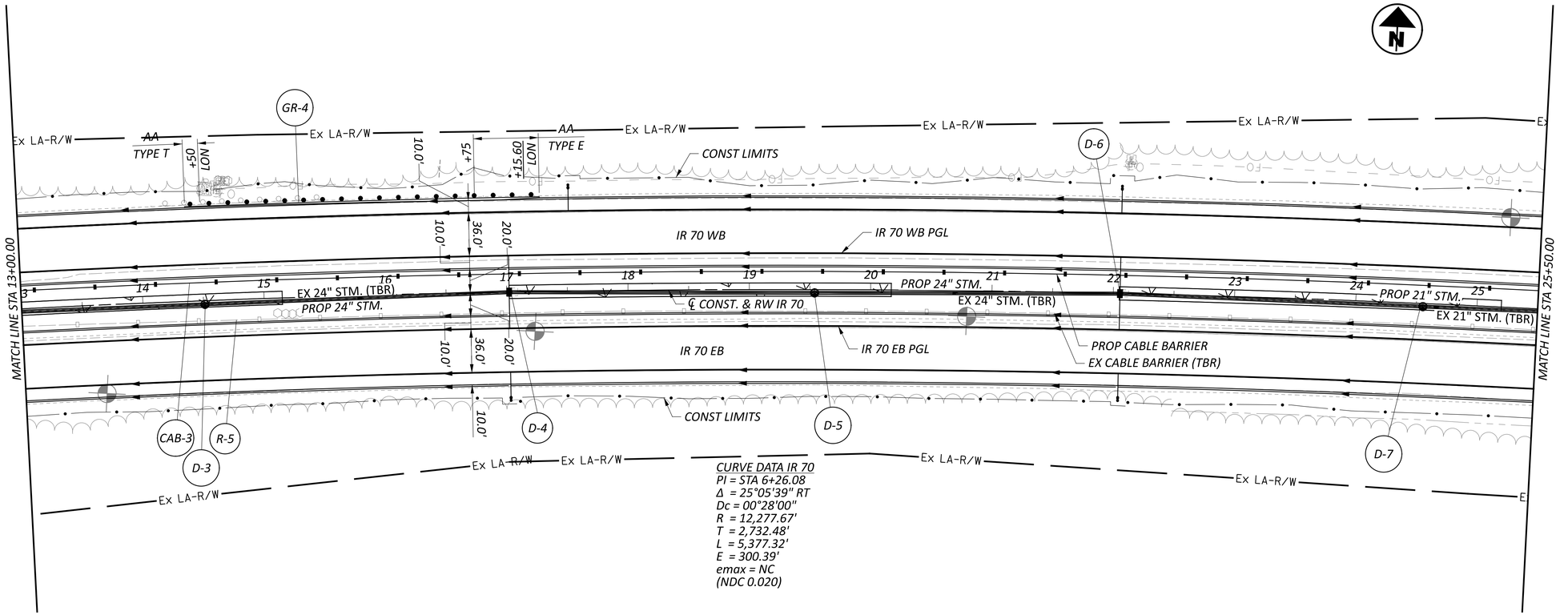

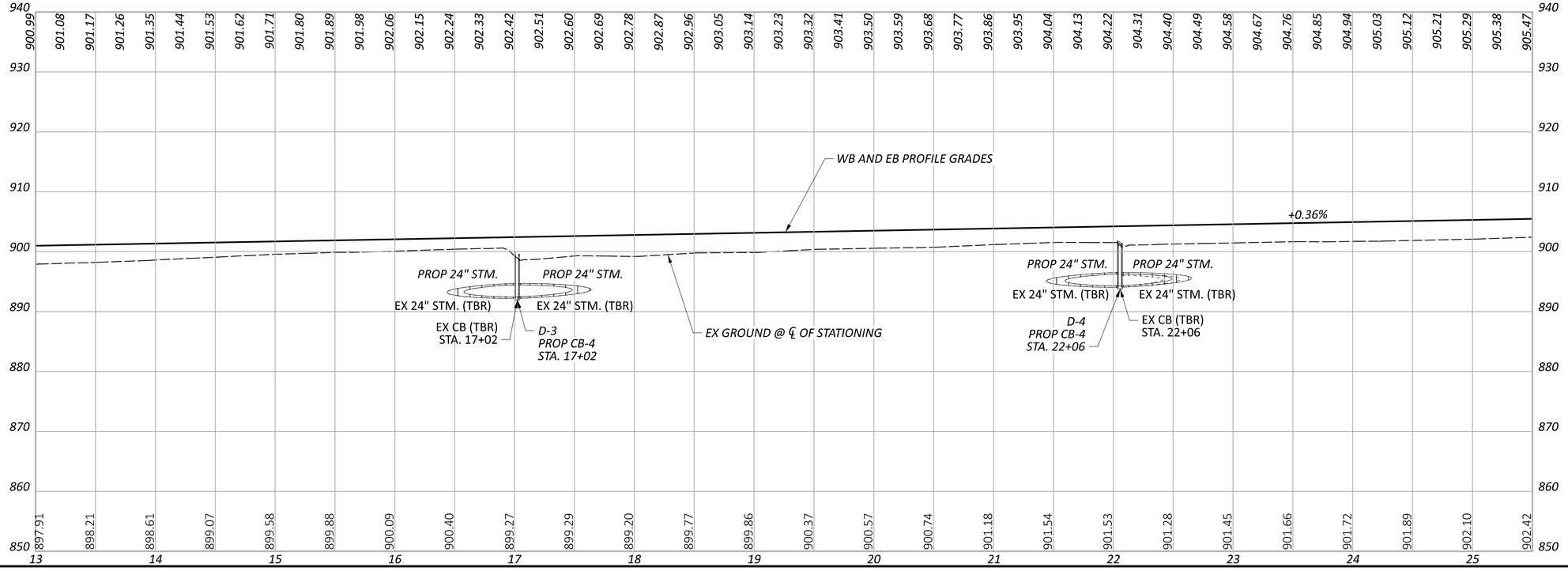

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 13+00.00 TO STA 25+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.187
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-1 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:03:57 PM USER: AMerrill
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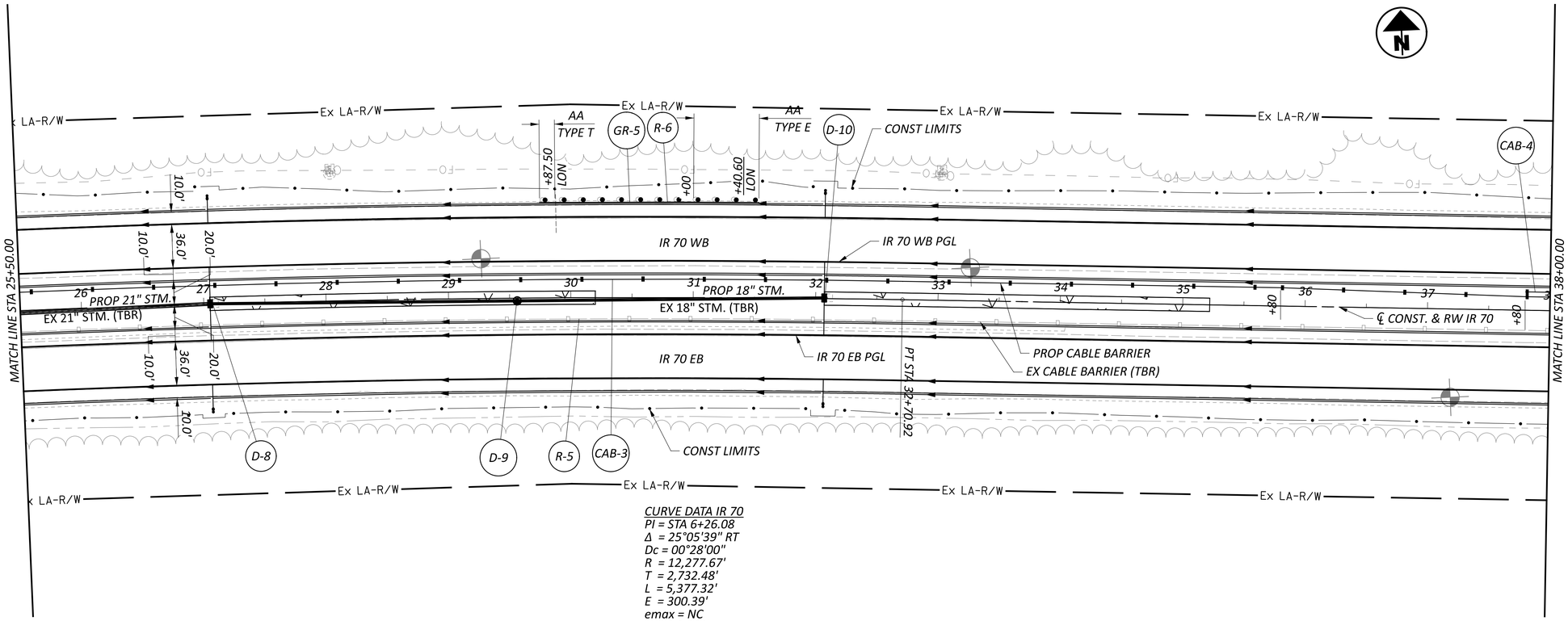

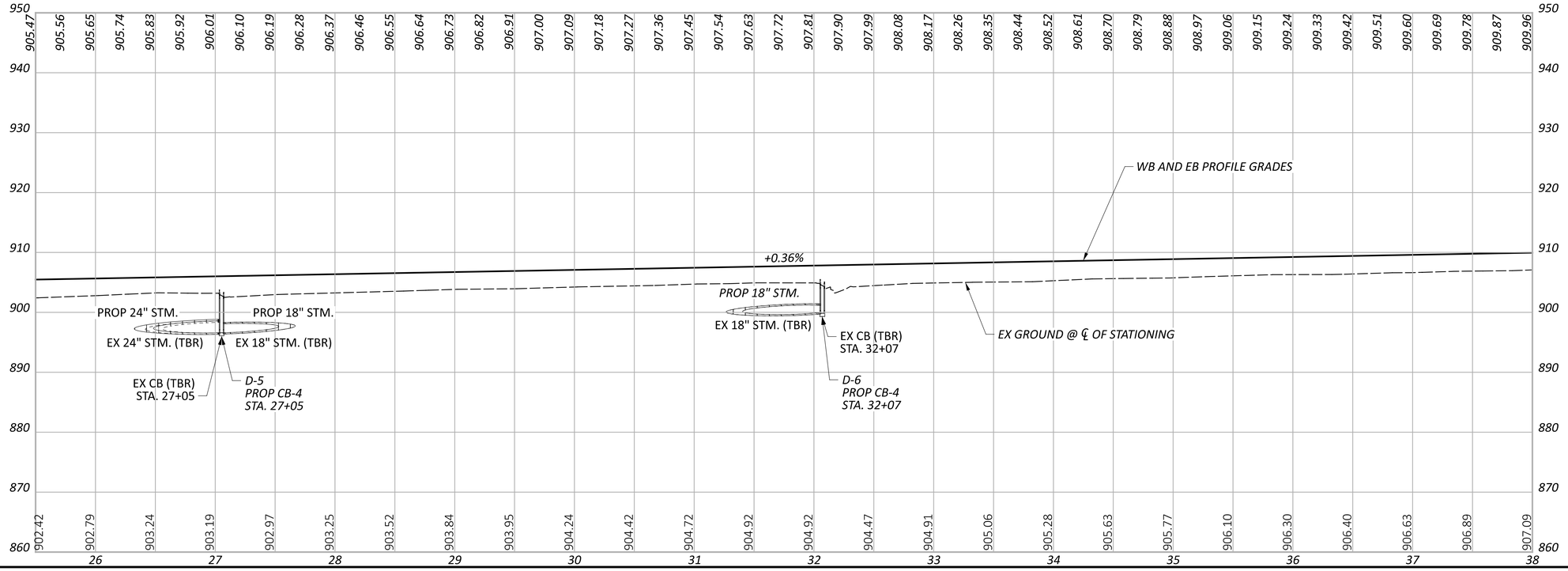

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 25+50.00 TO STA 38+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER JJD
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.188 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-2 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:07 PM USER: AMerrill
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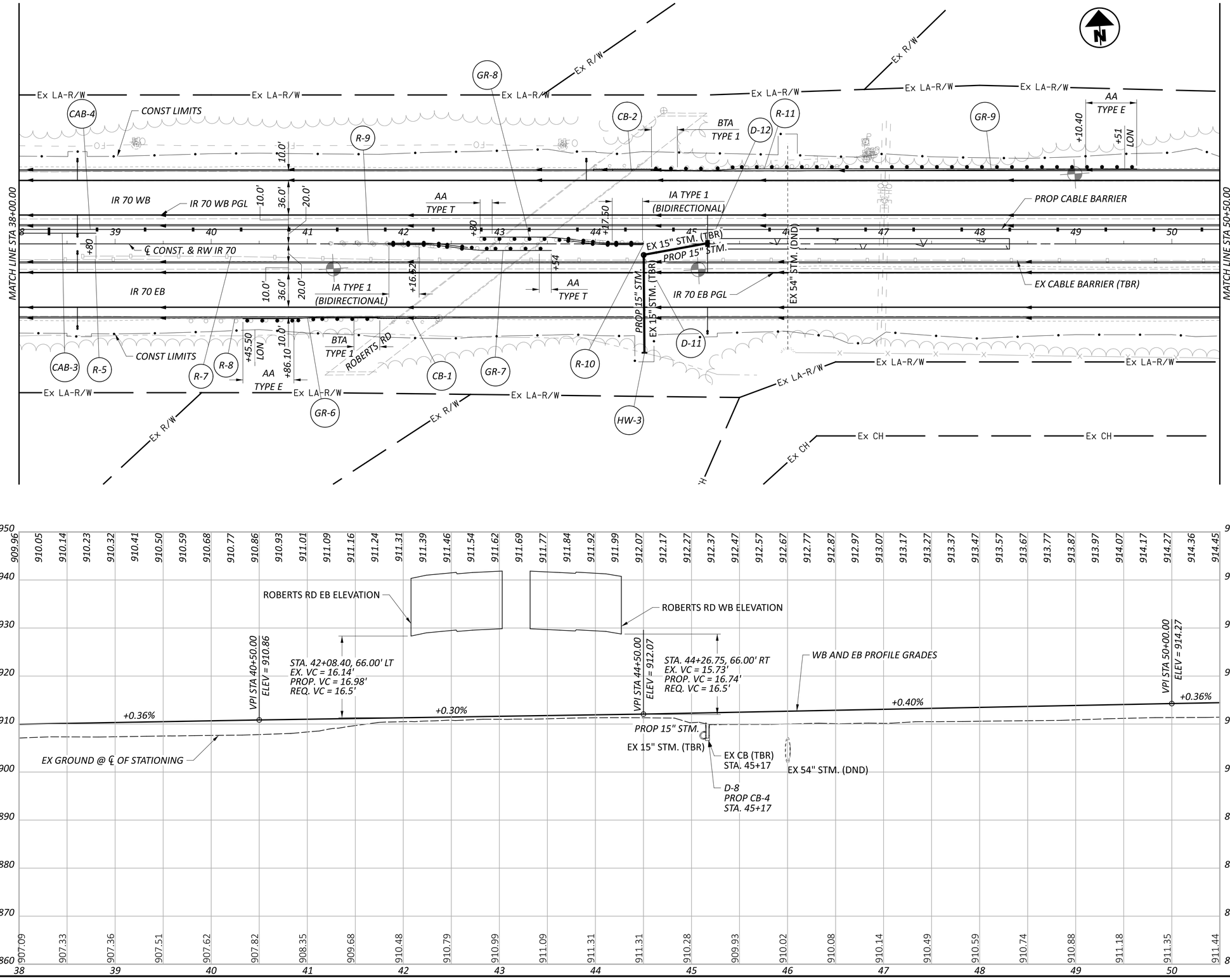

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 38+00.00 TO STA 50+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER JJD
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.189 TOTAL 577

FRA-70-00.00

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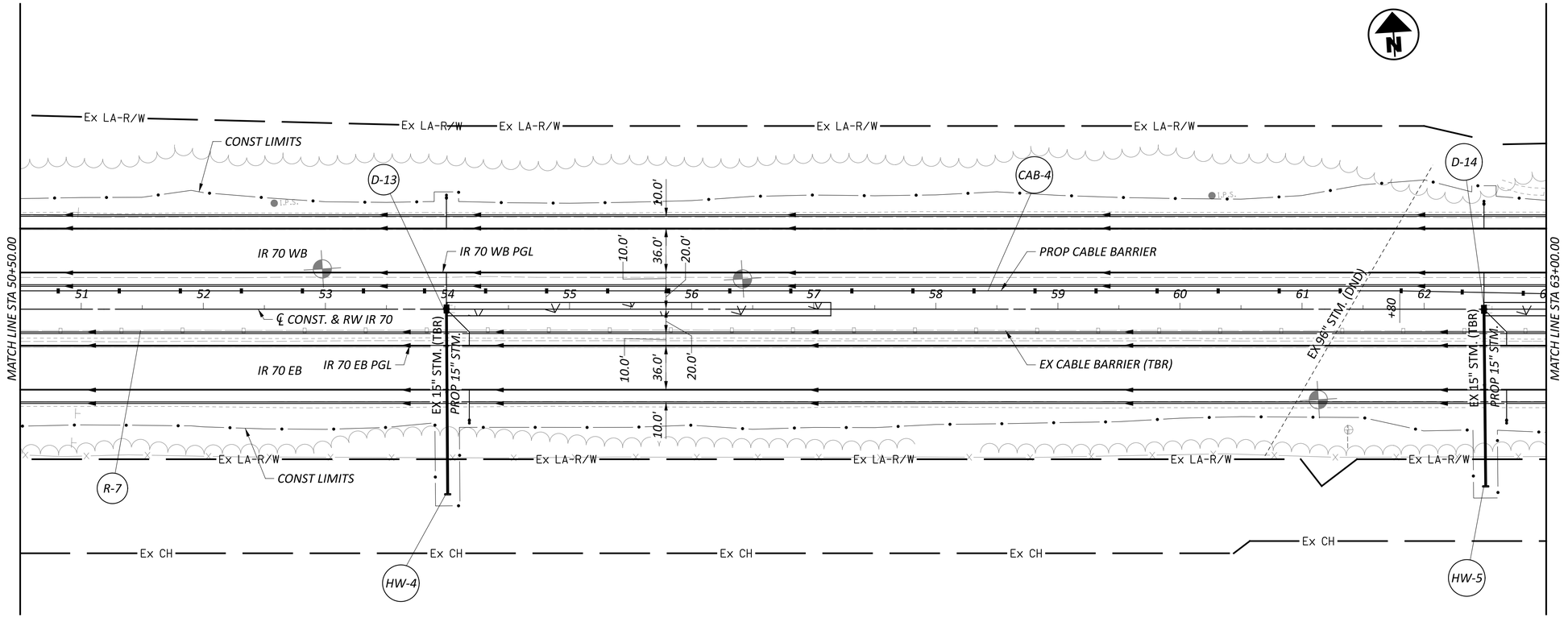

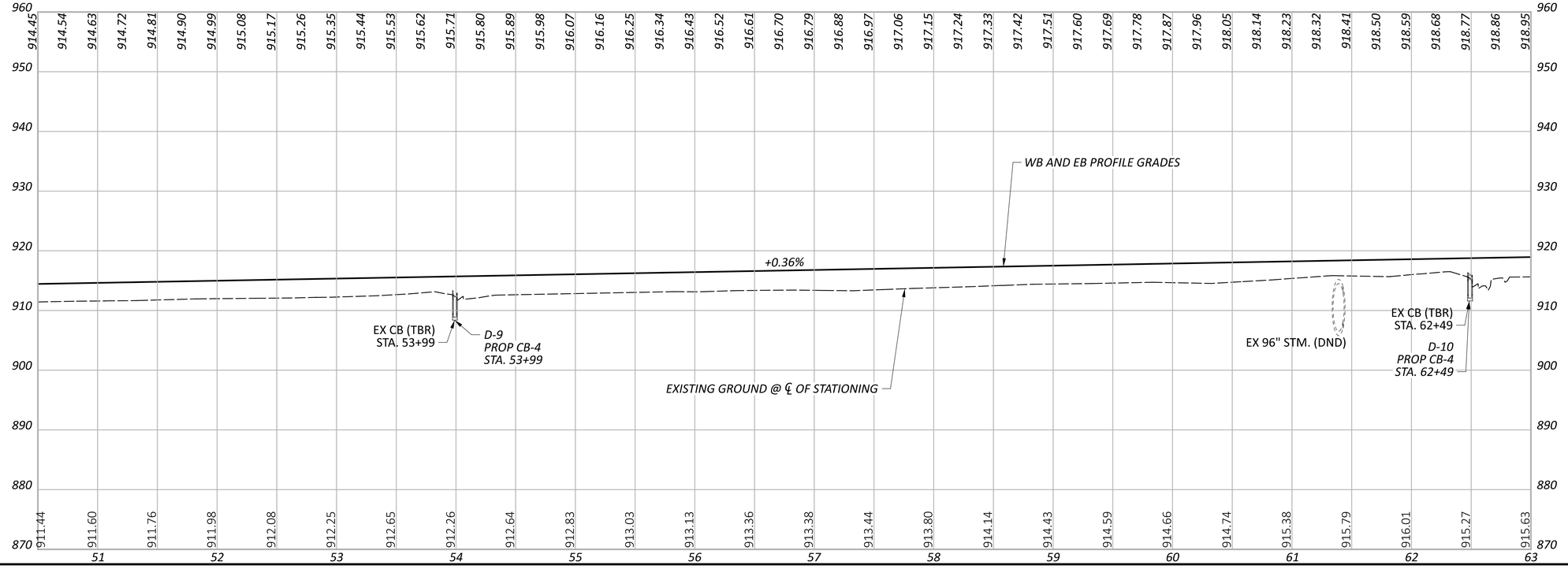

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 50+50.00 TO STA 63+00.00

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-4 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:14 PM USER: AMerrill
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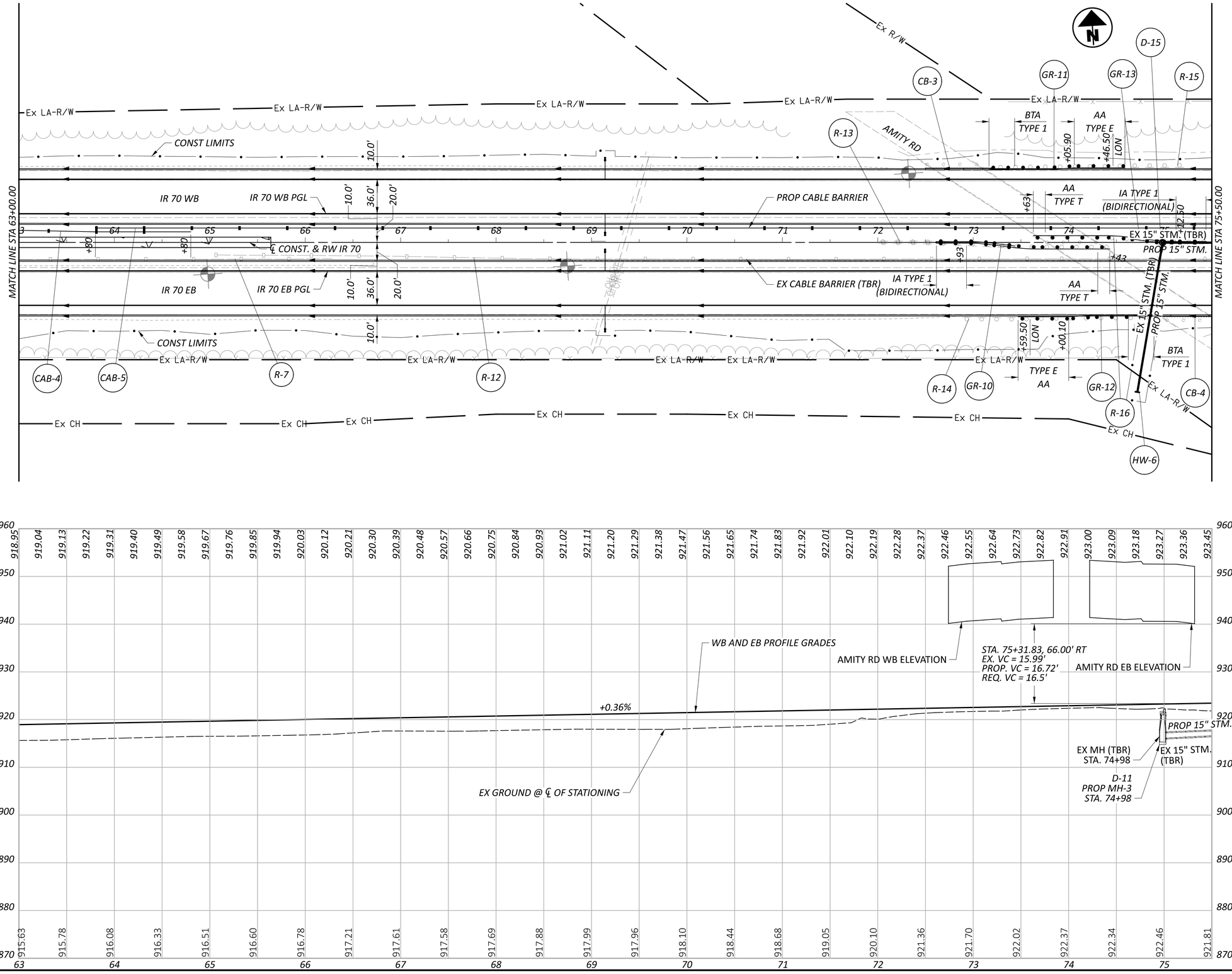
DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.190 TOTAL 577



HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 63+00.00 TO STA 75+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.191
TOTAL	577

FRA-70-00.00

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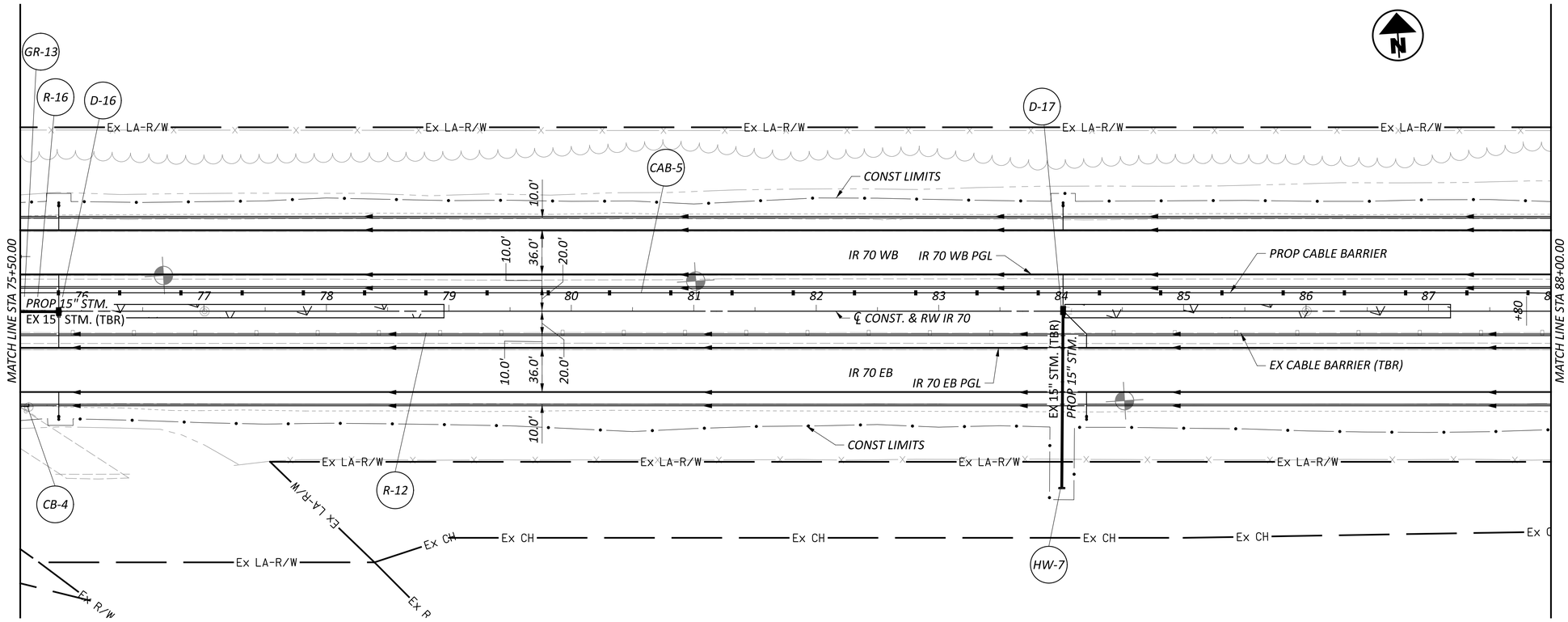

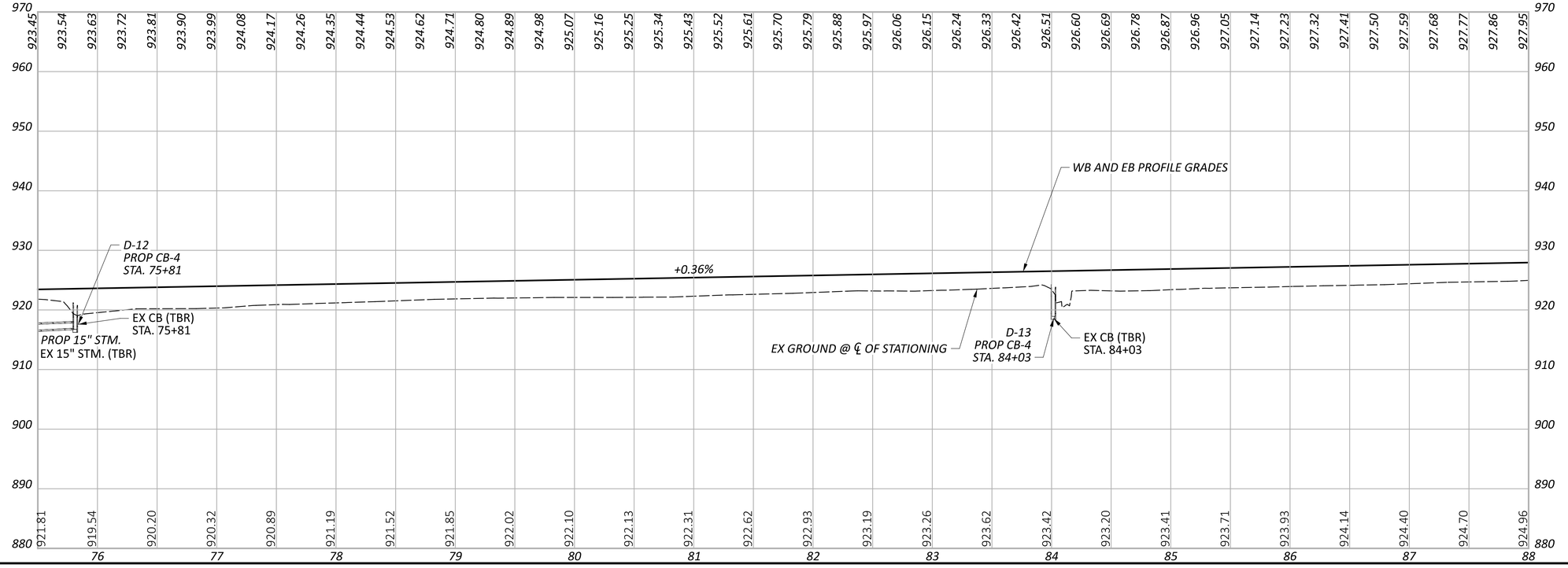

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 75+50.00 TO STA 88+00.00

DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.192
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-6 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:21 PM USER: AMerrill
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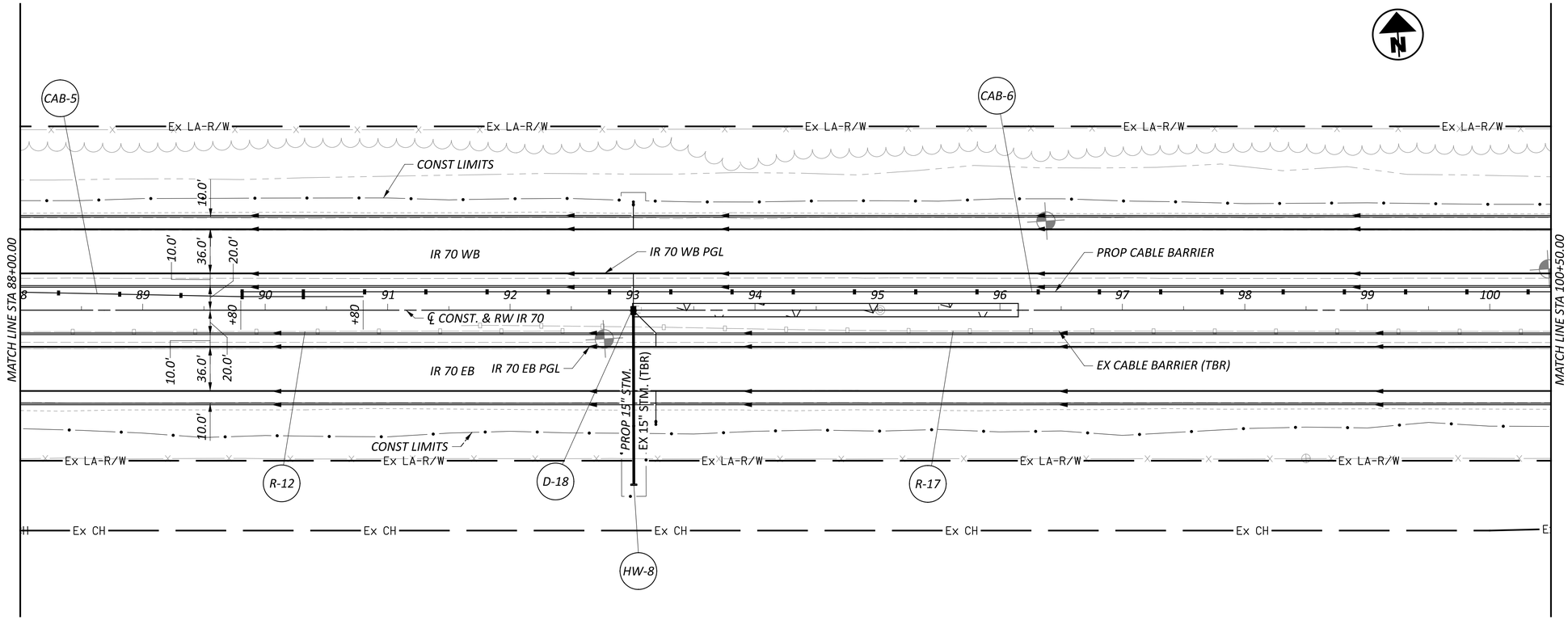

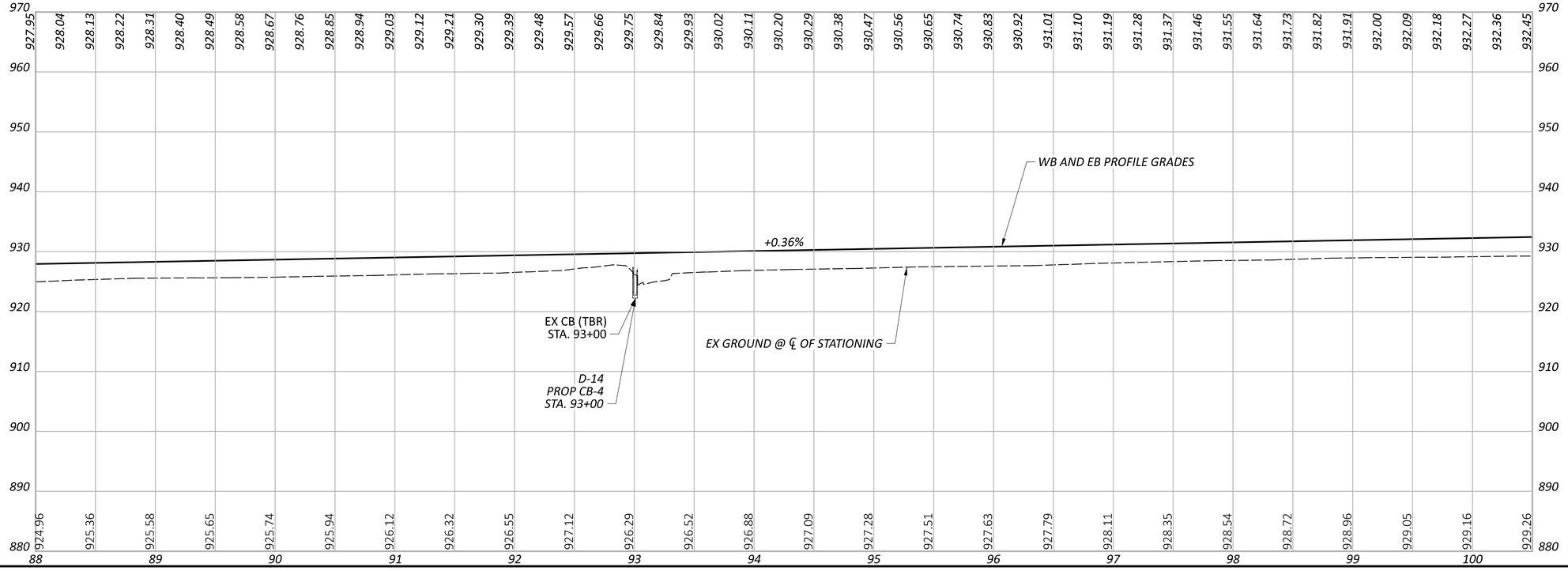

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 88+00.00 TO STA 100+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.193 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-7 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:24 PM USER: AMerrill
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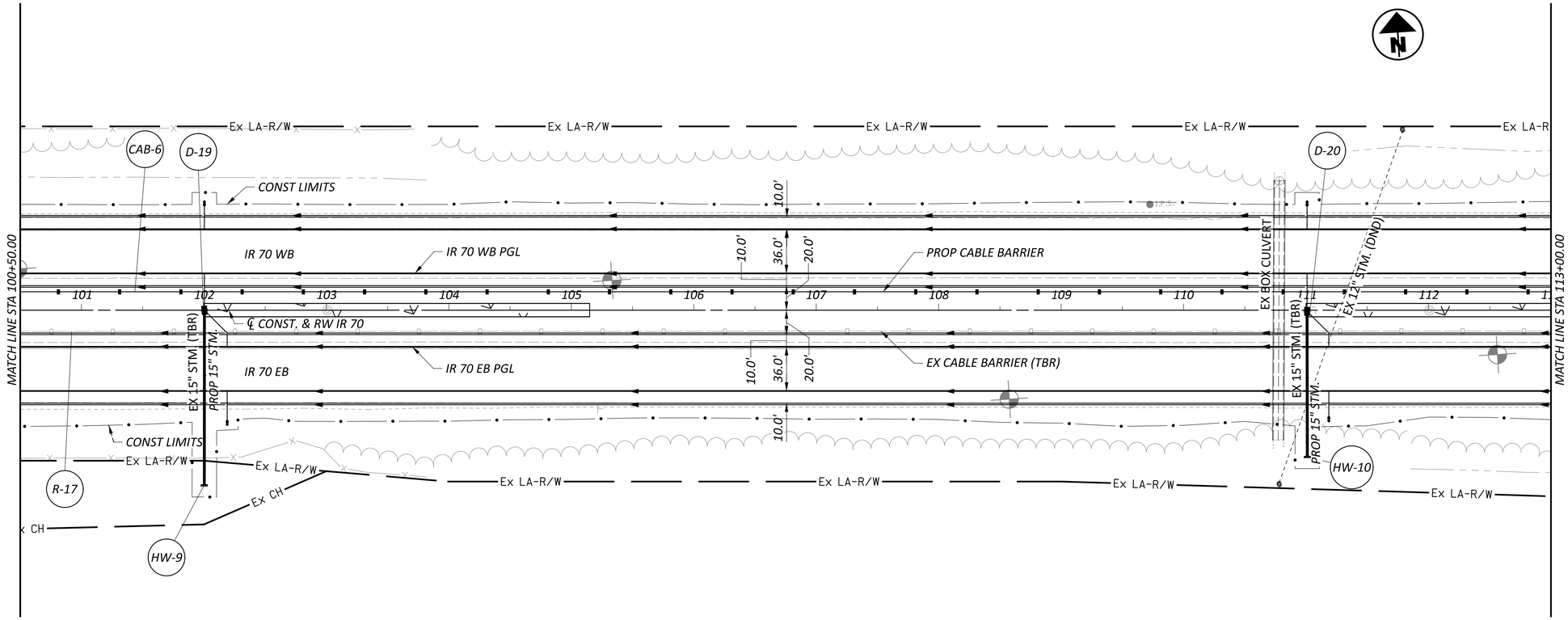

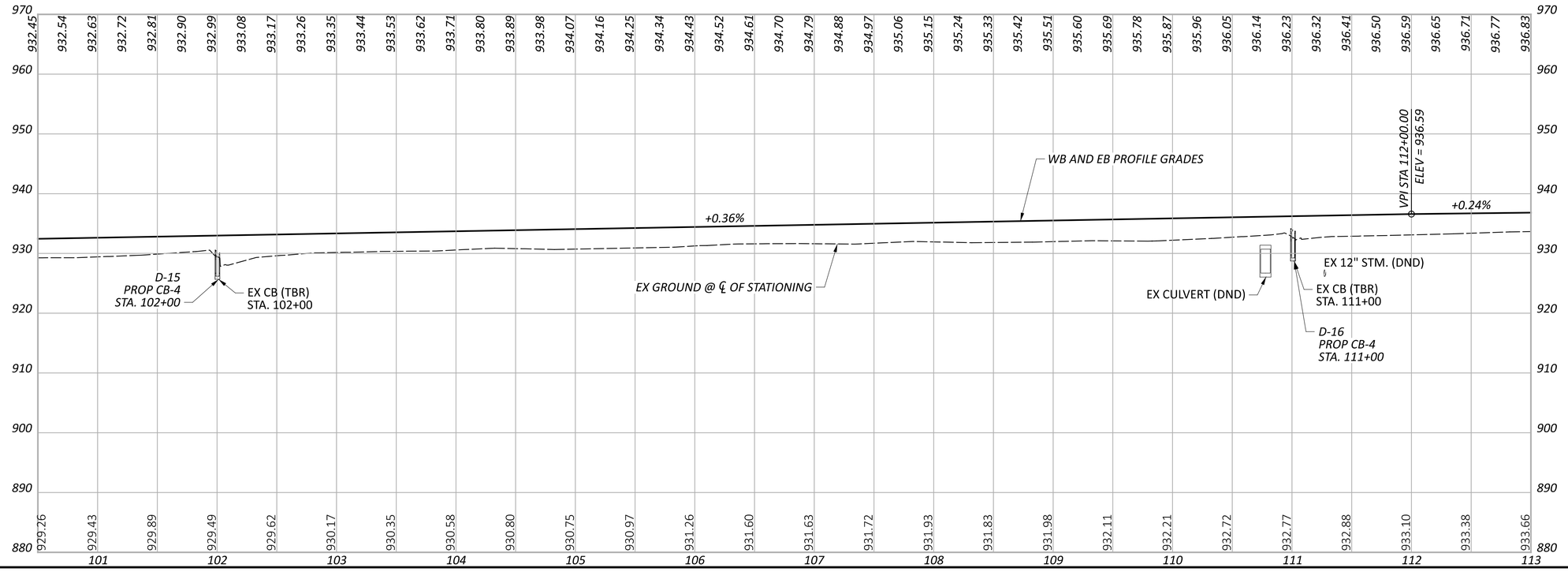

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 100+50.00 TO STA 113+00.00

DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.

DESIGNER JJD

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.194 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-8 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:28 PM USER: AMerrill
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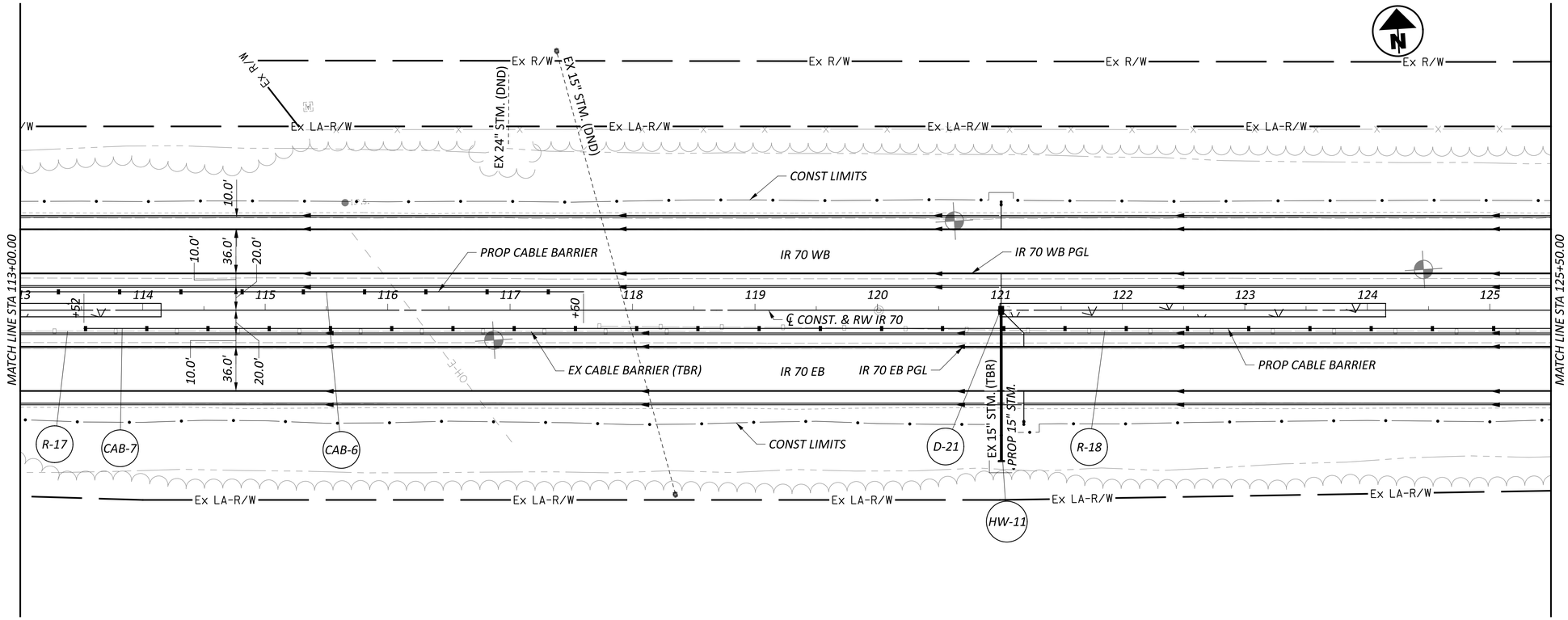

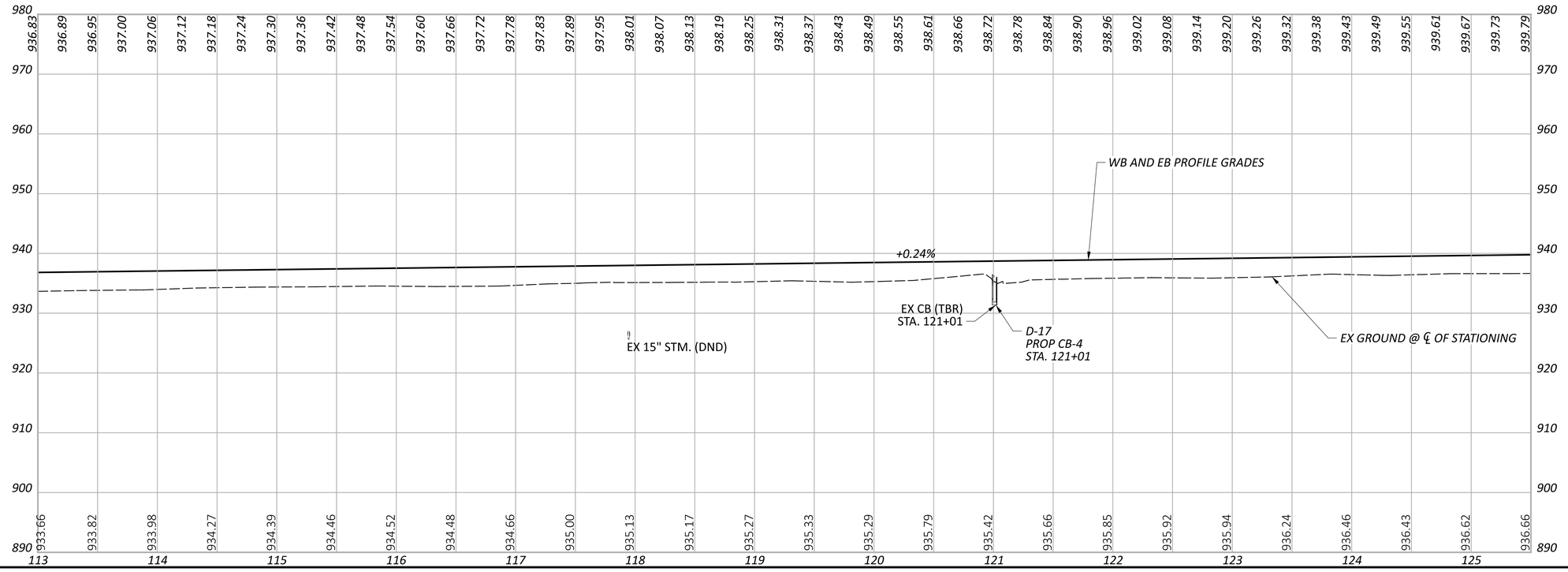

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 113+00.00 TO STA 125+50.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER JJD
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.195 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-9 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:32 PM USER: AMerrill
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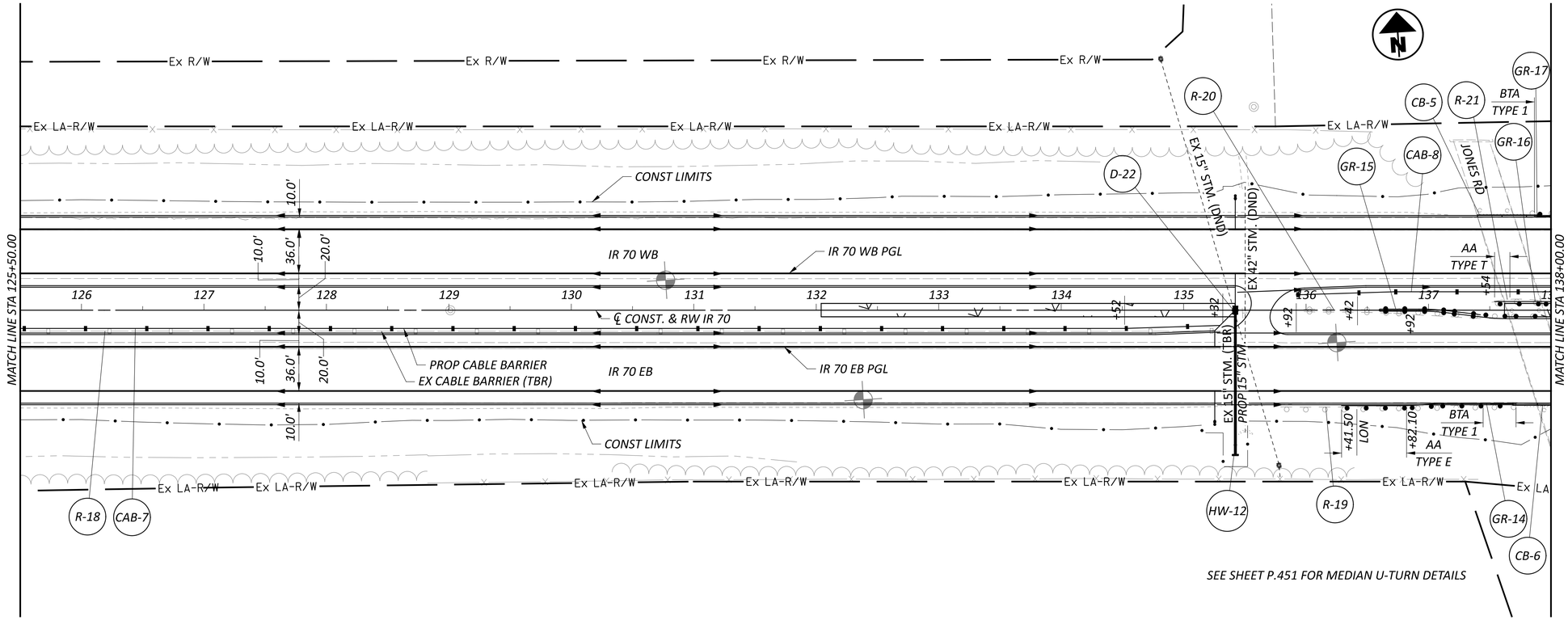

HORIZONTAL SCALE IN FEET 0 25 50 100

PLAN AND PROFILE - IR 70
STA 125+50.00 TO STA 138+00.00

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: JJD

REVIEWER: AJL 08/23/24

PROJECT ID: 116949

SHEET: P.196 TOTAL: 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-10 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:35 PM USER: AMerrill
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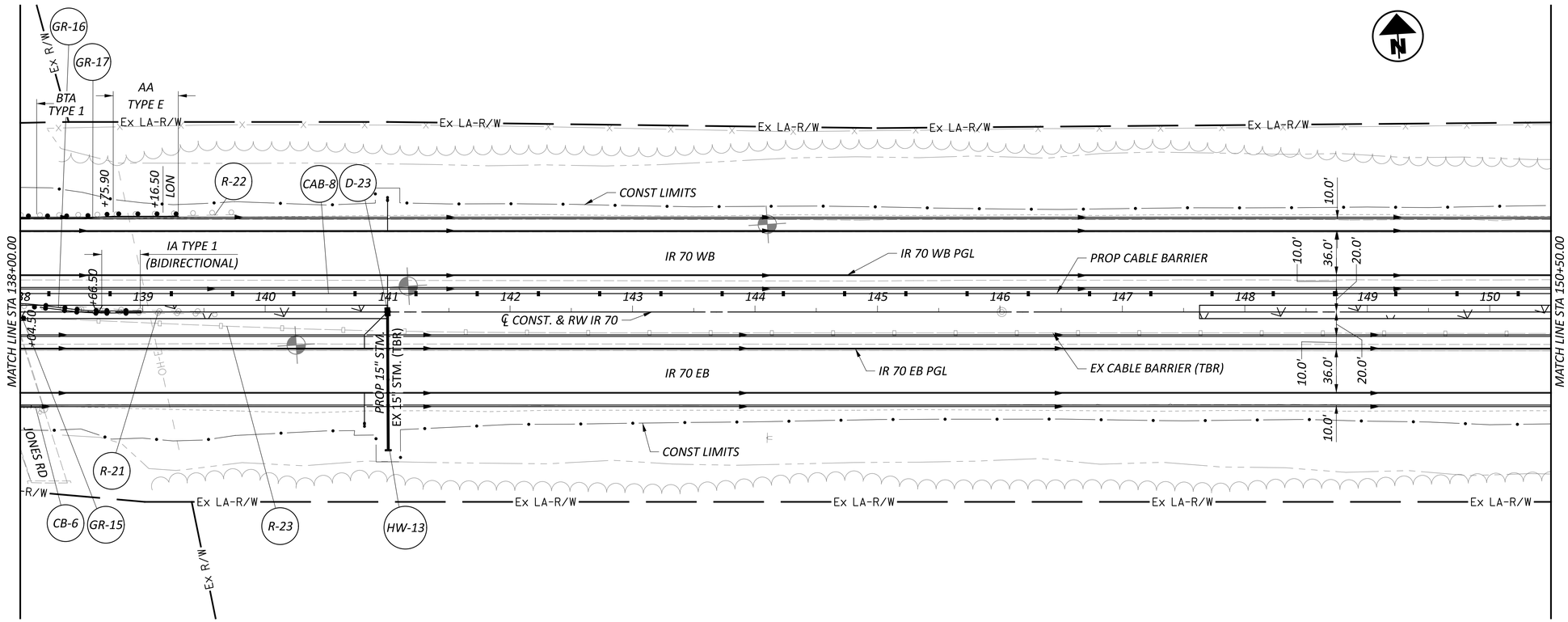

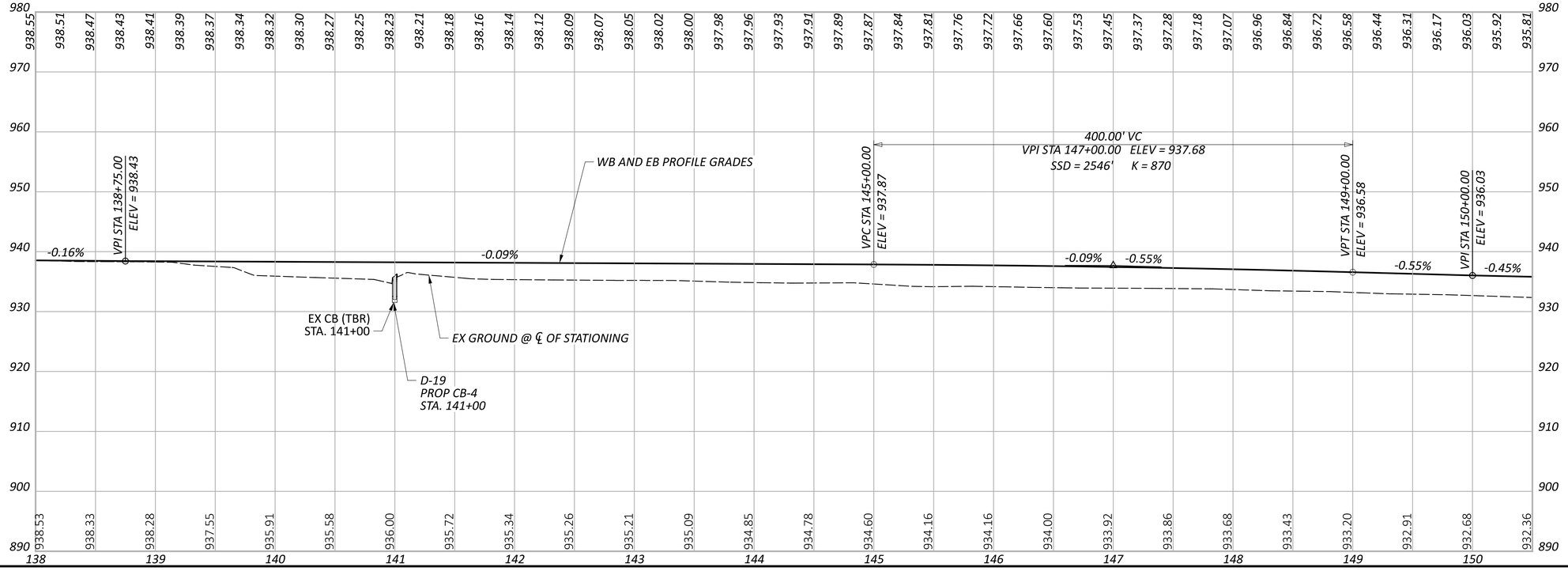

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 138+00.00 TO STA 150+50.00

DESIGN AGENCY
WSP USA
STRUCTUREPOINT INC.

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.197
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-11 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:39 PM USER: AMerrill
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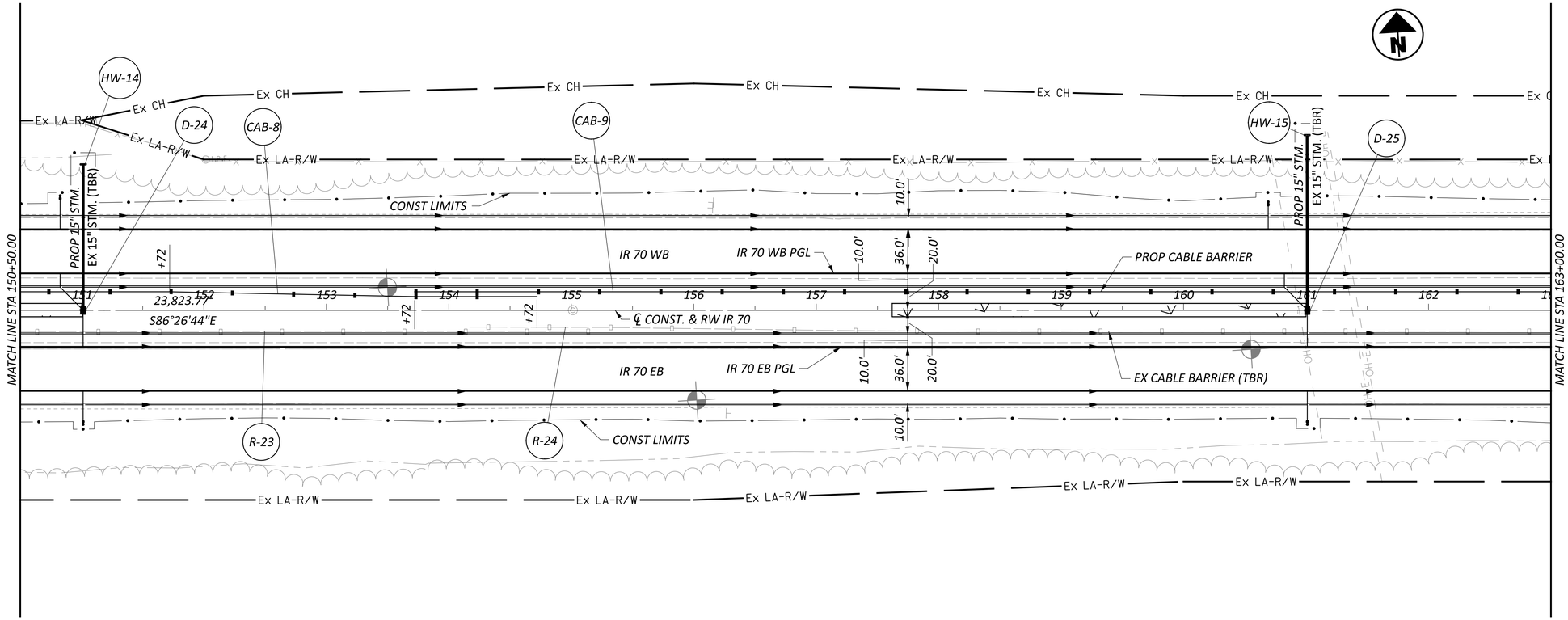

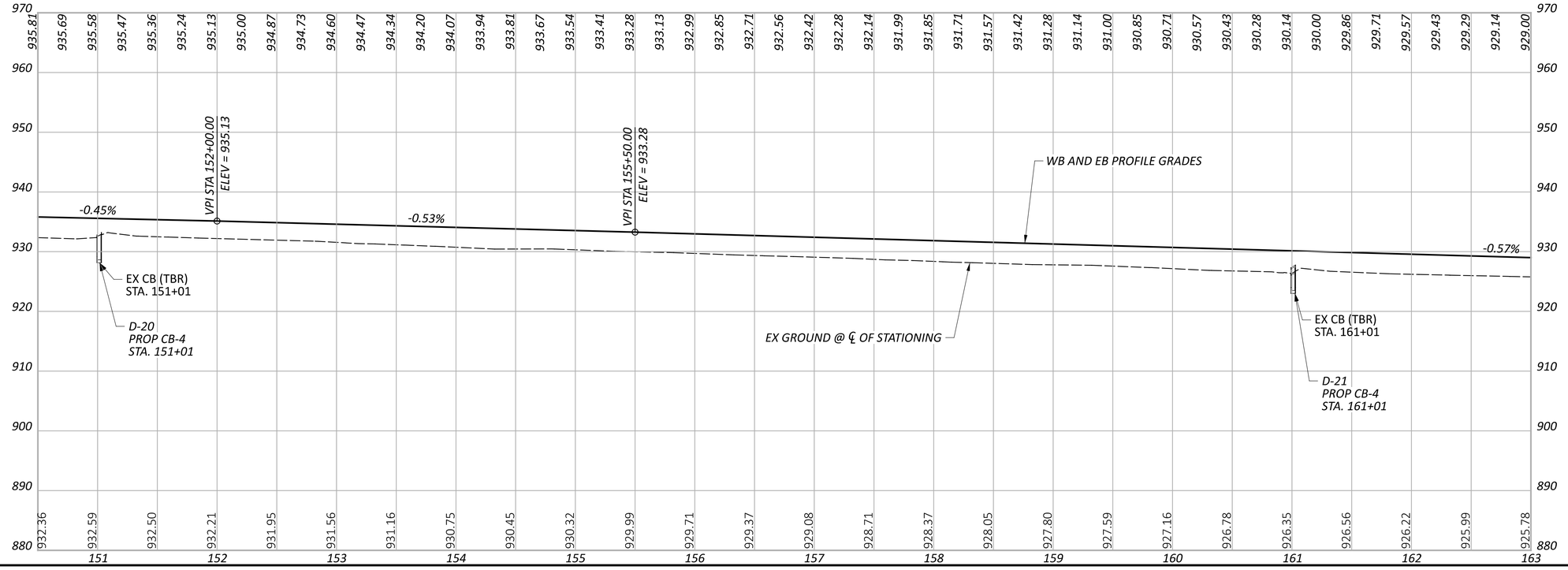

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 150+50.00 TO STA 163+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.198 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-12 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:42 PM USER: AMerrill
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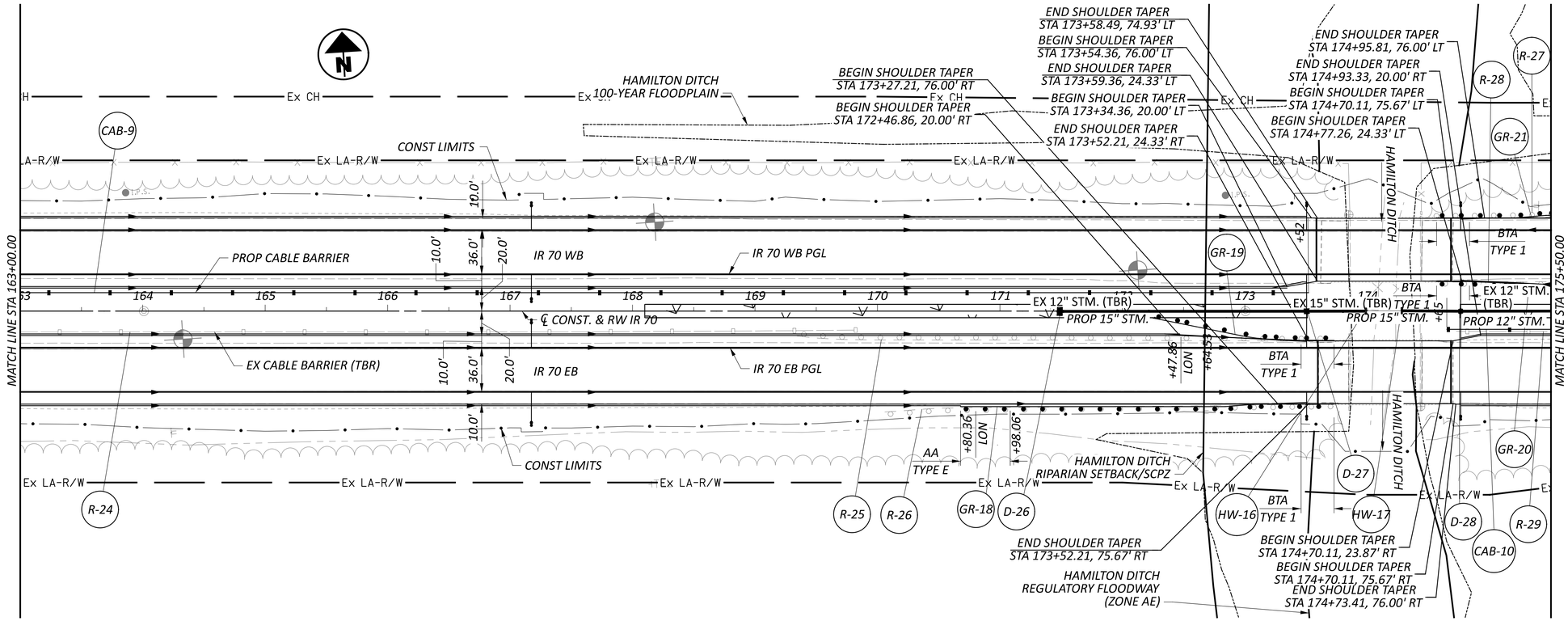

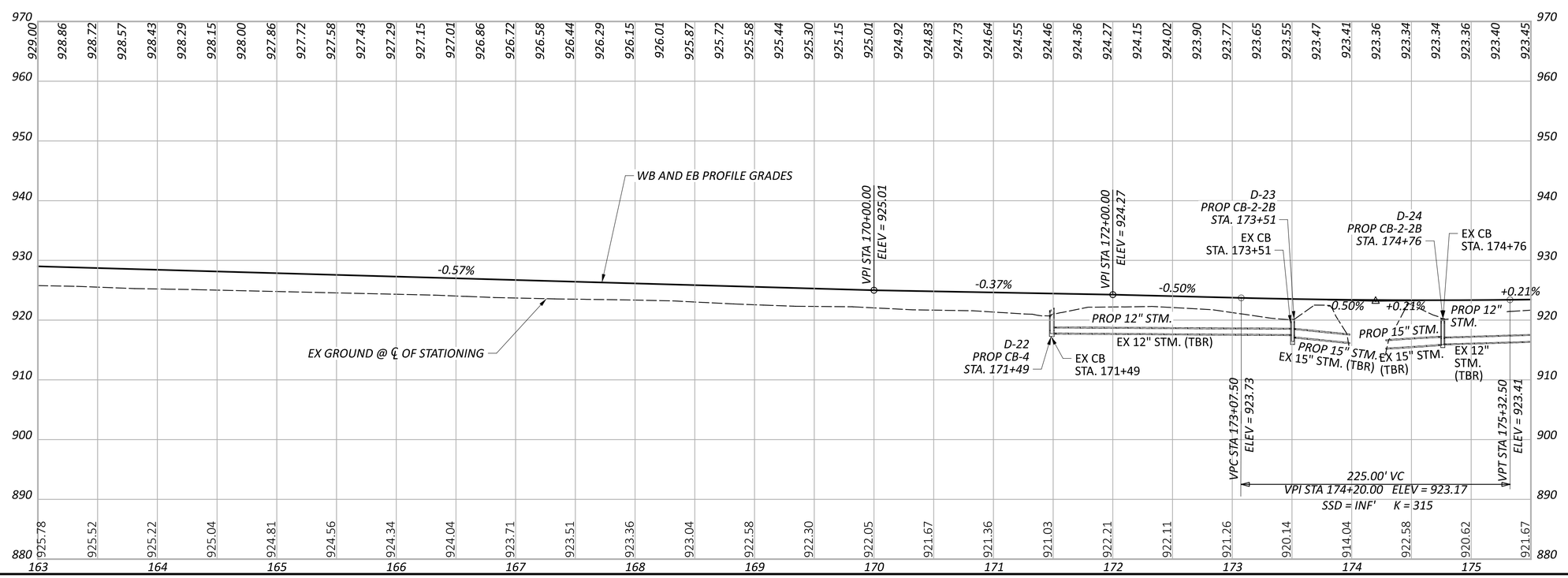

PLAN AND PROFILE - IR 70
STA 163+00.00 TO STA 175+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.199
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-13 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:46 PM USER: AMerrill
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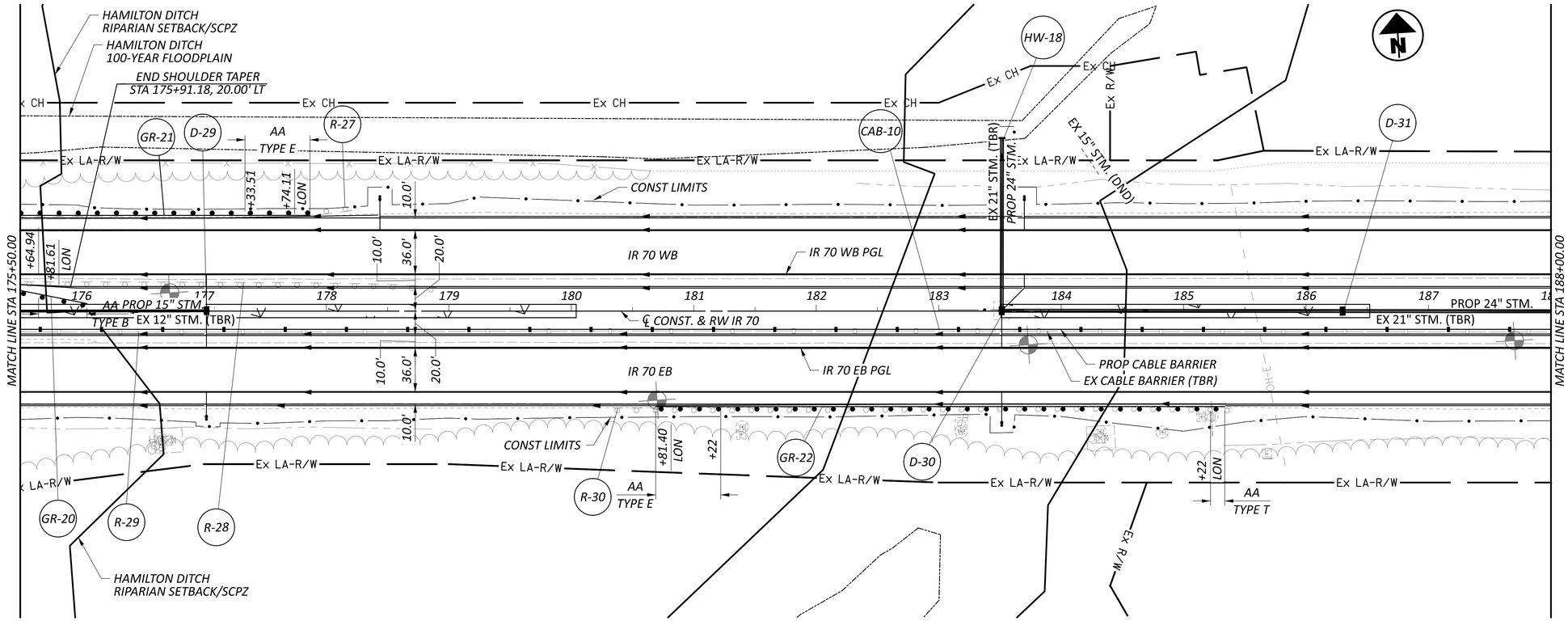

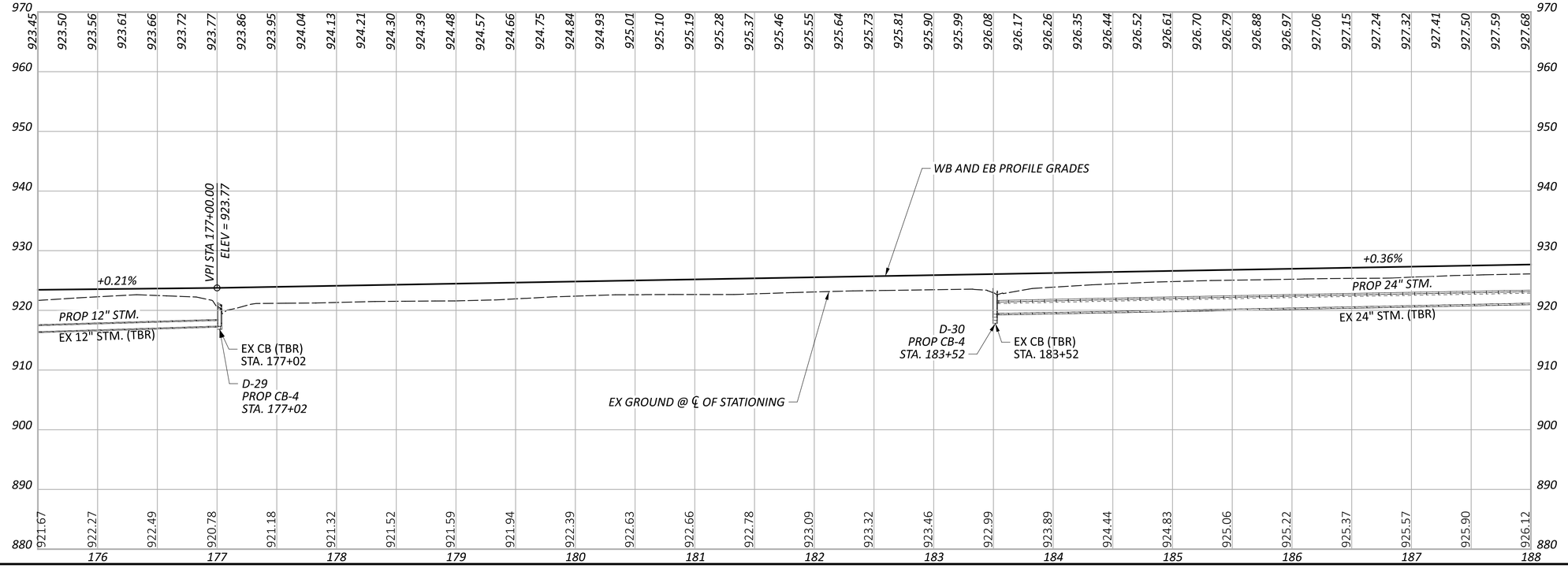

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 175+00.00 TO STA 188+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.200
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-14 PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 11:40:08 AM USER: AMerrill
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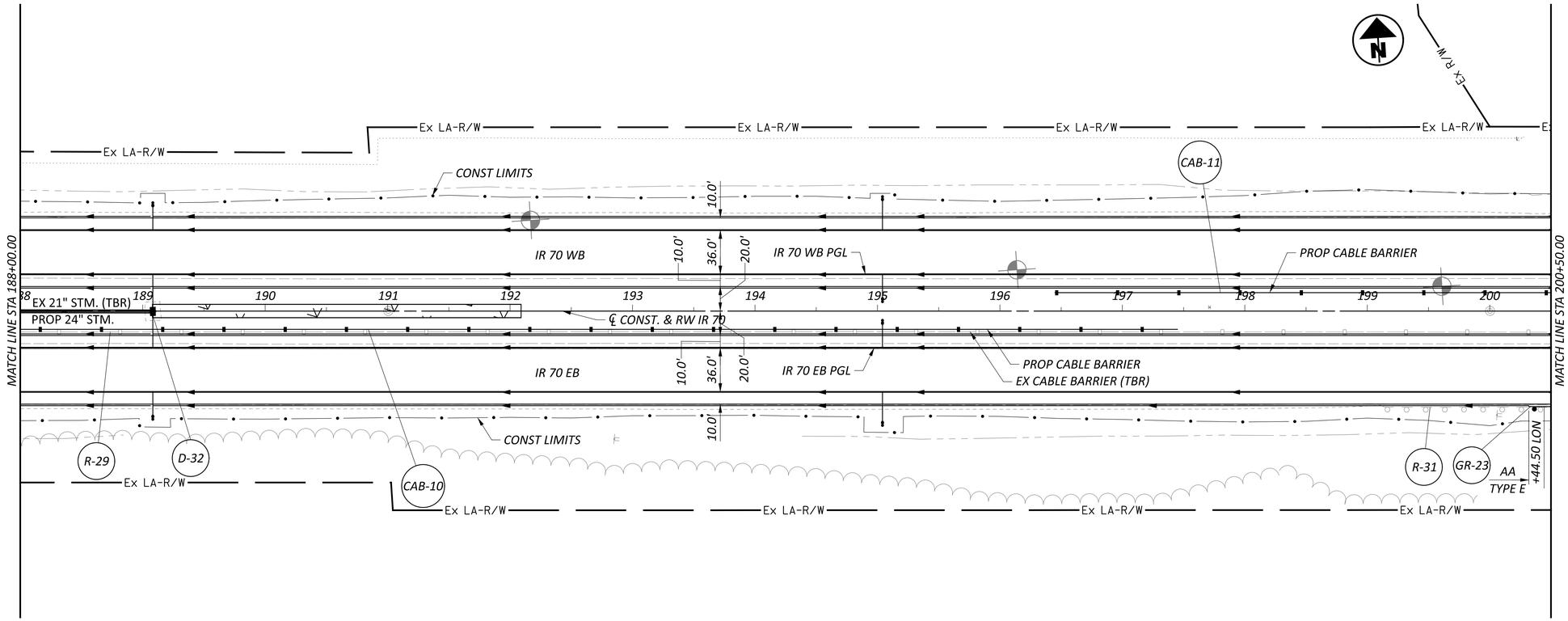

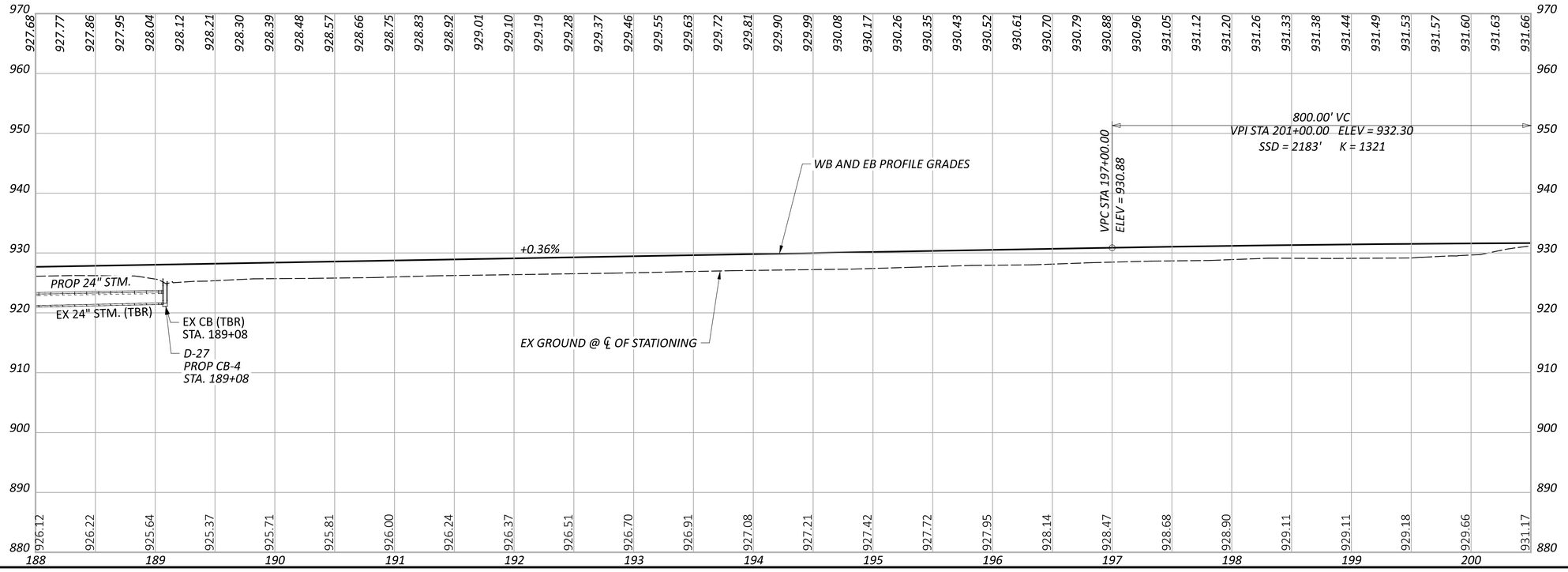

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 188+00.00 TO STA 200+50.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.201
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-15 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:53 PM USER: AMerrill
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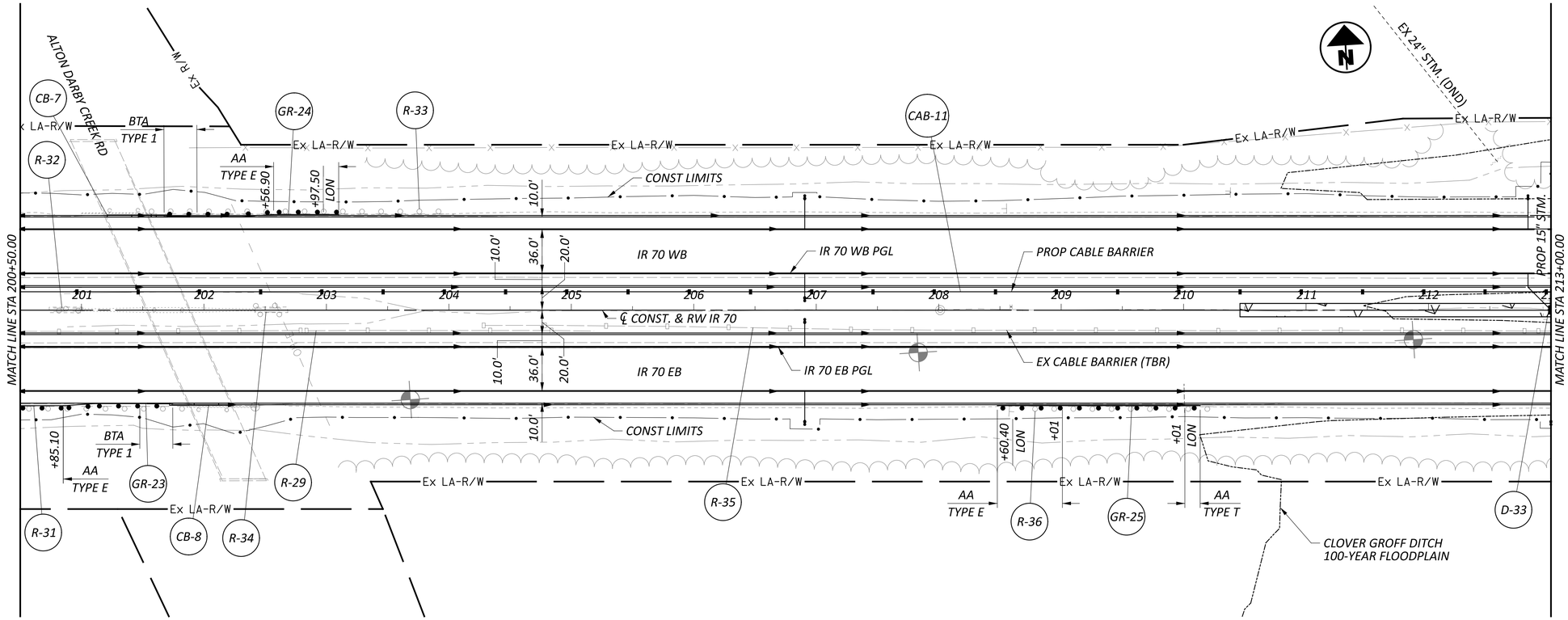

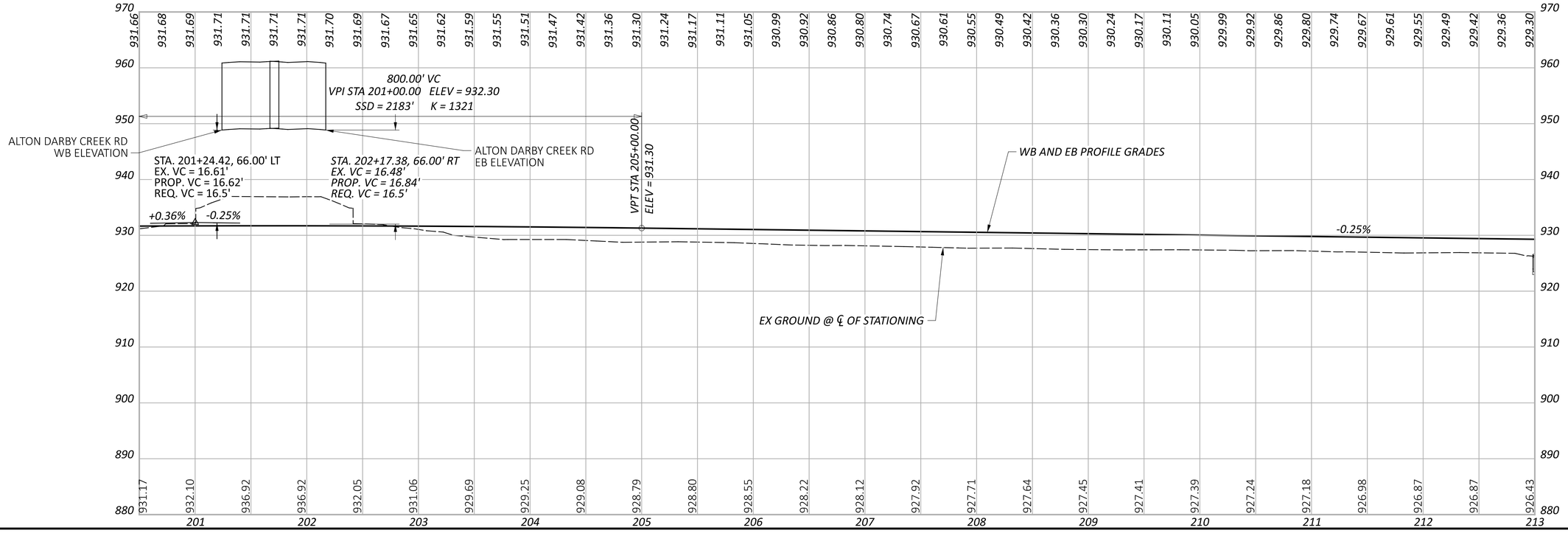

HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 200+50.00 TO STA 213+00.00

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-16 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:56 PM USER: AMerrill
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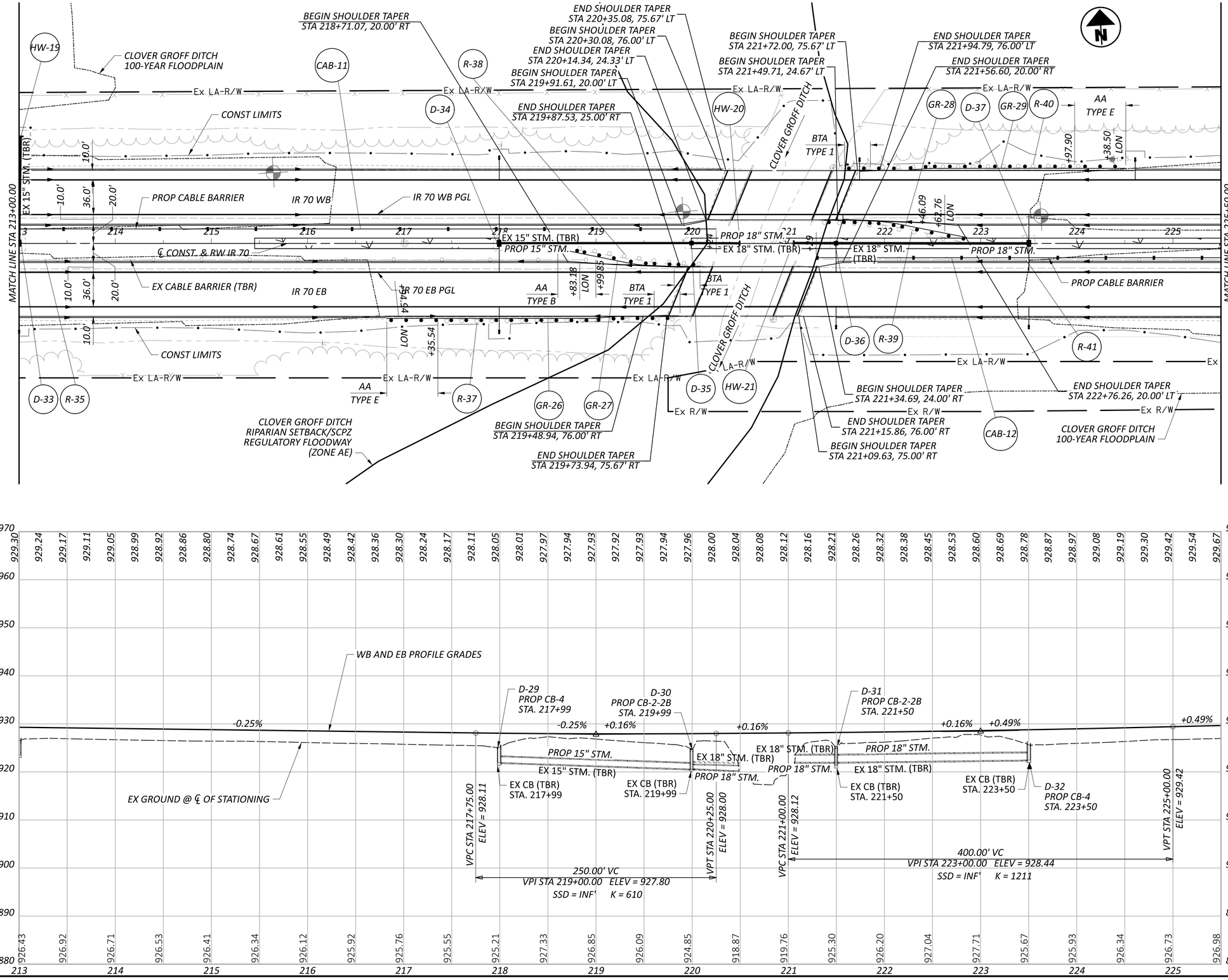
DESIGN AGENCY
STRUCTUREPOINT LLC
DESIGNER
JJD
REVIEWER
AJL 08/23/24
PROJECT ID
116949
SHEET P.202
TOTAL 577



HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 213+00.00 TO STA 225+50.00

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-17 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:04:59 PM USER: AMerrill
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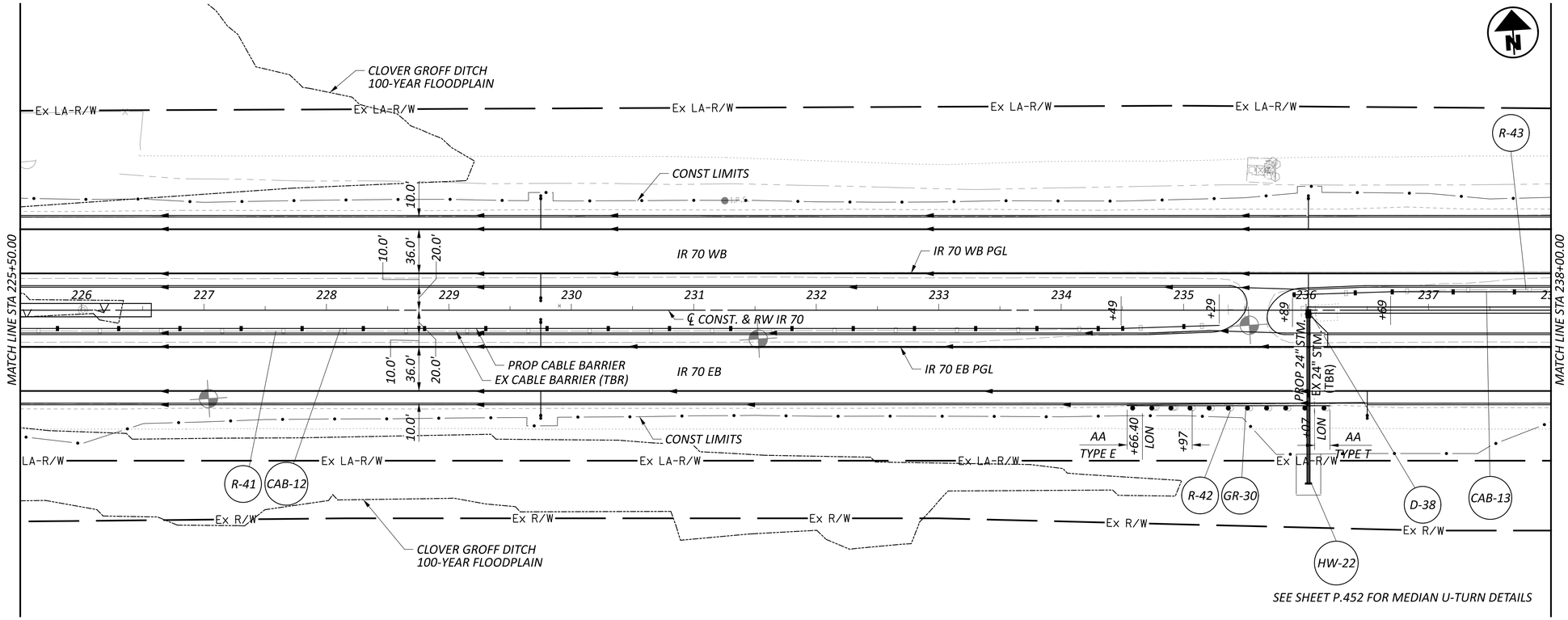
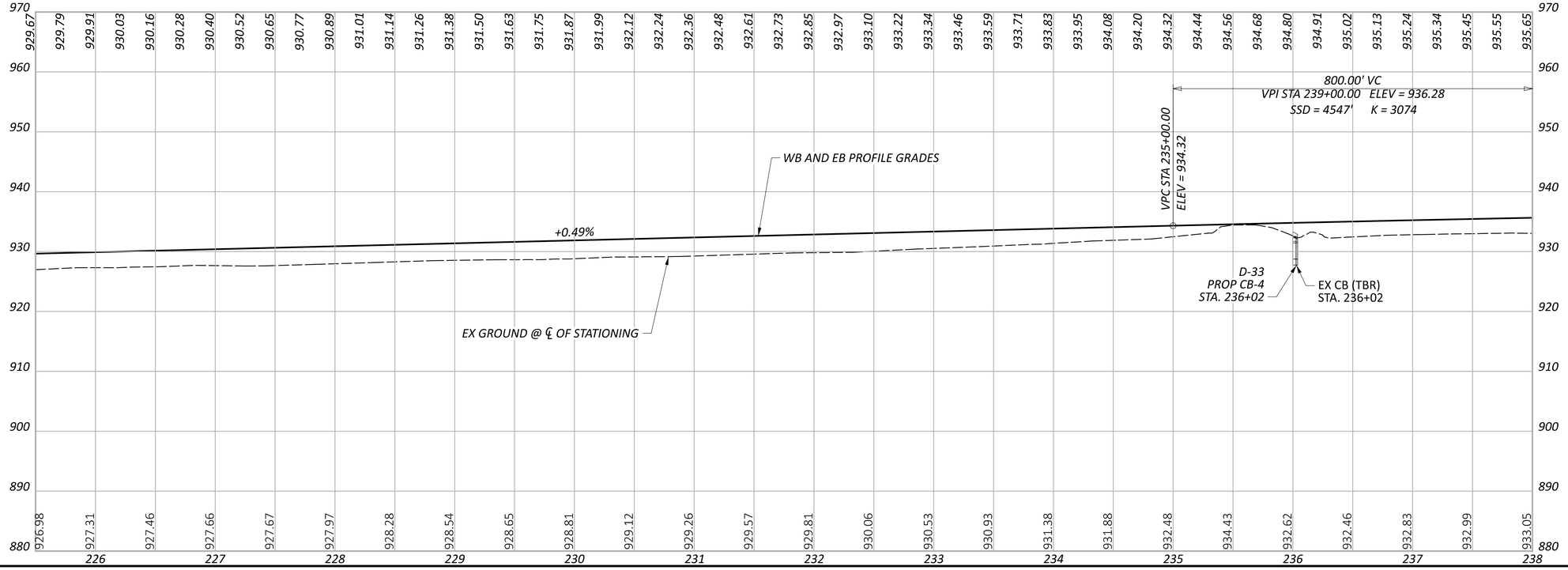
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.203
TOTAL	577





HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 225+50.00 TO STA 238+00.00

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-18 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:03 PM USER: AMerrill
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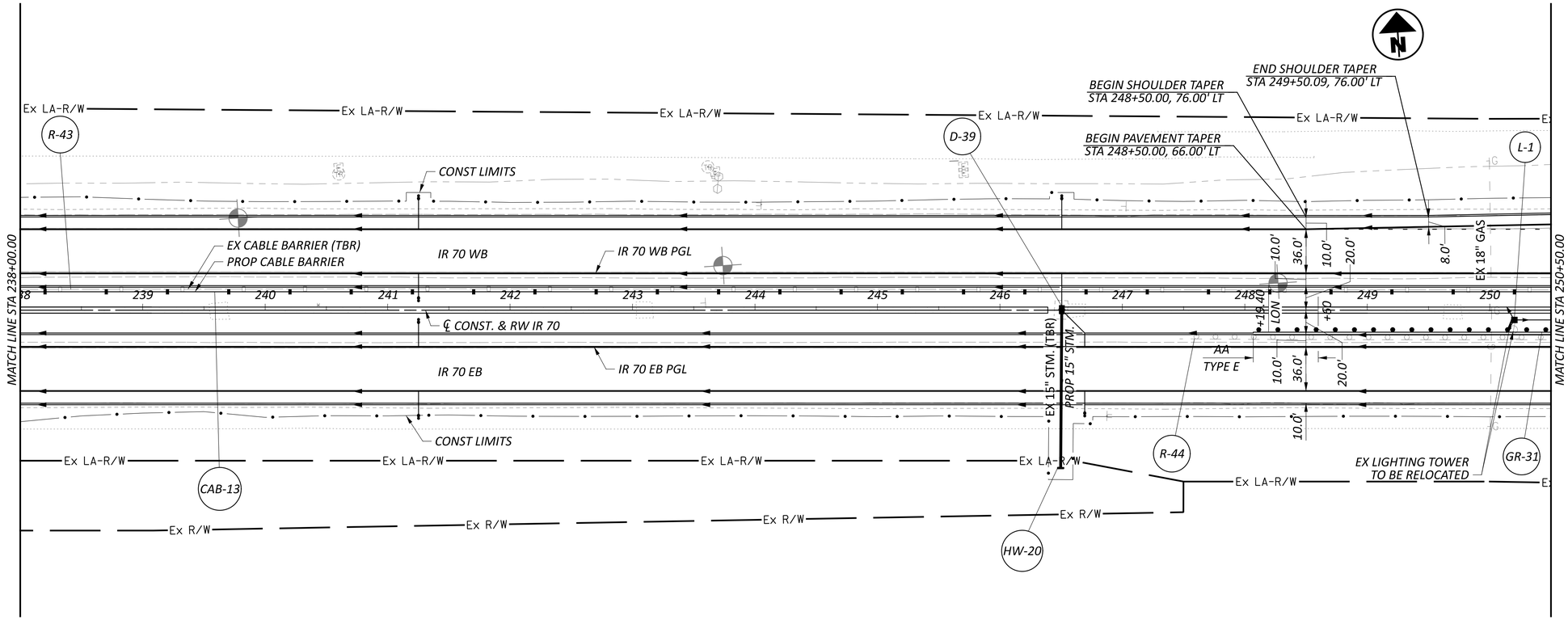
DESIGN AGENCY
STRUCTUREPOINT LLC

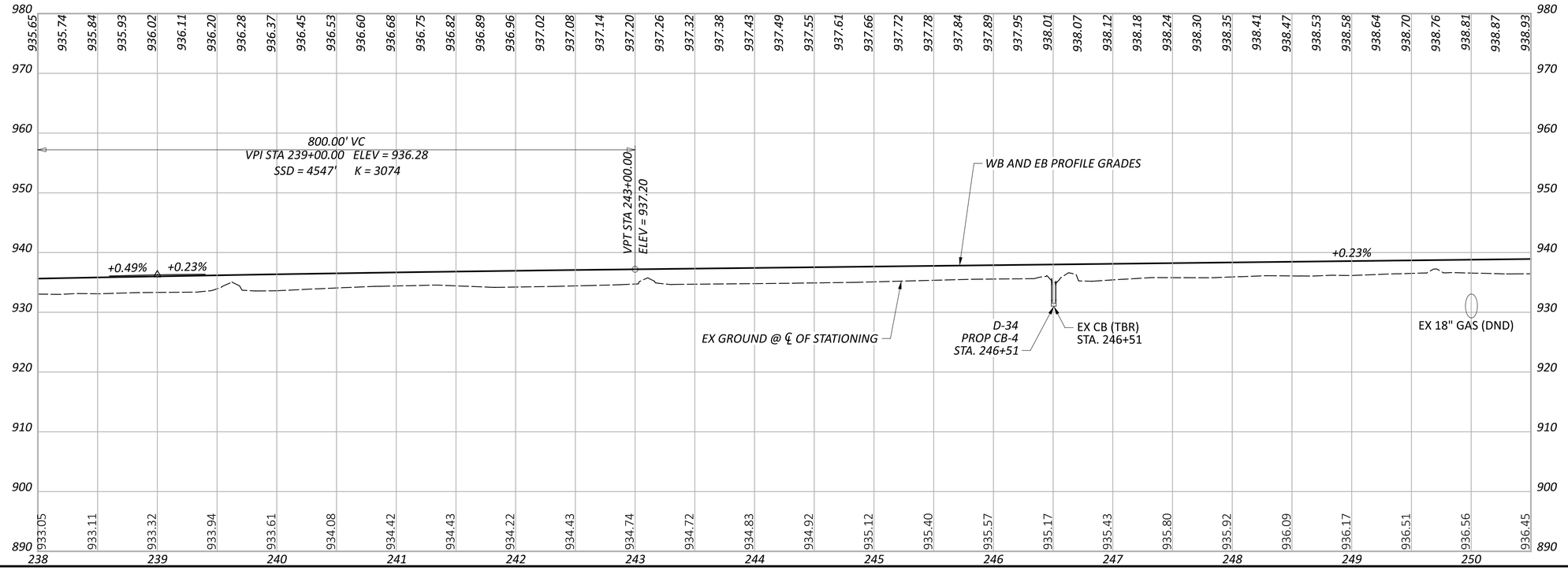
DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.204 TOTAL 577





HORIZONTAL
SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 238+00.00 TO STA 250+50.00

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-19 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:06 PM USER: AMerrill
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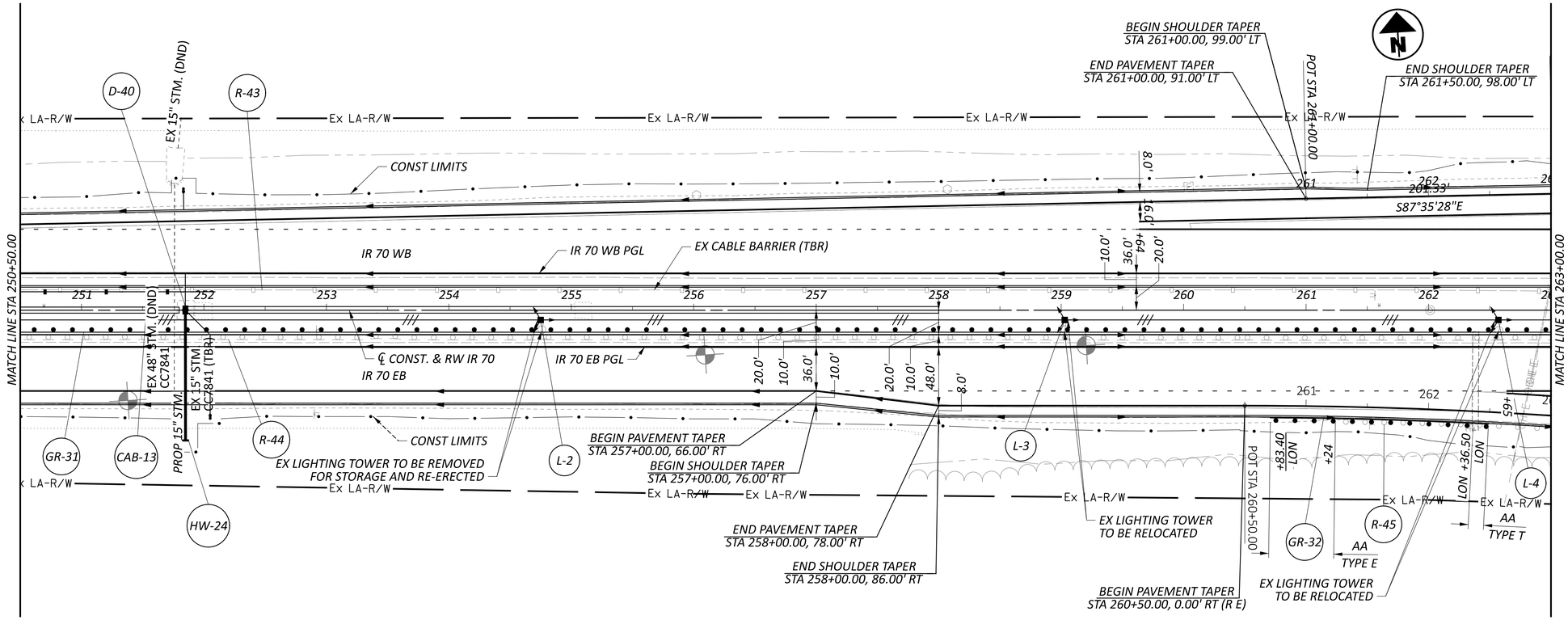
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.205 TOTAL 577



HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 250+50.00 TO STA 263+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.206 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-20 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:10 PM USER: AMerrill
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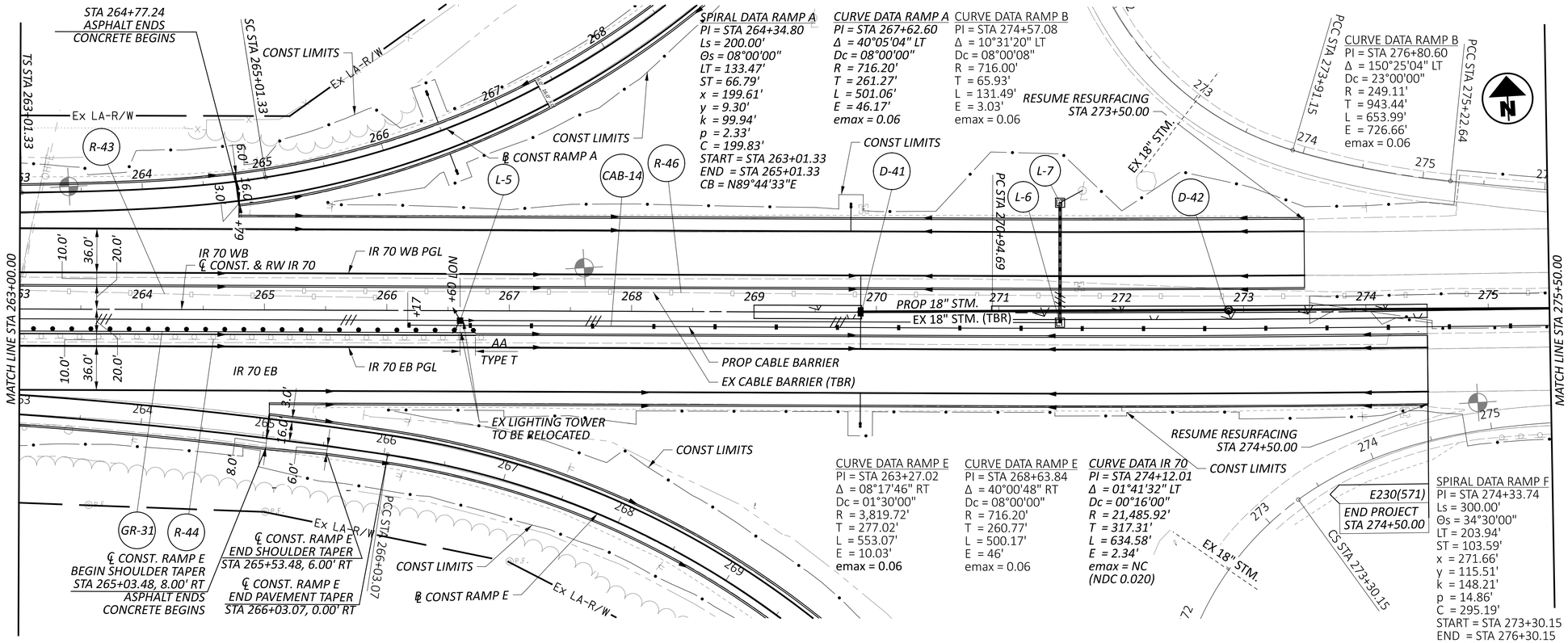


SPIRAL DATA RAMP A
PI = STA 264+34.80
Ls = 200.00'
Θs = 08°00'00"
LT = 133.47'
ST = 66.79'
x = 199.61'
y = 9.30'
k = 99.94'
p = 2.33'
C = 199.83'
START = STA 263+01.33
END = STA 265+01.33
CB = N89°44'33"E

CURVE DATA RAMP A
PI = STA 267+62.60
Δ = 40°05'04" LT
Dc = 08°00'00"
R = 716.20'
T = 261.27'
L = 501.06'
E = 46.17'
emax = 0.06

CURVE DATA RAMP B
PI = STA 274+57.08
Δ = 10°31'20" LT
Dc = 08°00'08"
R = 716.00'
T = 65.93'
L = 131.49'
E = 3.03'
emax = 0.06

CURVE DATA RAMP B
PI = STA 276+80.60
Δ = 150°25'04" LT
Dc = 23°00'00"
R = 249.11'
T = 943.44'
L = 653.99'
E = 726.66'
emax = 0.06

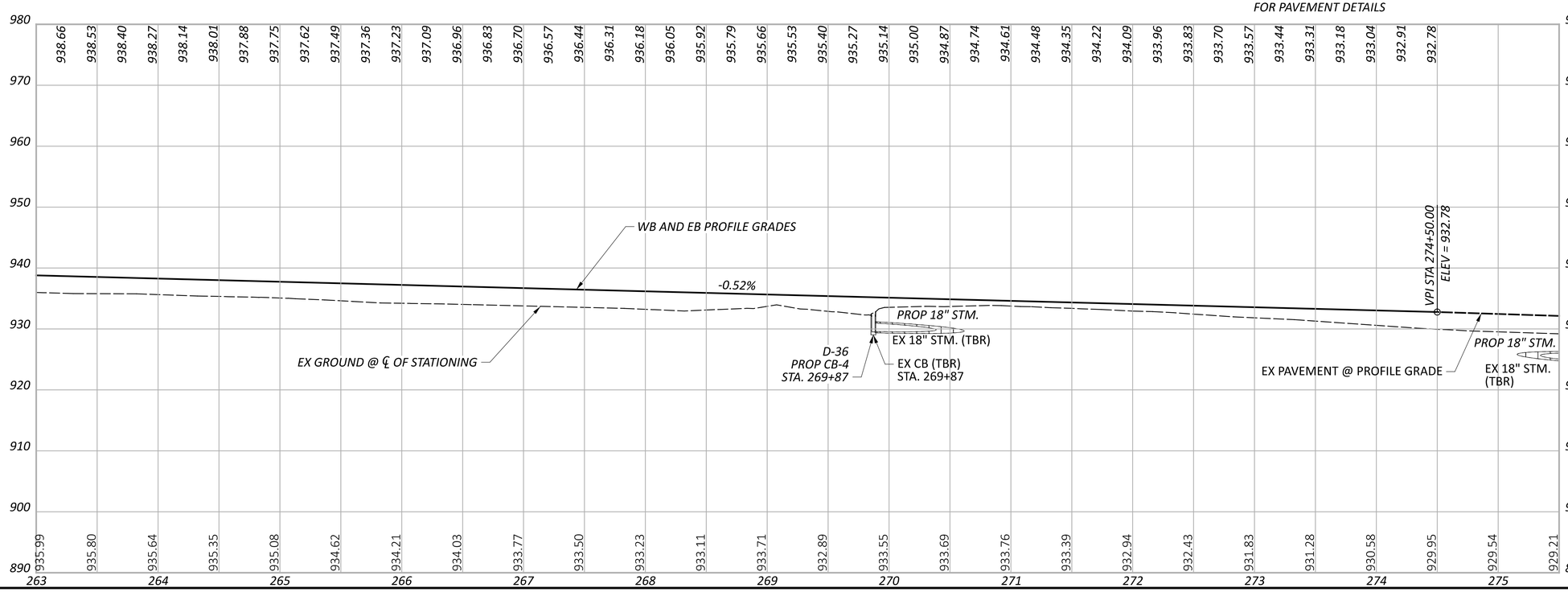
CURVE DATA RAMP E
PI = STA 263+27.02
Δ = 08°17'46" RT
Dc = 01°30'00"
R = 3,819.72'
T = 277.02'
L = 553.07'
E = 10.03'
emax = 0.06

CURVE DATA RAMP E
PI = STA 268+63.84
Δ = 40°00'48" RT
Dc = 08°00'00"
R = 716.20'
T = 260.77'
L = 500.17'
E = 46'
emax = 0.06

CURVE DATA IR 70
PI = STA 274+12.01
Δ = 01°41'32" LT
Dc = 00°16'00"
R = 21,485.92'
T = 317.31'
L = 634.58'
E = 2.34'
emax = NC
(NDC 0.020)

SPIRAL DATA RAMP F
PI = STA 274+33.74
Ls = 300.00'
Θs = 34°30'00"
LT = 203.94'
ST = 103.59'
x = 271.66'
y = 115.51'
k = 148.21'
p = 14.86'
C = 295.19'
START = STA 273+30.15
END = STA 276+30.15
CB = N80°23'53"E

NOTE:
SEE RESURFACING PLAN
FOR PAVEMENT DETAILS



HORIZONTAL SCALE IN FEET
0 25 50 100

PLAN AND PROFILE - IR 70
STA 263+00.00 TO STA 275+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER JJD
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.207 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-21 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:14 PM USER: AMerrill
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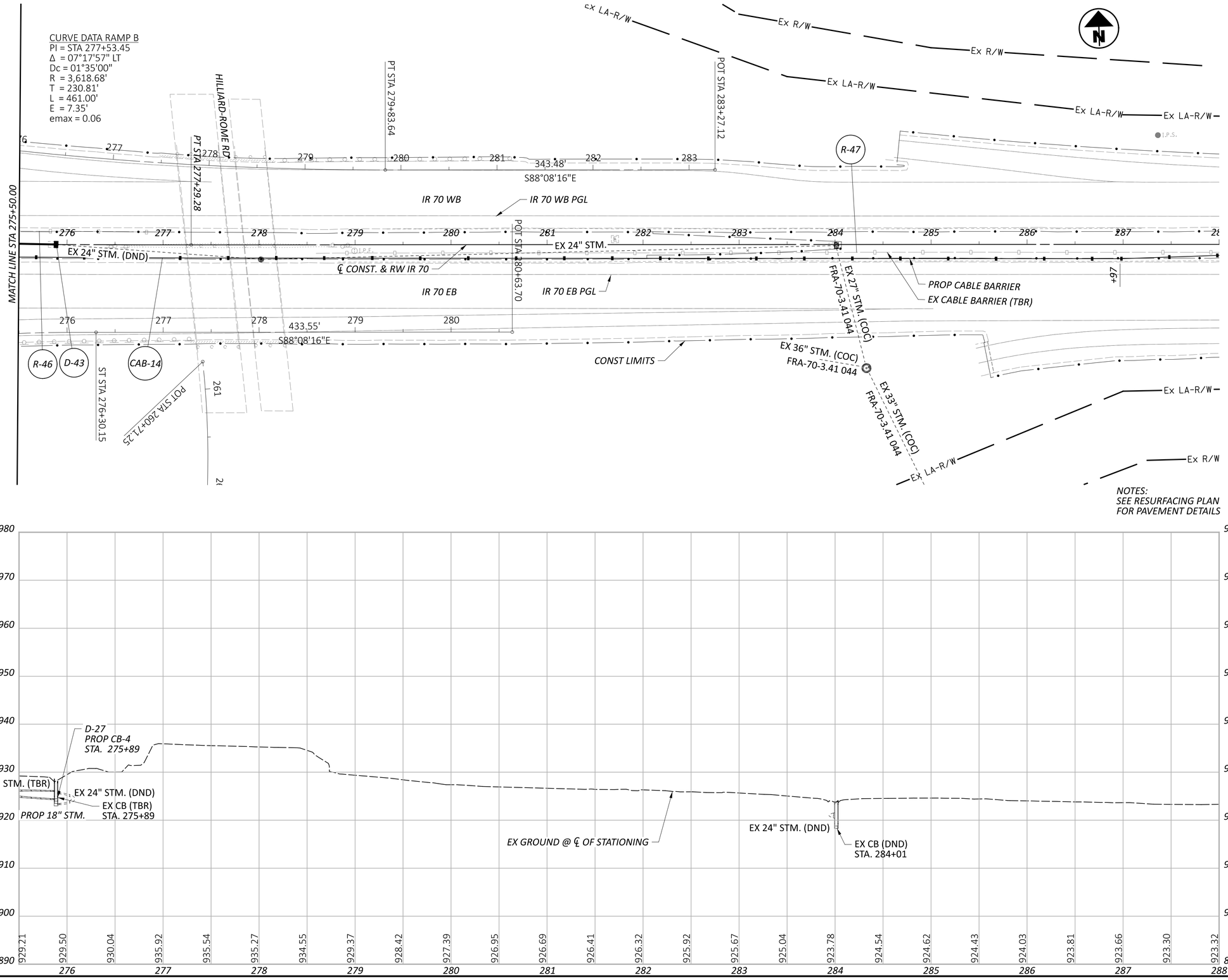


HORIZONTAL SCALE IN FEET
0 25 50 100

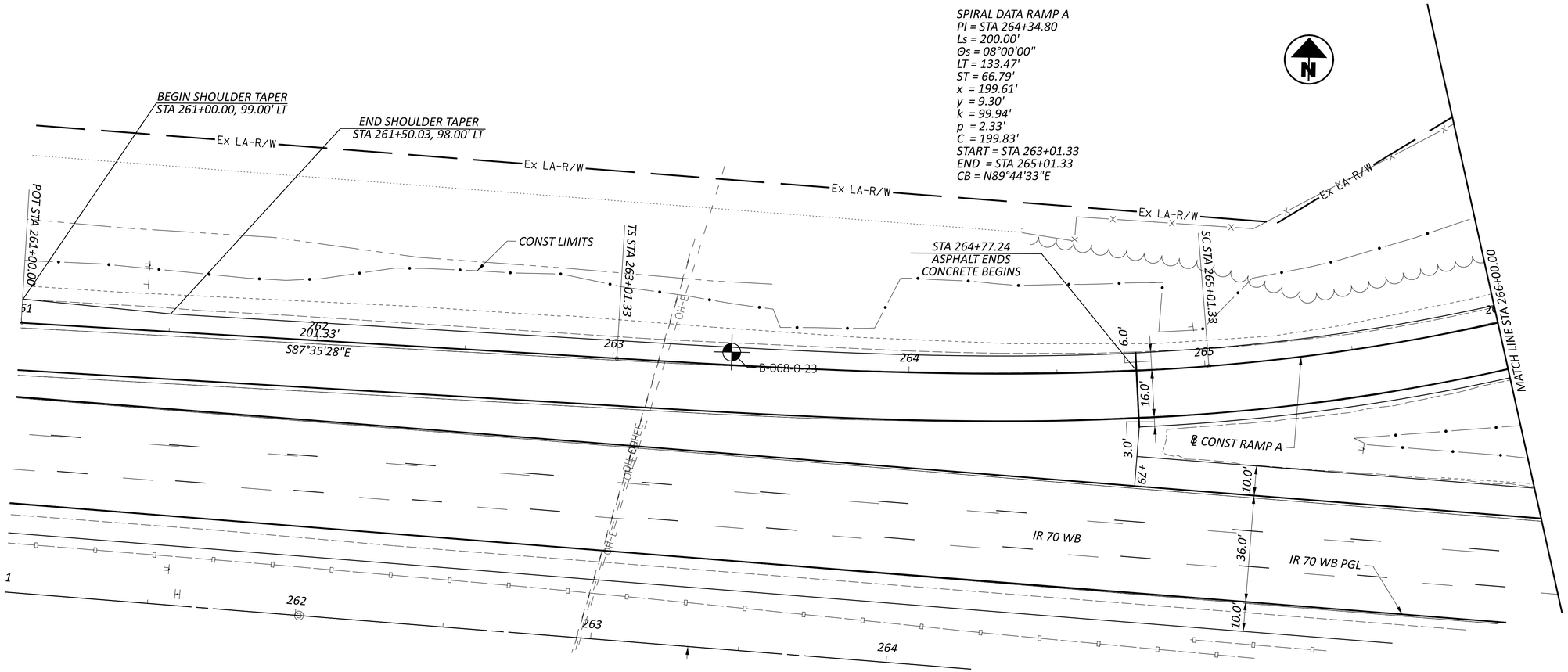
PLAN AND PROFILE - IR 70
STA 275+50.00 TO STA 288+00.00

FRA-70-00.00

MODEL: CLP_I070 - I-70 Plan-22 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:18 PM USER: AMerrill
O:\2023\00711\C- Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_GP023.dgn

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER JJD
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.208 TOTAL 577



HORIZONTAL
SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP A
STA 261+00.00 TO STA 266+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.209
TOTAL	577

FRA-70-00.00

MODEL: BLP_R070A - Plan 1 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:22 PM USER: AMerrill
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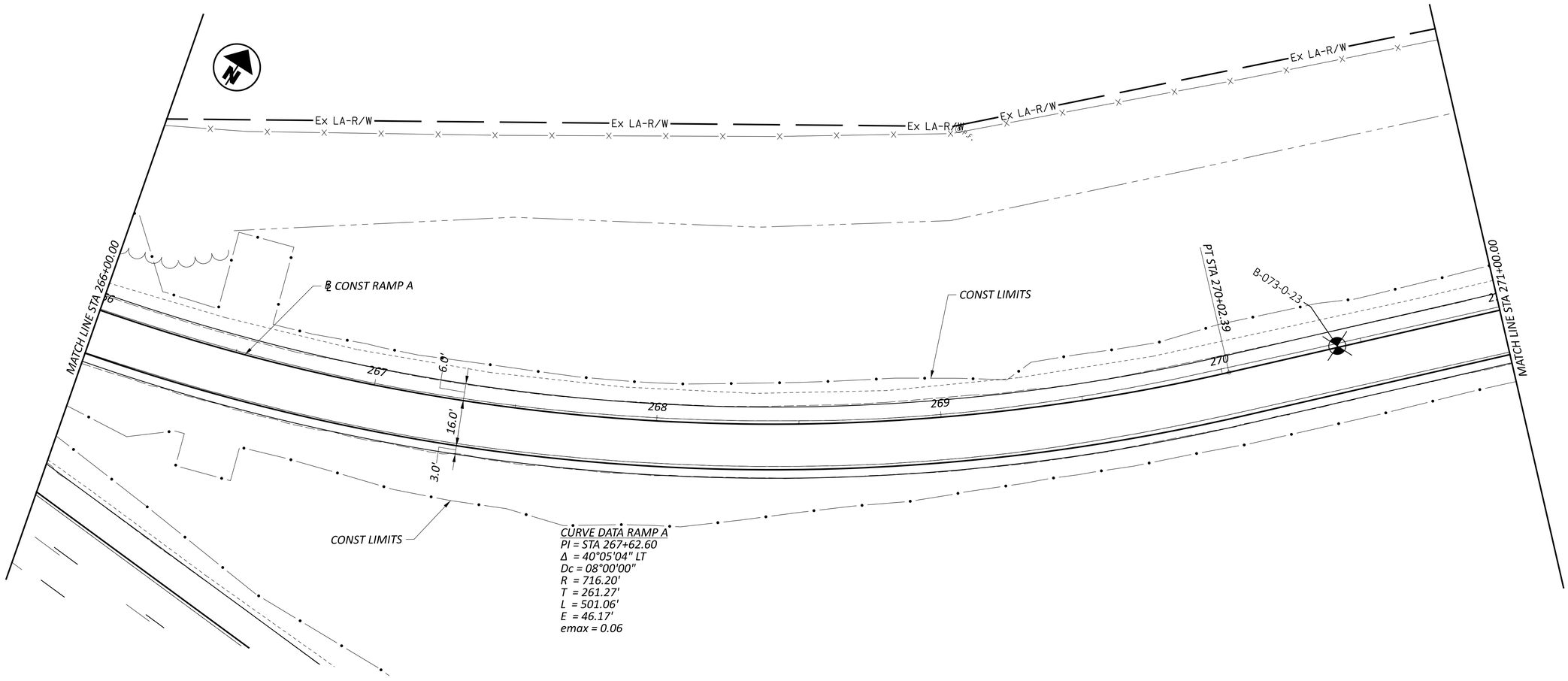

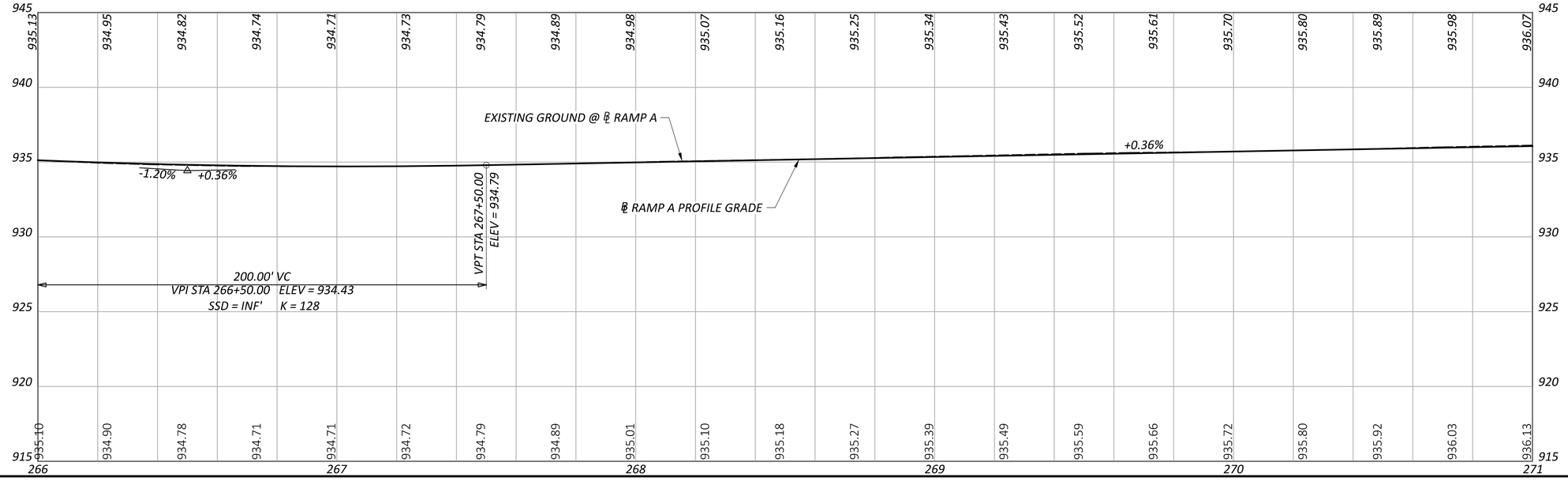

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP A
STA 266+00.00 TO STA 271+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER JJD

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.210 TOTAL 577

FRA-70-00.00

MODEL: BLP_R070A - Plan 2 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:24 PM USER: AMerrill
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MODEL: BLP_R070A - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:26 PM USER: AMerrill
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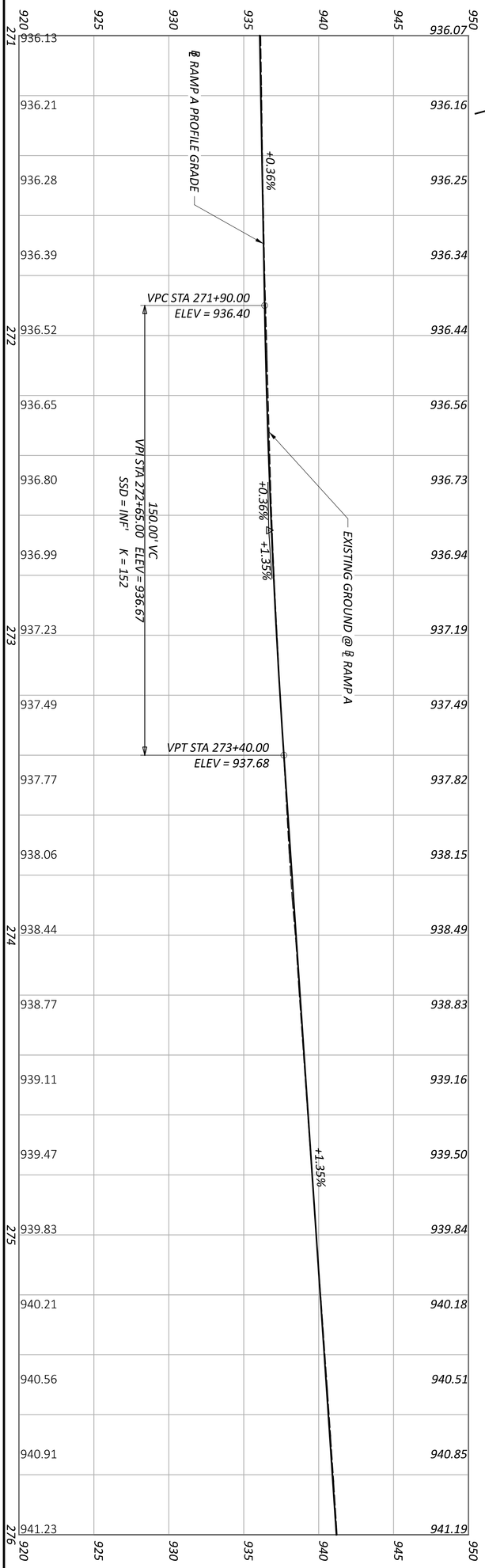
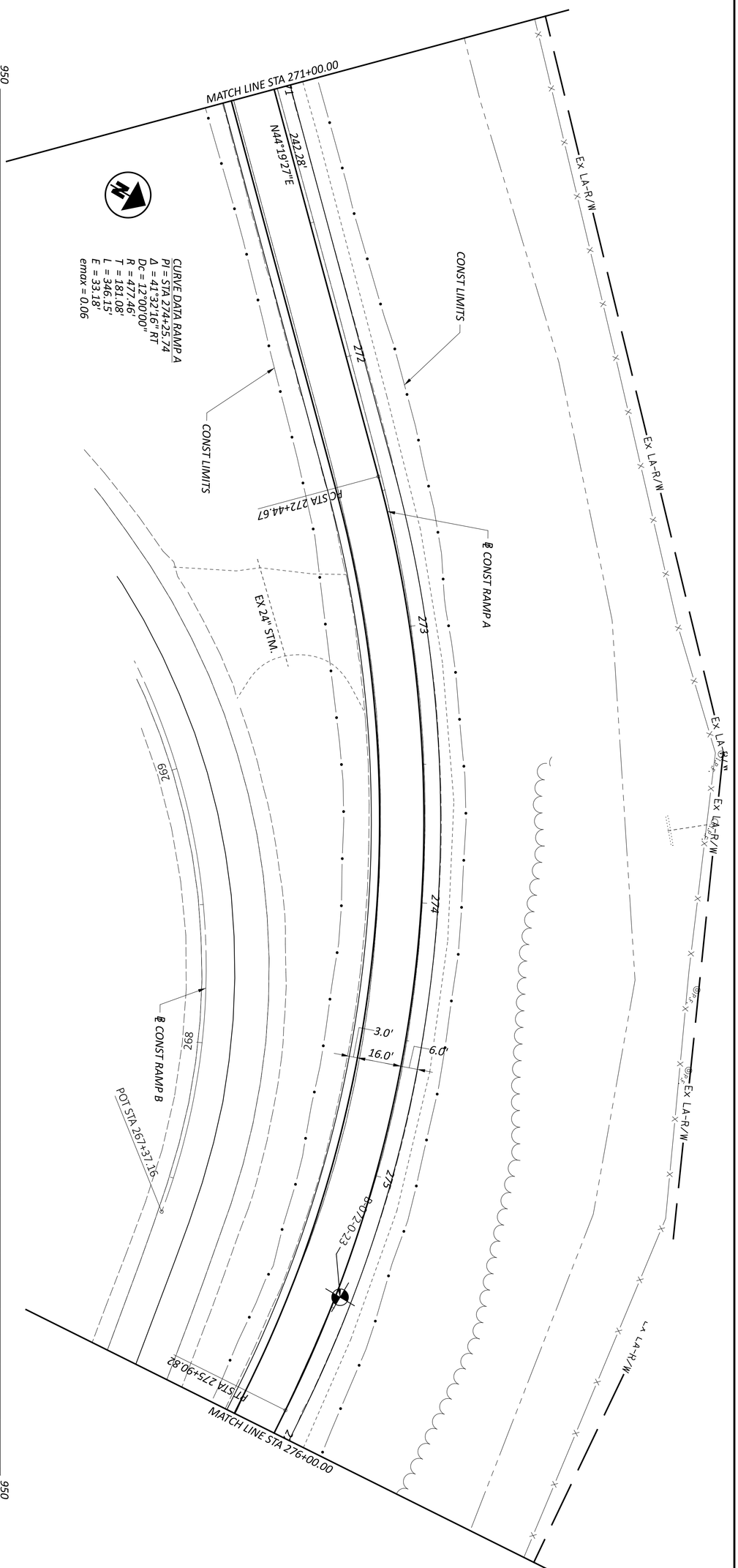
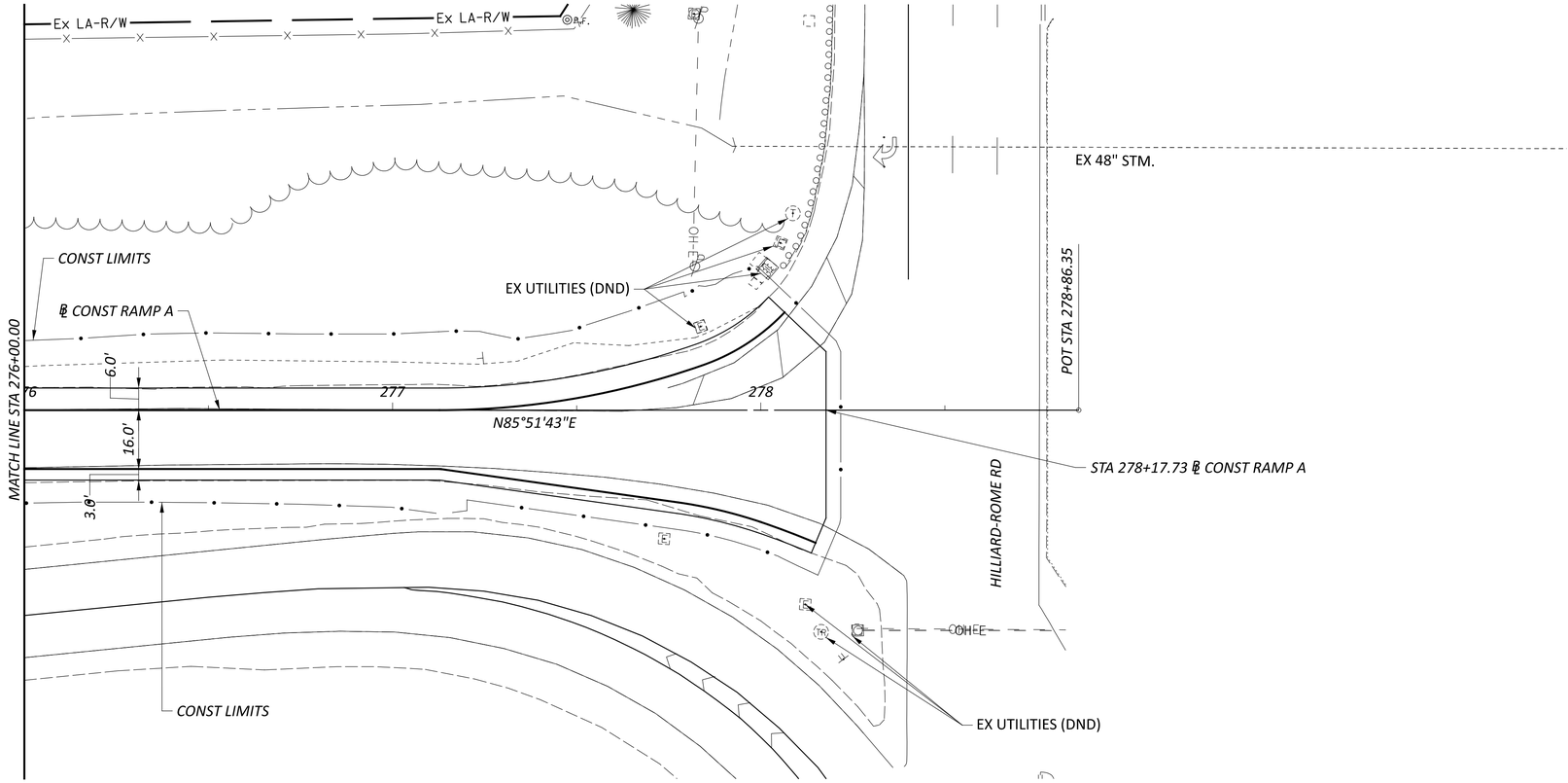
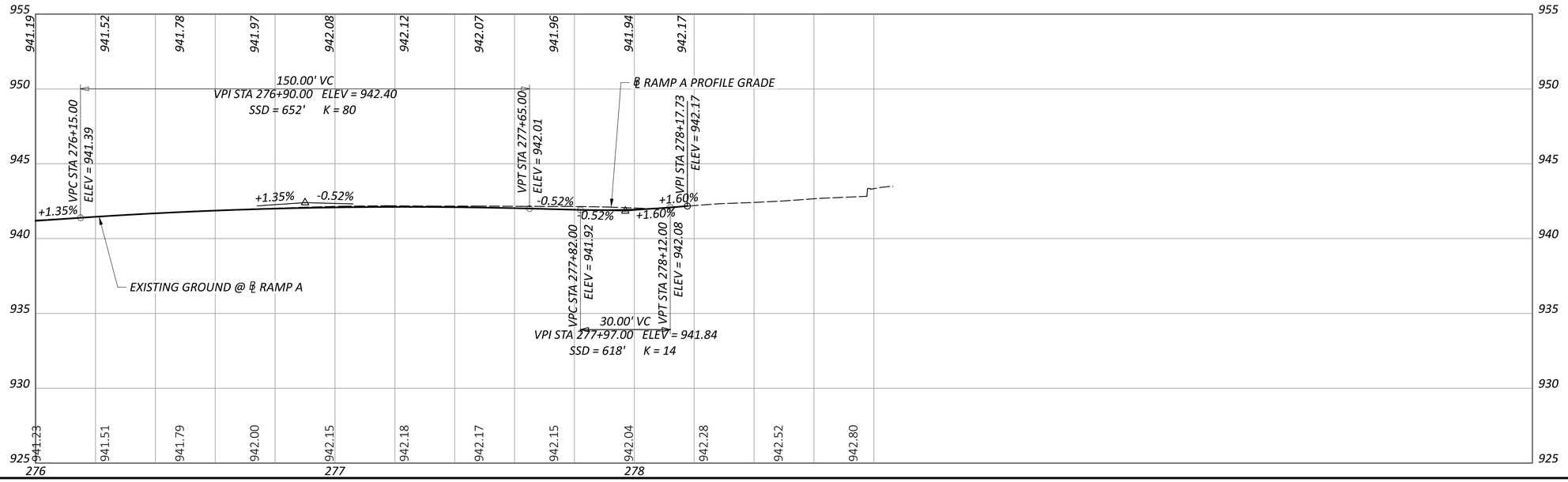




SHEET P.211 TOTAL 577	PROJECT ID 116949	REVIEWER AJL 08/23/24	DESIGNER JJD	AMERICAN STRUCTUREPOINT INC. DESIGN AGENCY	PLAN AND PROFILE - RAMP A STA 271+00.00 TO STA 276+00.00

HORIZONTAL SCALE IN FEET
0 20
10 40





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP A
STA 276+00.00 TO STA 278+86.35

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.212
TOTAL	577

FRA-70-00.00

MODEL: BLP_R070A - Plan 4 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:27 PM USER: AMerrill
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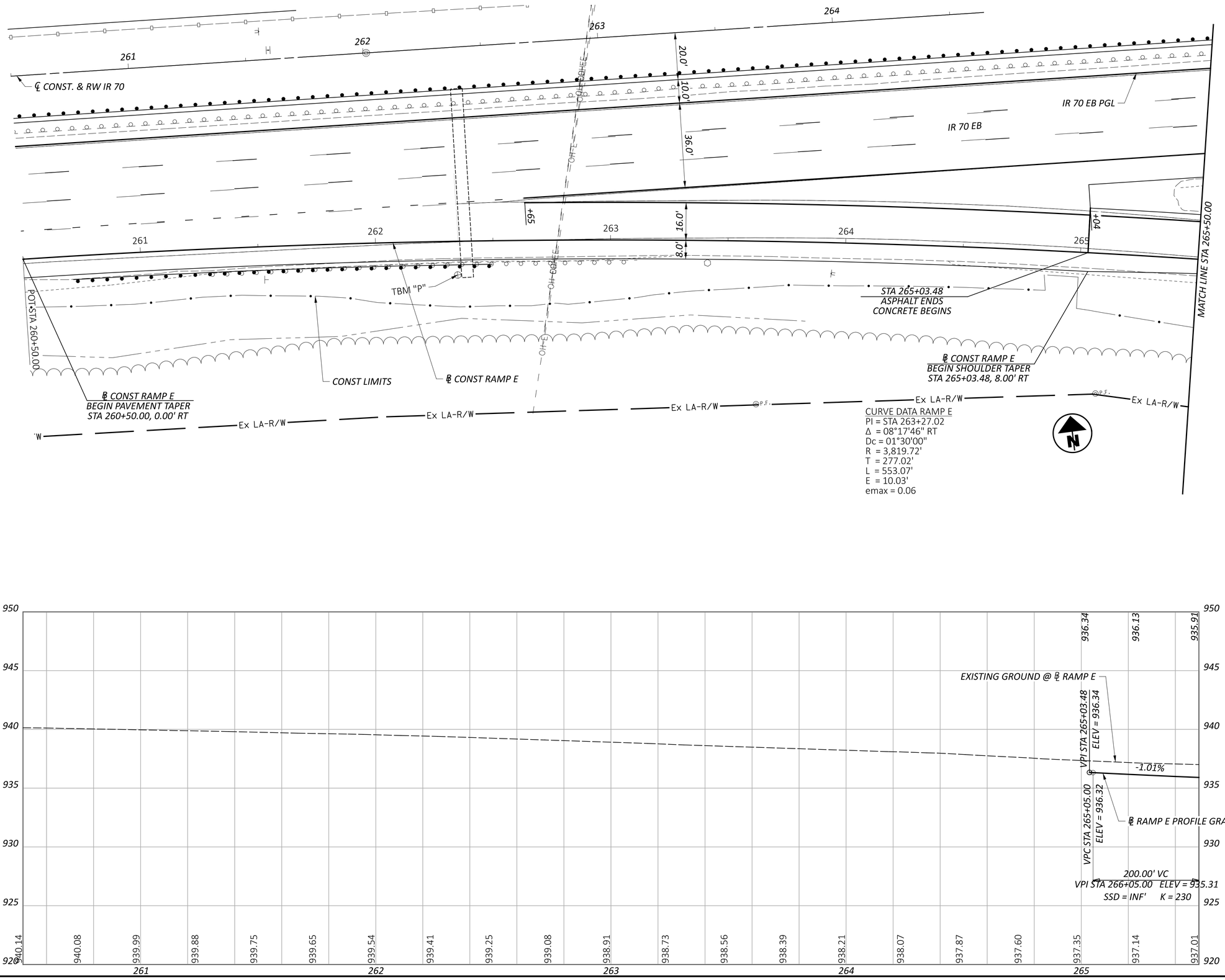

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP E
STA 260+50.00 TO STA 265+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.213 TOTAL 577

FRA-70-00.00

MODEL: CLX_R070E - Plan 5 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:29 PM USER: AMerrill
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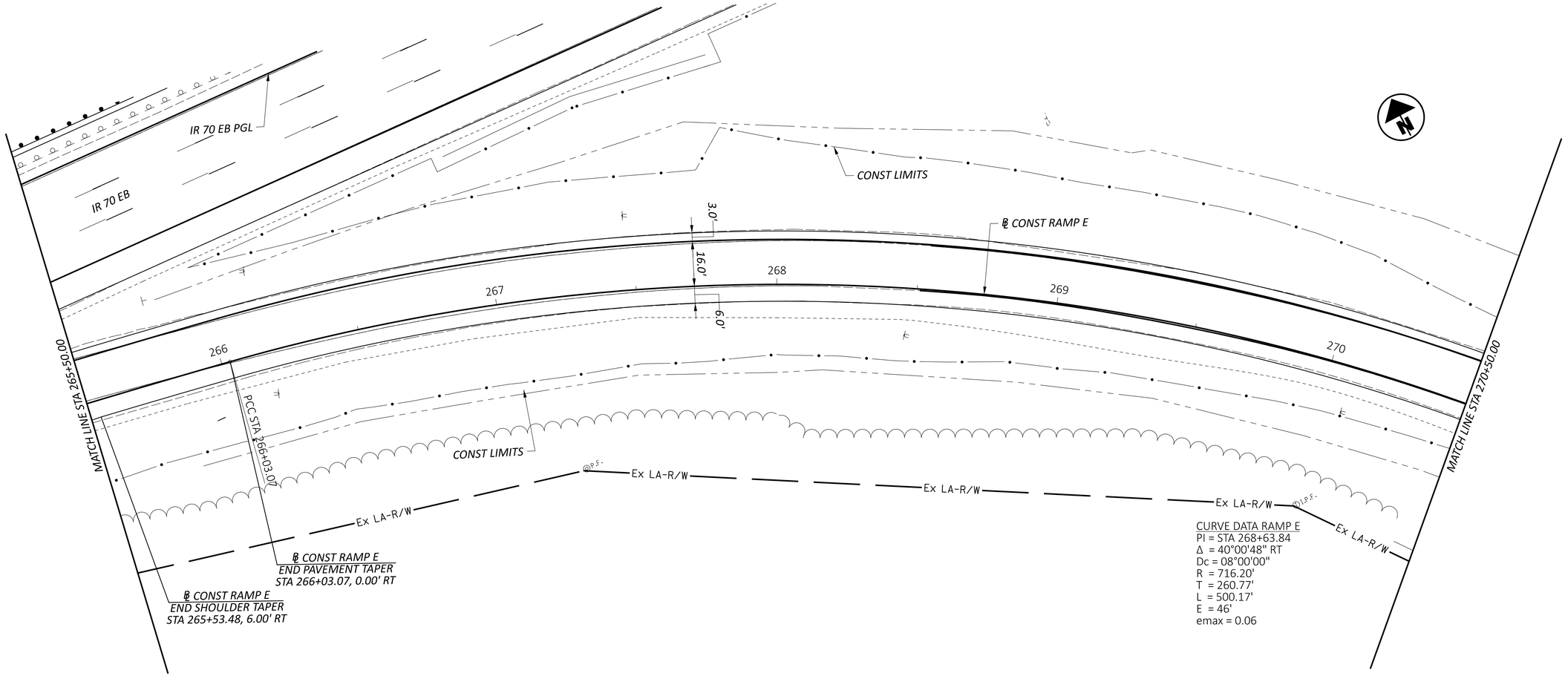

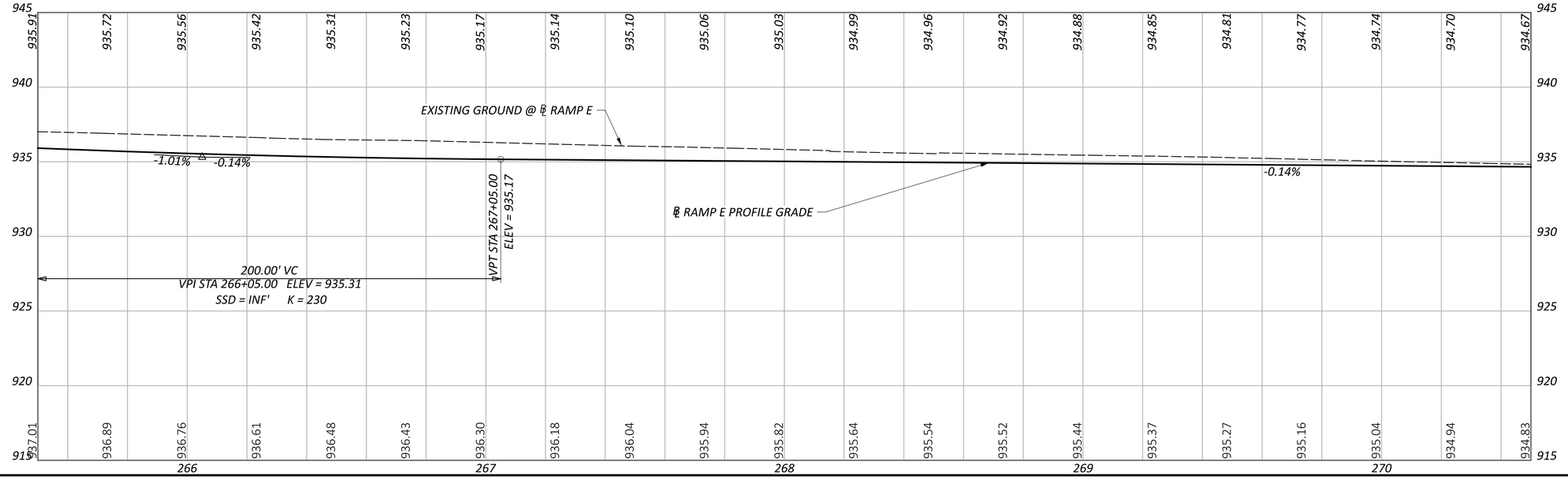

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP E
STA 265+50.00 TO 270+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.214 TOTAL 577

FRA-70-00.00

MODEL: CLX_R070E - Plan 6 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:30 PM USER: AMerrill
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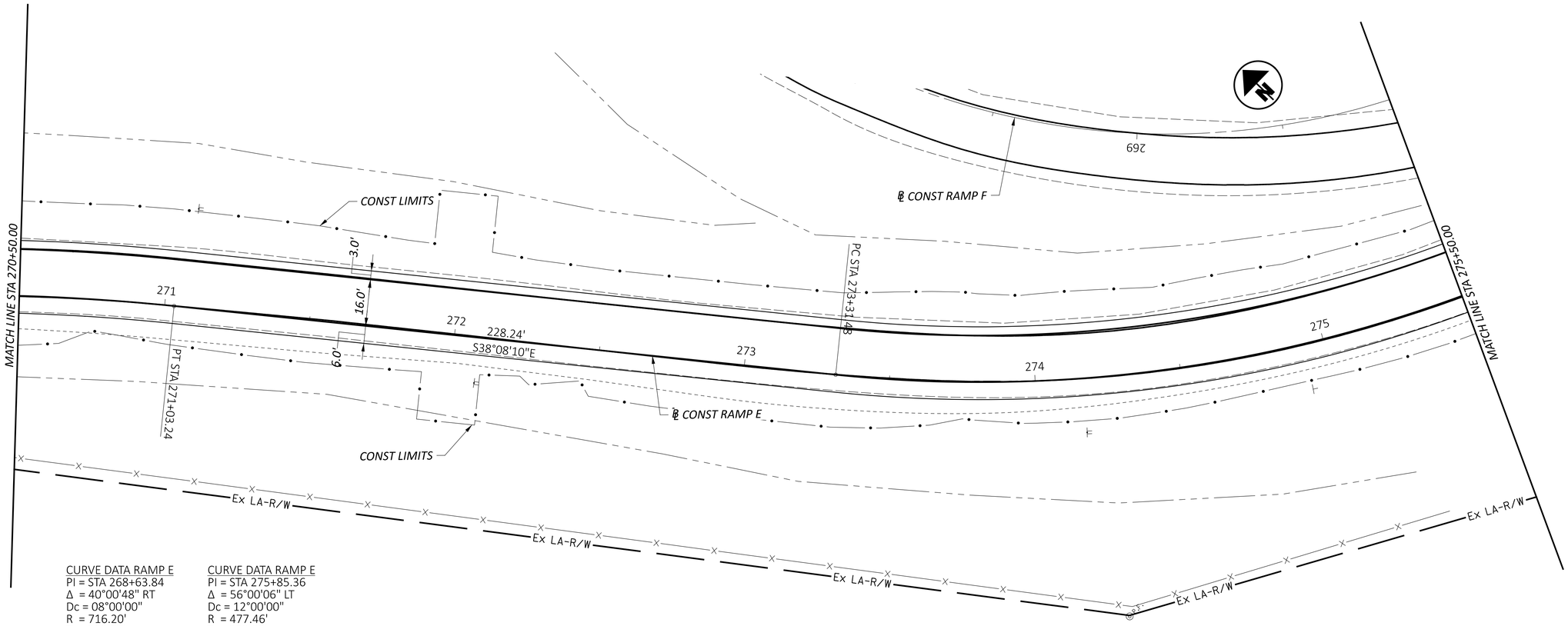

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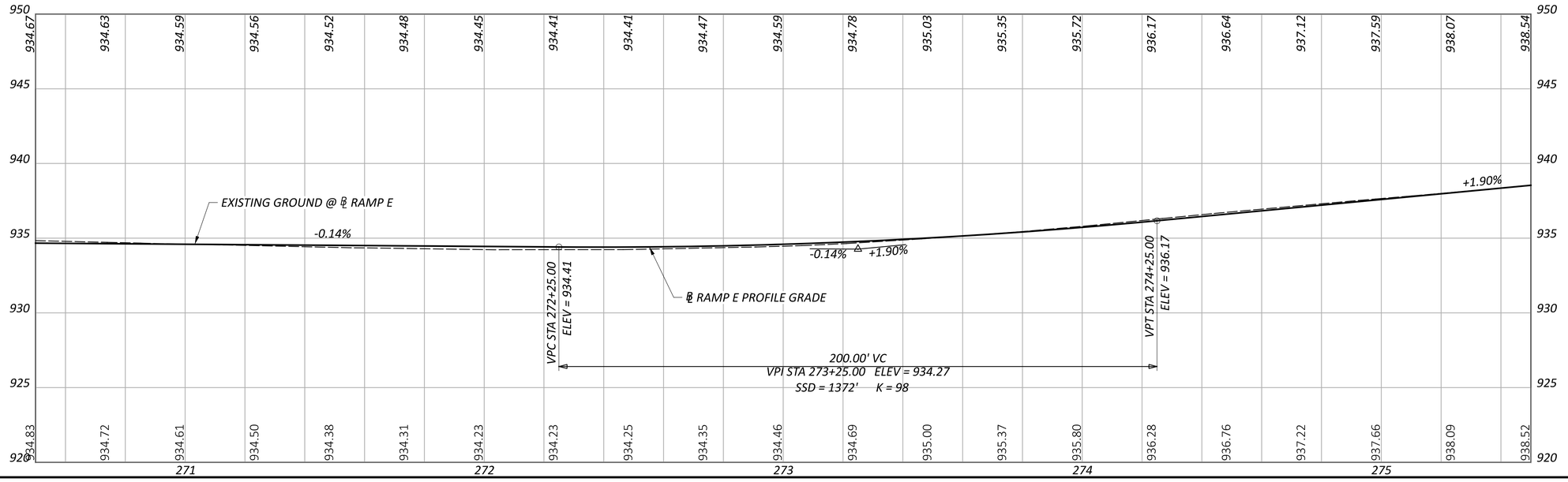
Δ = 40°00'48" RT
Dc = 08°00'00"
R = 716.20'
T = 260.77'
L = 500.17'
E = 46'
emax = 0.06

CURVE DATA RAMP E
PI = STA 275+85.36
Δ = 56°00'06" LT
Dc = 12°00'00"
R = 477.46'
T = 253.88'
L = 466.68'
E = 63.30'
emax = 0.06



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP E
STA 270+50.00 TO STA 275+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER JJD
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.215 TOTAL 577

FRA-70-00.00

MODEL: CLX_R070E - Plan 7 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:32 PM USER: AMerrill
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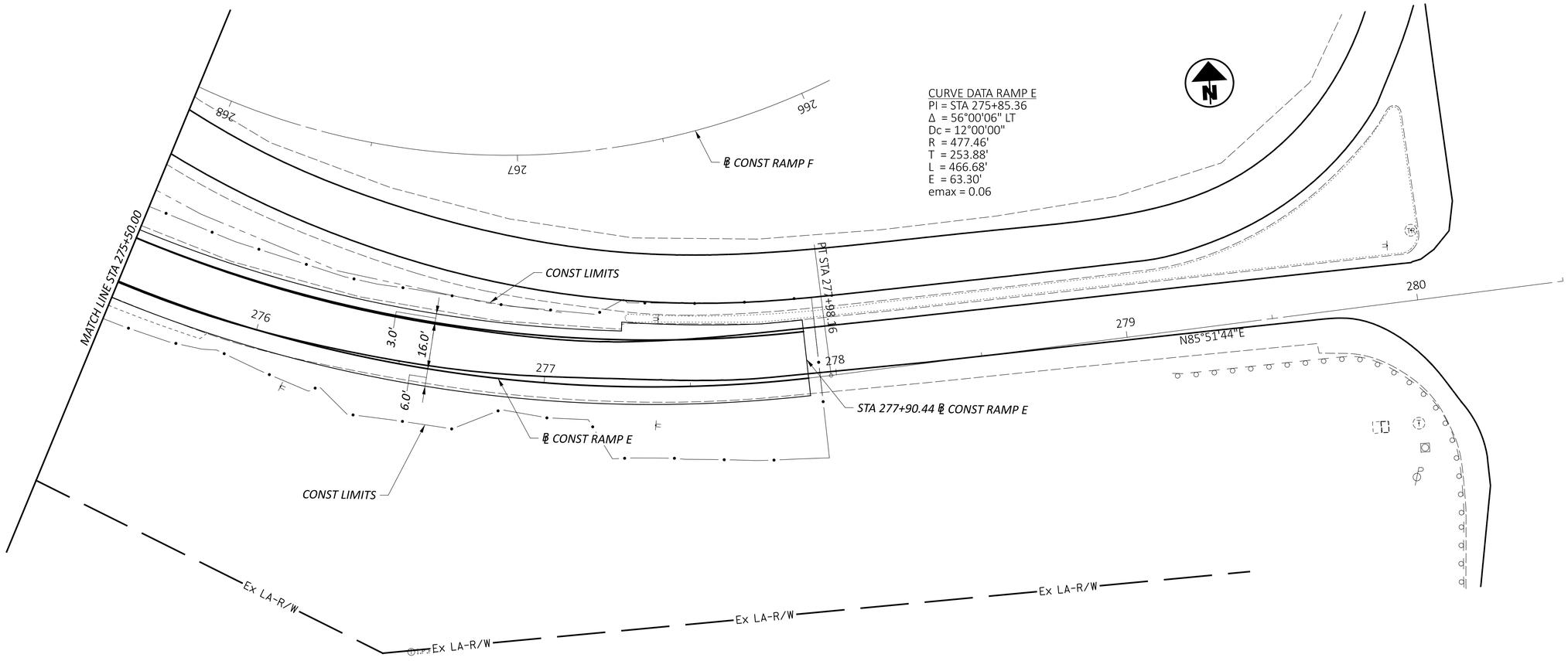

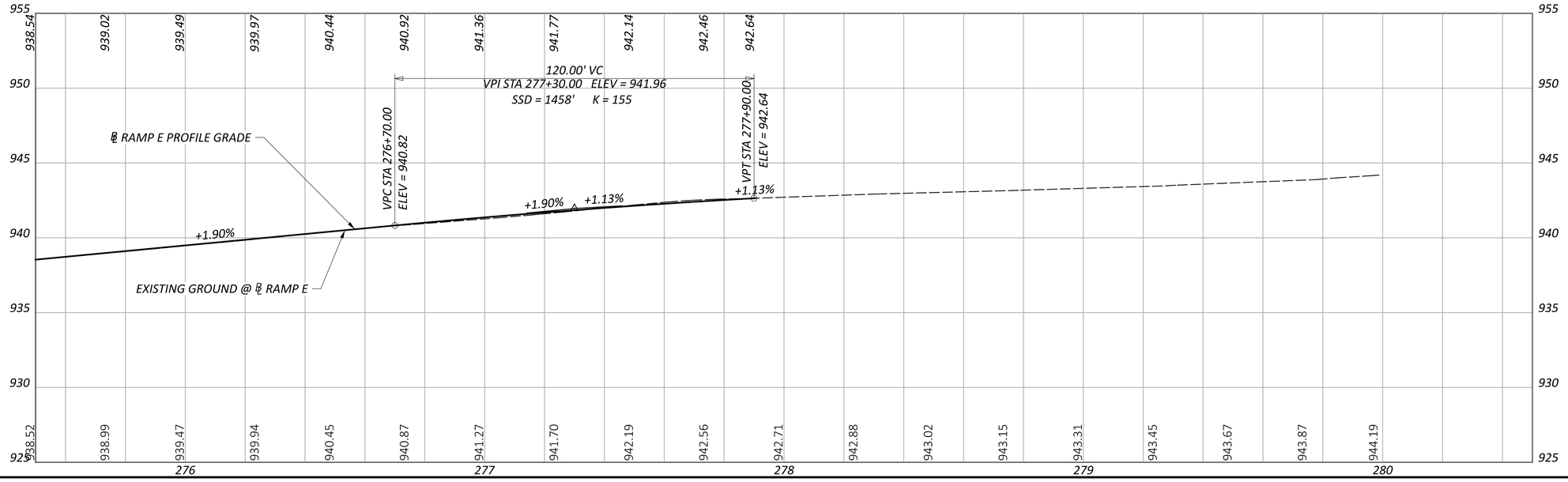

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - RAMP E
STA 275+50.00 TO STA 280+50.00

FRA-70-00.00

MODEL: CLX_R070E - Plan 8 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:05:34 PM USER: AMerrill
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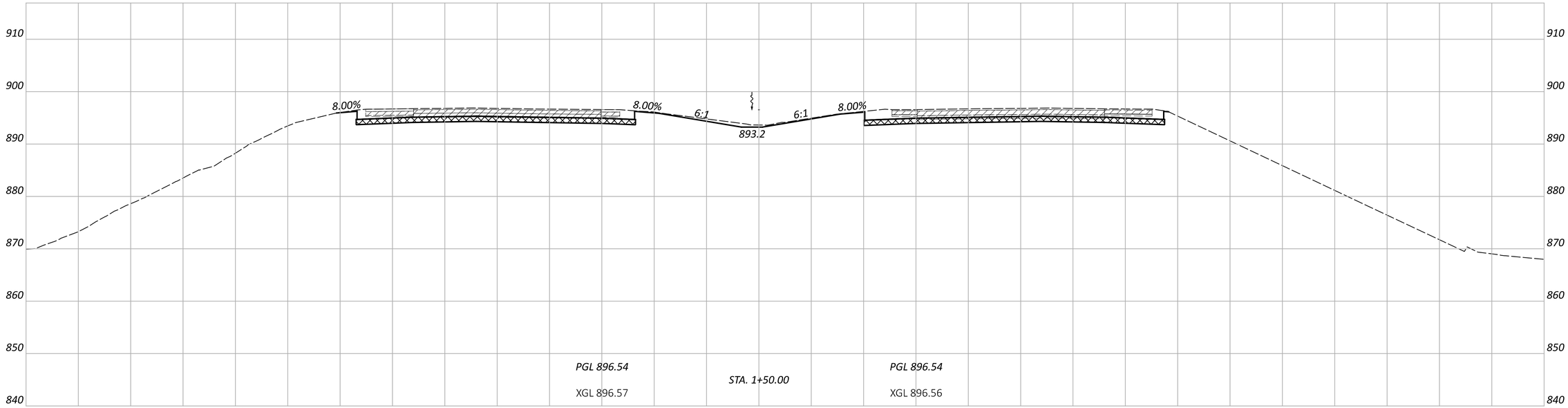
DESIGN AGENCY
STRUCTUREPOINT LLC

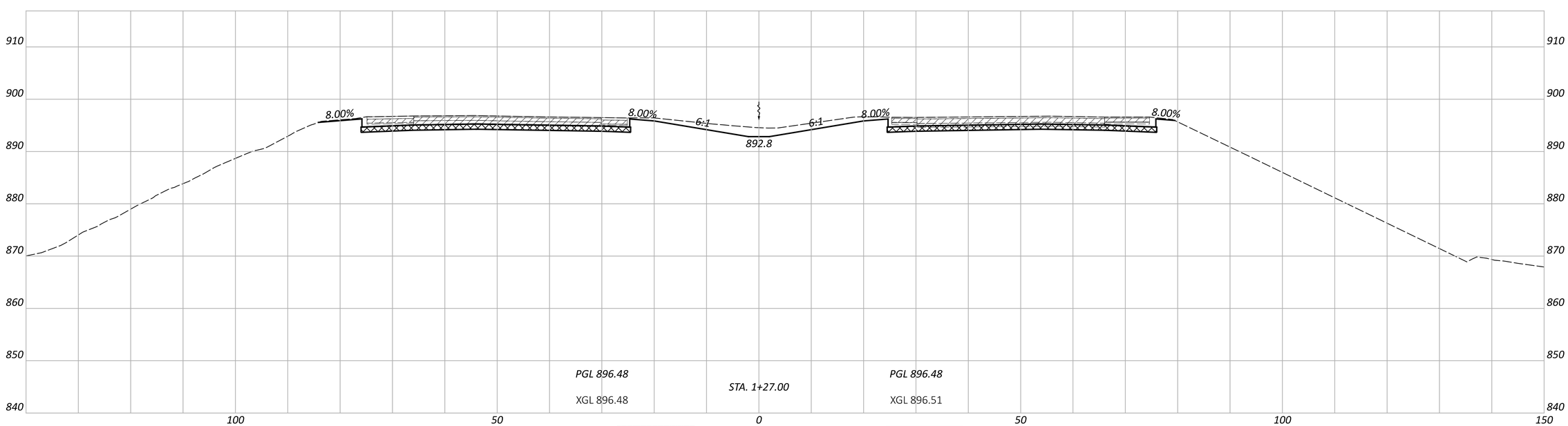
DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.216 TOTAL 577





CROSS SECTION LEGEND: CEMENT STABILIZED SUBGRADE EXISTING PAVEMENT

CROSS SECTIONS - IR 70
STA 1+27.00 TO STA 1+50.00

FRA-70-00.00

MODEL: CLP_I070 - 1+27.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:17:32 PM USER: AMerrill
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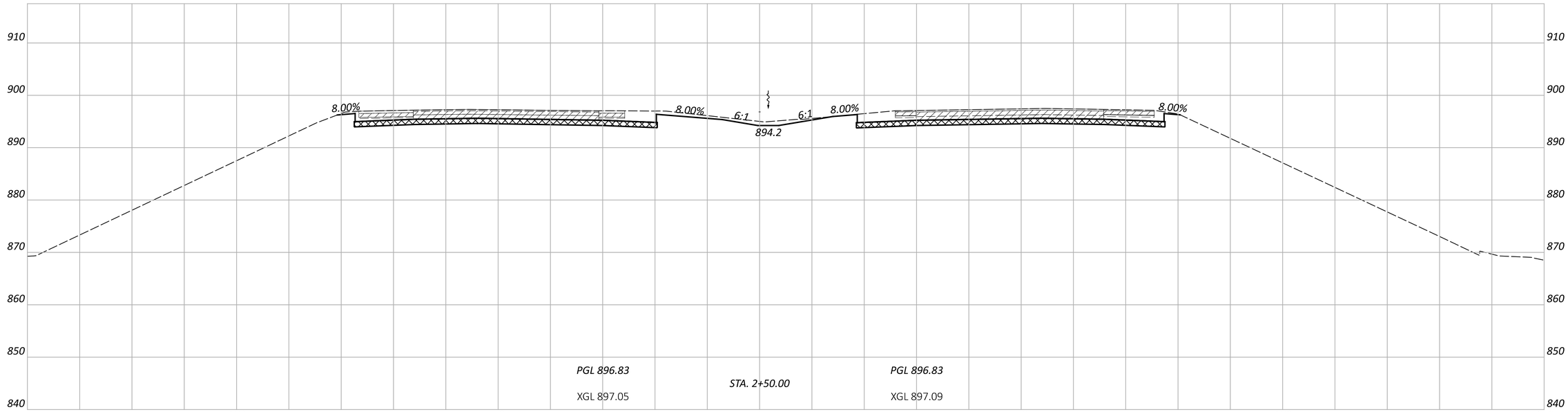
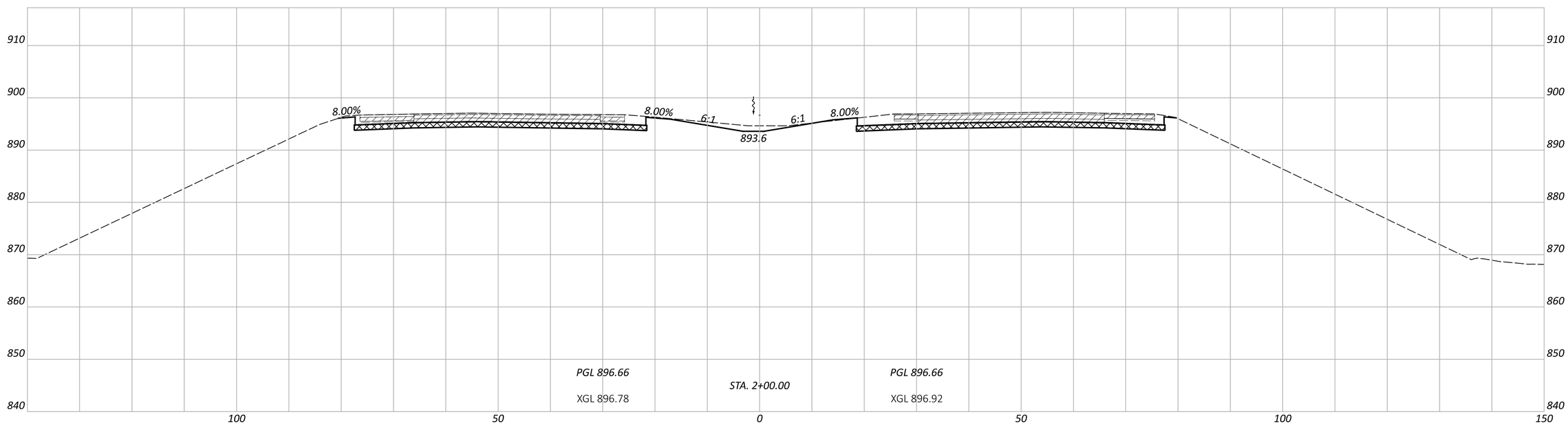
DESIGN AGENCY
STRUCTUREPOINT LLC
MEMPHIS

DESIGNER ARM
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.217 TOTAL 577





CROSS SECTIONS - IR 70
STA 2+00.00 TO STA 2+50.00

FRA-70-00.00

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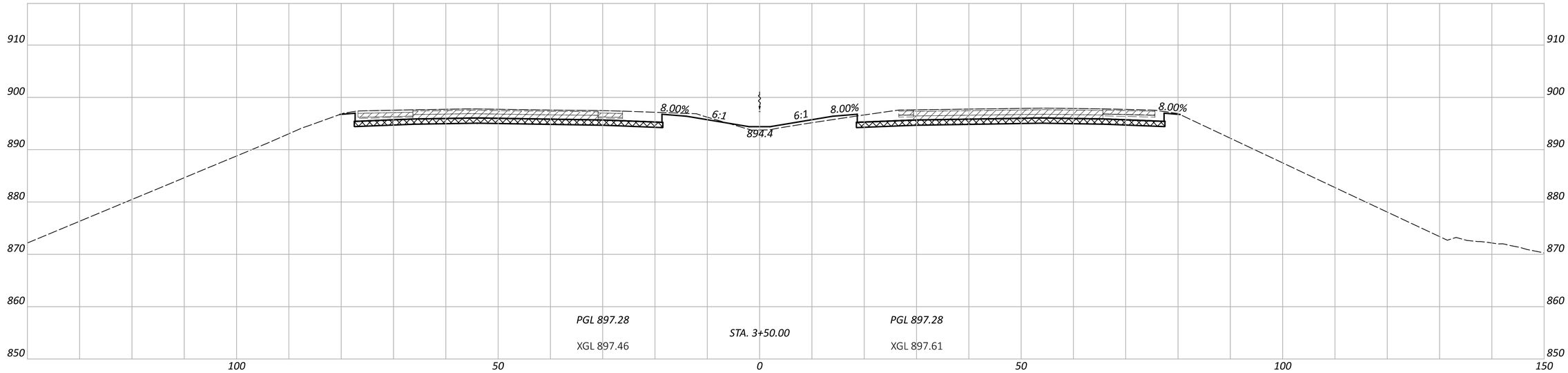
DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT LLC

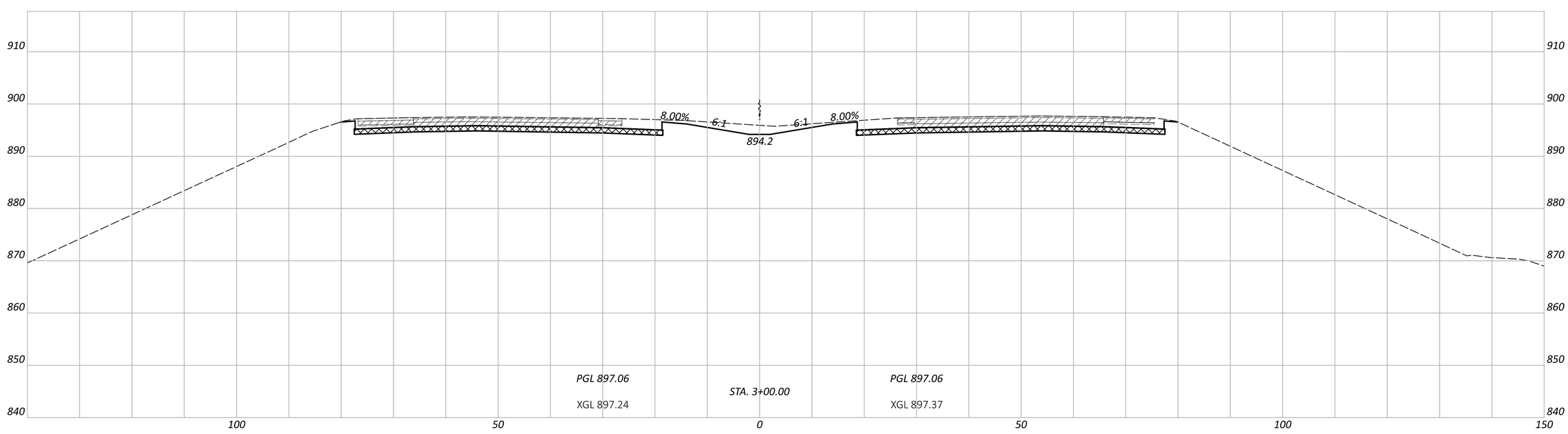
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.218 TOTAL 577





CROSS SECTIONS - IR 70
STA 3+00.00 TO STA 3+50.00

FRA-70-00.00

MODEL: CLP_I070 - 3+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:17:47 PM USER: AMerrill
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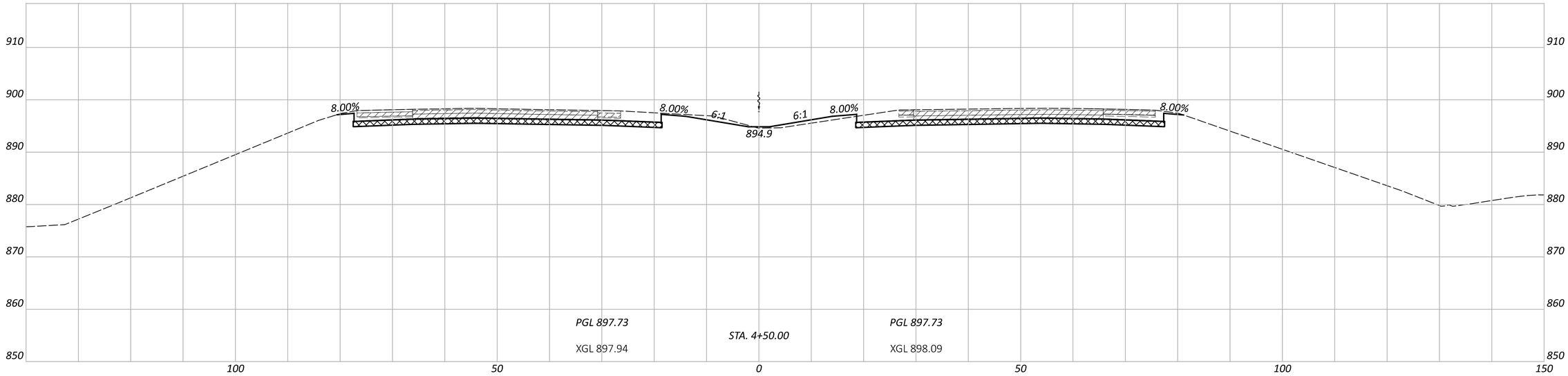
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

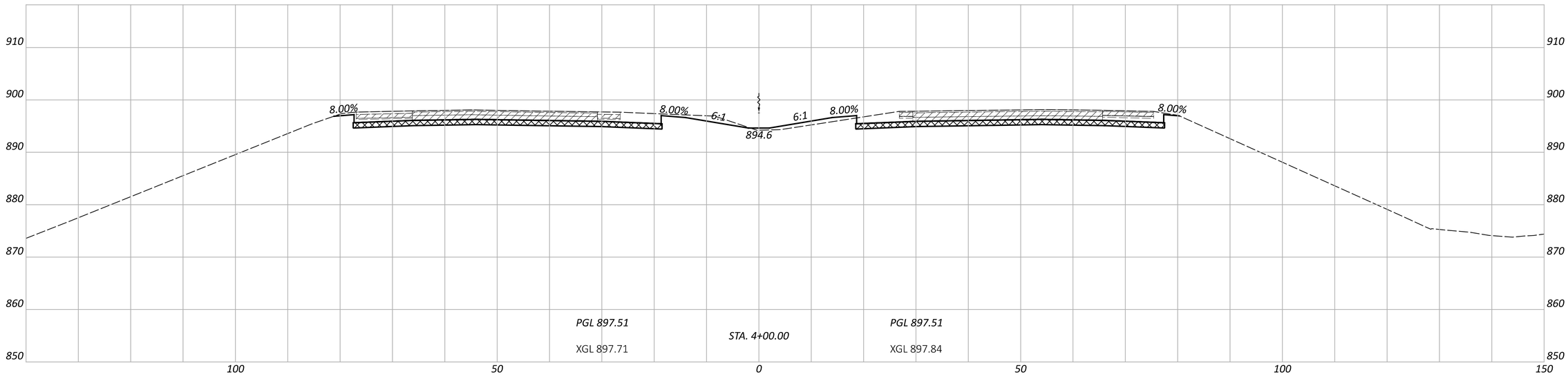
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.219 TOTAL 577





FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 4+00.00 TO STA 4+50.00

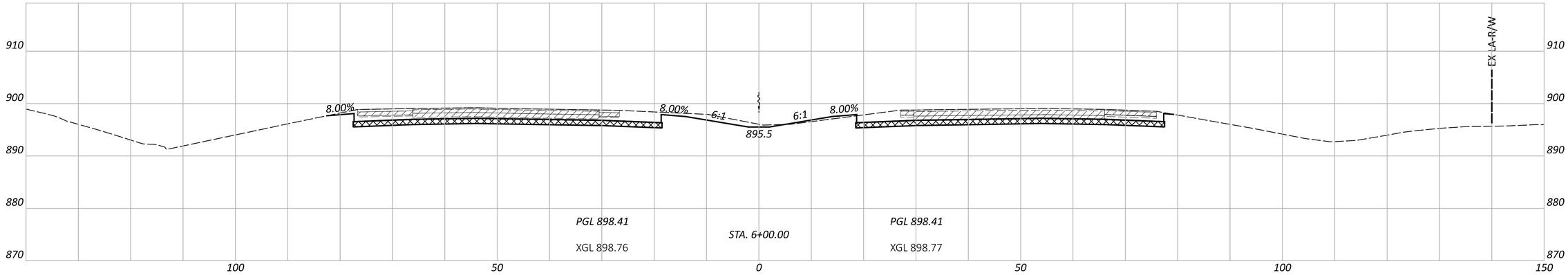
DESIGN AGENCY
STRUCTUREPOINT LLC
MEMPHIS

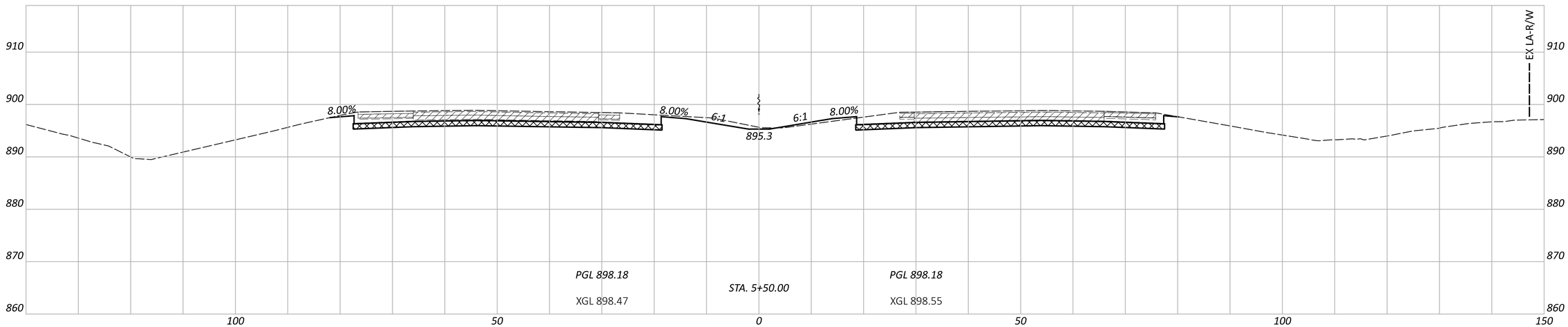
DESIGNER
ARM

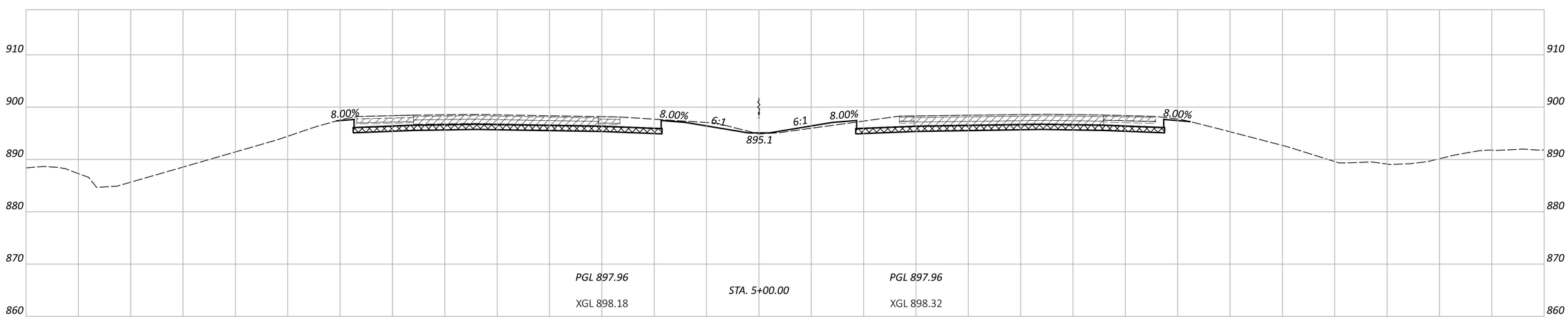
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.220 TOTAL 577







CROSS SECTIONS - IR 70
STA 5+00.00 TO STA 6+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.221 | TOTAL 577

FRA-70-00.00

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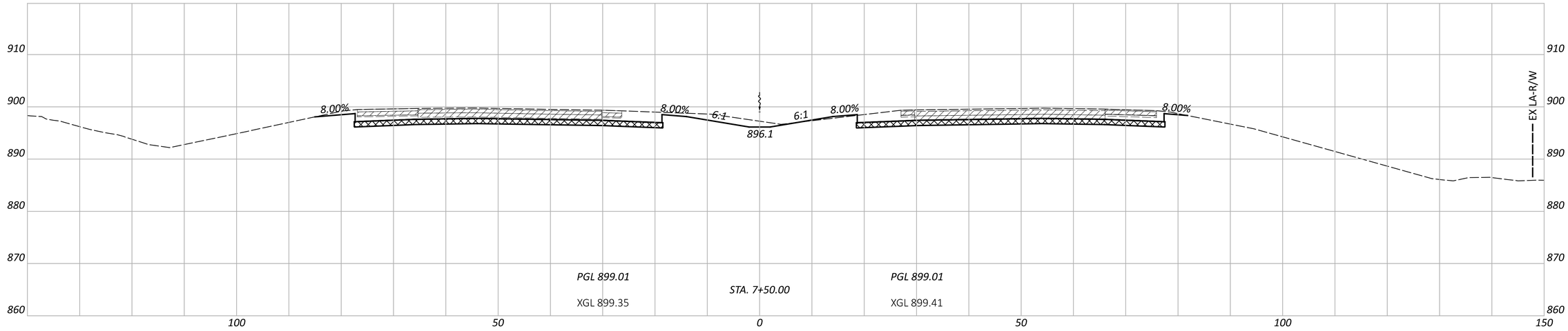

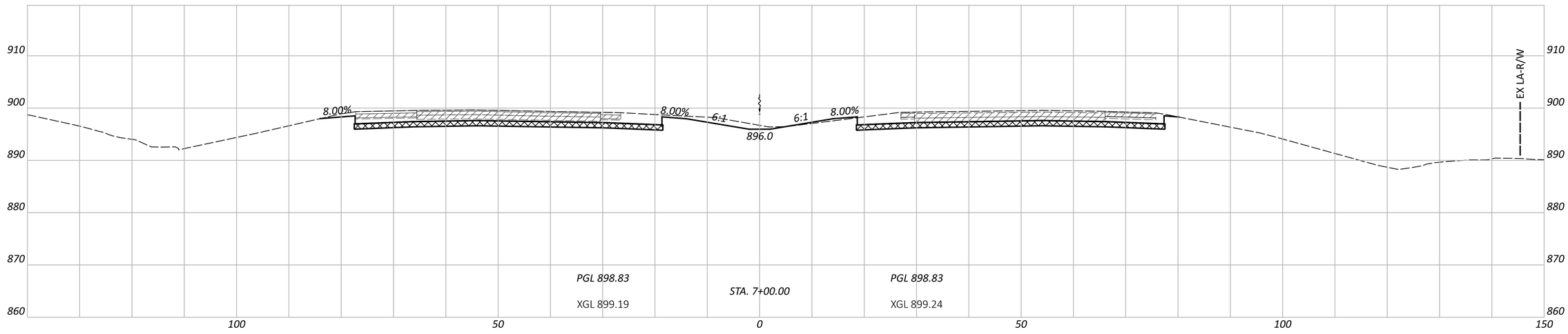

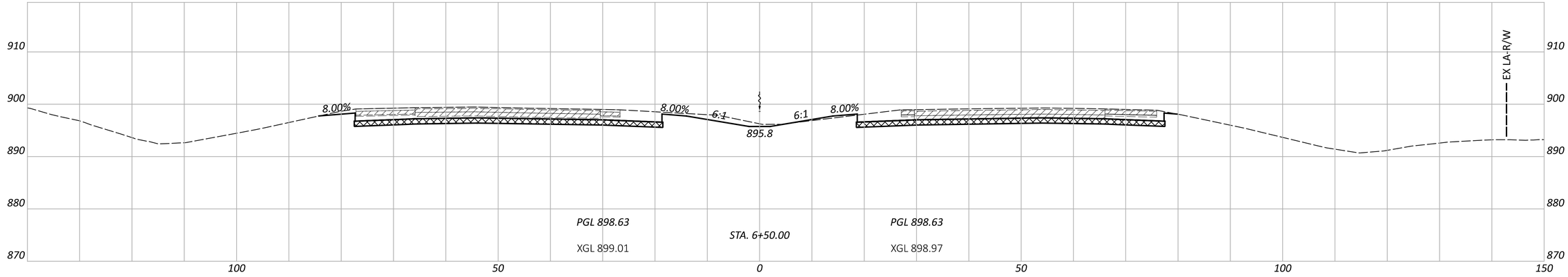

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STA 6+50.00 TO STA 7+50.00

FRA-70-00.00

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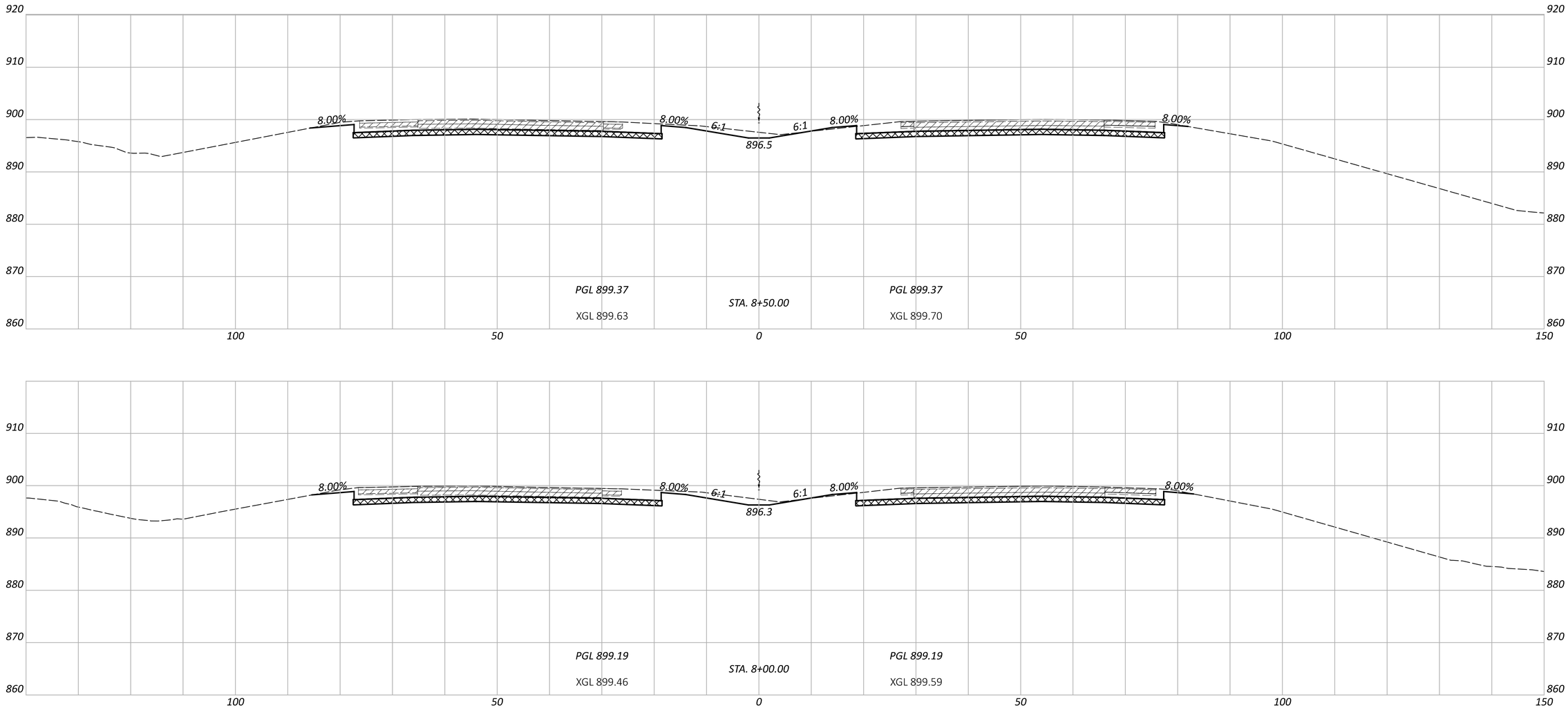
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.222 TOTAL 577



CROSS SECTIONS - IR 70
STA 8+00.00 TO STA 8+50.00

FRA-70-00.00

MODEL: CLP_I070 - 8+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:18:06 PM USER: AMerrill
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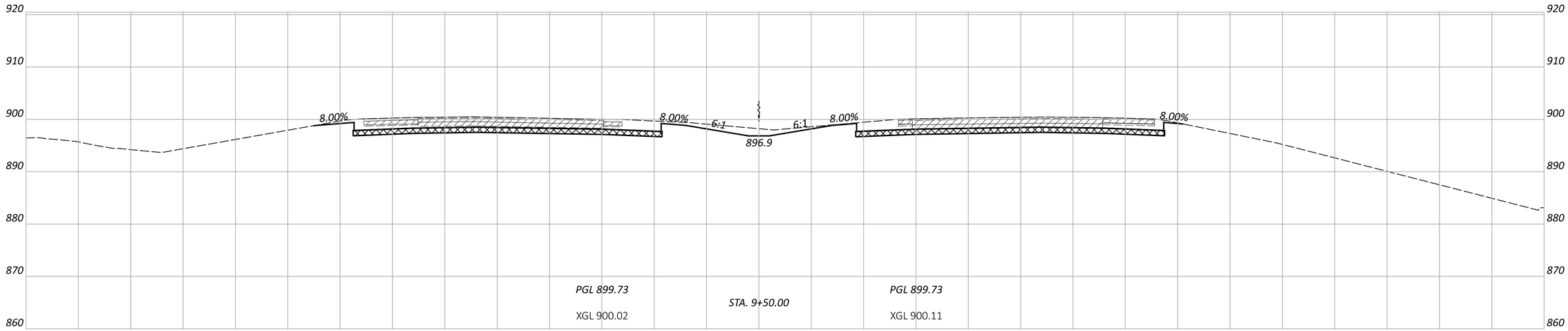
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

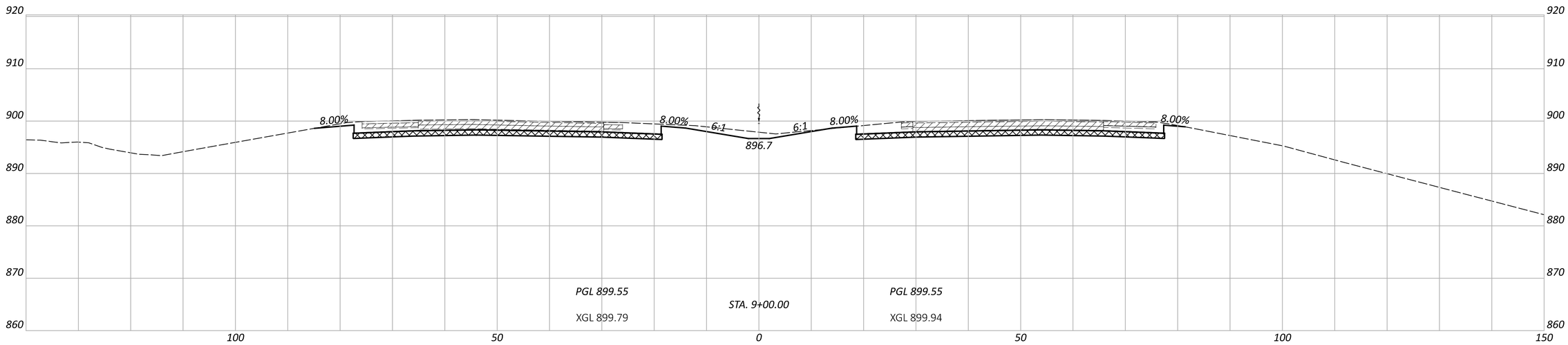
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.223 | TOTAL 577





CROSS SECTIONS - IR 70
STA 9+00.00 TO STA 9+50.00

FRA-70-00.00

MODEL: CLP_I070 - 9+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:18:10 PM USER: AMerrill
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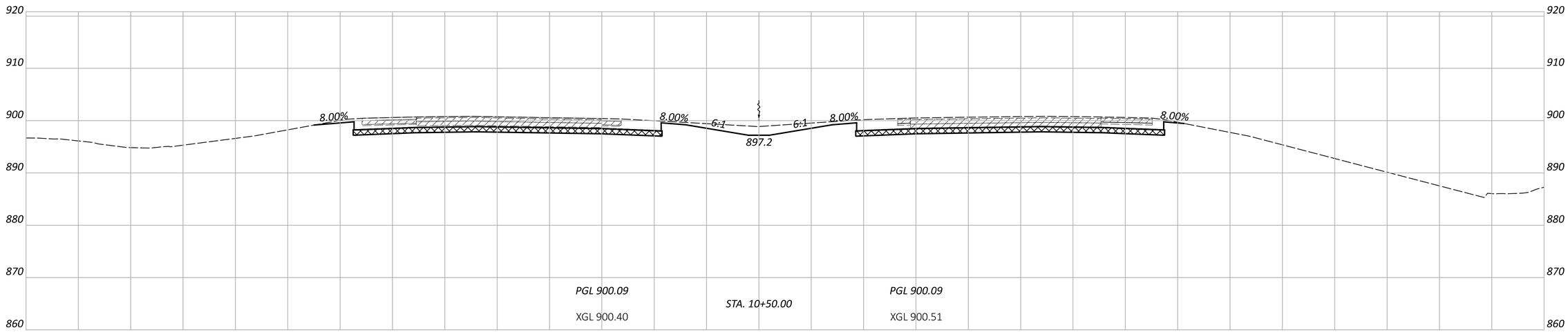
DESIGN AGENCY
STRUCTUREPOINT LLC

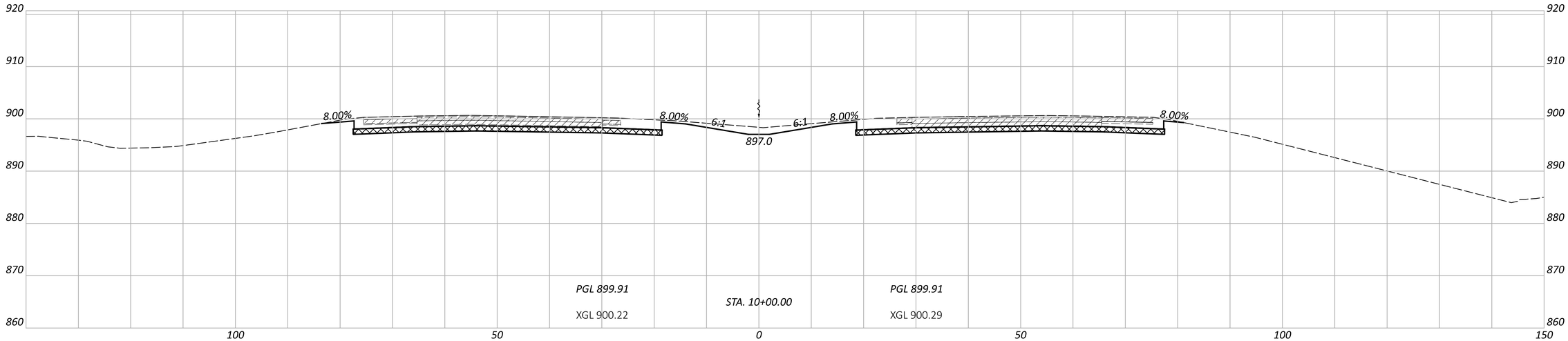
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.224 | TOTAL 577





CROSS SECTIONS - IR 70
STA 10+00.00 TO STA 10+50.00

FRA-70-00.00

MODEL: CLP_I070 - 10+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:18:14 PM USER: AMerrill
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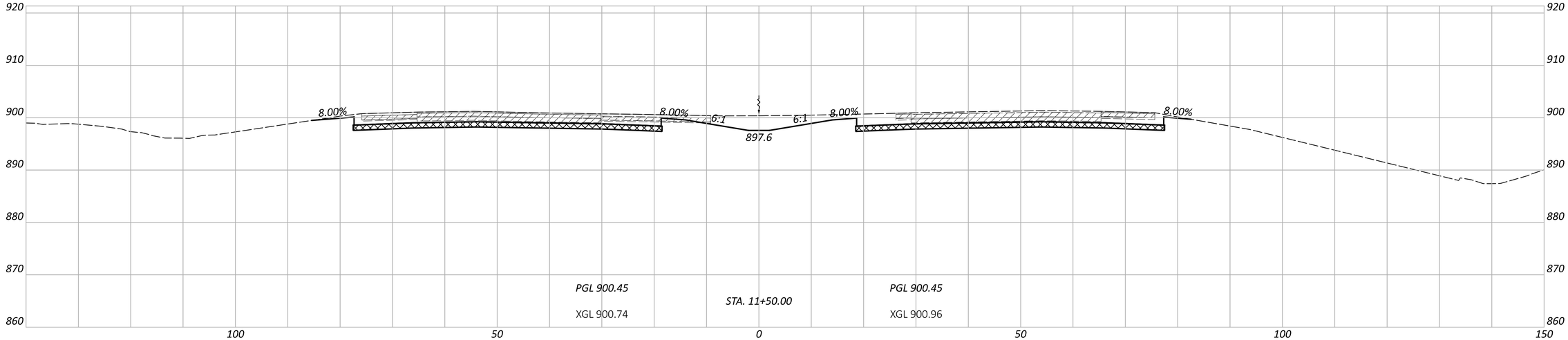
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

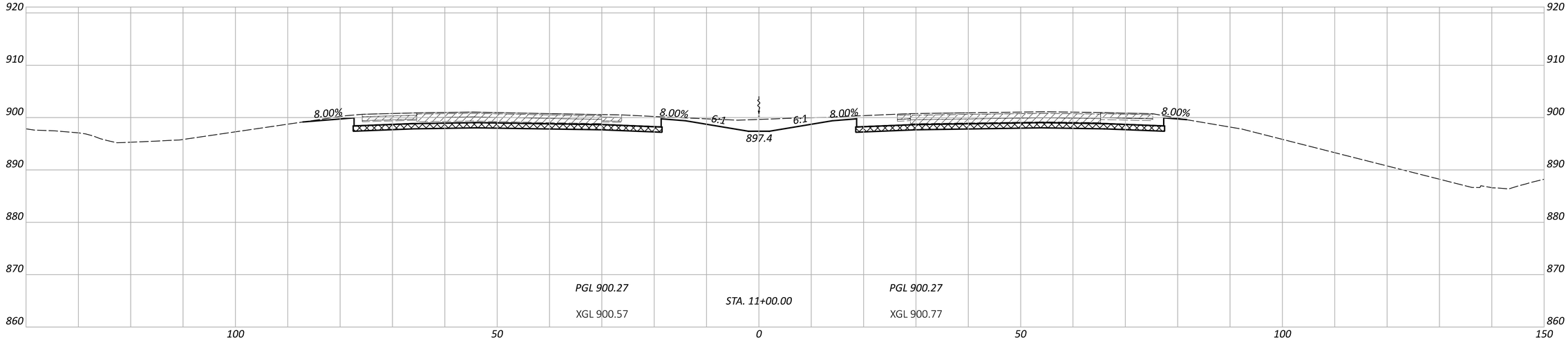
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.225 TOTAL 577





FRA-70-00.00

MODEL: CLP_I070 - 11+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:18:18 PM USER: AMerrill
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CROSS SECTIONS - IR 70
STA 11+00.00 TO STA 11+50.00

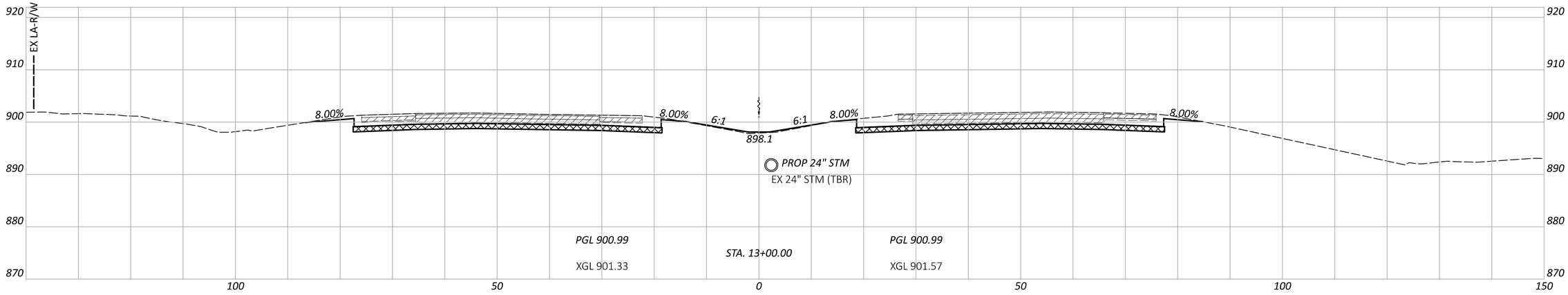
DESIGN AGENCY
STRUCTUREPOINT

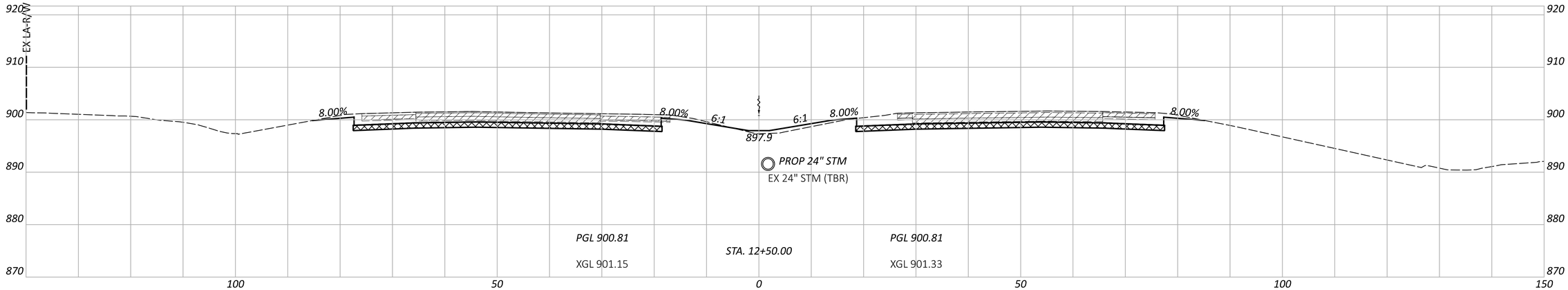
DESIGNER
ARM

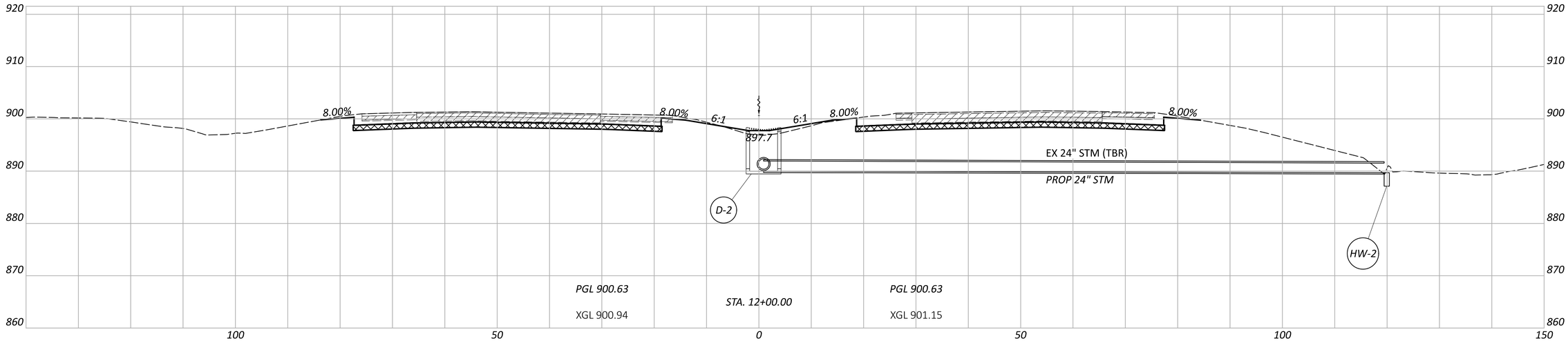
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.226 | TOTAL 577







CROSS SECTIONS - IR 70
STA 12+00.00 TO STA 13+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.227 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 12+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:18:22 PM USER: AMerrill
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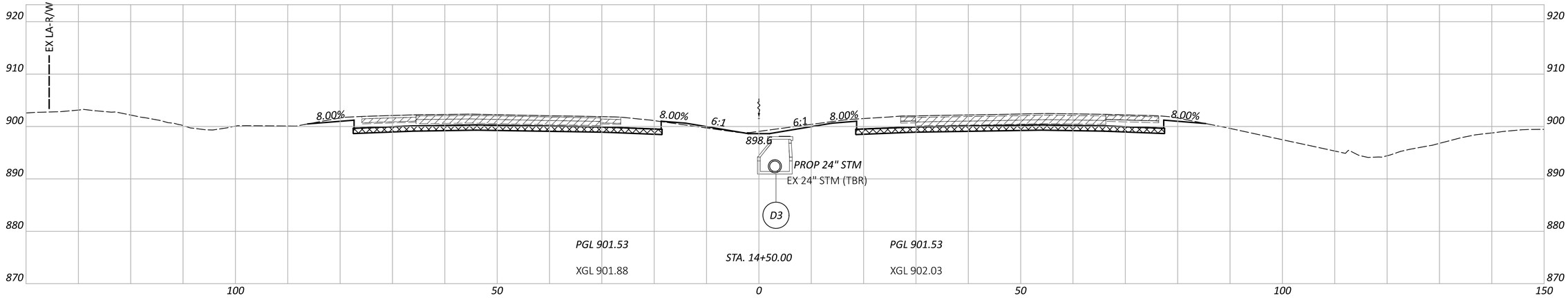

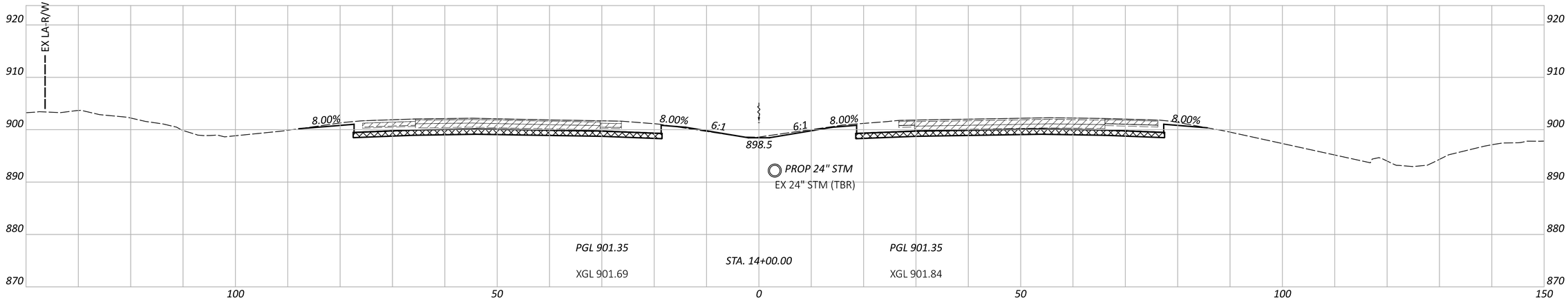

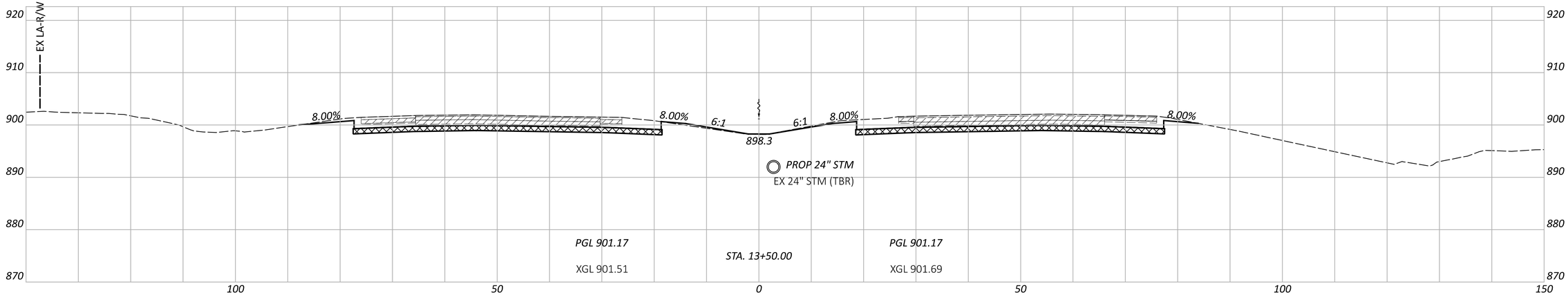

CROSS SECTIONS - IR 70
STA 13+50.00 TO STA 14+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.228 | TOTAL 577

FRA-70-00.00

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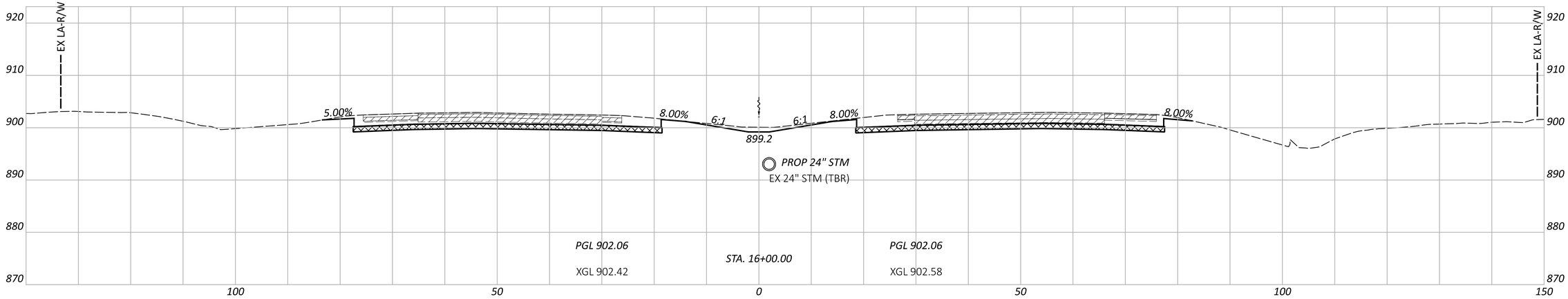

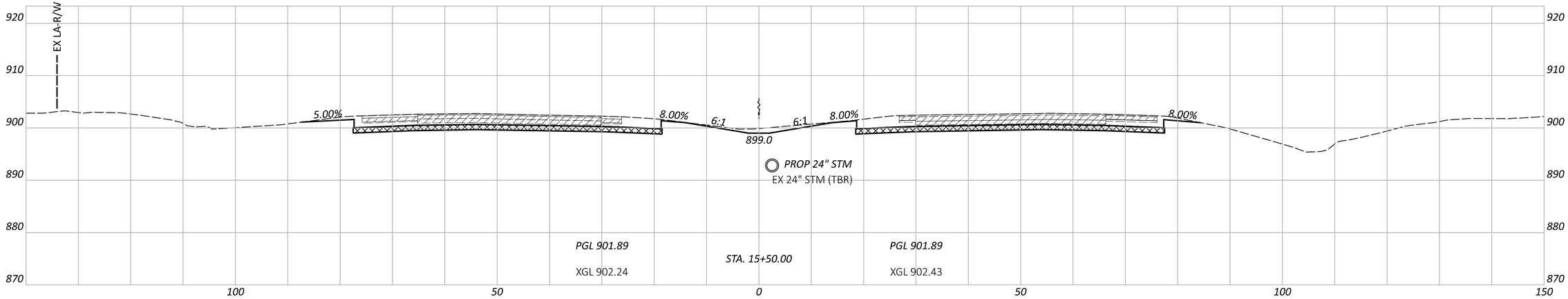

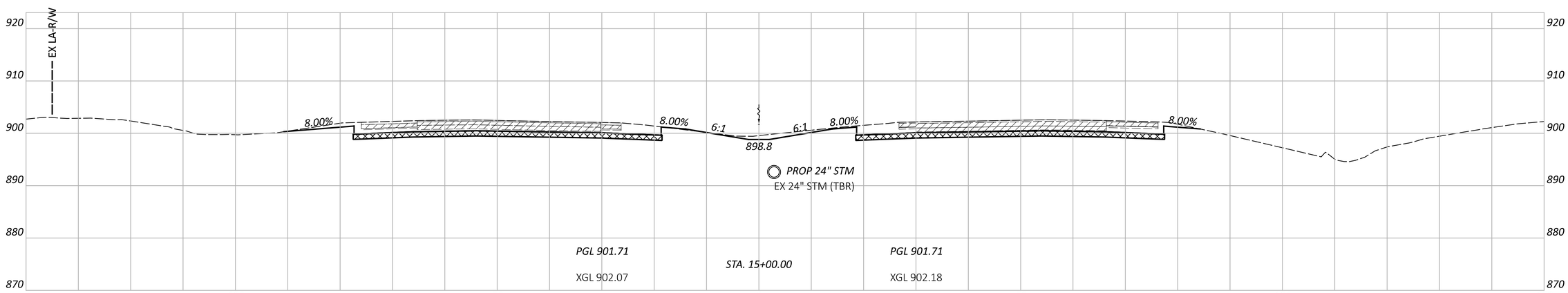

CROSS SECTIONS - IR 70
STA 15+00.00 TO STA 16+00.00

FRA-70-00.00

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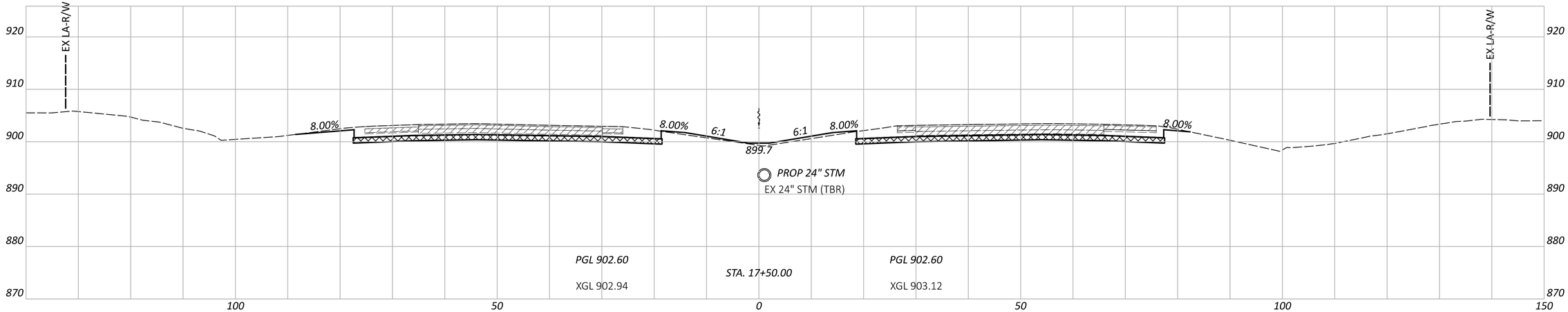
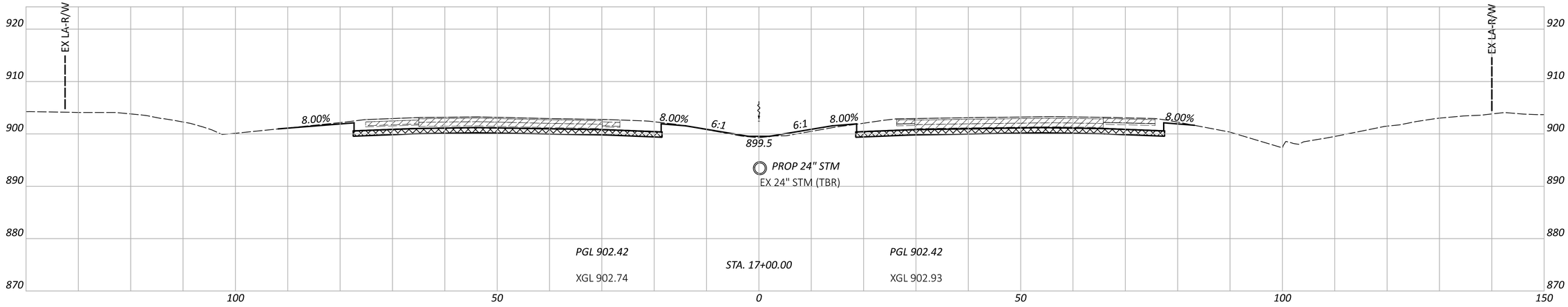
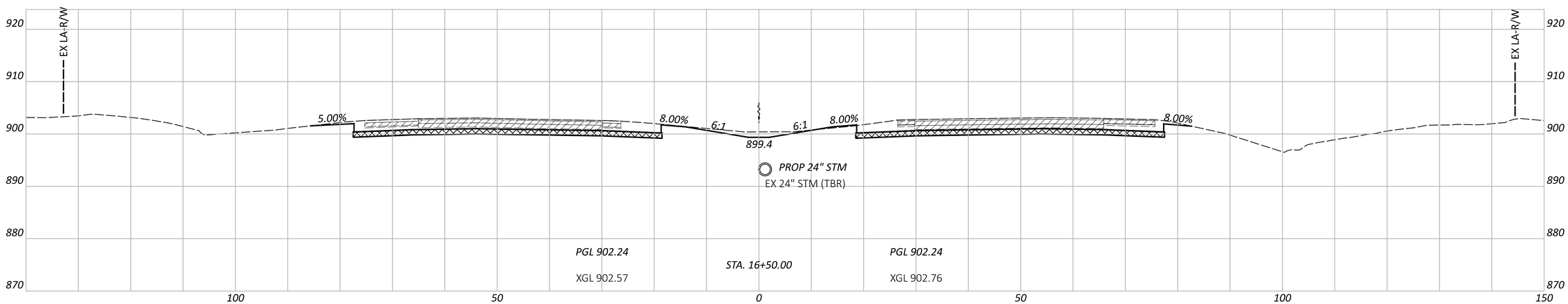
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.229
TOTAL	577







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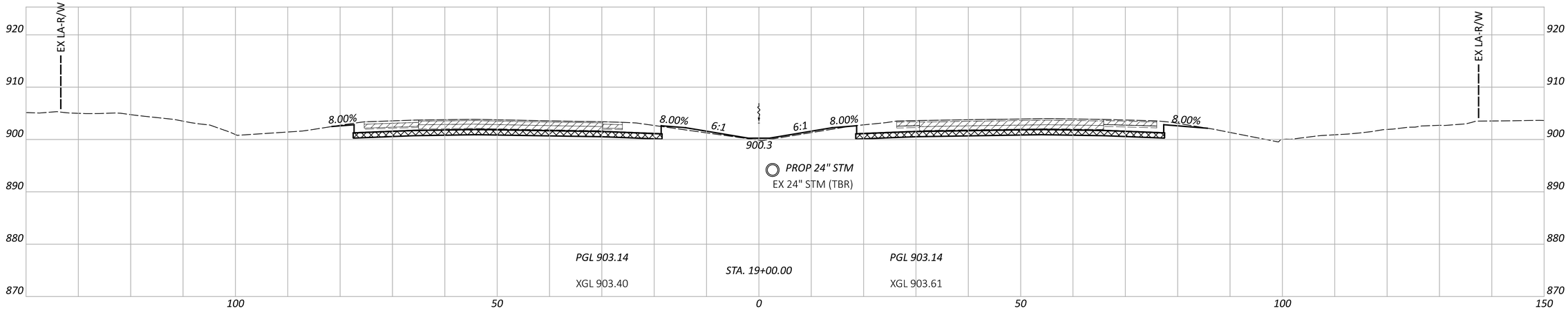
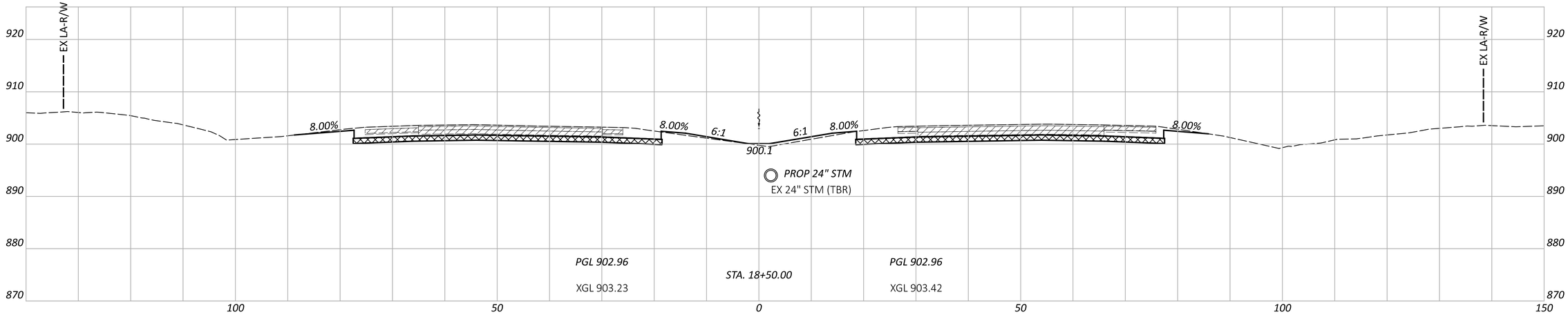
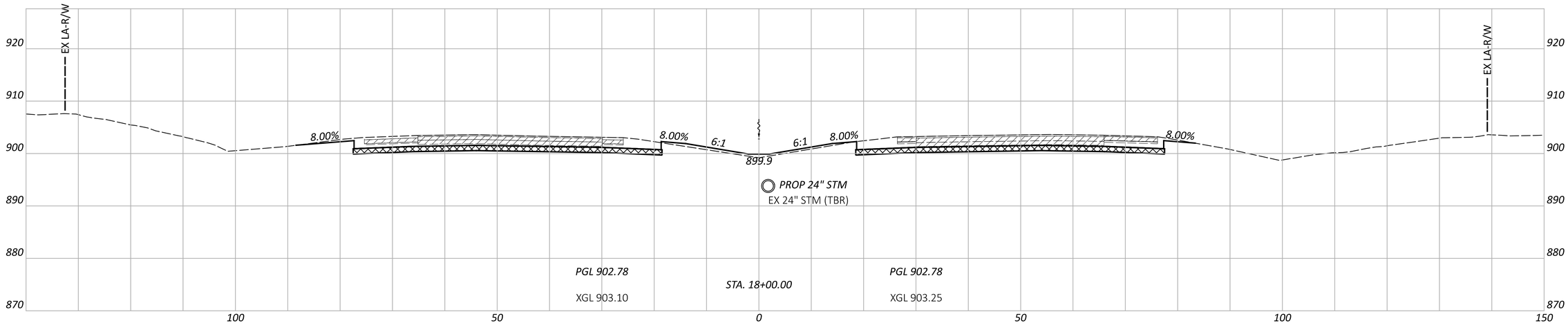
CROSS SECTIONS - IR 70
STA 16+50.00 TO STA 17+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.230
TOTAL	577







CROSS SECTIONS - IR 70
STA 18+00.00 TO STA 19+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.231 | TOTAL 577

FRA-70-00.00

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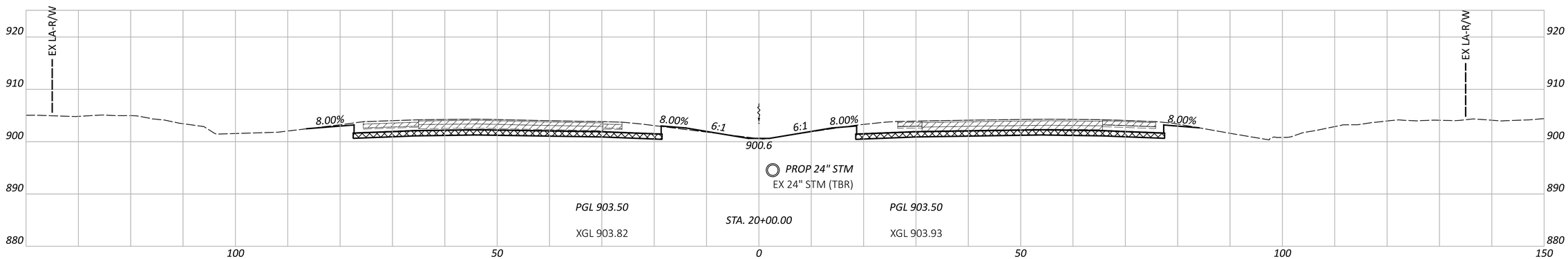

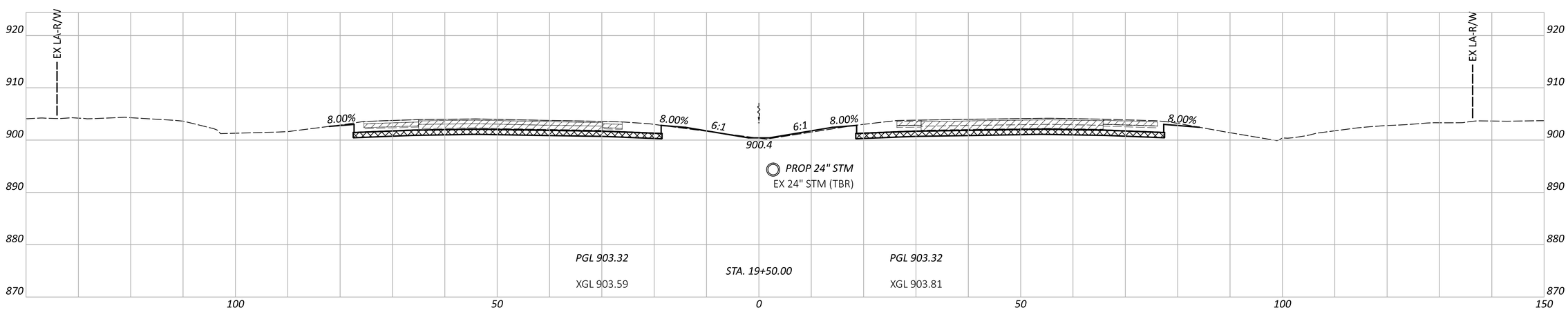

CROSS SECTIONS - IR 70
STA 19+50.00 TO STA 20+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.232 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 19+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:18:51 PM USER: AMerrill
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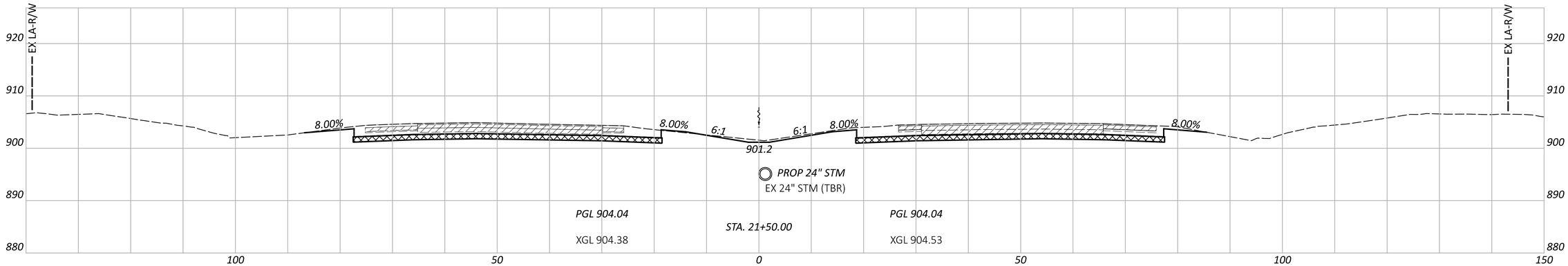

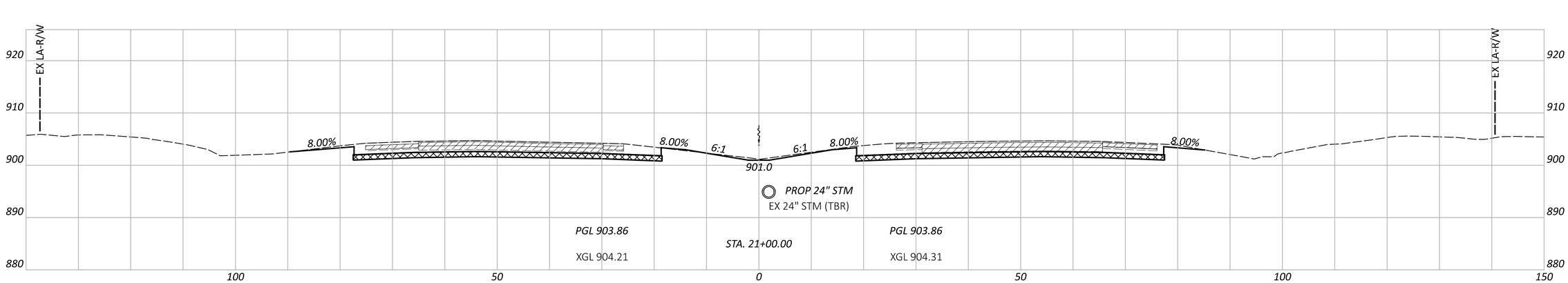

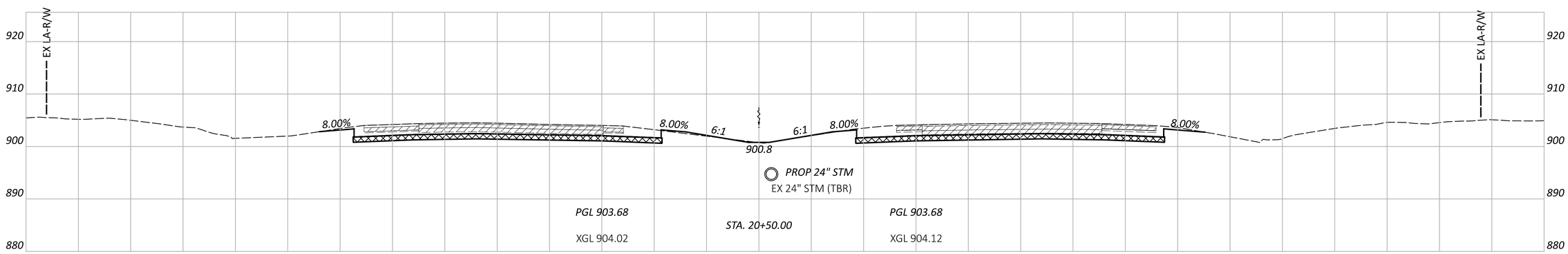

FRA-70-00.00

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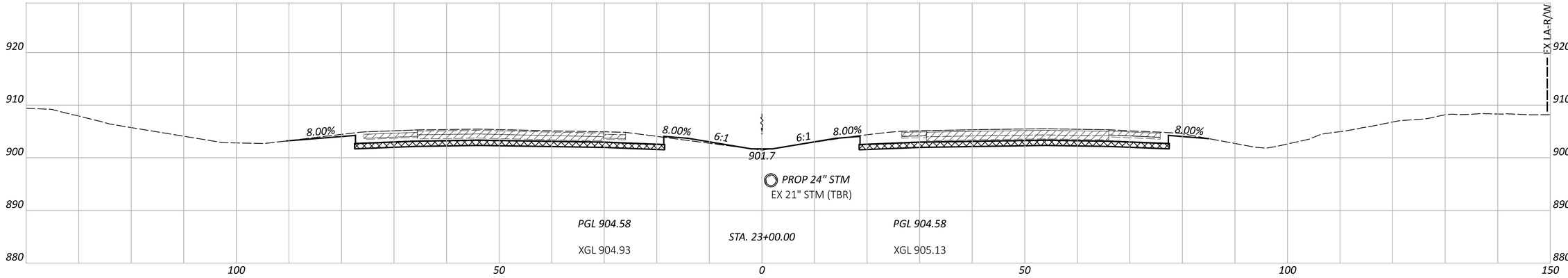
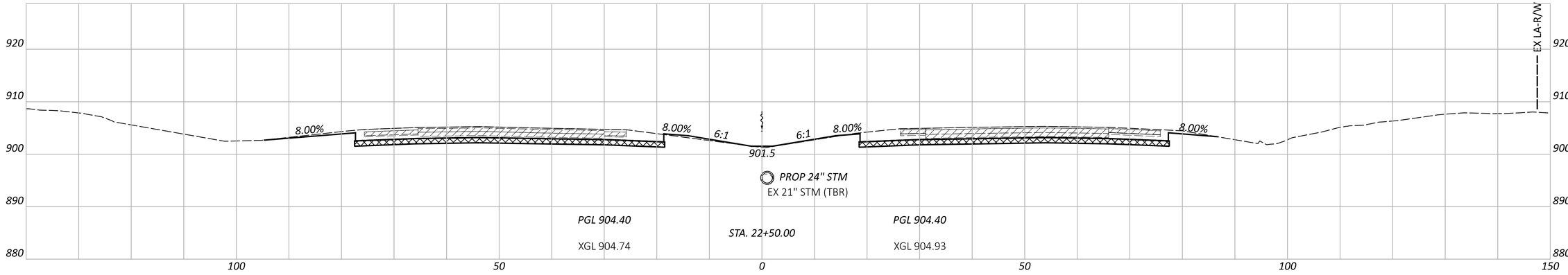
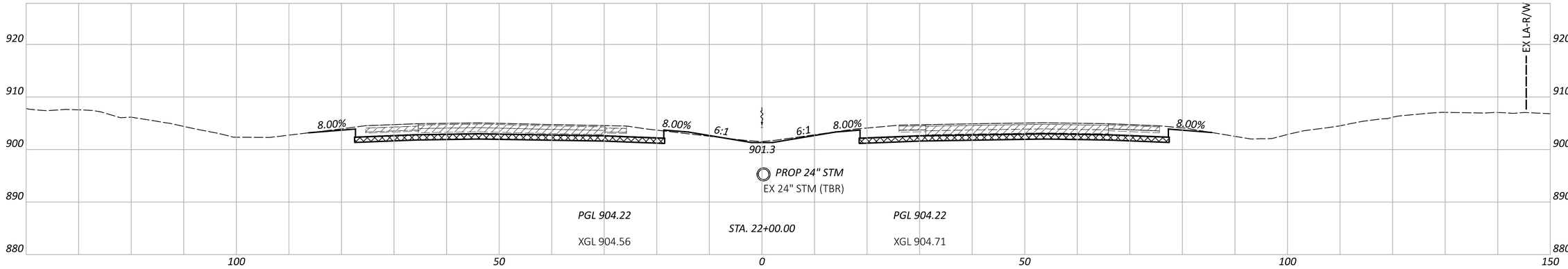
CROSS SECTIONS - IR 70
STA 20+50.00 TO STA 21+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.233
TOTAL	577







CROSS SECTIONS - IR 70
STA 22+00.00 TO STA 23+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.234 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 22+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:19:04 PM USER: AMerrill
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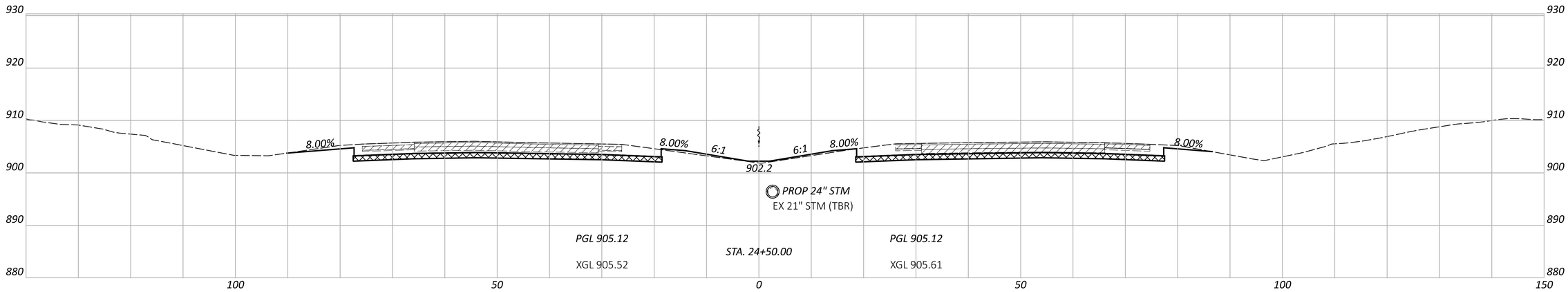

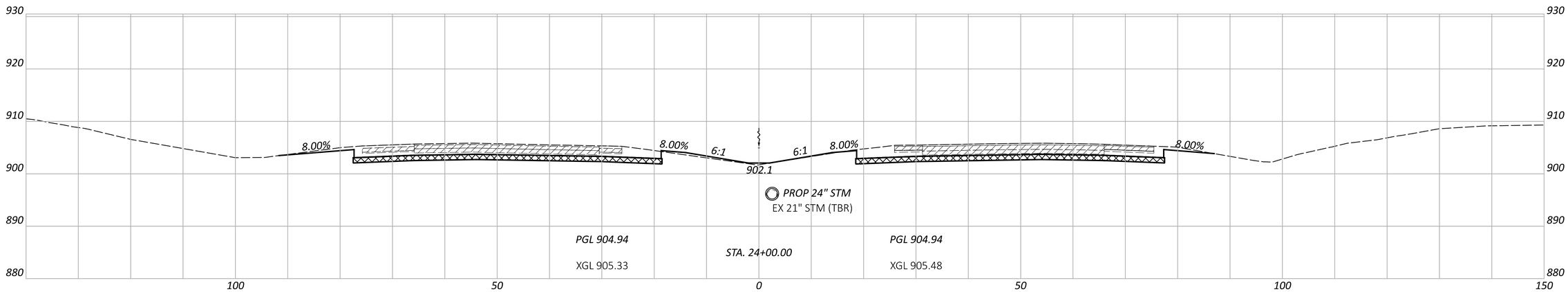

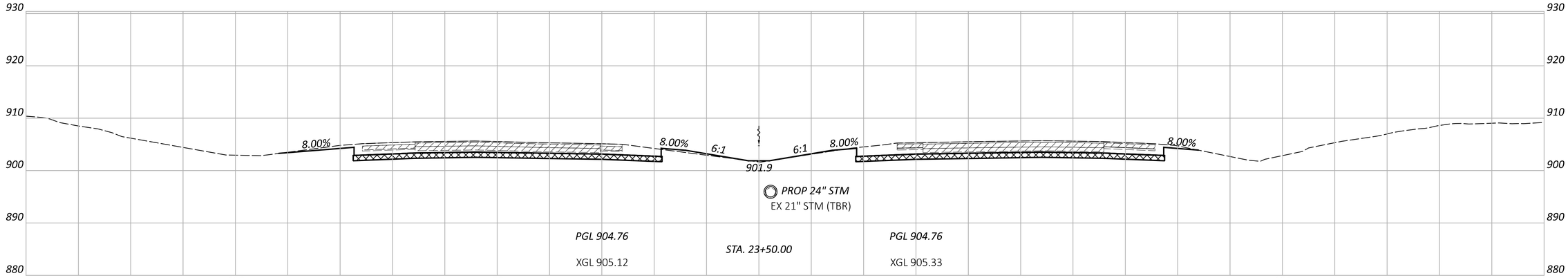

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CROSS SECTIONS - IR 70
STA 23+50.00 TO STA 24+50.00

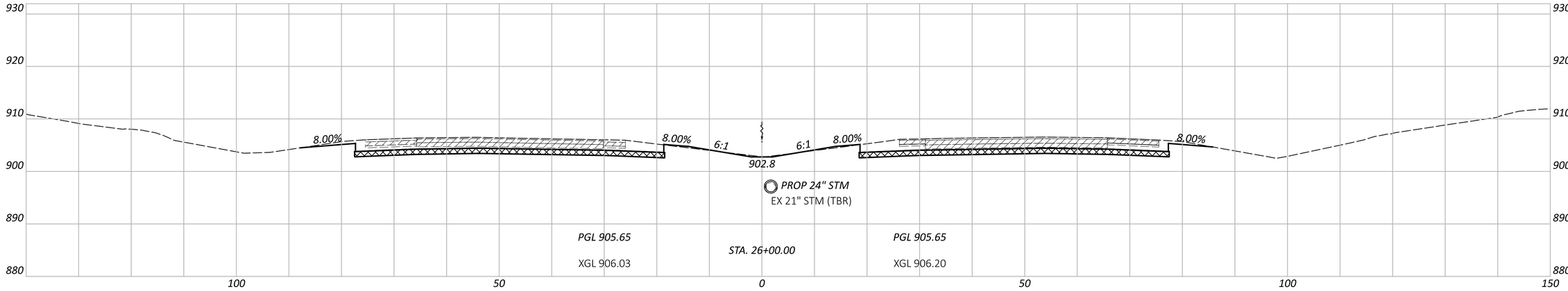
DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

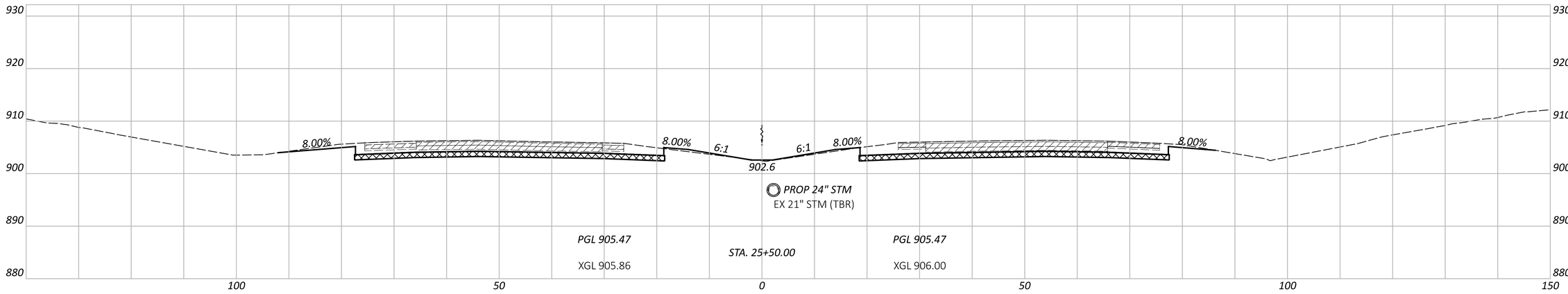
DESIGNER
ARM

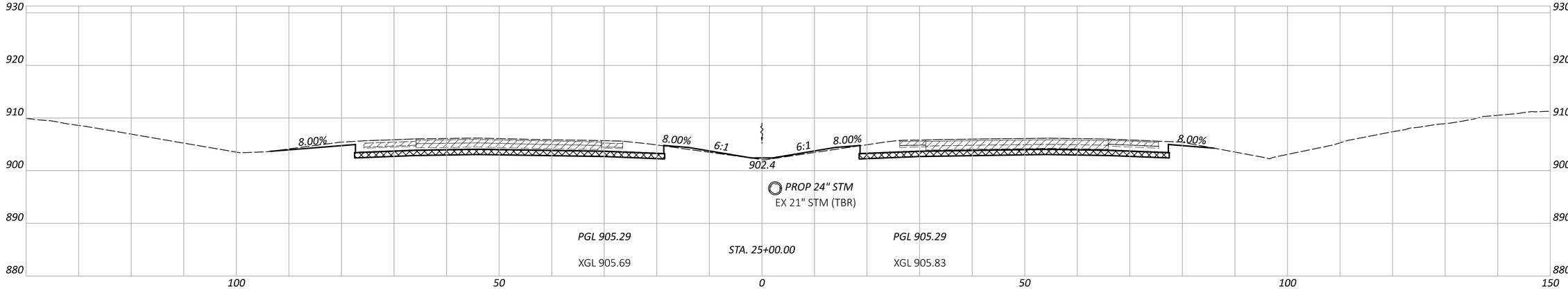
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.235 | TOTAL 577







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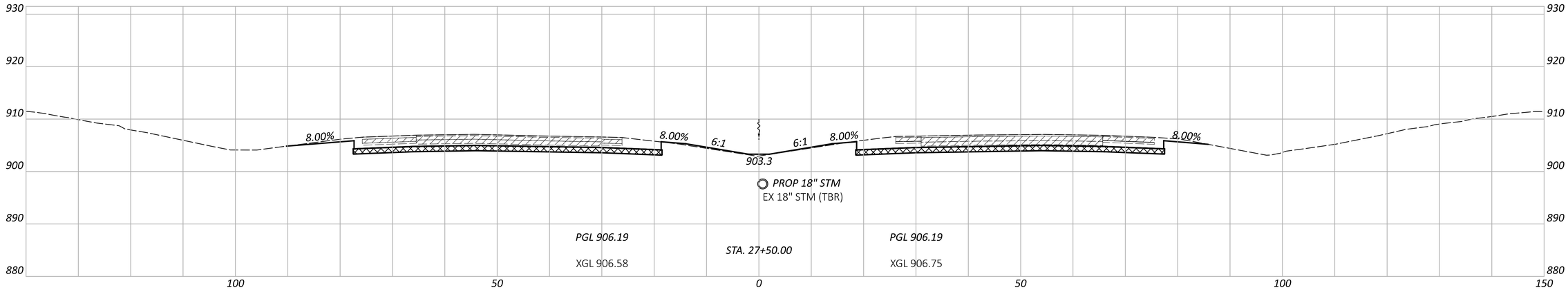
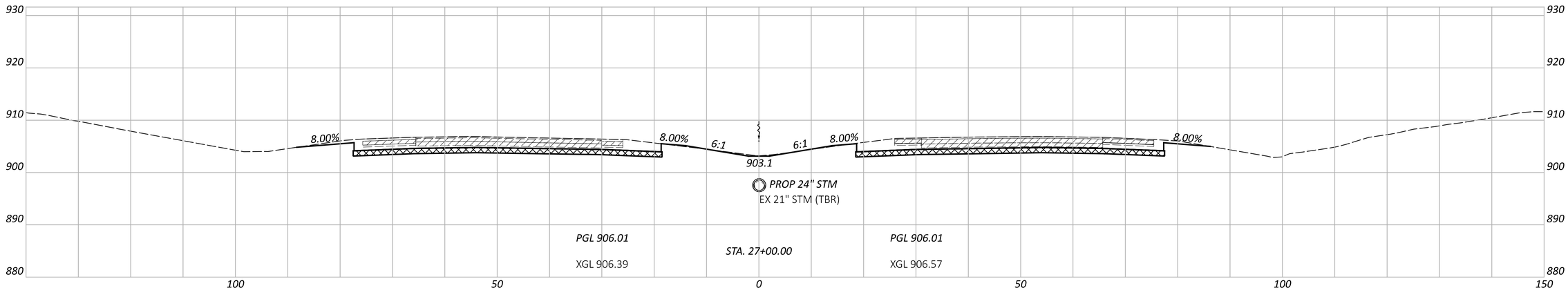
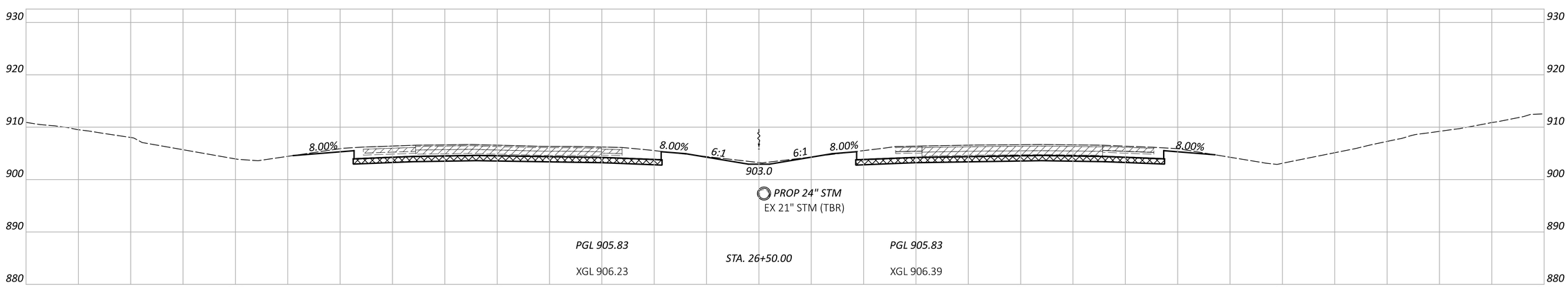
CROSS SECTIONS - IR 70
STA 25+00.00 TO STA 26+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.236
TOTAL	577







CROSS SECTIONS - IR 70
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FRA-70-00.00

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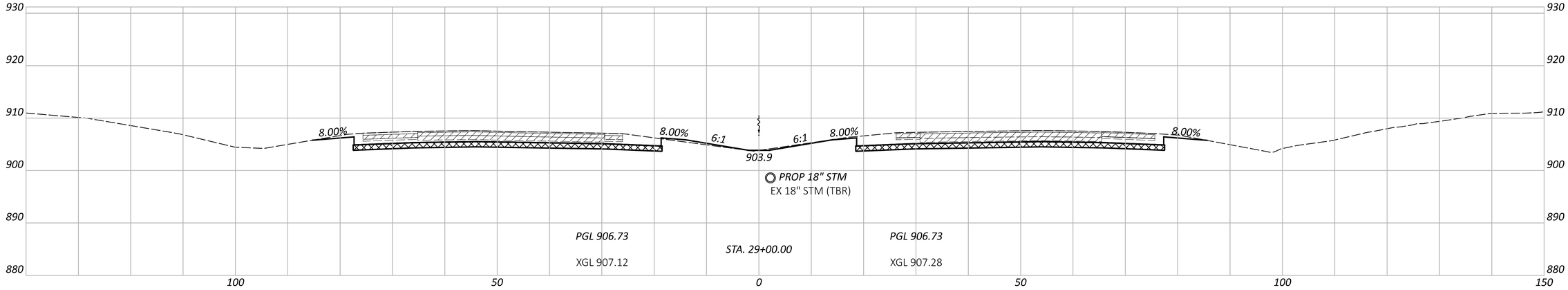
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

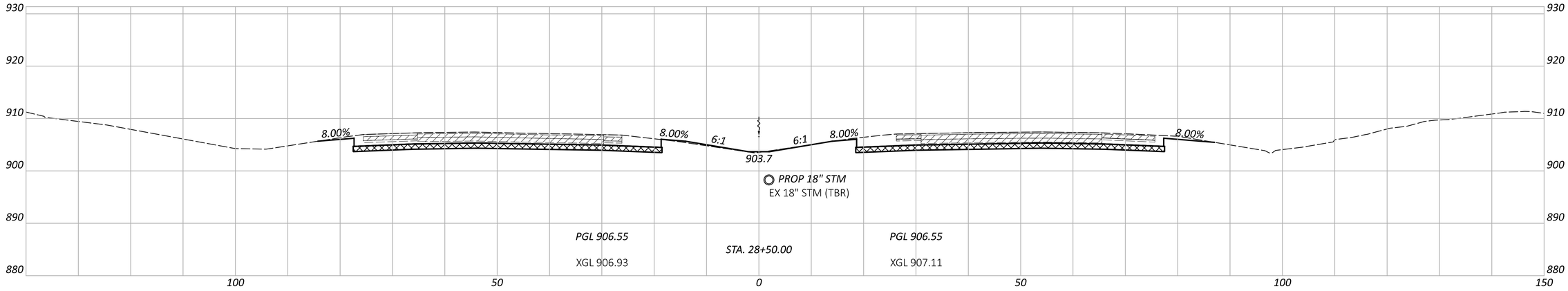
DESIGNER
ARM

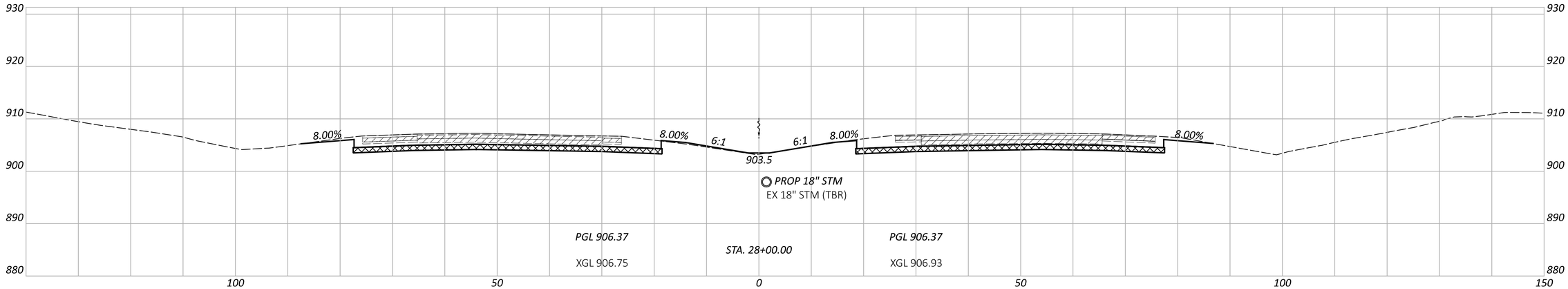
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.237 TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 28+00.00 TO STA 29+00.00

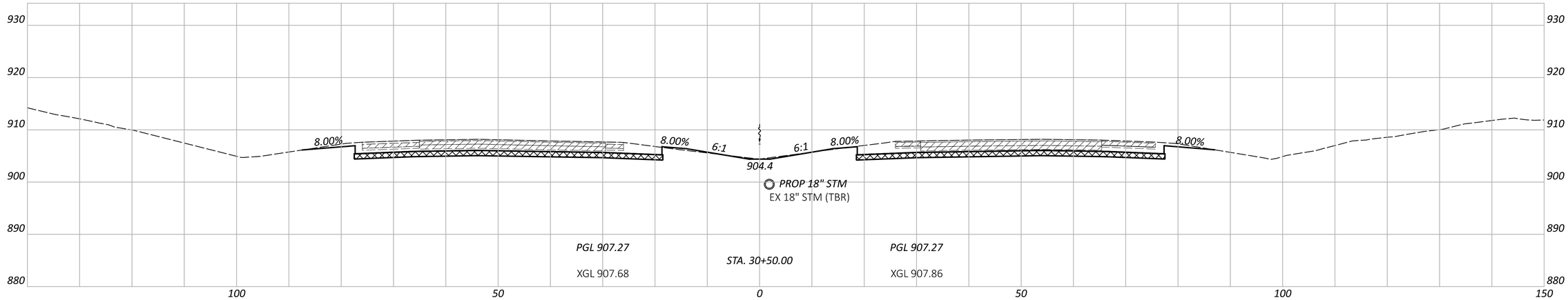
DESIGN AGENCY
STRUCTUREPOINT LLC

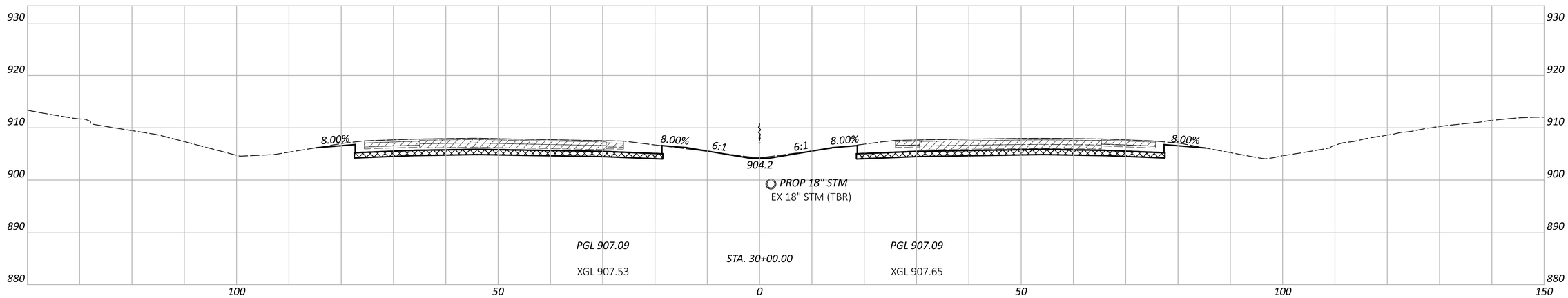
DESIGNER
ARM

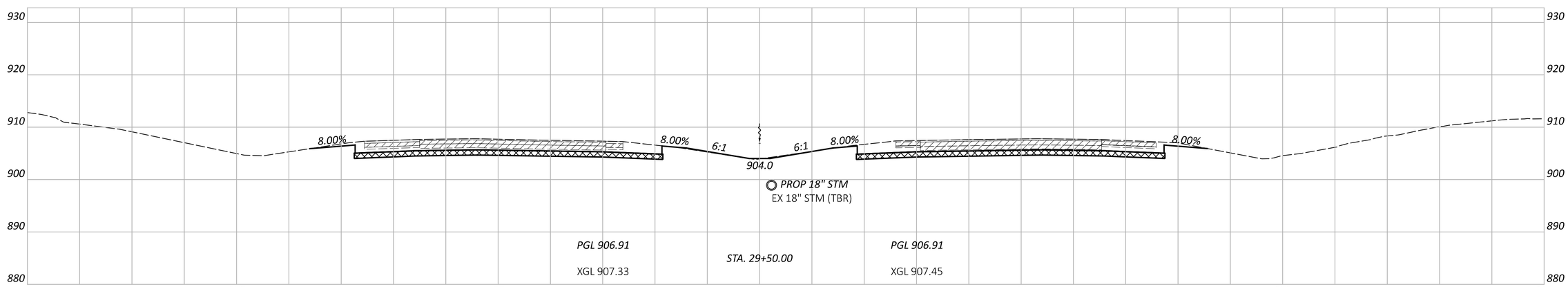
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.238 | TOTAL 577







CROSS SECTIONS - IR 70
STA 29+50.00 TO STA 30+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.239 | TOTAL 577

FRA-70-00.00

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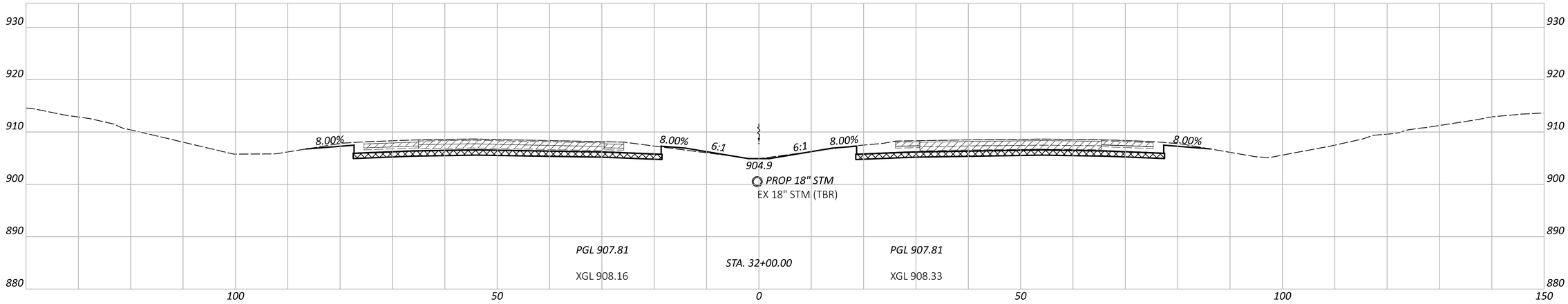

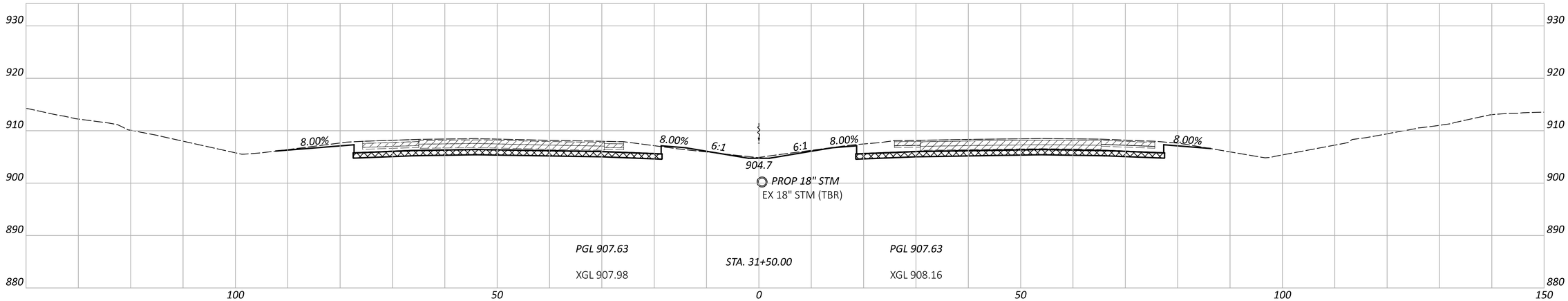

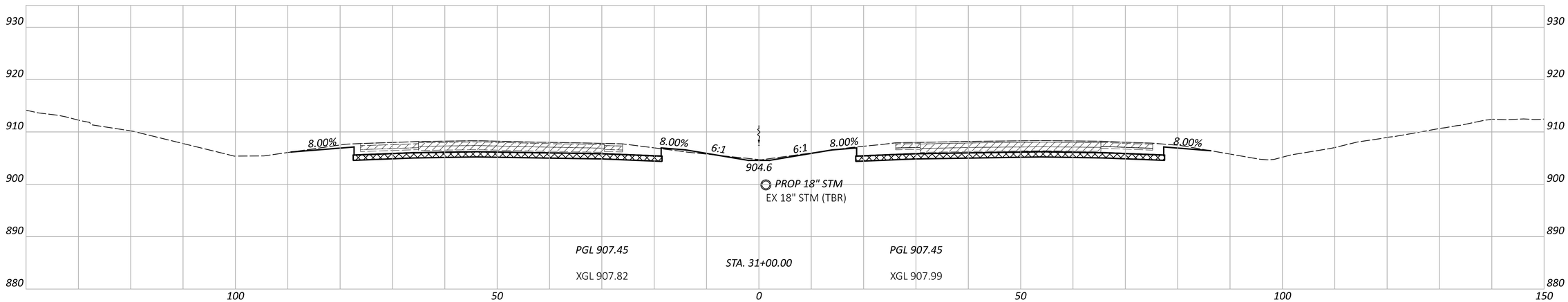

CROSS SECTIONS - IR 70
STA 31+00.00 TO STA 32+00.00

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.240
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - 31+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:19:39 PM USER: AMerrill
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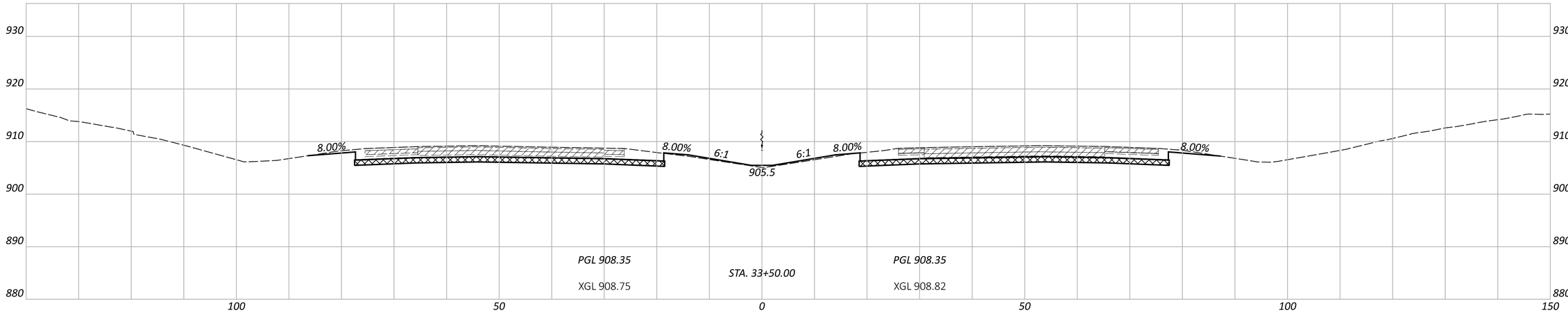

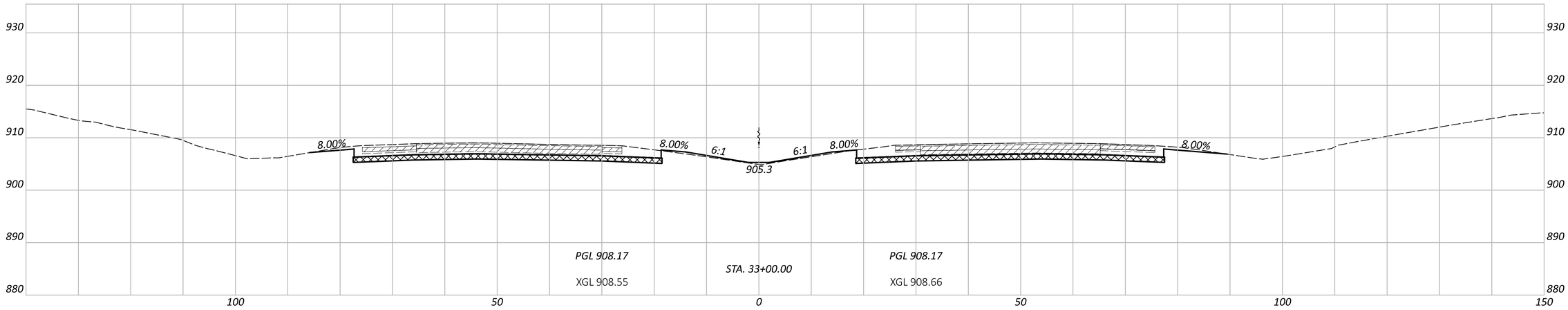

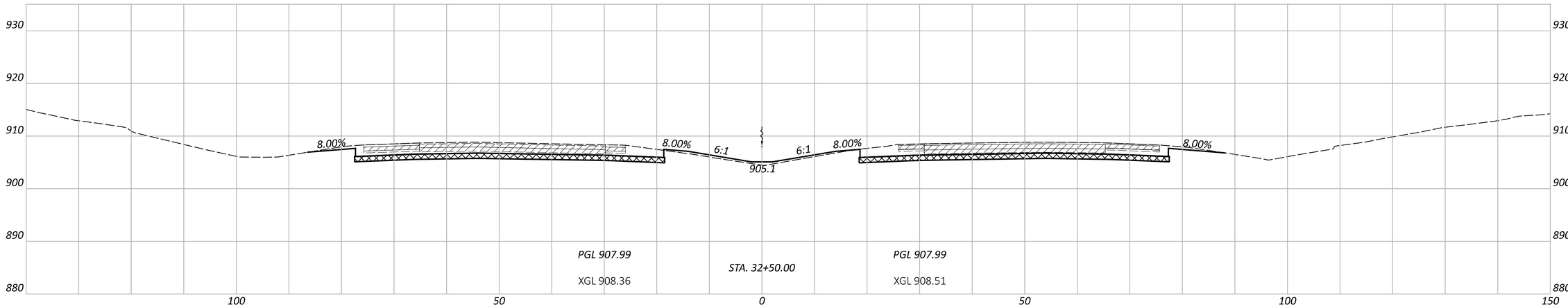

CROSS SECTIONS - IR 70
STA 32+50.00 TO STA 33+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.241 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 -32+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:19:45 PM USER: AMerrill
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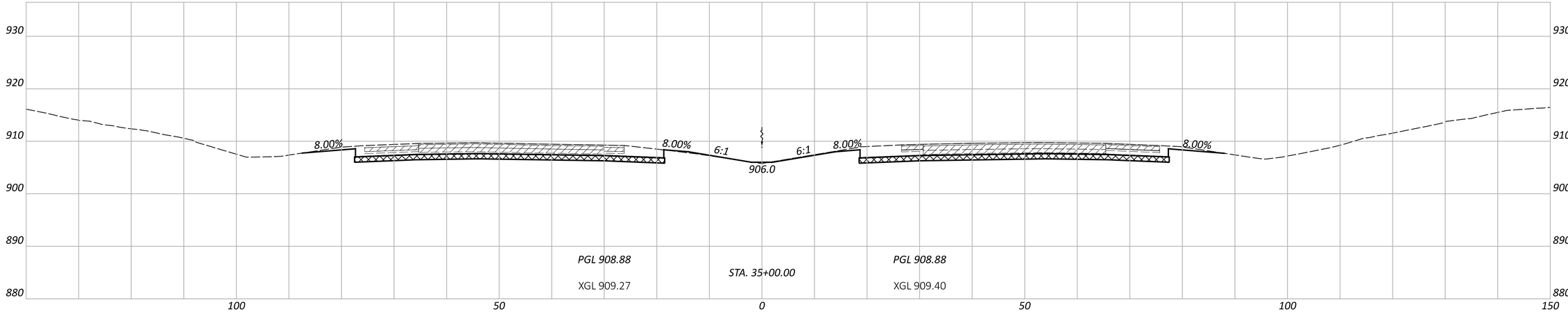

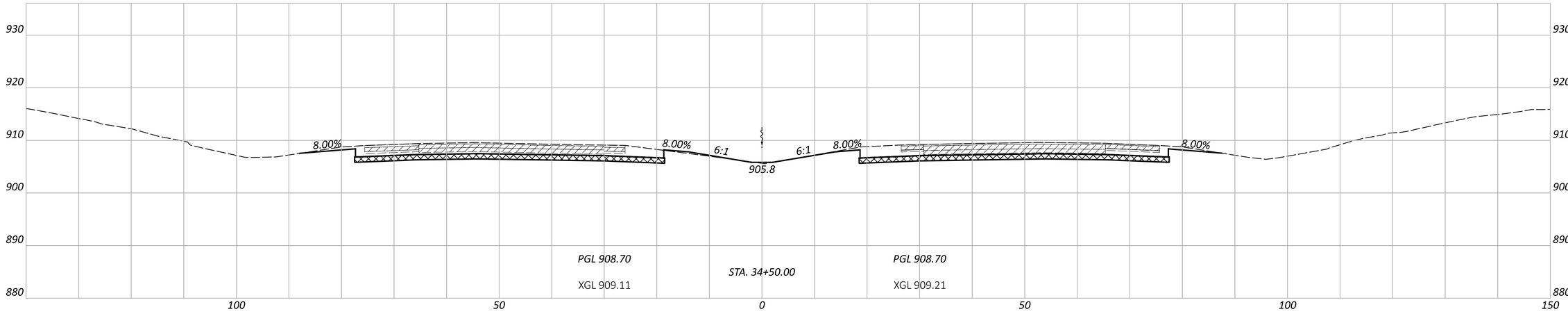

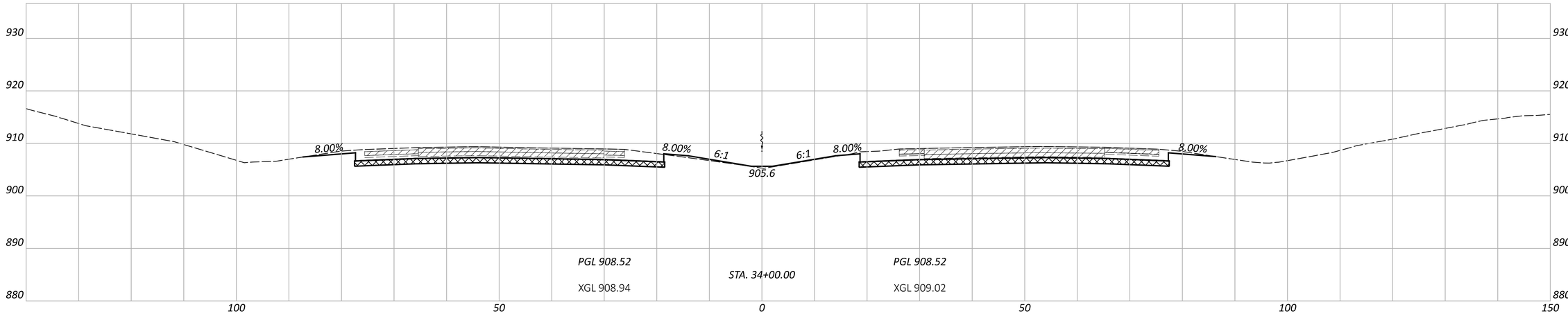

CROSS SECTIONS - IR 70
STA 34+00.00 TO STA 35+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.242 | TOTAL 577

FRA-70-00.00

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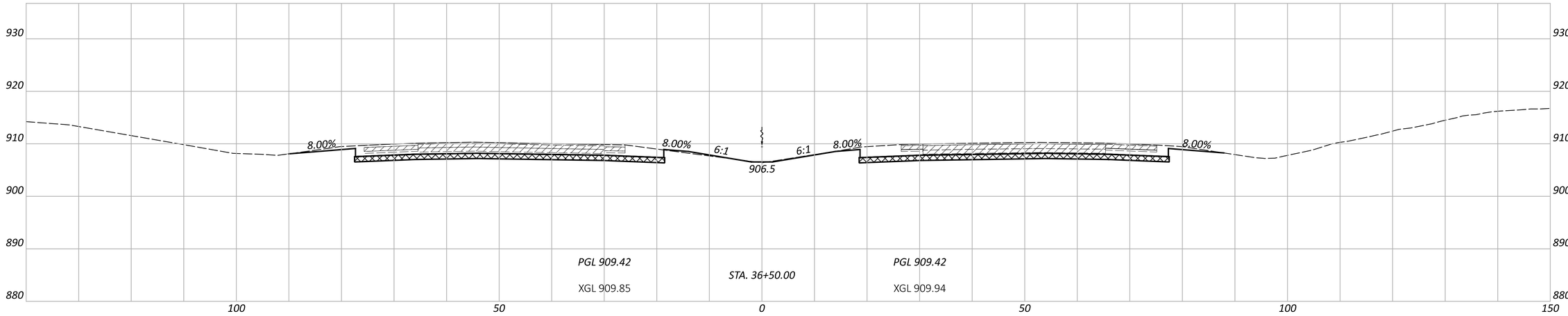

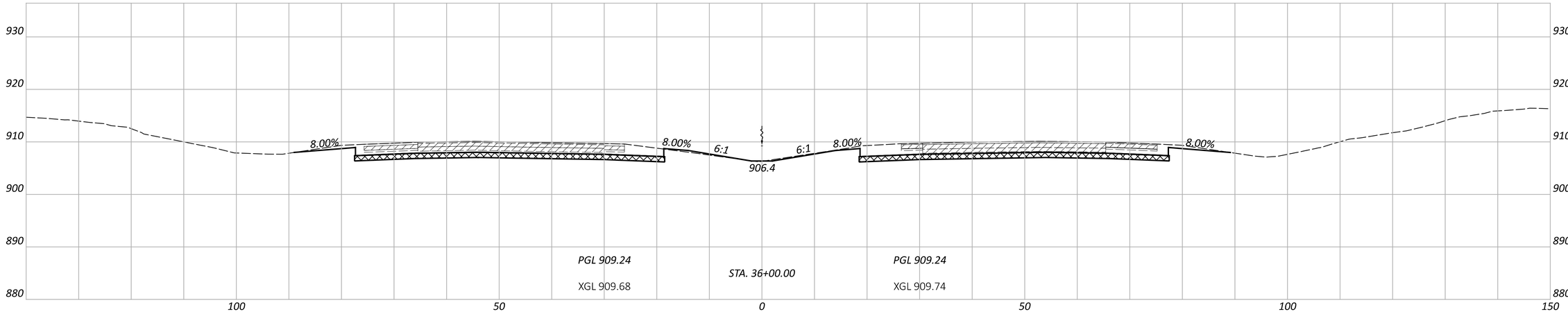

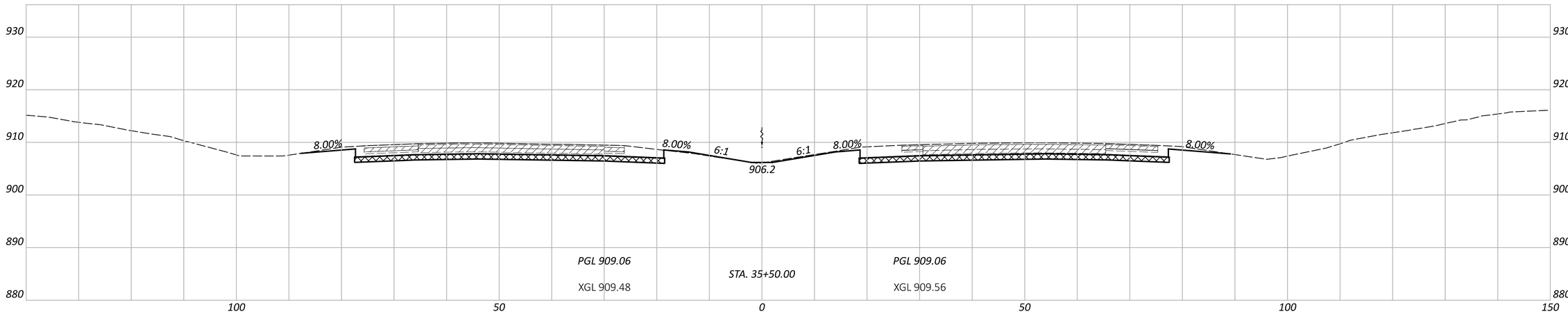

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 35+50.00 TO STA 36+50.00

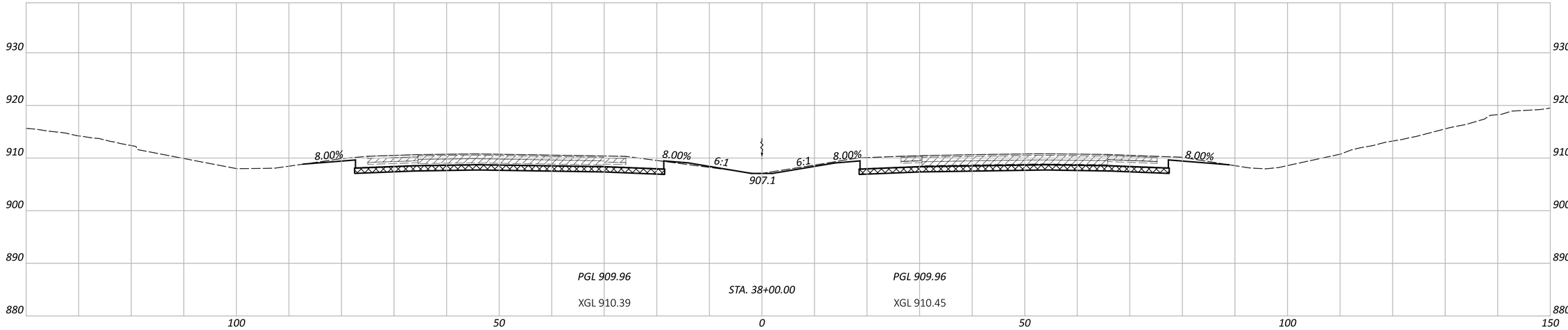
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

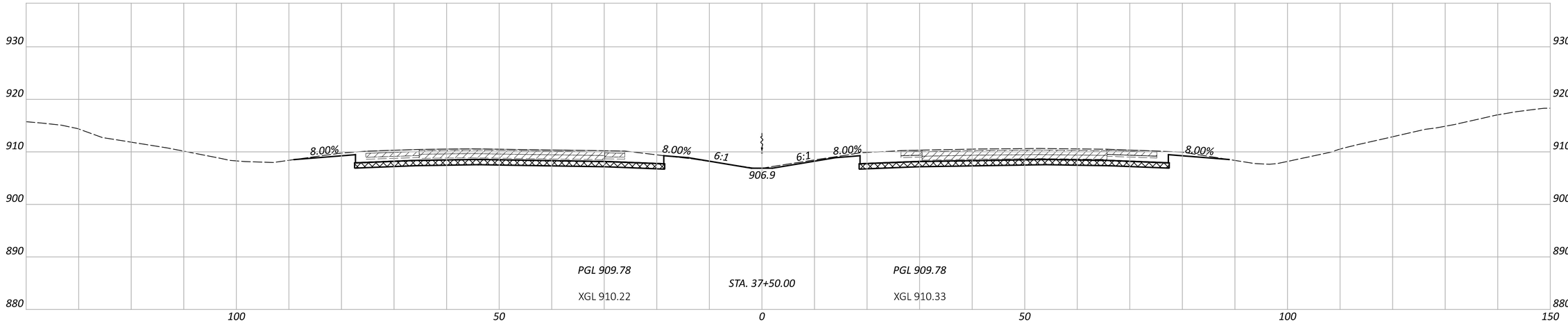
DESIGNER
ARM

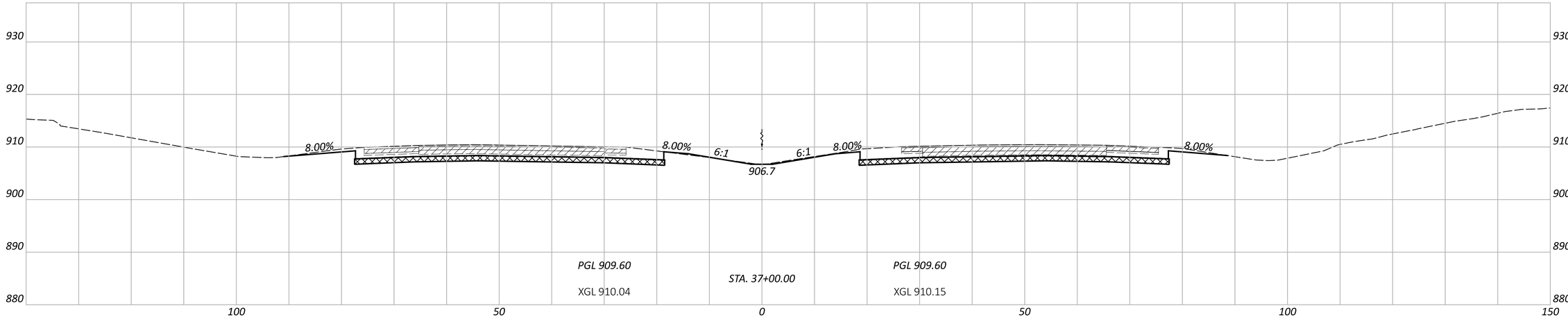
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.243 | TOTAL 577







CROSS SECTIONS - IR 70
STA 37+00.00 TO STA 38+00.00

FRA-70-00.00

MODEL: CLP_I070 - 37+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:02 PM USER: AMerrill
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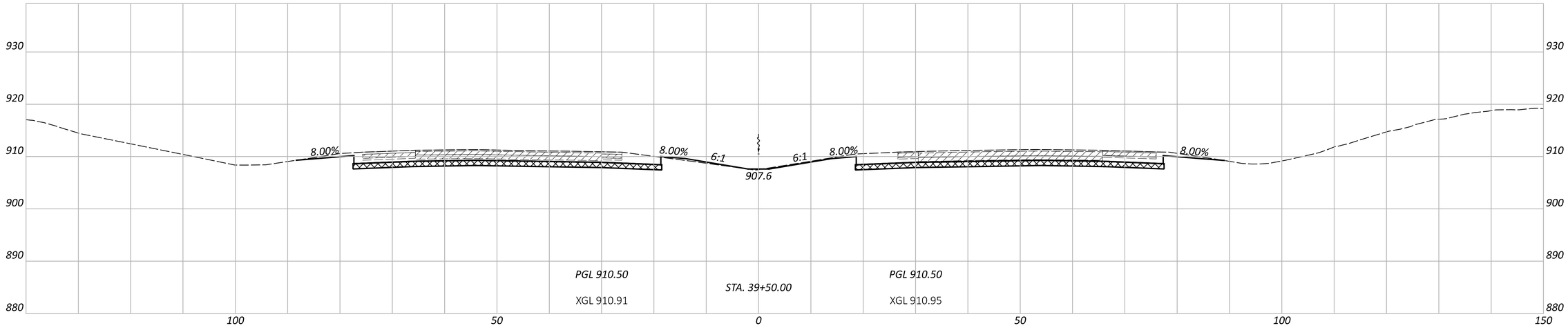
DESIGN AGENCY
AMEREN STRUCTUREPOINT INC.

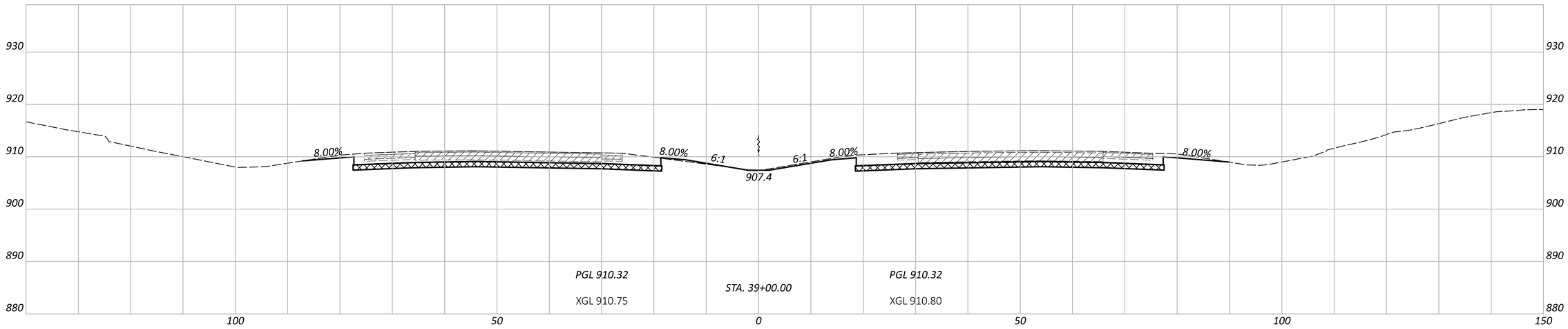
DESIGNER
ARM

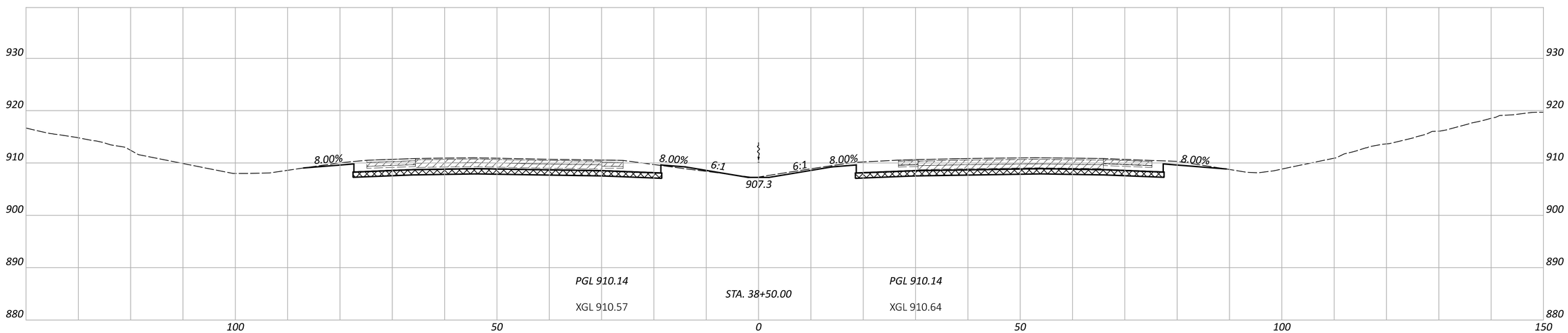
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.244 | TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 38+50.00 TO STA 39+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.245 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 40+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:13 PM USER: AMerrill
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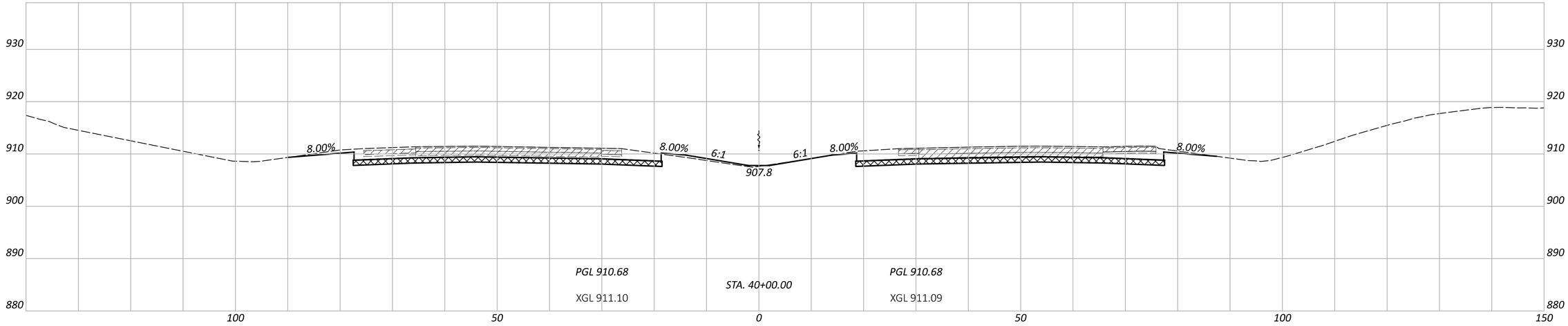
CROSS SECTIONS - IR 70
STA 40+00.00



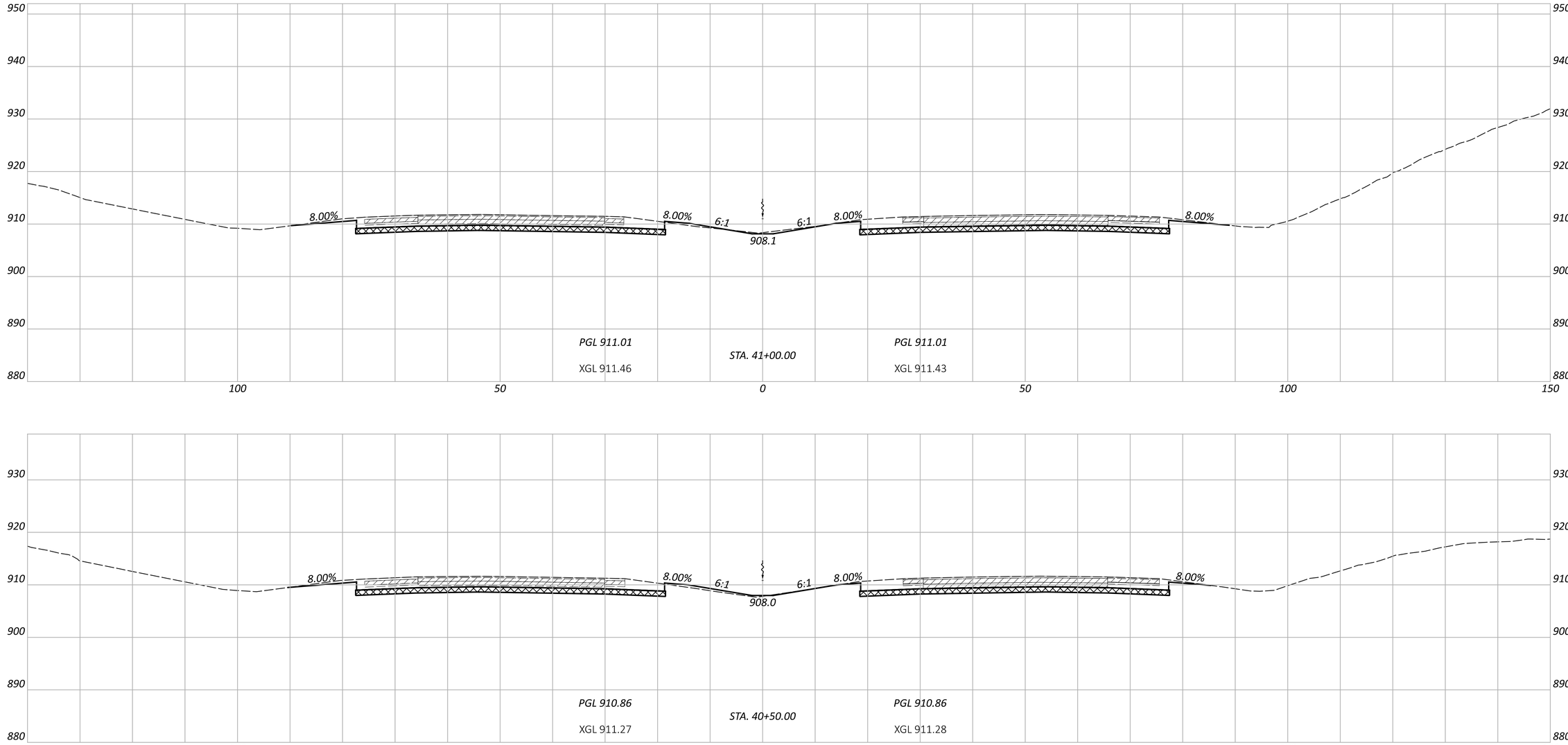
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.246 | TOTAL 577



FRA-70-00.00

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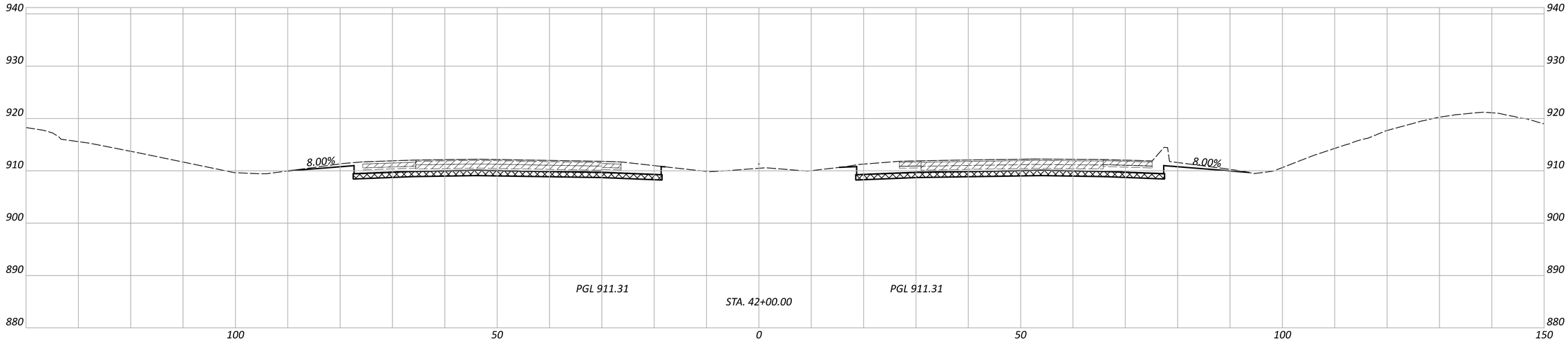
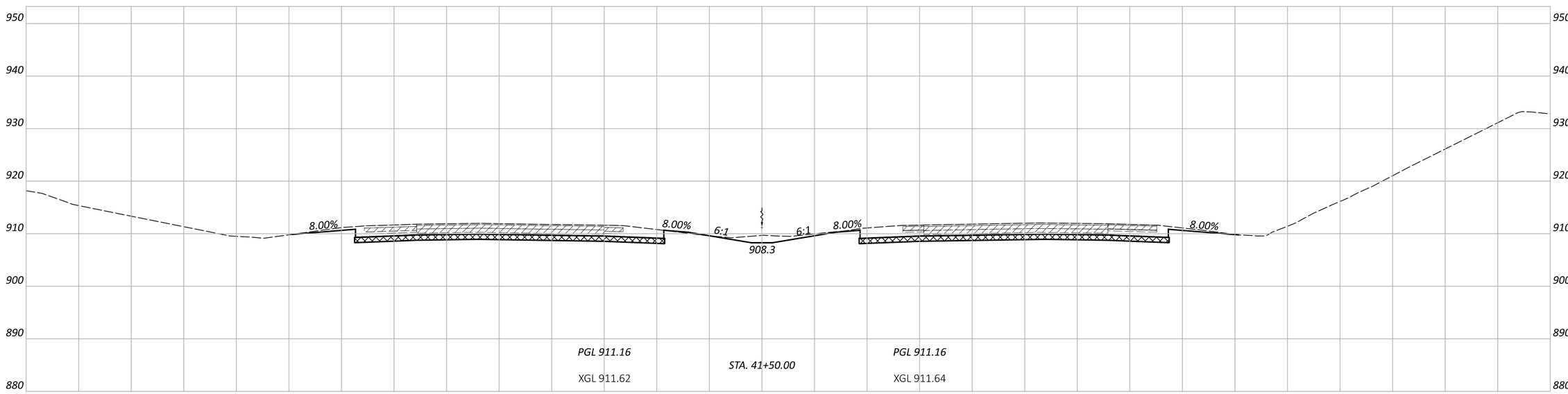
CROSS SECTIONS - IR 70
STA 40+50.00 TO STA 41+00.00

DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.247
TOTAL	577





CROSS SECTIONS - IR 70
STA 41+50.00 TO STA 42+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.248 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 41+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:23 PM USER: AMerrill
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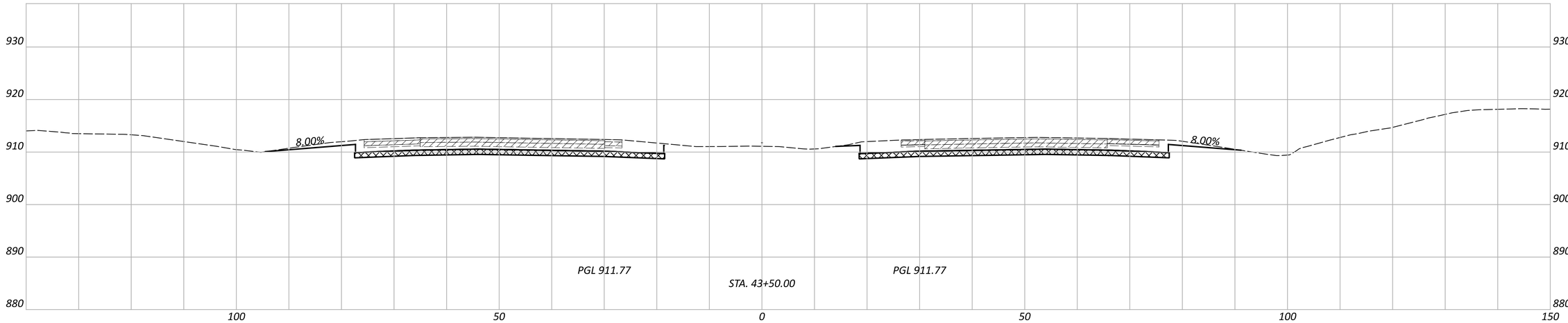

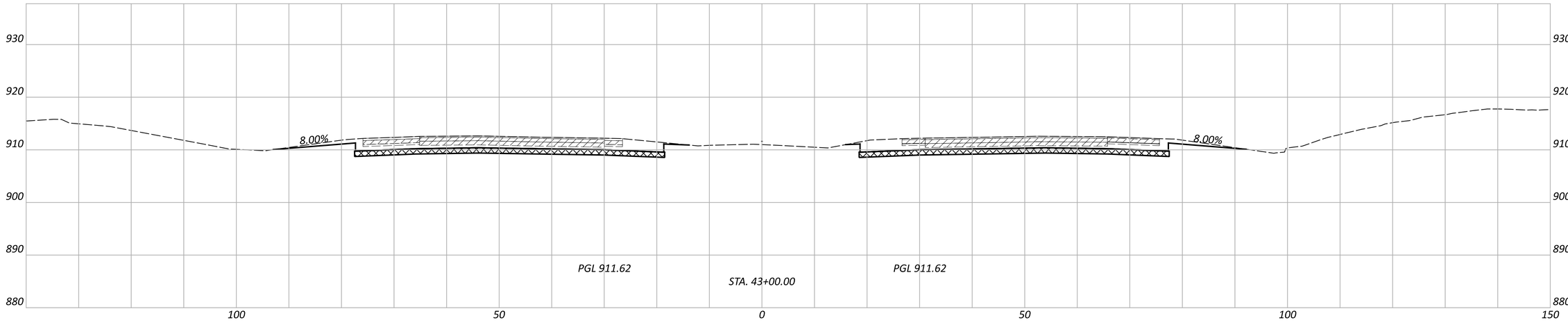

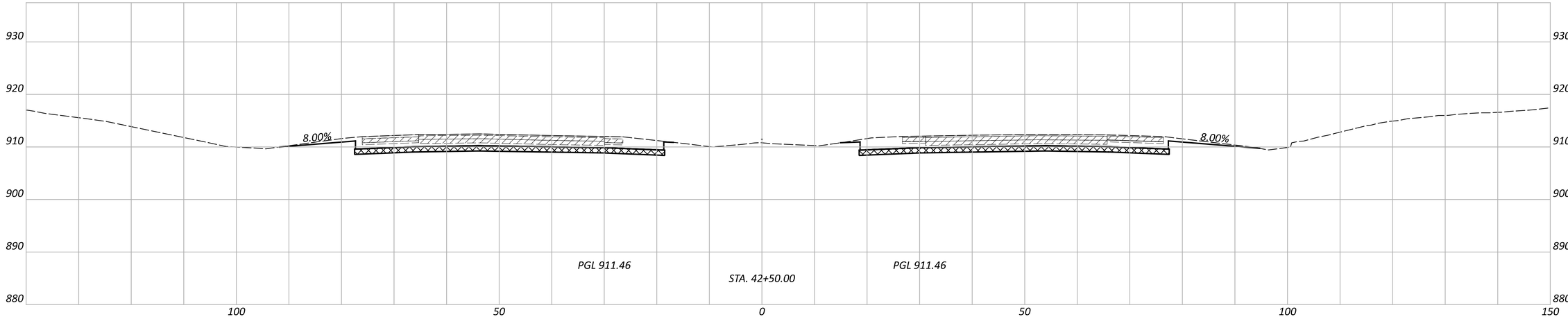

CROSS SECTIONS - IR 70
STA 42+50.00 TO STA 43+50.00

FRA-70-00.00

MODEL: CLP_I070 - 42+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:27 PM USER: AMerrill
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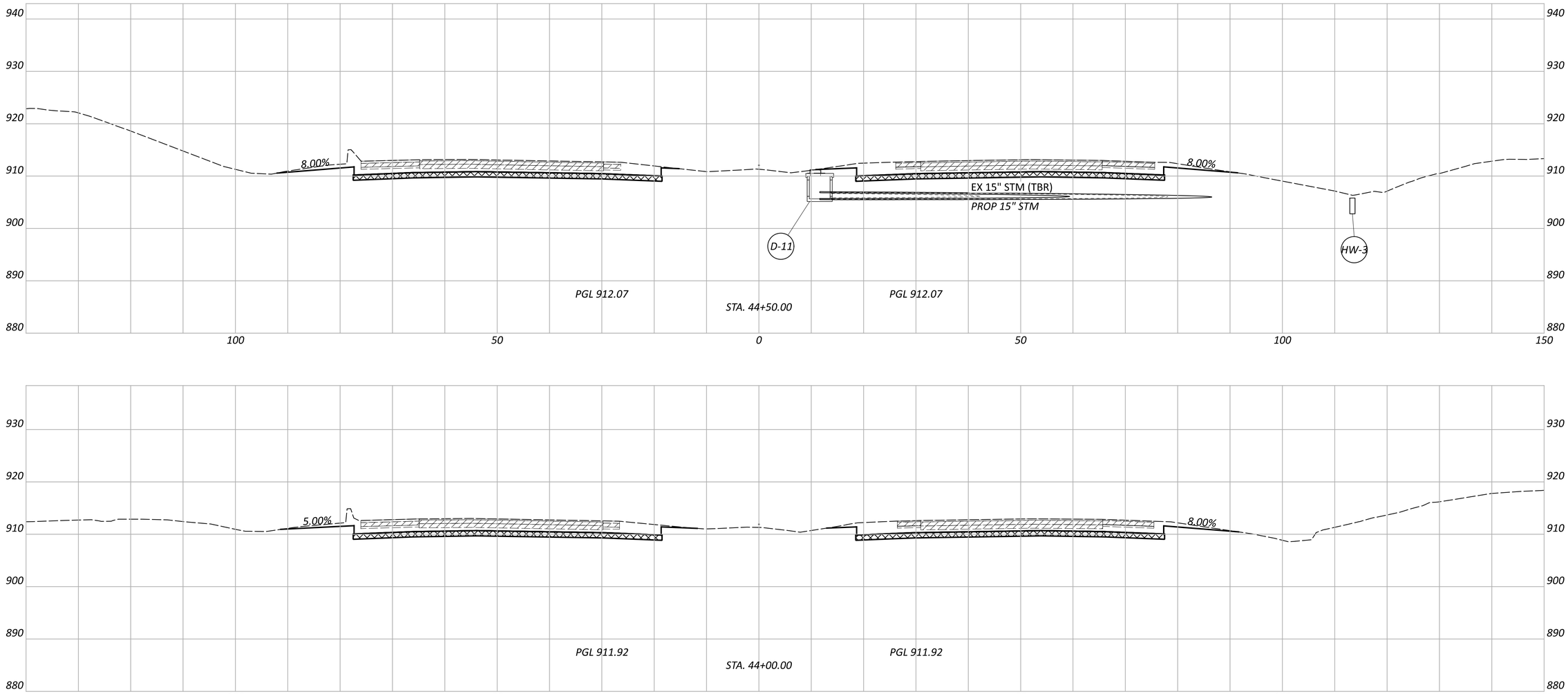
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.249 TOTAL 577



CROSS SECTIONS - IR 70
STA 44+00.00 TO STA 44+50.00

FRA-70-00.00

MODEL: CLP_I070 - 44+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:33 PM USER: AMerrill
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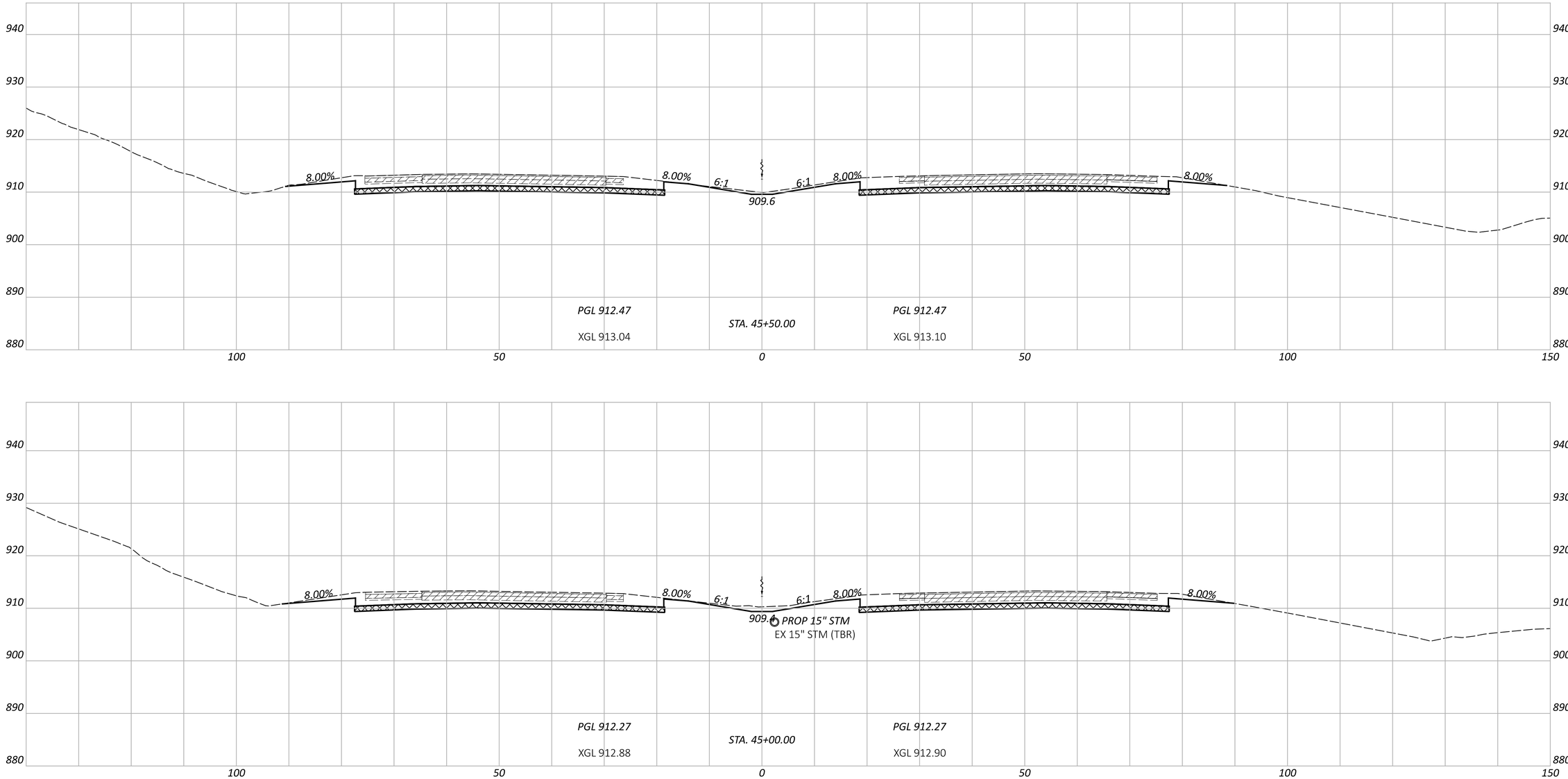
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.250 | TOTAL 577



CROSS SECTIONS - IR 70
STA 45+00.00 TO STA 45+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.251 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 45+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:37 PM USER: AMerrill
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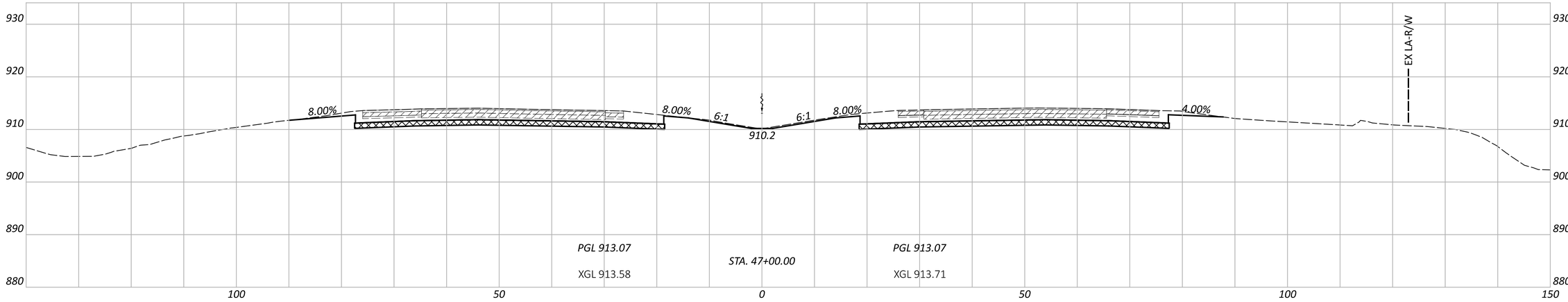

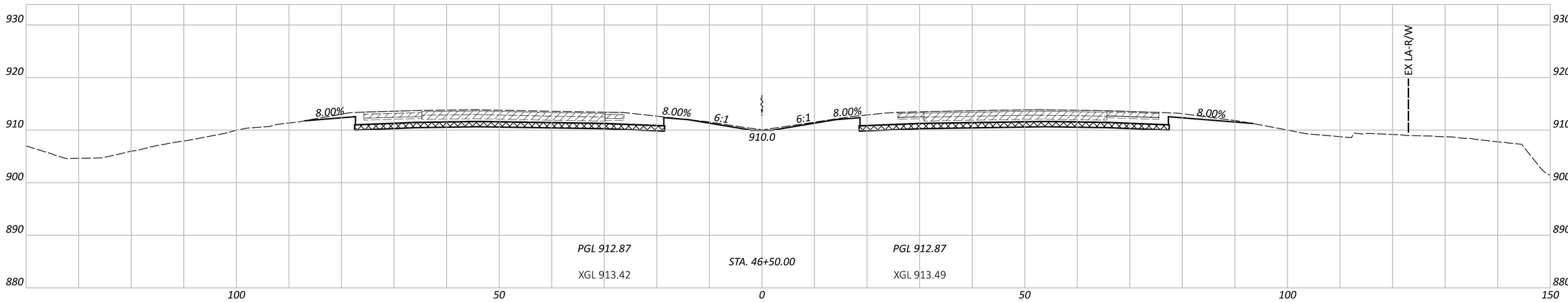

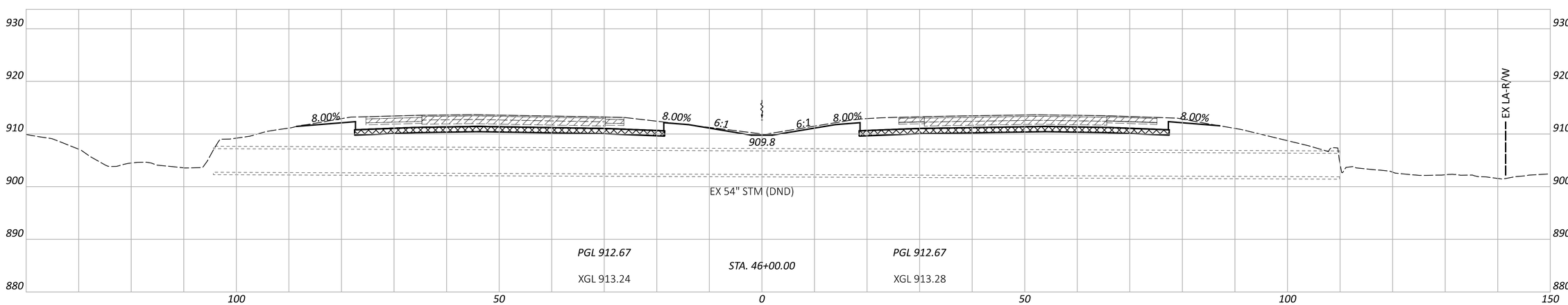

CROSS SECTIONS - IR 70
STA 46+00.00 TO STA 47+00.00

DESIGN AGENCY
WEHRENBERG STRUCTUREPOINT INC.

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.252
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - 46+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:41 PM USER: AMerrill
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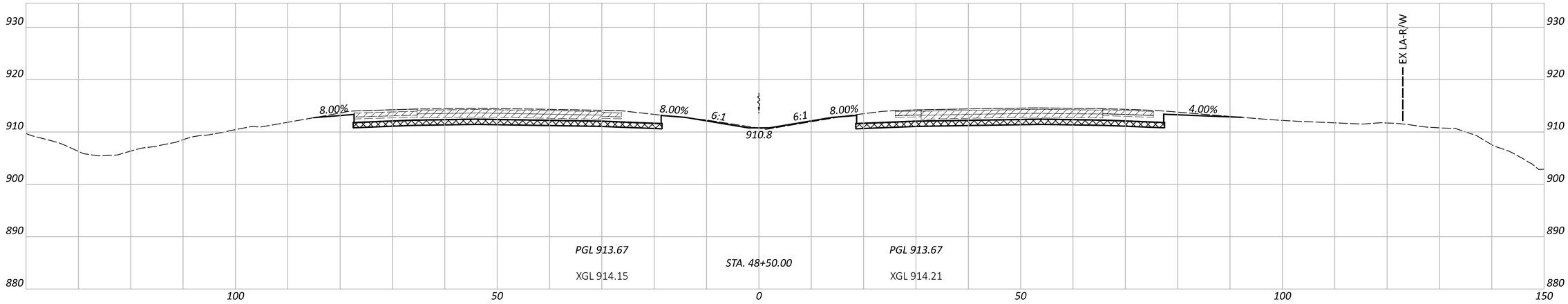

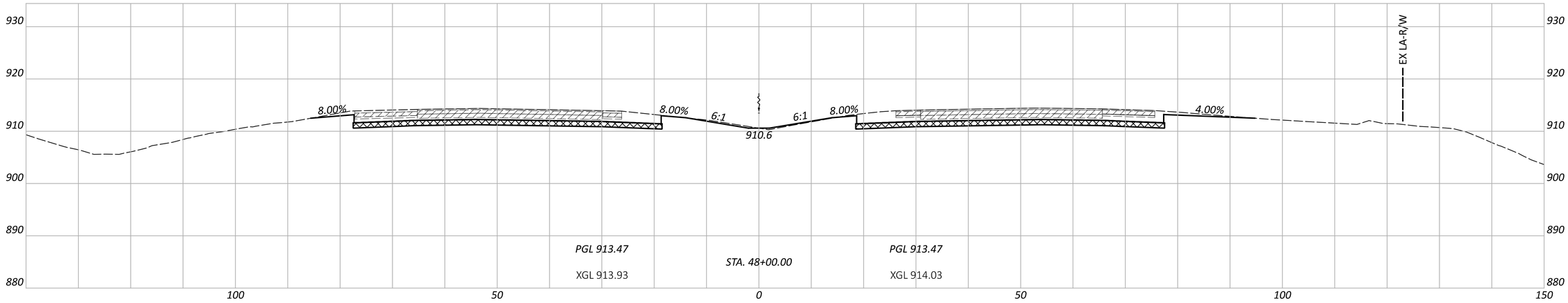

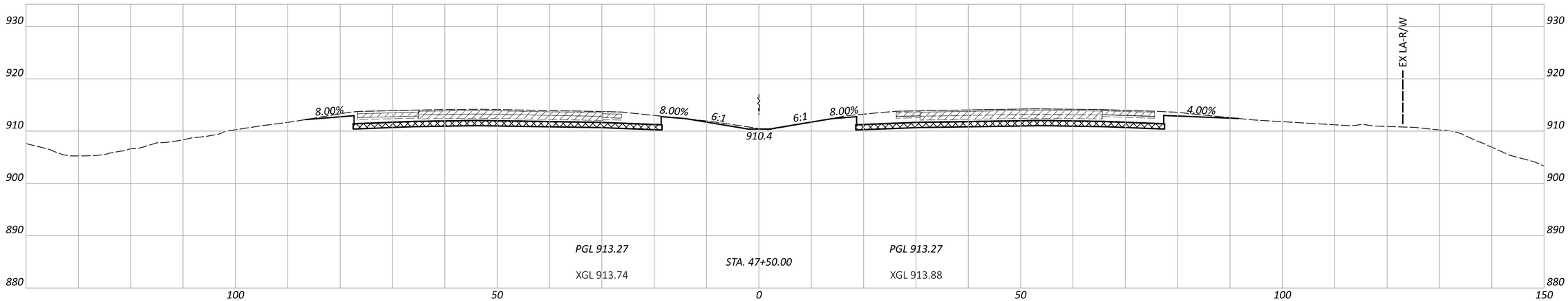

CROSS SECTIONS - IR 70
STA 47+50.00 TO STA 48+50.00

DESIGN AGENCY
MEMPHIS STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.253 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 47+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:47 PM USER: AMerrill
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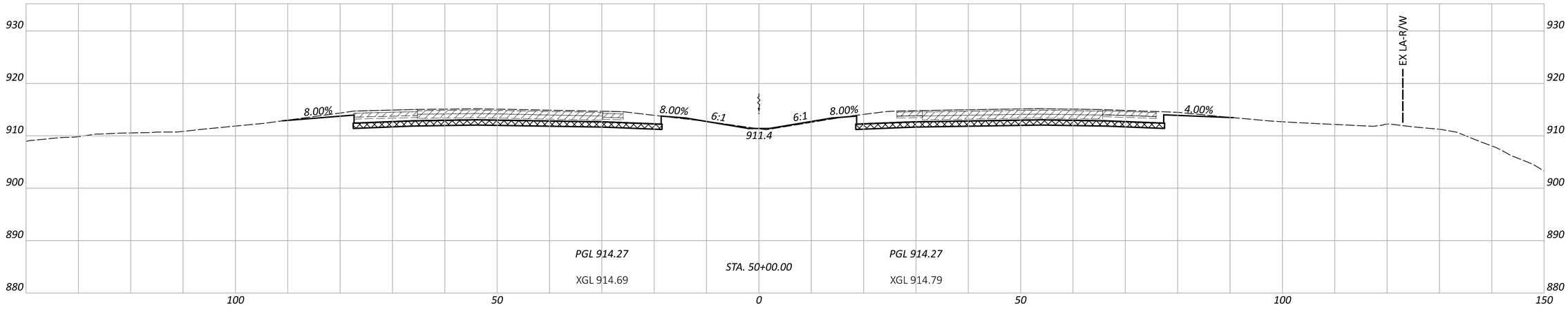

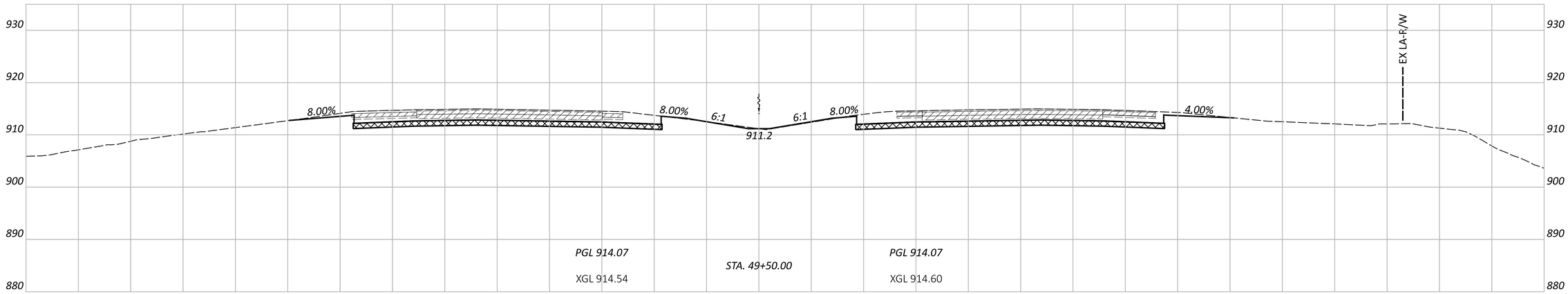

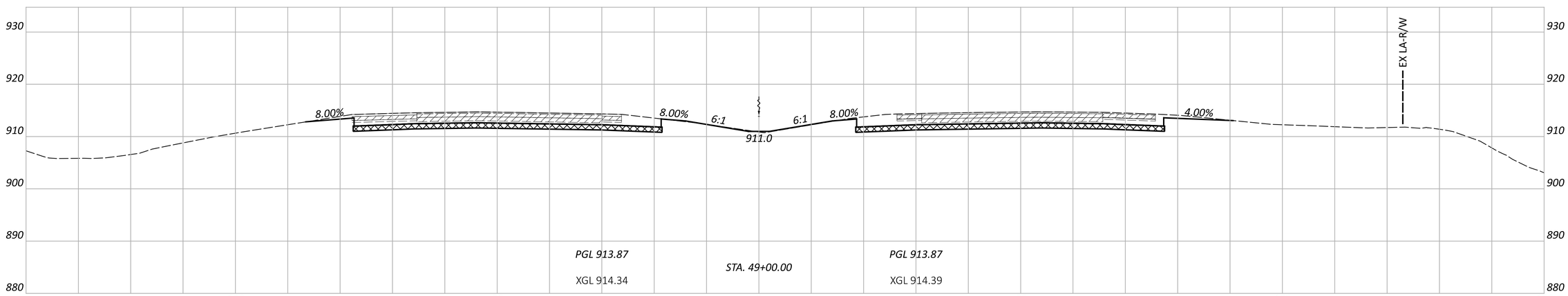

CROSS SECTIONS - IR 70
STA 49+00.00 TO STA 50+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.254 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 49+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:53 PM USER: AMerrill
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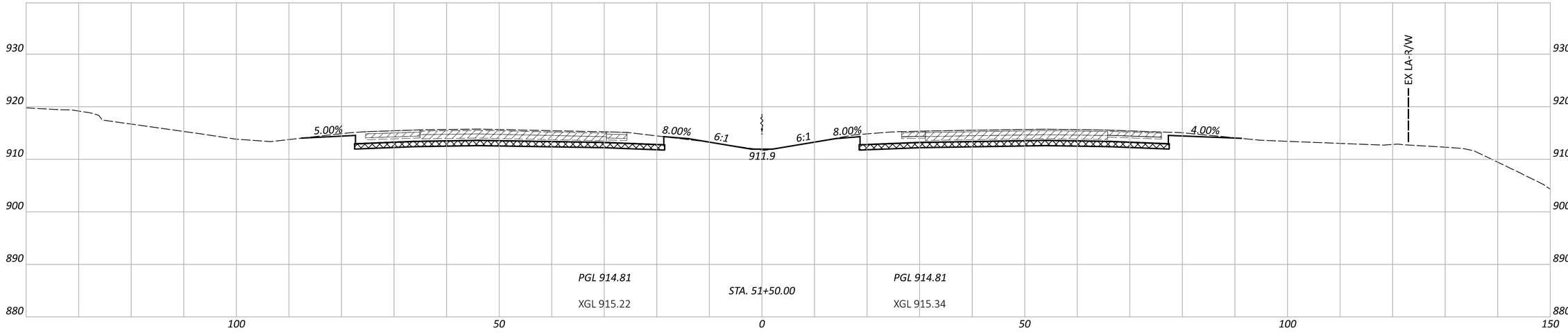

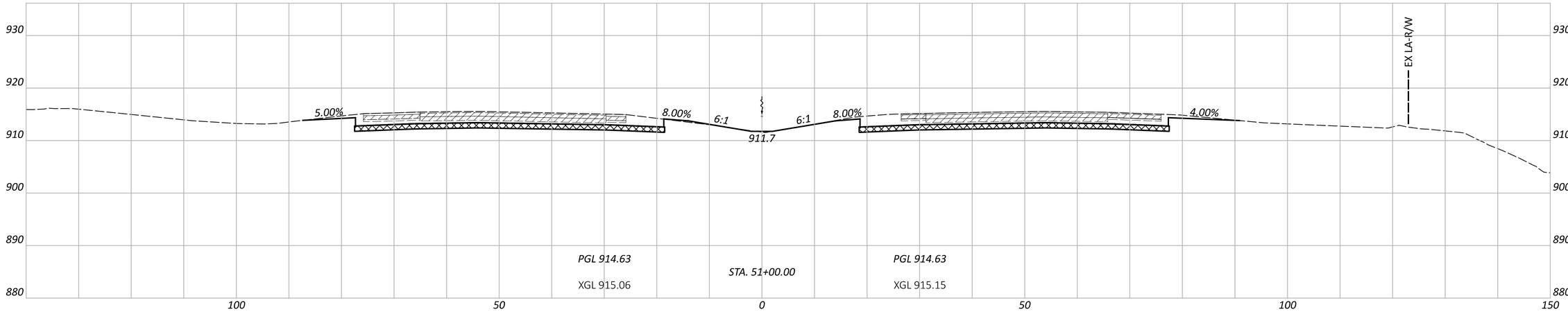

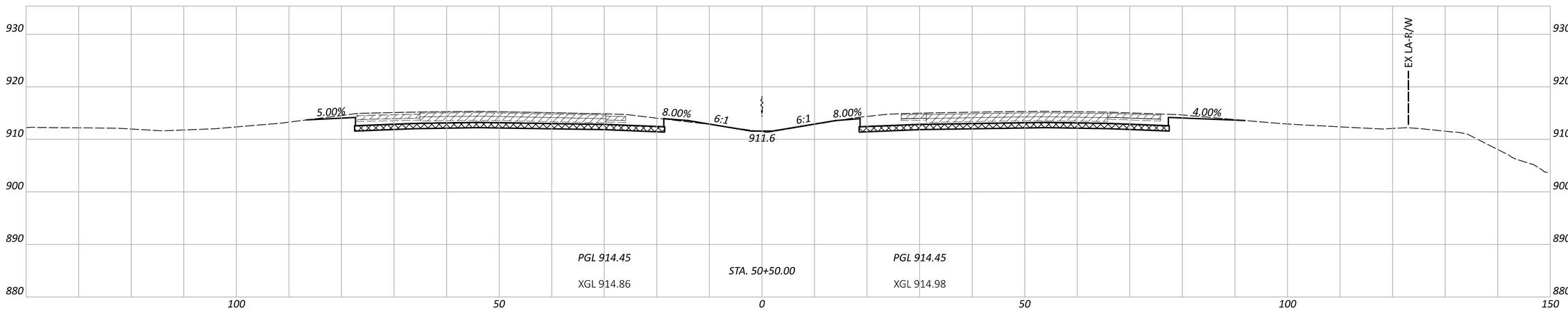

CROSS SECTIONS - IR 70
STA 50+50.00 TO STA 51+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.255 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 50+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:20:59 PM USER: AMerrill
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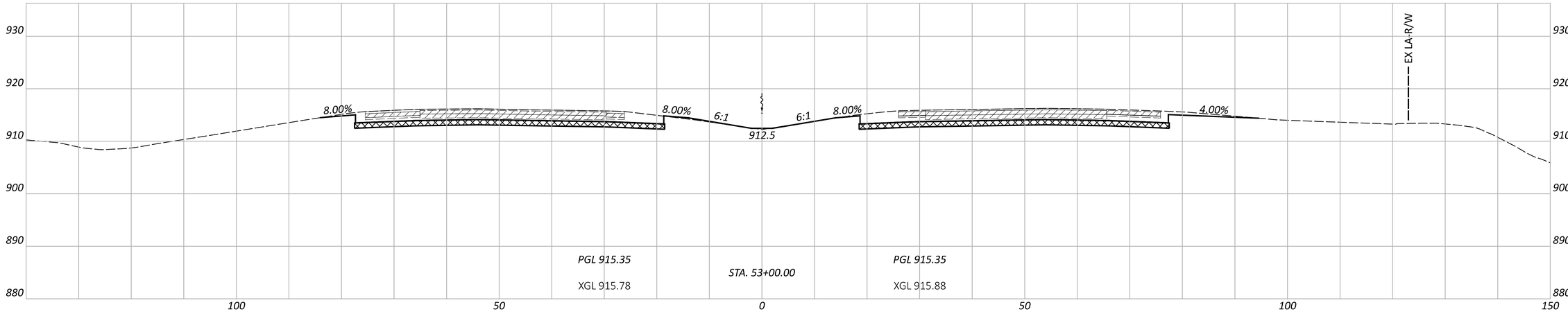

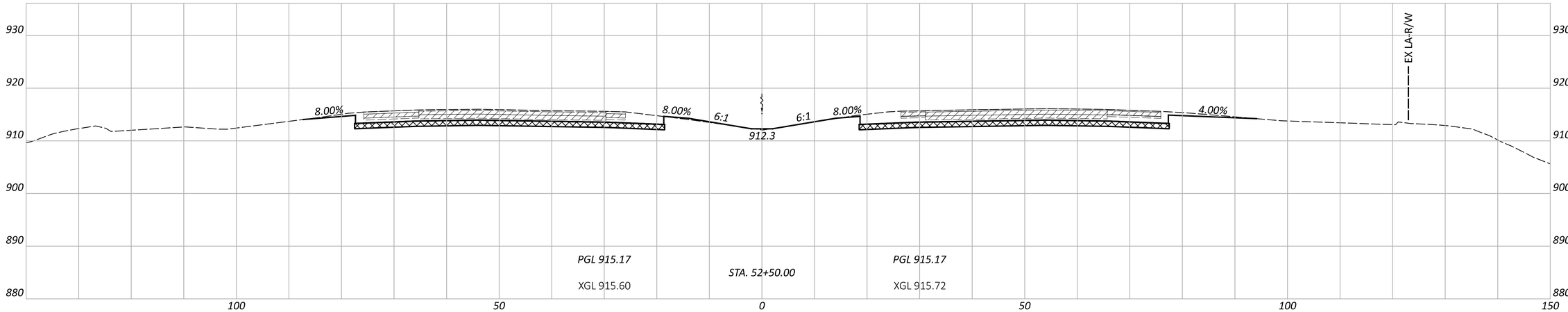

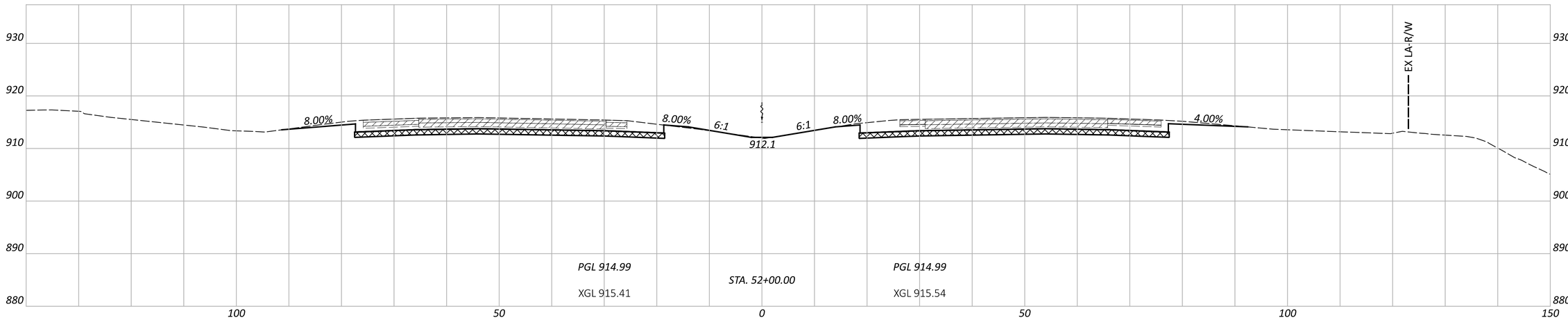

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 52+00.00 TO STA 53+00.00

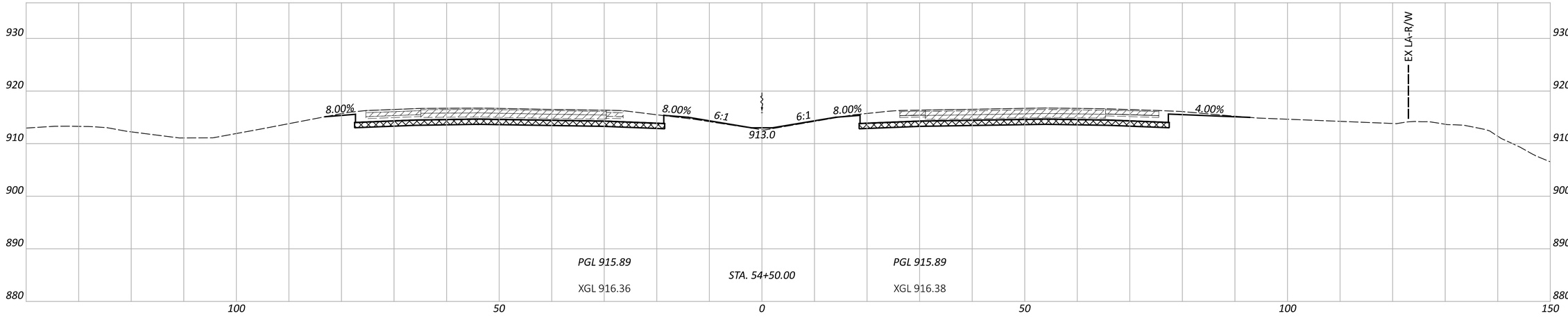
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

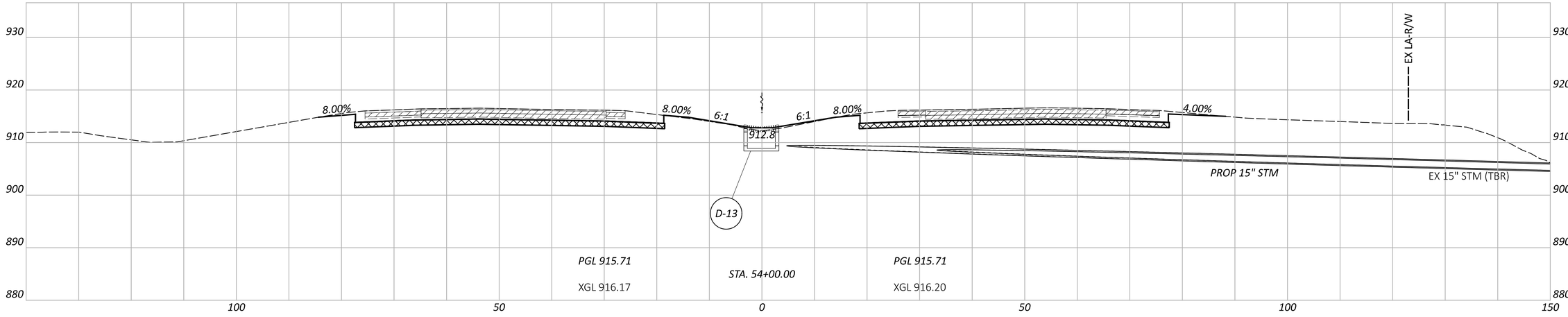
DESIGNER
ARM

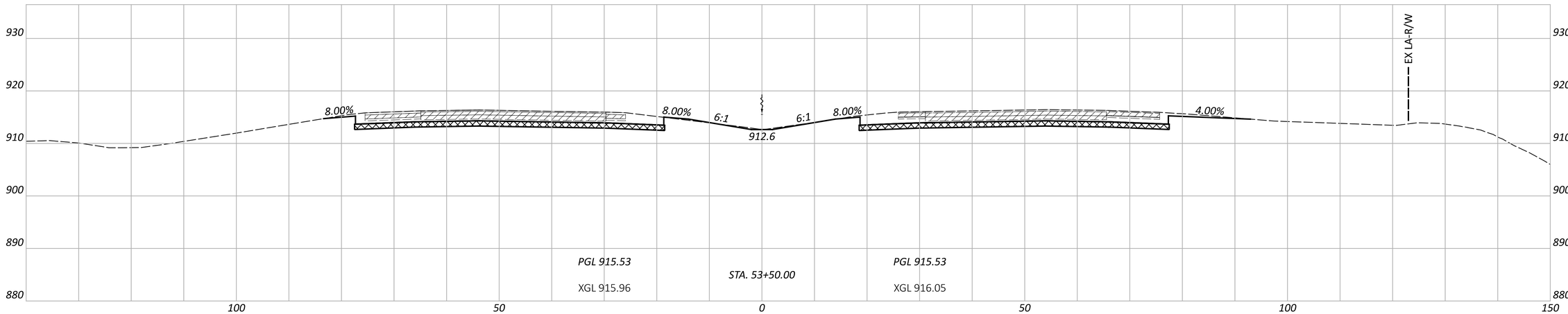
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.256 | TOTAL 577







CROSS SECTIONS - IR 70
STA 53+50.00 TO STA 54+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.257 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 53+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:21:10 PM USER: AMerrill
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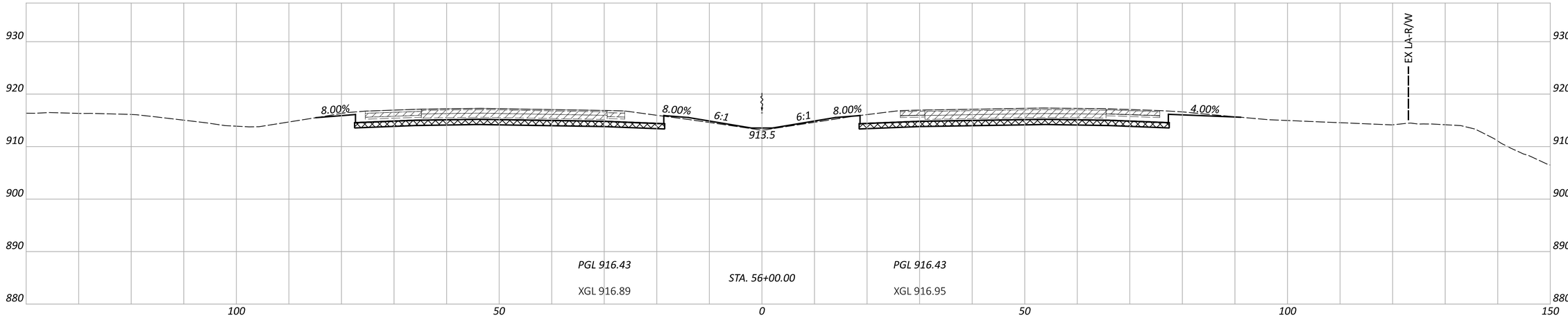

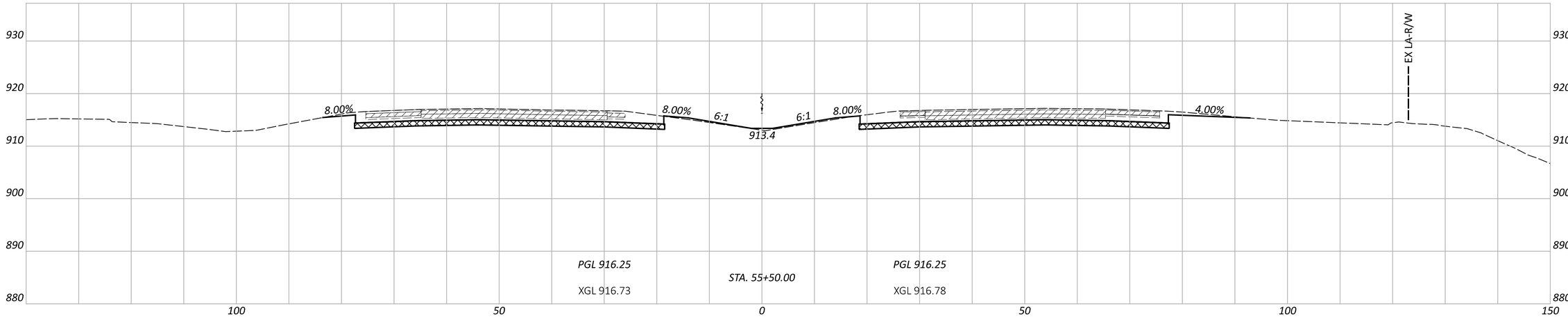

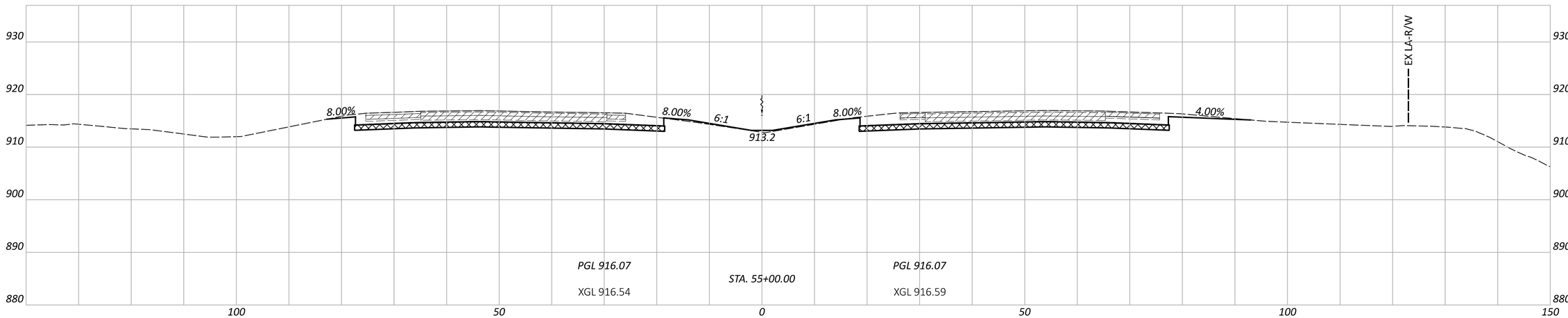

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 55+00.00 TO STA 56+00.00

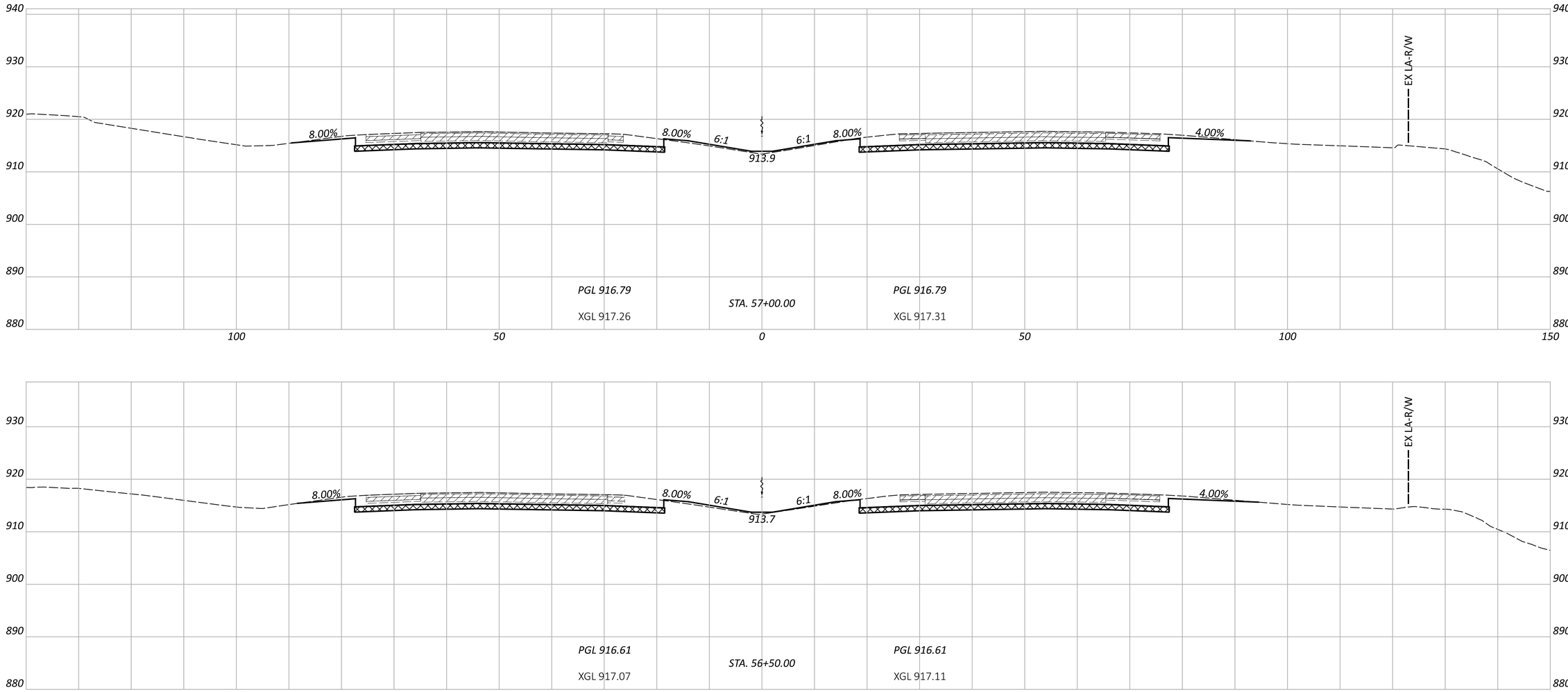
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.258 | TOTAL 577



CROSS SECTIONS - IR 70
STA 56+50.00 TO STA 57+00.00

FRA-70-00.00

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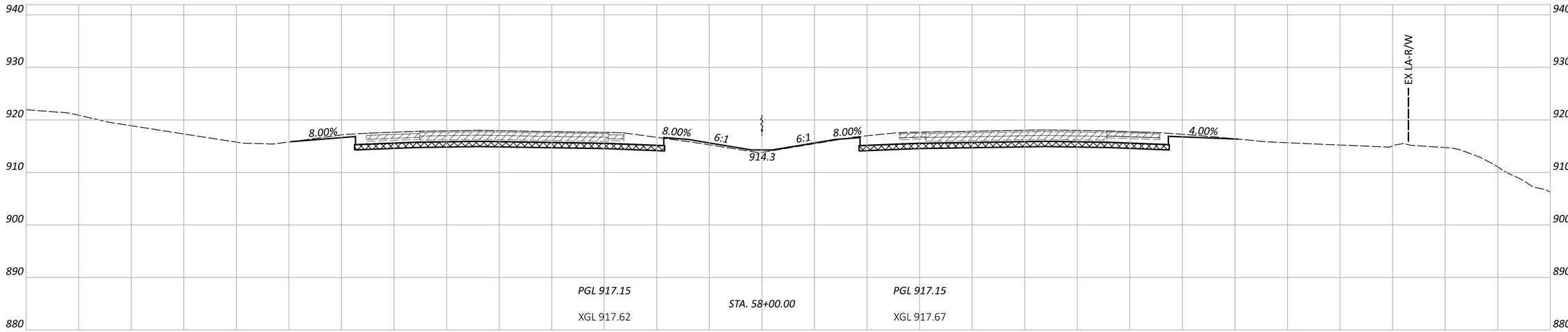
DESIGN AGENCY
STRUCTUREPOINT LLC

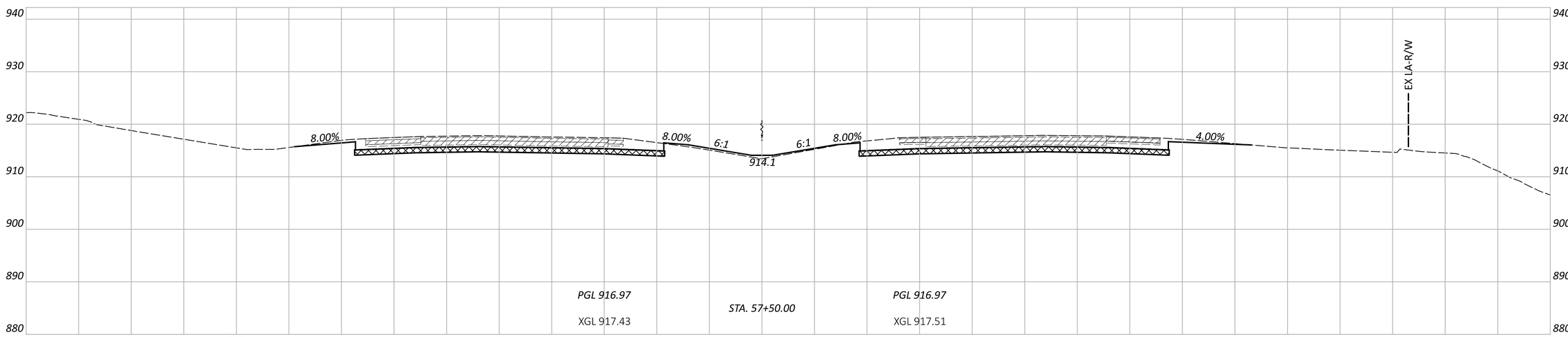
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.259 | TOTAL 577





CROSS SECTIONS - IR 70
STA 57+50.00 TO STA 58+00.00

FRA-70-00.00

MODEL: CLP_I070 - 57+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:21:26 PM USER: AMerrill
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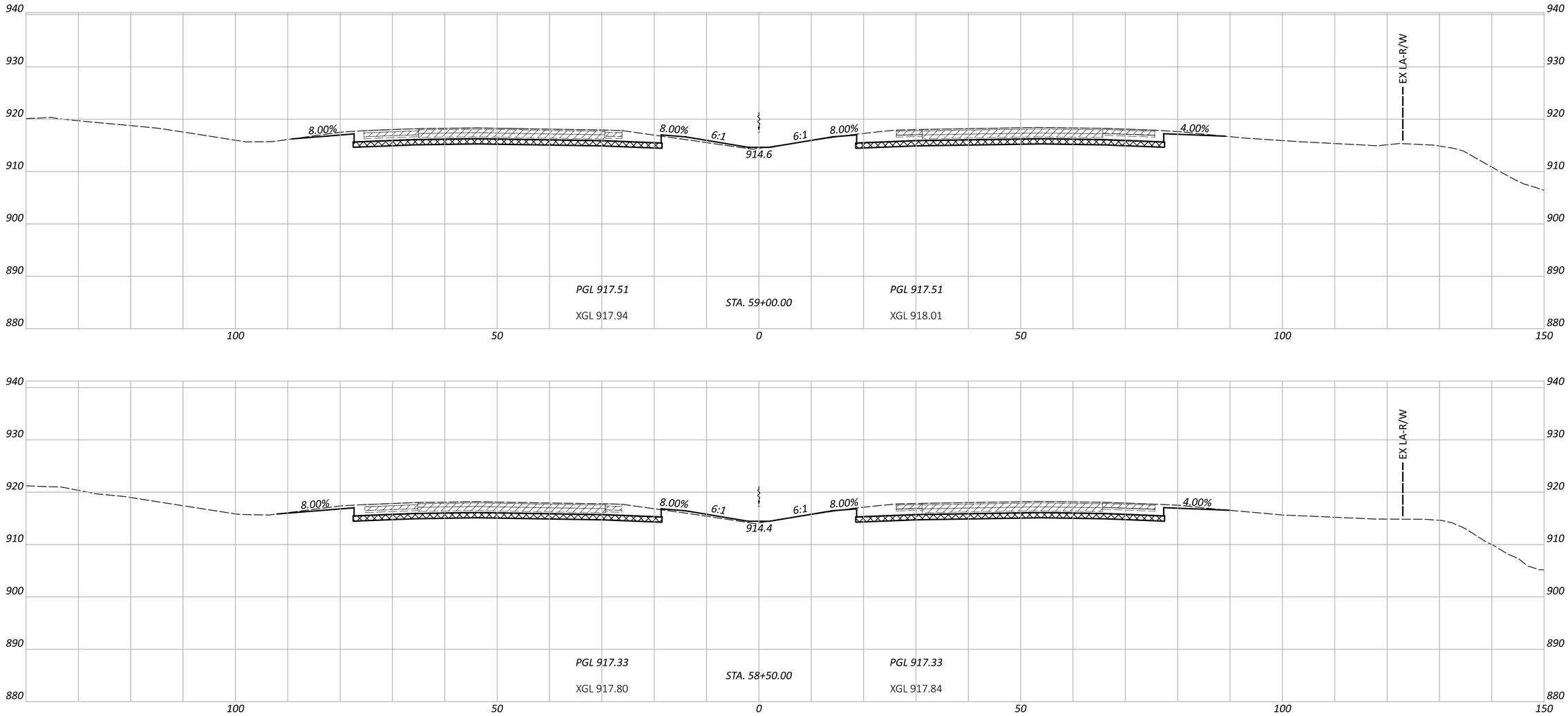
DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.260 | TOTAL 577



CROSS SECTIONS - IR 70
STA 58+50.00 TO STA 59+00.00

FRA-70-00.00

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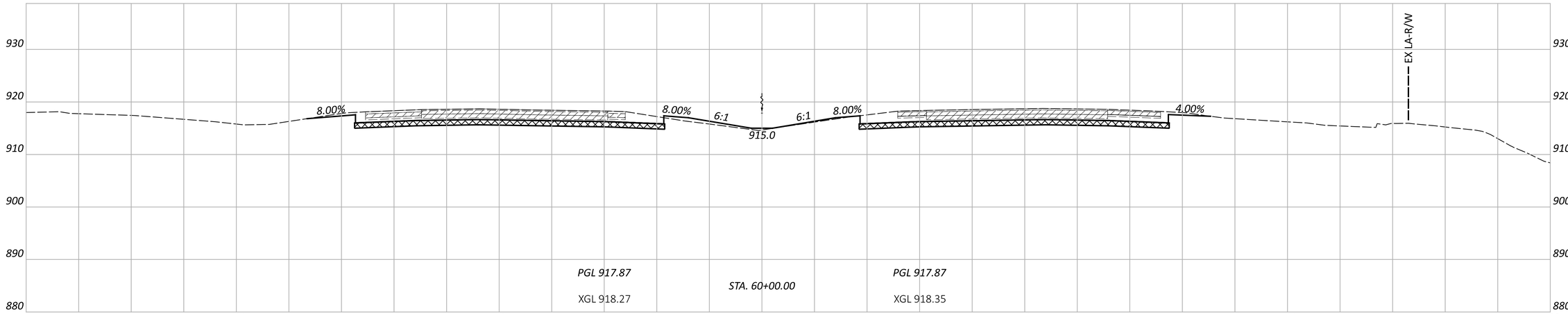
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

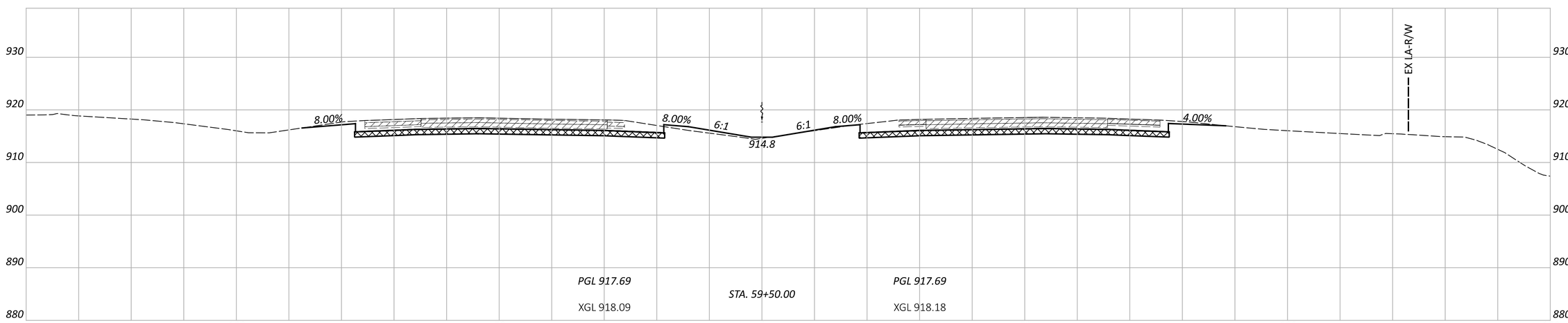
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.261 TOTAL 577





CROSS SECTIONS - IR 70
STA 59+50.00 TO STA 60+00.00

FRA-70-00.00

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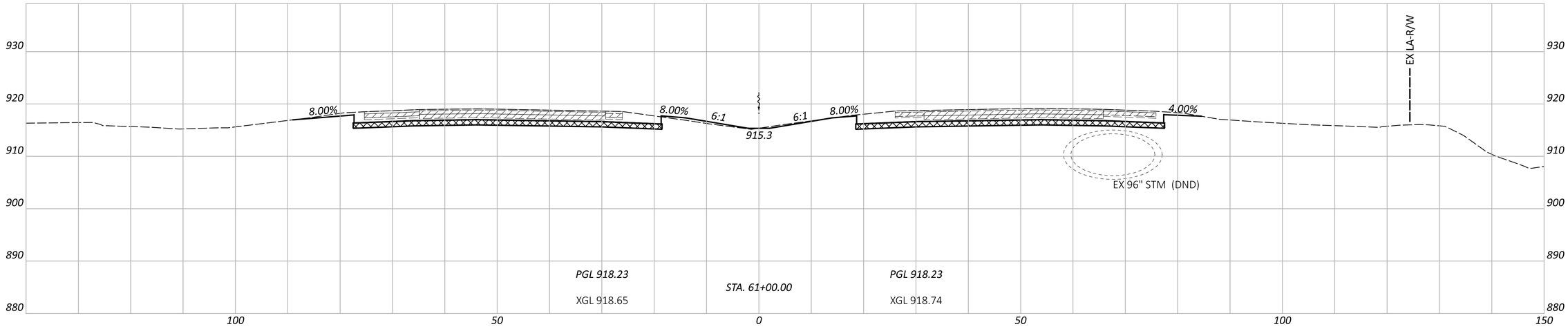
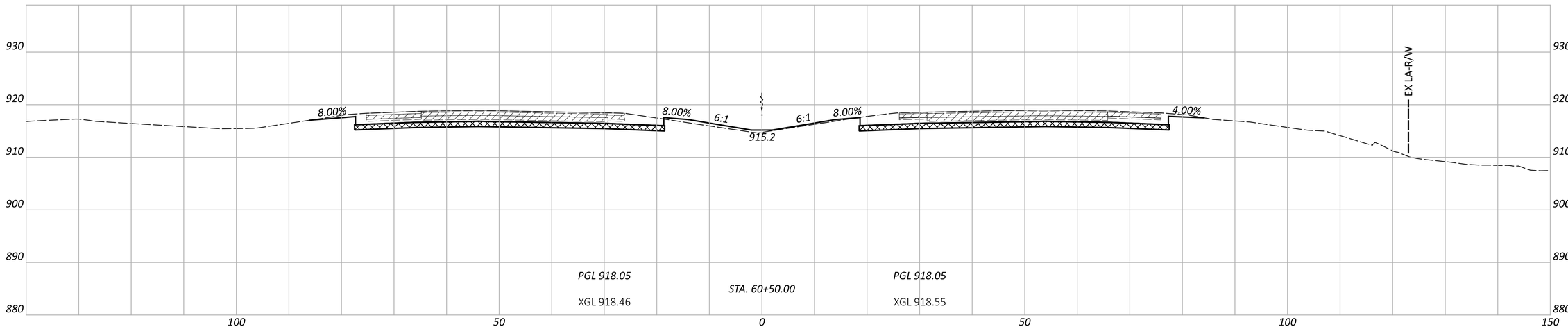
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.262
TOTAL	577





CROSS SECTIONS - IR 70
STA 60+50.00 TO STA 61+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 12-13-24

PROJECT ID
116949

SHEET P.262A | TOTAL 577

FRA-70-0.00

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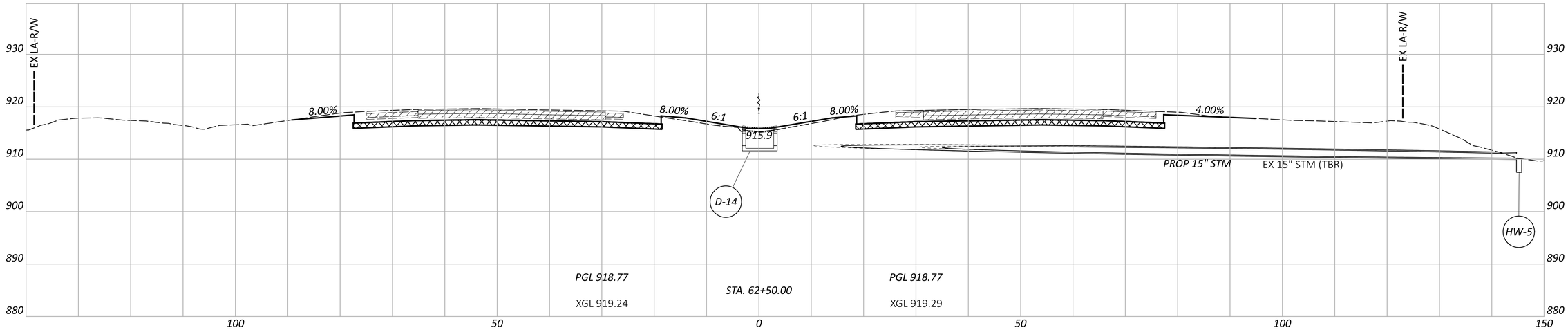

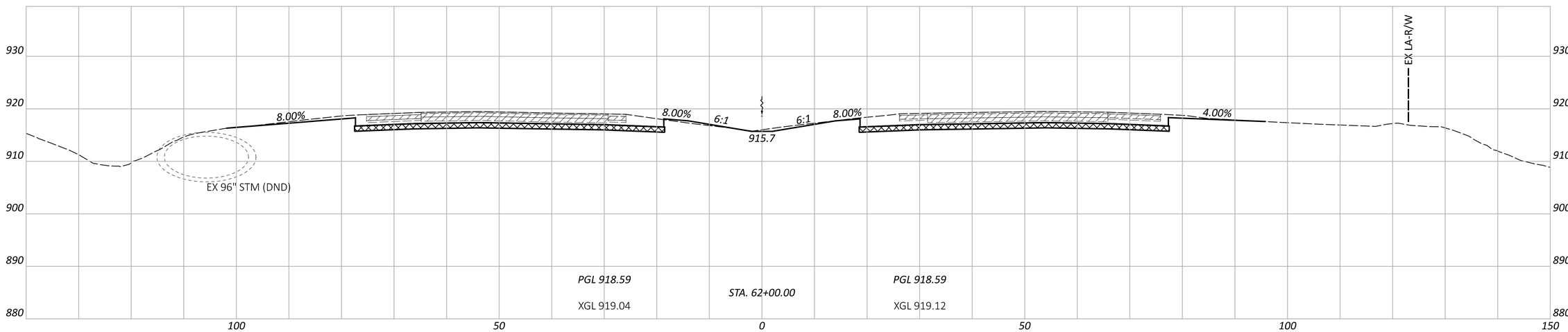

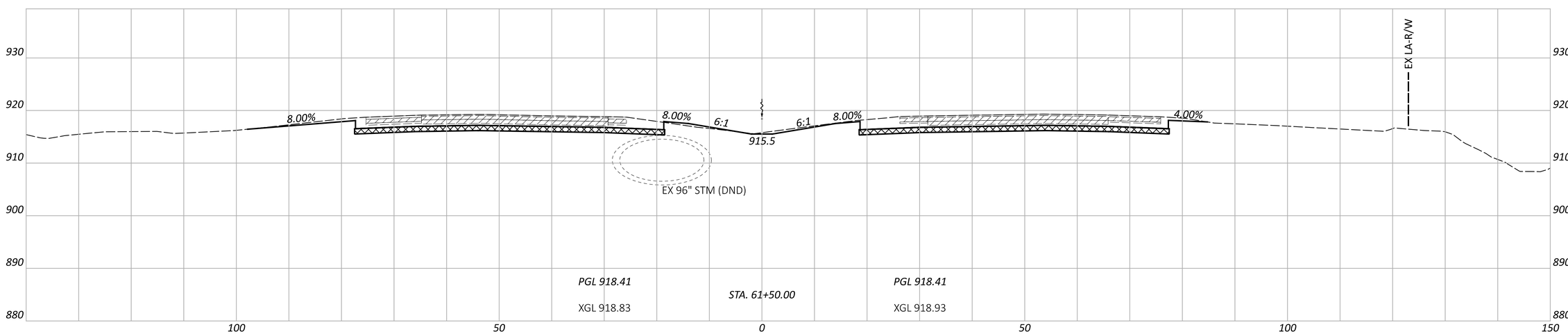

CROSS SECTIONS - IR 70
STA 61+50.00 TO STA 62+50.00

DESIGN AGENCY
WHITMAN STRUCTUREPOINT INC.

DESIGNER ARM

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.263 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 61+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:21:47 PM USER: AMerrill
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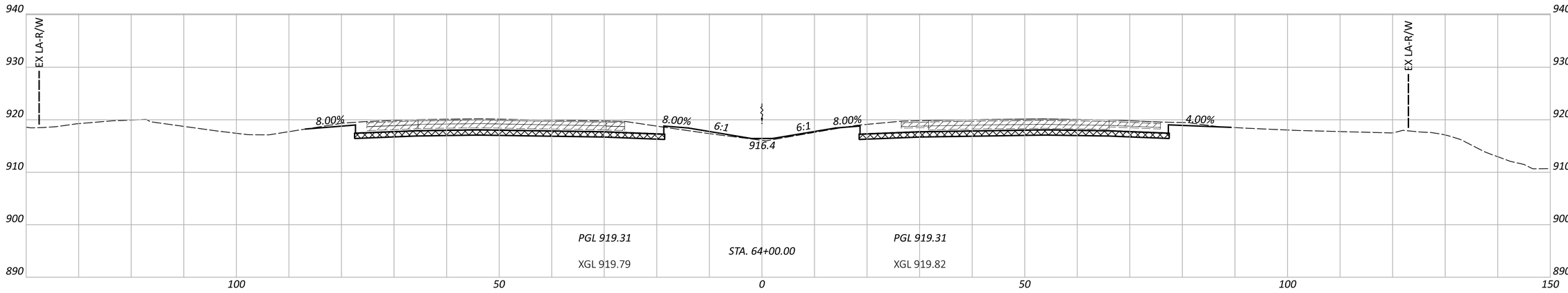

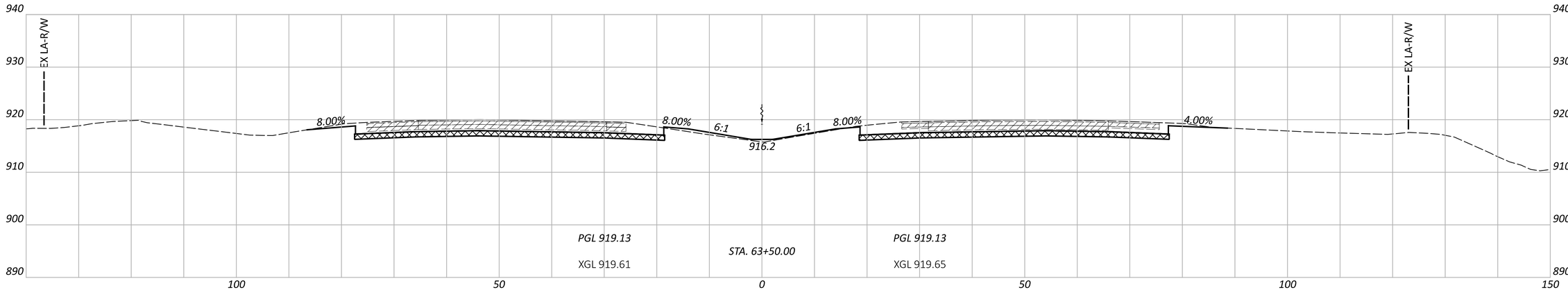

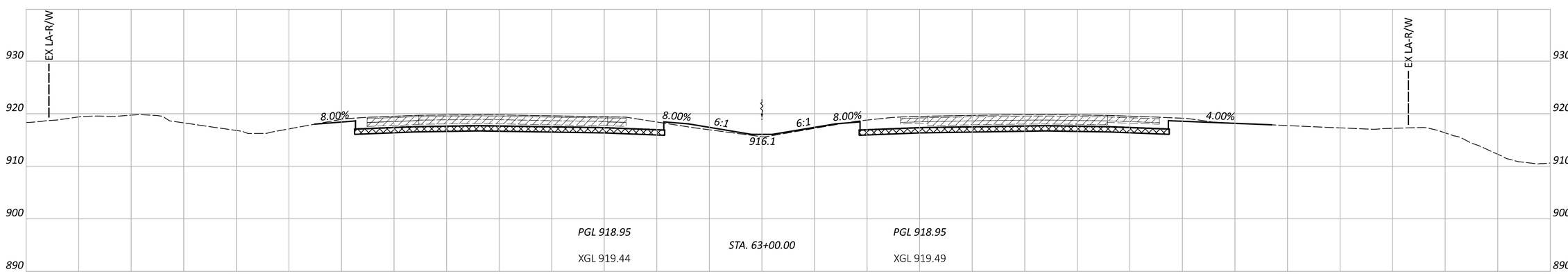

CROSS SECTIONS - IR 70
STA 63+00.00 TO STA 64+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.264 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 63+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:21:54 PM USER: AMerrill
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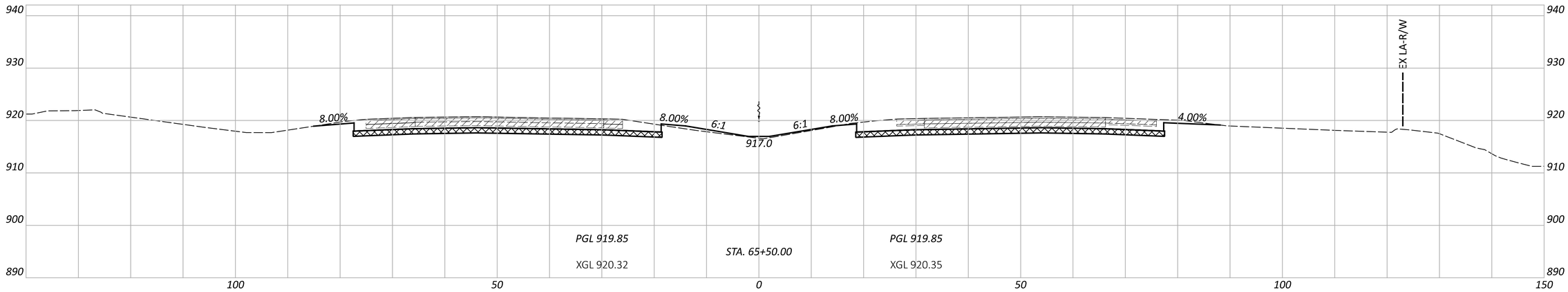

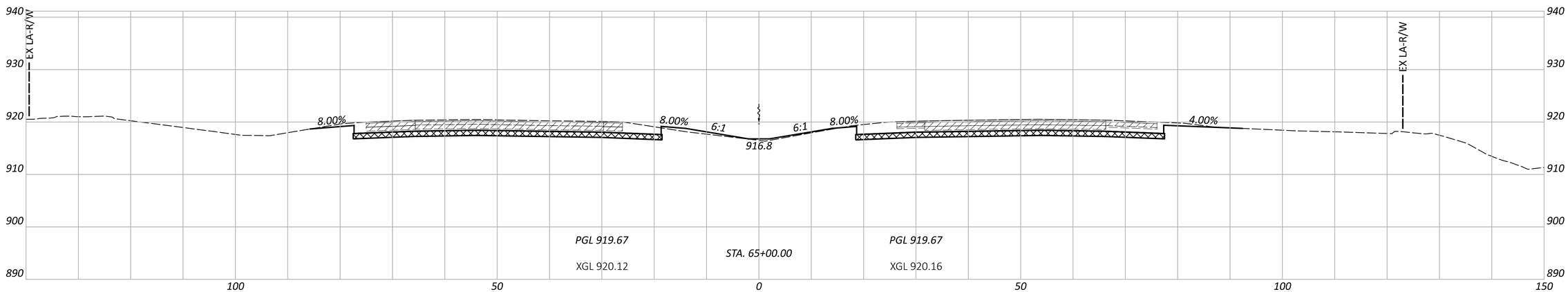

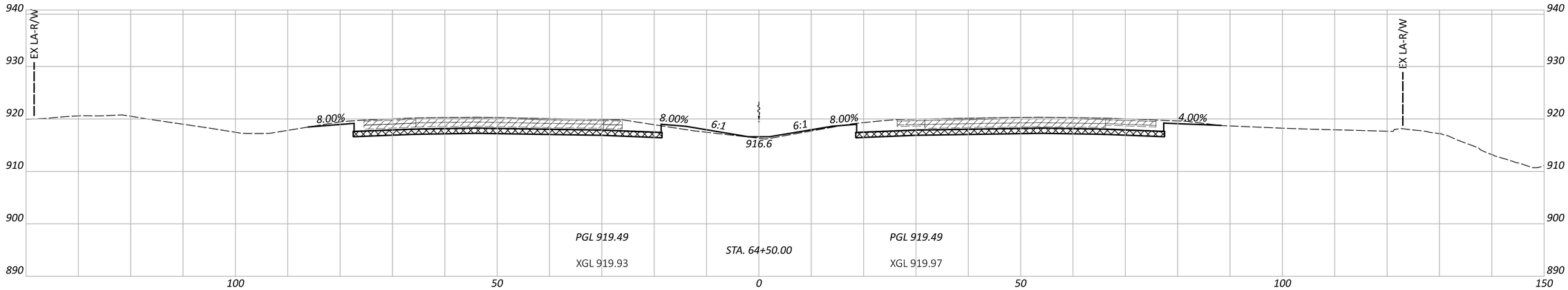

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 64+50.00 TO STA 65+50.00

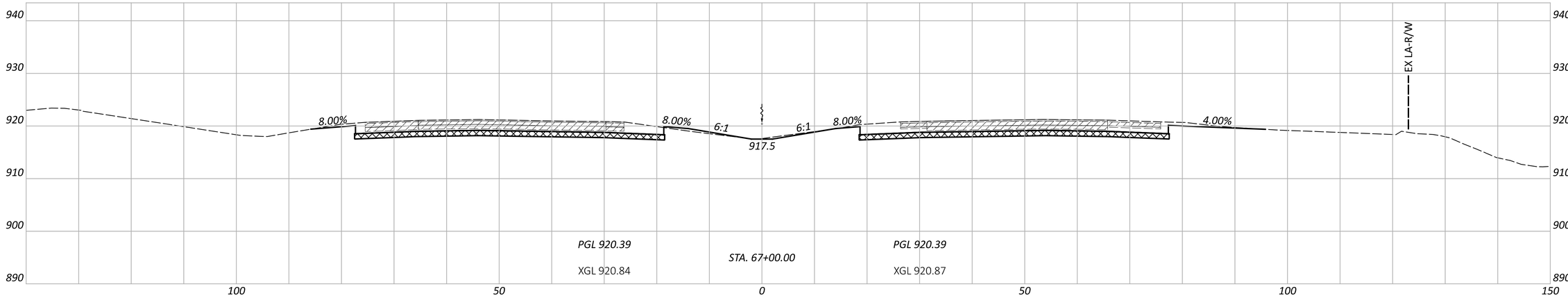
DESIGN AGENCY
STRUCTUREPOINT LLC

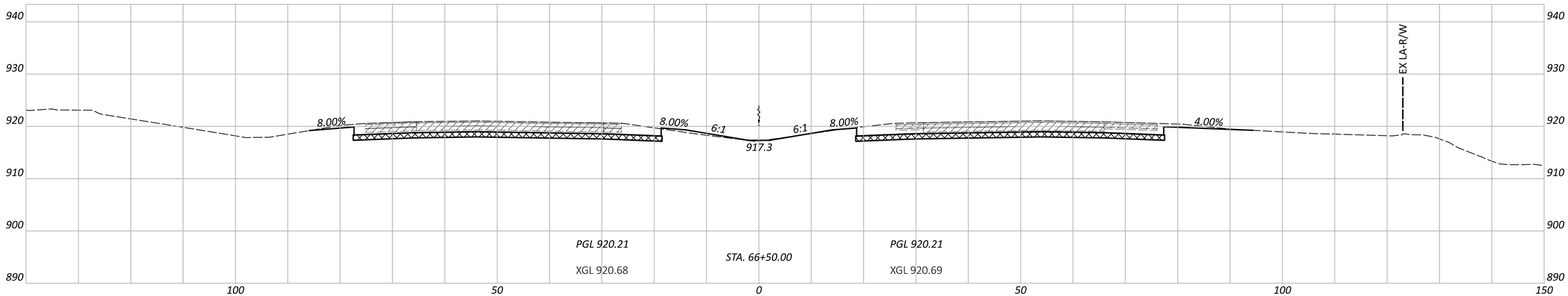
DESIGNER
ARM

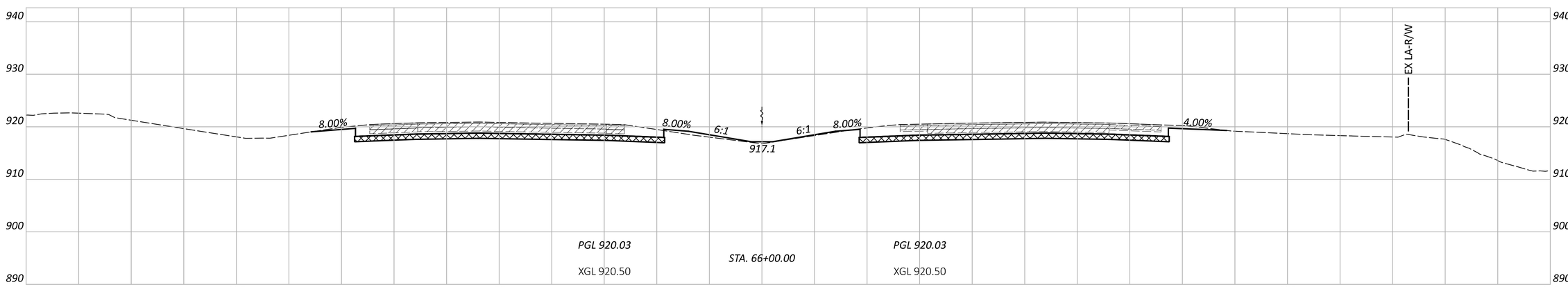
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.265 | TOTAL 577







CROSS SECTIONS - IR 70
STA 66+00.00 TO STA 67+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.266 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 66+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:22:05 PM USER: AMerrill
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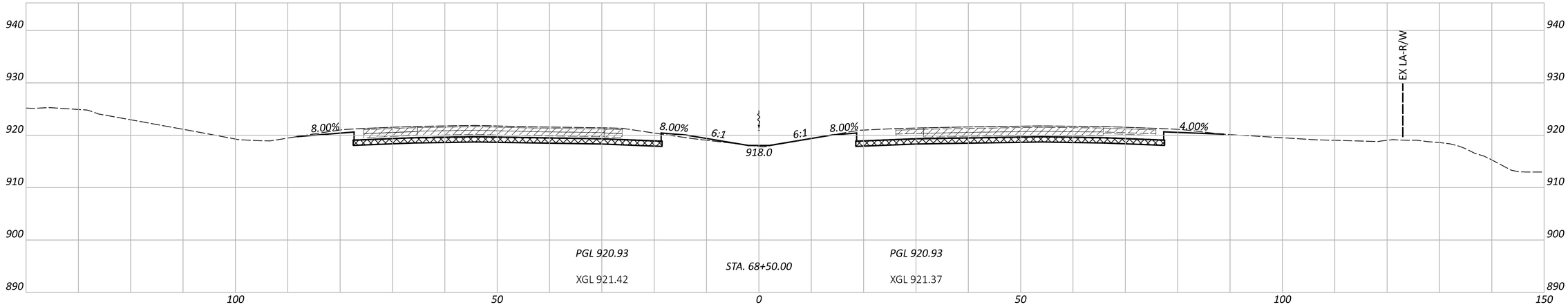

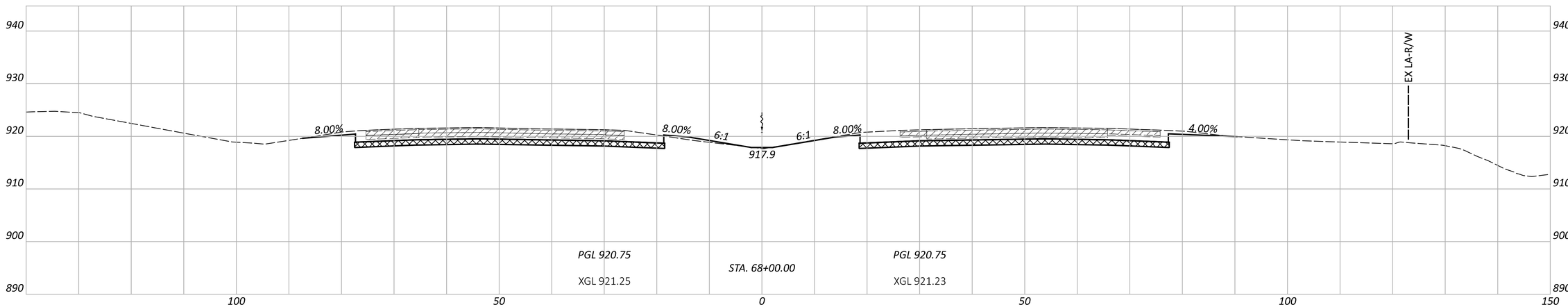

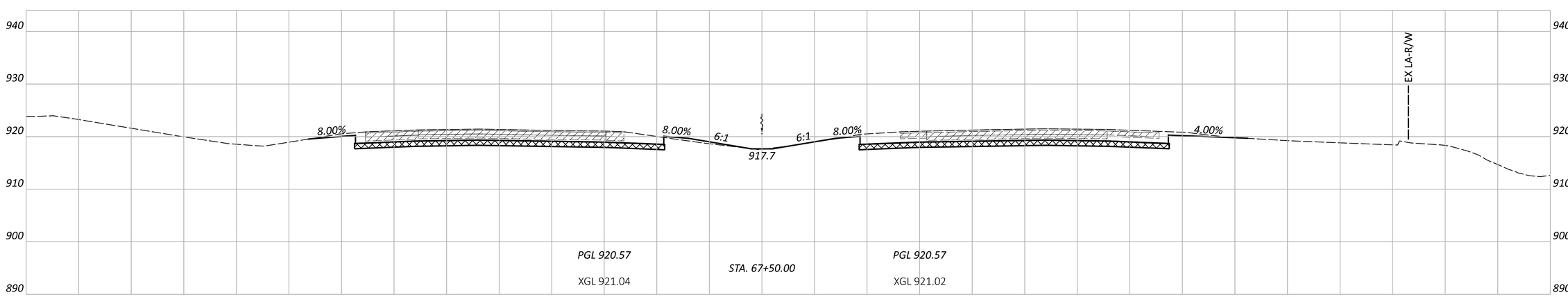

CROSS SECTIONS - IR 70
STA 67+50.00 TO STA 68+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

FRA-70-00.00

MODEL: CLP_I070 - 67+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:22:11 PM USER: AMerrill
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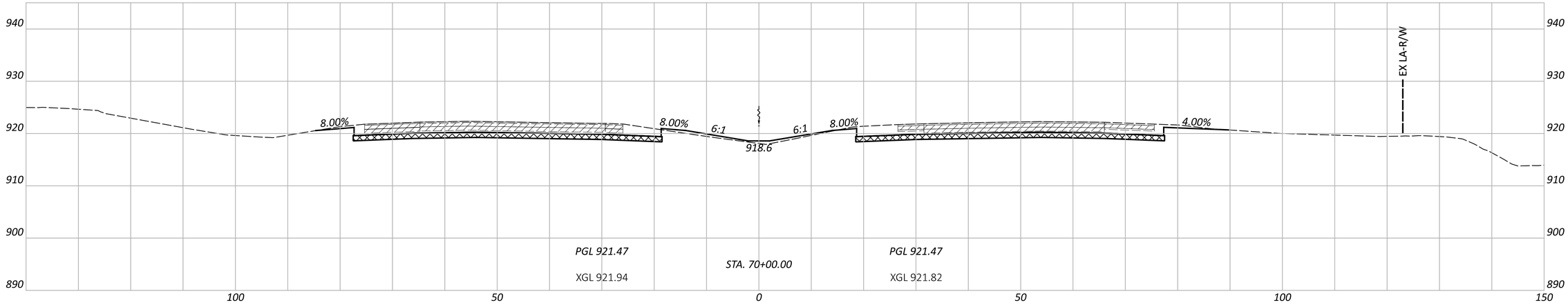

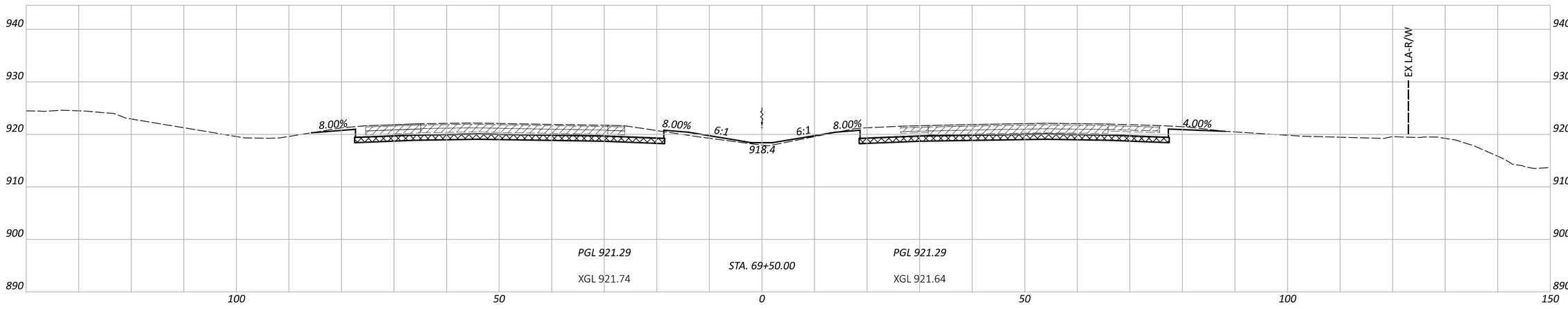

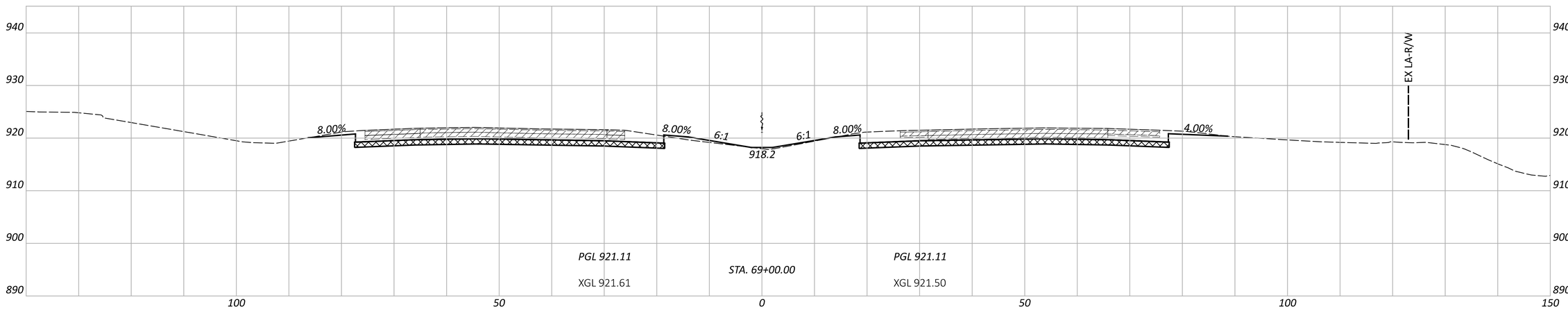

CROSS SECTIONS - IR 70
STA 69+00.00 TO STA 70+00.00

FRA-70-00.00

MODEL: CLP_I070 - 69+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:22:17 PM USER: AMerrill
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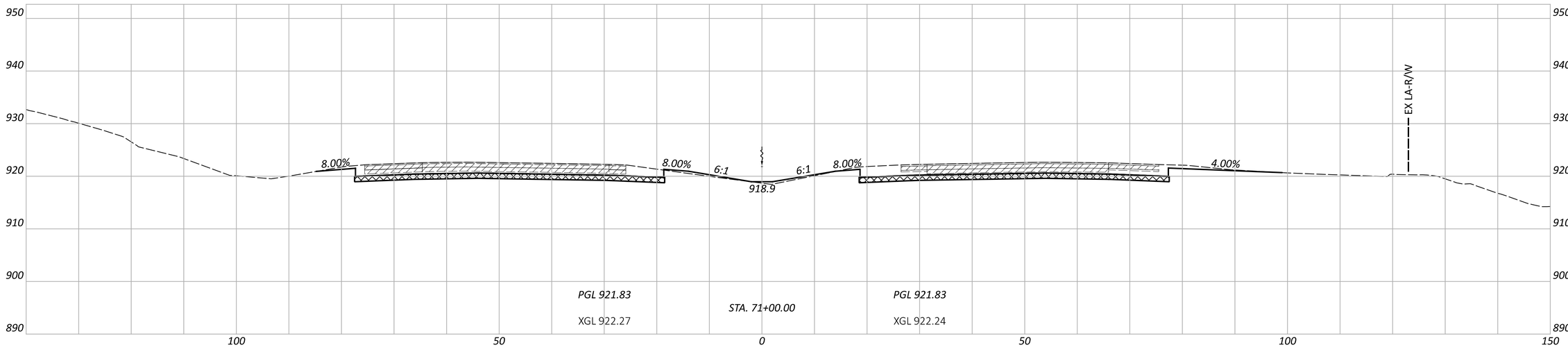
DESIGN AGENCY
STRUCTUREPOINT LLC

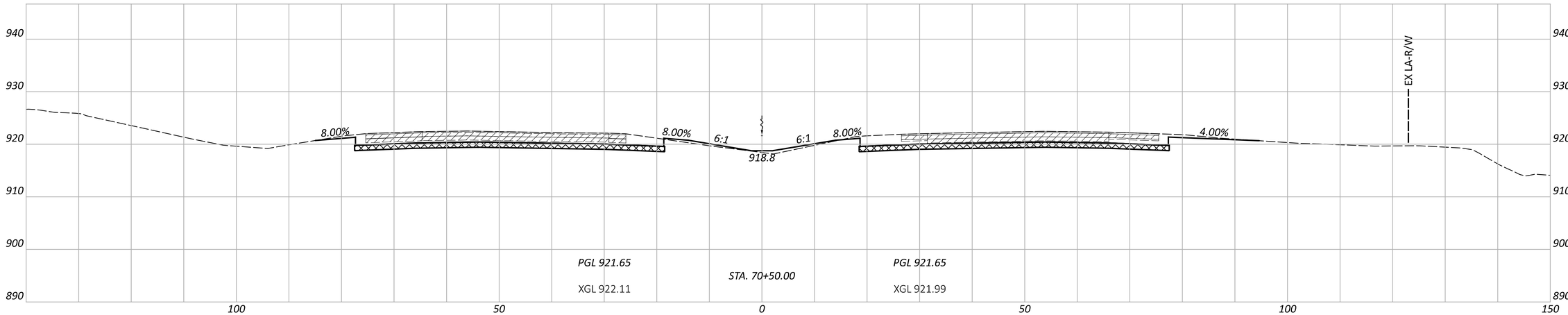
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.268 TOTAL 577





CROSS SECTIONS - IR 70
STA 70+50.00 TO STA 71+00.00

FRA-70-00.00

MODEL: CLP_I070 - 70+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:22:23 PM USER: AMerrill
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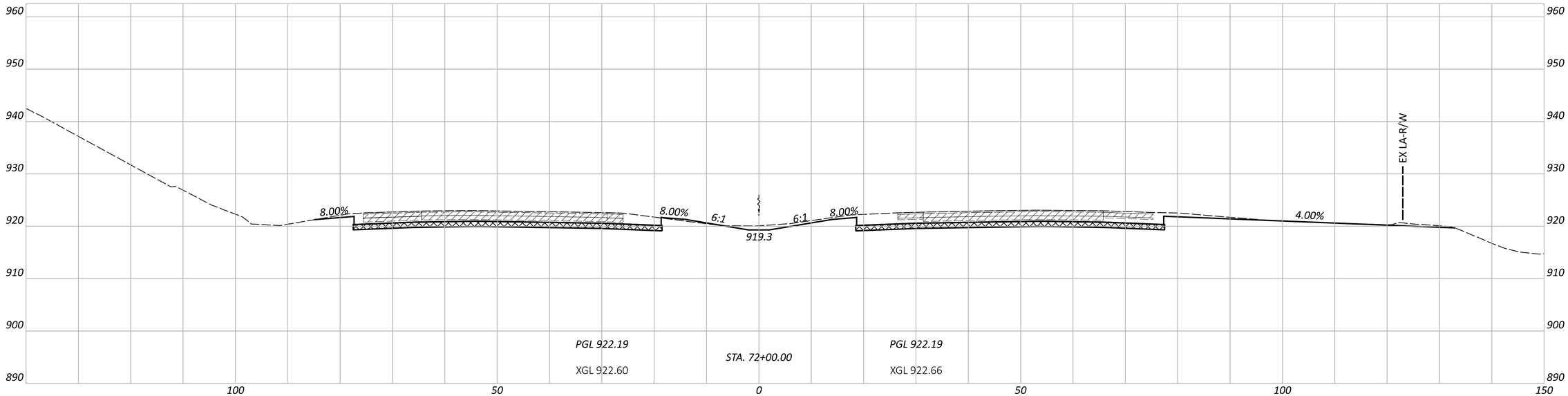
DESIGN AGENCY
STRUCTUREPOINT LLC

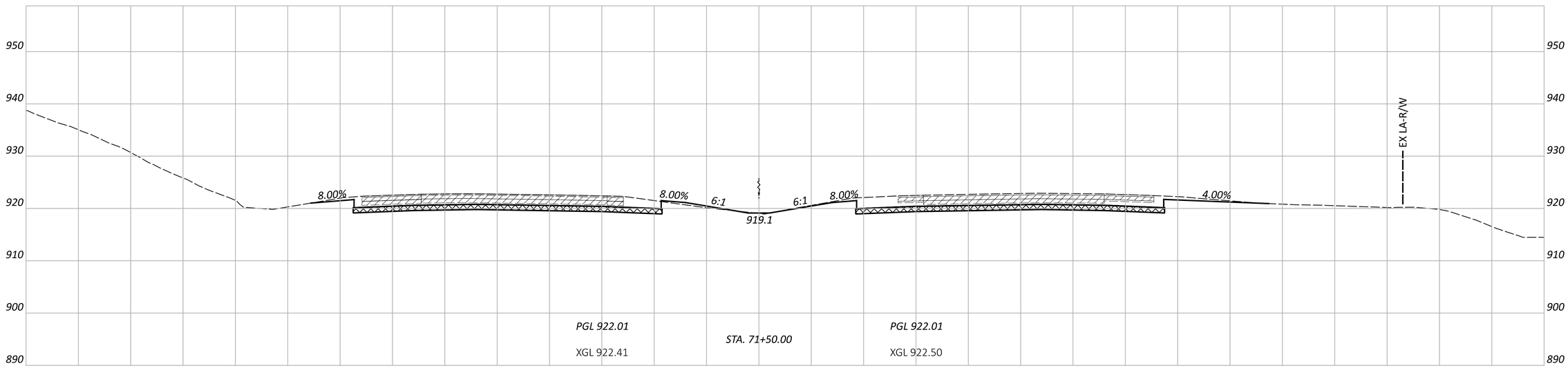
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.269 | TOTAL 577





CROSS SECTIONS - IR 70
STA 71+50.00 TO STA 72+00.00

FRA-70-00.00

MODEL: CLP_I070 - 71+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:22:27 PM USER: AMerrill
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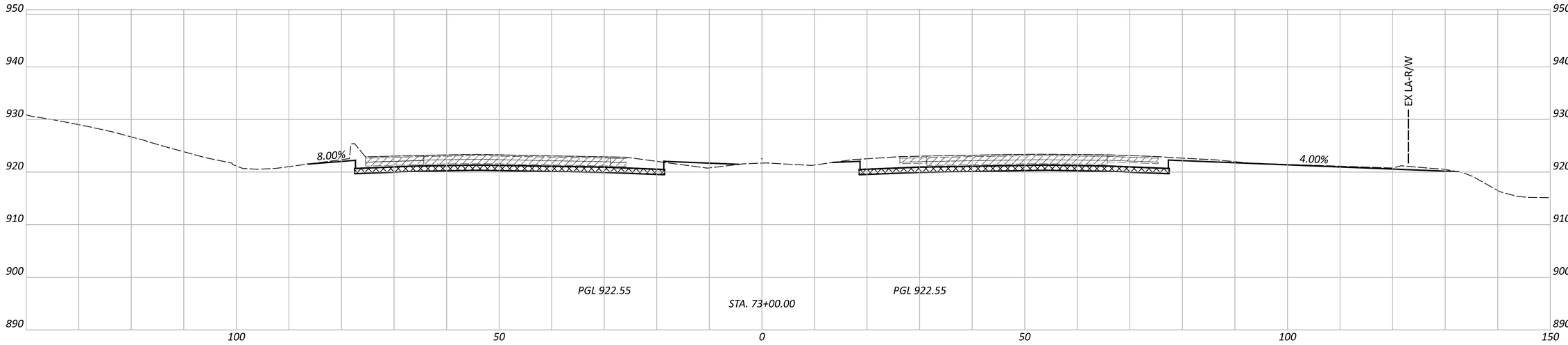
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

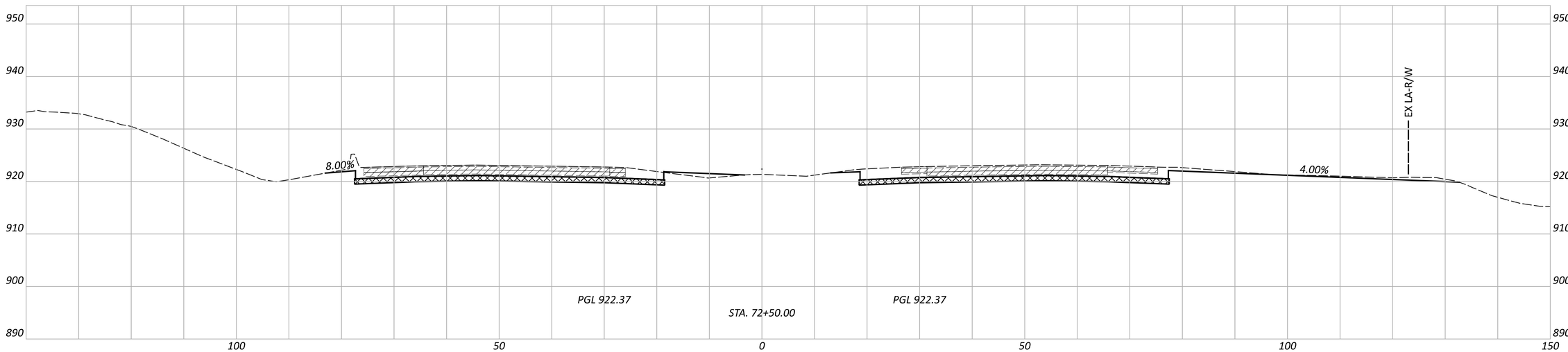
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.270 TOTAL 577





CROSS SECTIONS - IR 70
STA 72+50.00 TO STA 73+00.00

FRA-70-00.00

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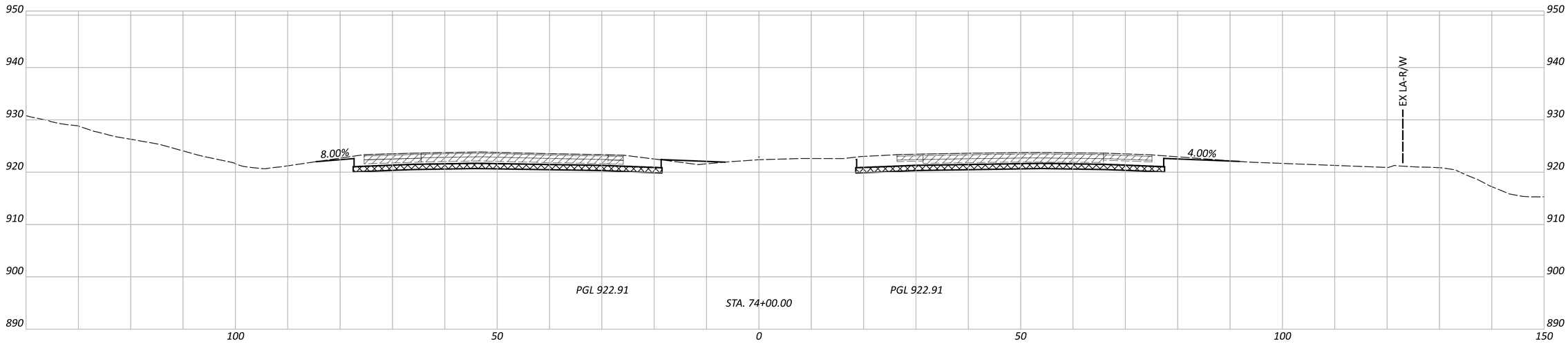
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

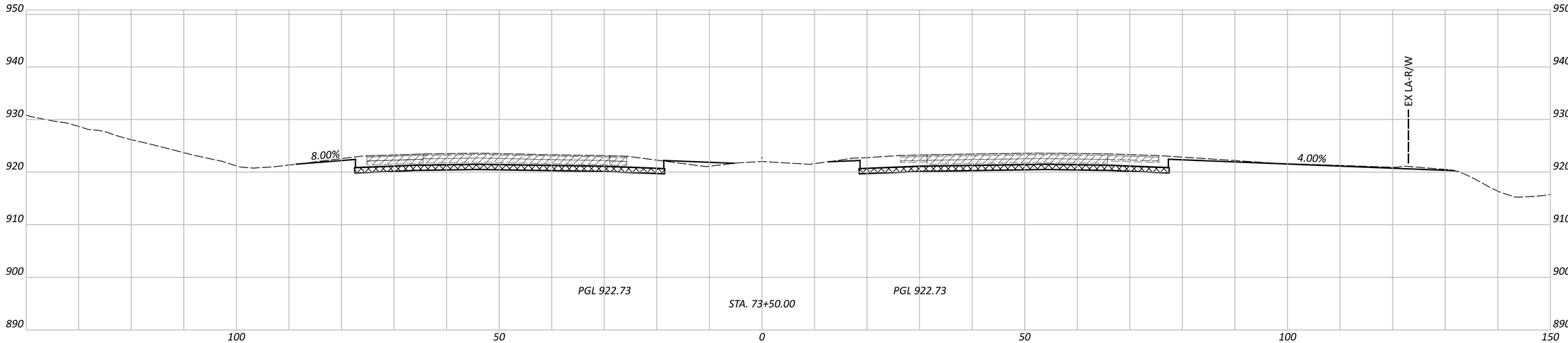
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.271 | TOTAL 577





CROSS SECTIONS - IR 70
STA 73+50.00 TO STA 74+00.00

FRA-70-00.00

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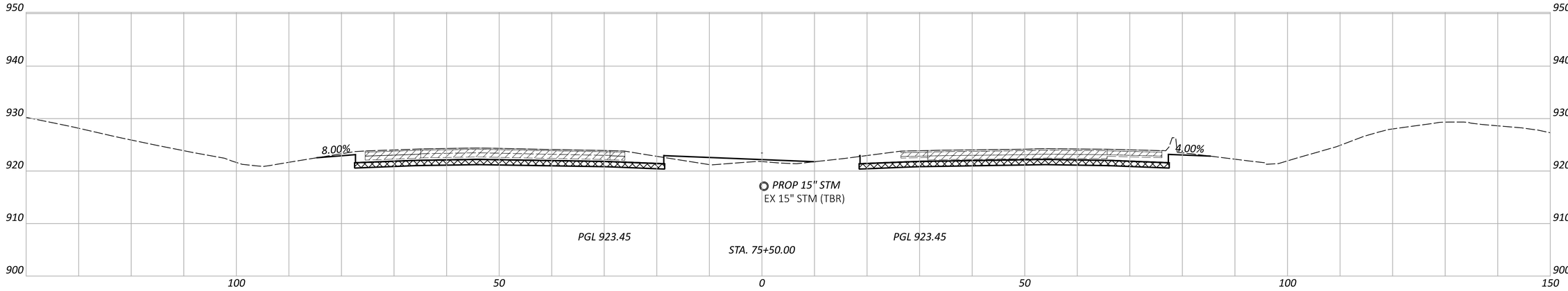
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

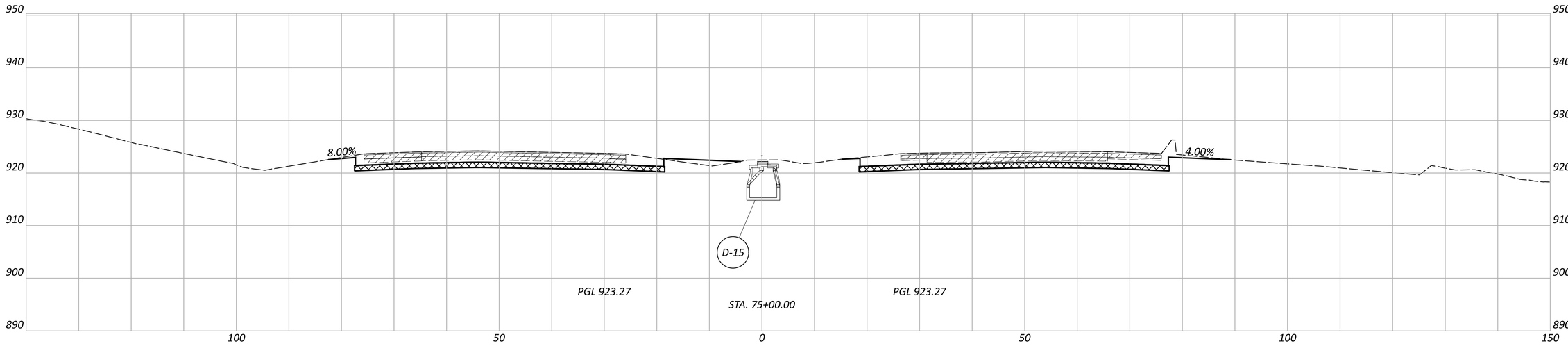
DESIGNER
ARM

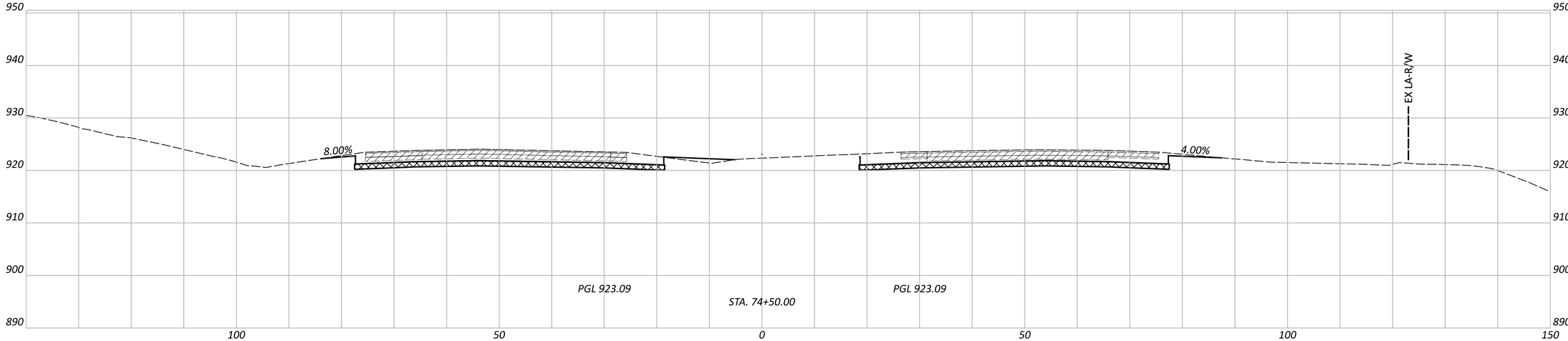
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.272 TOTAL 577







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CROSS SECTIONS - IR 70
STA 74+50.00 TO STA 75+50.00

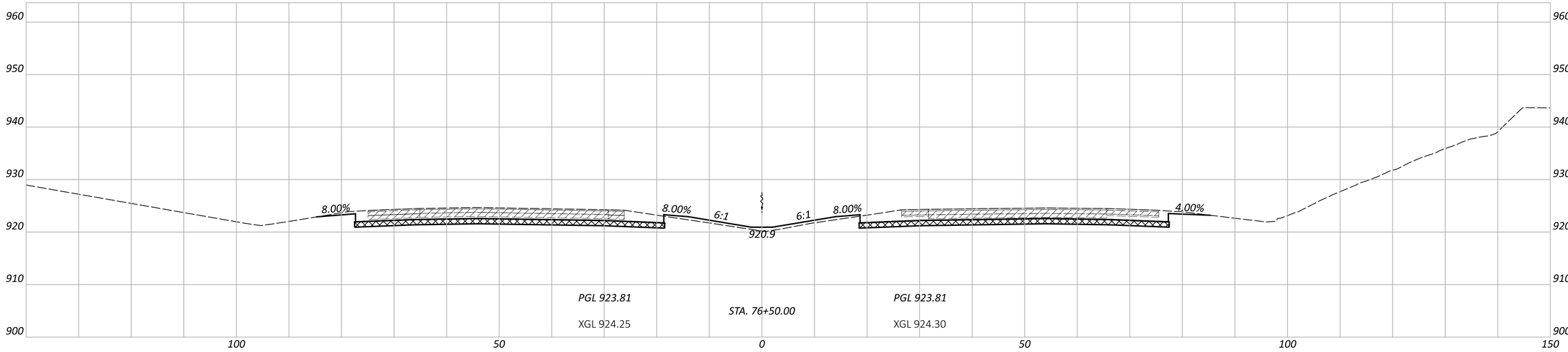
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

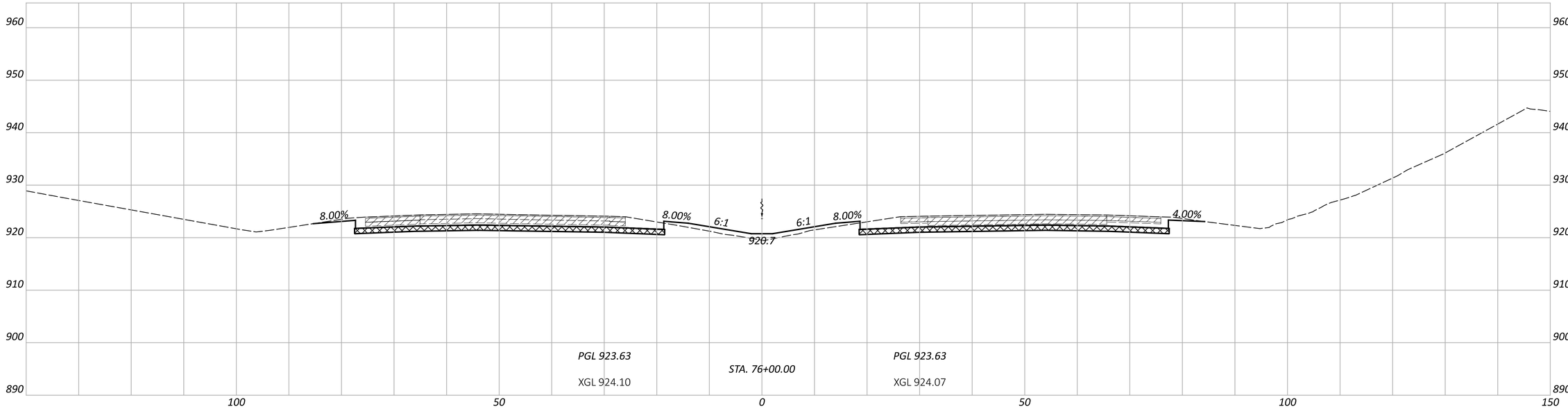
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.273 | TOTAL 577





CROSS SECTIONS - IR 70
STA 76+00.00 TO STA 76+50.00

FRA-70-00.00

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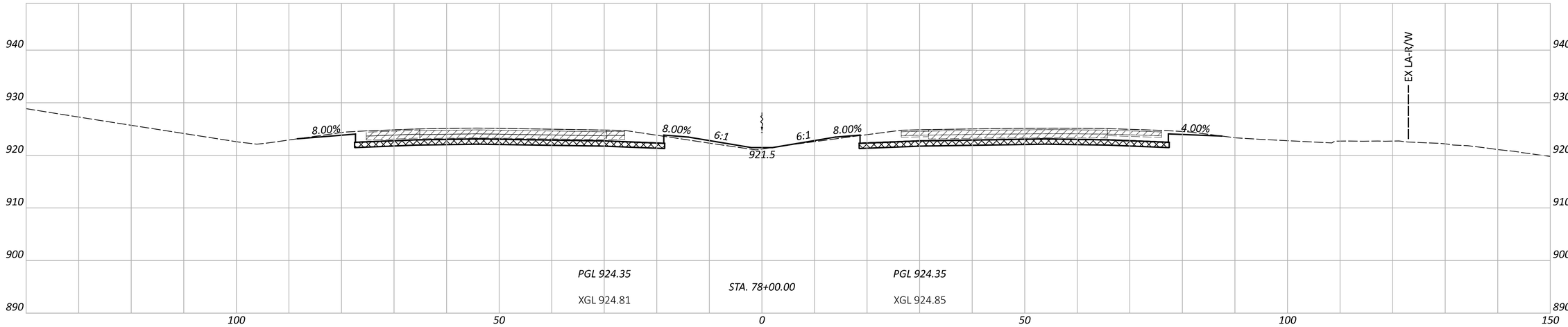
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

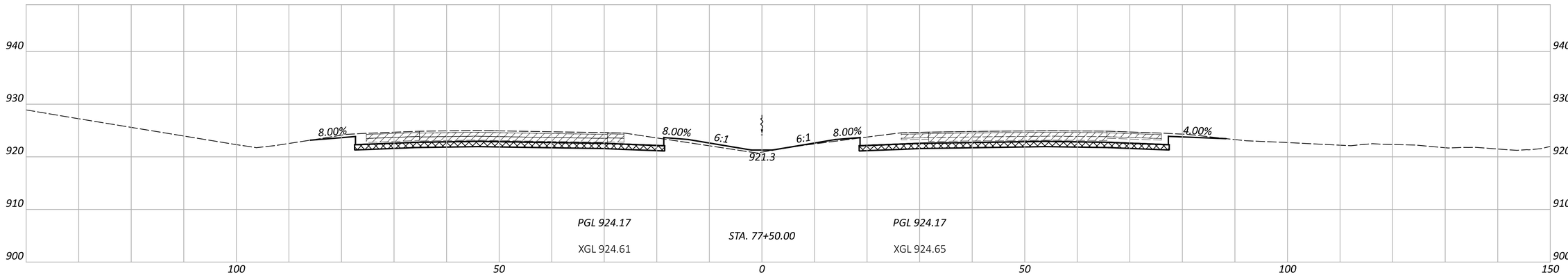
DESIGNER
ARM

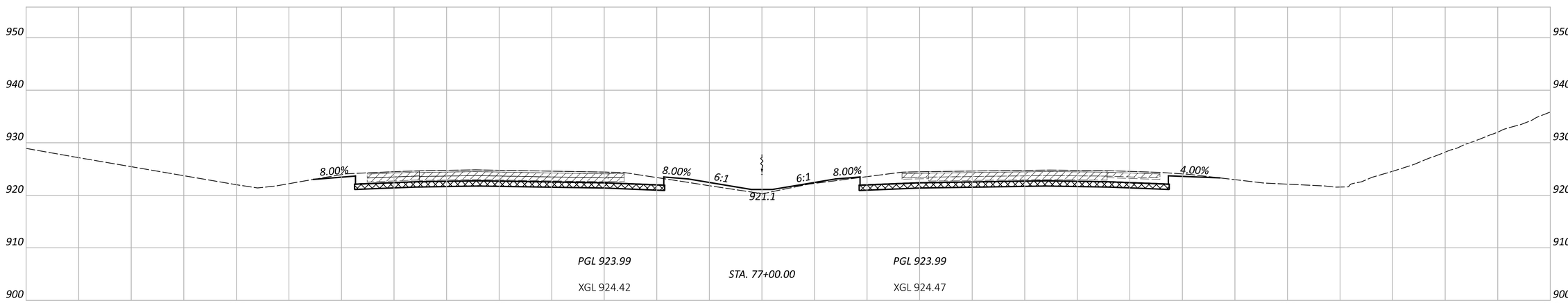
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.274 TOTAL 577







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CROSS SECTIONS - IR 70
STA 77+00.00 TO STA 78+00.00

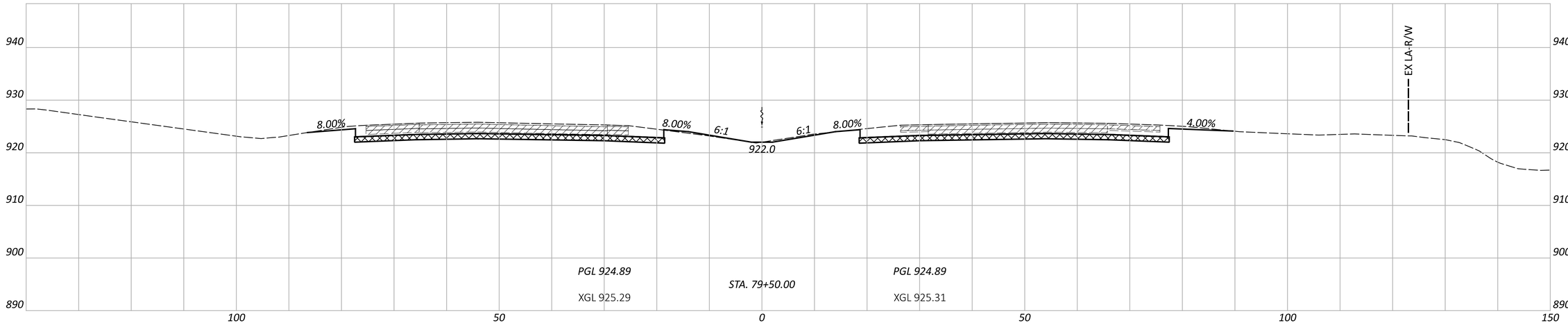
DESIGN AGENCY
STRUCTUREPOINT LLC

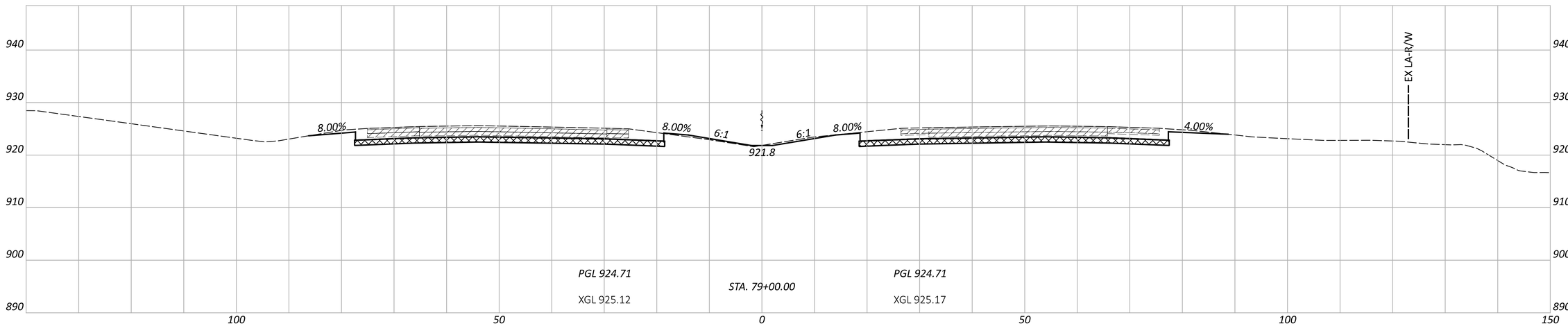
DESIGNER
ARM

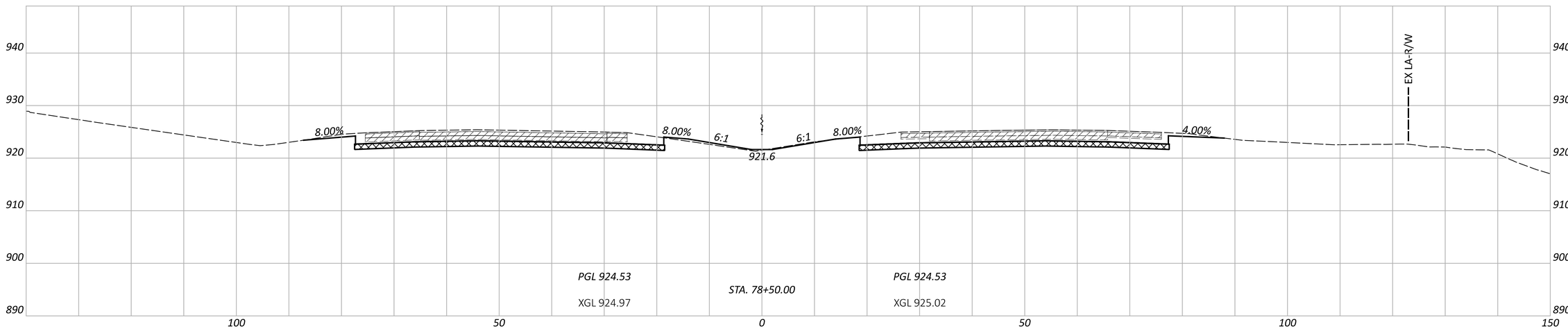
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.275 | TOTAL 577







CROSS SECTIONS - IR 70
STA 78+50.00 TO STA 79+50.00

FRA-70-00.00

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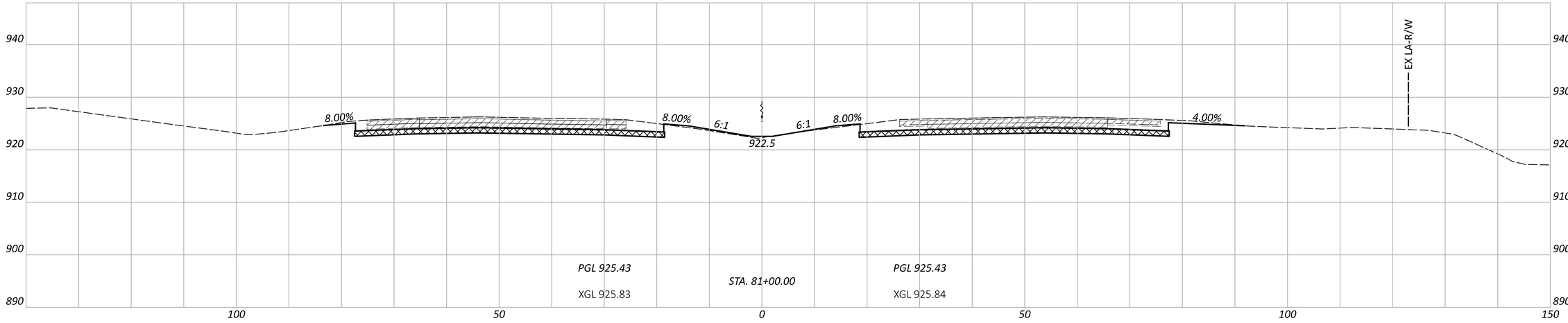
DESIGN AGENCY
STRUCTUREPOINT

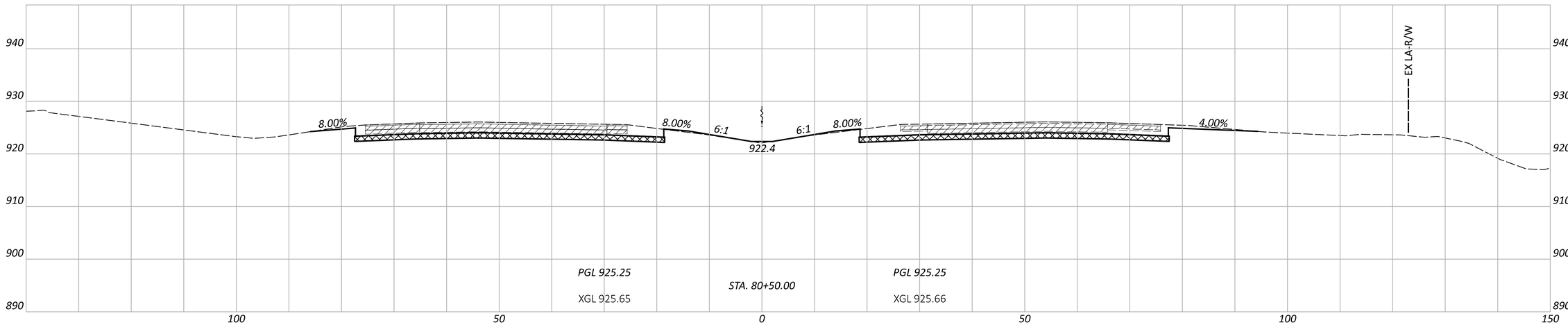
DESIGNER
ARM

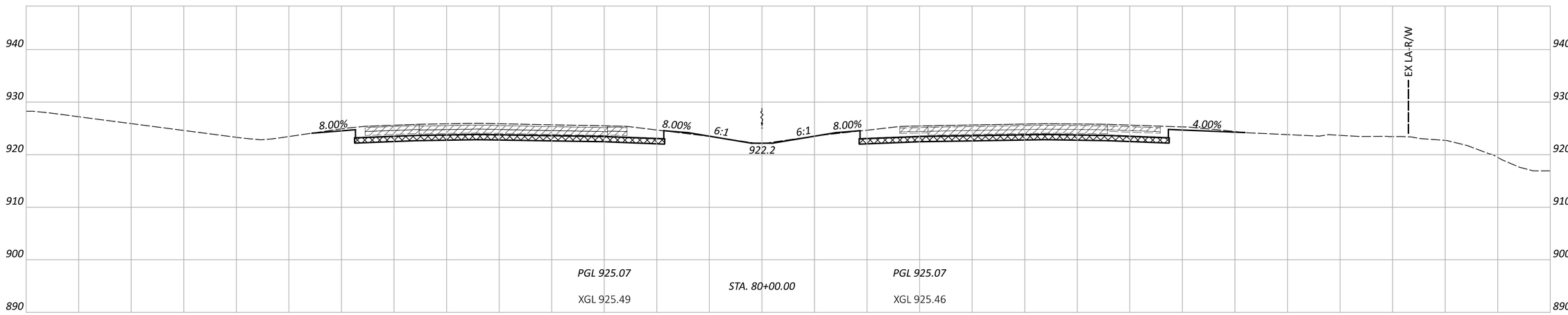
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.276 TOTAL 577







CROSS SECTIONS - IR 70
STA 80+00.00 TO STA 81+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.277 | TOTAL 577

FRA-70-00.00

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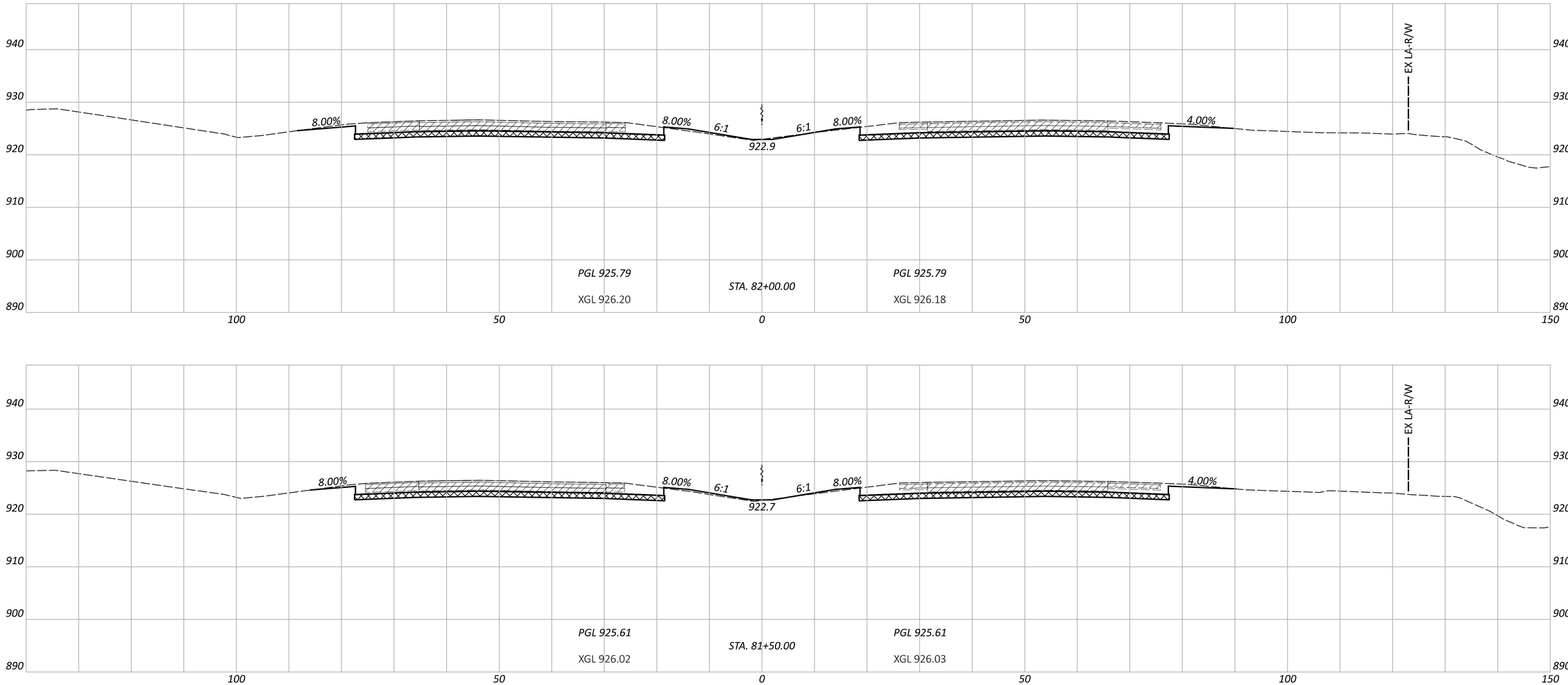

CROSS SECTIONS - IR 70
STA 81+50.00 TO STA 82+00.00

FRA-70-00.00

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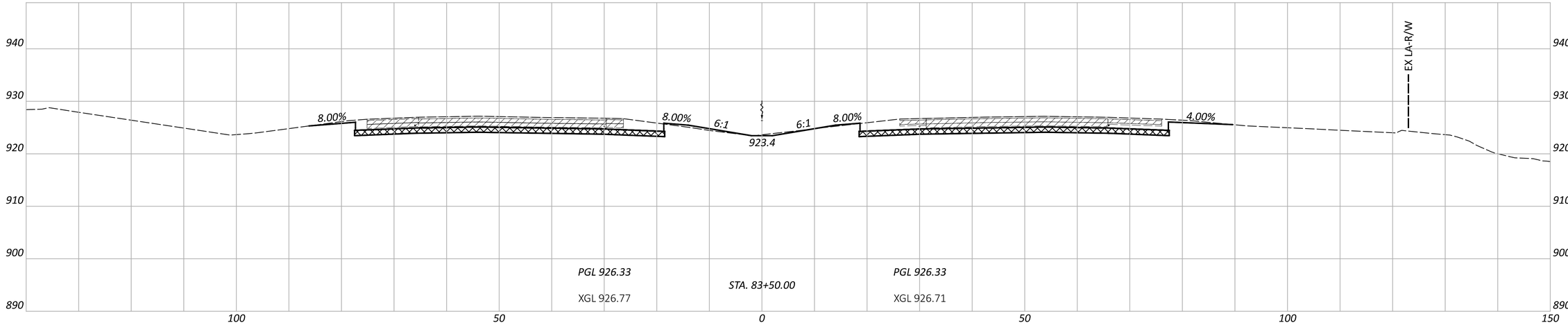
DESIGN AGENCY
STRUCTUREPOINT LLC

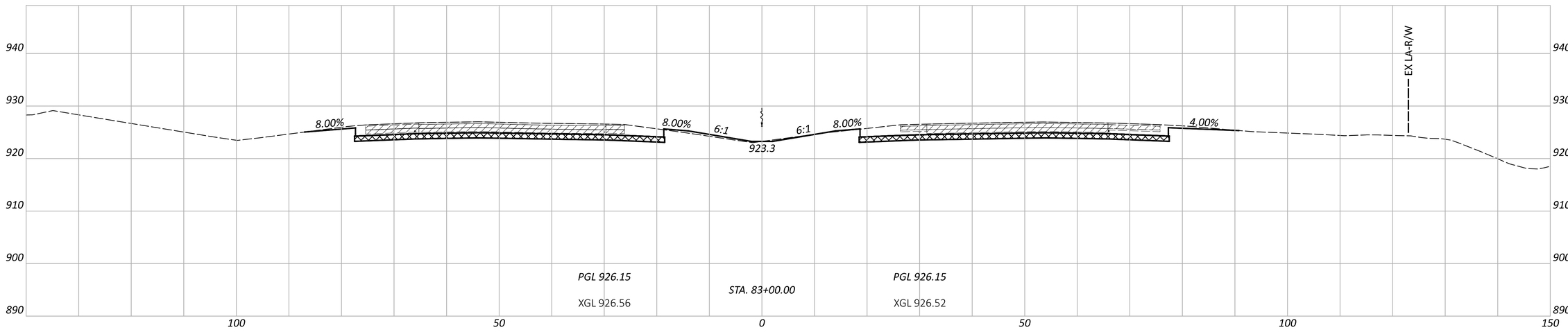
DESIGNER
ARM

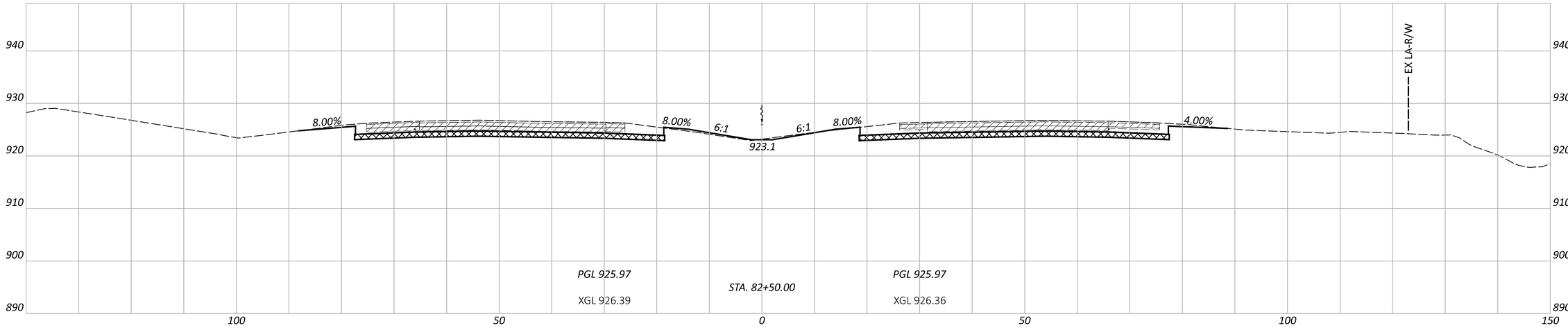
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.278 TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 82+50.00 TO STA 83+50.00

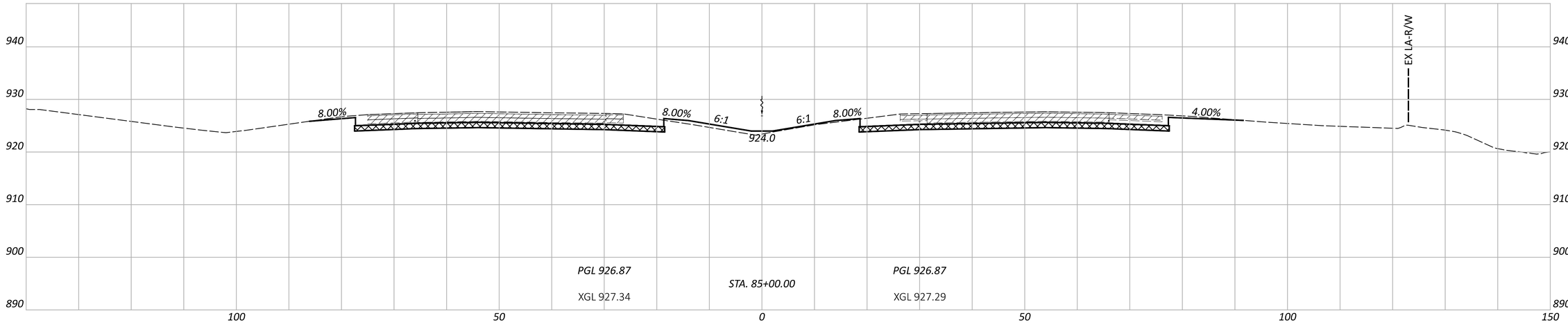
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

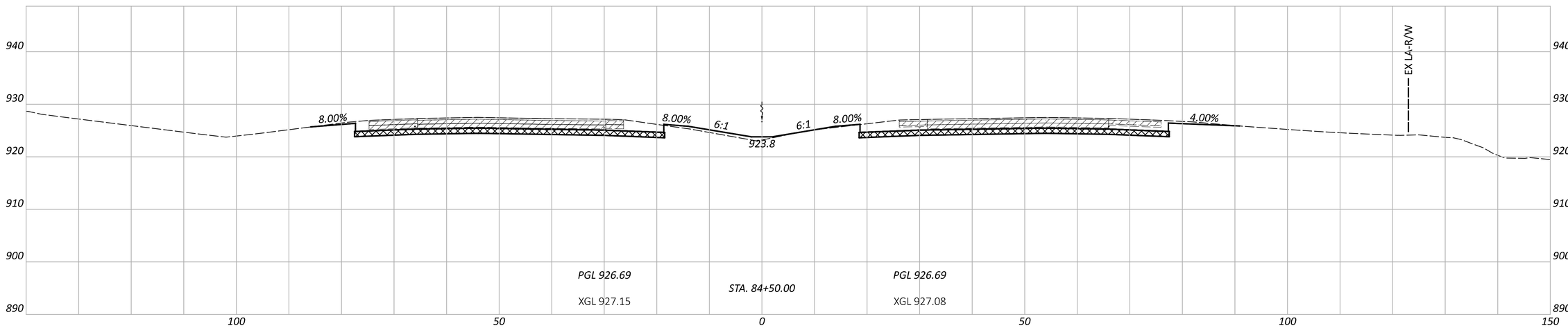
DESIGNER
ARM

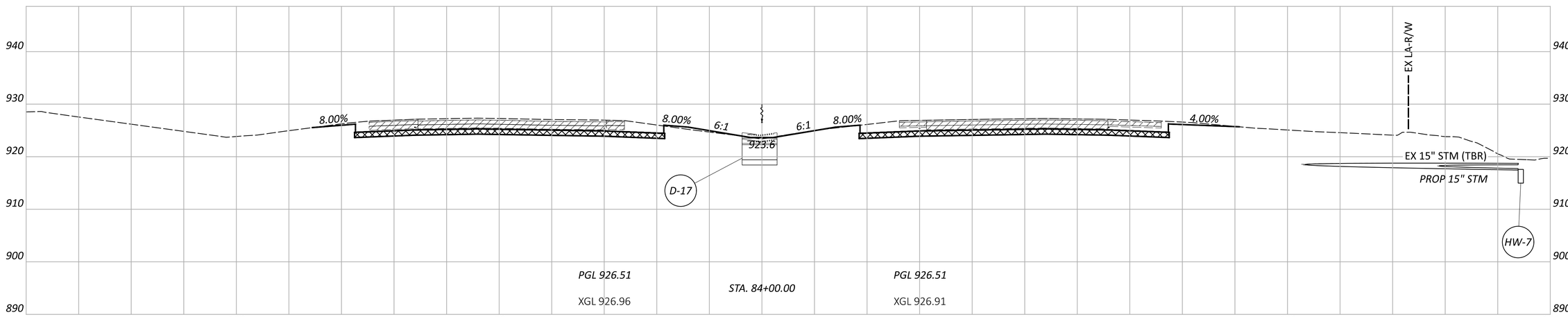
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.279 | TOTAL 577







CROSS SECTIONS - IR 70
STA 84+00.00 TO STA 85+00.00

FRA-70-00.00

MODEL: CLP_I070 - 84+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:23:20 PM USER: AMerrill
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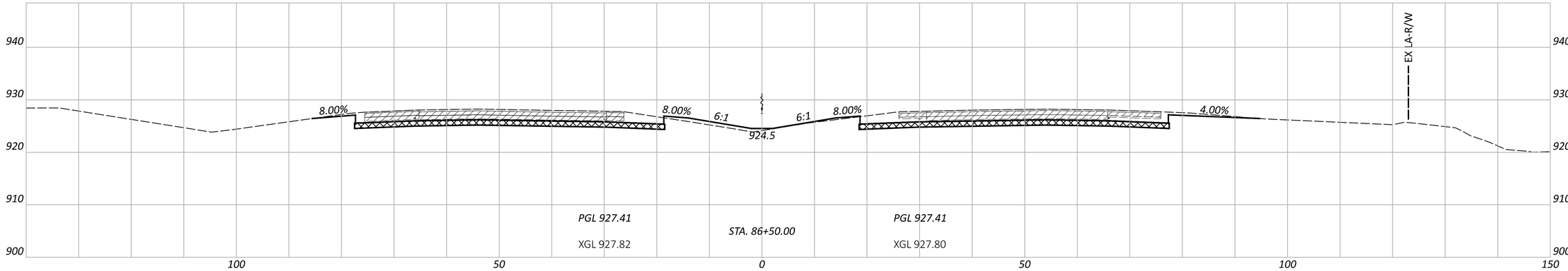
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

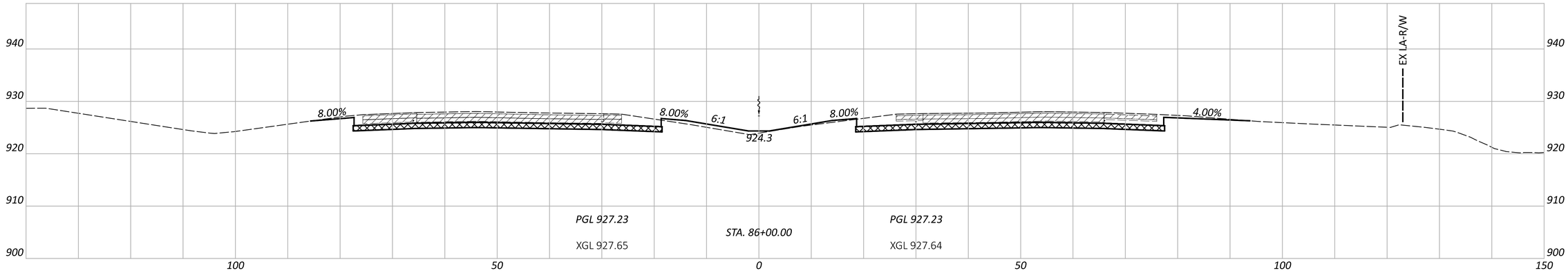
DESIGNER
ARM

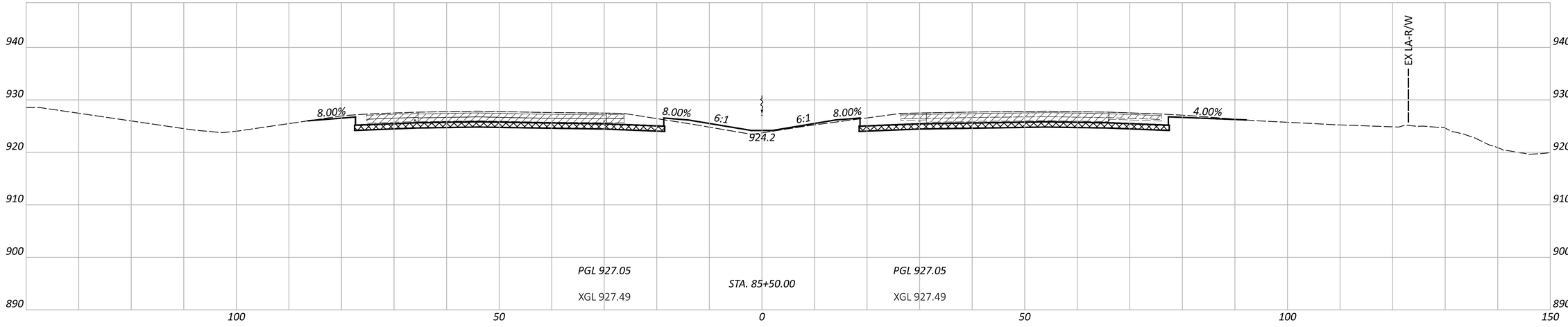
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.280 | TOTAL 577







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CROSS SECTIONS - IR 70
STA 85+50.00 TO STA 86+50.00

DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.281 TOTAL 577

CROSS SECTIONS - IR 70
STA 87+00.00 TO STA 88+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.282 TOTAL 577

FRA-70-00.00

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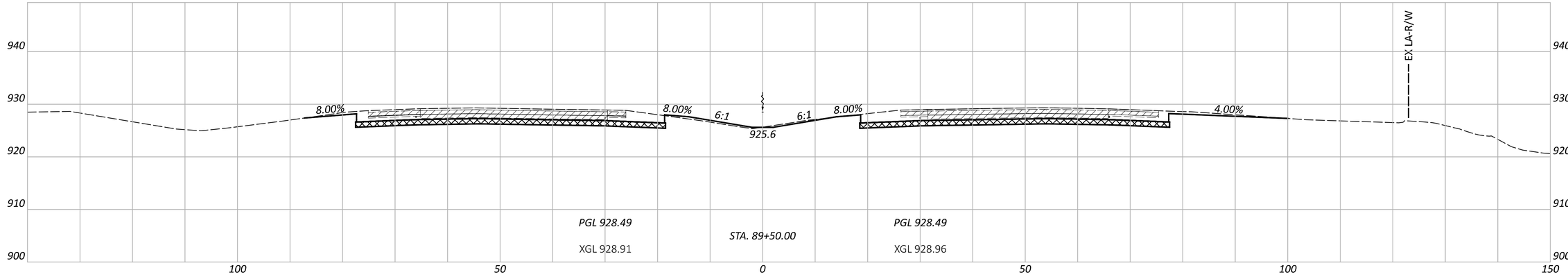

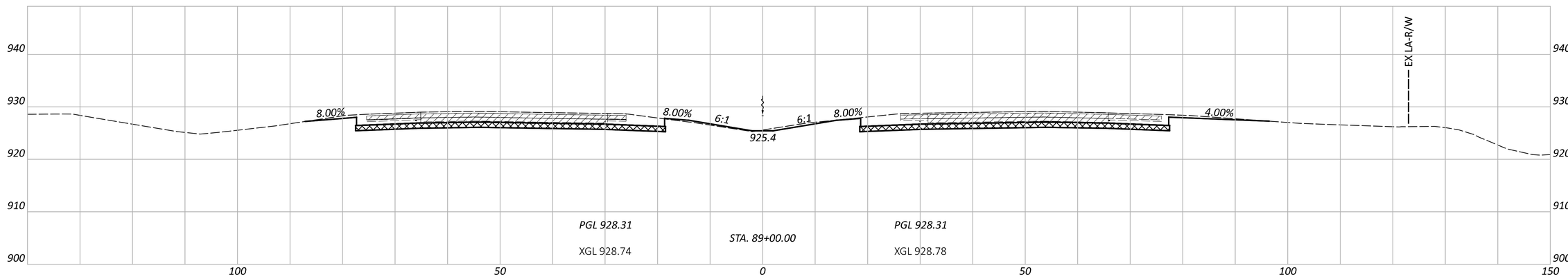

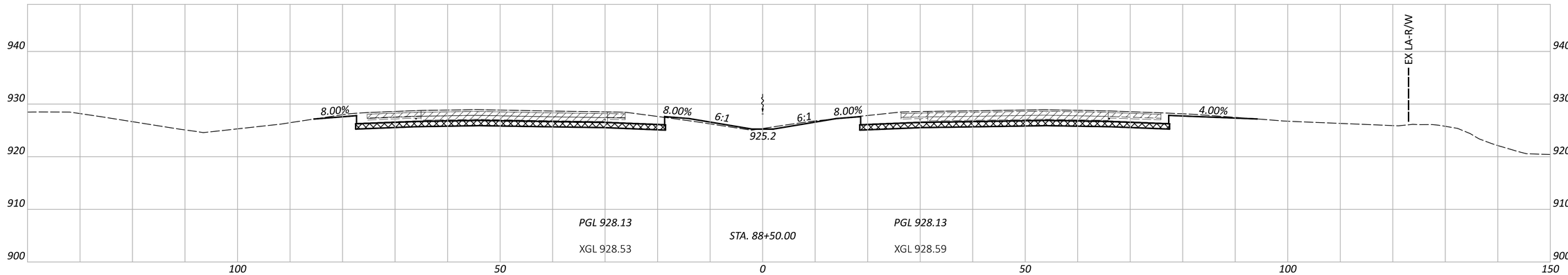

CROSS SECTIONS - IR 70
STA 88+50.00 TO STA 89+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.283 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 88+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:23:42 PM USER: AMerrill
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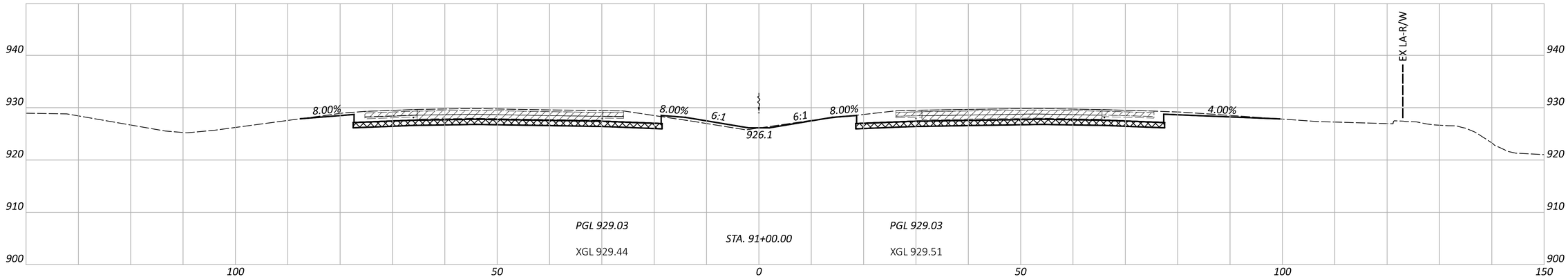

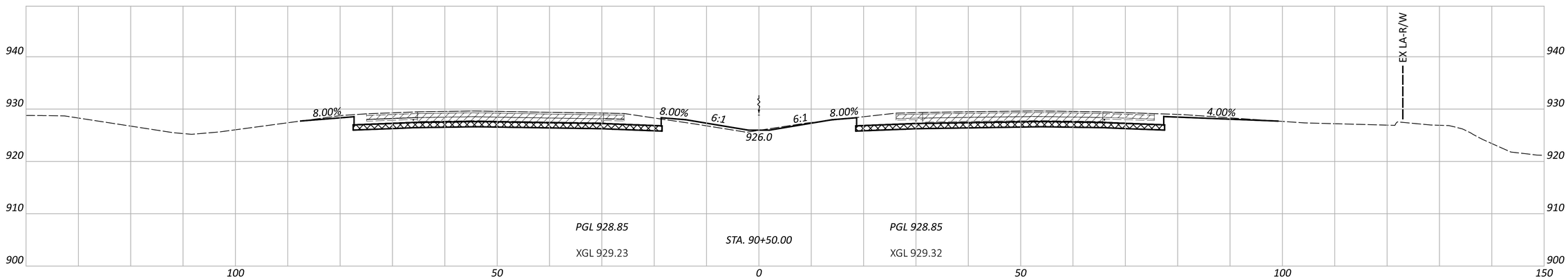

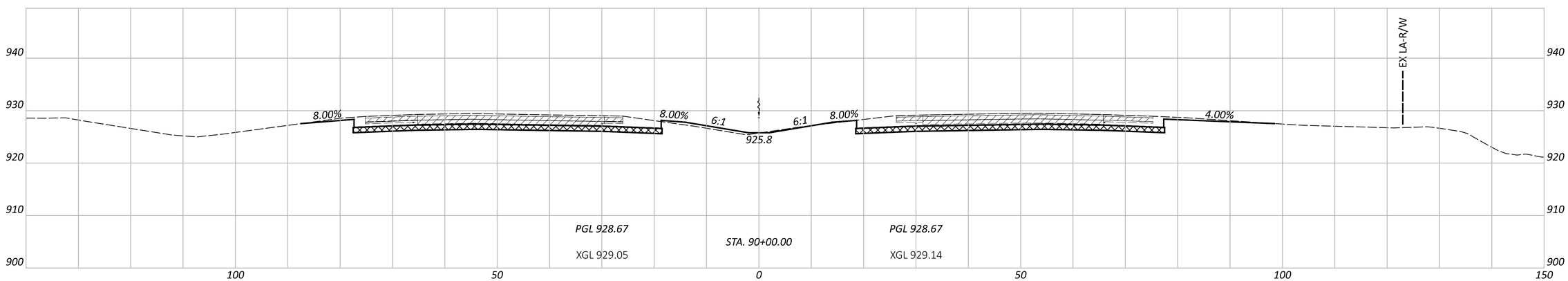

CROSS SECTIONS - IR 70
STA 90+00 TO STA 91+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.284 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 90+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:23:49 PM USER: AMerrill
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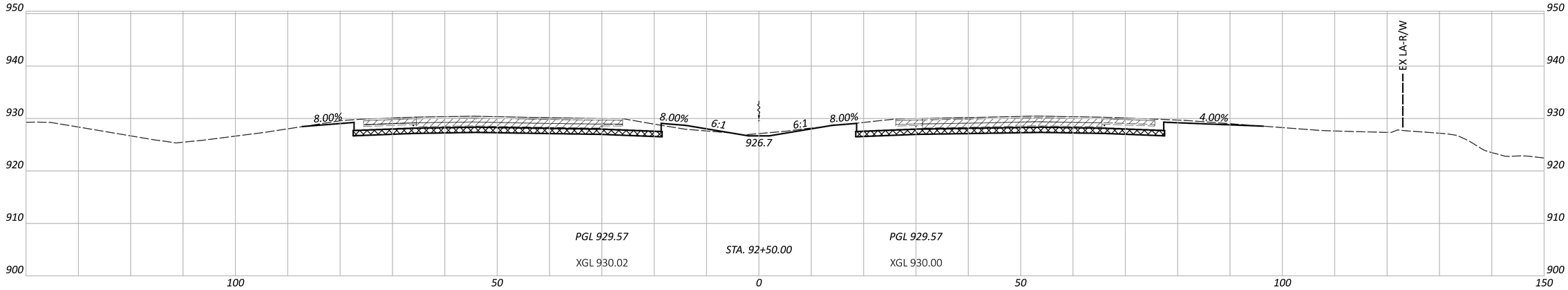

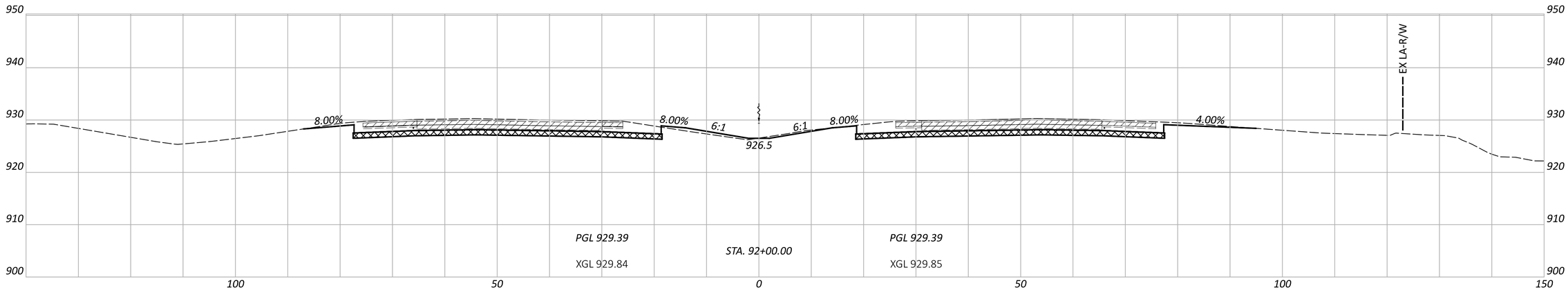

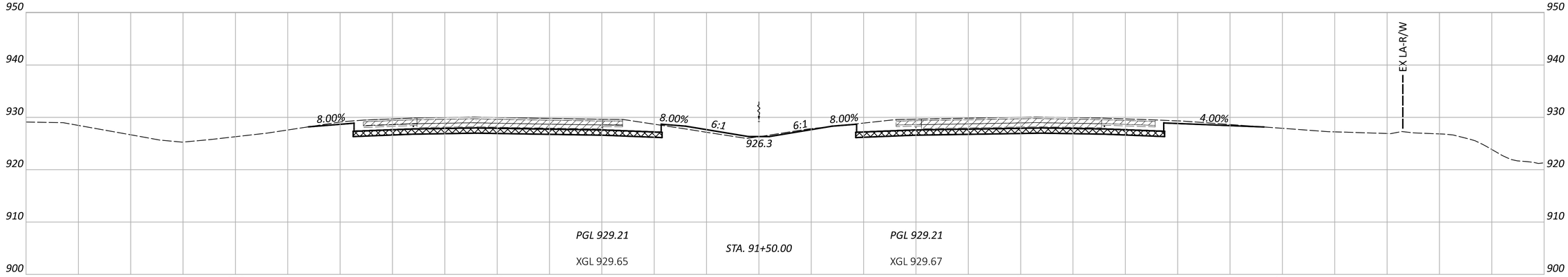

CROSS SECTIONS - IR 70
STA 91+50.00 TO STA 92+50.00

FRA-70-00.00

MODEL: CLP_I070 - 91+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:23:57 PM USER: AMerrill
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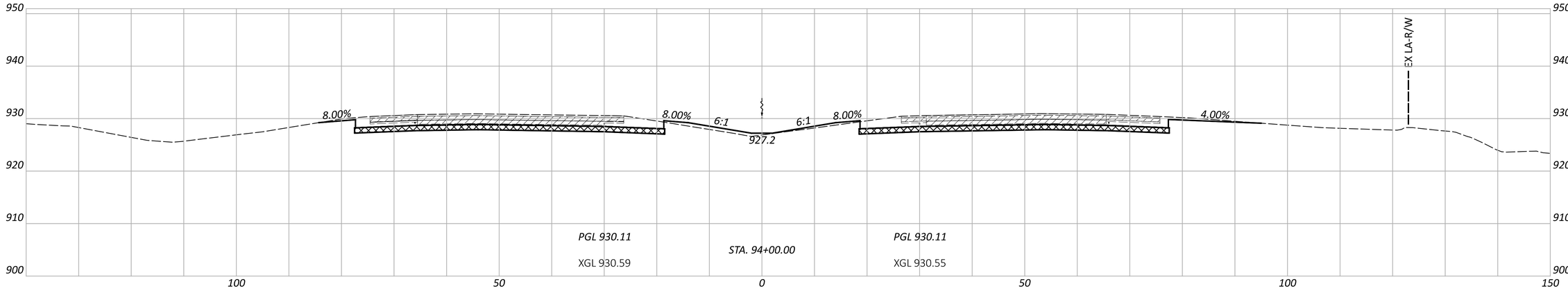
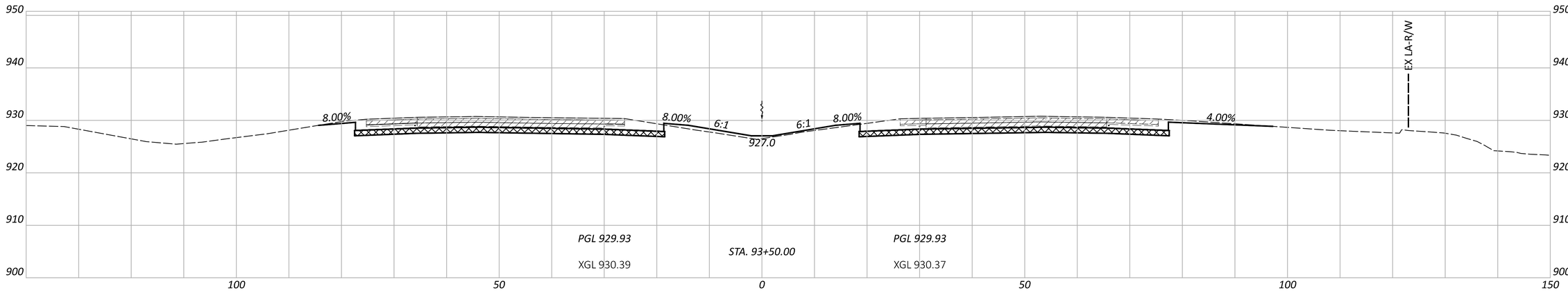
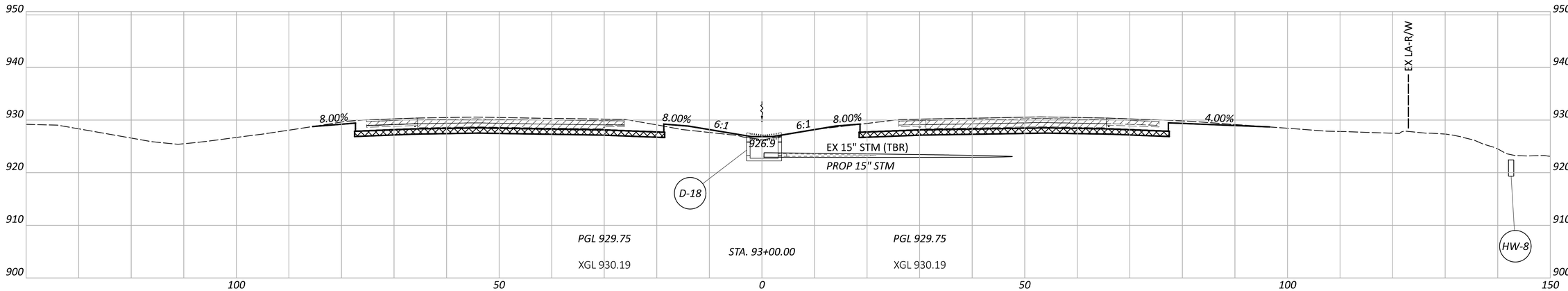
DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.285
TOTAL	577







CROSS SECTIONS - IR 70
STA 93+00.00 TO STA 94+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.286 TOTAL 577

FRA-70-00.00

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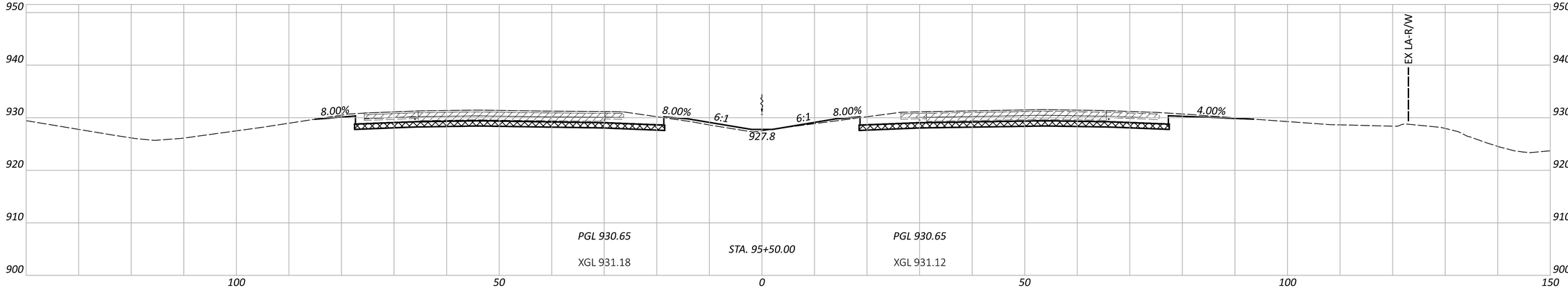

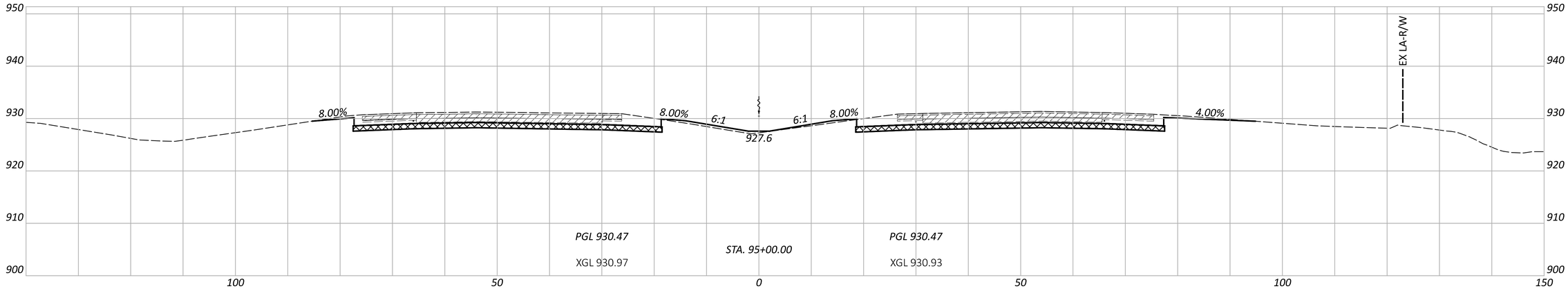

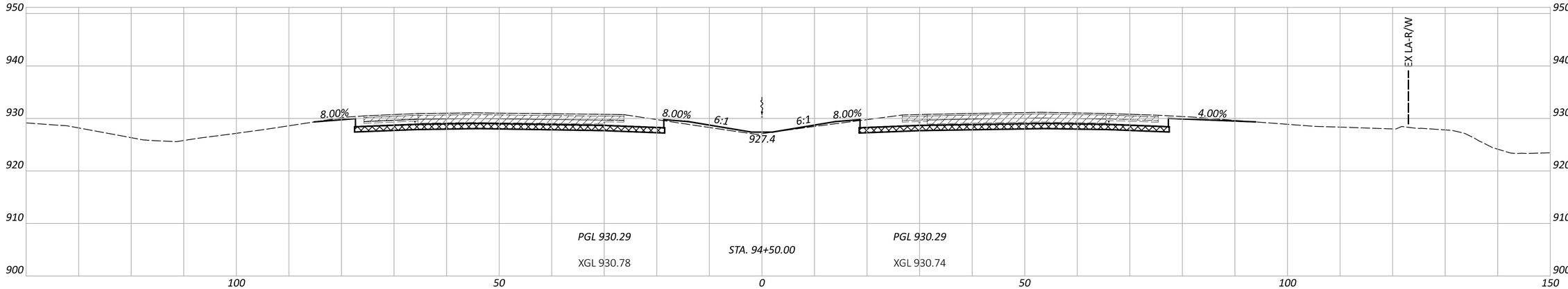

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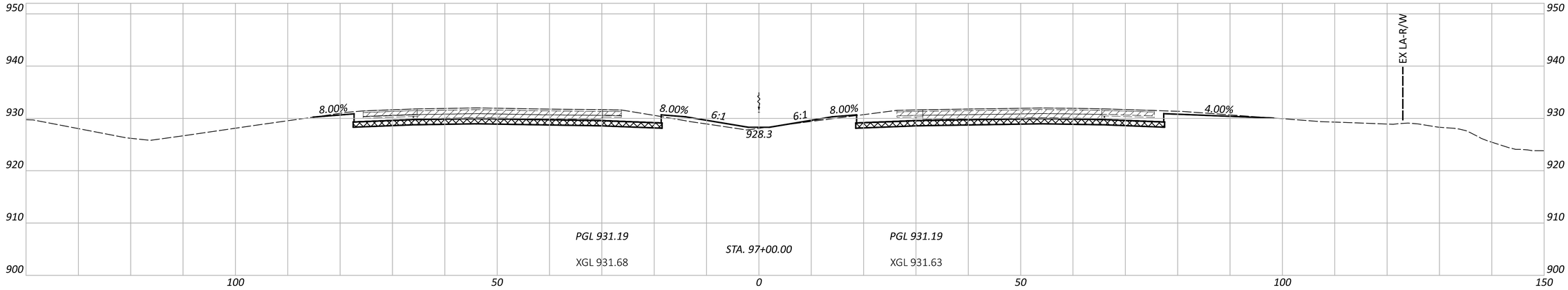
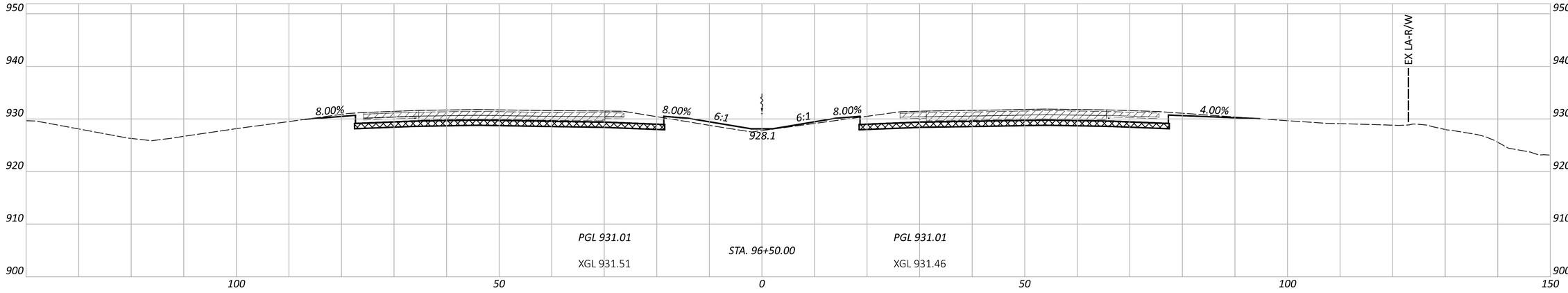
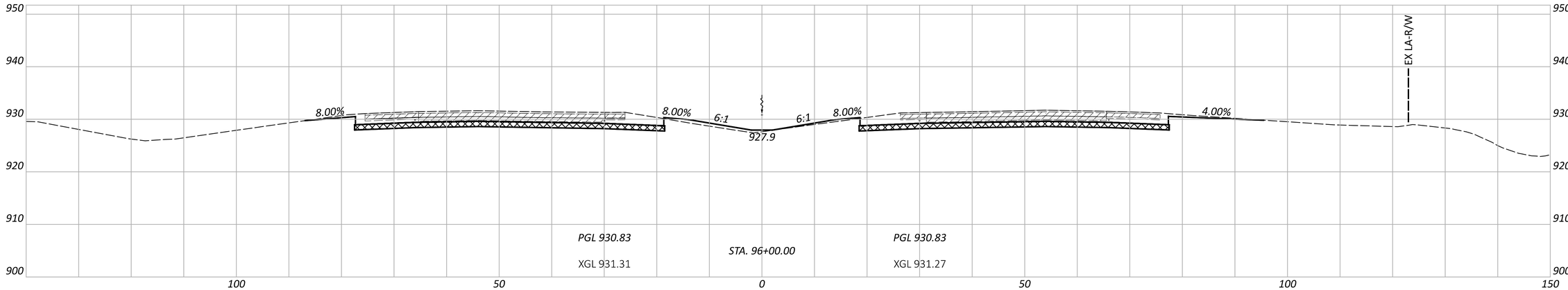
CROSS SECTIONS - IR 70
STA 94+50.00 TO STA 95+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.287
TOTAL	577







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CROSS SECTIONS - IR 70
STA 96+00.00 TO STA 97+00.00

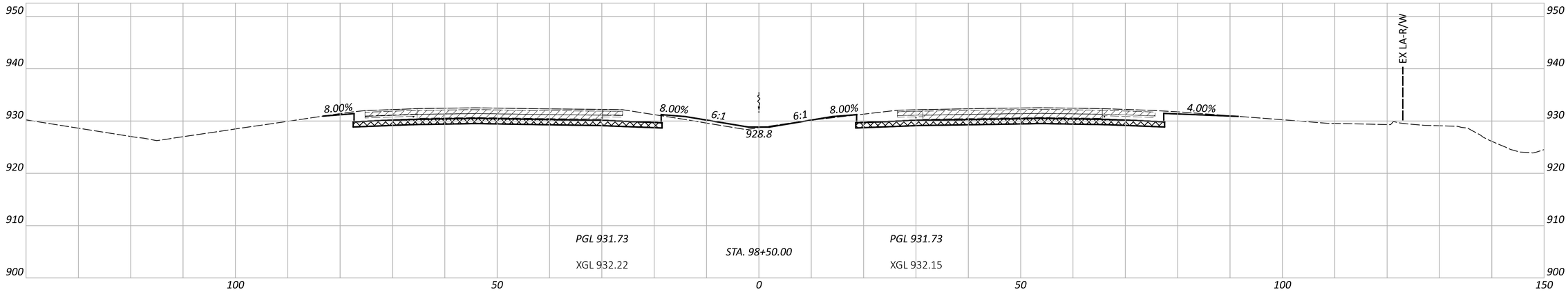
DESIGN AGENCY
STRUCTUREPOINT LLC

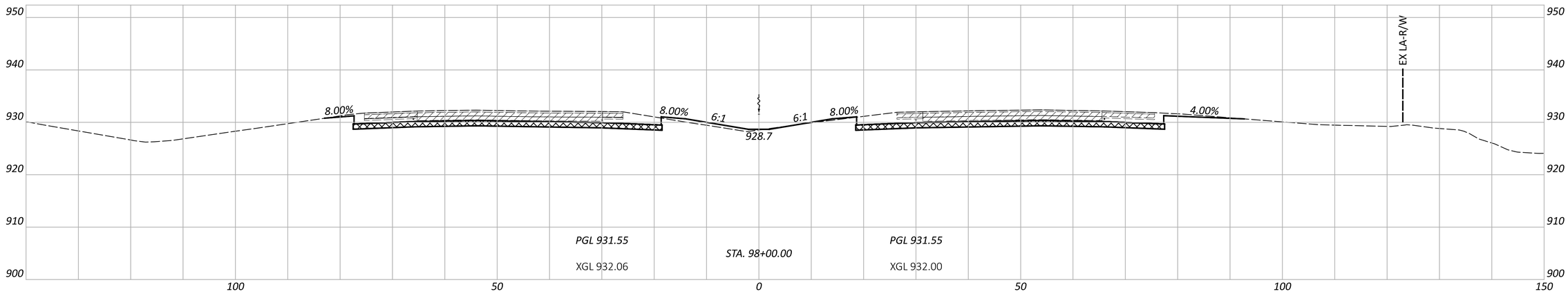
DESIGNER
ARM

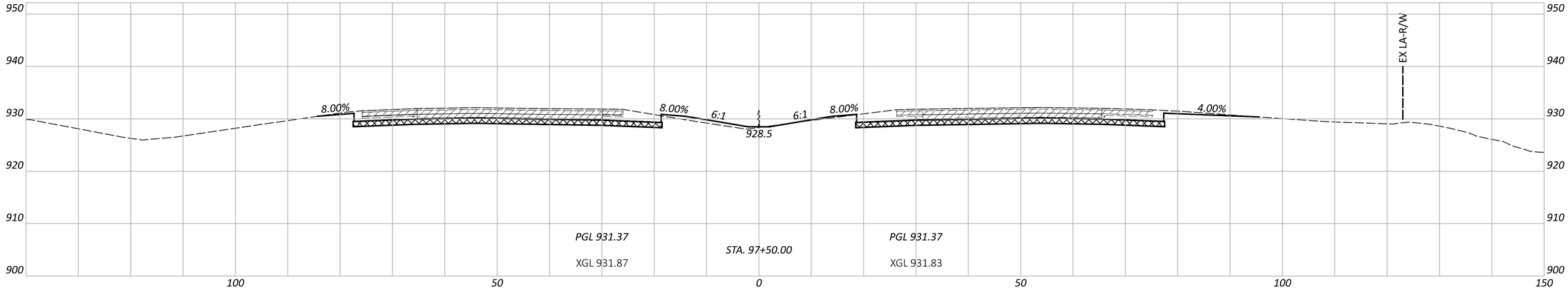
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.288 | TOTAL 577







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CROSS SECTIONS - IR 70
STA 97+50.00 TO STA 98+50.00

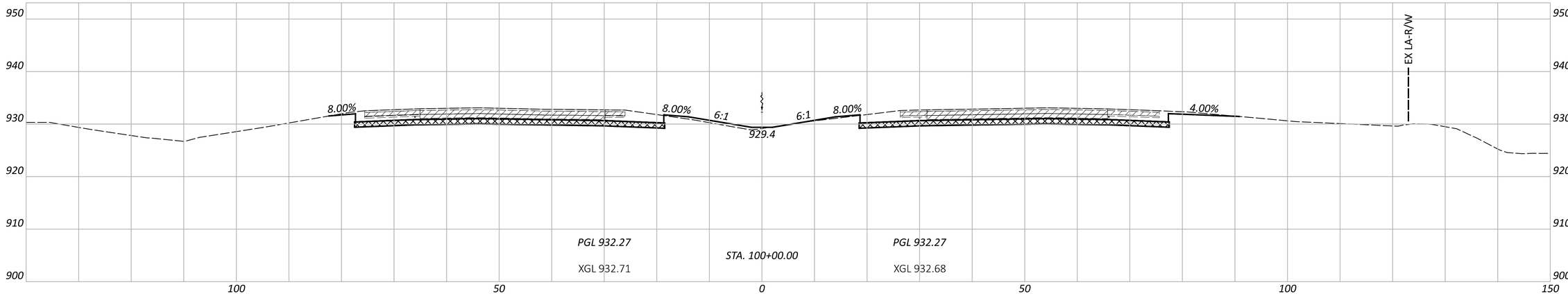
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

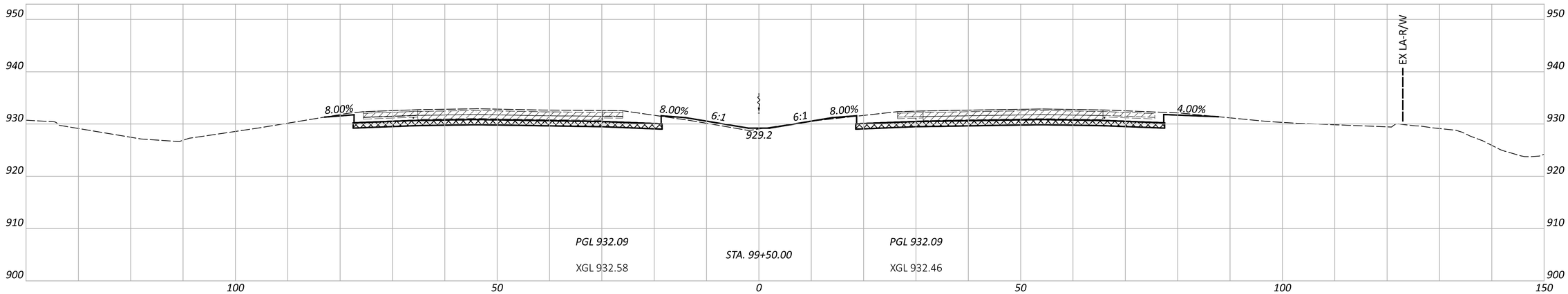
DESIGNER
ARM

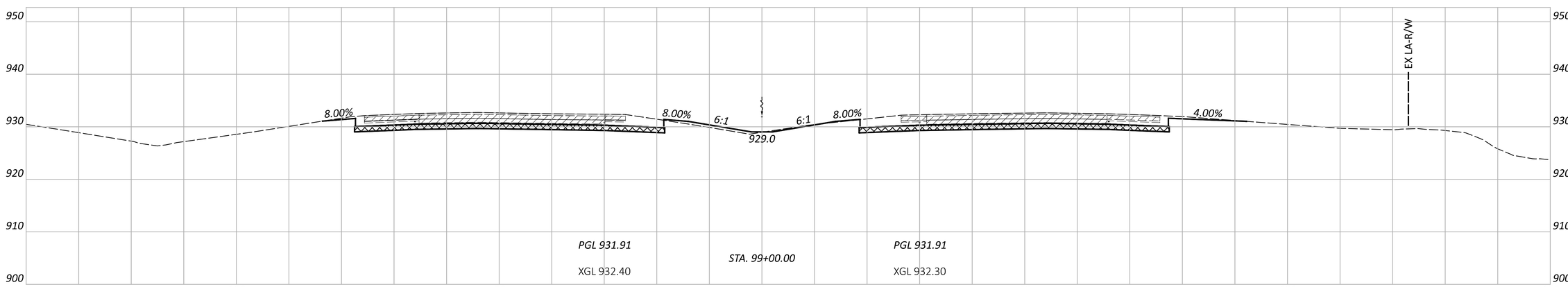
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.289 | TOTAL 577







CROSS SECTIONS - IR 70
STA 99+00.00 TO STA 100+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.290 TOTAL 577

FRA-70-00.00

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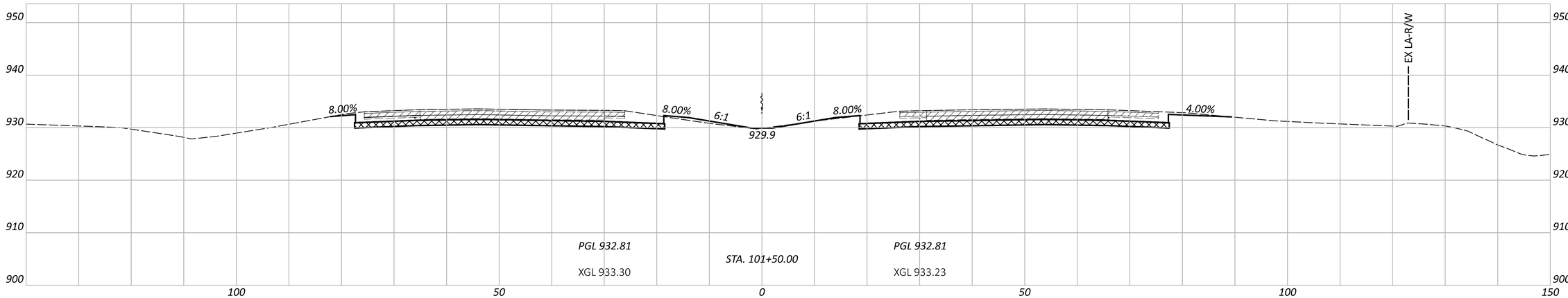

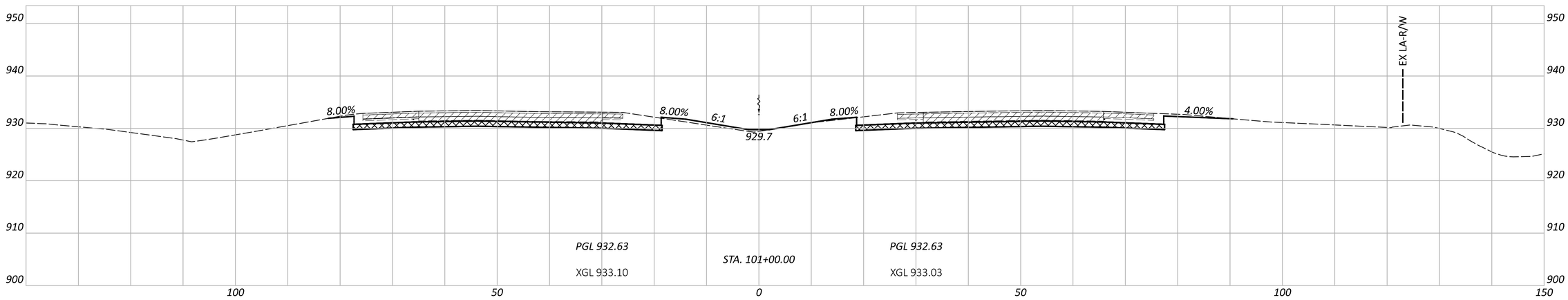

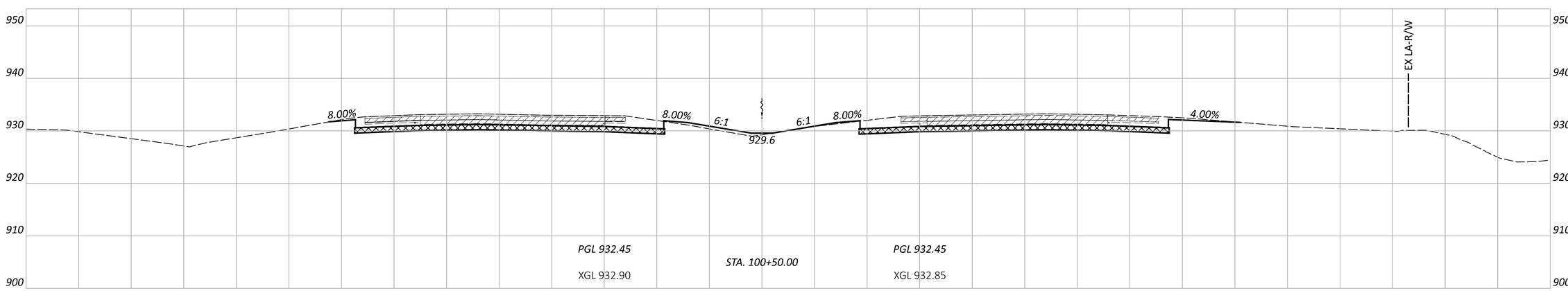

CROSS SECTIONS - IR 70
STA 100+50.00 TO STA 101+50.00

FRA-70-00.00

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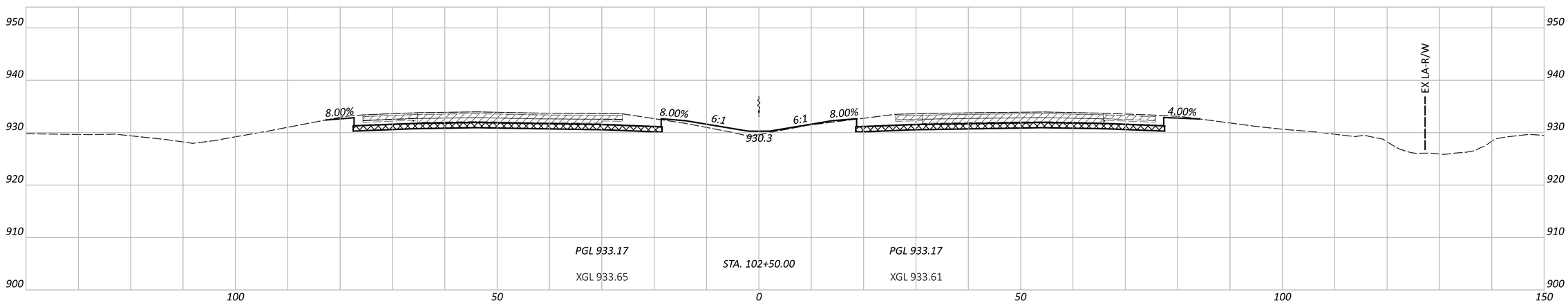
DESIGN AGENCY
STRUCTUREPOINT LLC

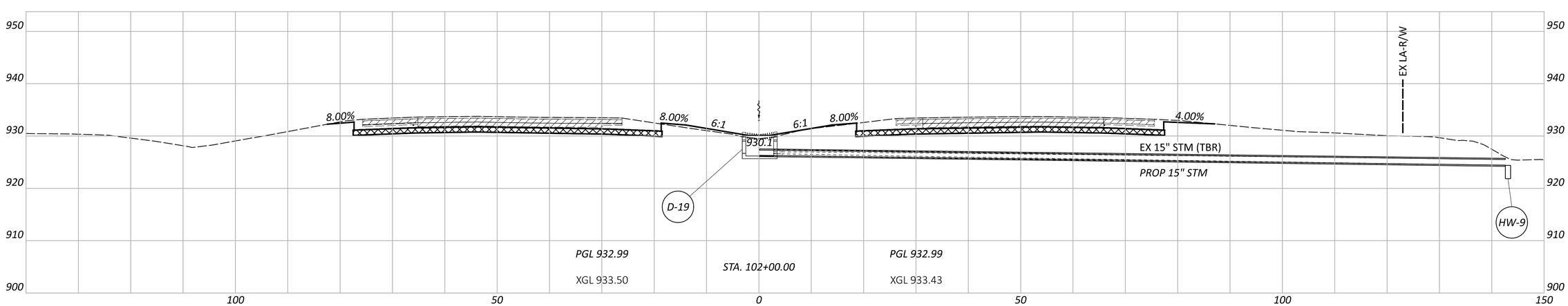
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.291 | TOTAL 577





CROSS SECTIONS - IR 70
STA 102+00.00 TO STA 102+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.292 TOTAL 577

FRA-70-00.00

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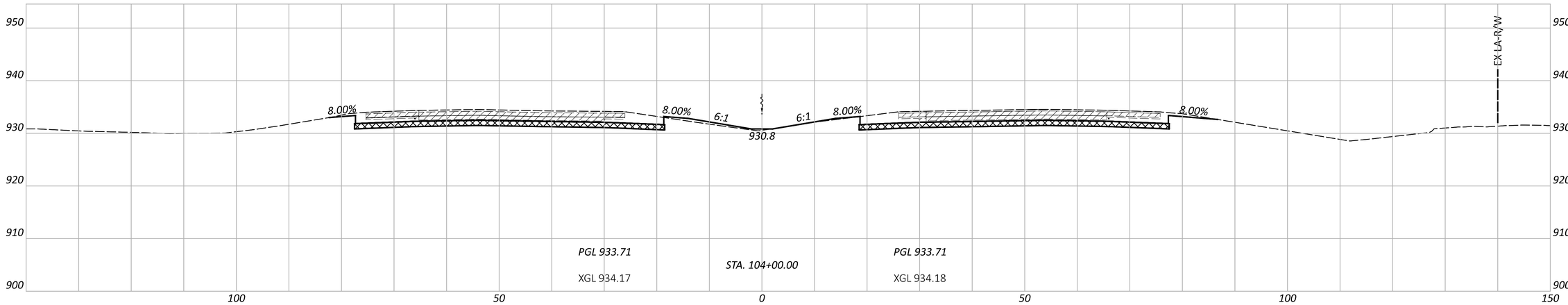

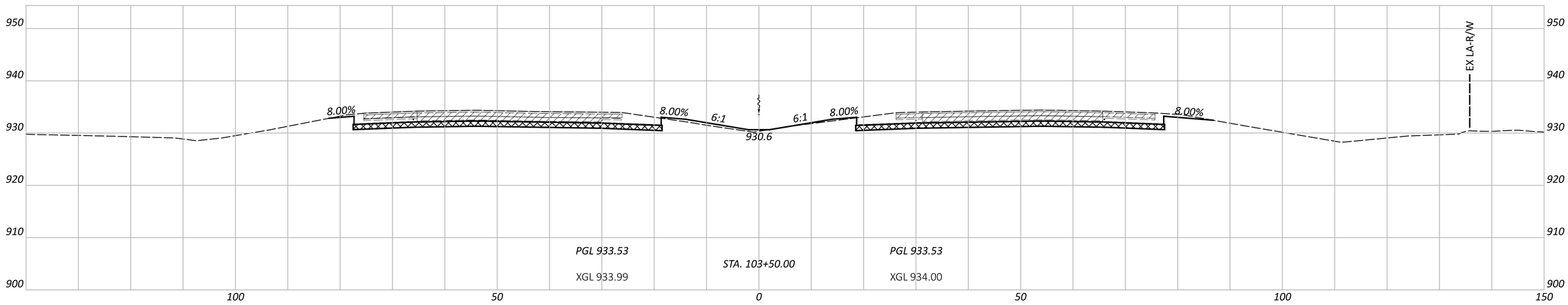

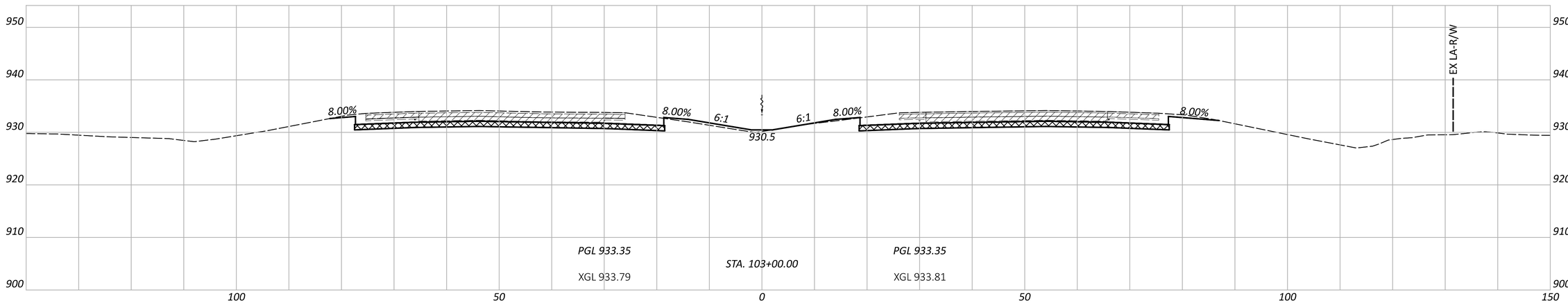

CROSS SECTIONS - IR 70
STA 103+00.00 TO STA 104+00.00

FRA-70-00.00

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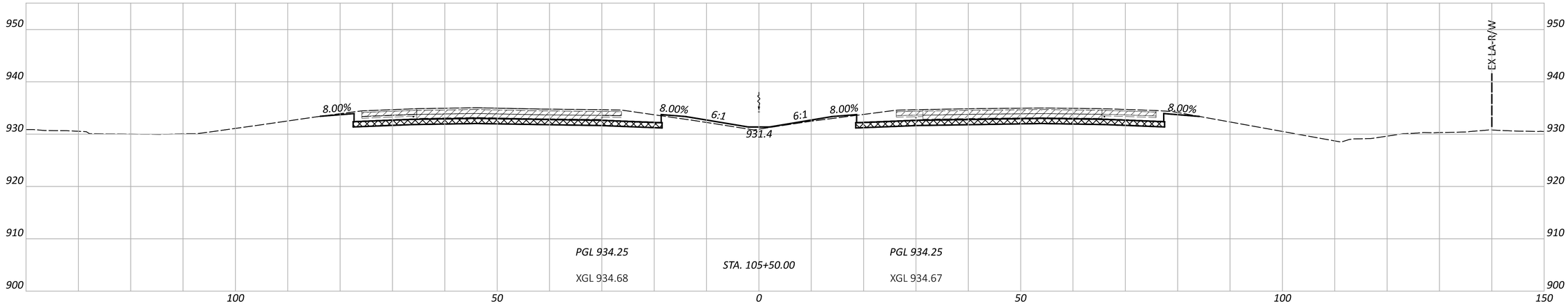
DESIGN AGENCY
STRUCTUREPOINT LLC

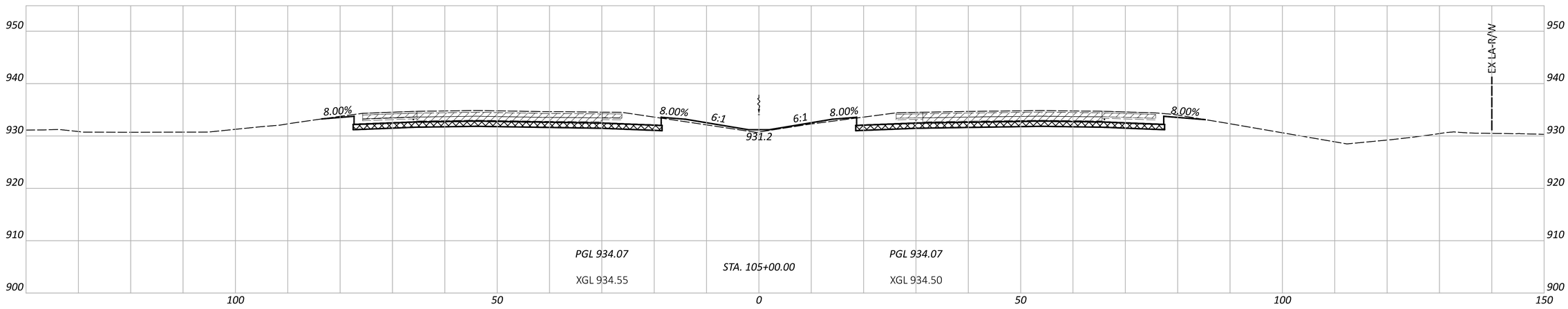
DESIGNER
ARM

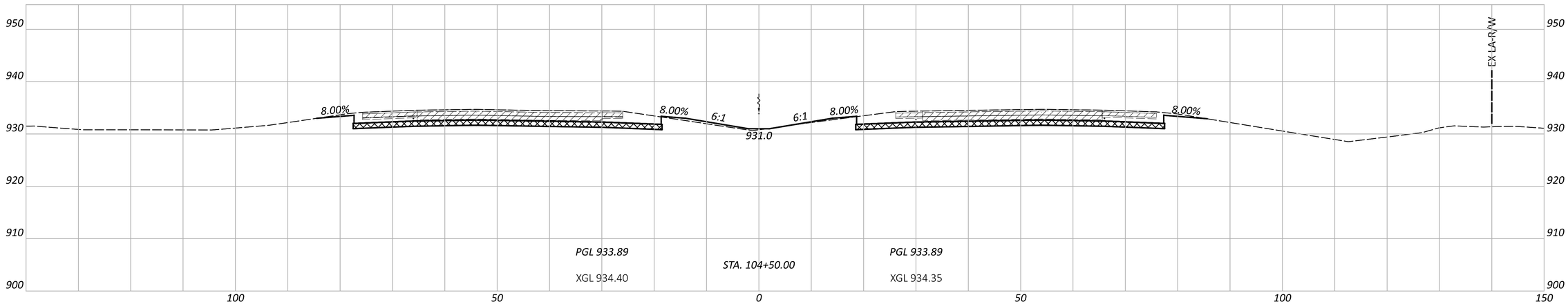
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.293 TOTAL 577







CROSS SECTIONS - IR 70
STA 104+50.00 TO STA 105+50.00

FRA-70-00.00

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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
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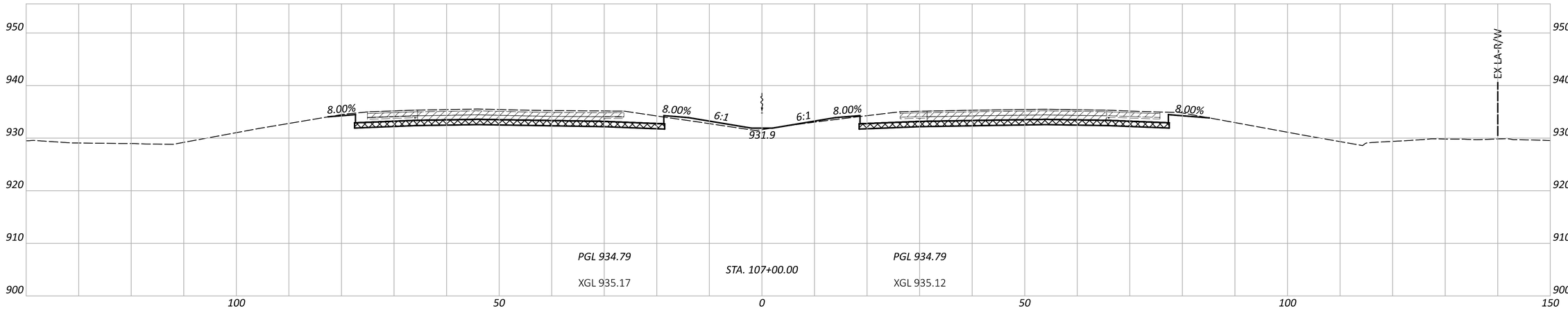
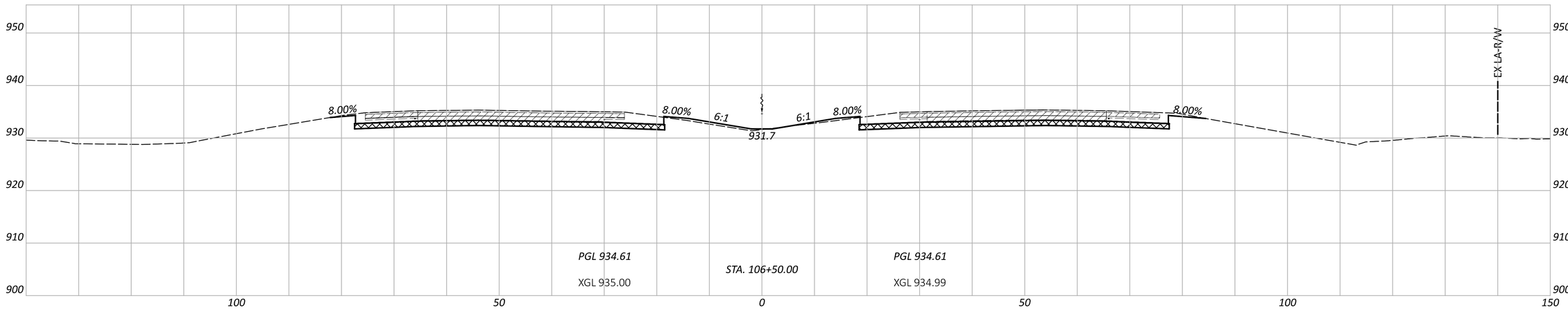
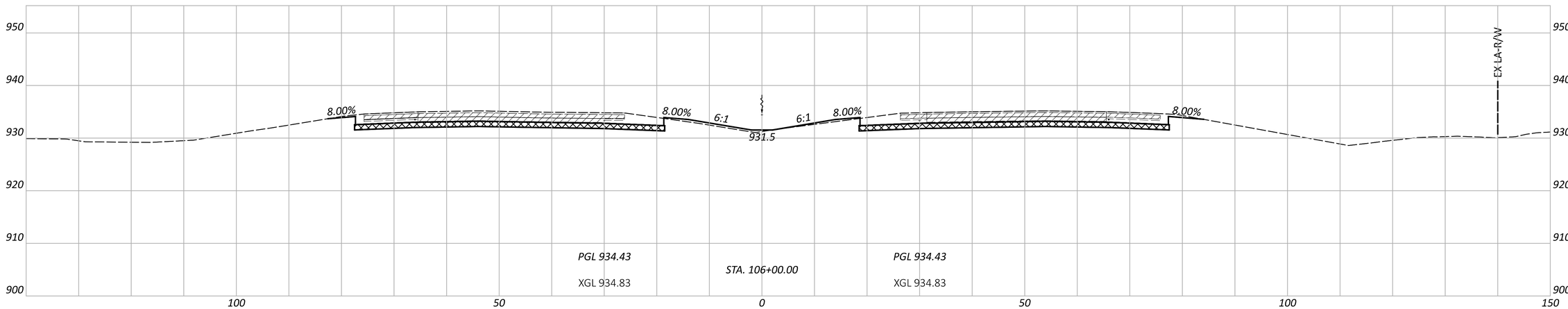
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.294 TOTAL 577







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FRA-70-00.00

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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
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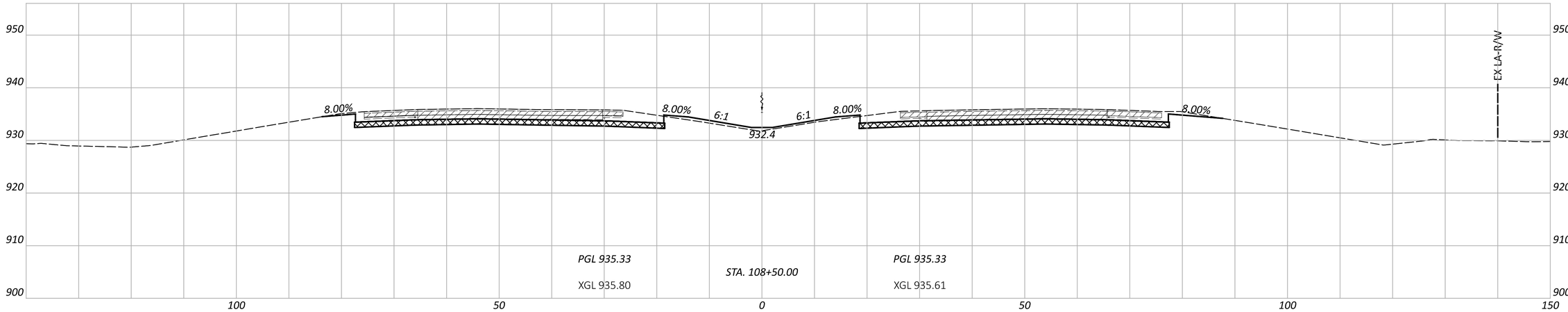
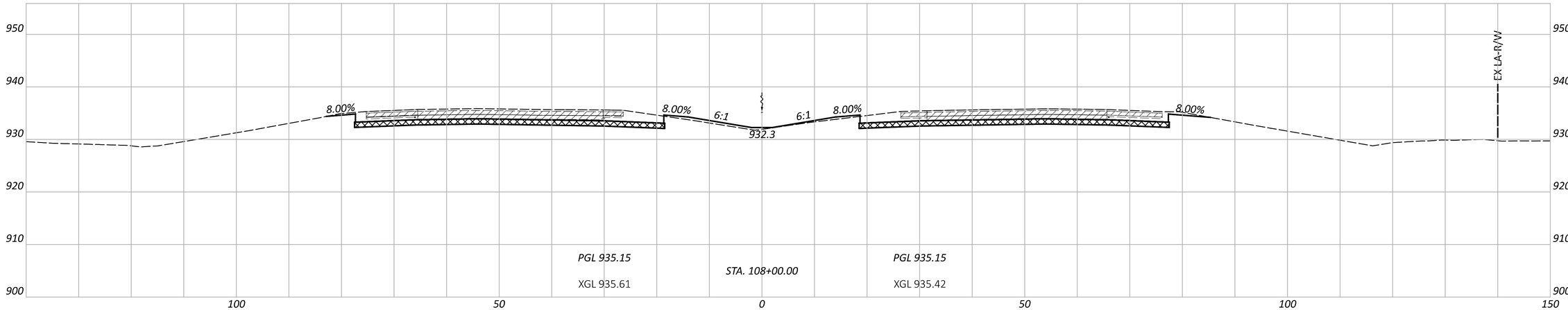
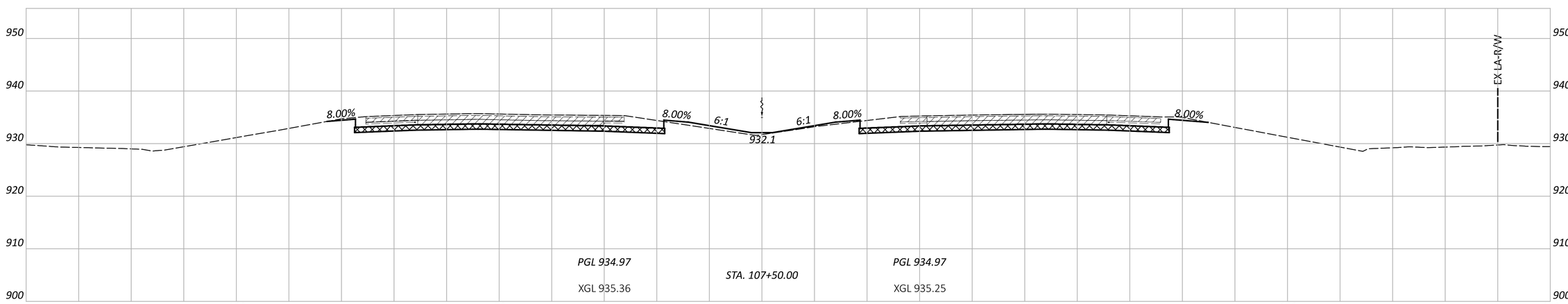
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.295 TOTAL 577







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FRA-70-00.00

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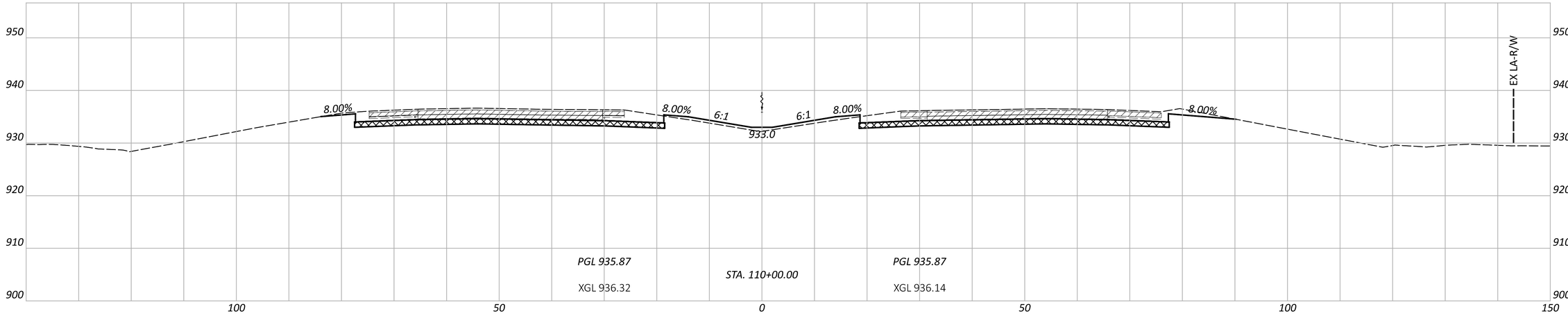
DESIGN AGENCY
STRUCTUREPOINT LLC

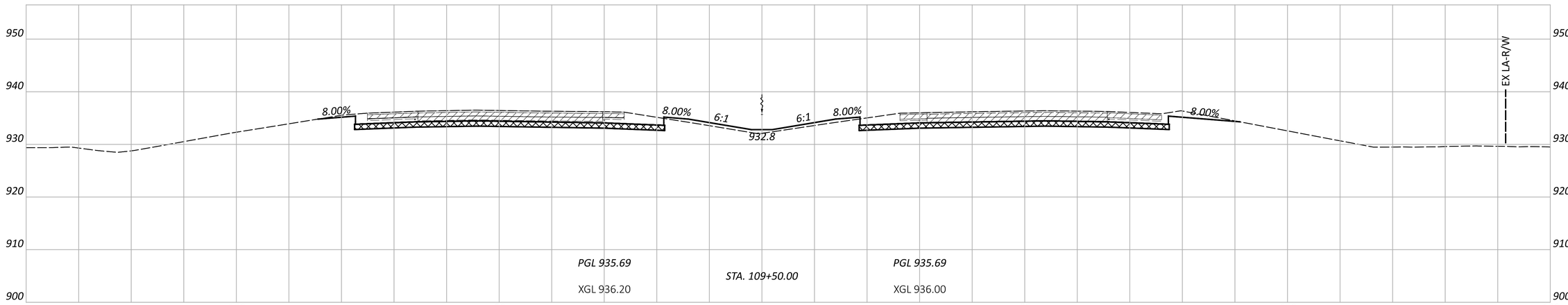
DESIGNER
ARM

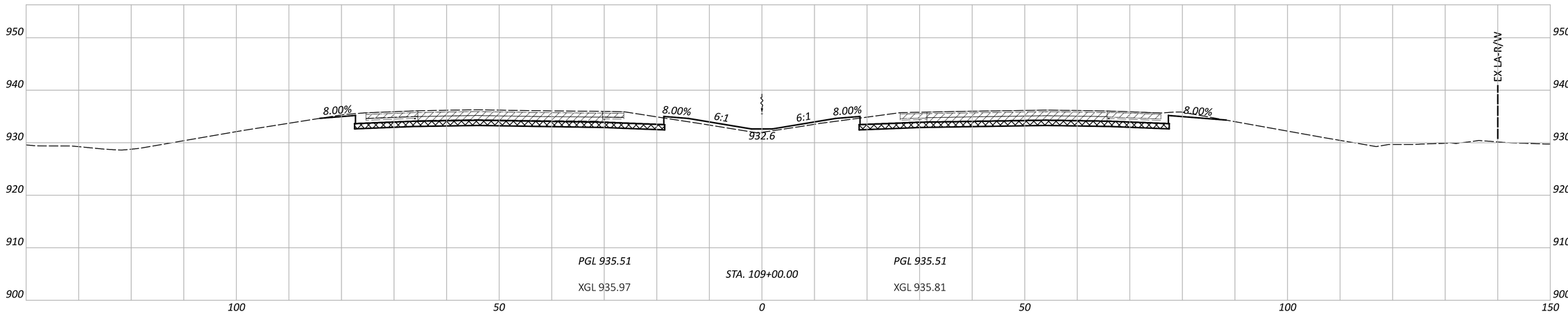
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.296 TOTAL 577







CROSS SECTIONS - IR 70
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FRA-70-00.00

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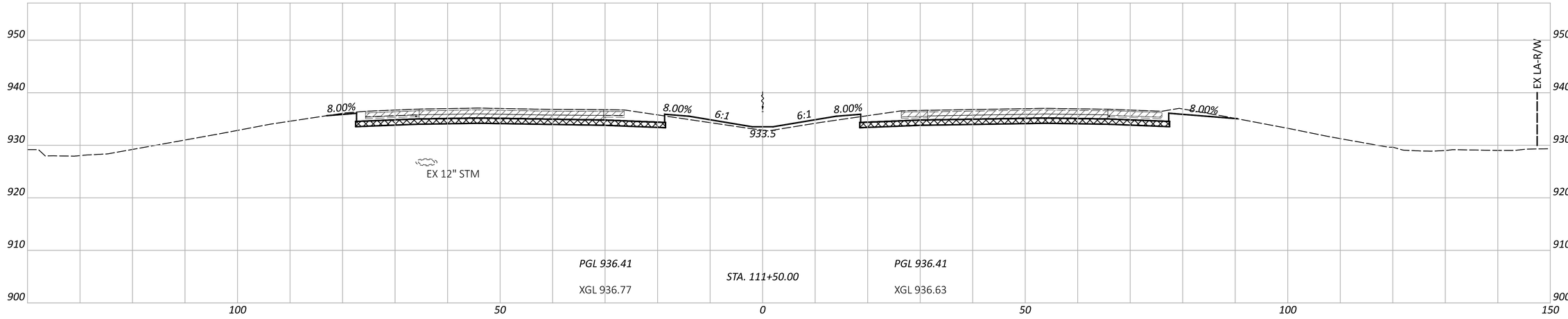
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

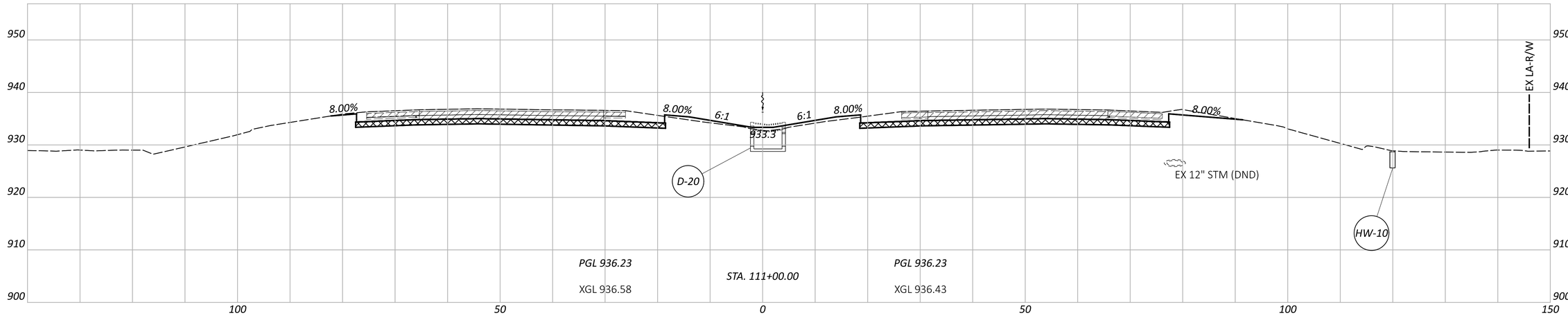
DESIGNER
ARM

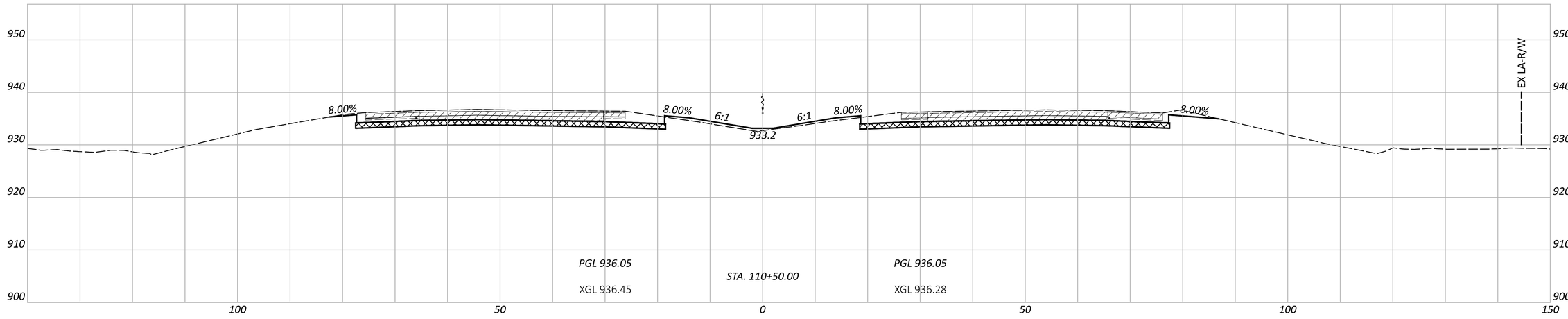
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.297 TOTAL 577







CROSS SECTIONS - IR 70
STA 110+50.00 TO STA 111+50.00

FRA-70-00.00

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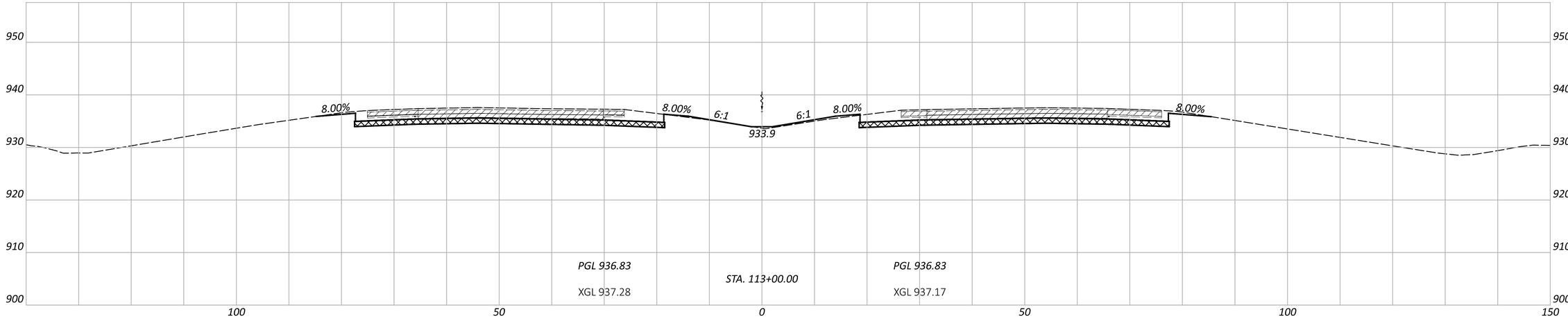
DESIGN AGENCY
STRUCTUREPOINT LLC

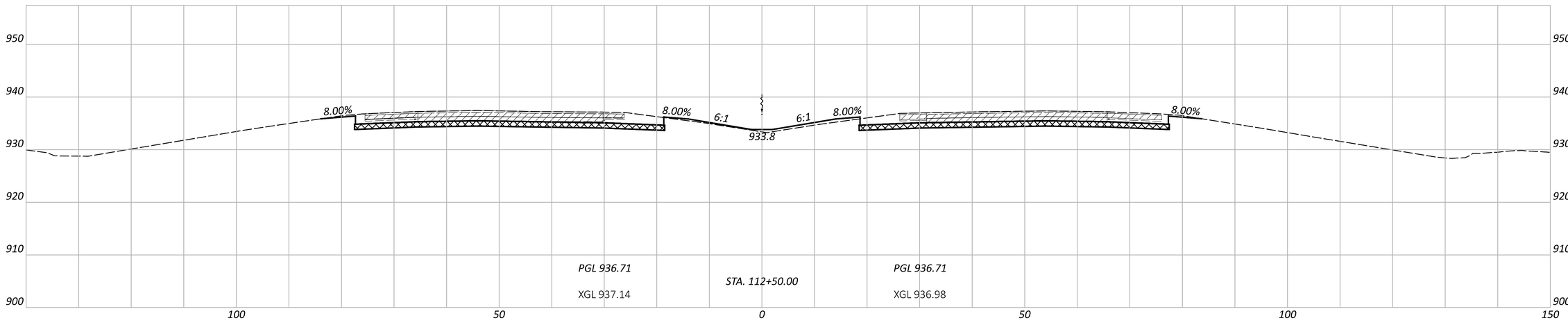
DESIGNER
ARM

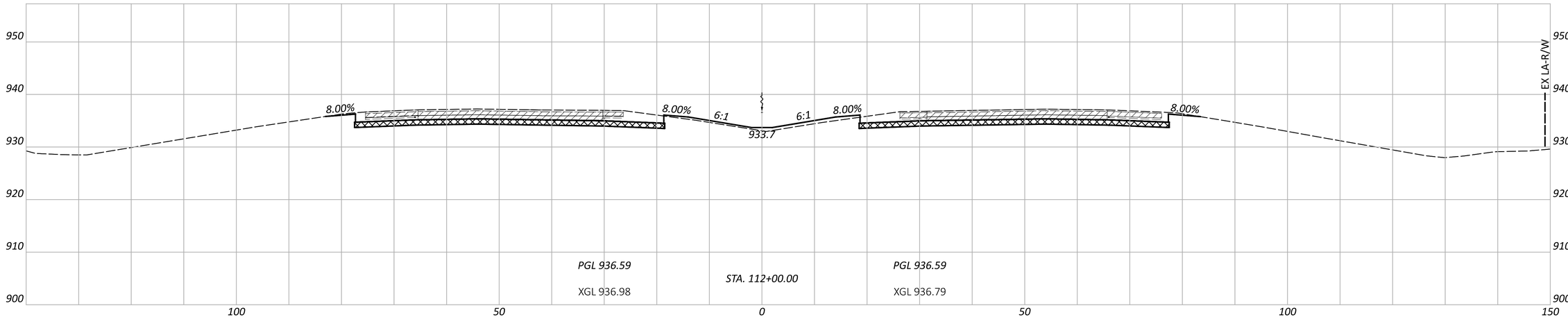
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.298 | TOTAL 577







CROSS SECTIONS - IR 70
STA 112+00.00 TO STA 113+00.00

DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.299 | TOTAL 577

FRA-70-00.00

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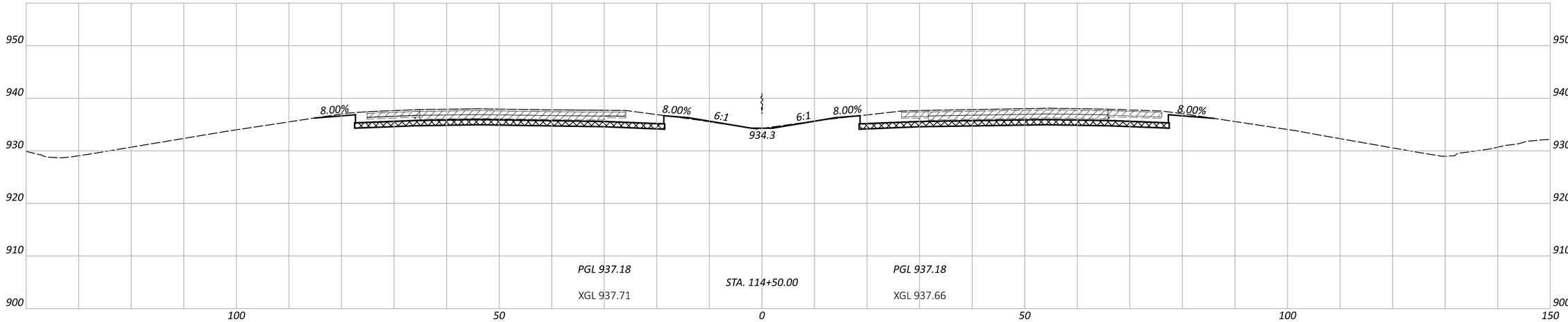

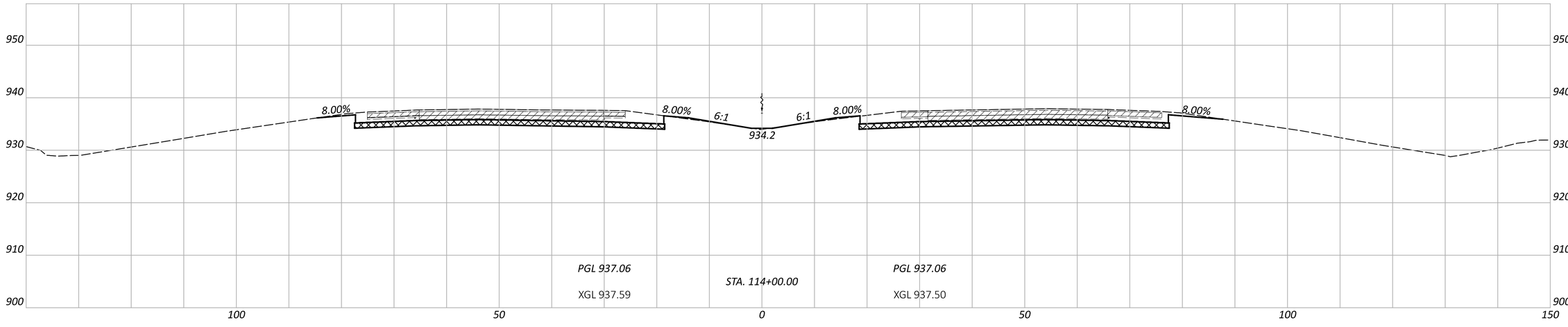

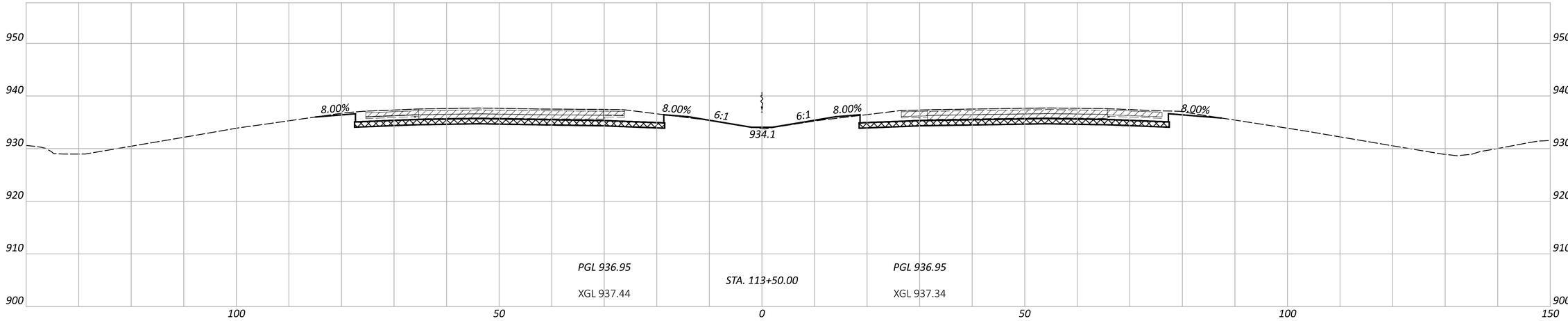

CROSS SECTIONS - IR 70
STA 113+50.00 TO STA 114+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.300 | TOTAL 577

FRA-70-00.00

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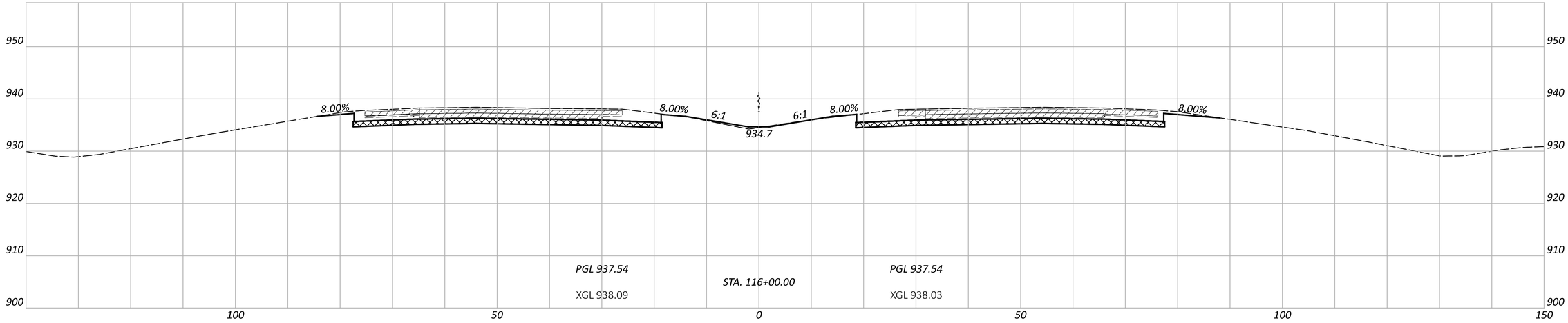

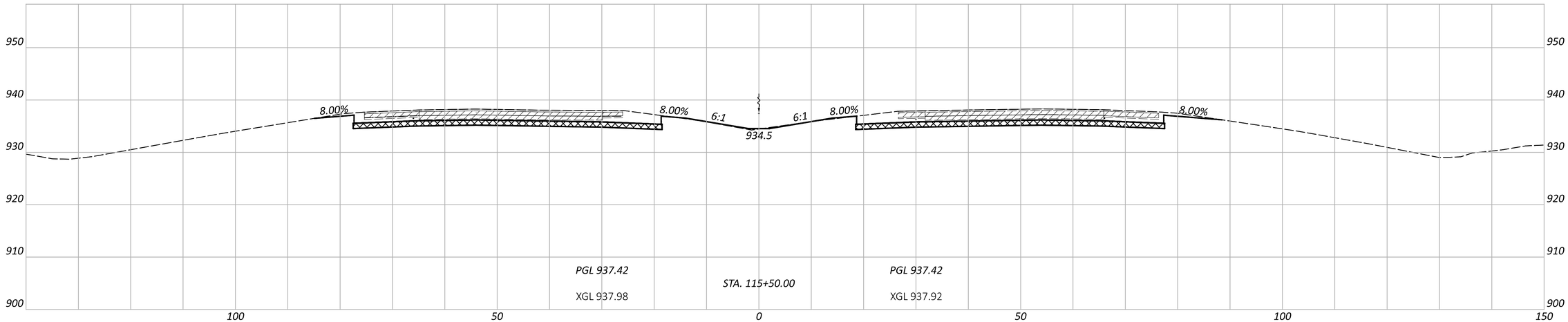

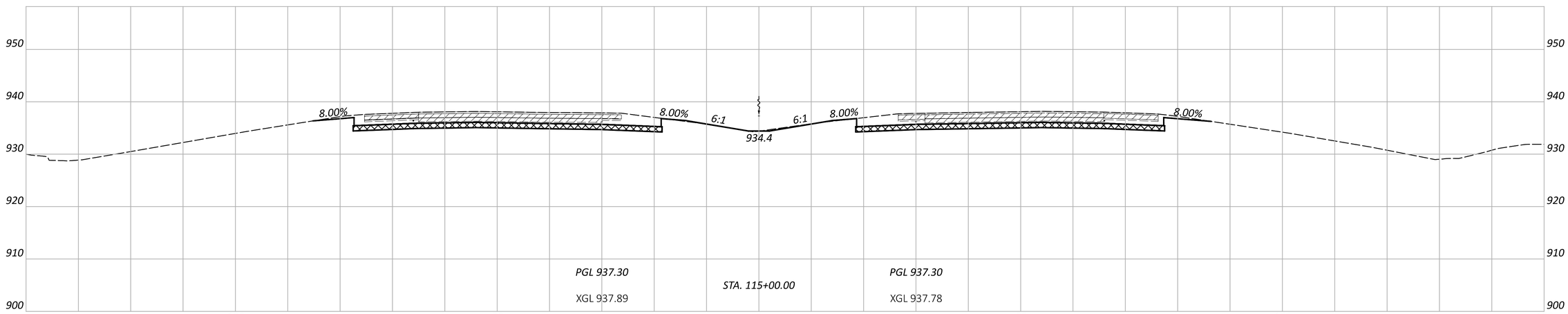

CROSS SECTIONS - IR 70
STA 115+00.00 TO STA 116+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.301 TOTAL 577

FRA-70-00.00

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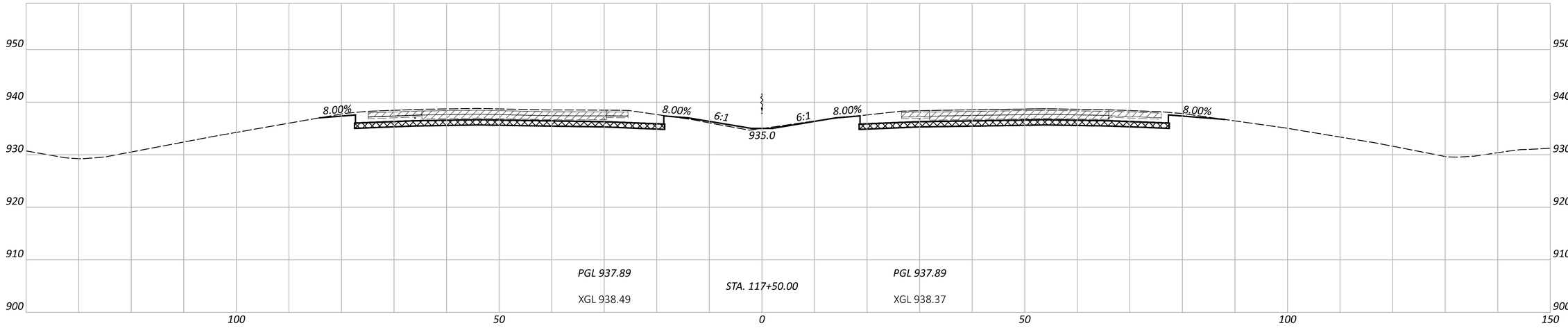

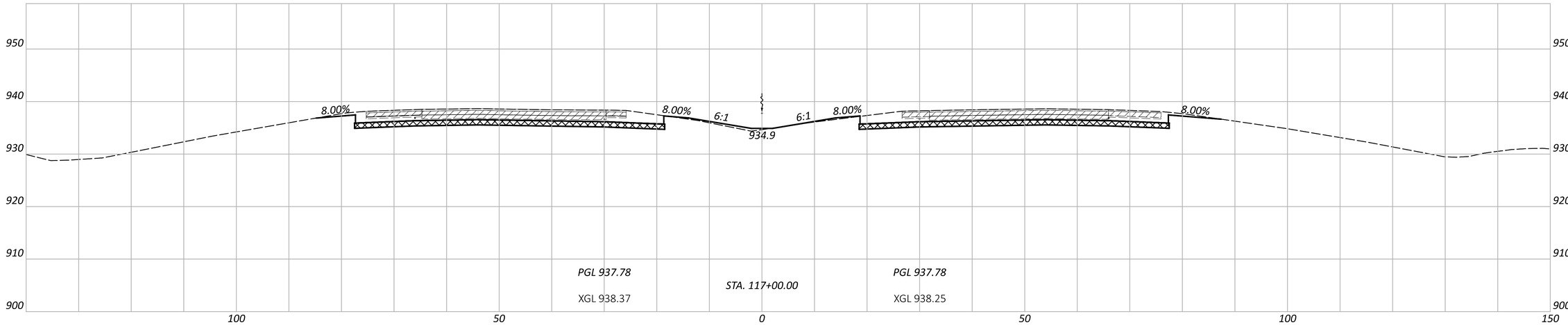

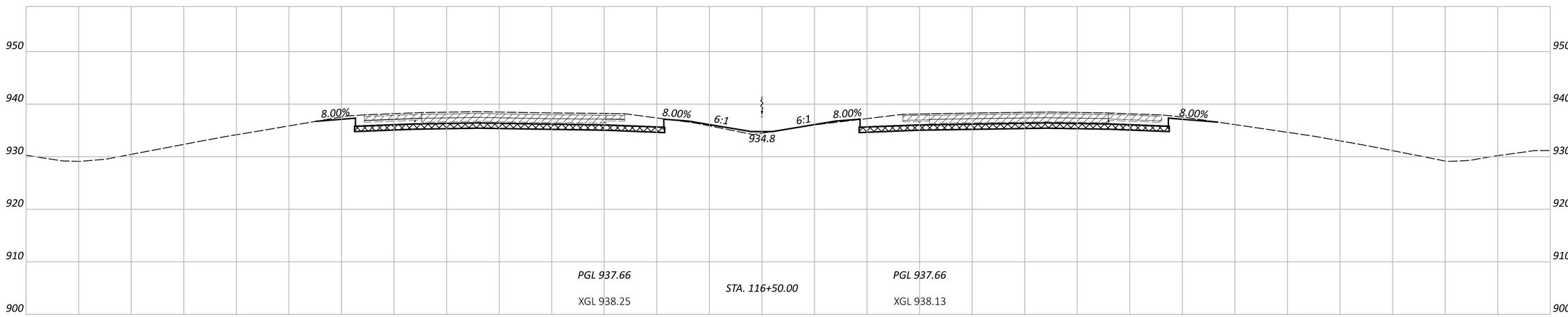

CROSS SECTIONS - IR 70
STA 116+50.00 TO STA 117+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.302 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 116+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:26:05 PM USER: AMerrill
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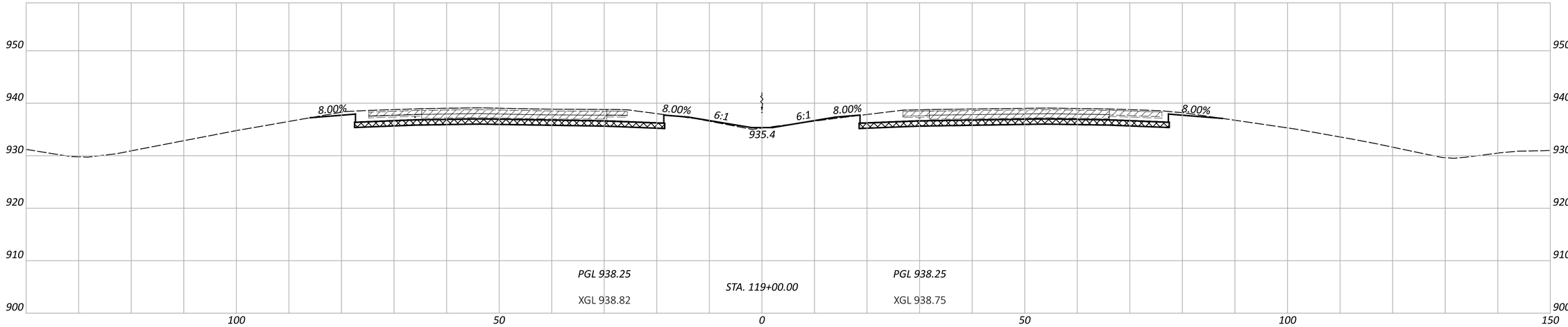

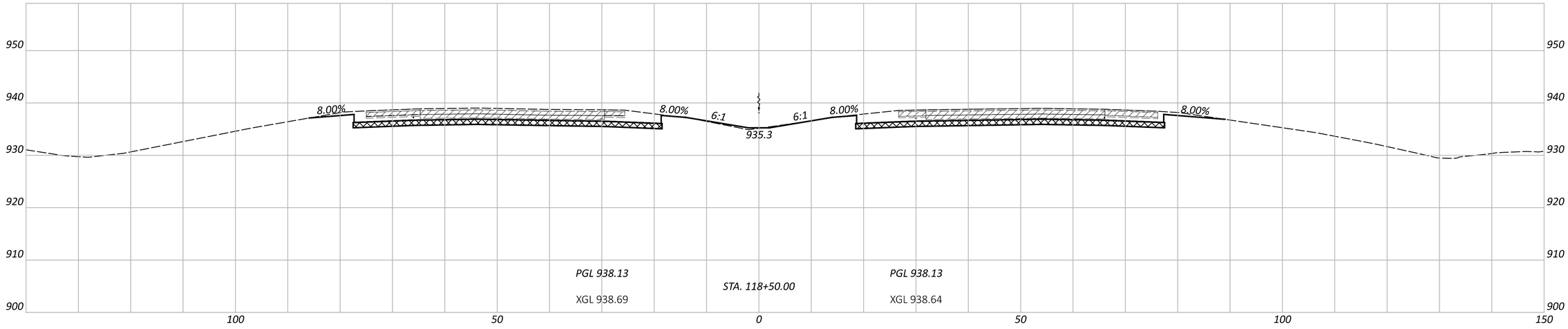

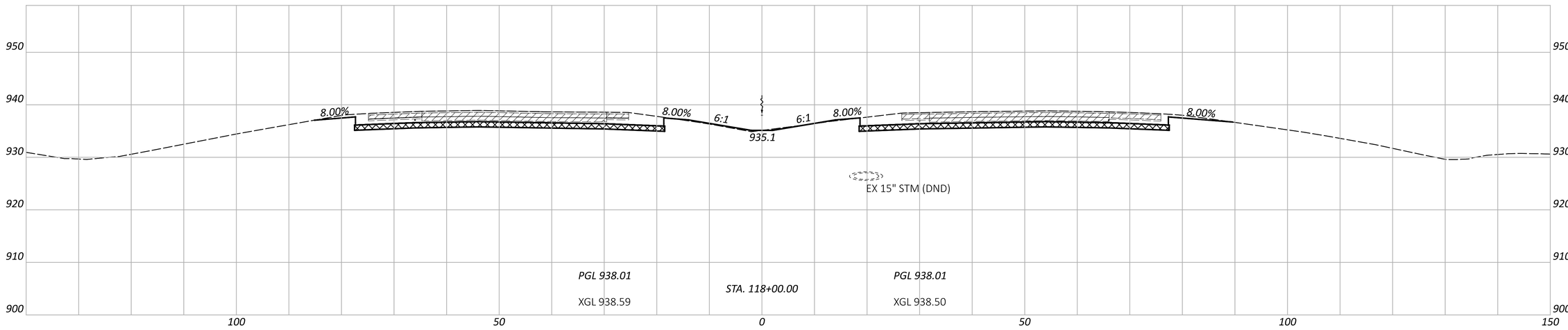

CROSS SECTIONS - IR 70
STA 118+00.00 TO STA 119+00.00

FRA-70-00.00

MODEL: CLP_I070 - 118+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:26:13 PM USER: AMerrill
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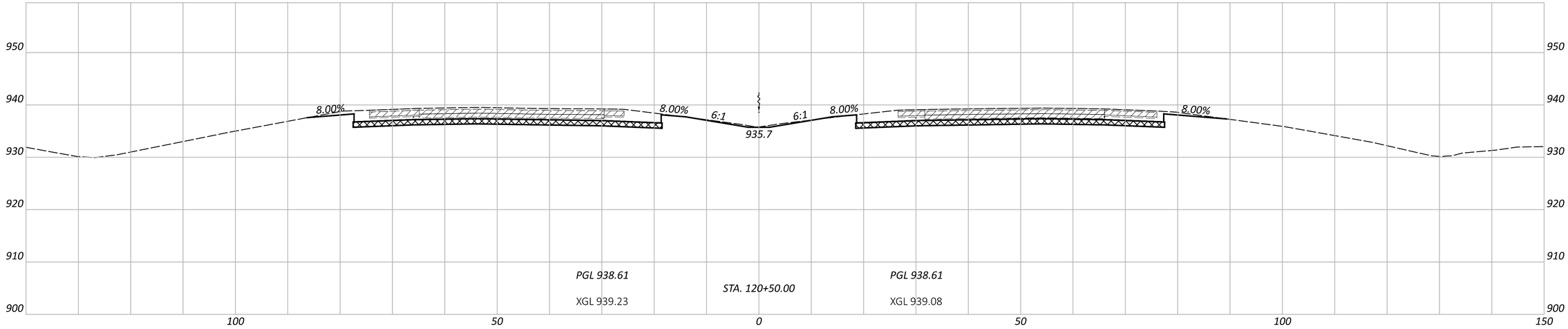
DESIGN AGENCY
AMEREAN STRUCTUREPOINT INC.

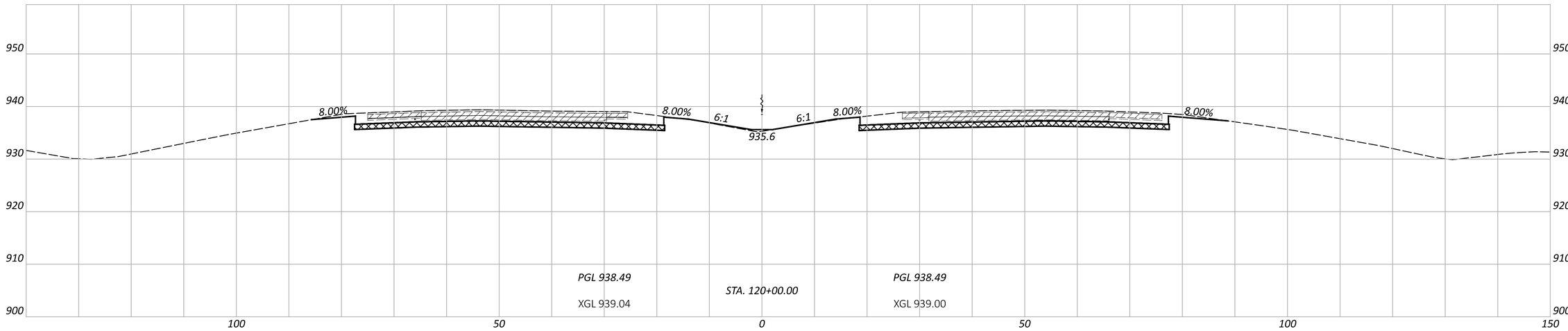
DESIGNER
ARM

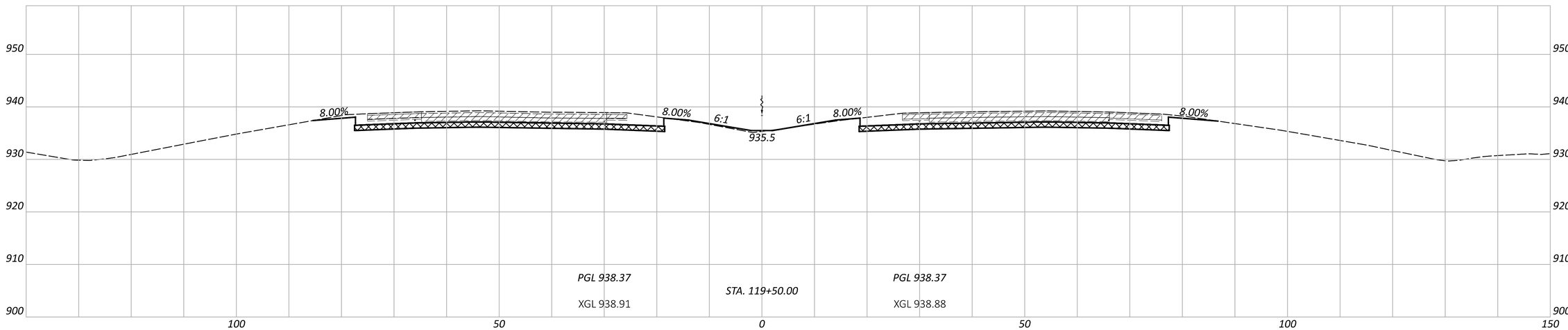
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.303 | TOTAL 577







CROSS SECTIONS - IR 70
STA 119+50.00 TO STA 120+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.304 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 119+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:26:21 PM USER: AMerrill
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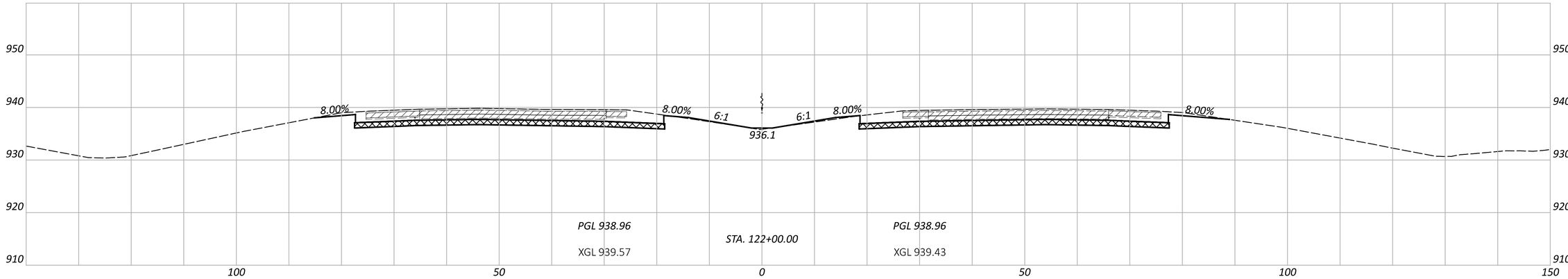

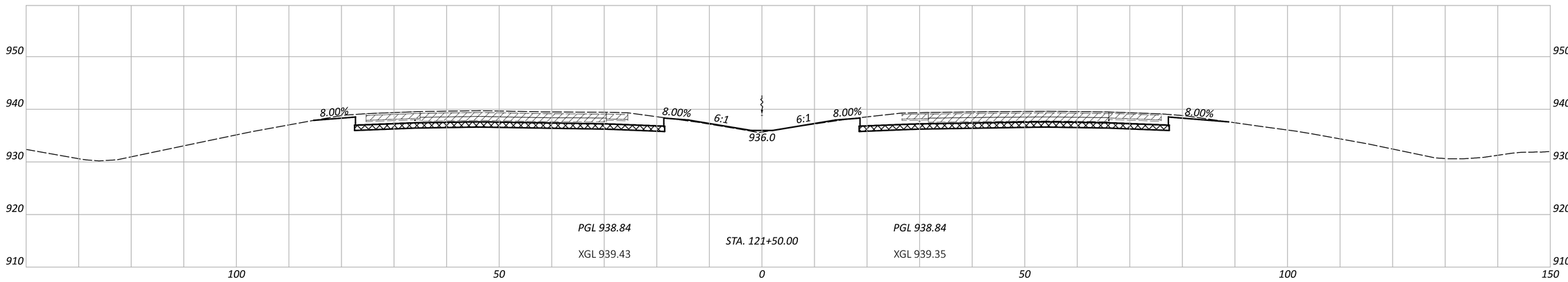

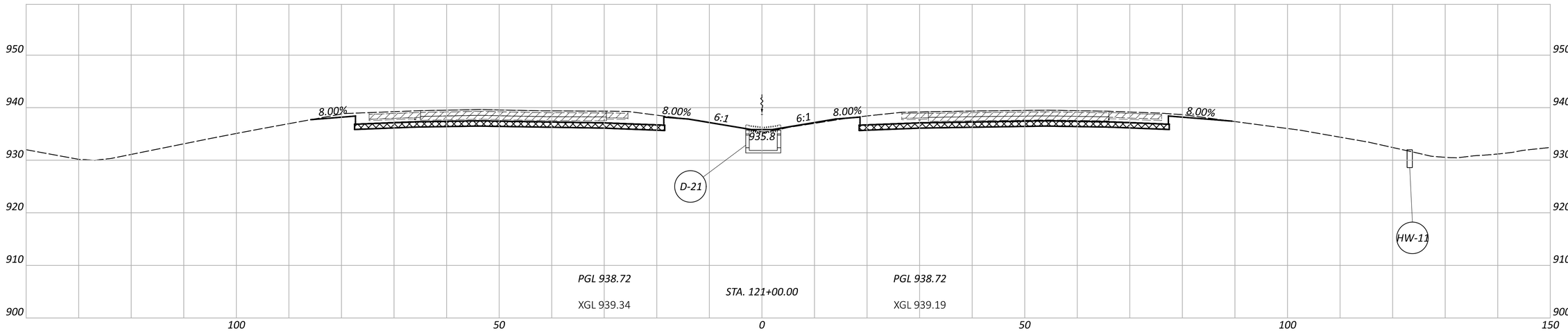

CROSS SECTIONS - IR 70
STA 121+00.00 TO STA 122+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.305 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 -121+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:26:28 PM USER: AMerrill
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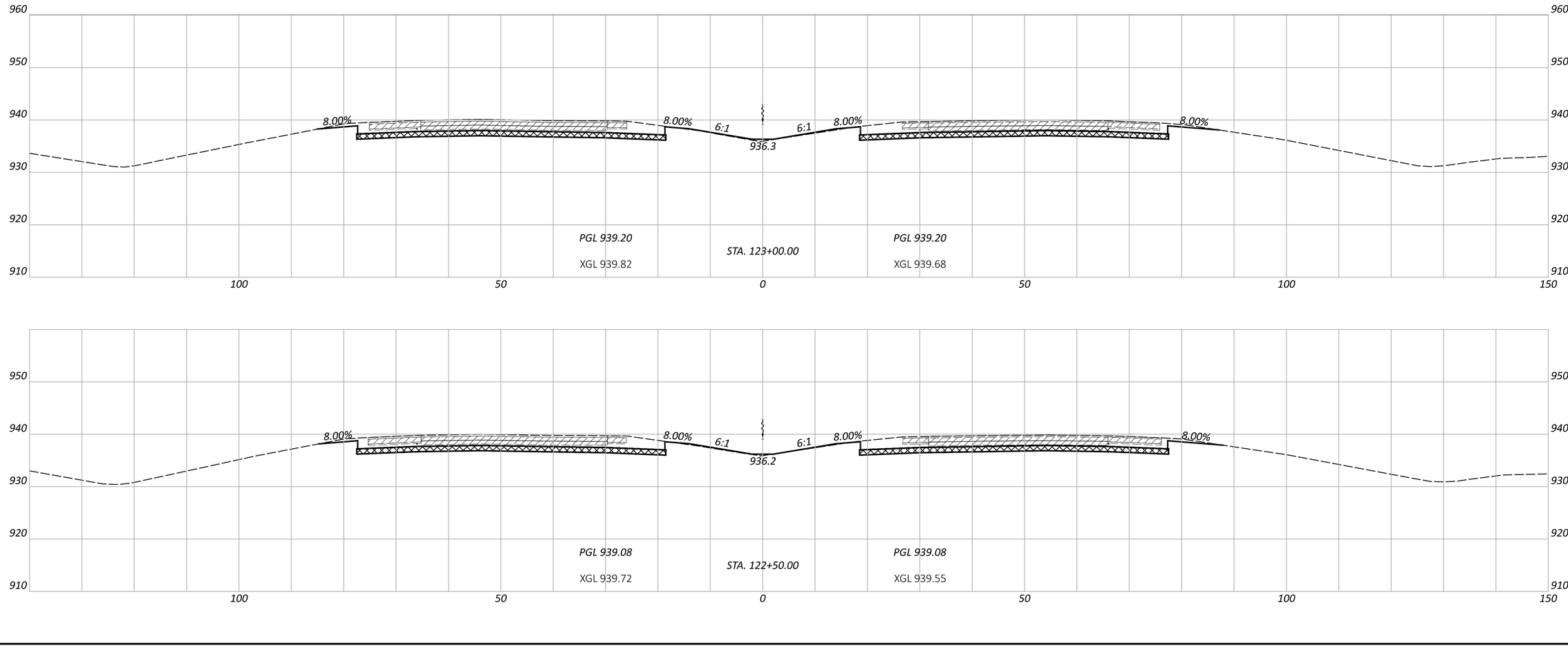

CROSS SECTIONS - IR 70
STA 122+50.00 TO STA 123+00.00

DESIGN AGENCY
WEHRLEY STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.306 | TOTAL 577

FRA-70-00.00

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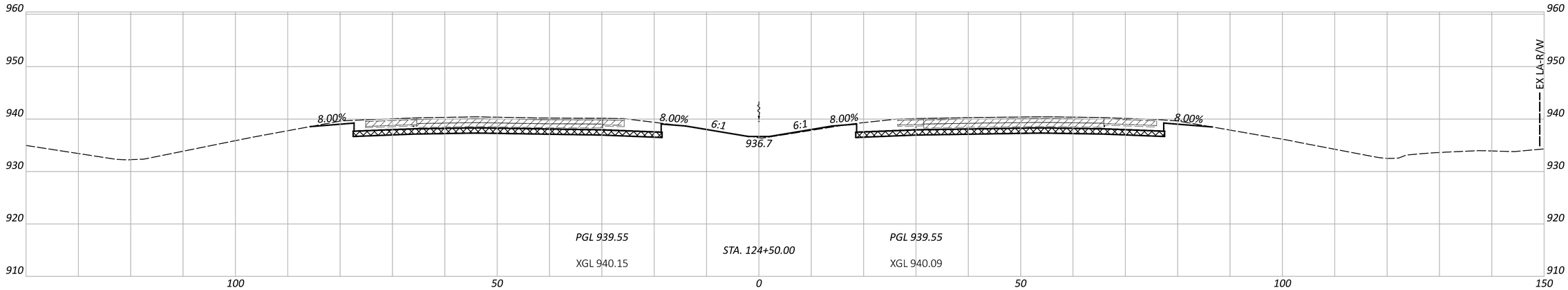

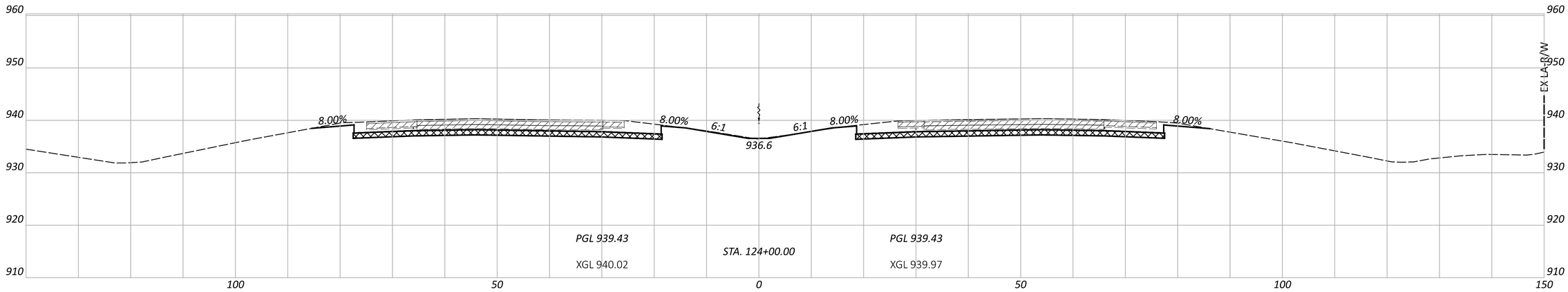

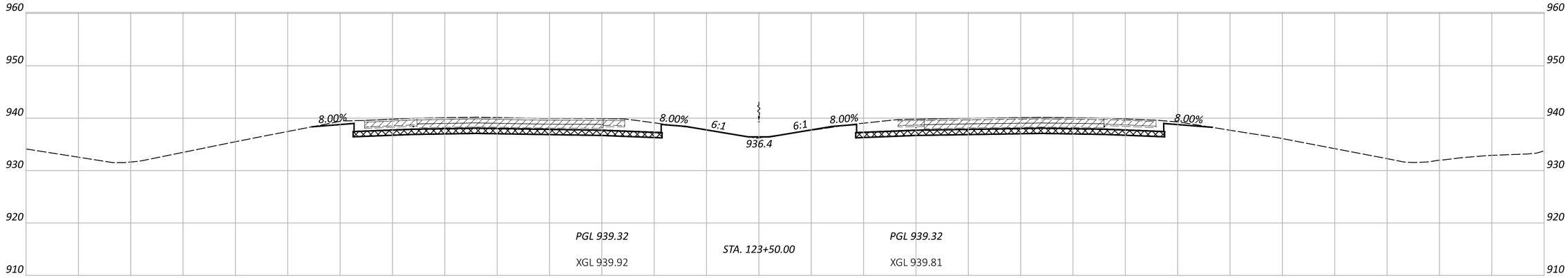

CROSS SECTIONS - IR 70
STA 123+50.00 TO STA 124+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.307 TOTAL 577

FRA-70-00.00

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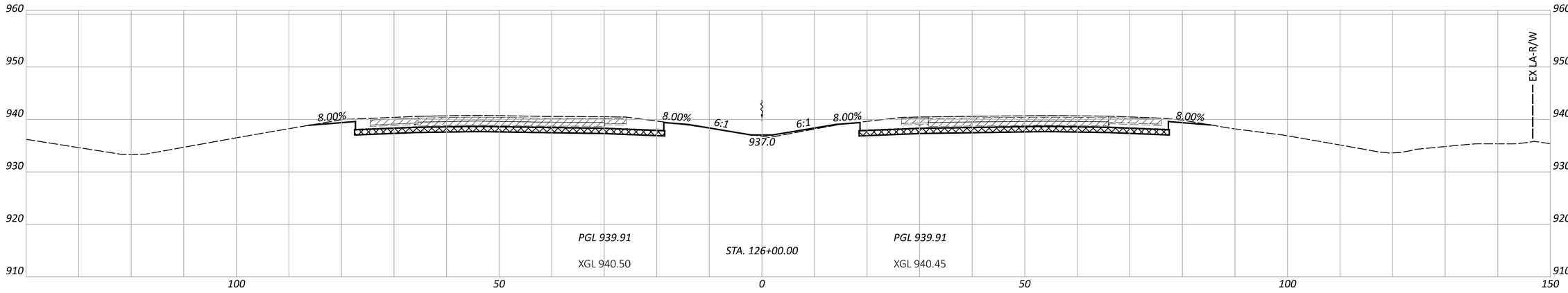

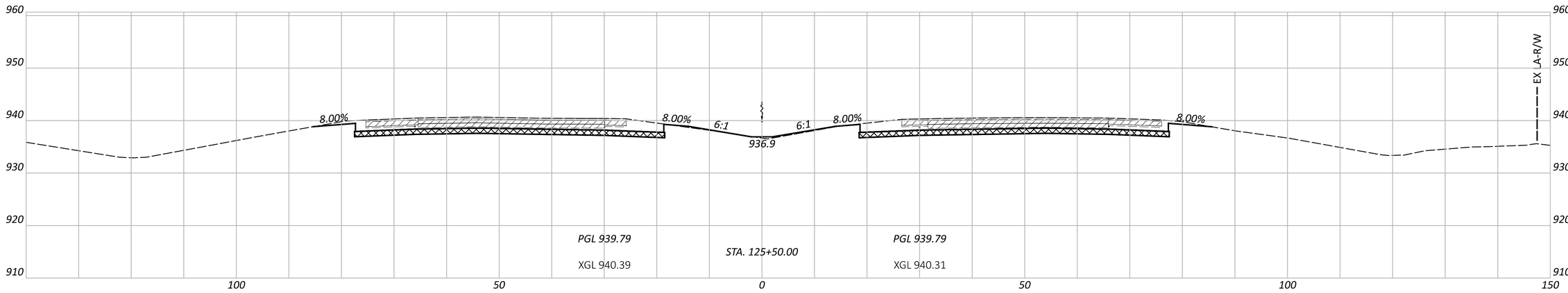

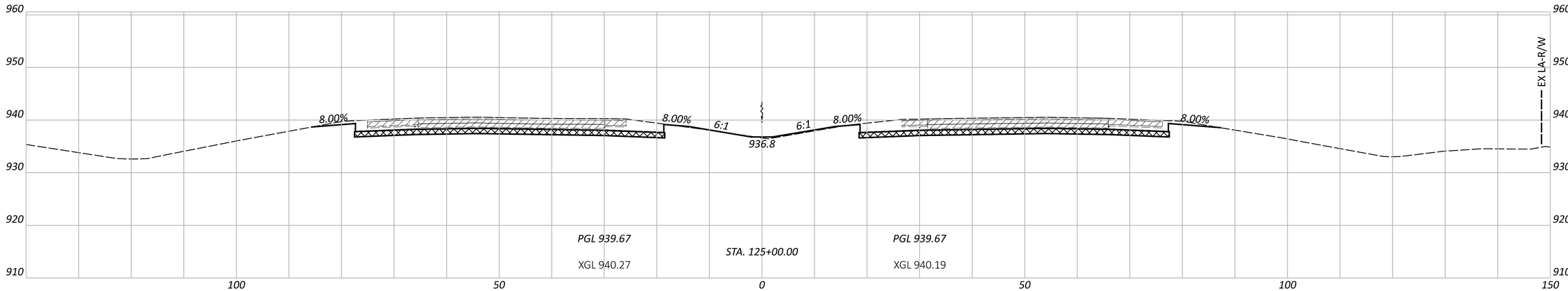

CROSS SECTIONS - IR 70
STA 125+00.00 TO STA 126+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.308 TOTAL 577

FRA-70-00.00

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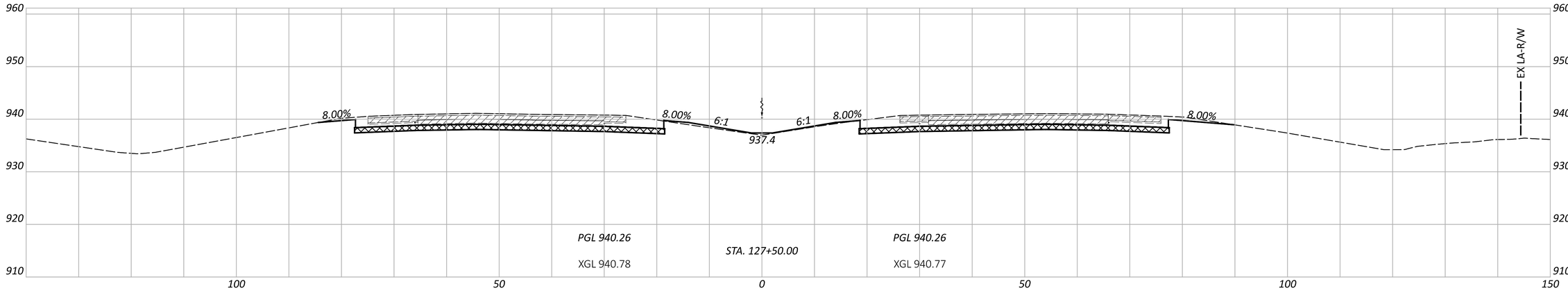

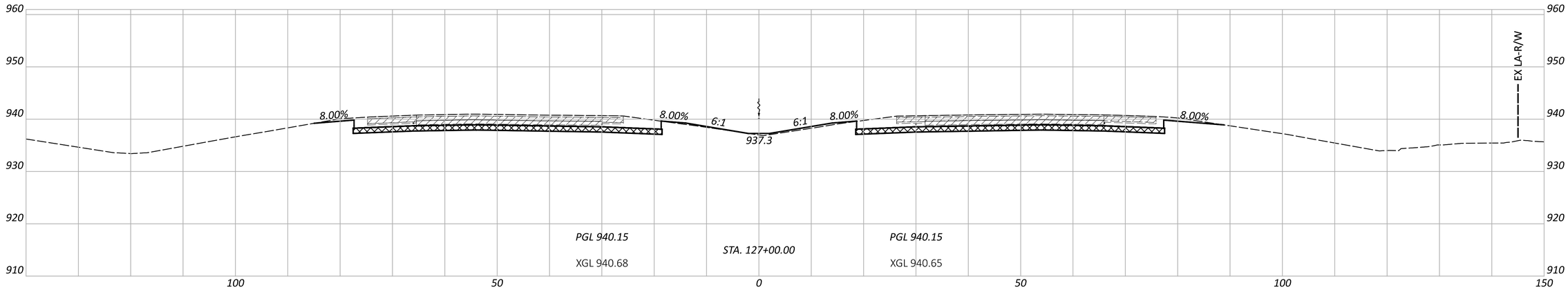

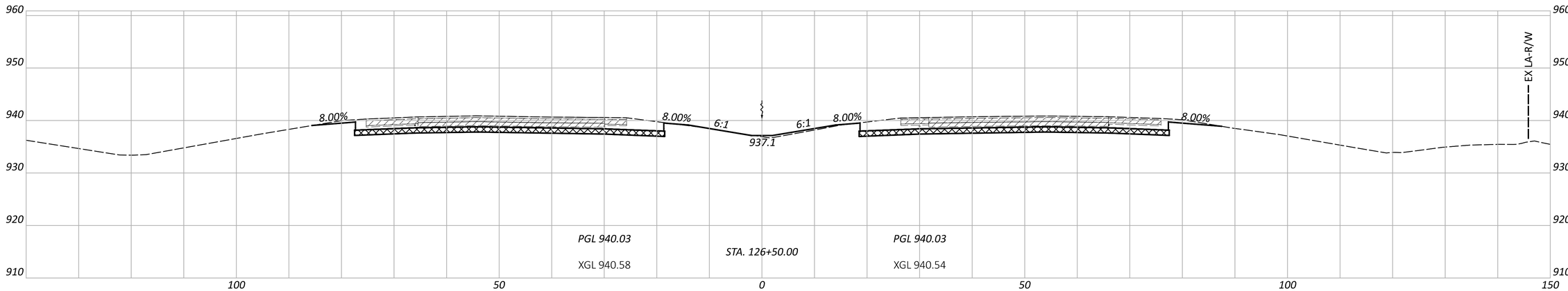

CROSS SECTIONS - IR 70
STA 126+50.00 TO STA 127+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.309 | TOTAL 577

FRA-70-00.00

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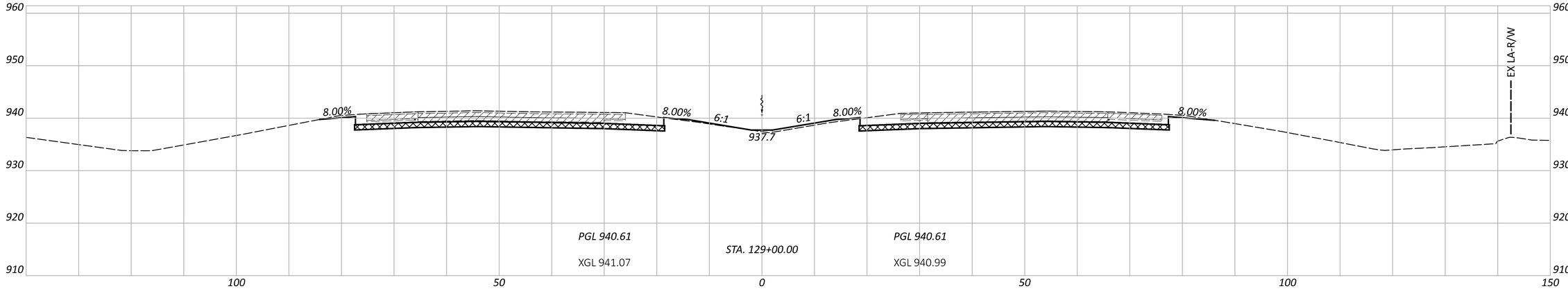

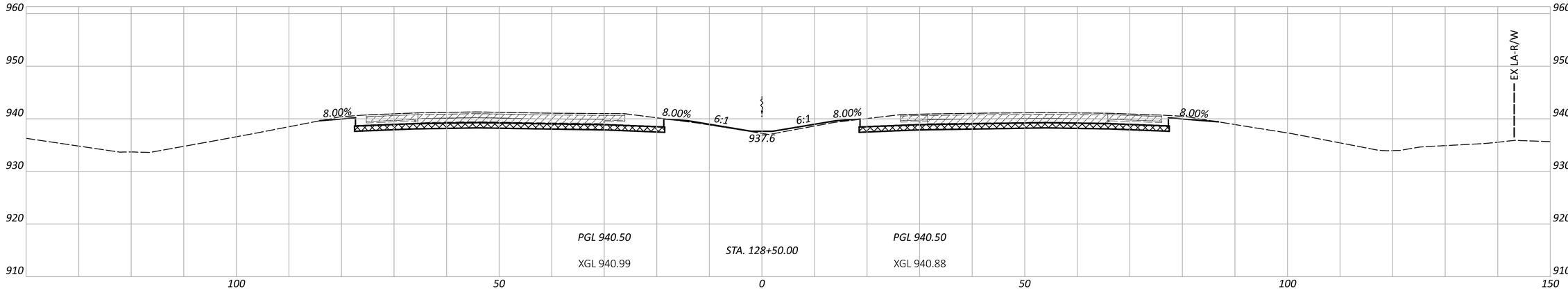

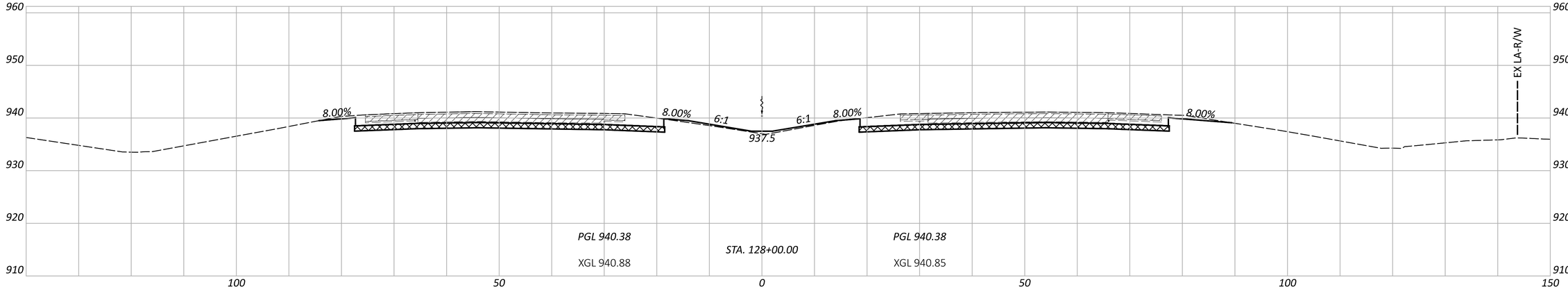

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CROSS SECTIONS - IR 70
STA 128+00.00 TO STA 129+00.00

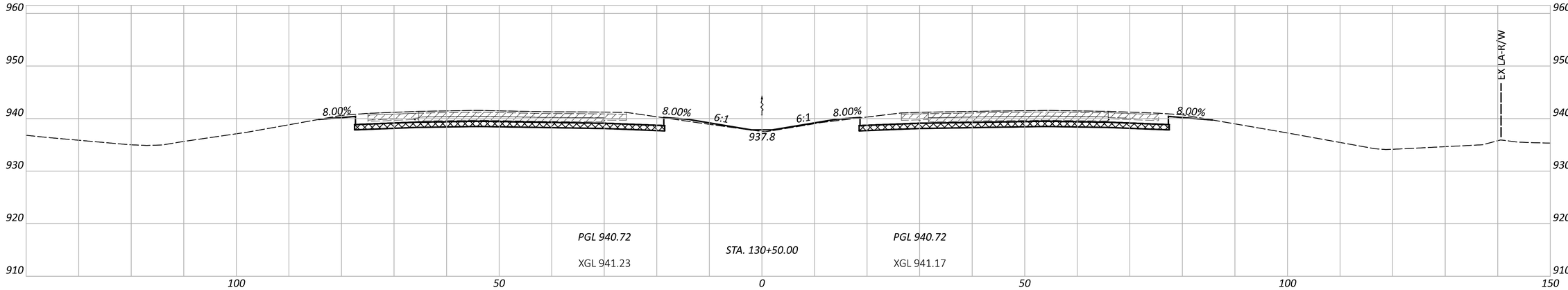
DESIGN AGENCY
STRUCTUREPOINT LLC

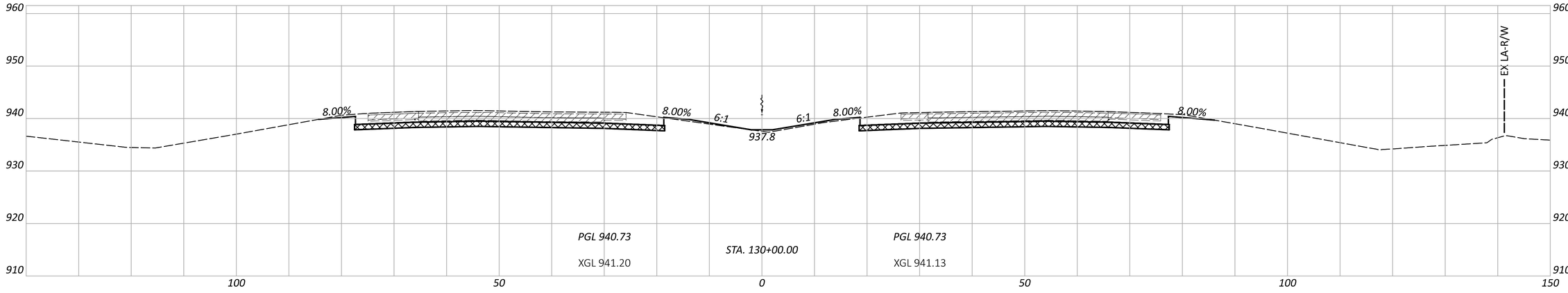
DESIGNER
ARM

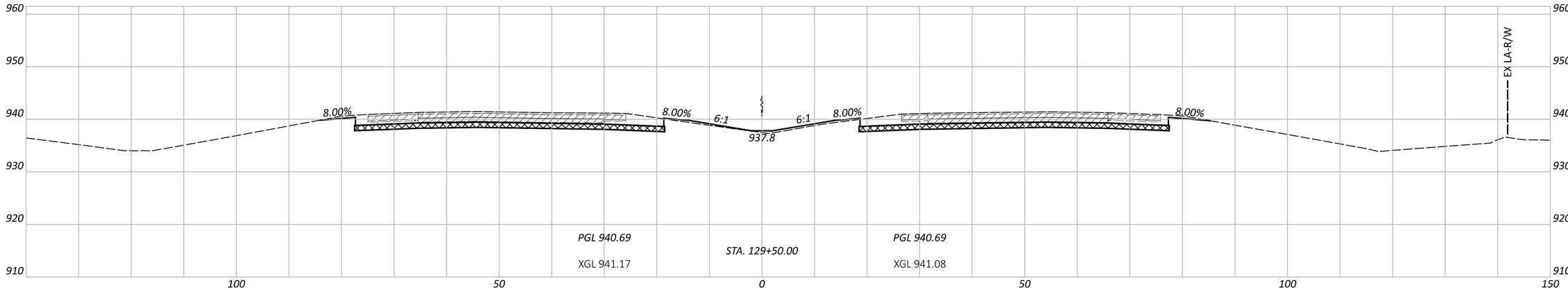
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.310 TOTAL 577







CROSS SECTIONS - IR 70
STA 129+50.00 TO STA 130+50.00

FRA-70-00.00

MODEL: CLP_I070 - 129+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:27:15 PM USER: AMerrill
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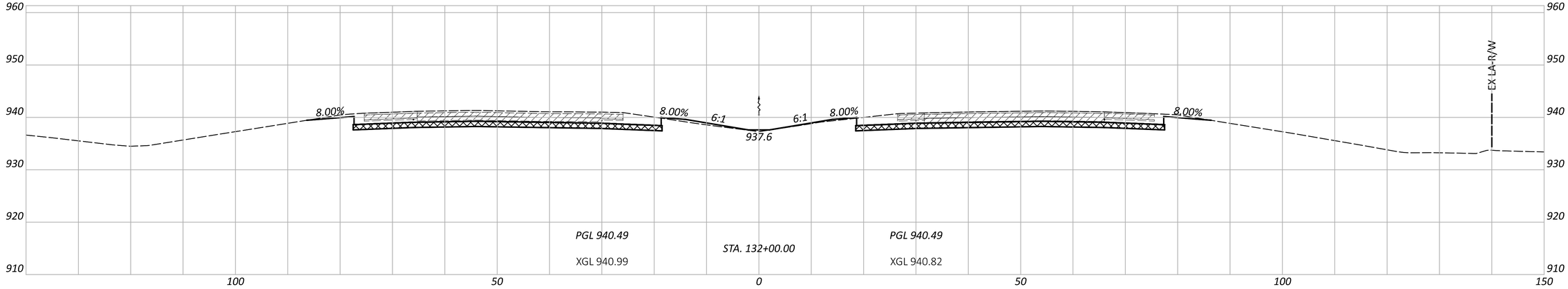
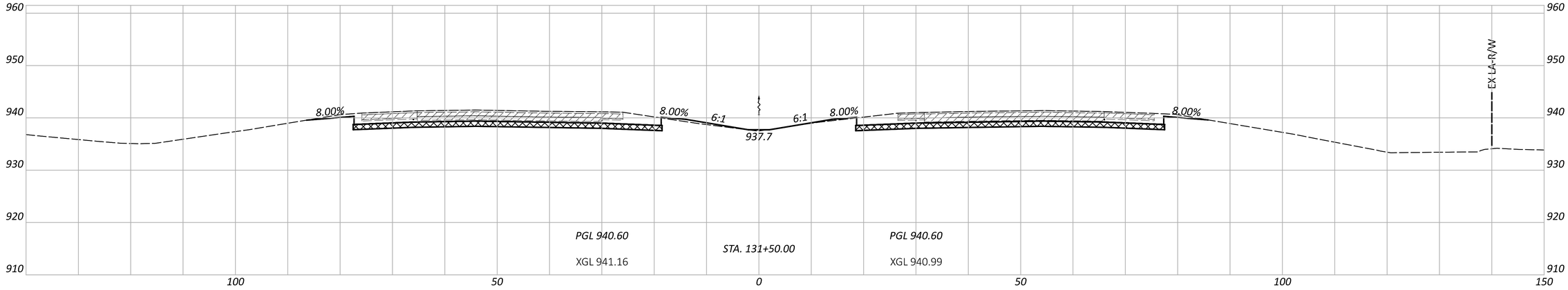
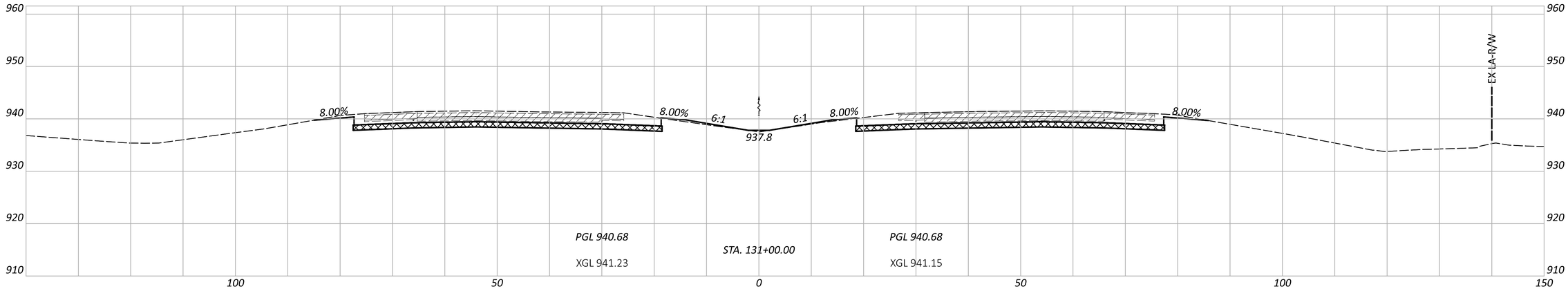
DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.311
TOTAL	577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 131+00.00 TO STA 132+00.00

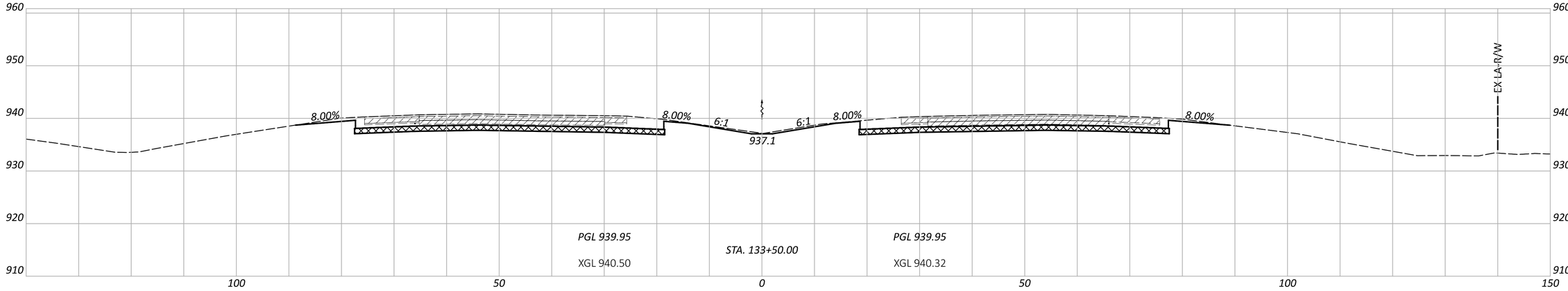
DESIGN AGENCY
STRUCTUREPOINT LLC

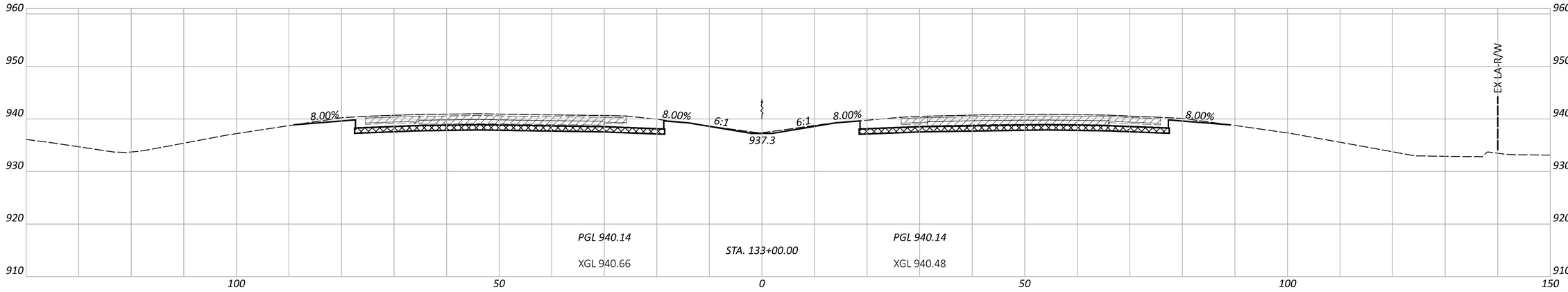
DESIGNER
ARM

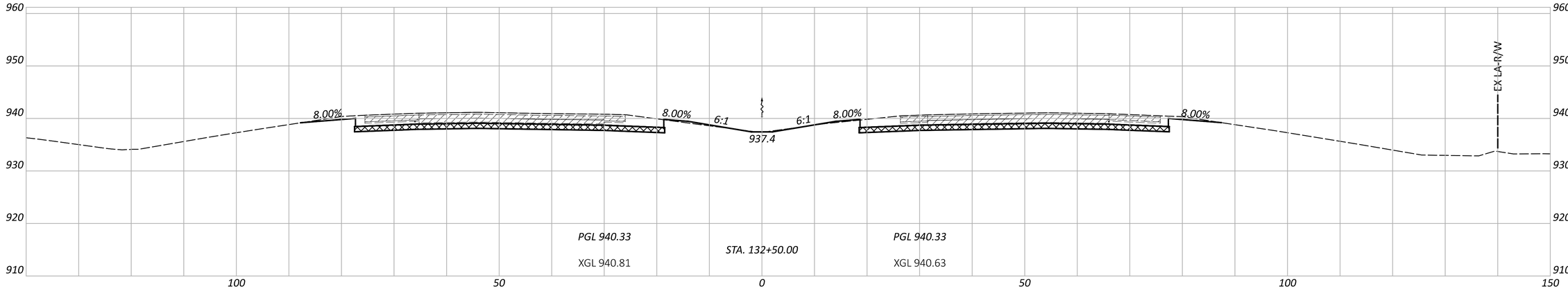
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.312 | TOTAL 577







CROSS SECTIONS - IR 70
STA 132+50.00 TO STA 133+50.00

DESIGN AGENCY
KIEWIT STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.313 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 132+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:27:30 PM USER: AMerrill
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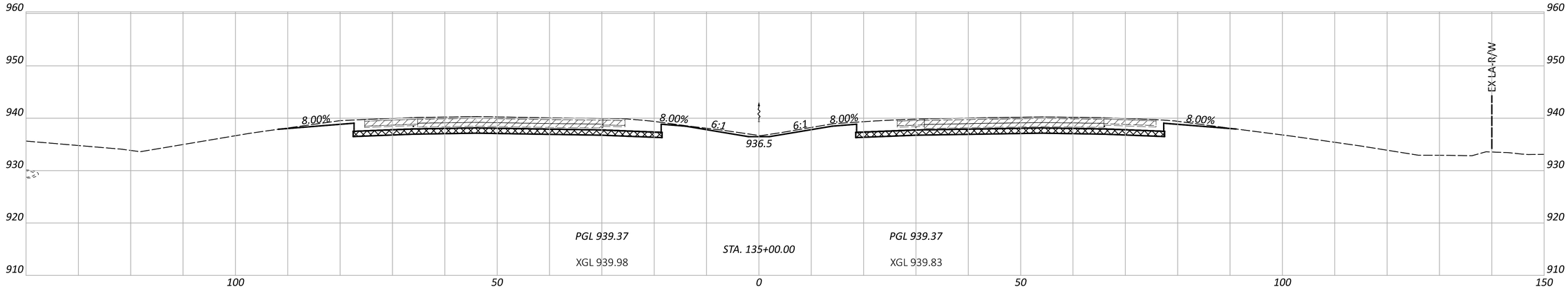

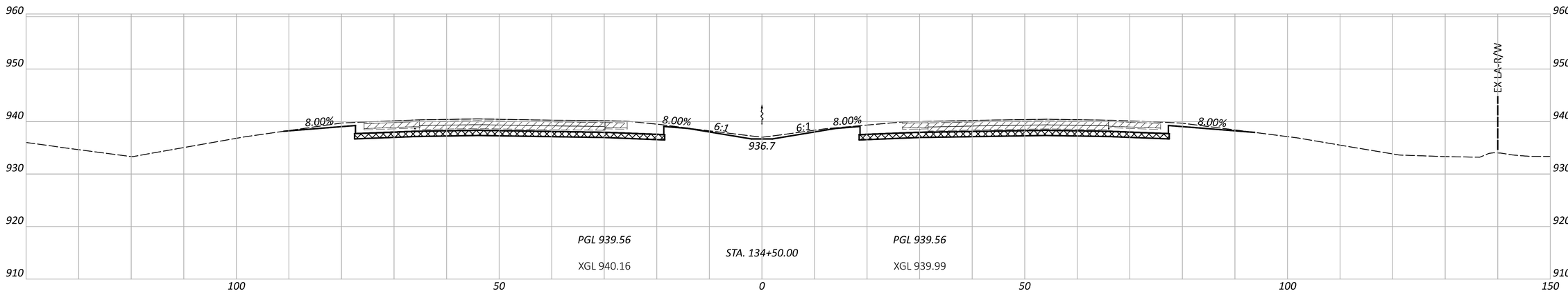

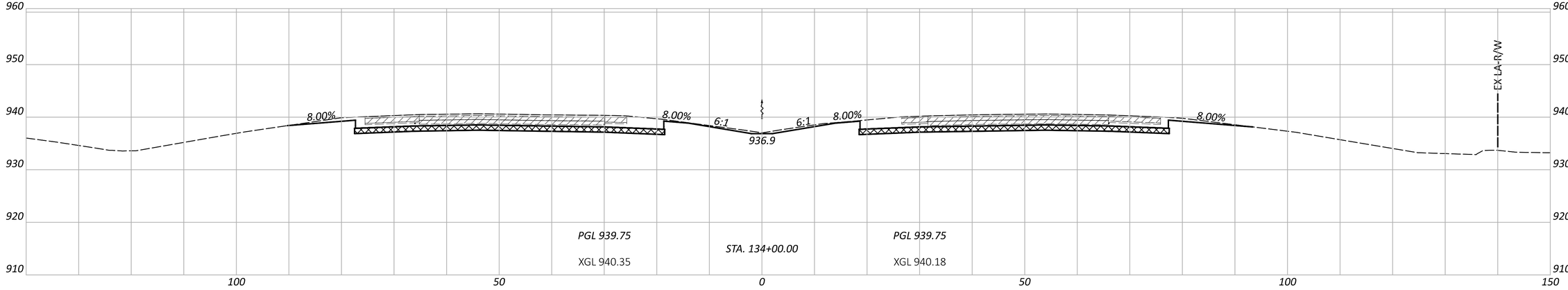

CROSS SECTIONS - IR 70
STA 134+00.00 TO STA 135+00.00

DESIGN AGENCY
MERLEAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.314 | TOTAL 577

FRA-70-00.00

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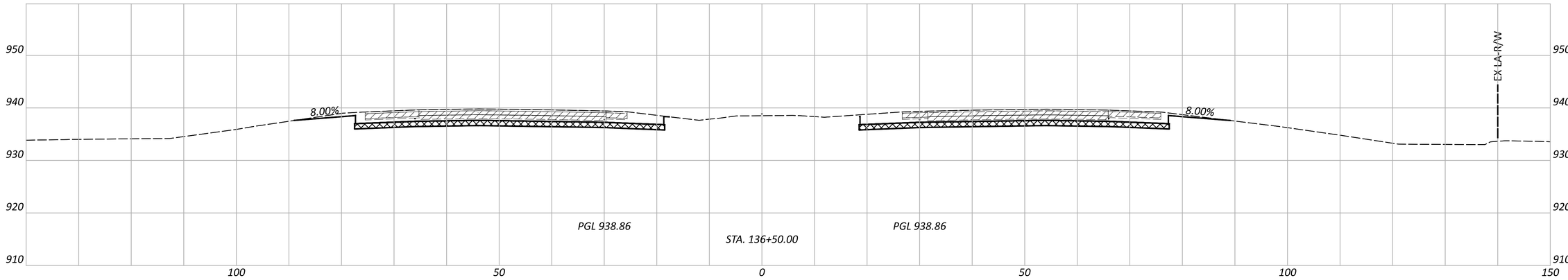

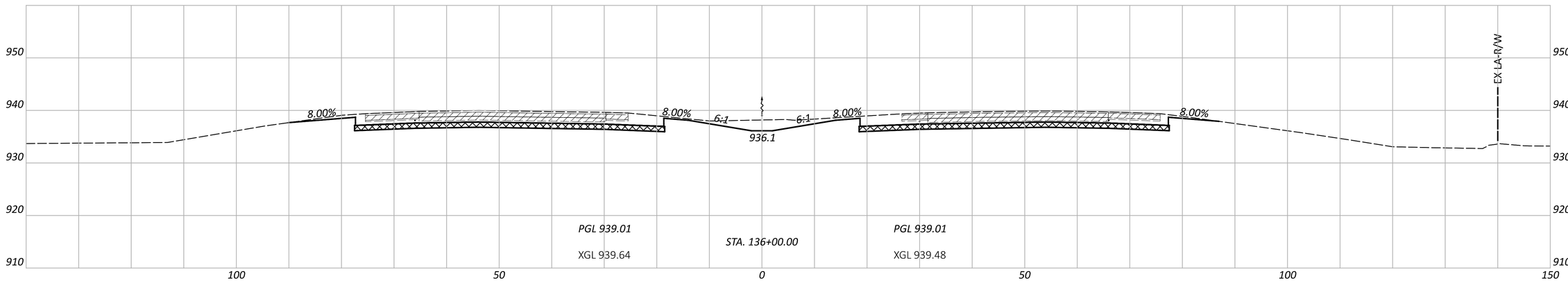

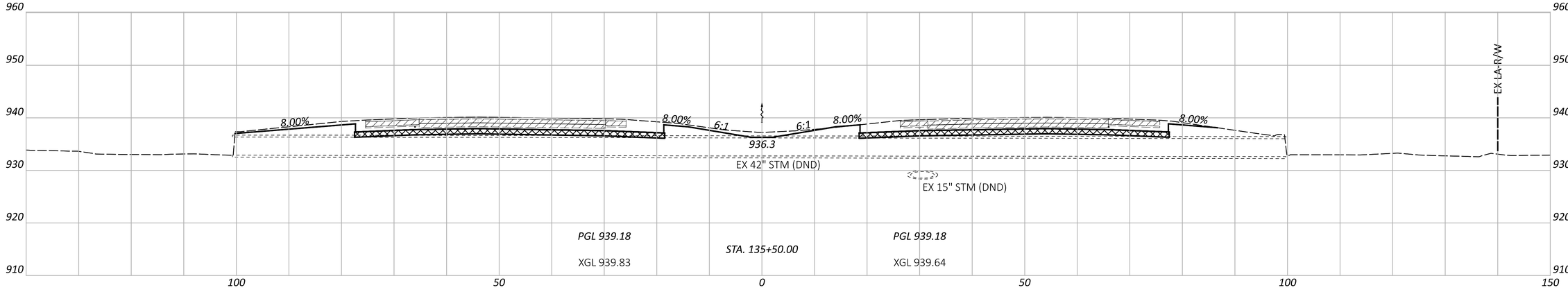

CROSS SECTIONS - IR 70
STA 135+50.00 TO STA 136+50.00

FRA-70-00.00

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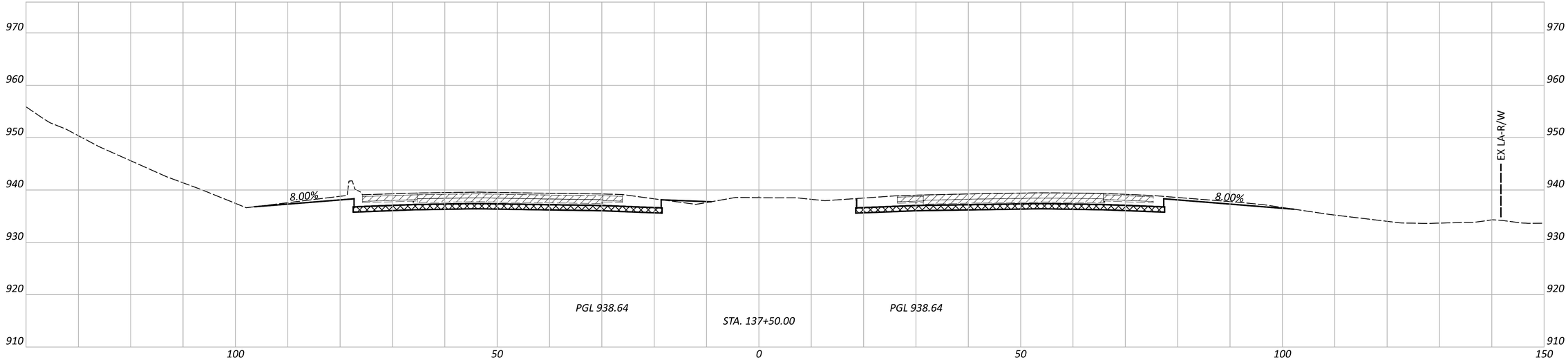
DESIGN AGENCY
STRUCTUREPOINT LLC

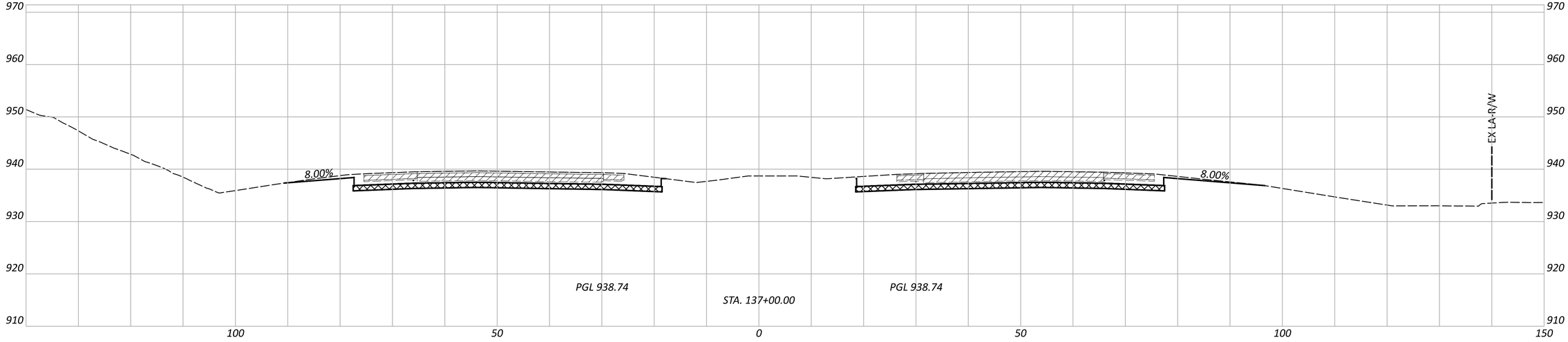
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.315 TOTAL 577





CROSS SECTIONS - IR 70
STA 137+00.00 TO STA 137+50.00

FRA-70-00.00

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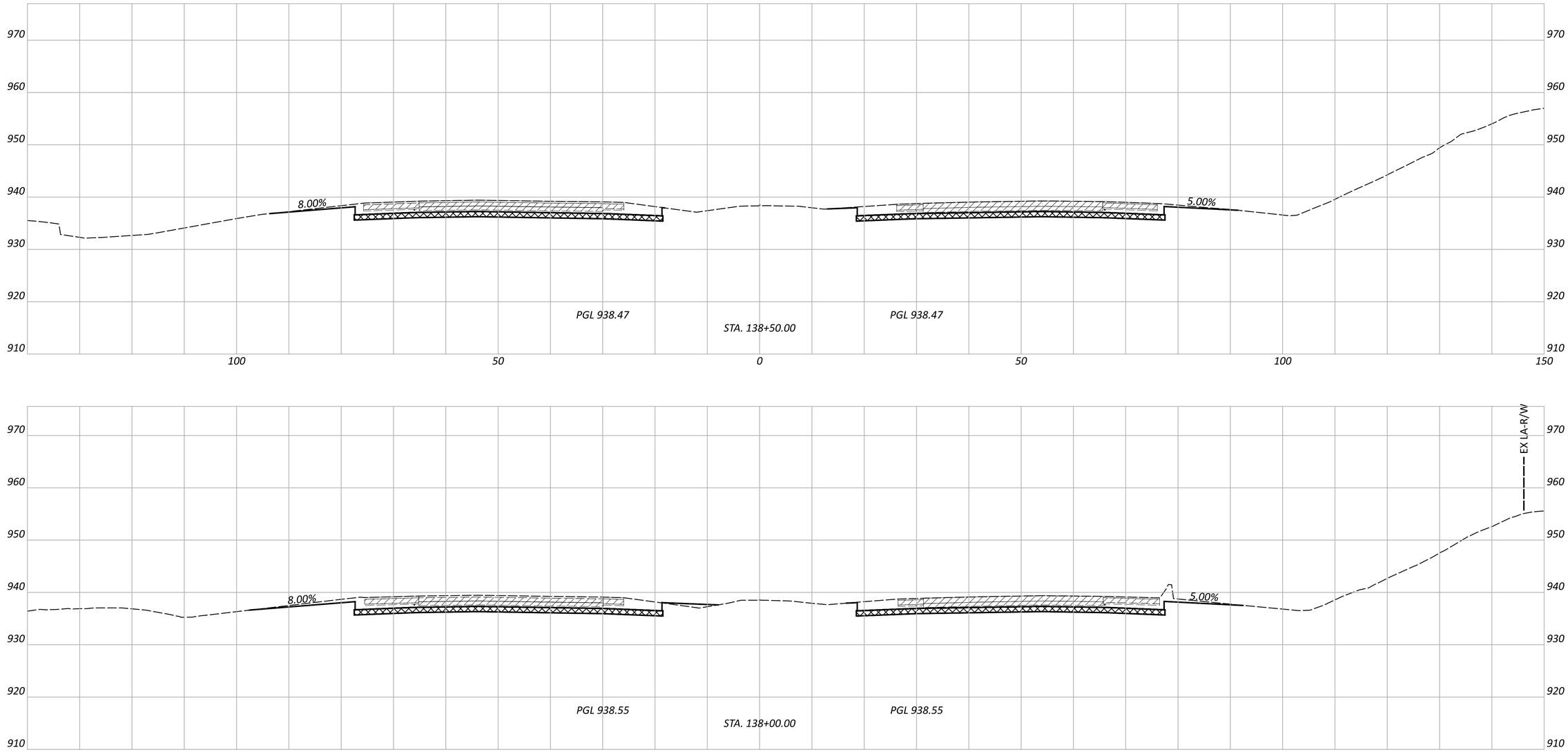
DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.316 | TOTAL 577



CROSS SECTIONS - IR 70
STA 138+00.00 TO STA 138+50.00

FRA-70-00.00

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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.317
TOTAL	577

CROSS SECTIONS - IR 70
STA 139+00.00 TO STA 140+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.318 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 139+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:28:04 PM USER: AMerrill
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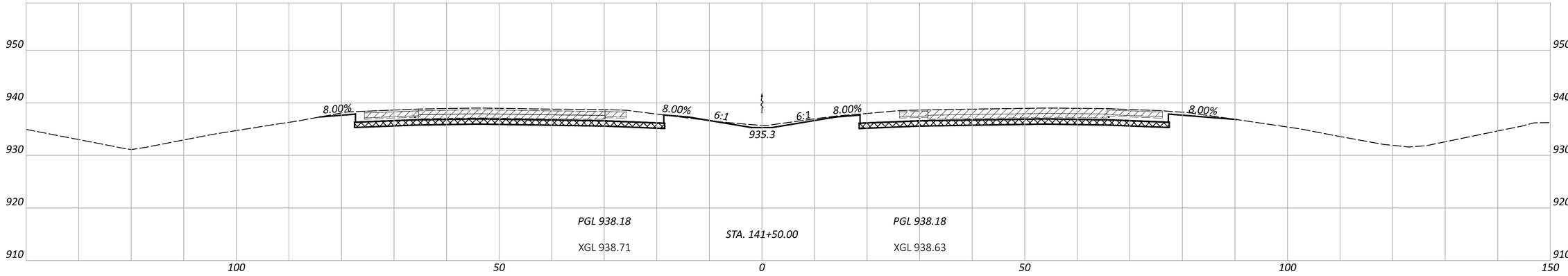

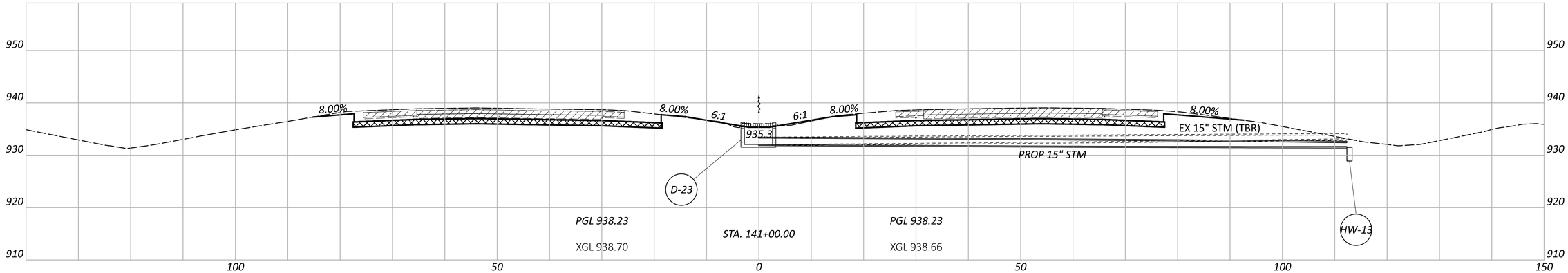

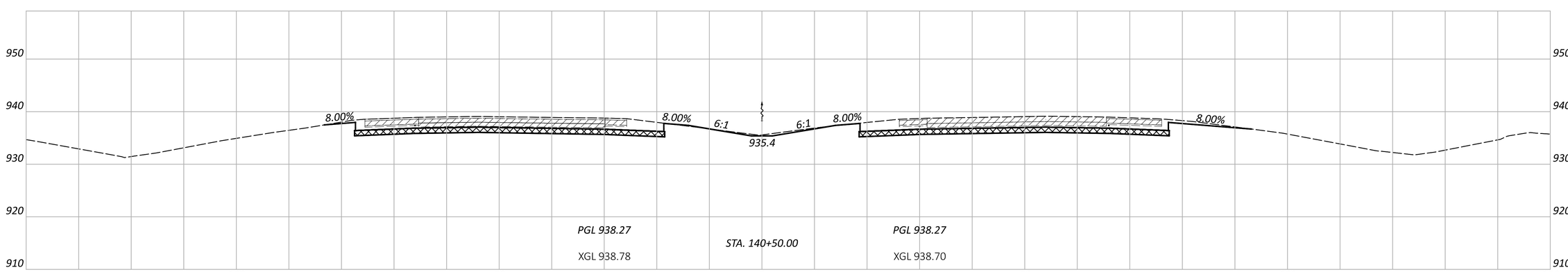

CROSS SECTIONS - IR 70
STA 140+50.00 TO STA 141+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.319 TOTAL 577

FRA-70-00.00

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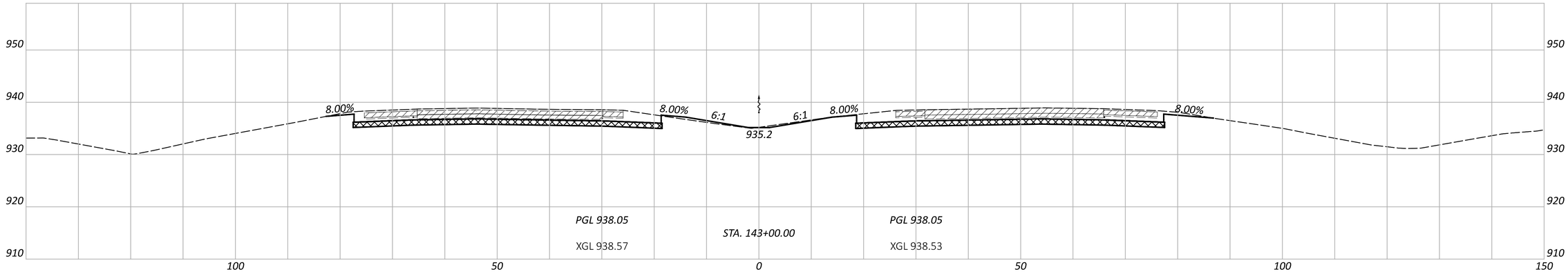

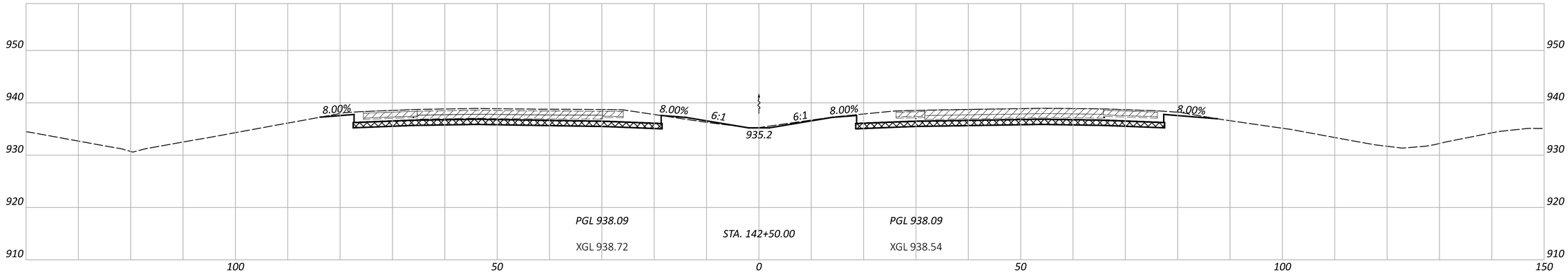

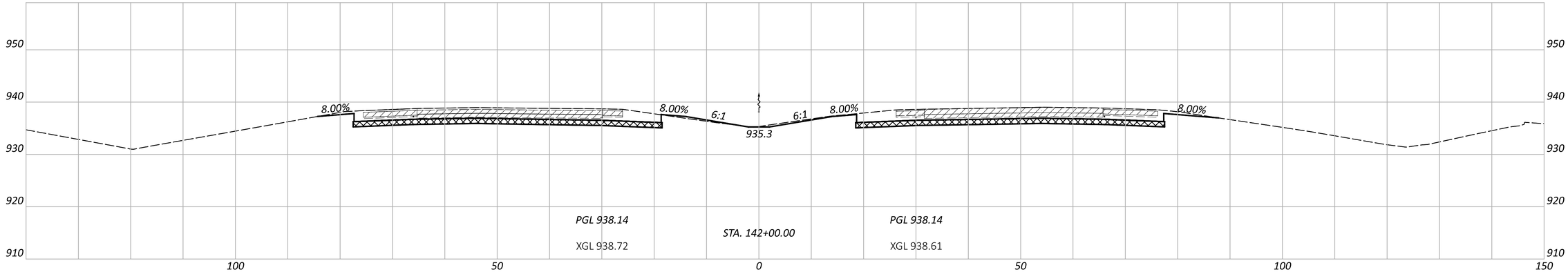

CROSS SECTIONS - IR 70
STA 142+00.00 TO STA 143+00.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.320 TOTAL 577

FRA-70-00.00

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FRA-70-00.00

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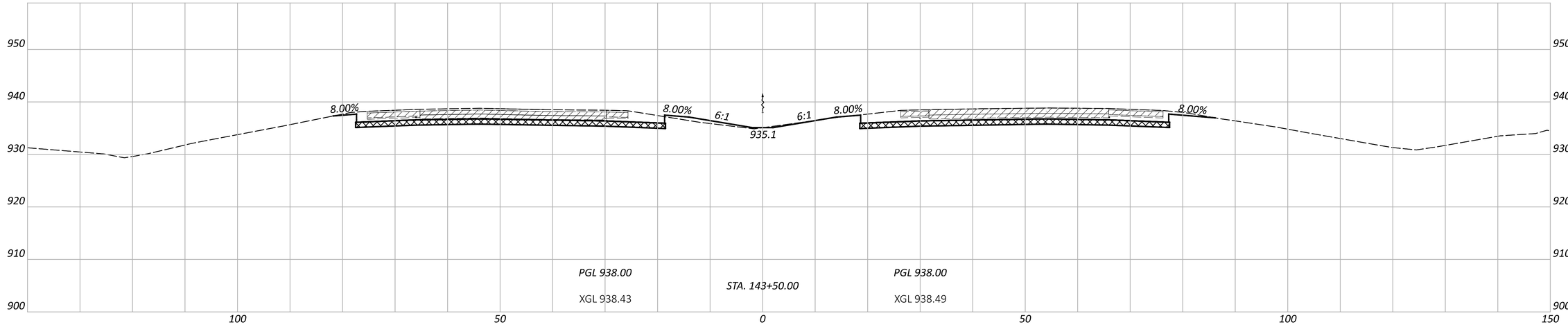
CROSS SECTIONS - IR 70
STA 143+50.00



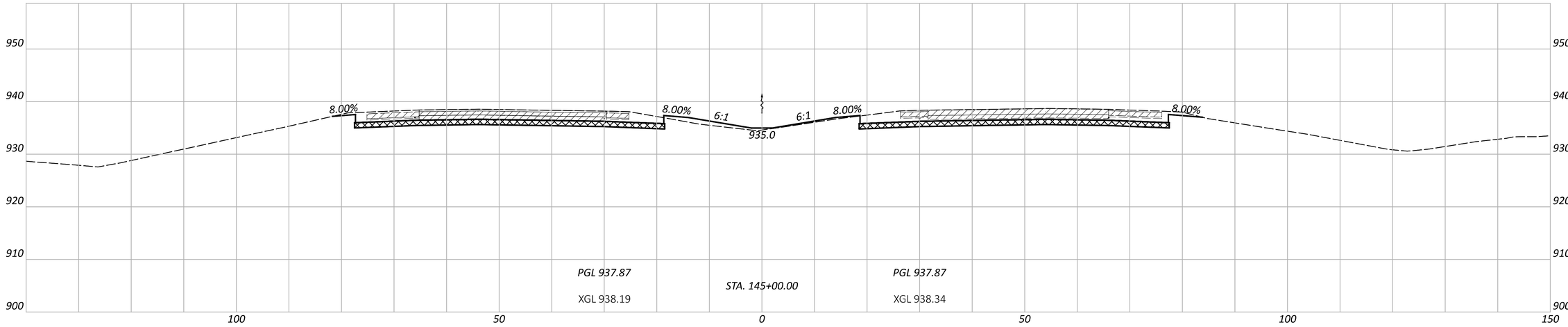
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

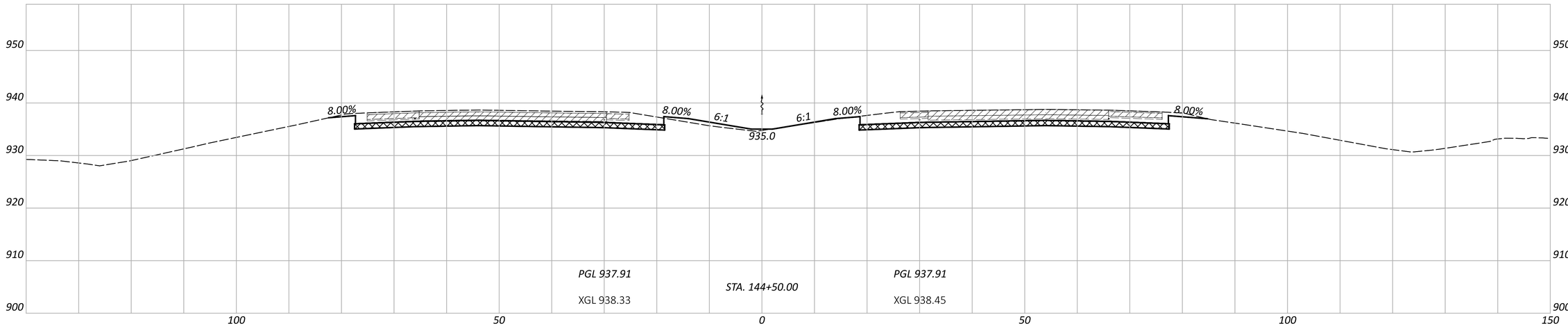
DESIGNER
ARM

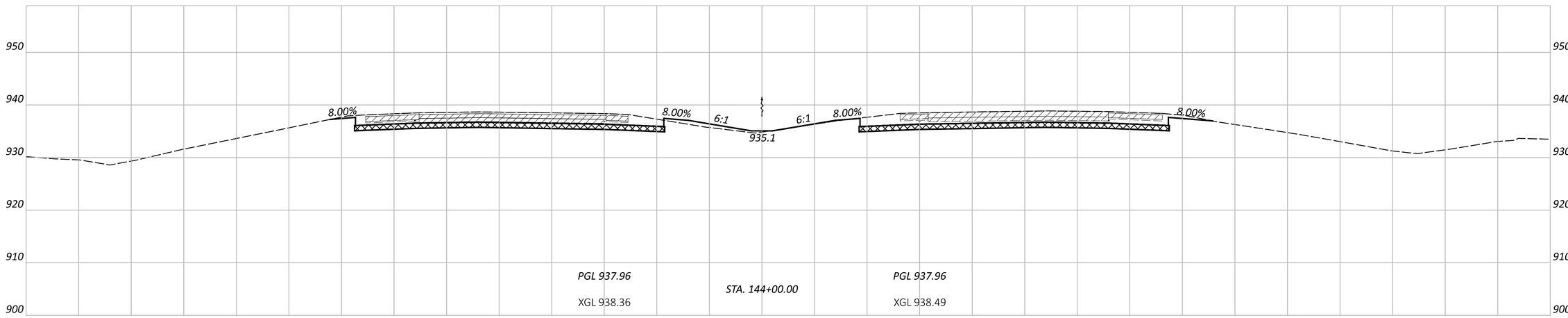
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.321 | TOTAL 577







CROSS SECTIONS - IR 70
STA 144+00.00 TO STA 145+00.00

FRA-70-00.00

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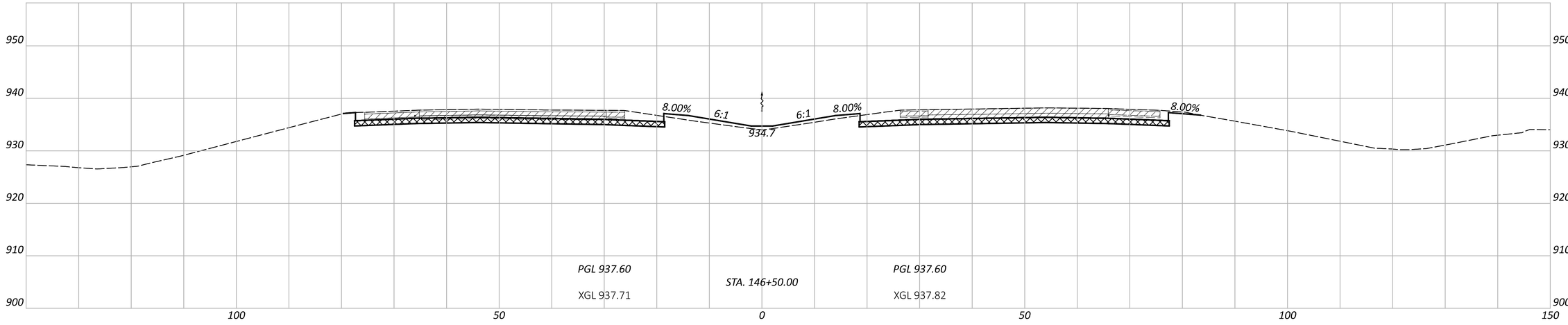
DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

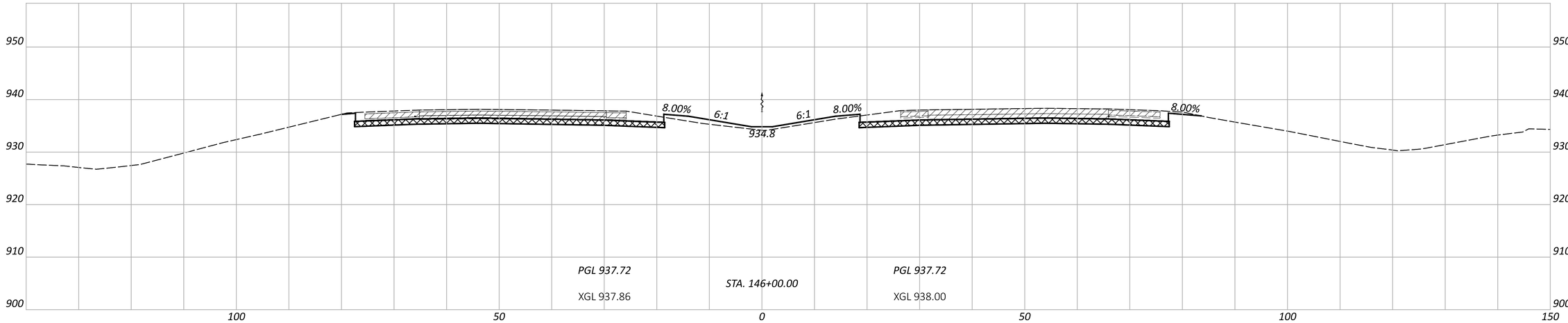
DESIGNER
ARM

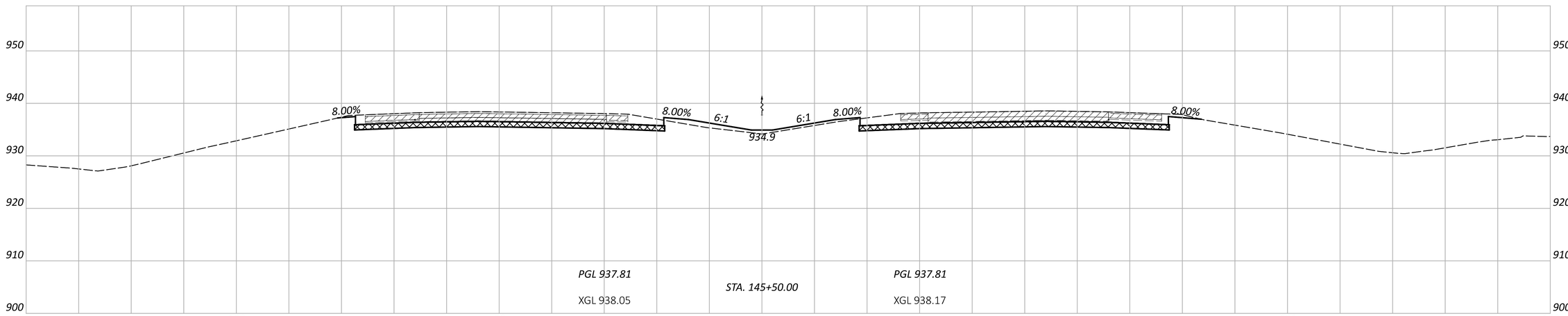
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.322 | TOTAL 577







CROSS SECTIONS - IR 70
STA 145+50.00 TO STA 146+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.323 | TOTAL 577

FRA-70-00.00

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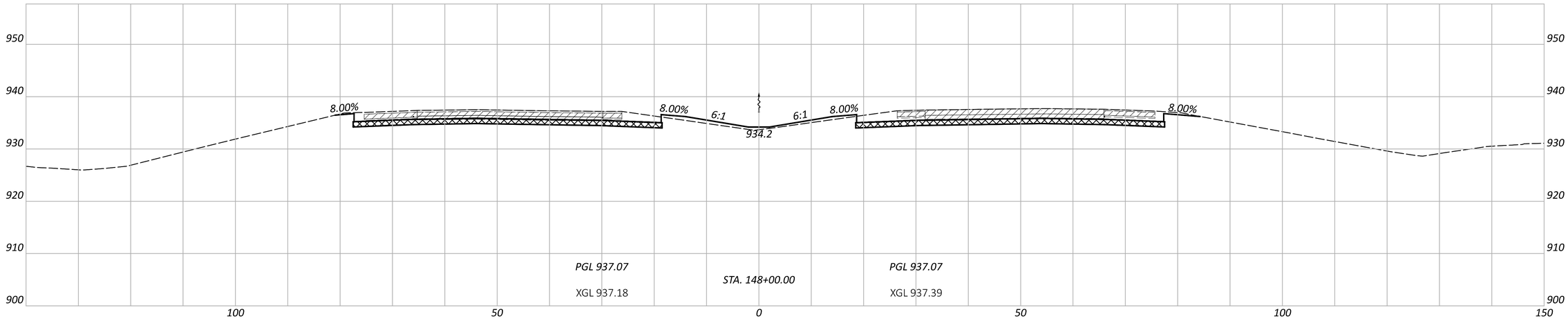

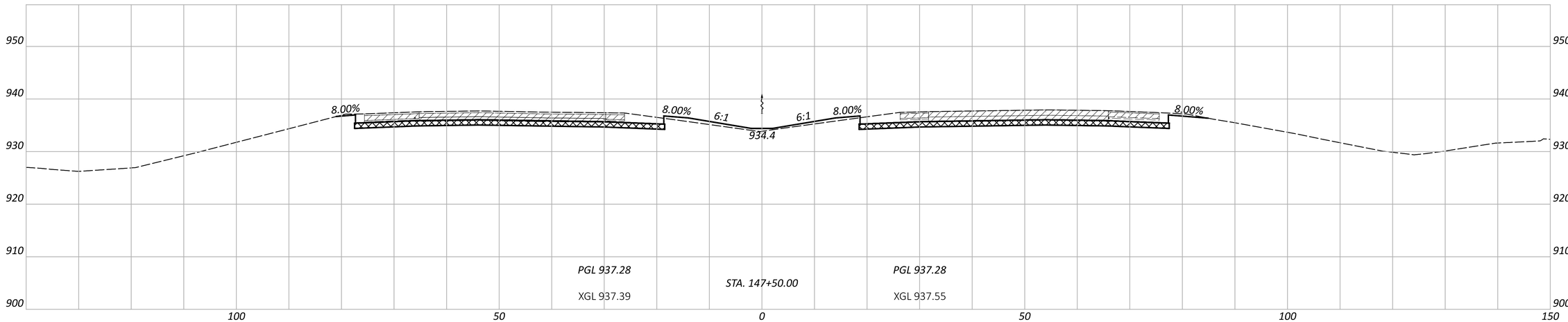

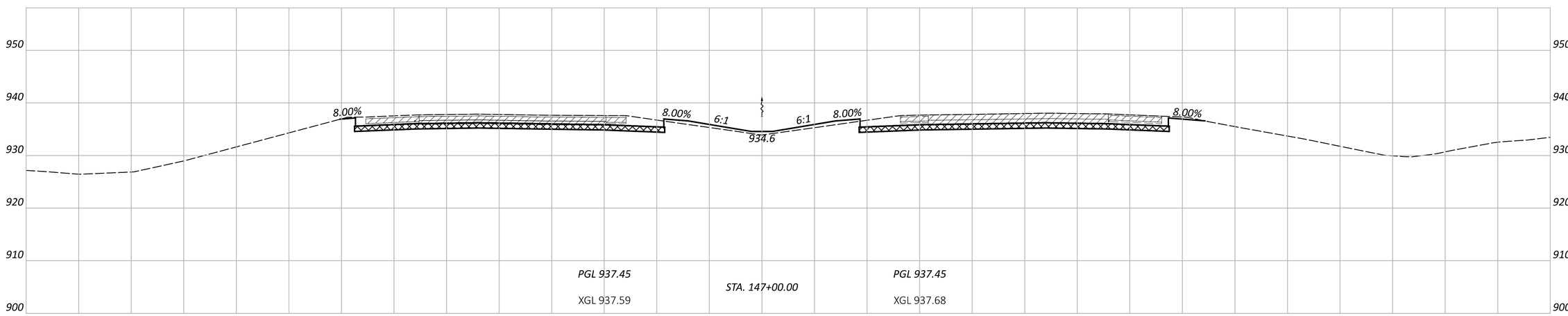

CROSS SECTIONS - IR 70
STA 147+00.00 TO STA 148+00.00

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.324 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 147+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:28:49 PM USER: AMerrill
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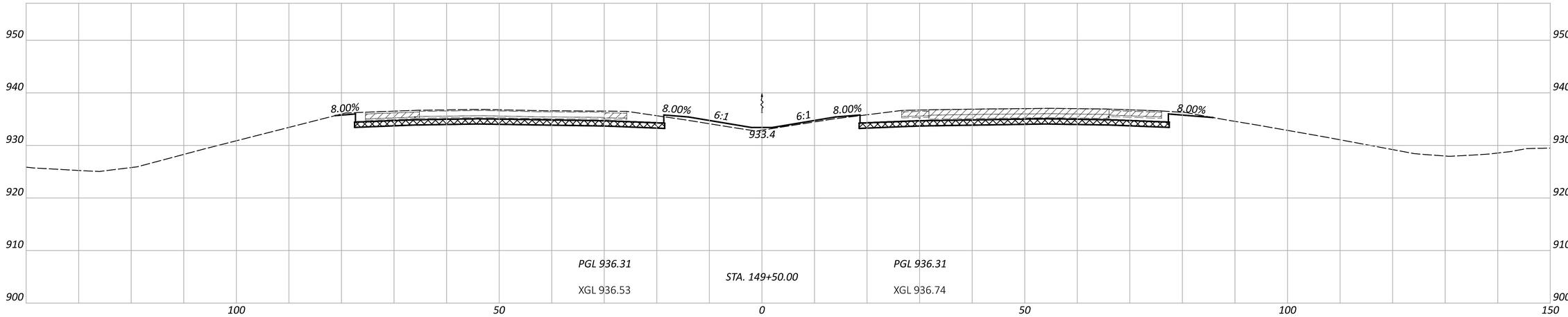

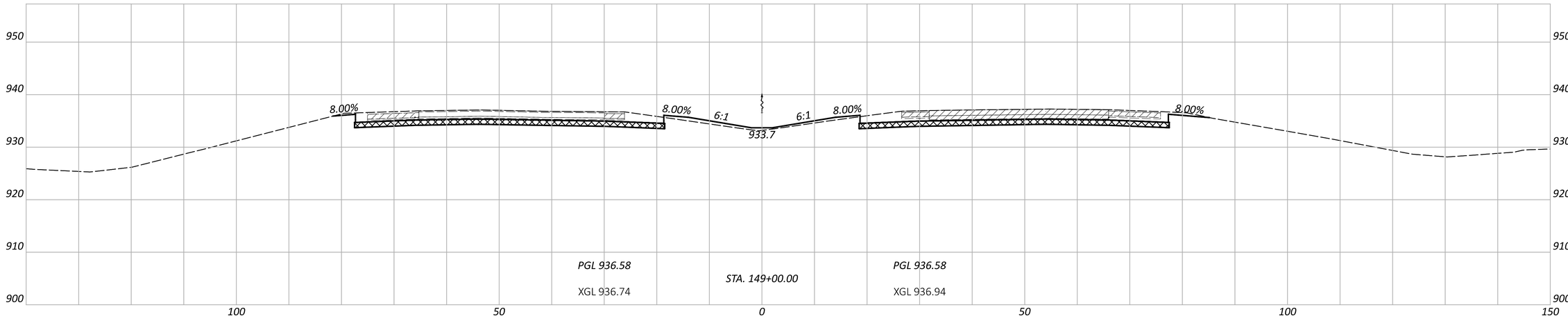

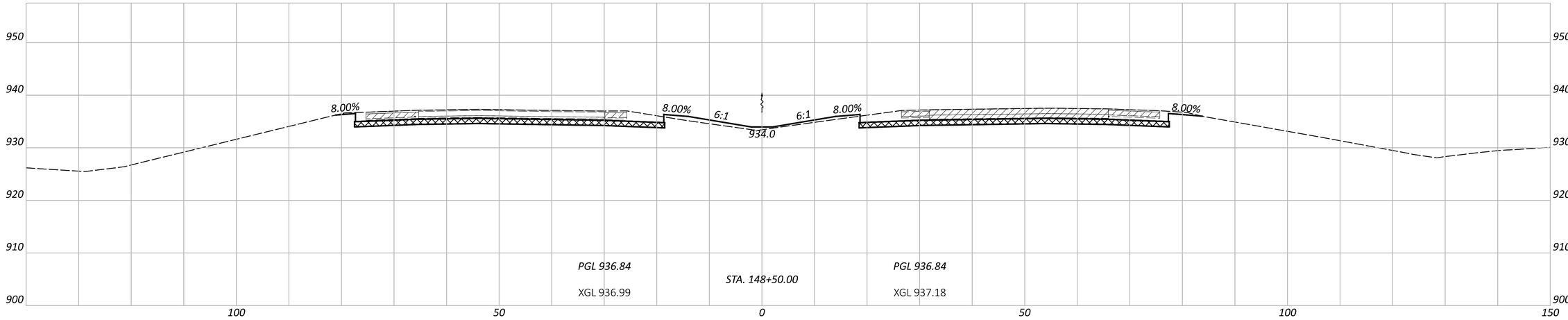

CROSS SECTIONS - IR 70
STA 148+50.00 TO STA 149+50.00

FRA-70-00.00

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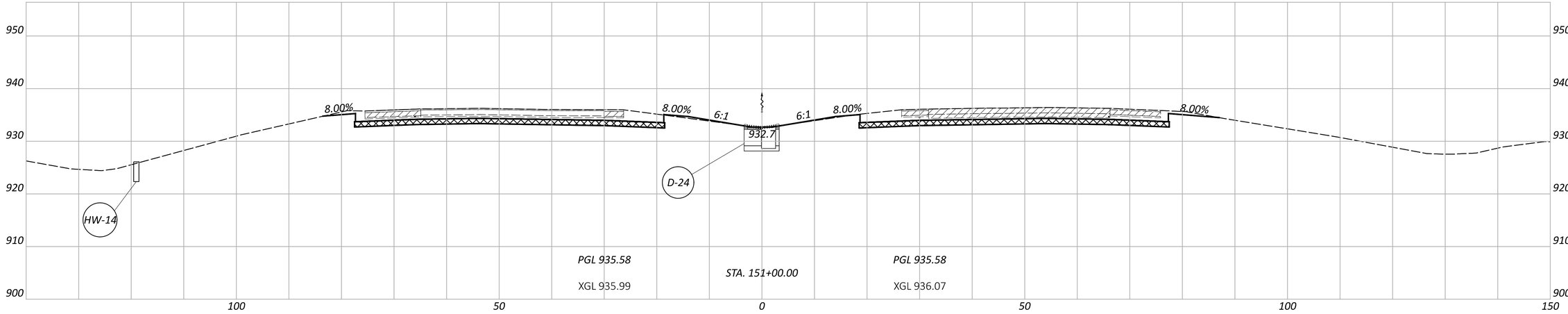
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

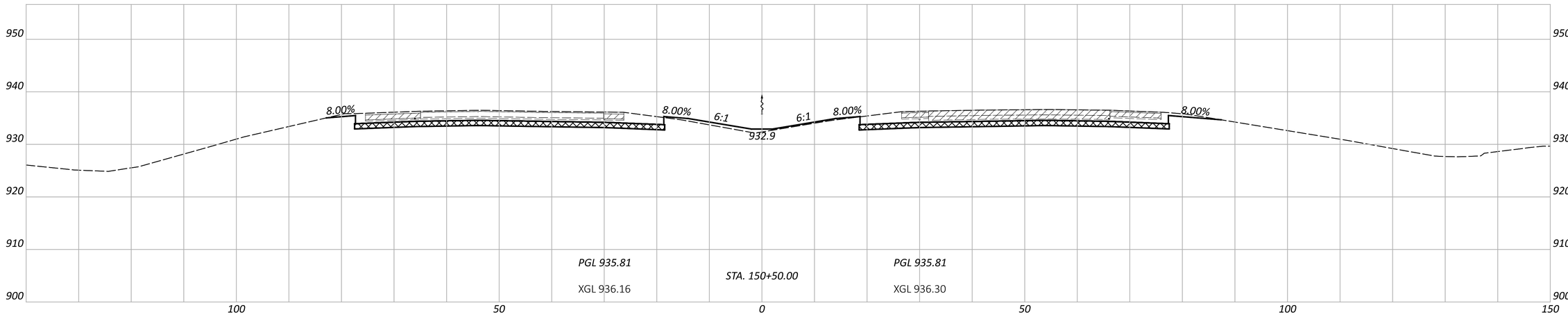
DESIGNER
ARM

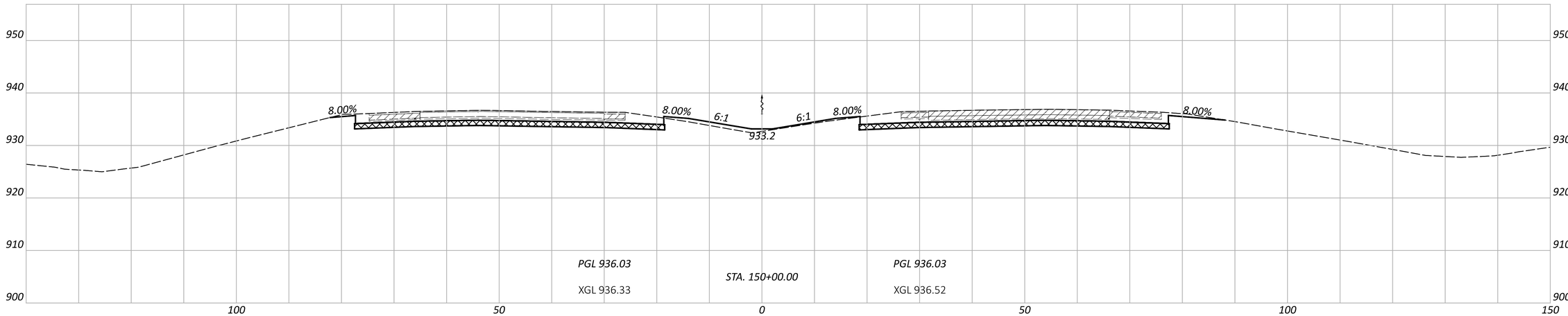
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.325 TOTAL 577







CROSS SECTIONS - IR 70
STA 150+00.00 TO STA 151+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.326 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 150+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:29:04 PM USER: AMerrill
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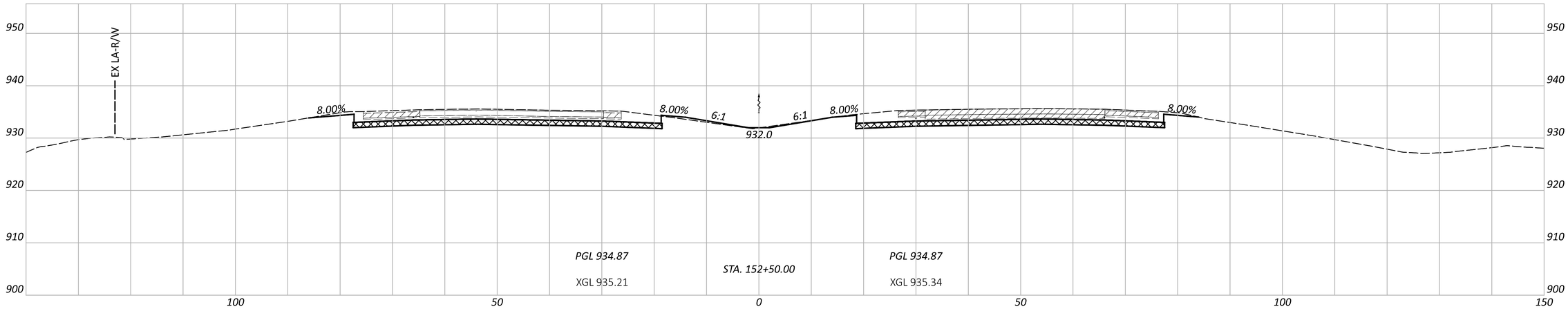

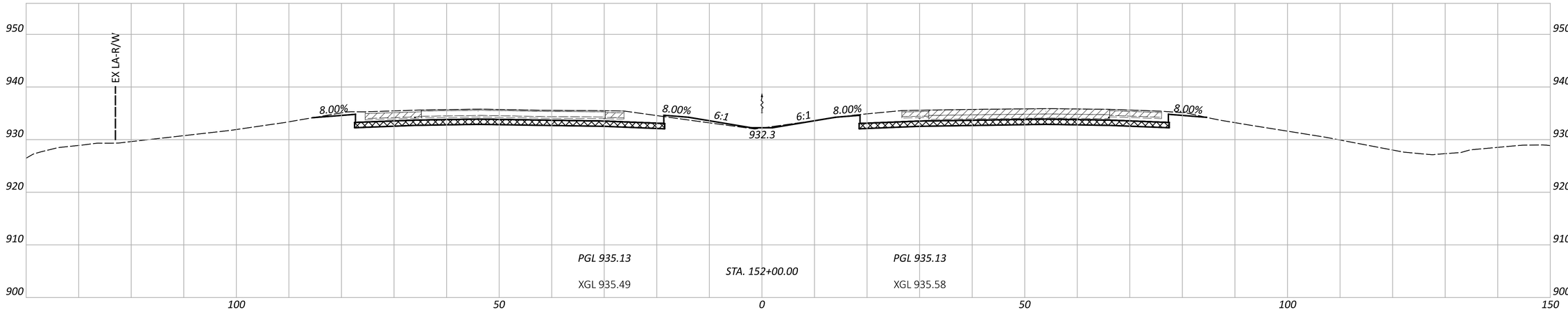

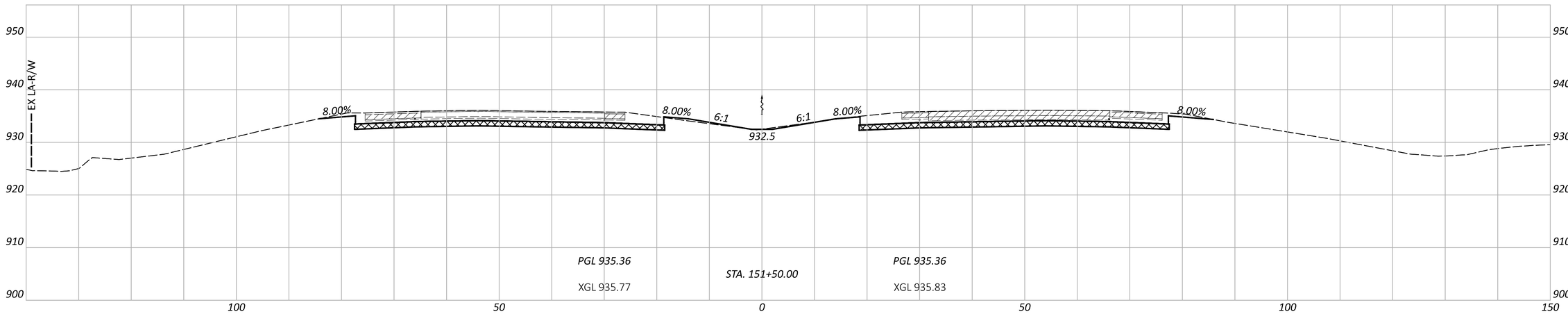

CROSS SECTIONS - IR 70
STA 151+50.00 TO STA 152+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.327 TOTAL 577

FRA-70-00.00

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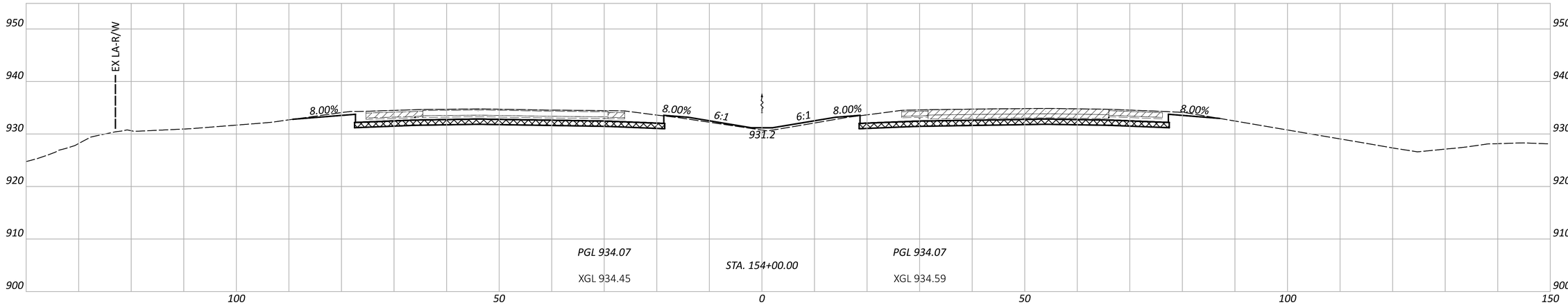

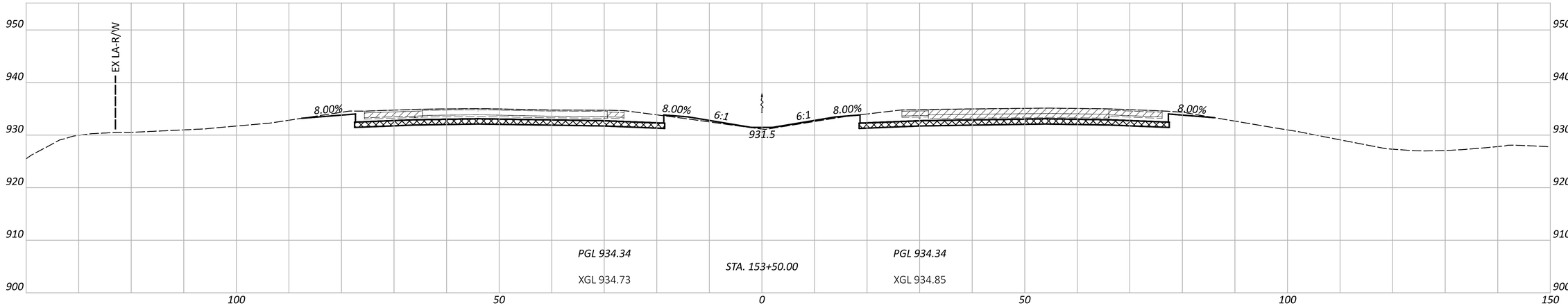

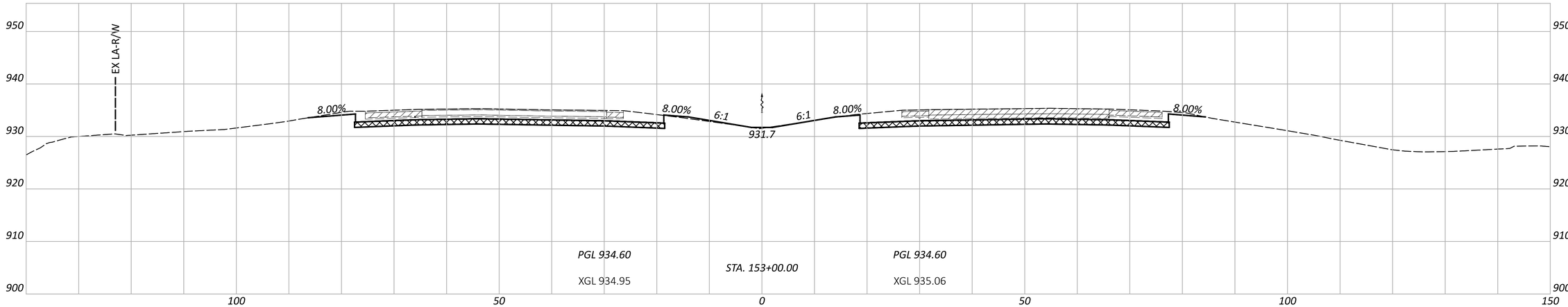

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 153+00.00 TO STA 154+00.00

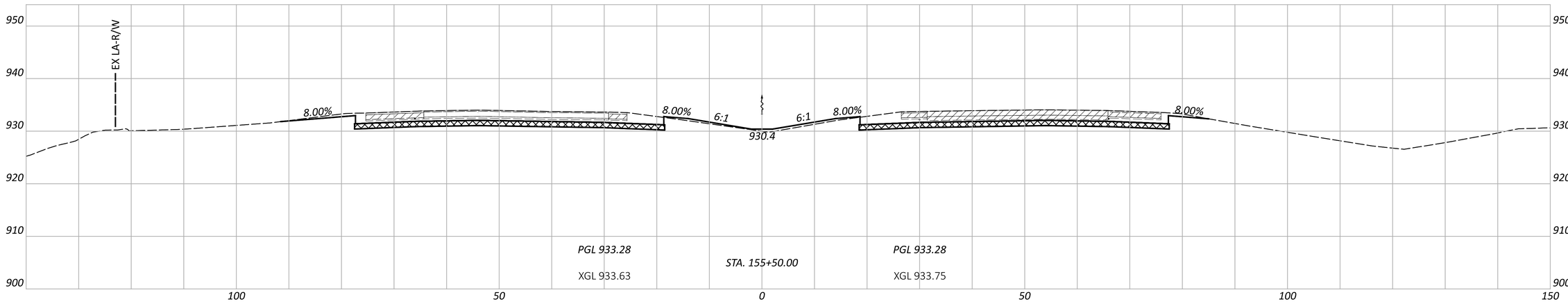
DESIGN AGENCY
STRUCTUREPOINT LLC

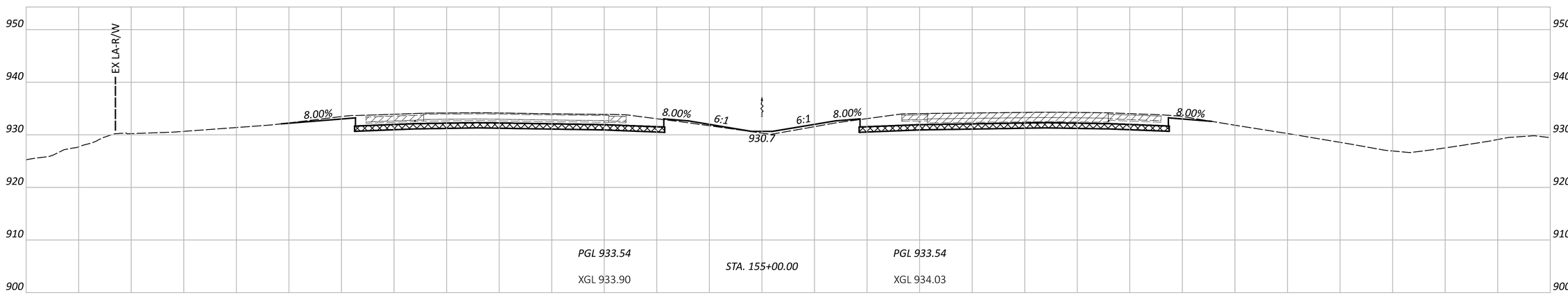
DESIGNER
ARM

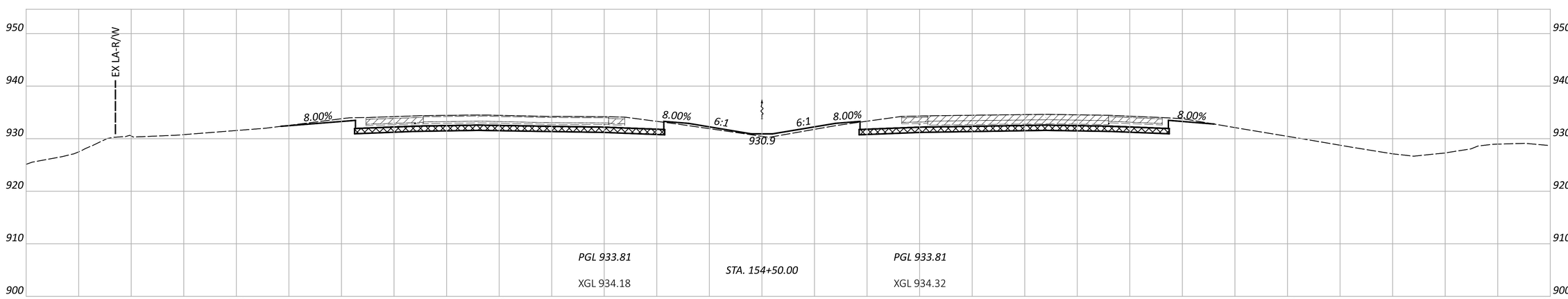
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.328 TOTAL 577







CROSS SECTIONS - IR 70
STA 154+50.00 TO STA 155+50.00

FRA-70-00.00

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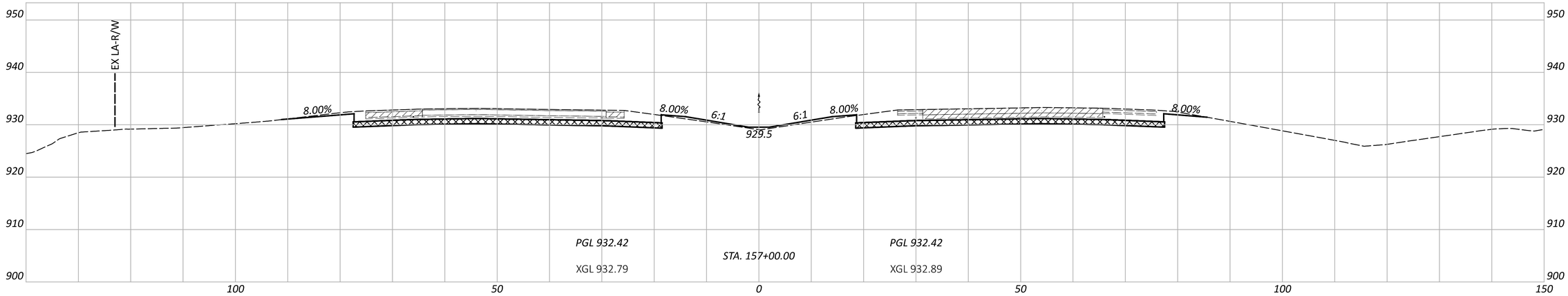
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

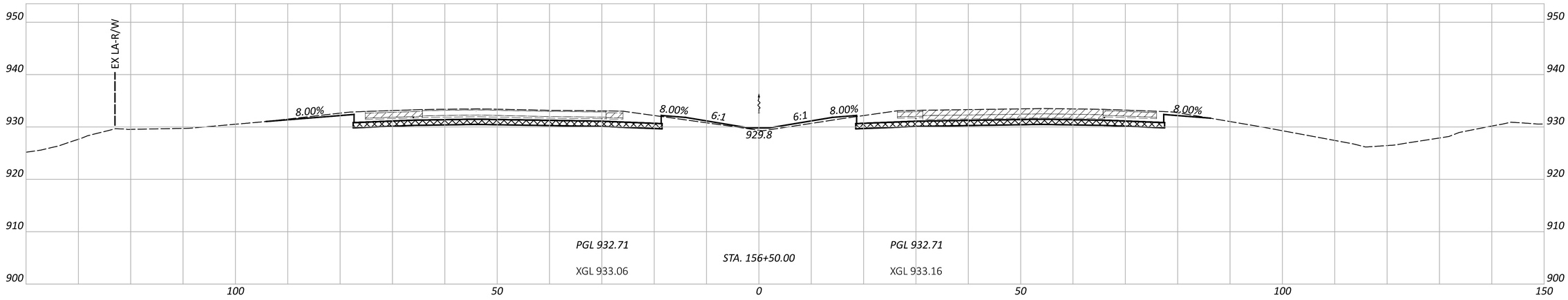
DESIGNER
ARM

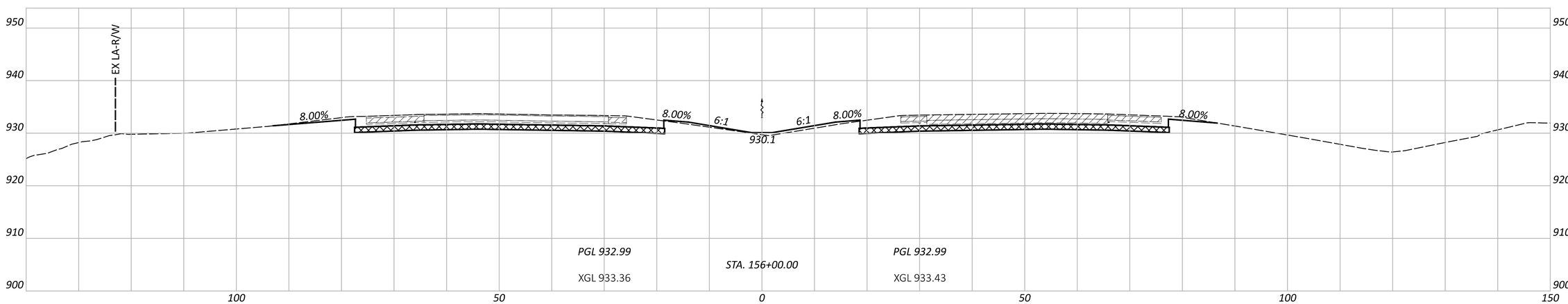
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.329 | TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 156+00.00 TO STA 157+00.00

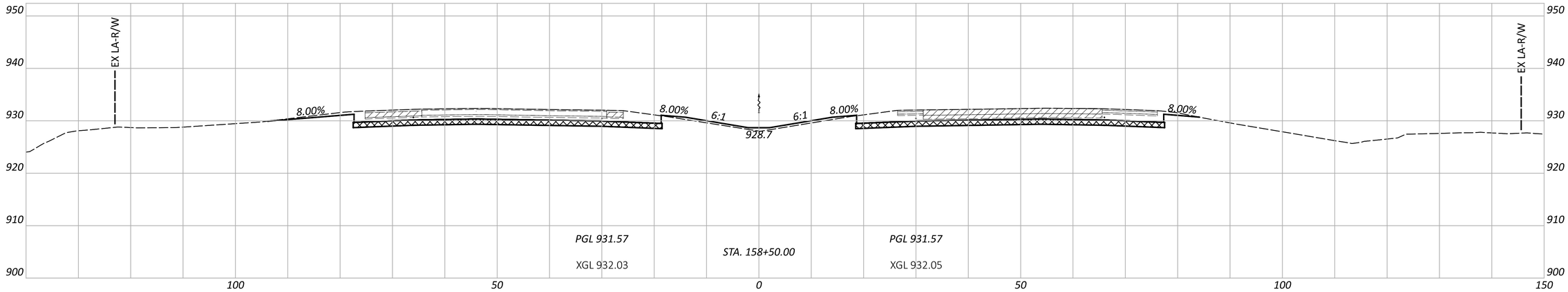
DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

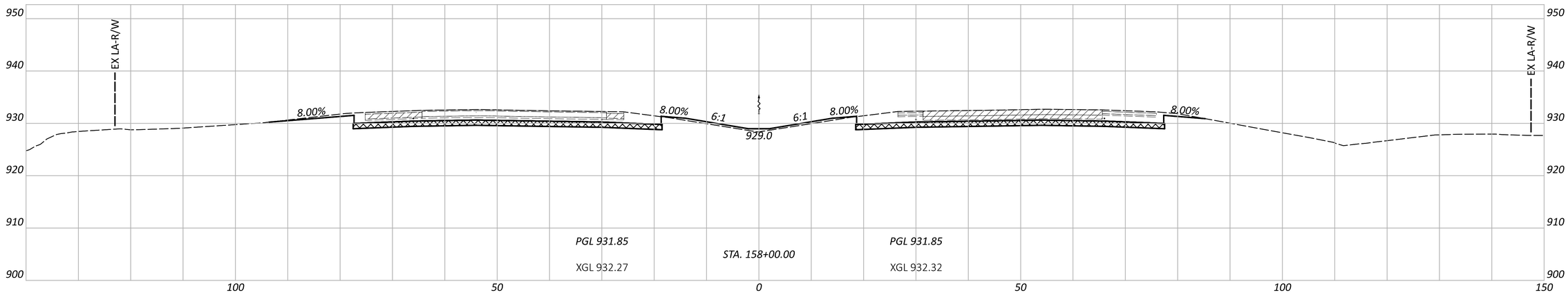
DESIGNER
ARM

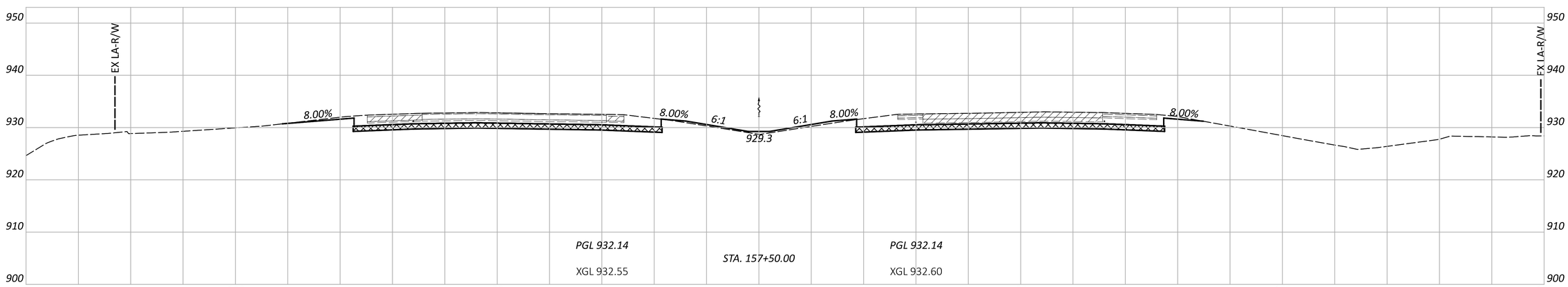
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.330 | TOTAL 577







FRA-70-00.00

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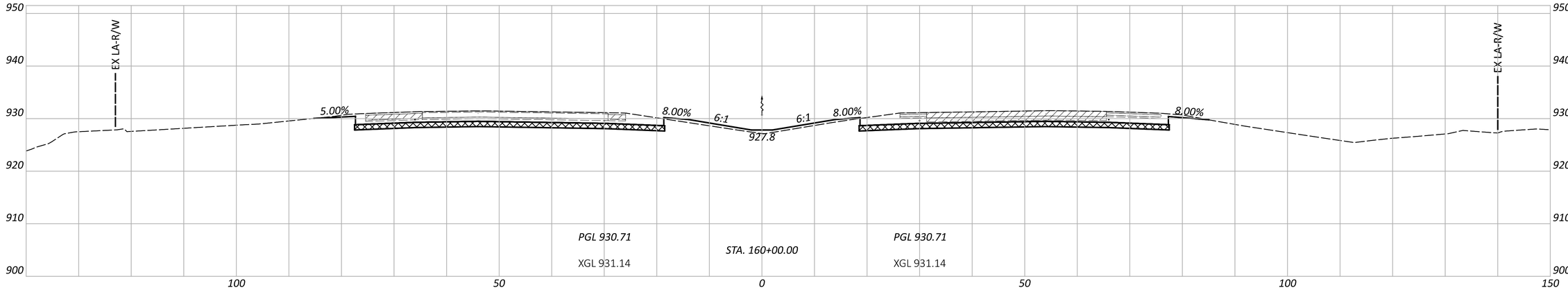
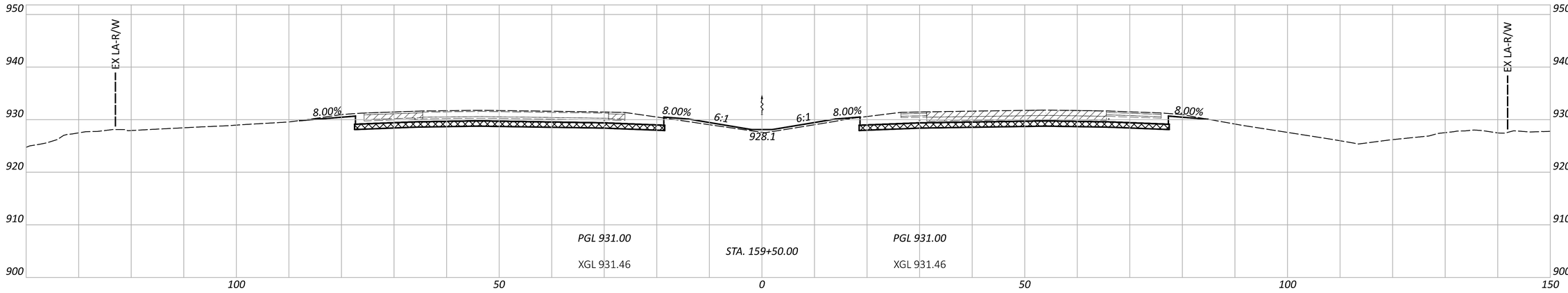
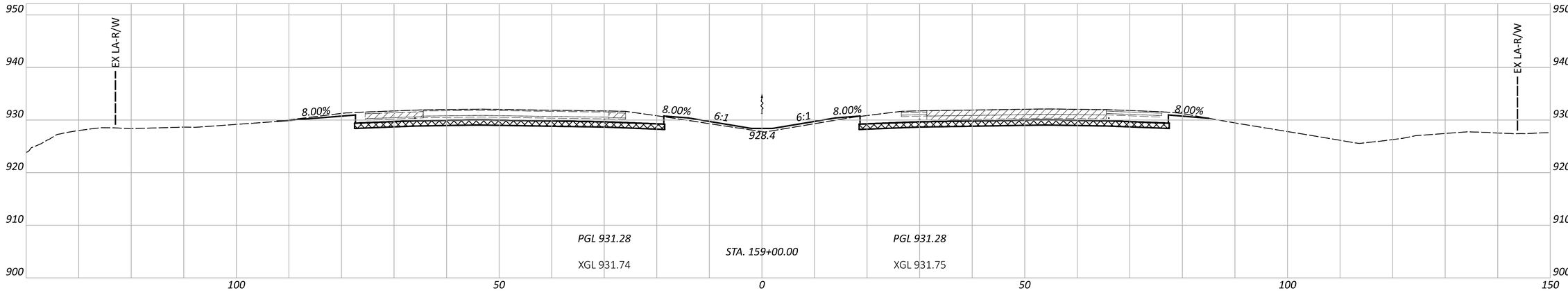
CROSS SECTIONS - IR 70
STA 157+50.00 TO STA 158+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.331
TOTAL	577







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CROSS SECTIONS - IR 70
STA 159+00.00 TO STA 160+00.00

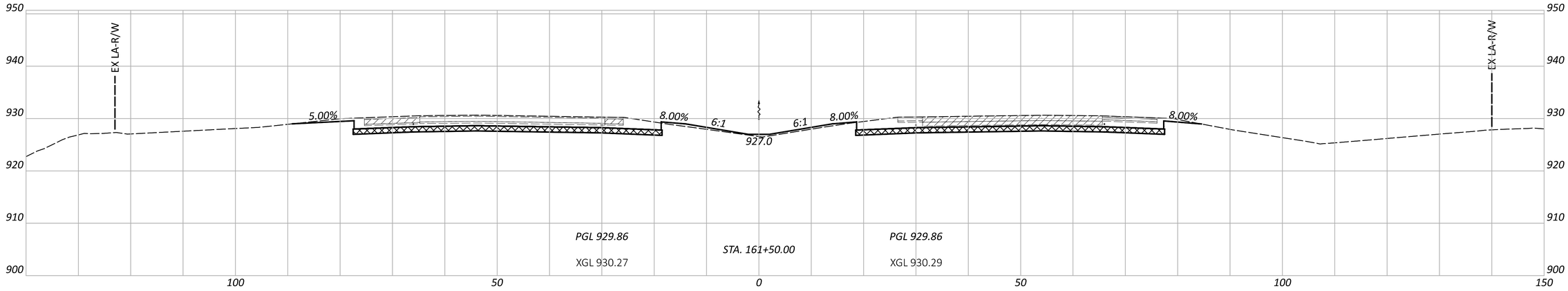
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

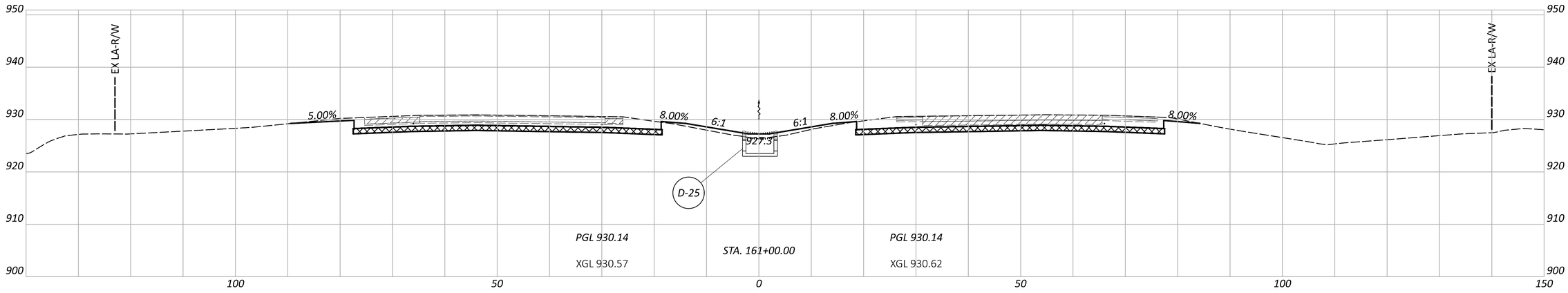
DESIGNER
ARM

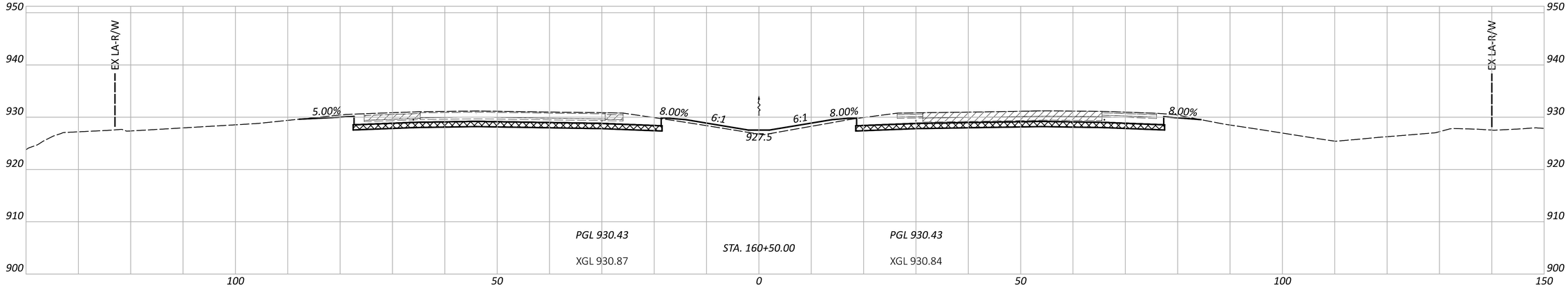
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.332 | TOTAL 577







CROSS SECTIONS - IR 70
STA 160+50.00 TO STA 161+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.333 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 160+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:29:58 PM USER: AMerrill
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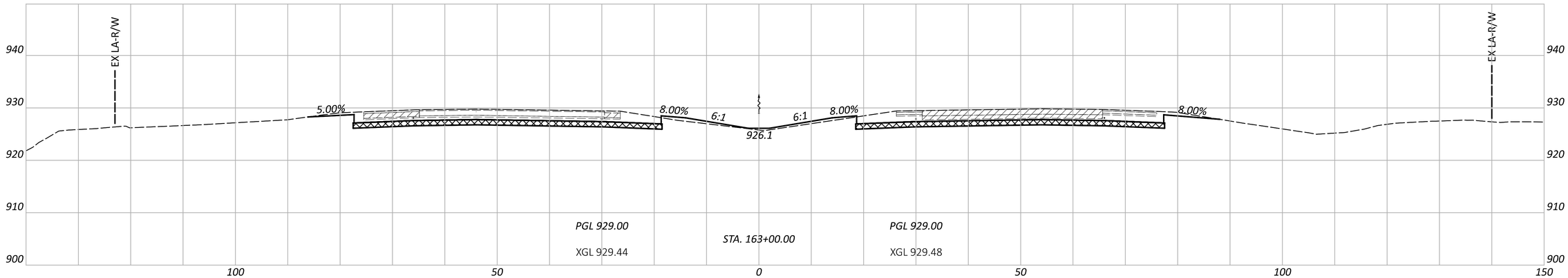

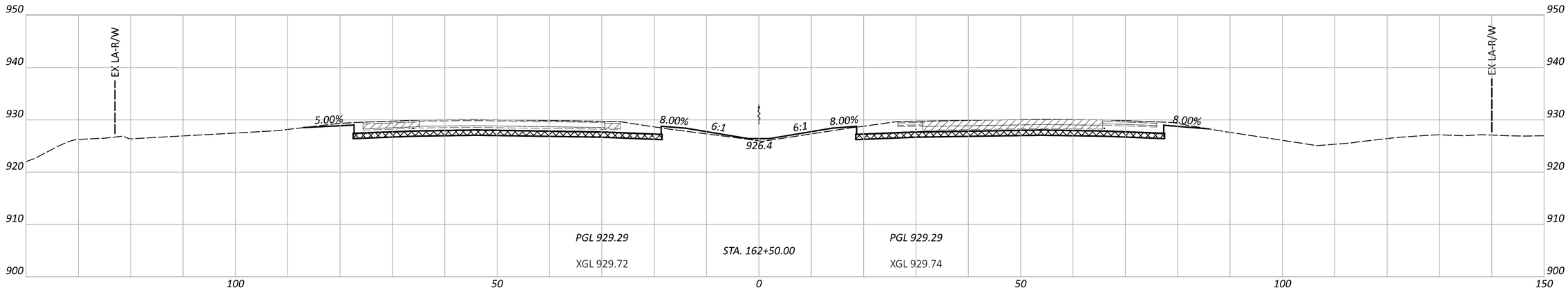

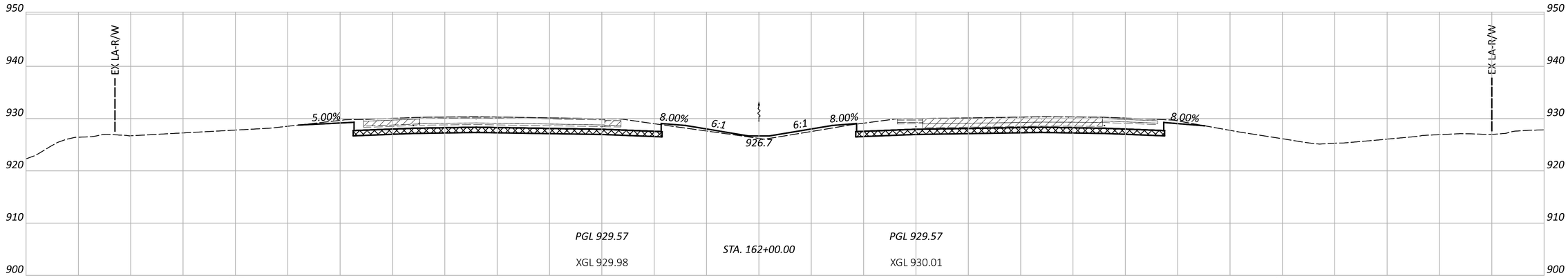

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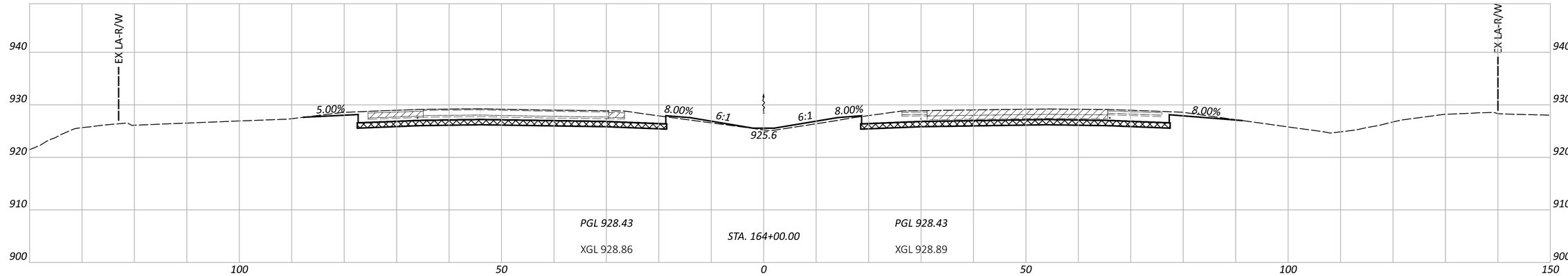
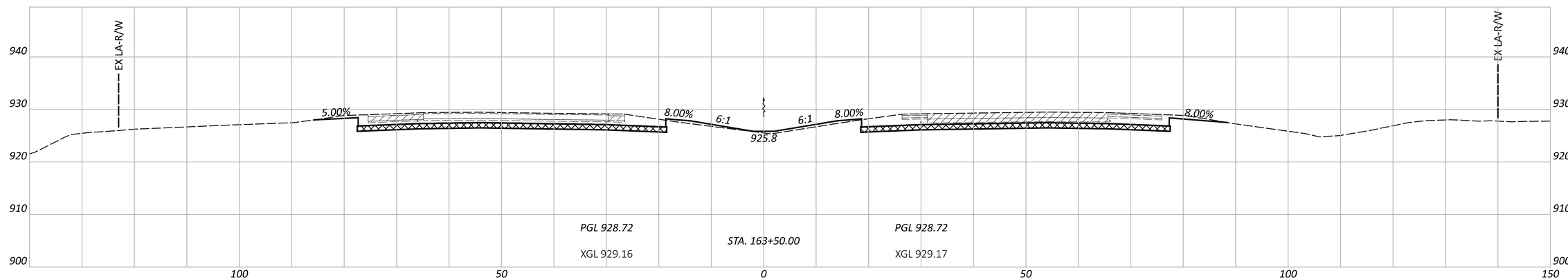
CROSS SECTIONS - IR 70
STA 162+00.00 TO STA 163+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.334
TOTAL	577





CROSS SECTIONS - IR 70
STA 163+50.00 TO STA 164+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.335 TOTAL 577

FRA-70-00.00

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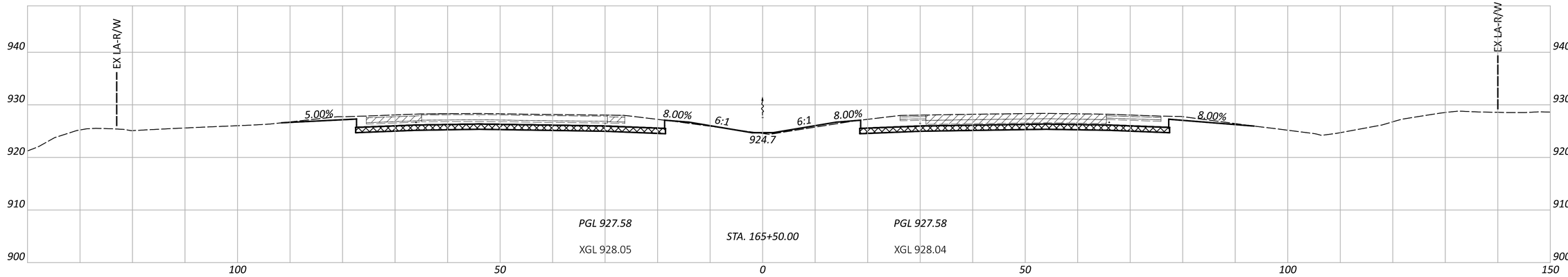

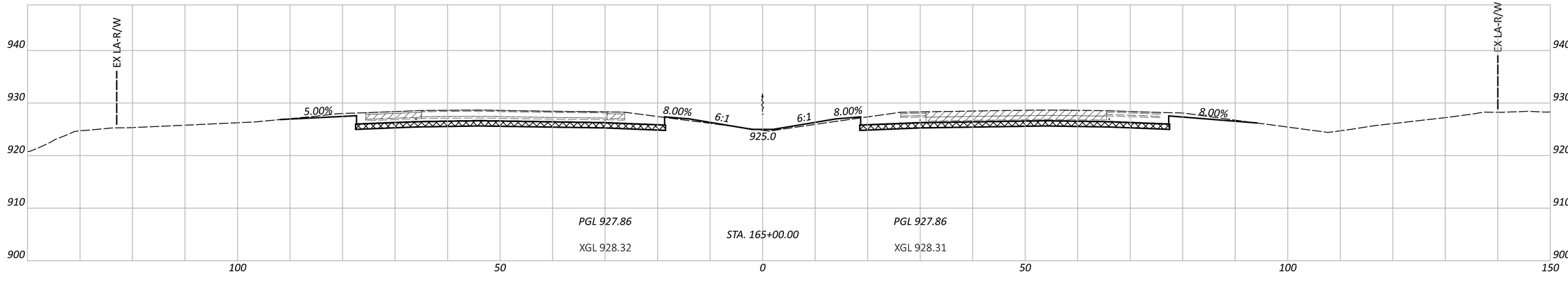

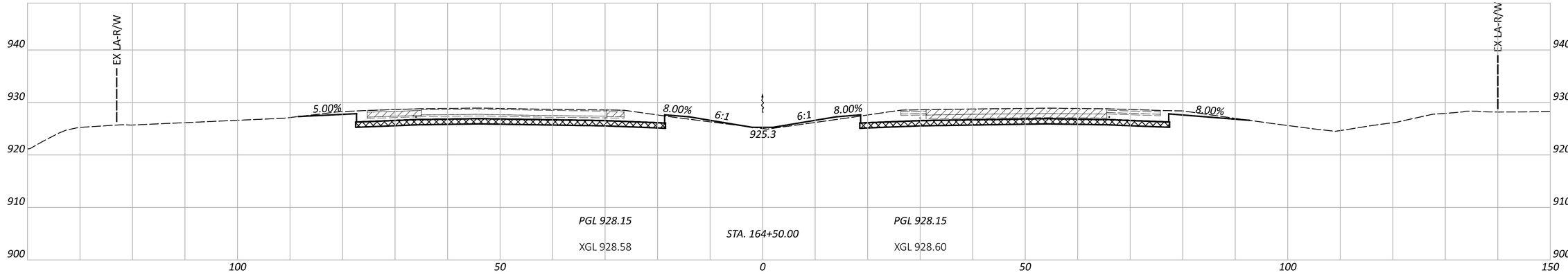

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 164+50.00 TO STA 165+50.00

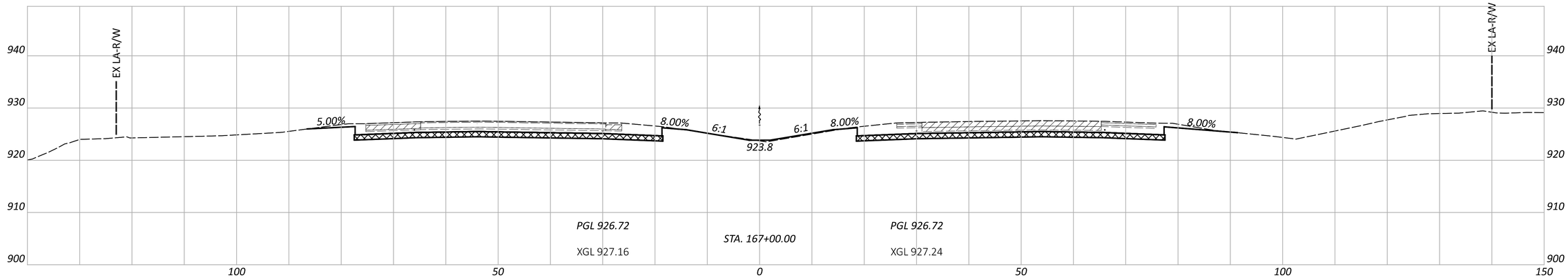
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

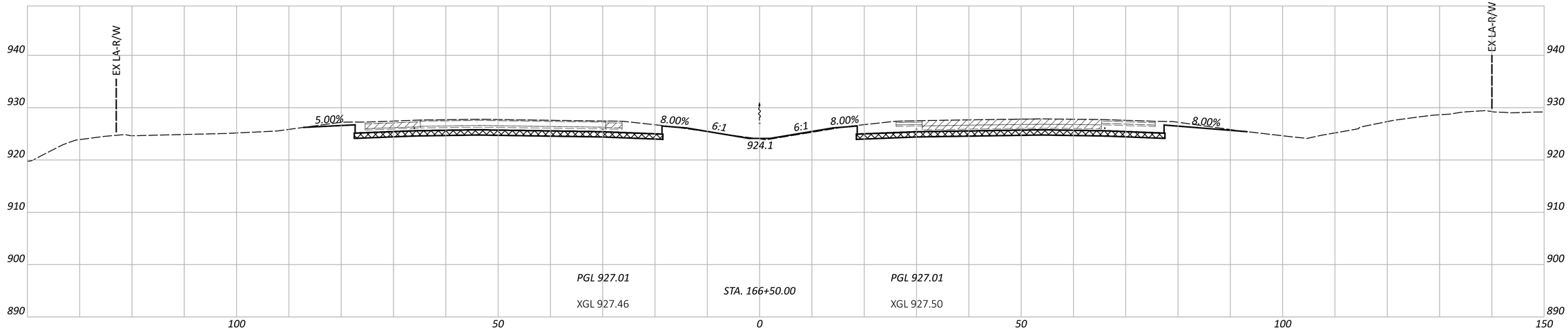
DESIGNER
ARM

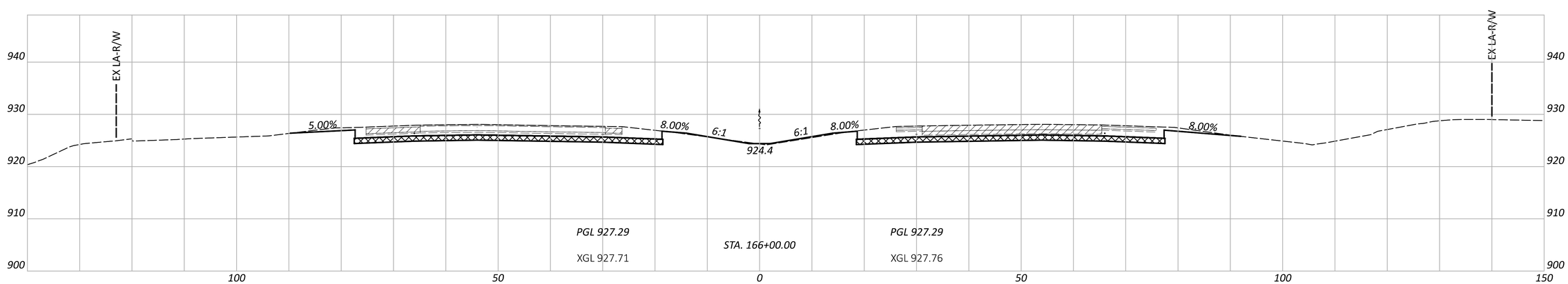
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.336 TOTAL 577







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CROSS SECTIONS - IR 70
STA 166+00.00 TO STA 167+00.00

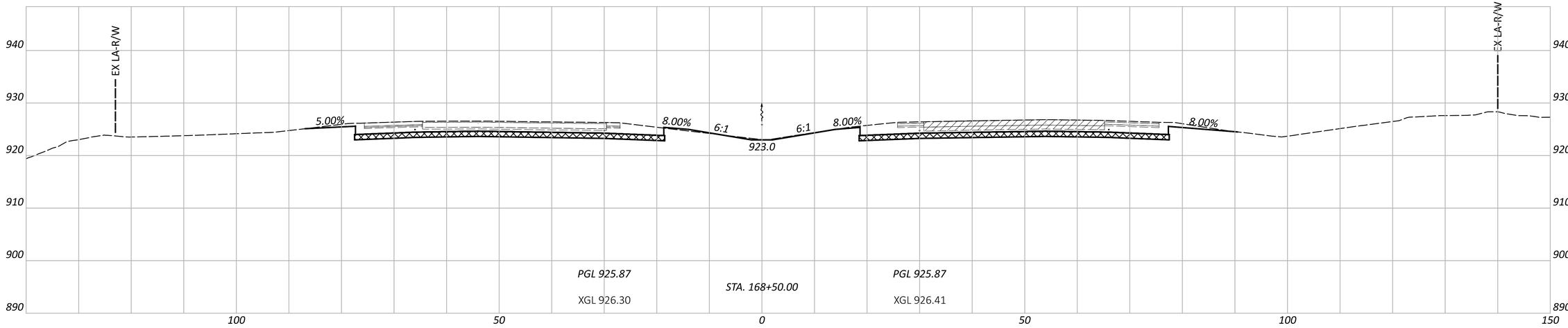
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

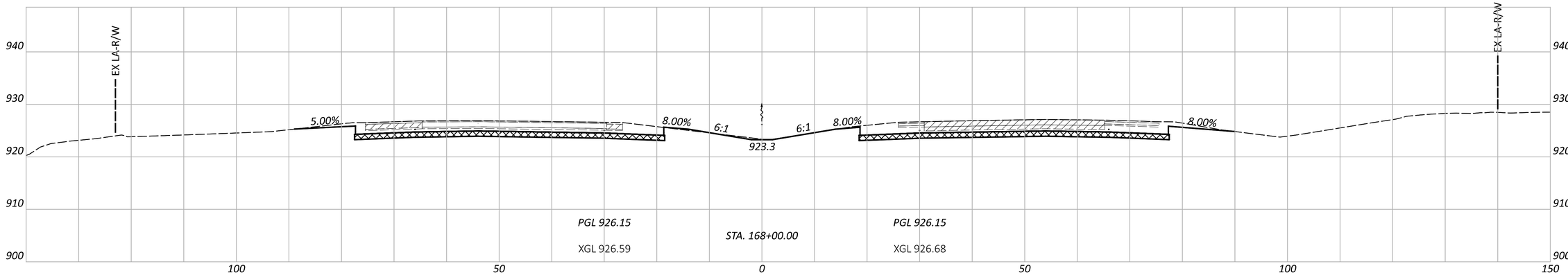
DESIGNER
ARM

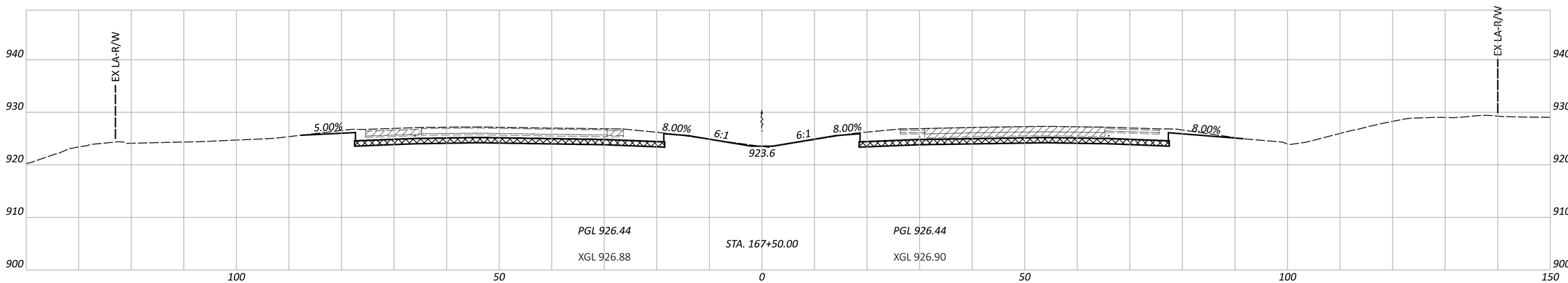
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.337 TOTAL 577







CROSS SECTIONS - IR 70
STA 167+50.00 TO STA 168+50.00

FRA-70-00.00

MODEL: CLP_I070 - 167+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:30:38 PM USER: AMerrill
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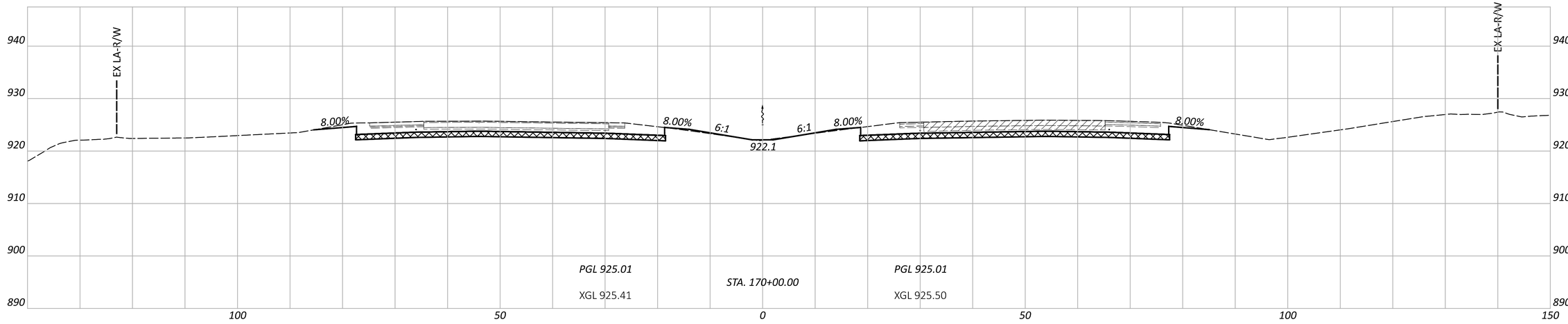
DESIGN AGENCY
STRUCTUREPOINT LLC

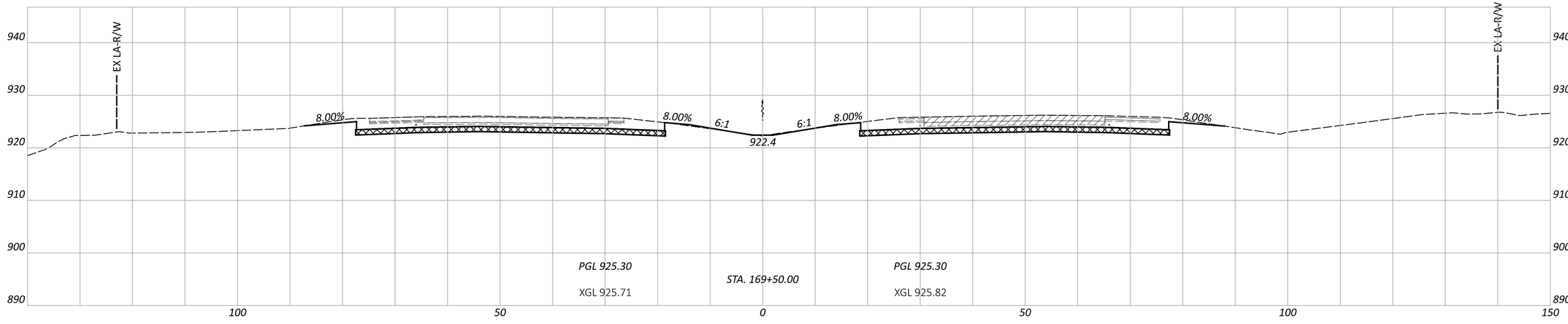
DESIGNER
ARM

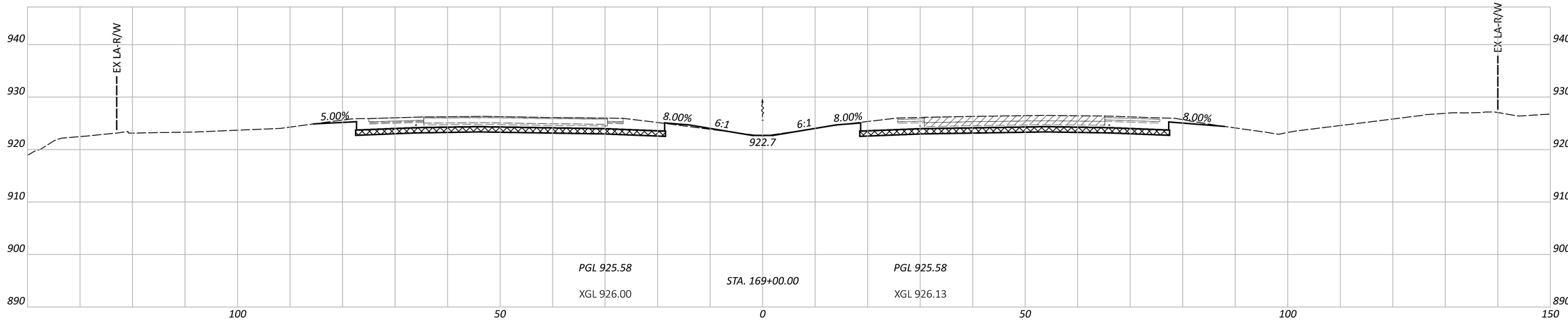
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.338 | TOTAL 577







CROSS SECTIONS - IR 70
STA 169+00.00 TO STA 170+00.00

FRA-70-00.00

MODEL: CLP_I070 - 169+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:30:46 PM USER: AMerrill
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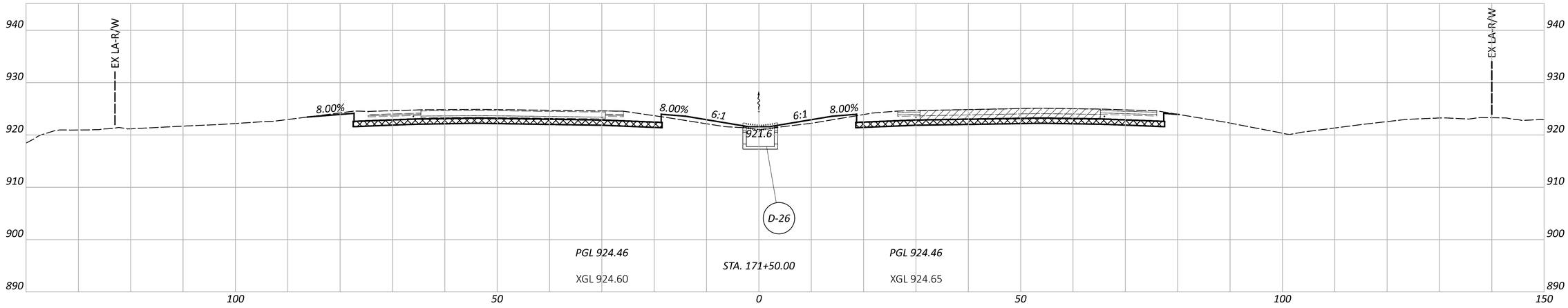
DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

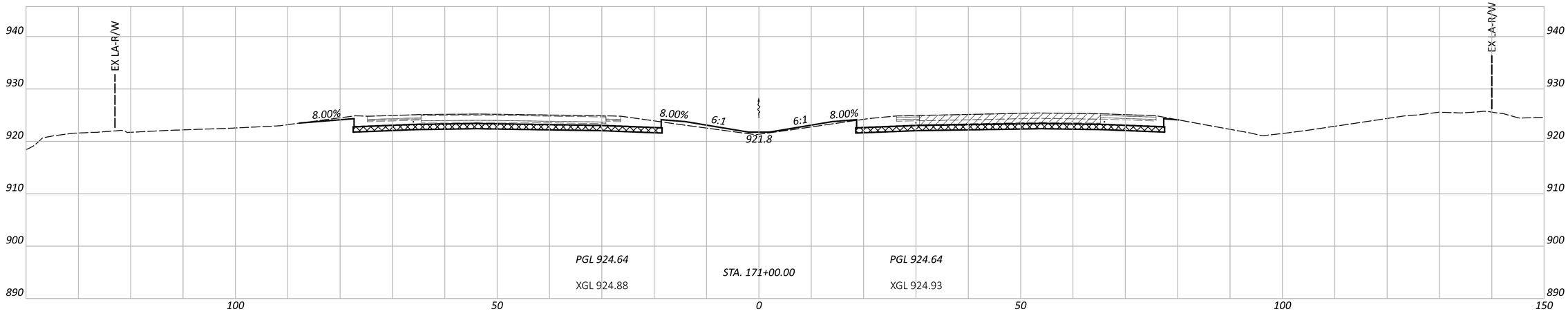
DESIGNER
ARM

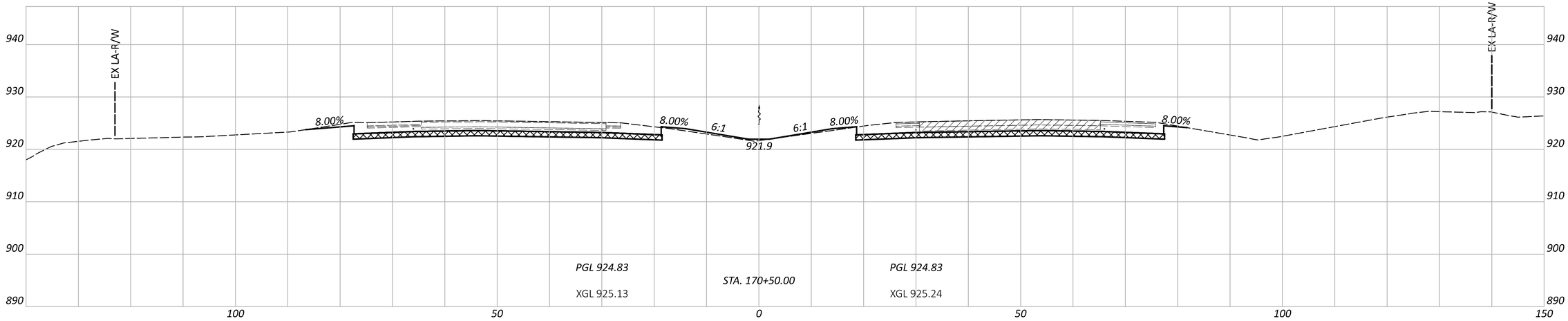
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.339 | TOTAL 577







CROSS SECTIONS - IR 70
STA 170+50.00 TO STA 171+50.00

DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.340 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 170+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:30:53 PM USER: AMerrill
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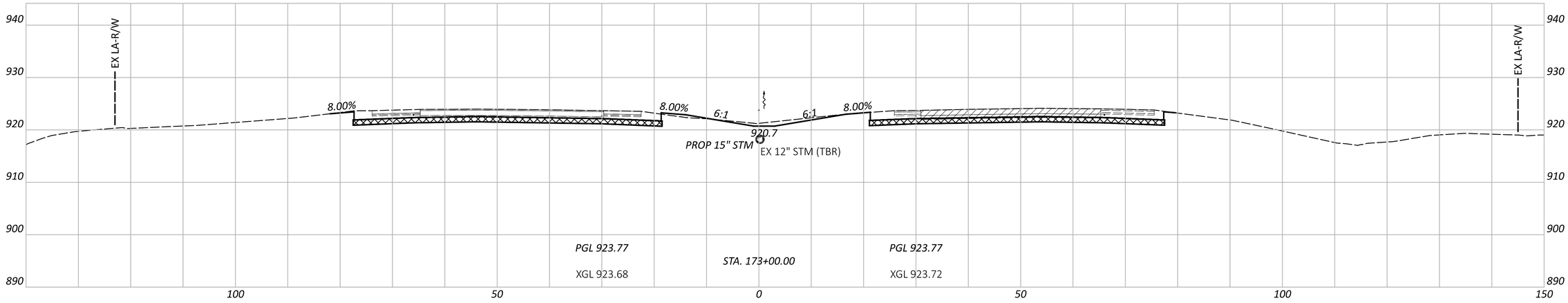

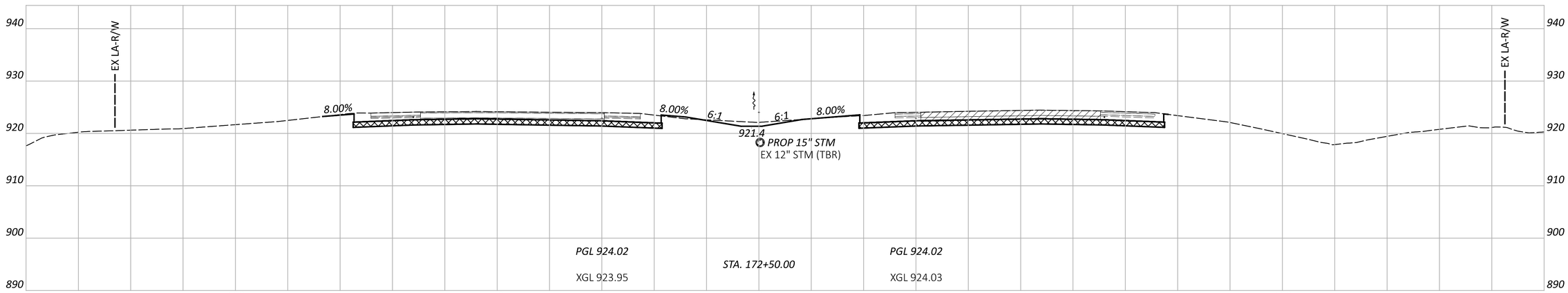

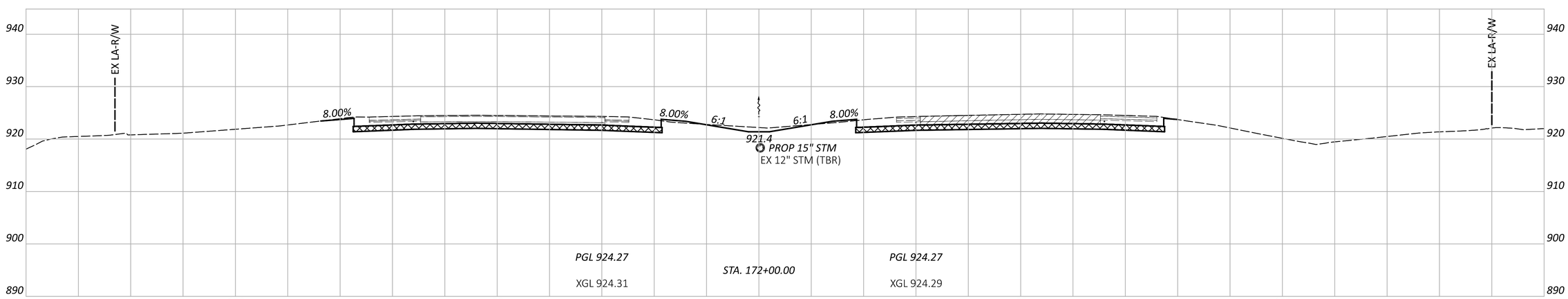

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 172+00.00 TO STA 173+00.00

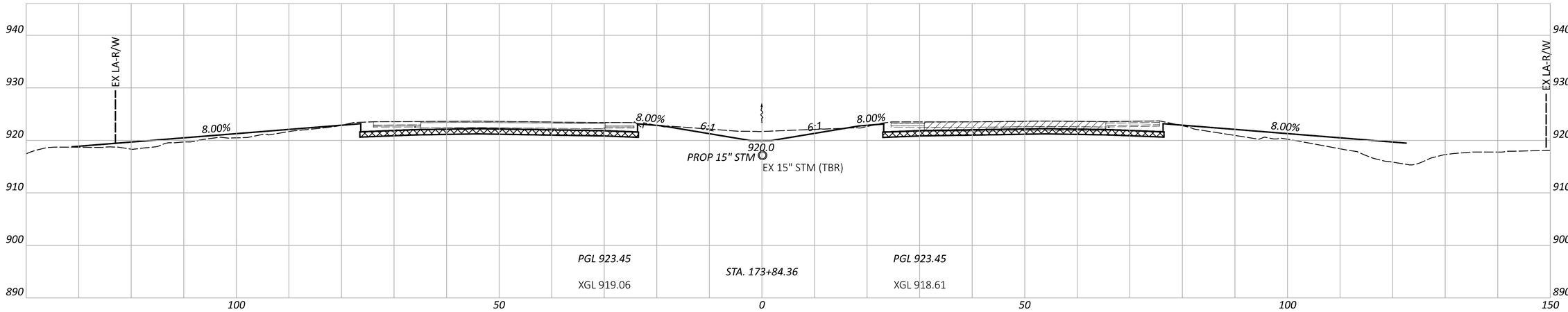
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

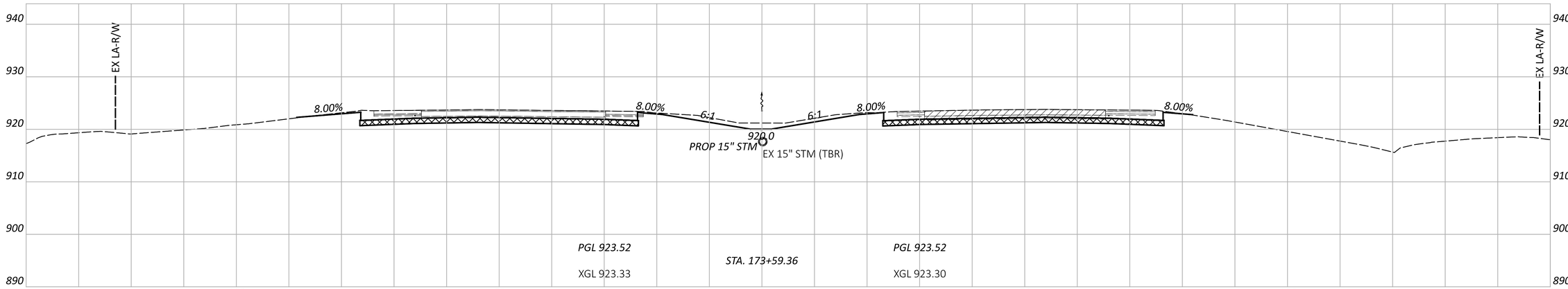
DESIGNER
ARM

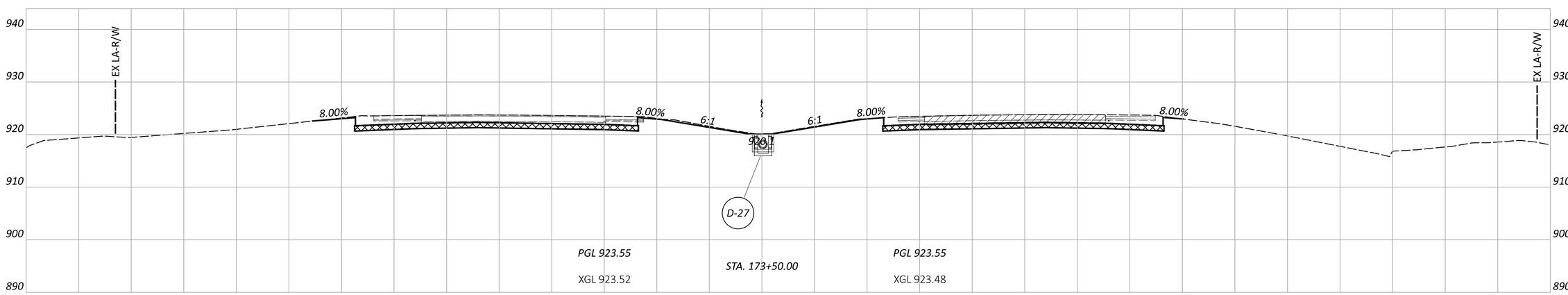
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.341 | TOTAL 577







CROSS SECTIONS - IR 70
STA 173+50.00 TO STA 173+84.36

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.342 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 173+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:31:09 PM USER: AMerrill
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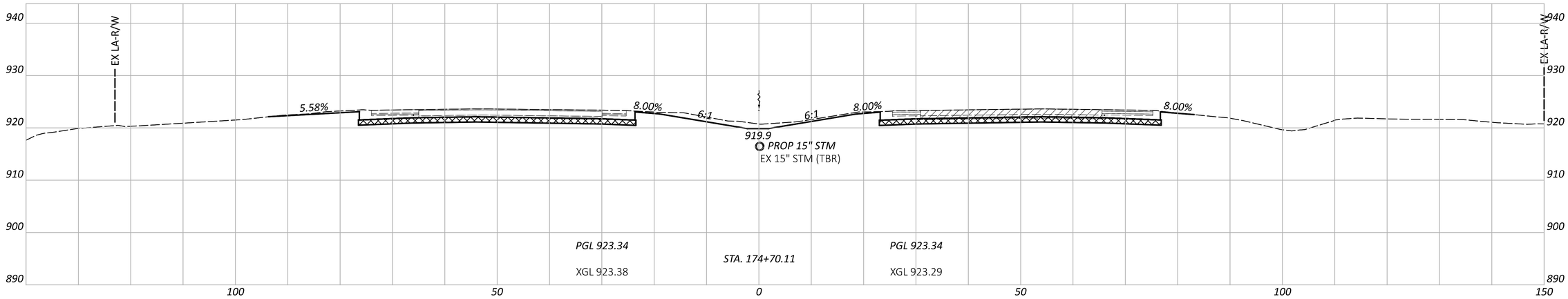

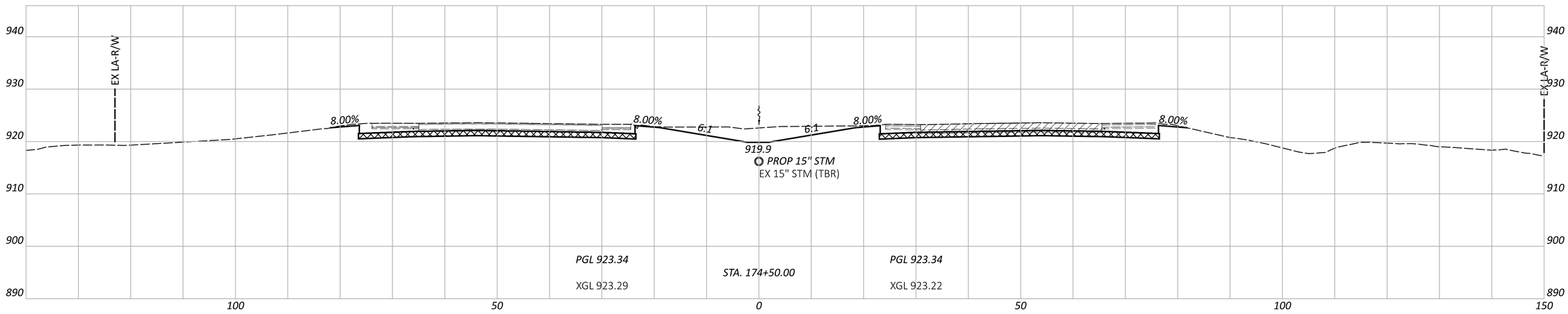

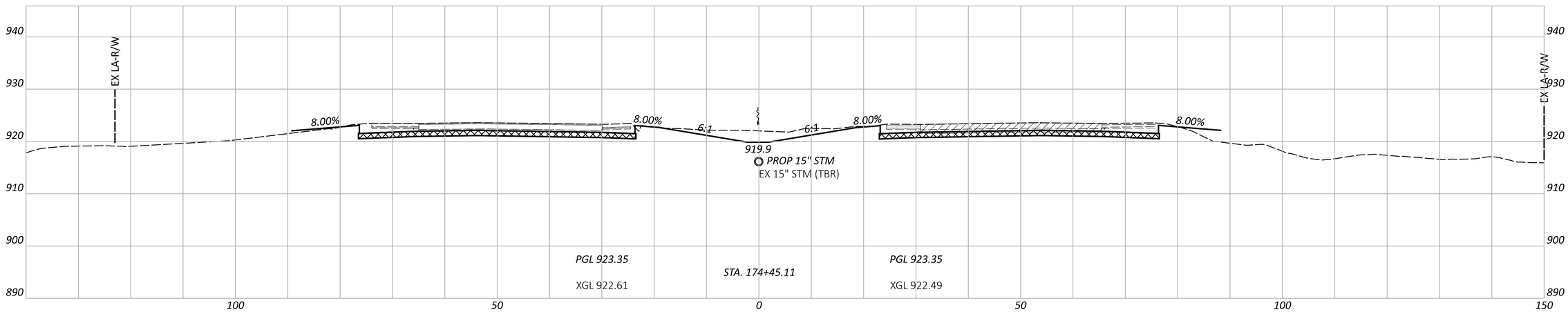

CROSS SECTIONS - IR 70
STA 174+45.11 TO STA 174+70.11

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.343 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 174+45.11 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:31:17 PM USER: AMerrill
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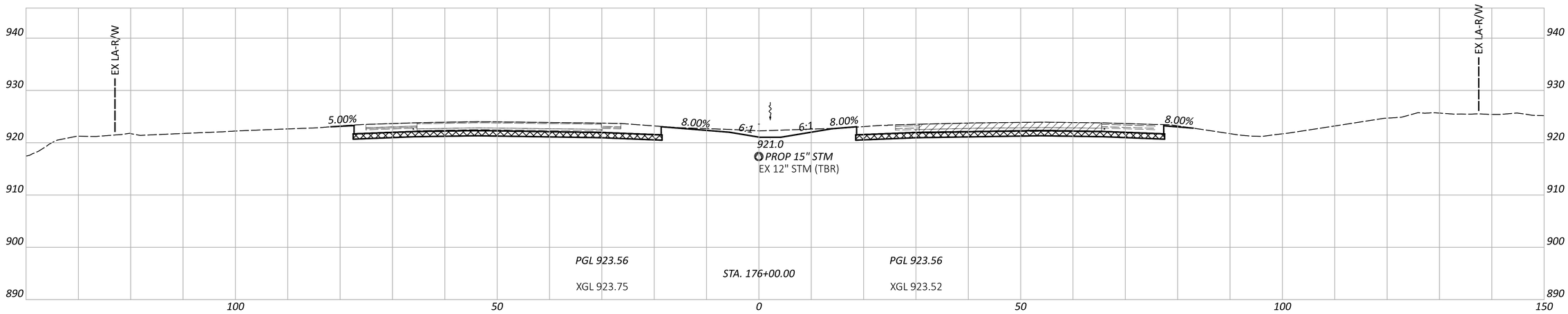

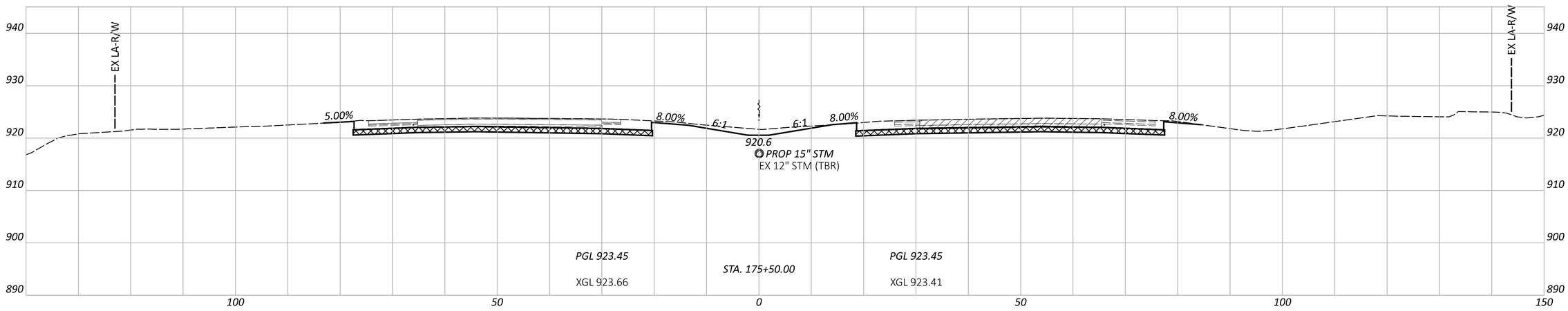

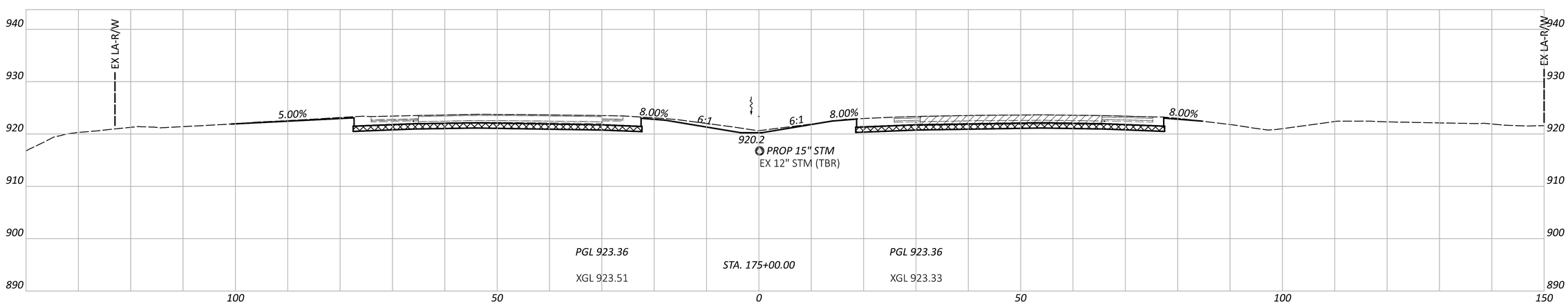

CROSS SECTIONS - IR 70
STA 175+00.00 TO STA 176+00.00

FRA-70-00.00

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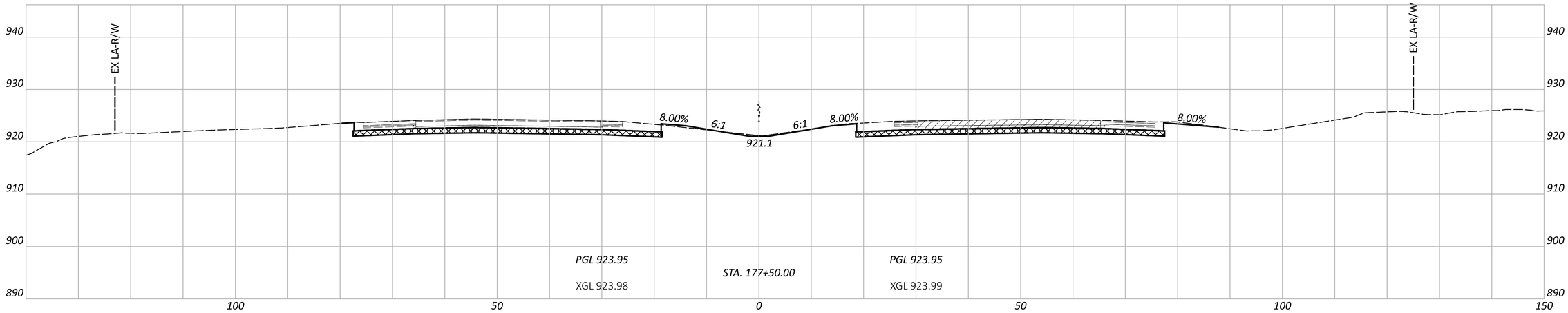
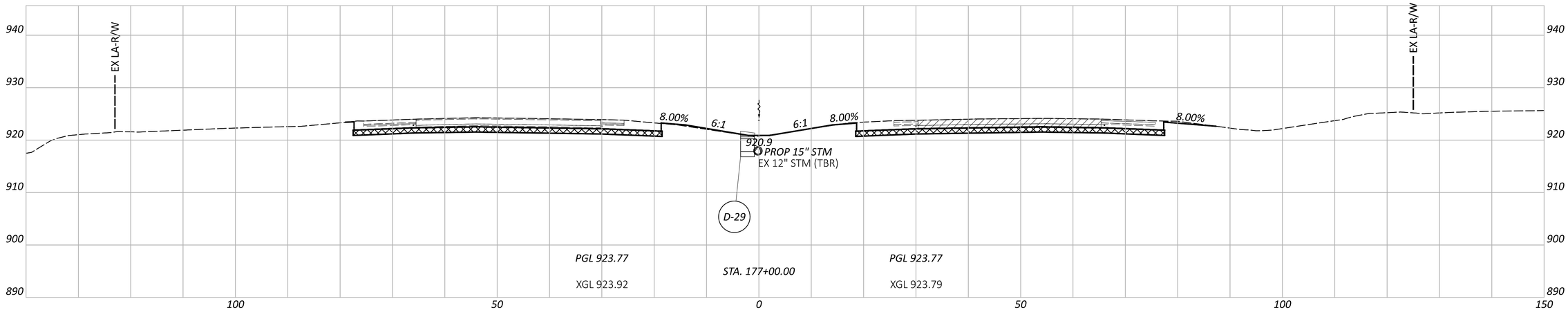
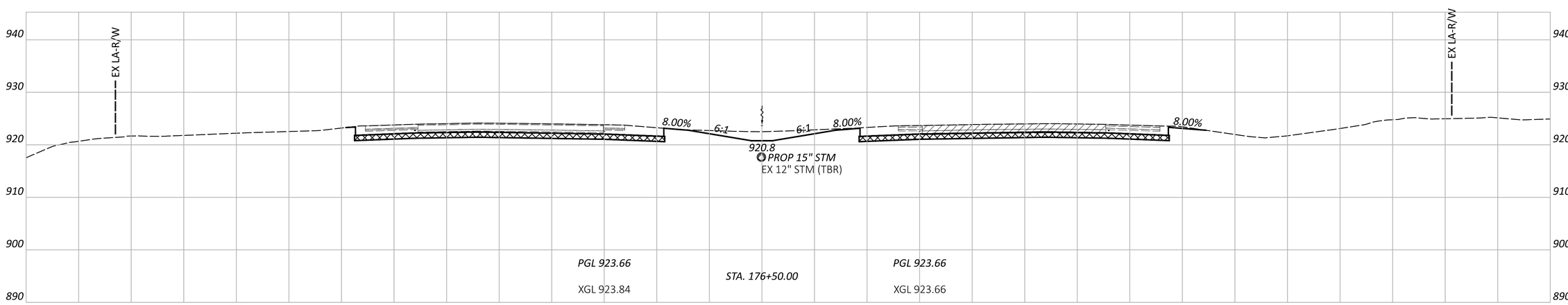
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.344
TOTAL	577







CROSS SECTIONS - IR 70
STA 176+50.00 TO STA 177+50.00

FRA-70-00.00

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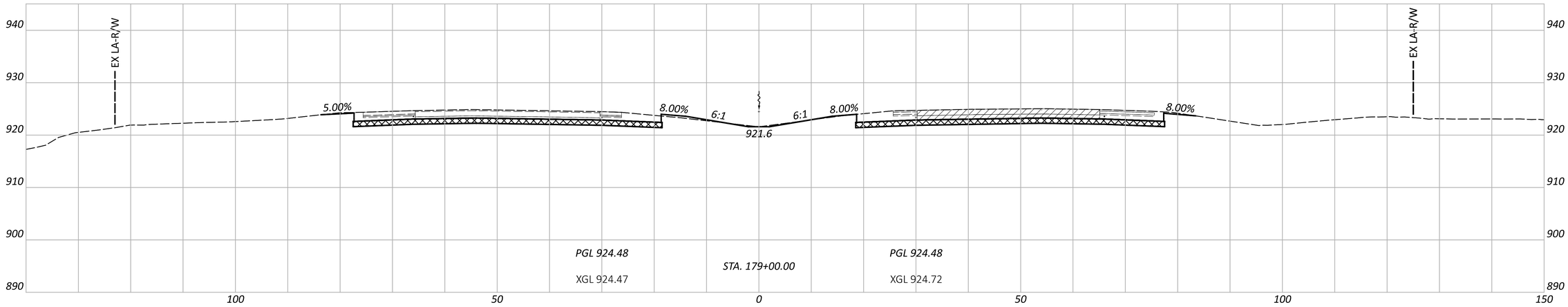
DESIGN AGENCY
STRUCTUREPOINT

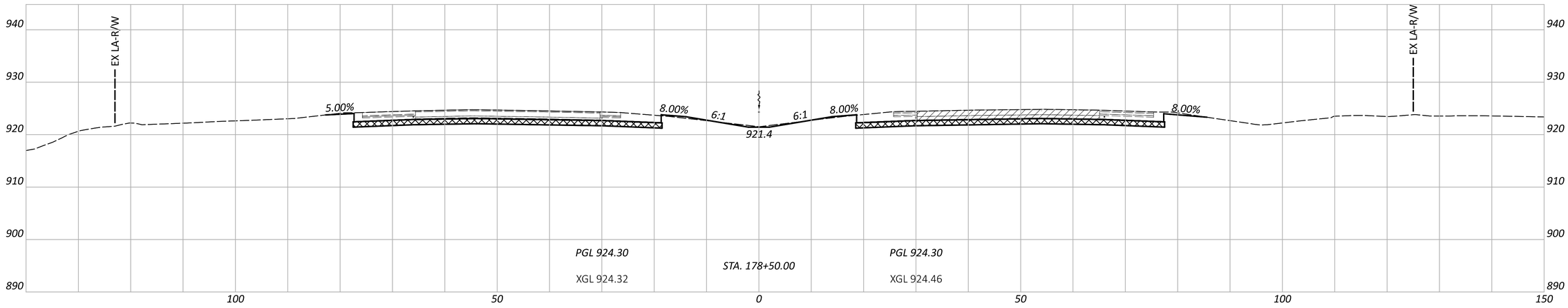
DESIGNER
ARM

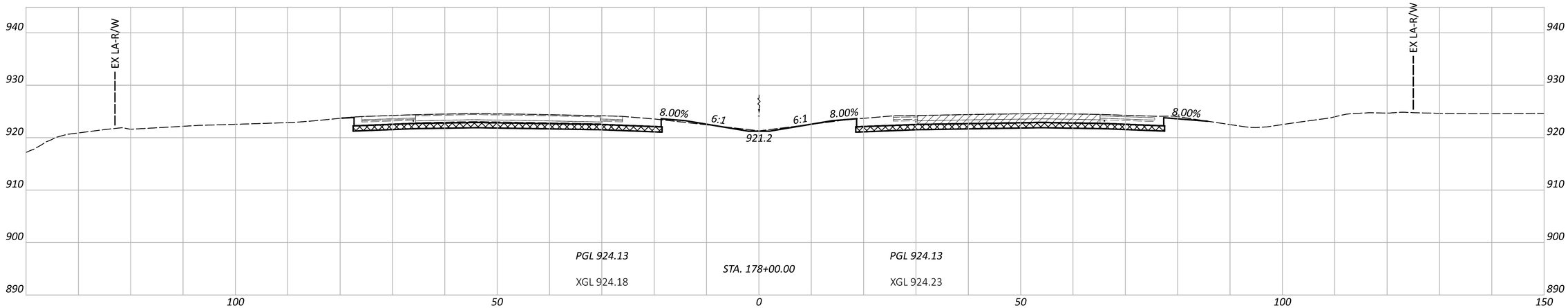
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.345 TOTAL 577







CROSS SECTIONS - IR 70
STA 178+00.00 TO STA 179+00.00

FRA-70-00.00

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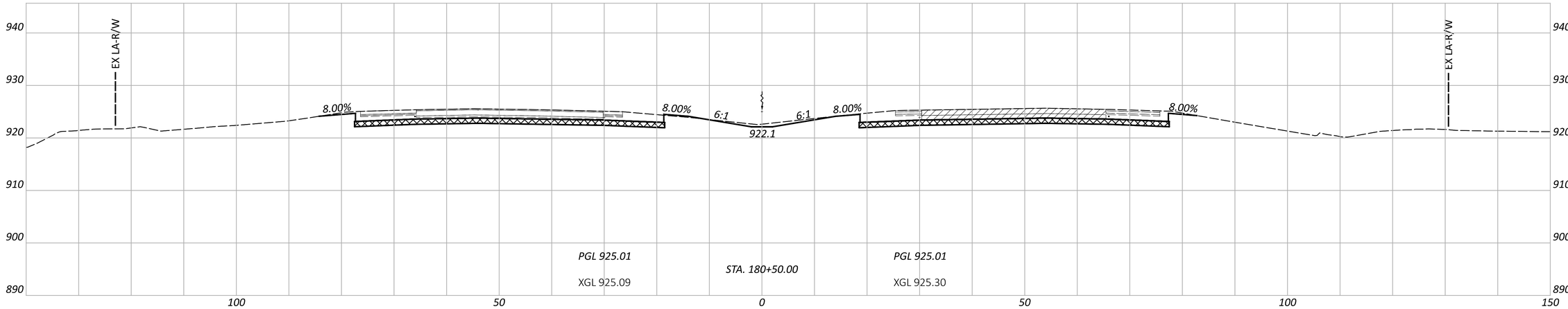
DESIGN AGENCY
STRUCTUREPOINT LLC

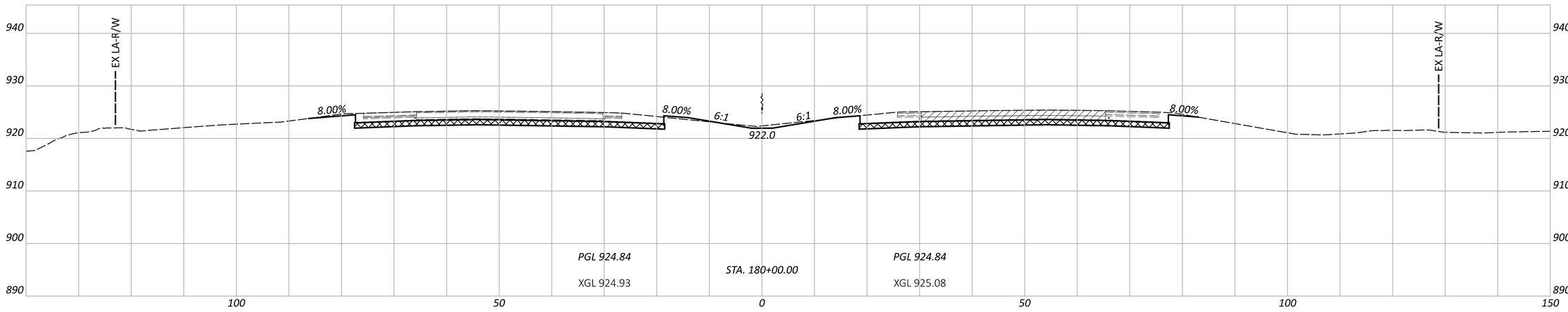
DESIGNER
ARM

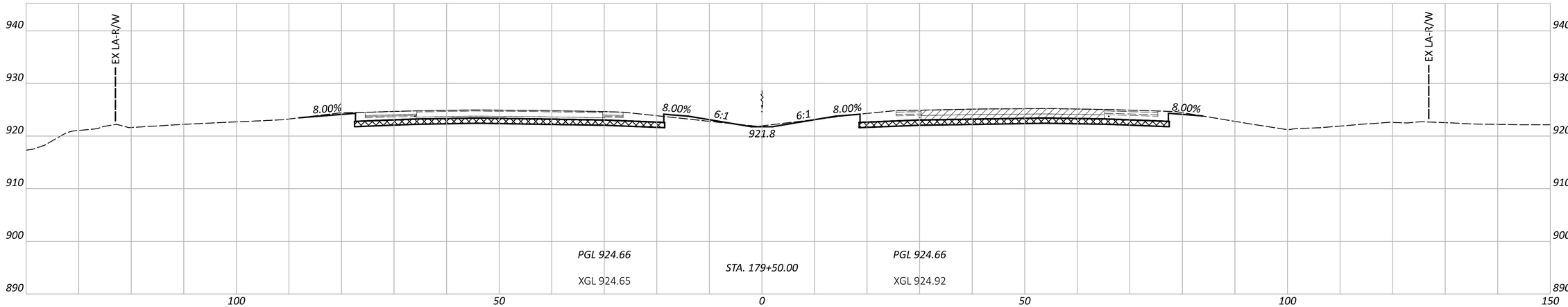
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.346 TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 179+50.00 TO STA 180+50.00

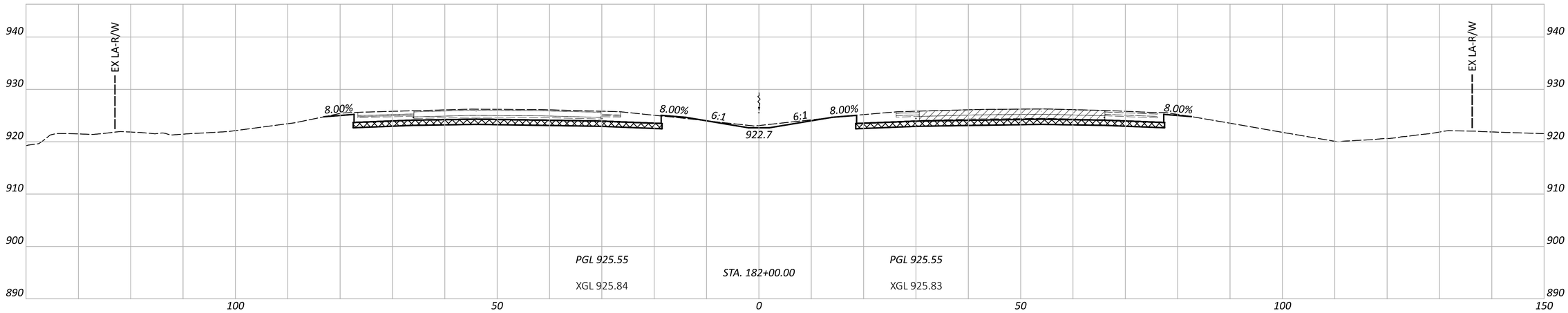
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

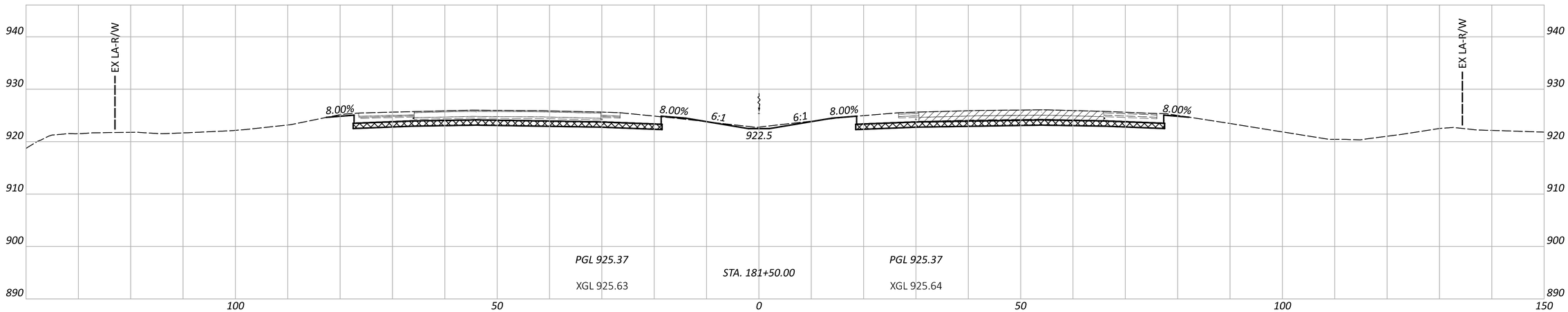
DESIGNER
ARM

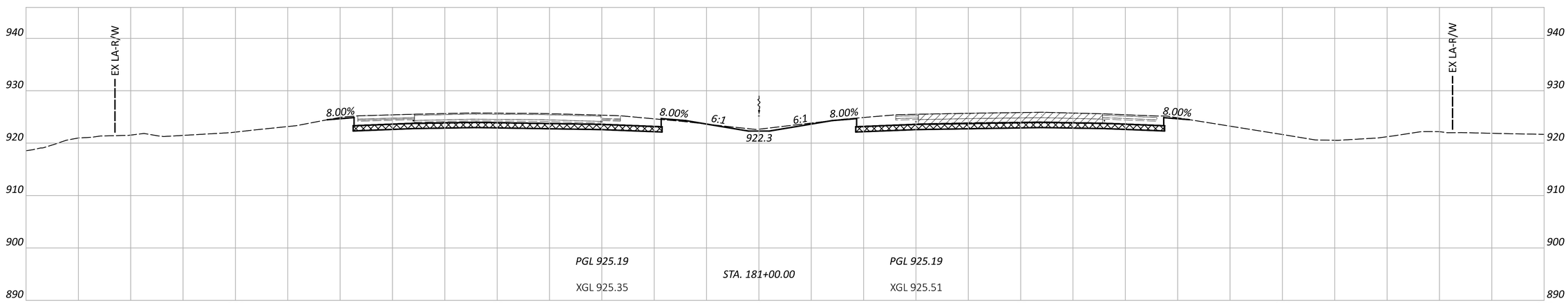
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.347 TOTAL 577







CROSS SECTIONS - IR 70
STA 181+00.00 TO STA 182+00.00

FRA-70-00.00

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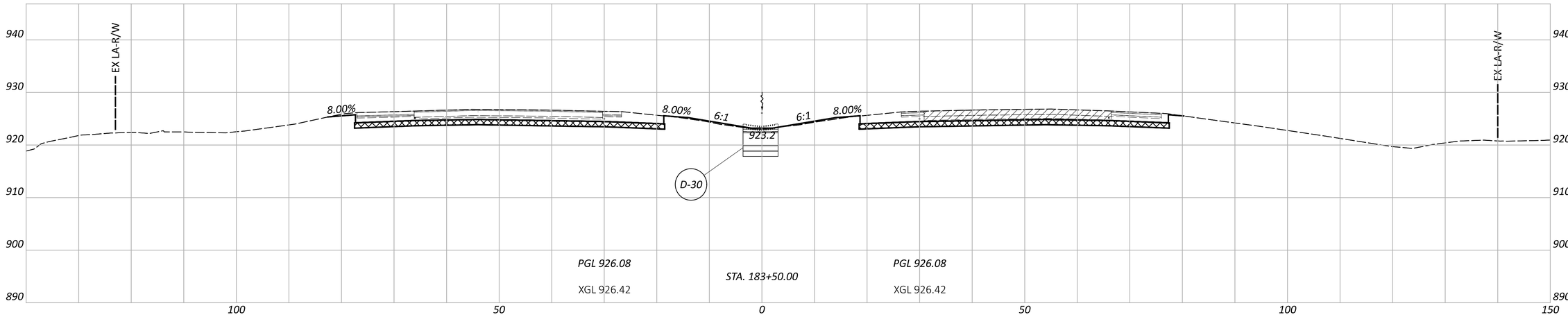
DESIGN AGENCY
STRUCTUREPOINT LLC

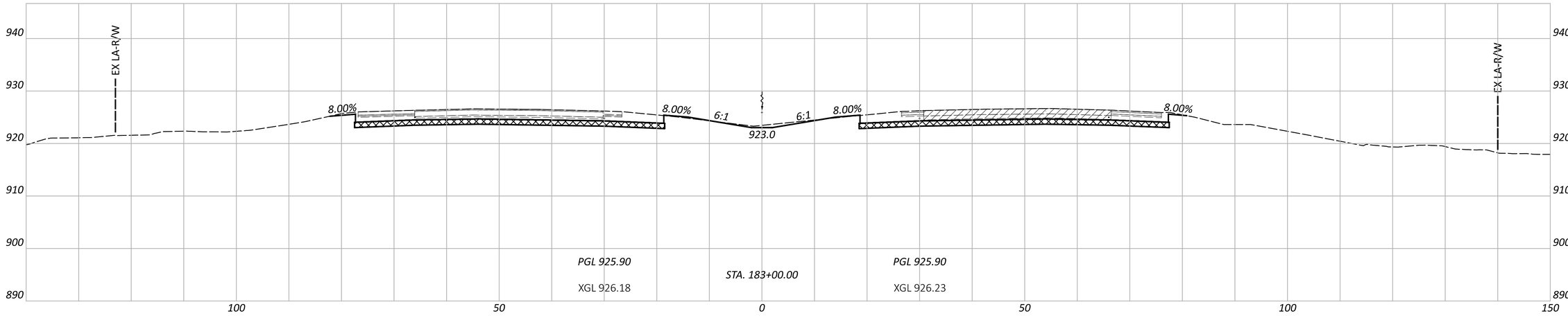
DESIGNER
ARM

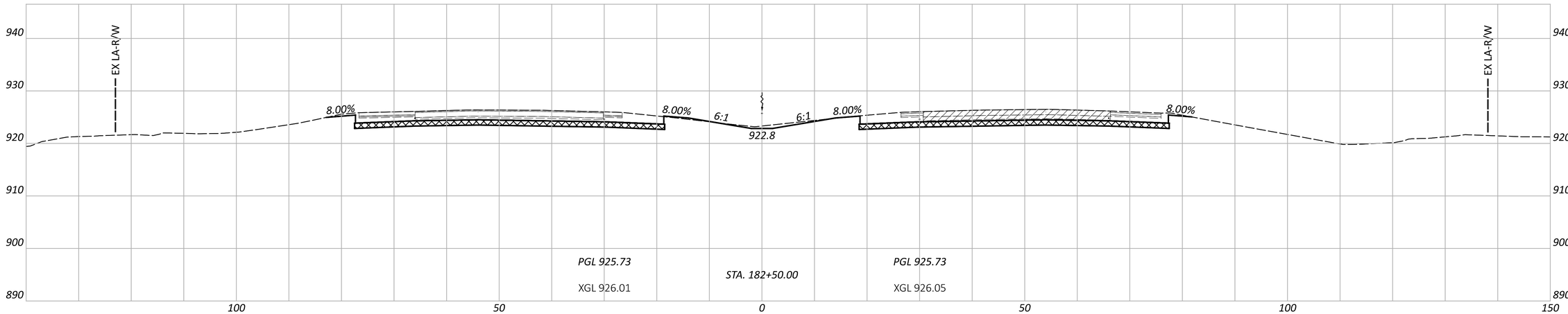
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.348 TOTAL 577







CROSS SECTIONS - IR 70
STA 182+50.00 TO STA 183+50.00

FRA-70-00.00

MODEL: CLP_I070 - 182+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:32:03 PM USER: AMerrill
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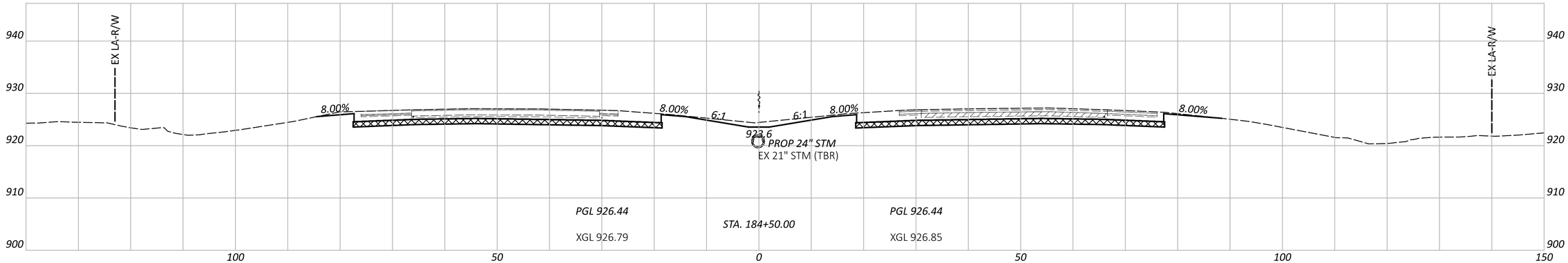
DESIGN AGENCY
STRUCTUREPOINT LLC

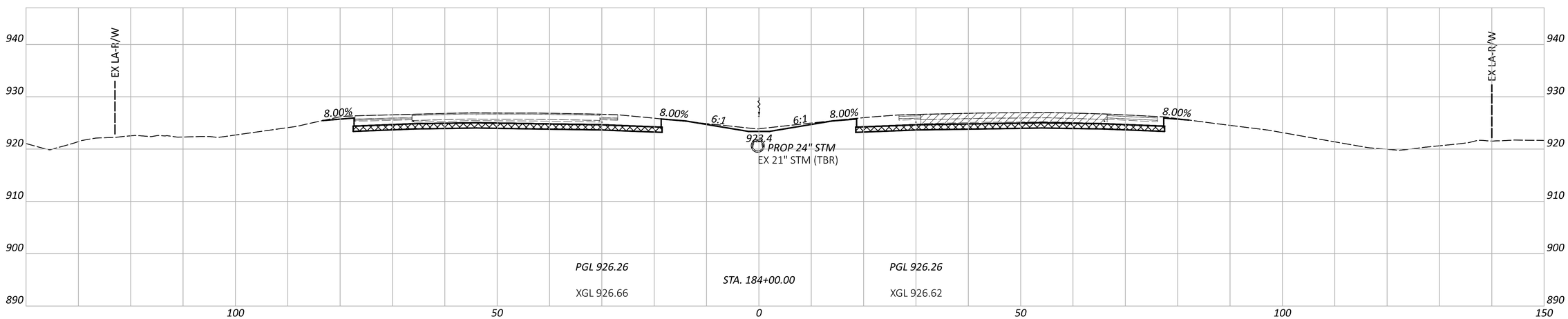
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.349 | TOTAL 577





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CROSS SECTIONS - IR 70
STA 184+00.00 TO STA 184+50.00

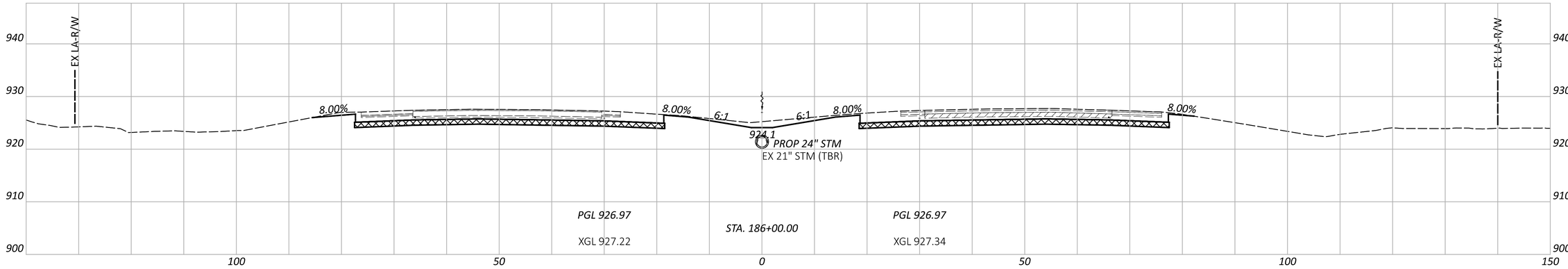
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

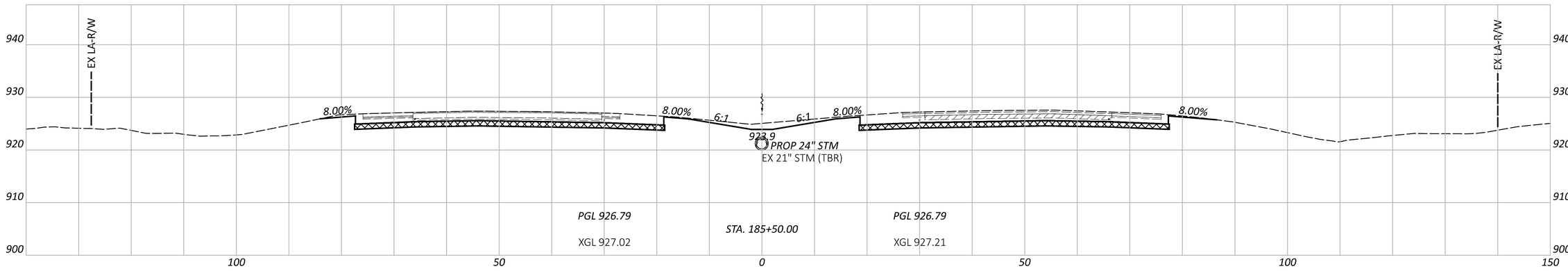
DESIGNER
ARM

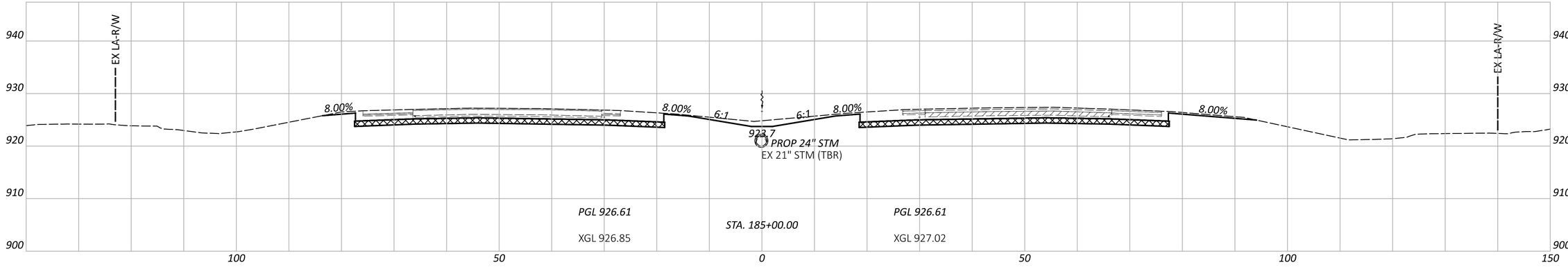
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.350 | TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 185+00.00 TO STA 186+00.00

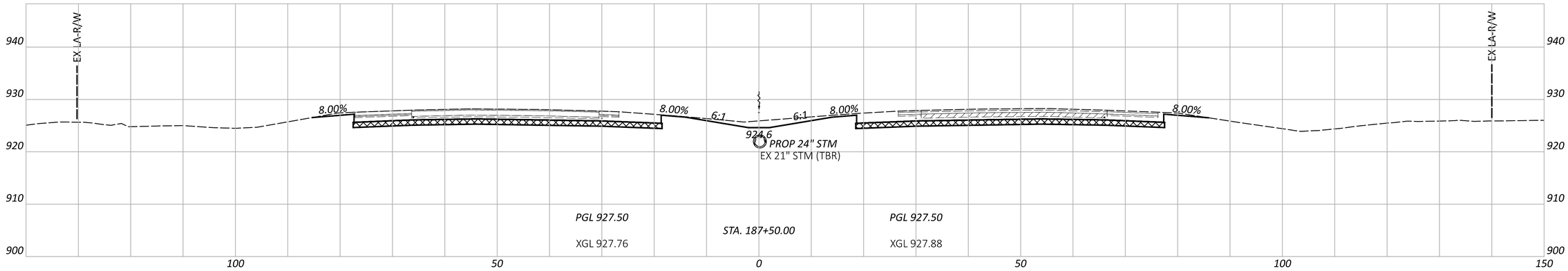
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

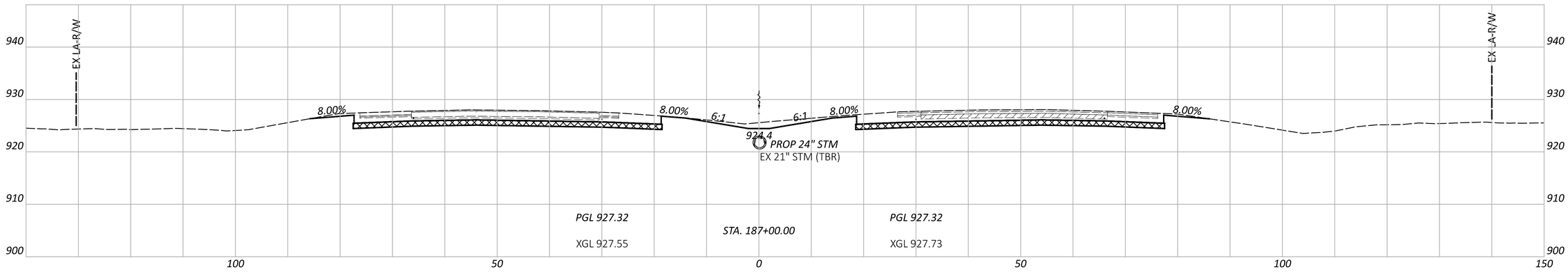
DESIGNER
ARM

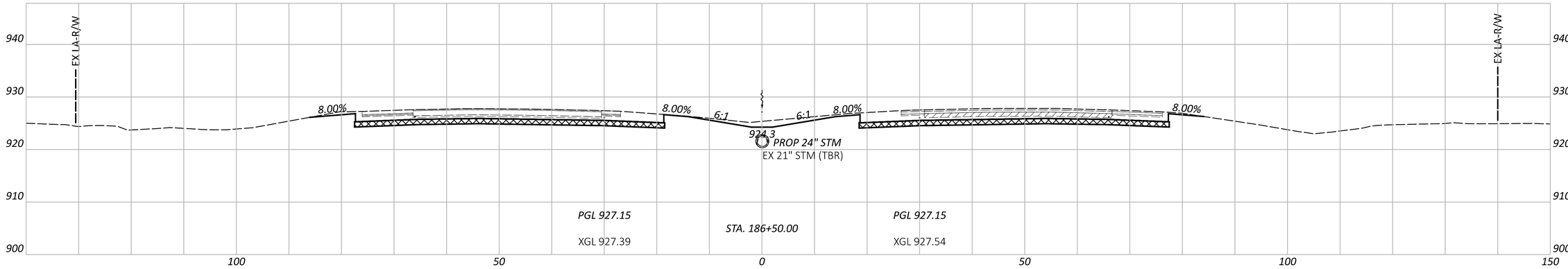
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.351 | TOTAL 577







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CROSS SECTIONS - IR 70
STA 186+50.00 TO STA 187+50.00

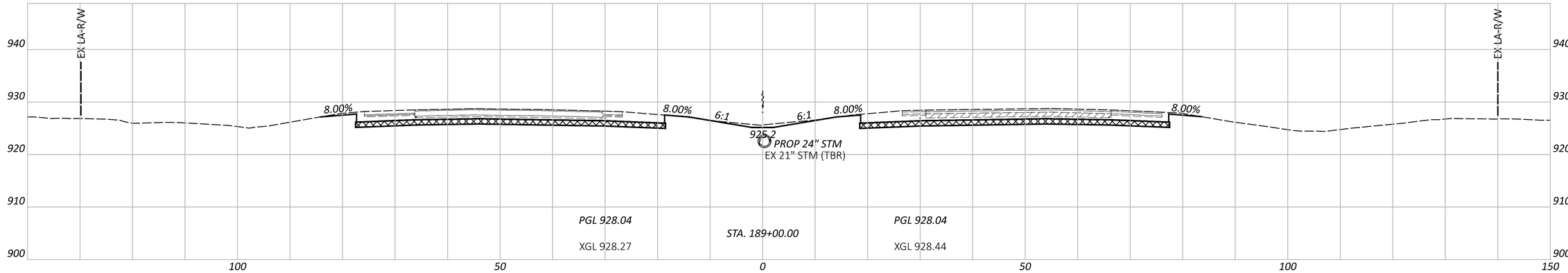
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

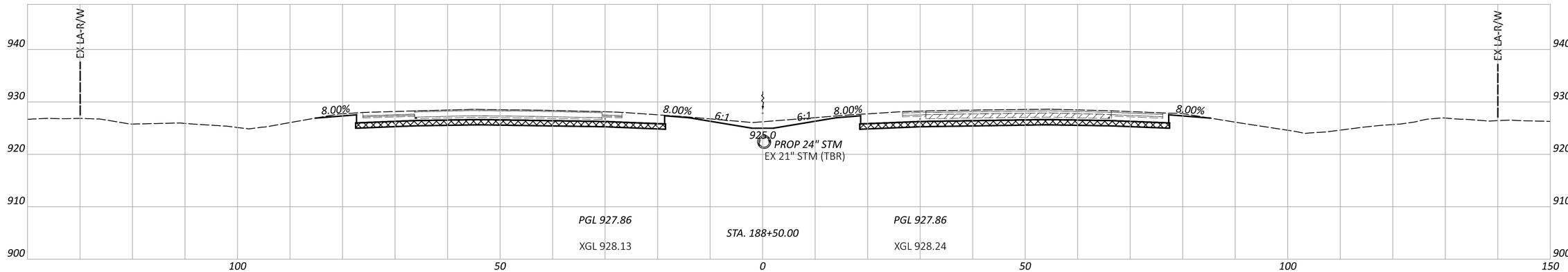
DESIGNER
ARM

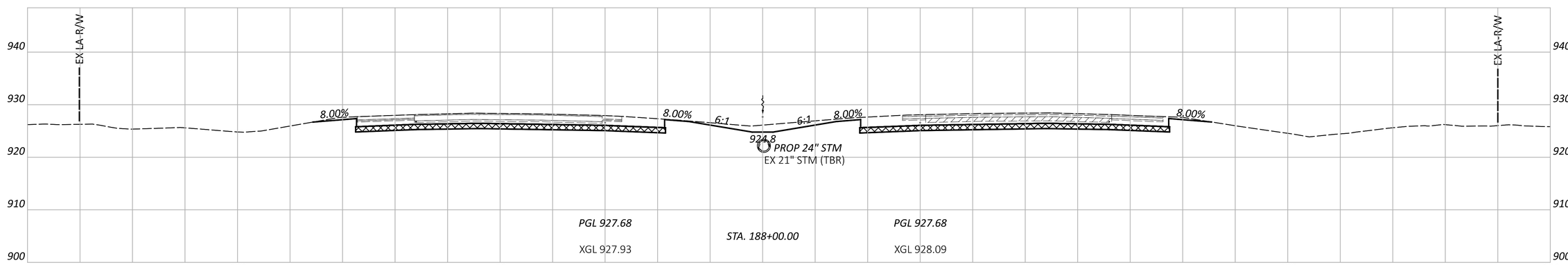
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.352 | TOTAL 577







CROSS SECTIONS - IR 70
STA 188+00.00 TO STA 189+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.353 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 188+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:32:35 PM USER: AMerrill
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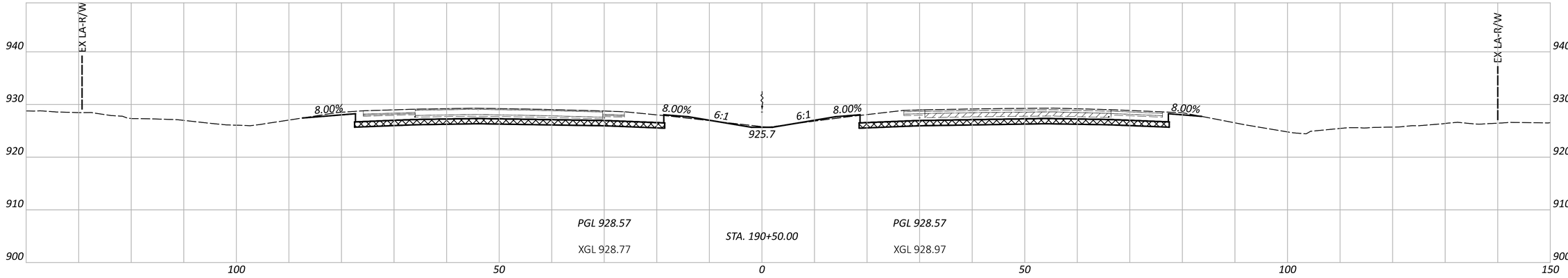

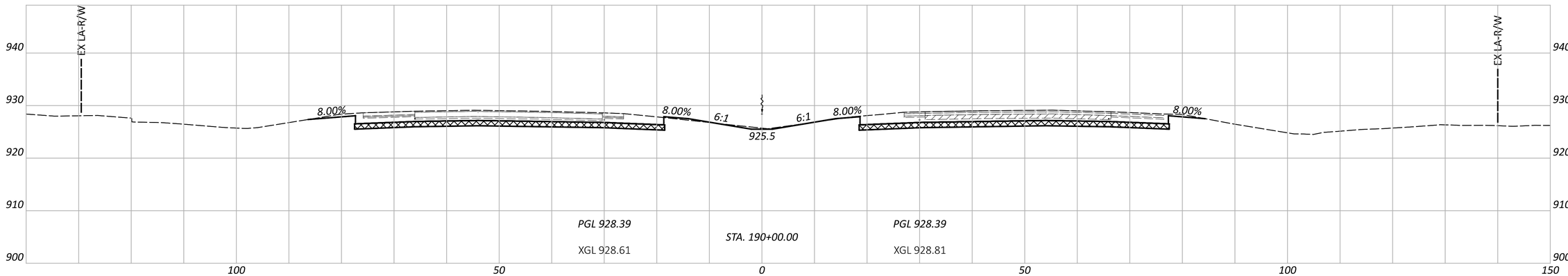

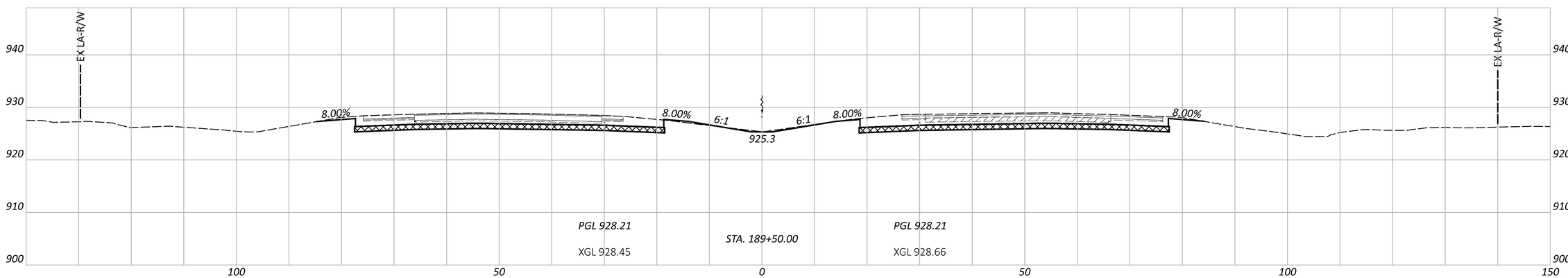

CROSS SECTIONS - IR 70
STA 189+50.00 TO STA 190+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.354 TOTAL 577

FRA-70-00.00

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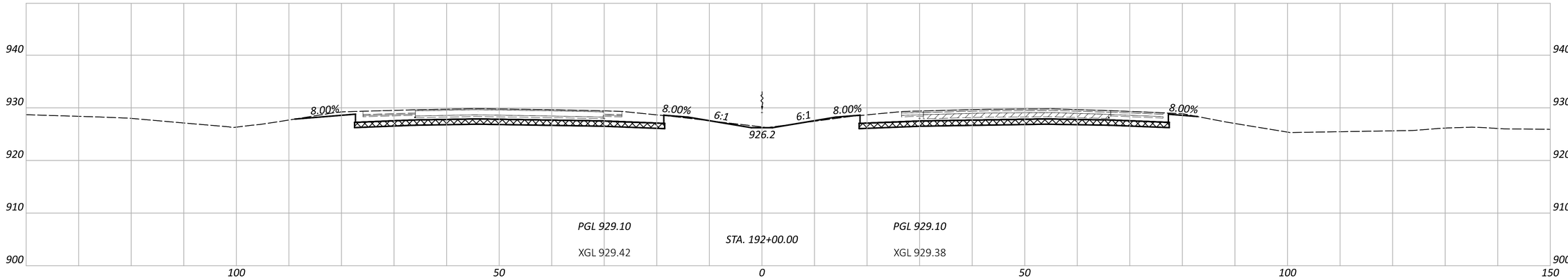

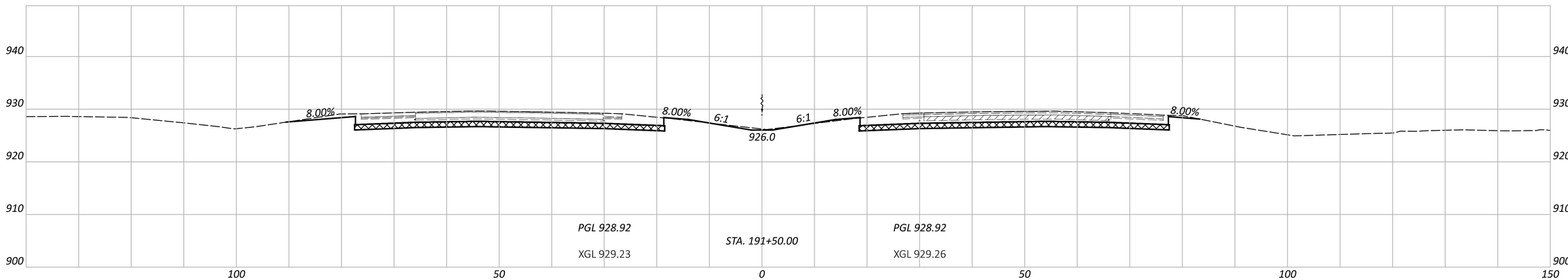

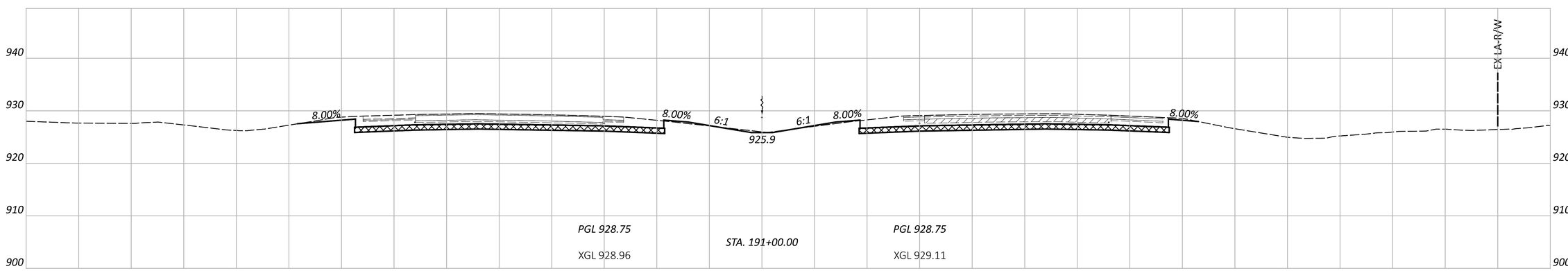

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 191+00.00 TO STA 192+00.00

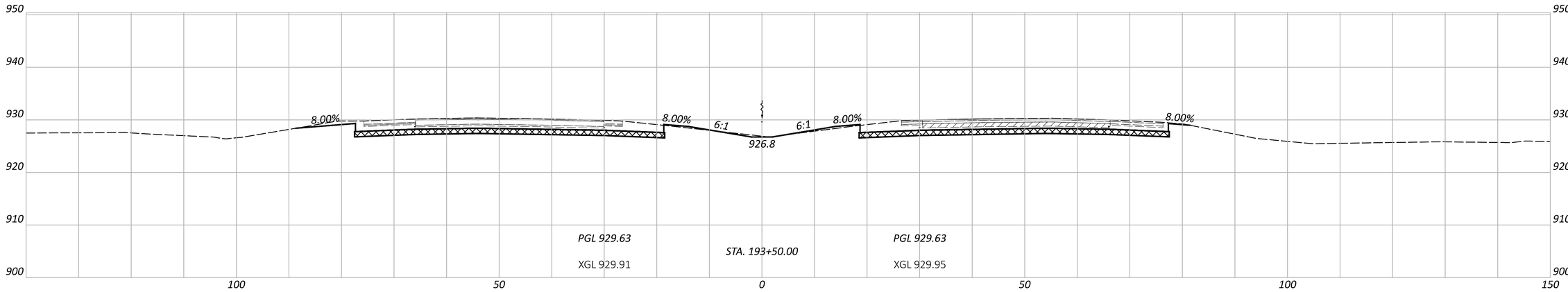
DESIGN AGENCY
STRUCTUREPOINT LLC

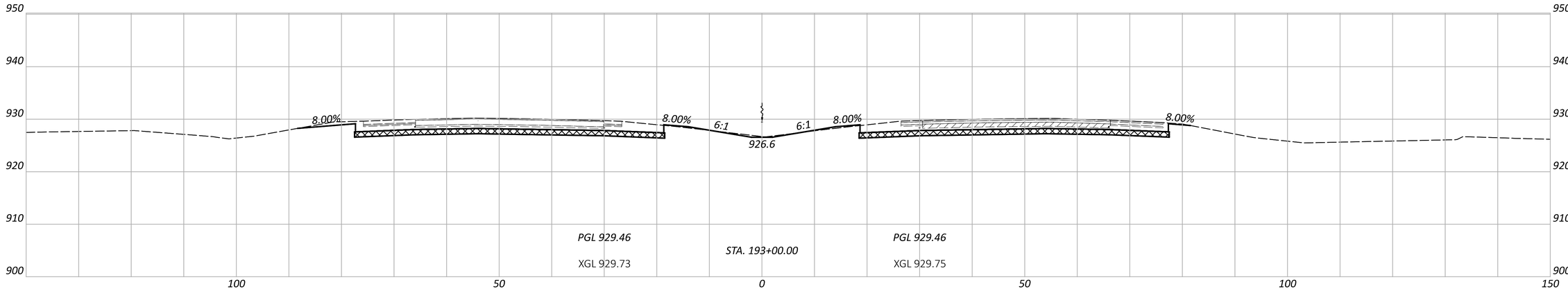
DESIGNER
ARM

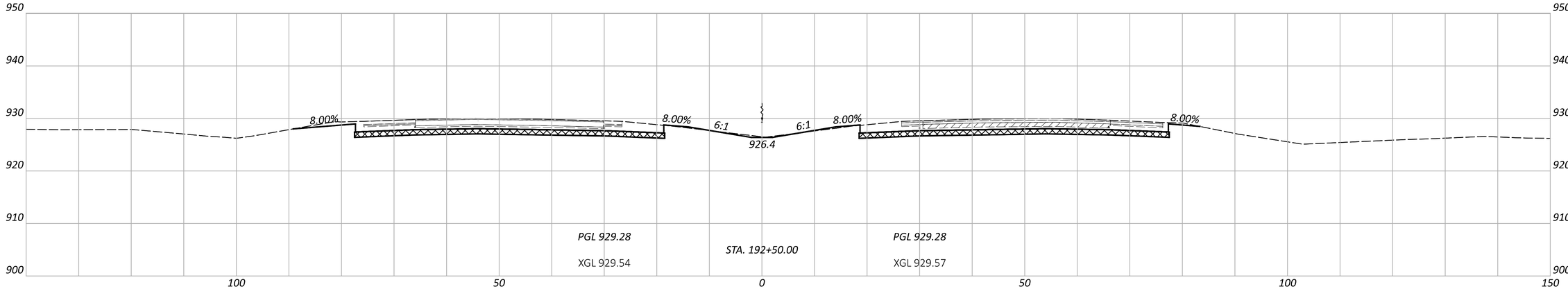
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.355 TOTAL 577







CROSS SECTIONS - IR 70
STA 192+50.00 TO STA 193+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.356 | TOTAL 577

FRA-70-00.00

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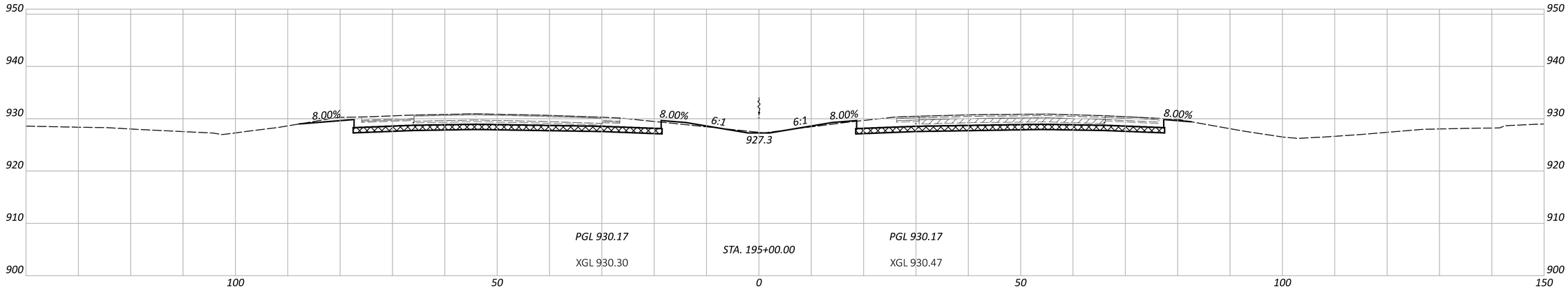

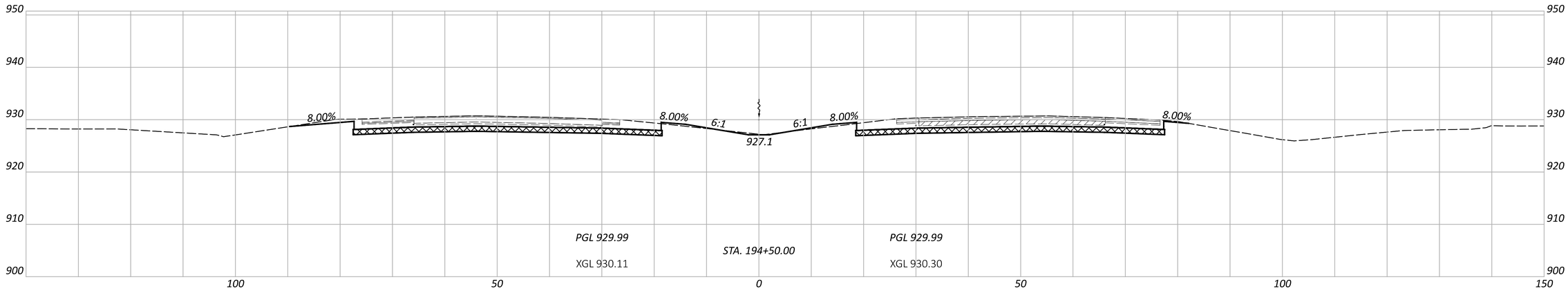

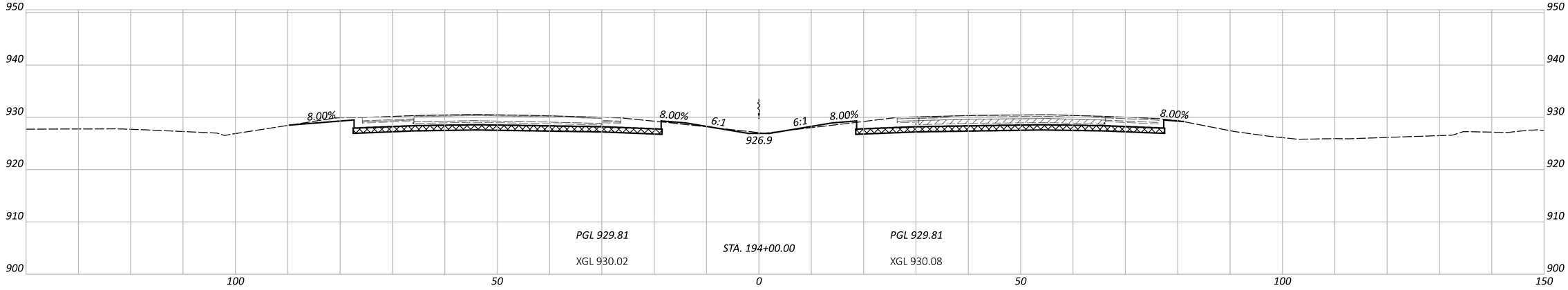

CROSS SECTIONS - IR 70
STA 194+00.00 TO STA 195+00.00

FRA-70-00.00

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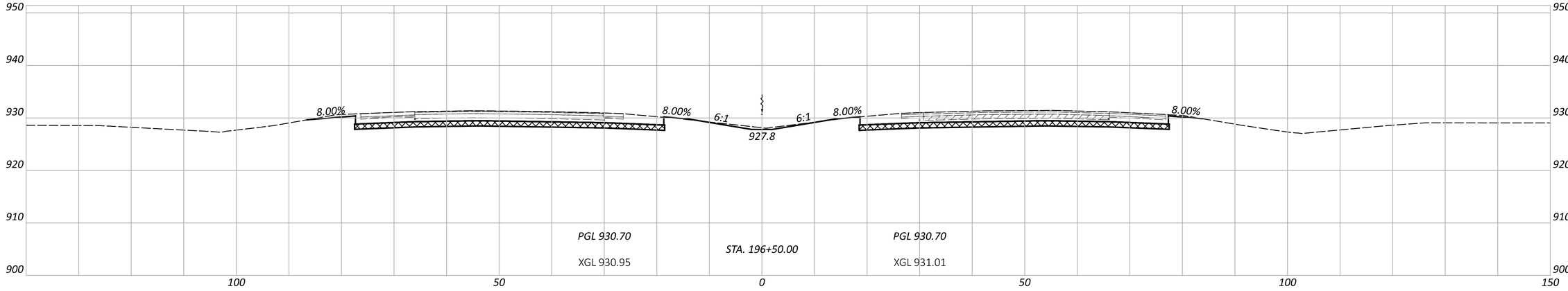
DESIGN AGENCY
STRUCTUREPOINT LLC

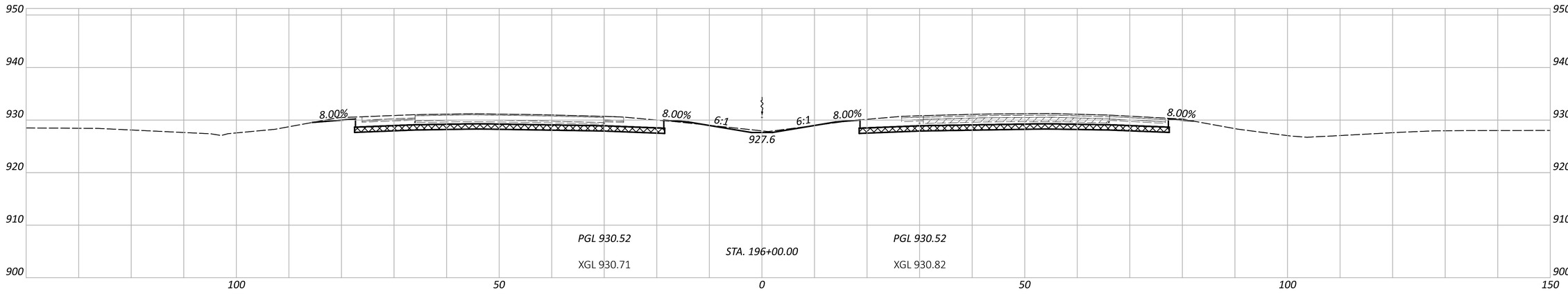
DESIGNER
ARM

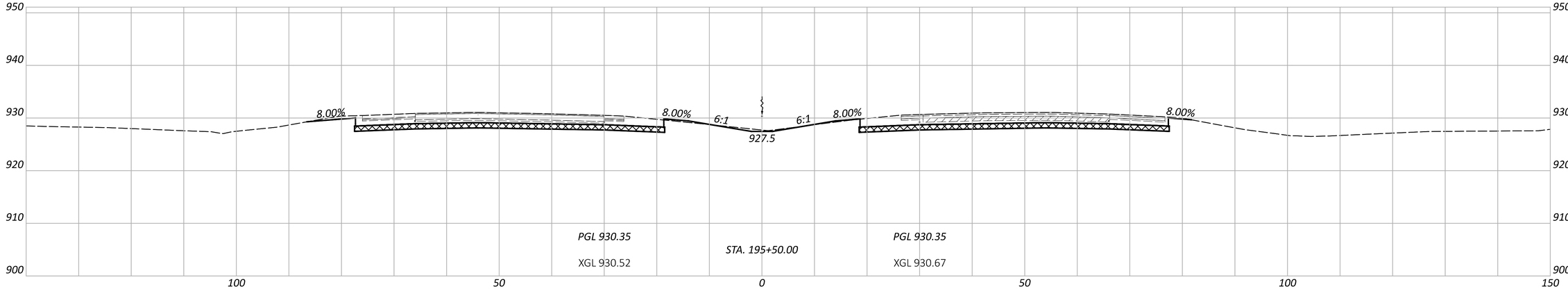
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.357 TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 195+50.00 TO STA 196+50.00

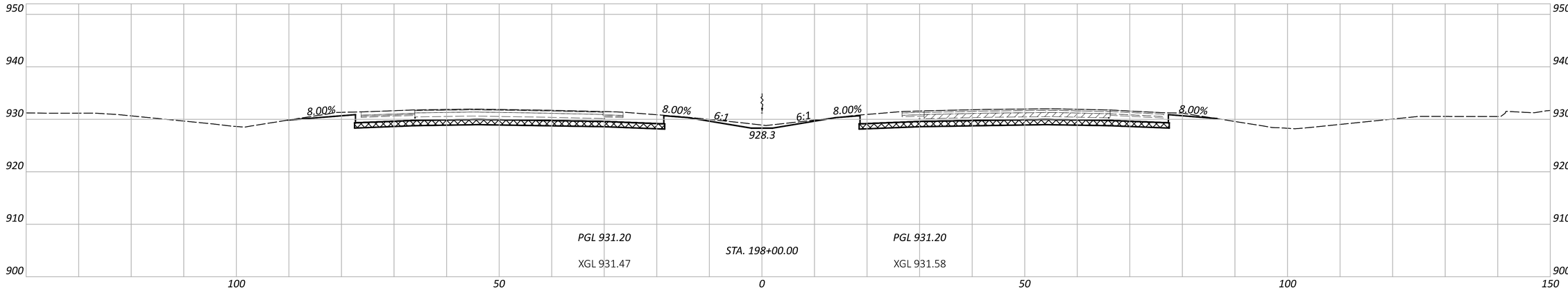
DESIGN AGENCY
STRUCTUREPOINT LLC

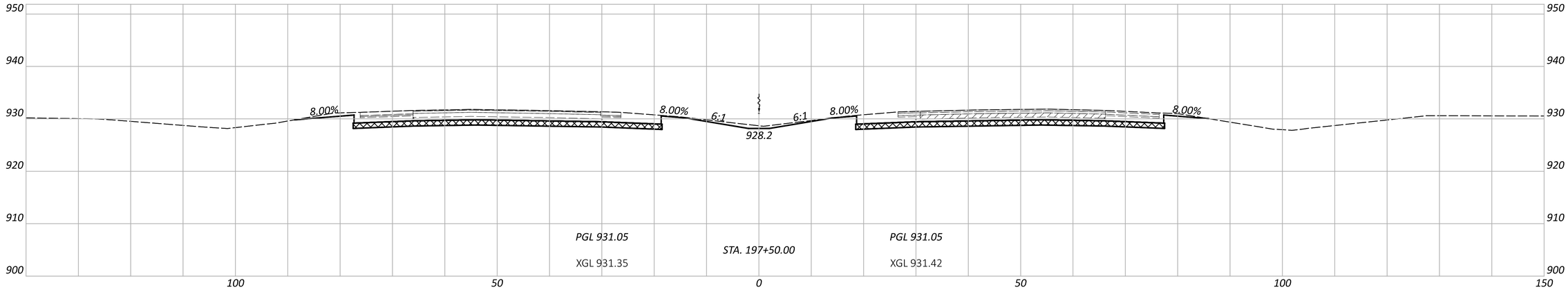
DESIGNER
ARM

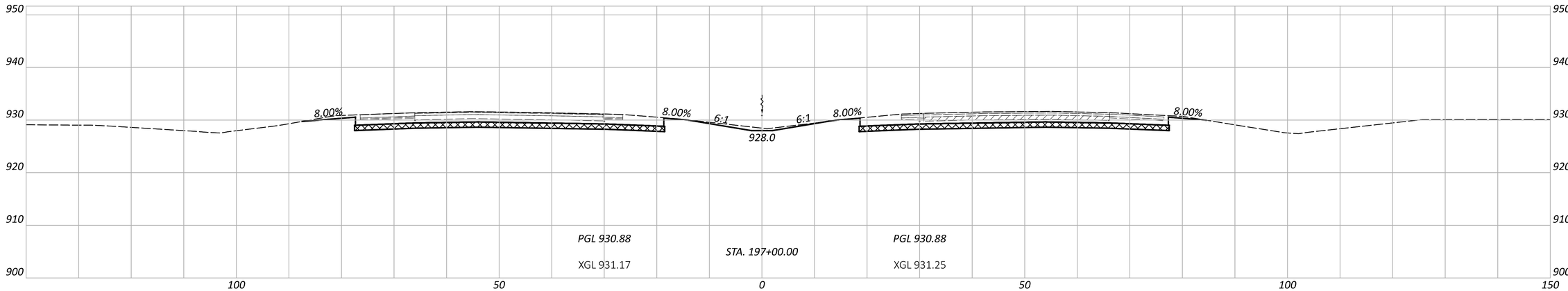
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.358 | TOTAL 577







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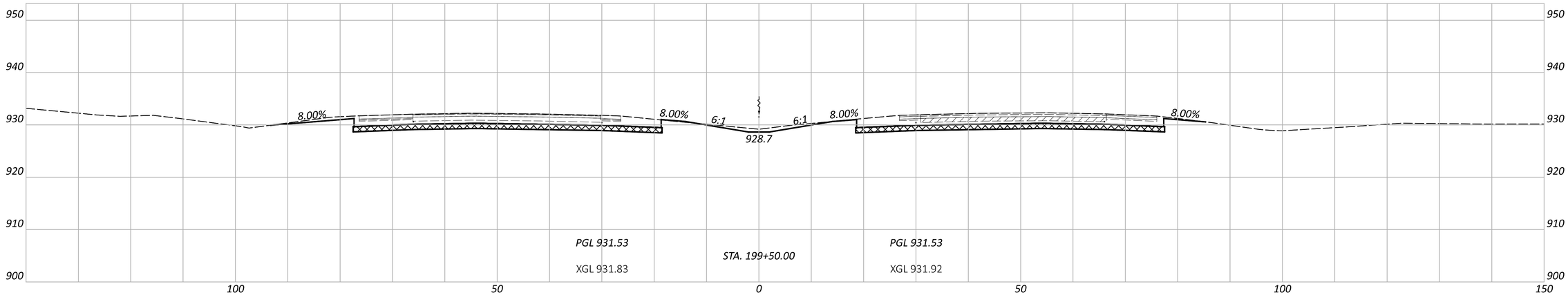
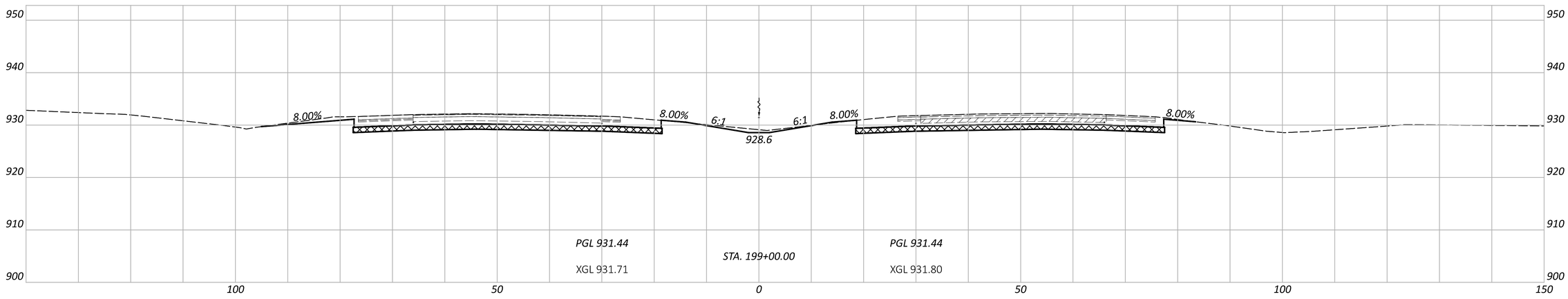
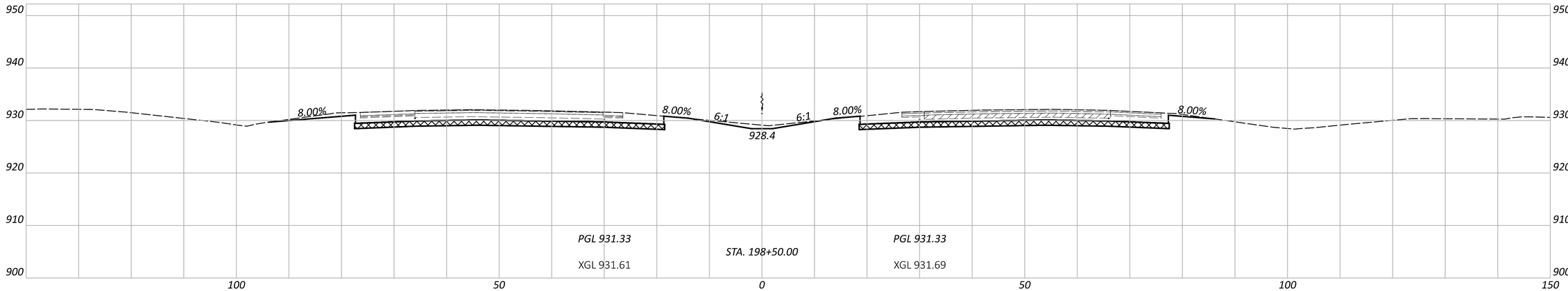
CROSS SECTIONS - IR 70
STA 197+00.00 TO STA 198+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.359
TOTAL	577







CROSS SECTIONS - IR 70
STA 198+50.00 TO STA 199+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.360 TOTAL 577

FRA-70-00.00

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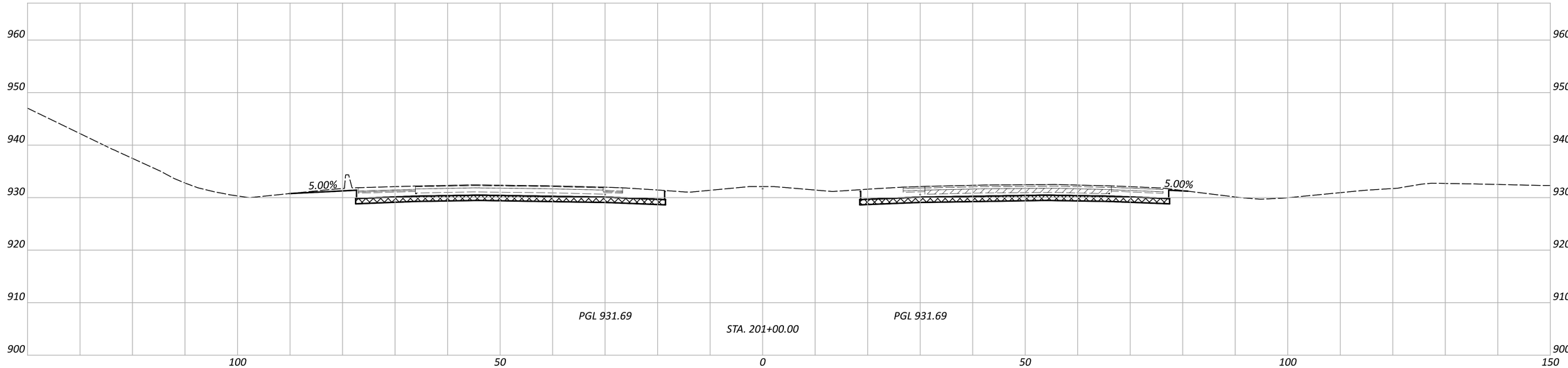

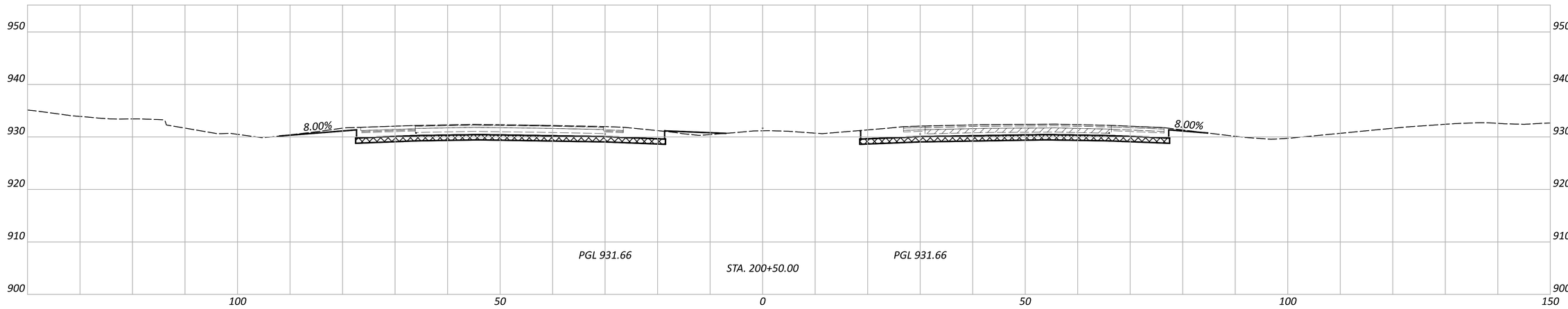

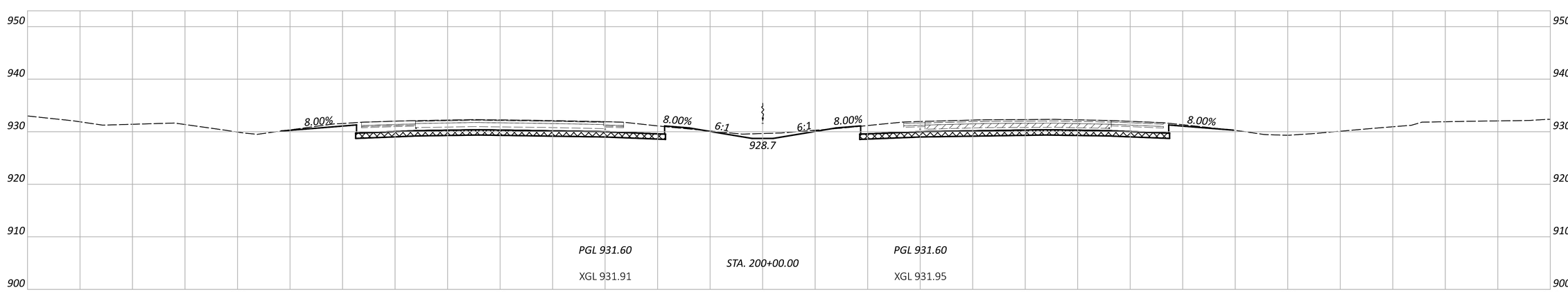

FRA-70-00.00

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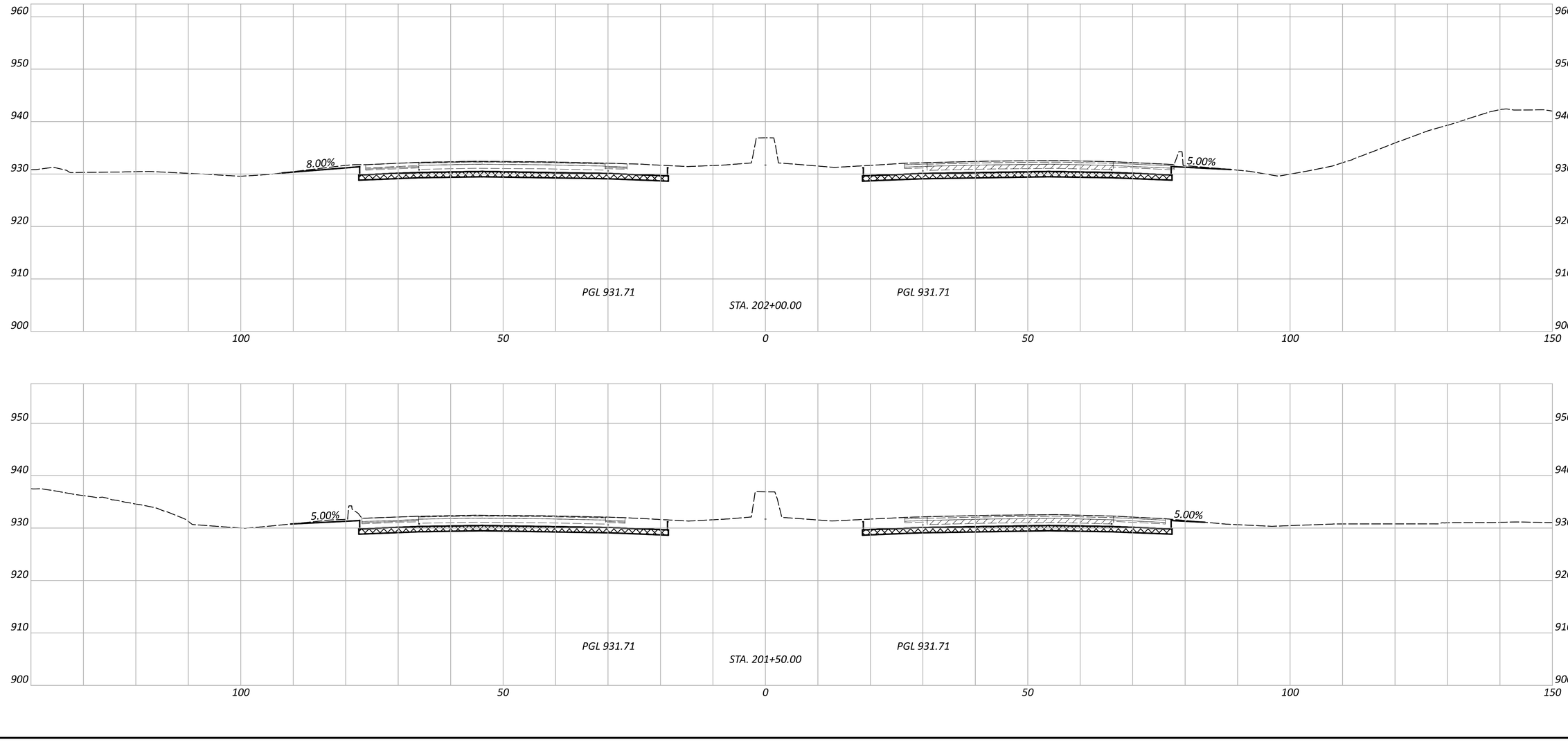
CROSS SECTIONS - IR 70
STA 200+00.00 TO STA 201+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.361
TOTAL	577



CROSS SECTIONS - IR 70
STA 201+50.00 TO STA 202+00.00

FRA-70-00.00

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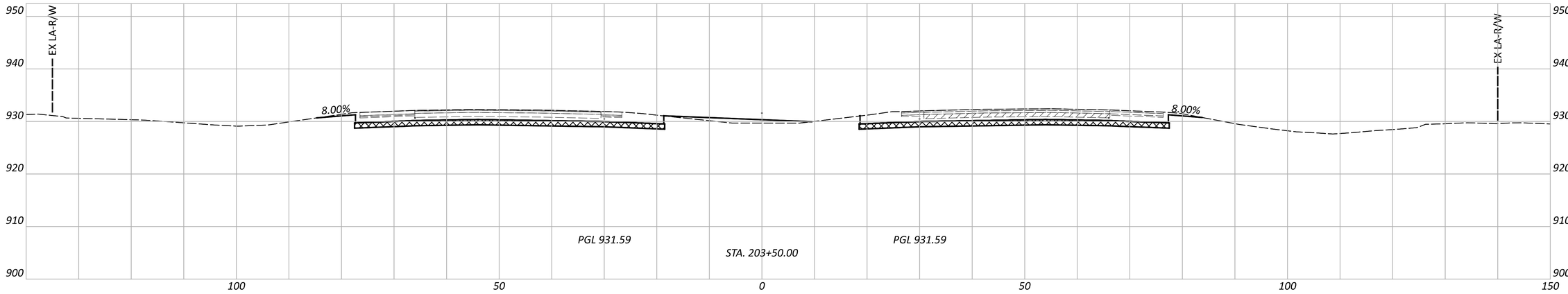
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

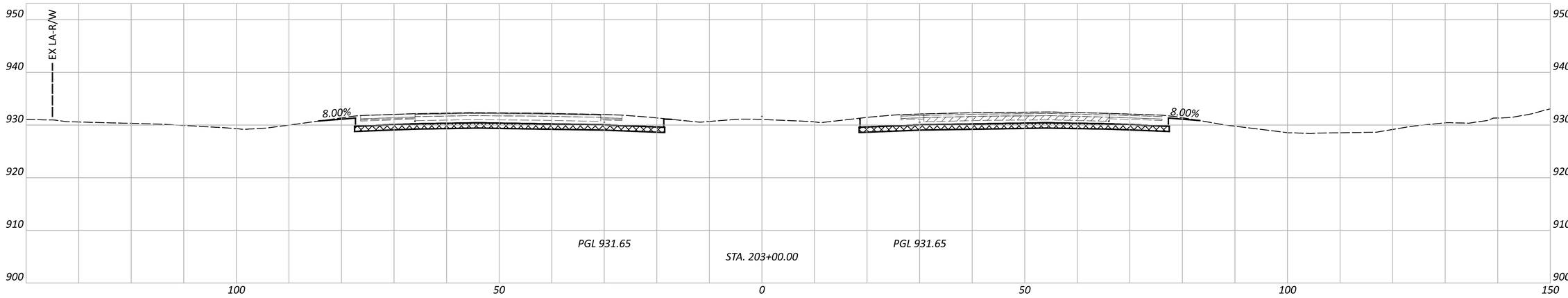
DESIGNER
ARM

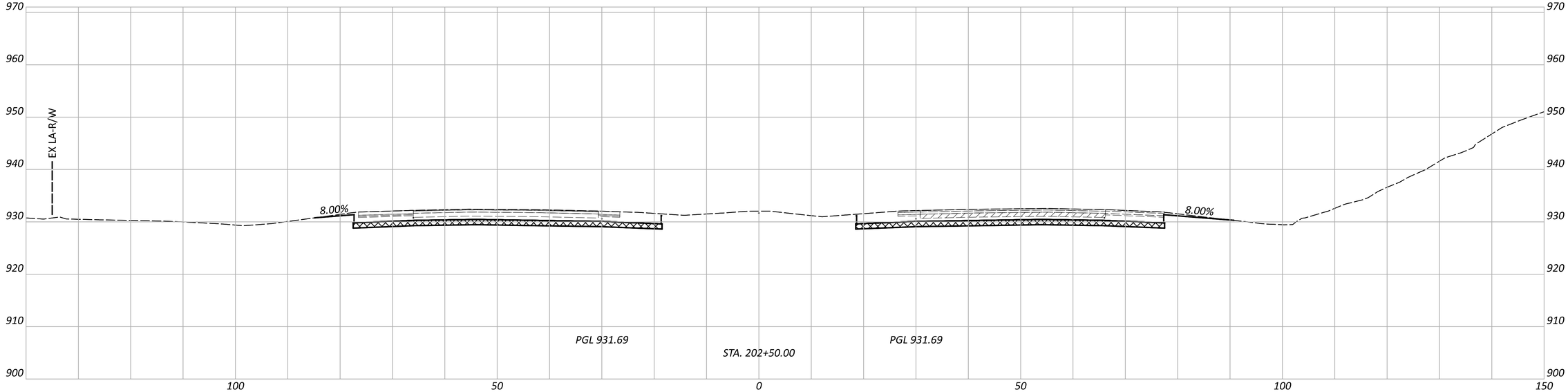
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.362 TOTAL 577







CROSS SECTIONS - IR 70
STA 202+50.00 TO STA 203+50.00

FRA-70-00.00

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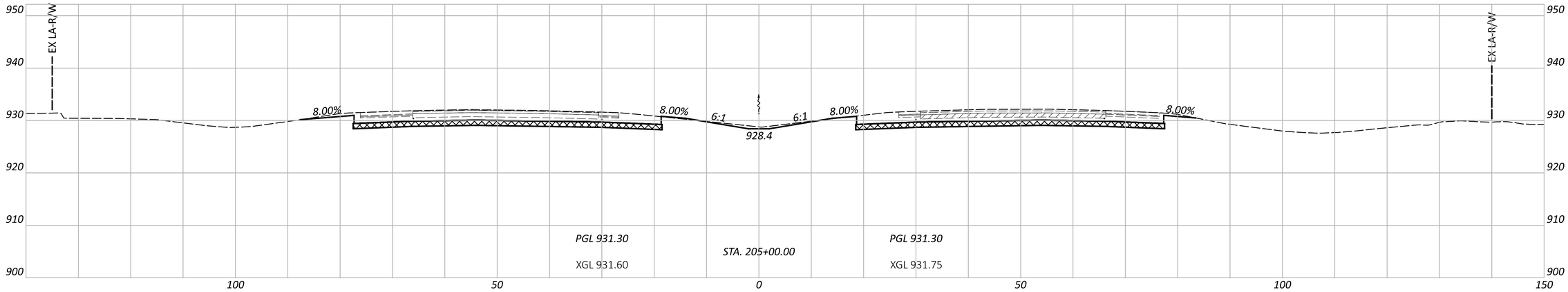
DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

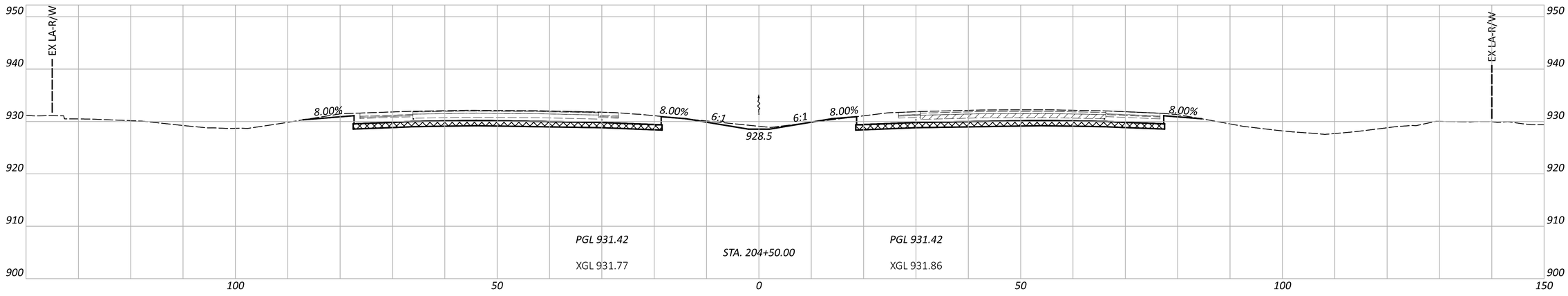
DESIGNER
ARM

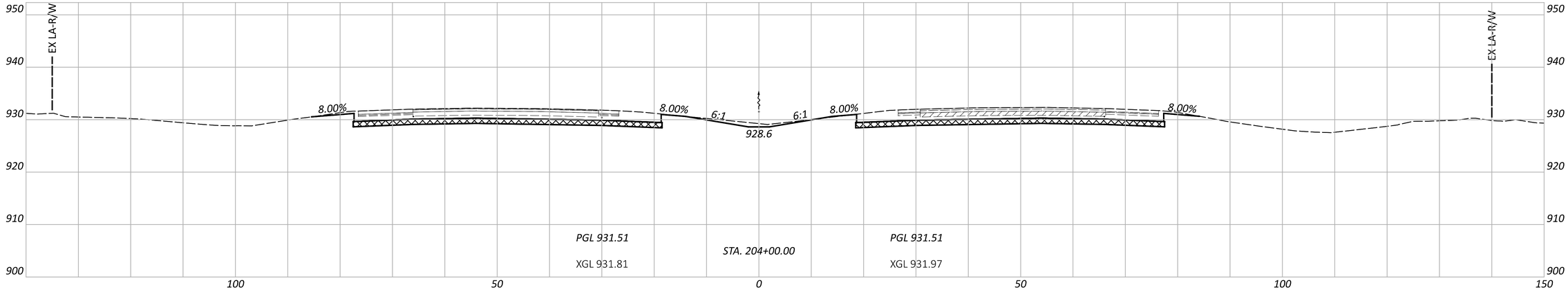
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.363 TOTAL 577







CROSS SECTIONS - IR 70
STA 204+00.00 TO STA 205+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.364 | TOTAL 577

FRA-70-00.00

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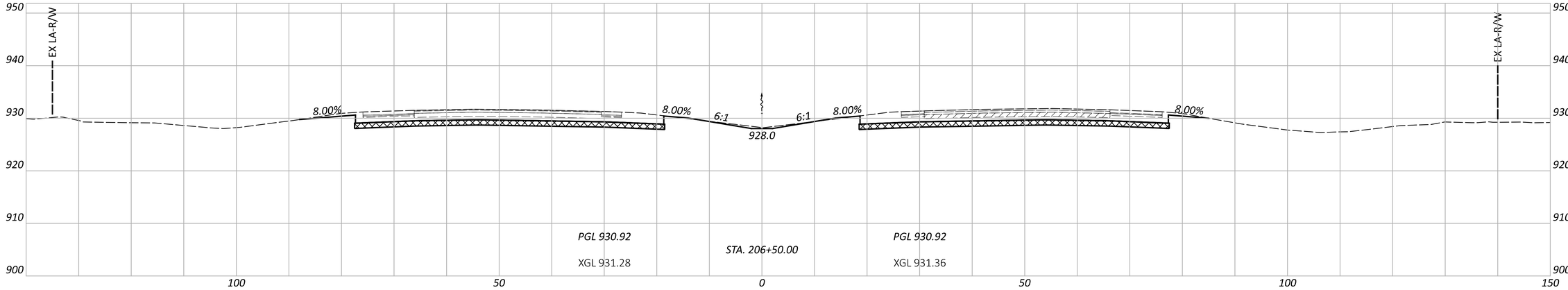

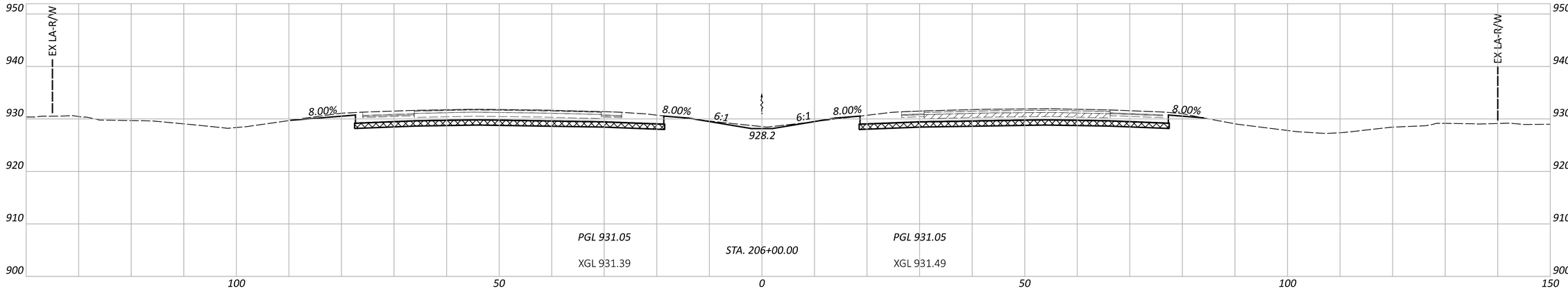

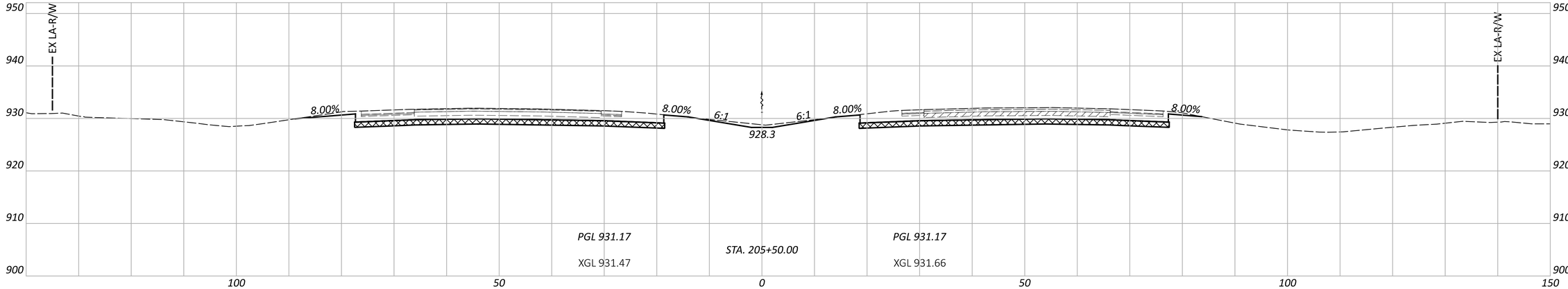

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CROSS SECTIONS - IR 70
STA 205+50.00 TO STA 206+50.00

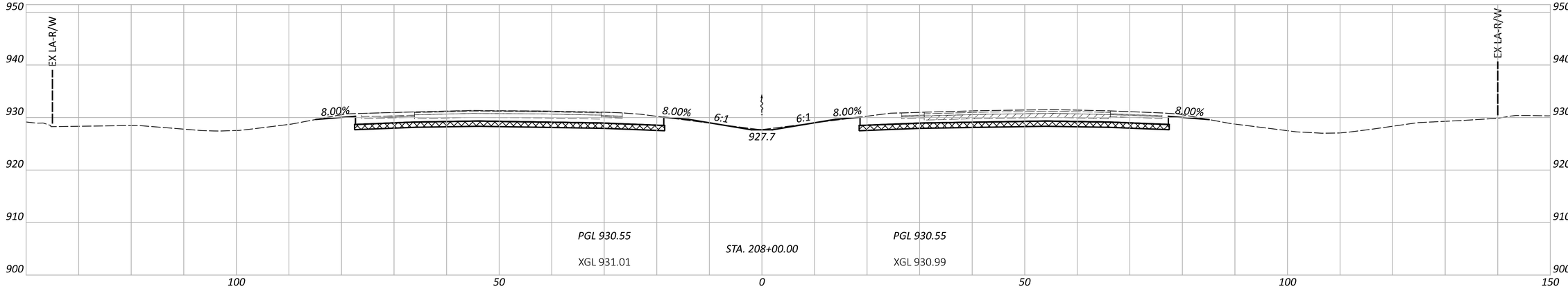
DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

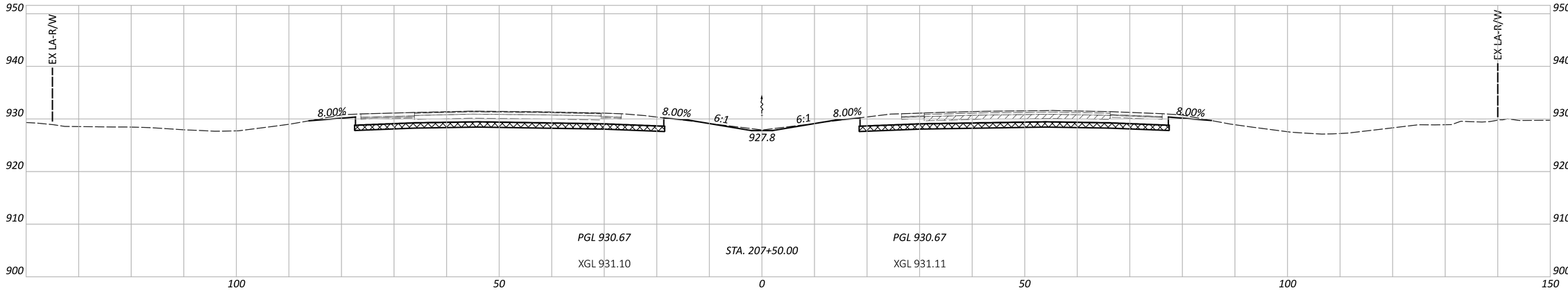
DESIGNER
ARM

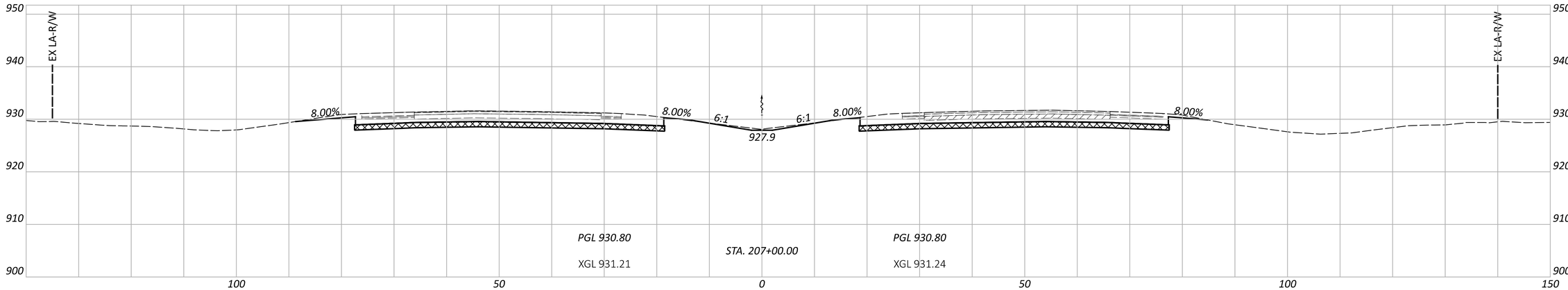
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.365 | TOTAL 577







FRA-70-00.00

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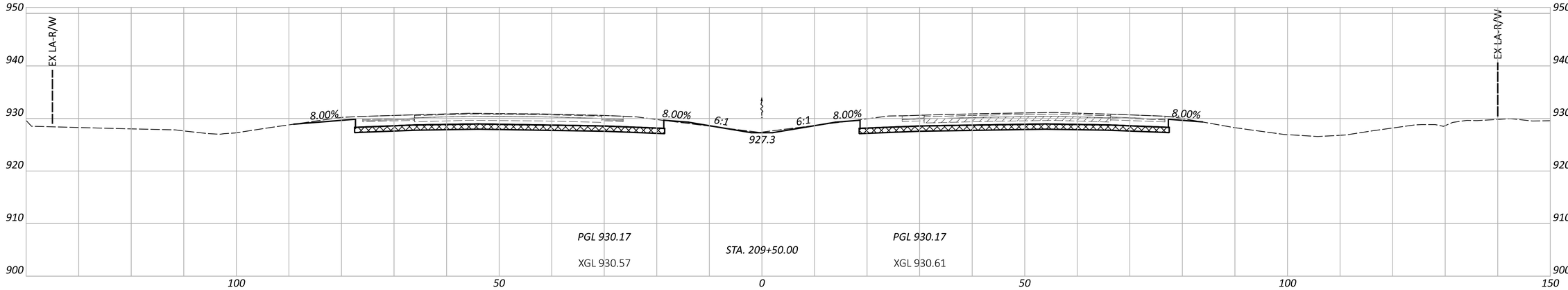
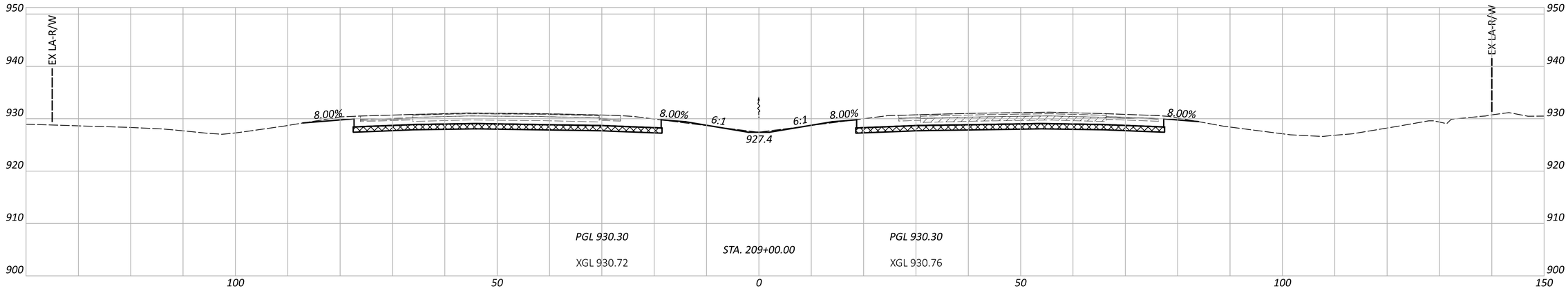
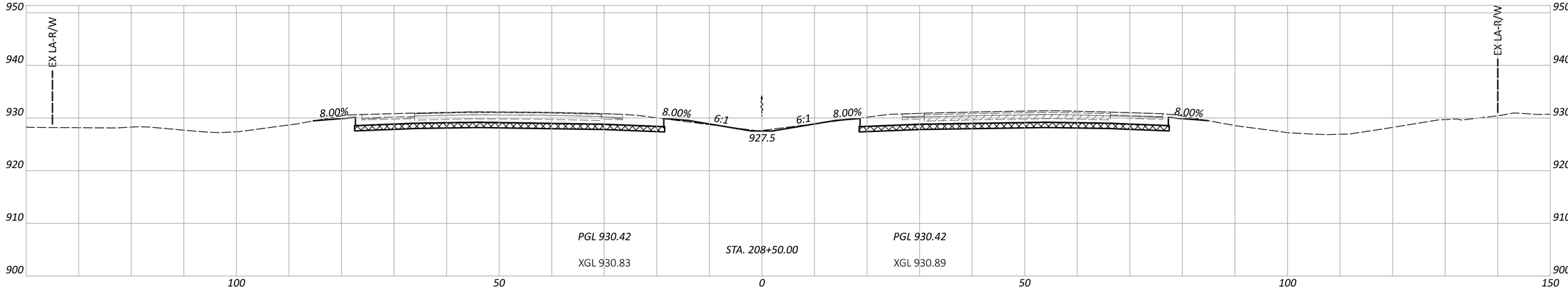
CROSS SECTIONS - IR 70
STA 207+00.00 TO STA 208+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.366
TOTAL	577







FRA-70-00.00

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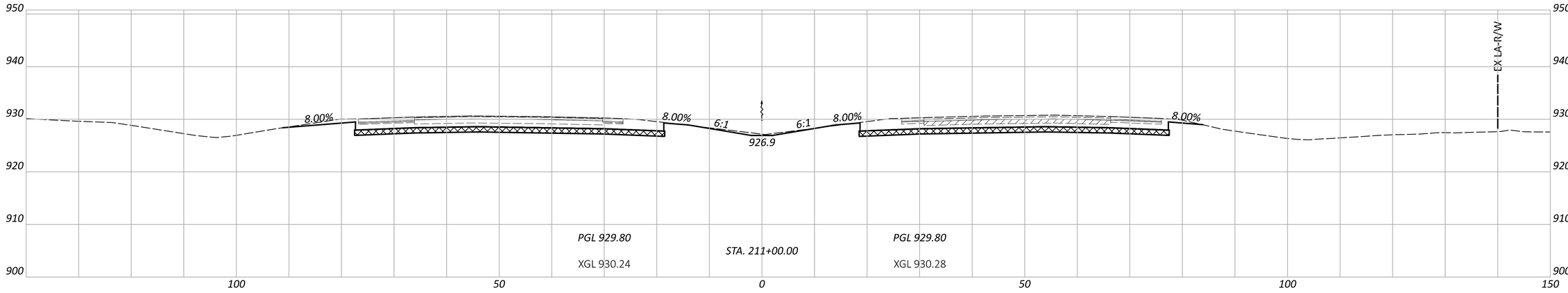
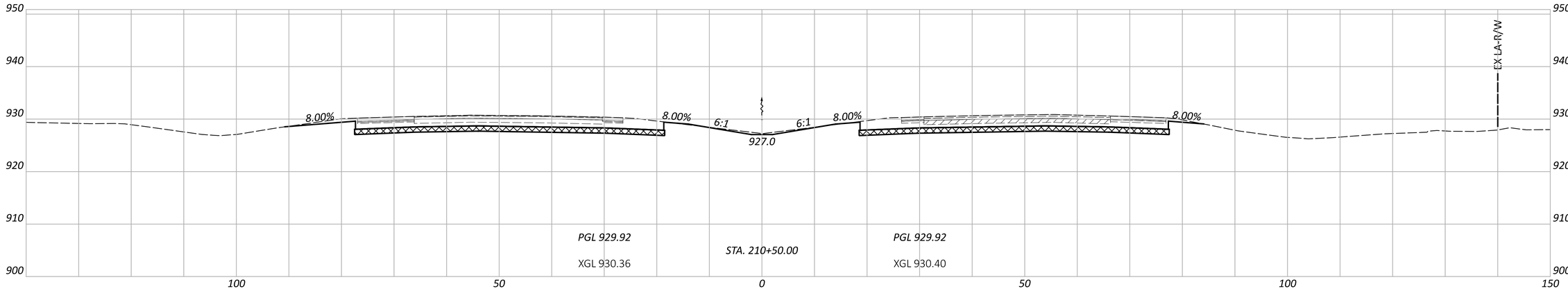
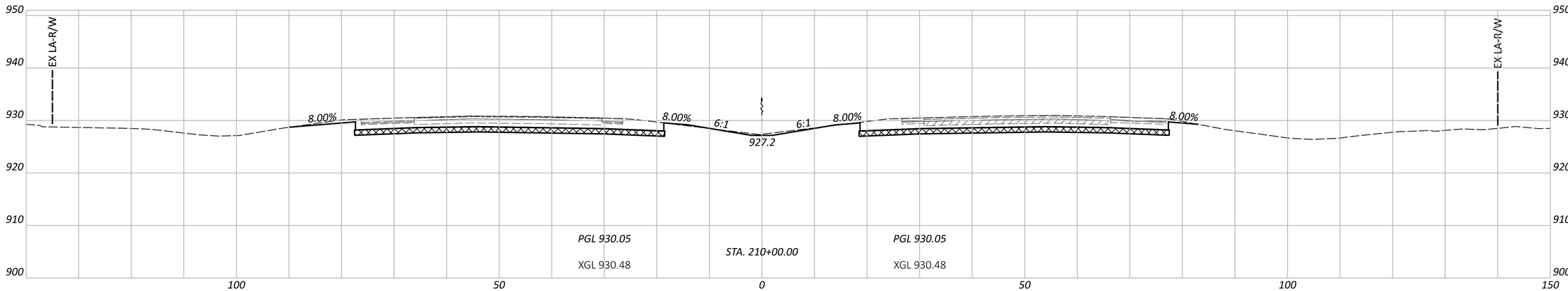
CROSS SECTIONS - IR 70
STA 208+50.00 TO STA 209+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.367
TOTAL	577







CROSS SECTIONS - IR 70
STA 210+00.00 TO STA 211+00.00

FRA-70-00.00

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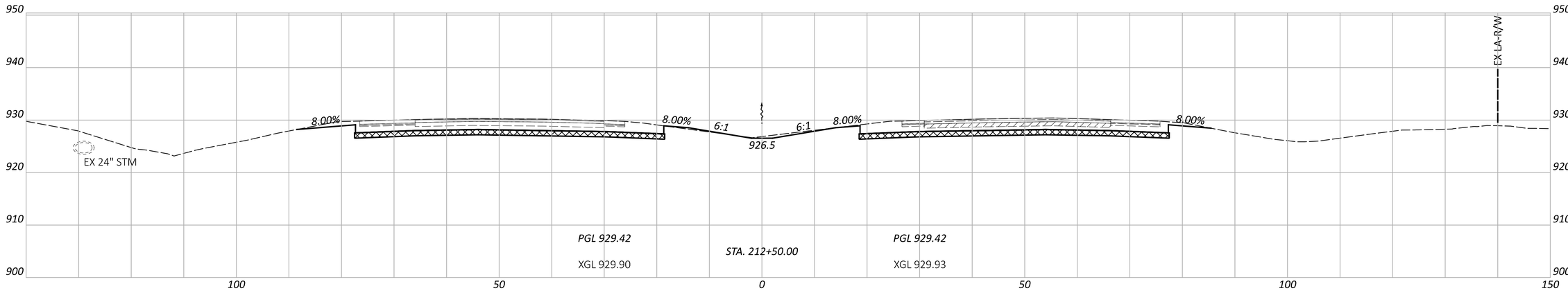
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

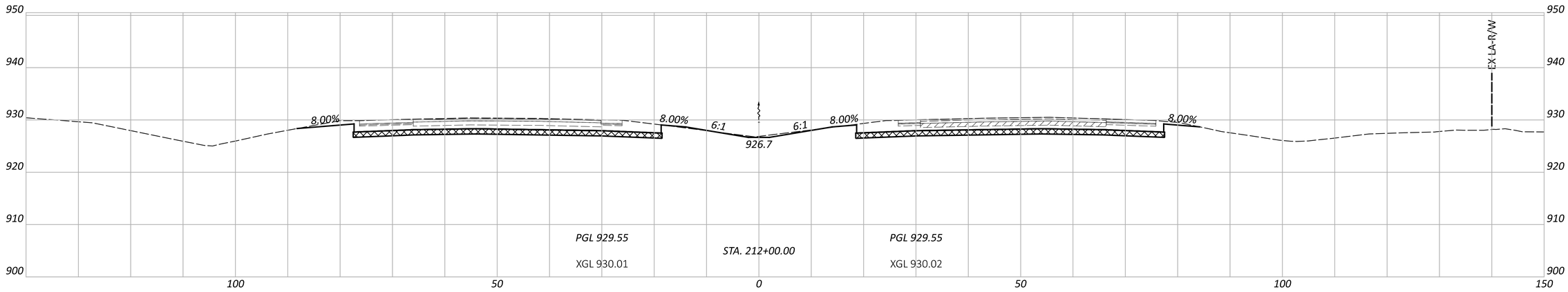
DESIGNER
ARM

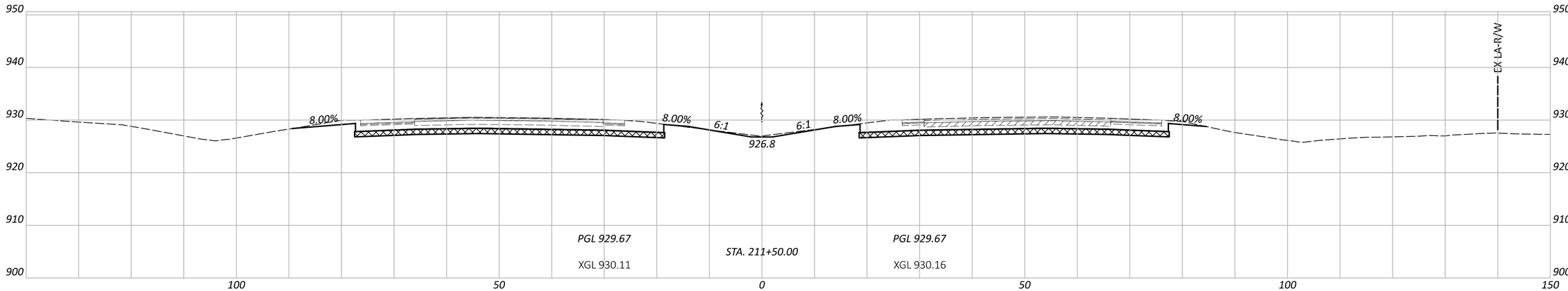
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.368 | TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 211+50.00 TO STA 212+50.00

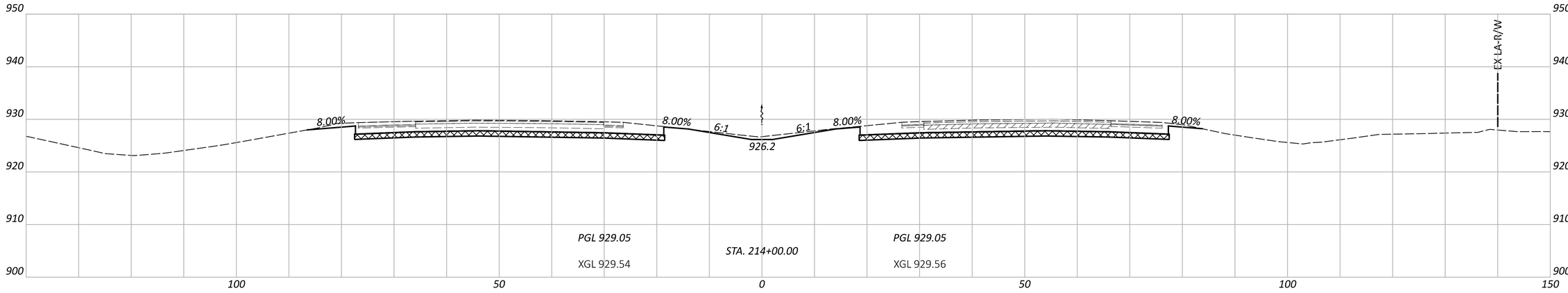
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

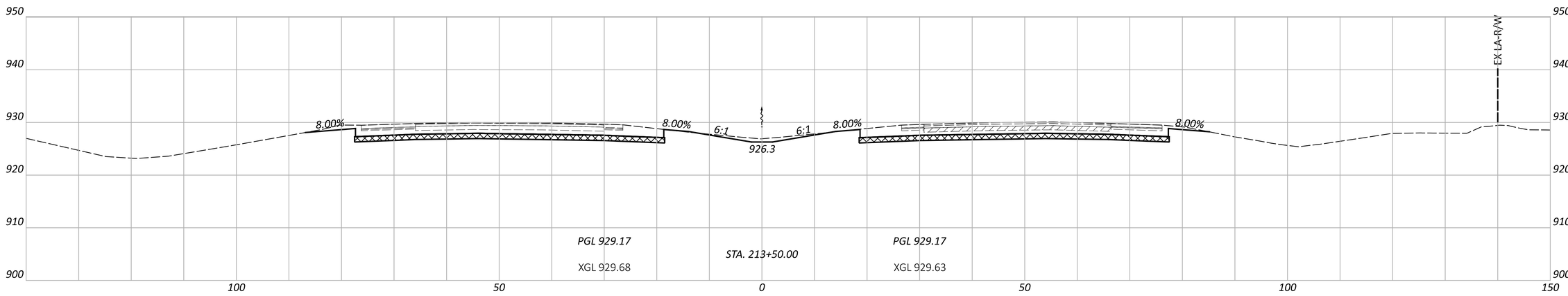
DESIGNER
ARM

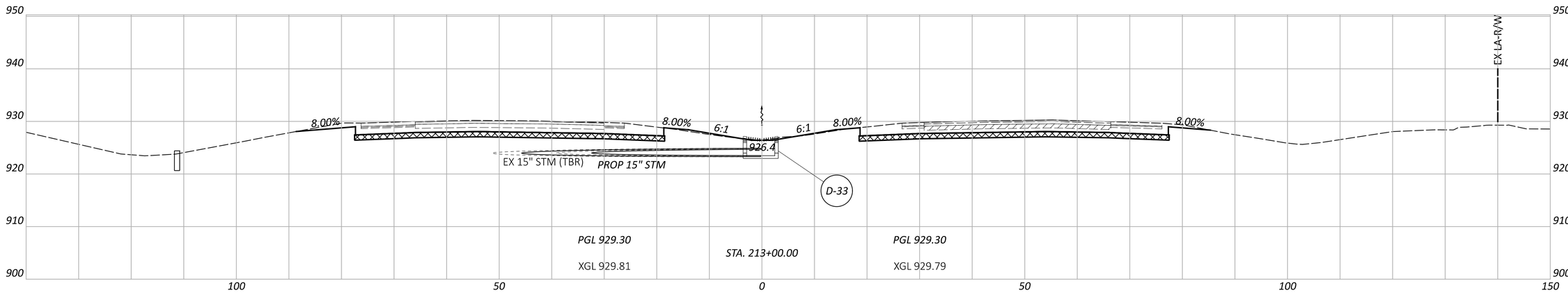
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.369 | TOTAL 577







CROSS SECTIONS - IR 70
STA 213+00.00 TO STA 214+00.00

FRA-70-00.00

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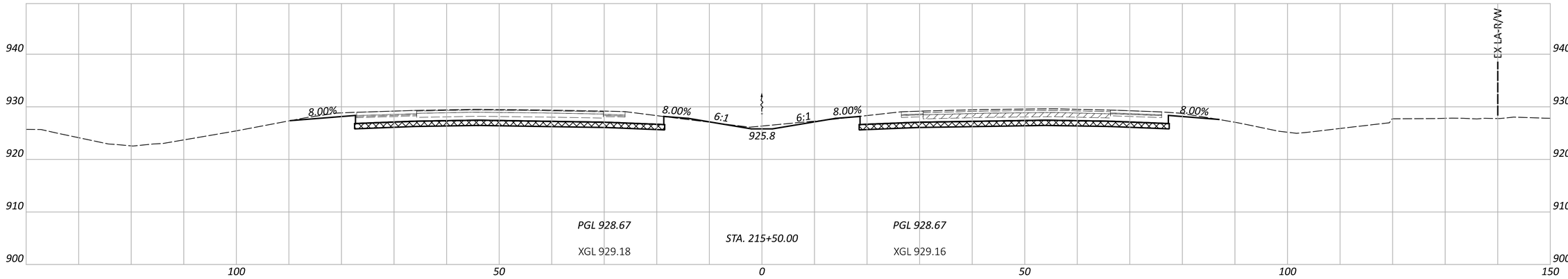
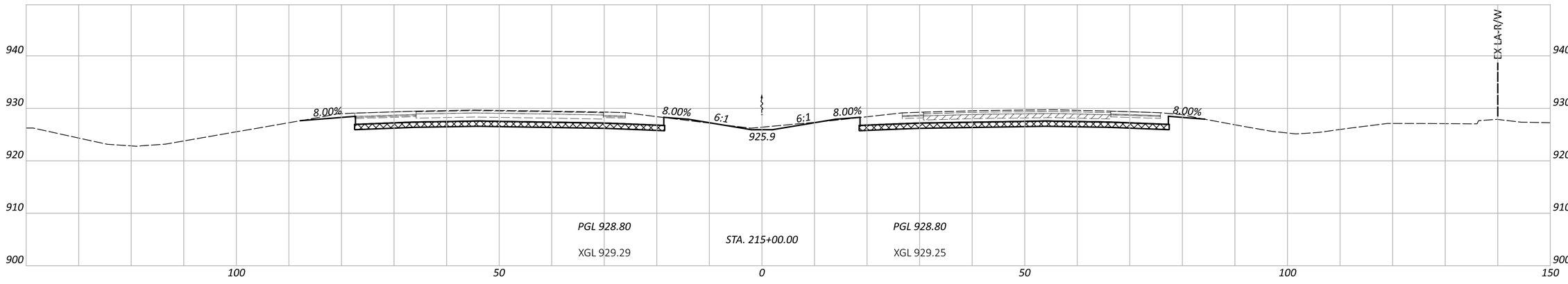
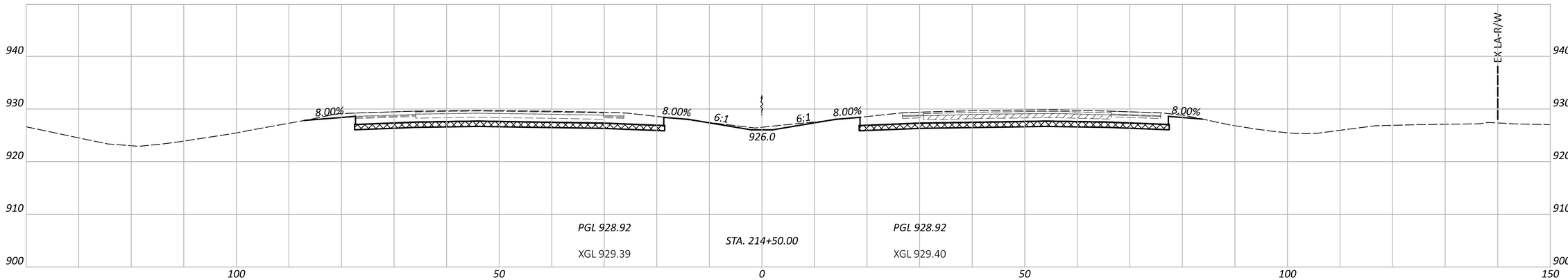
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.370
TOTAL	577







CROSS SECTIONS - IR 70
STA 214+50.00 TO STA 215+50.00

FRA-70-00.00

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O:\2023\00711\C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_XS111.dgn

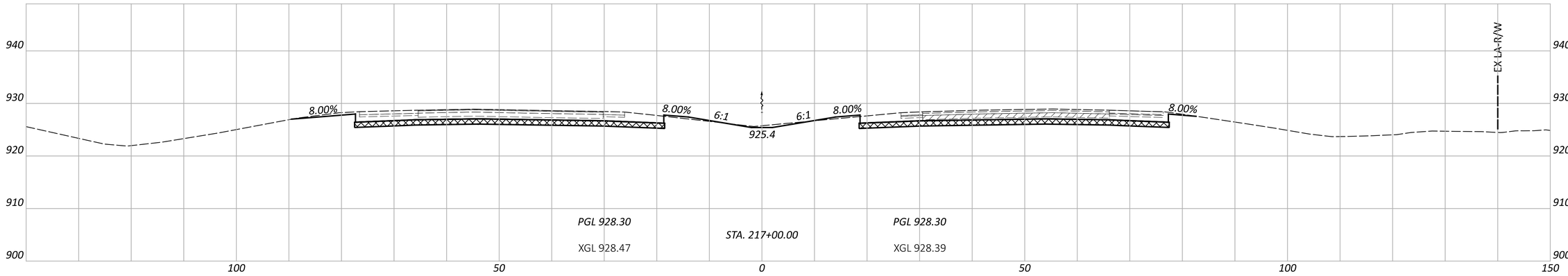
DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

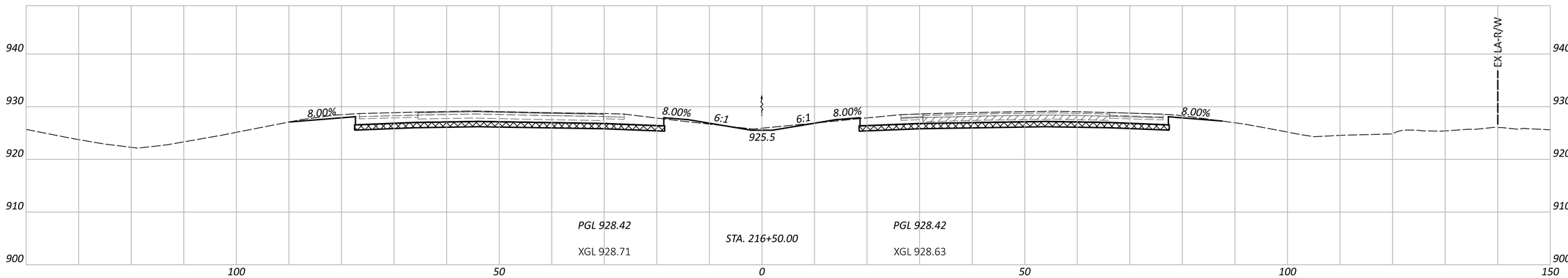
DESIGNER
ARM

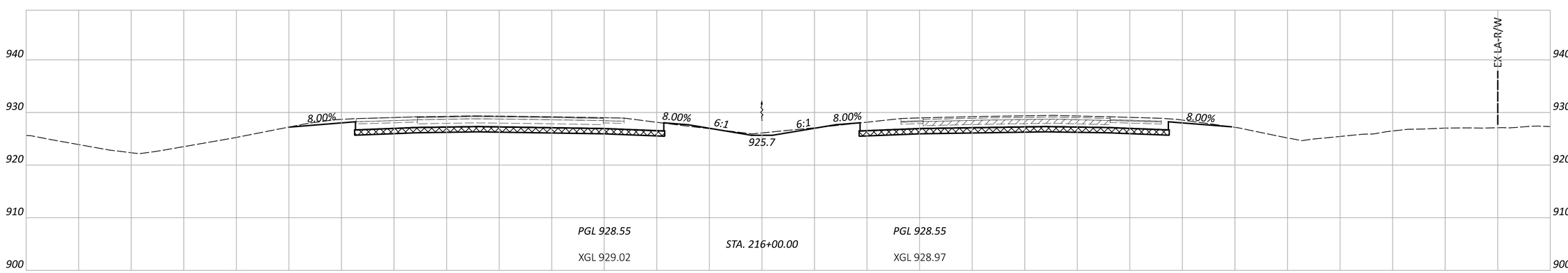
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.371 TOTAL 577







CROSS SECTIONS - IR 70
STA 216+00.00 TO STA 217+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.372 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 216+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:32 PM USER: AMerrill
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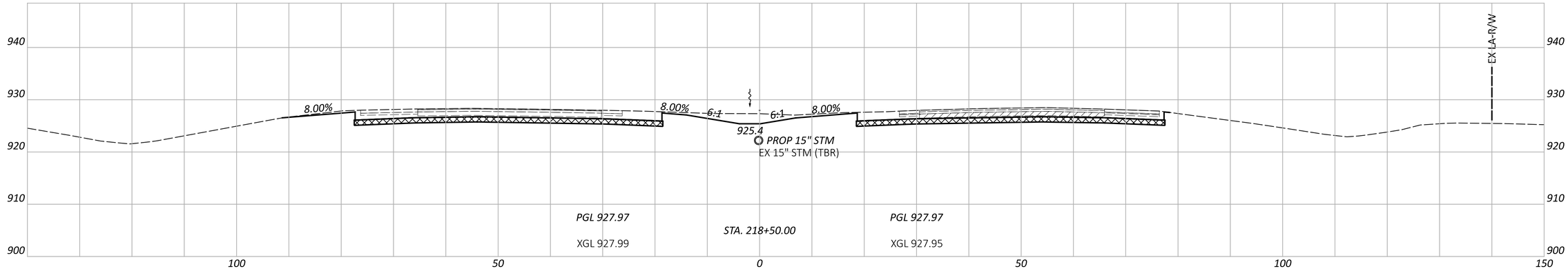

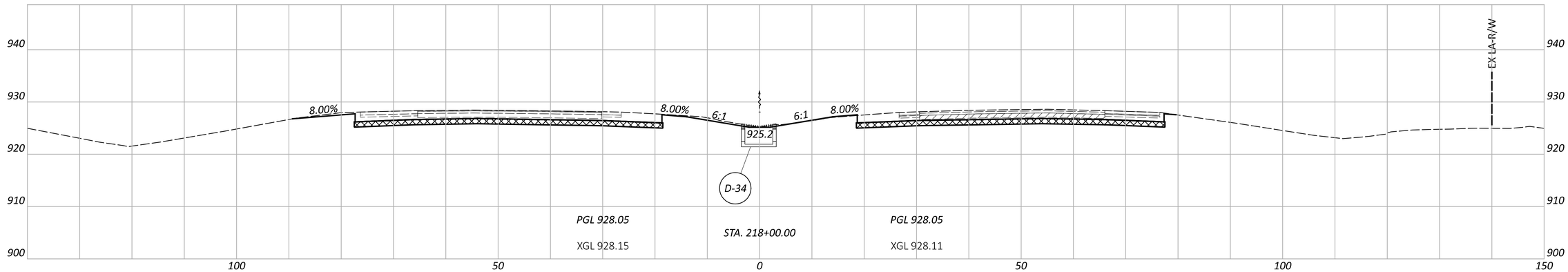

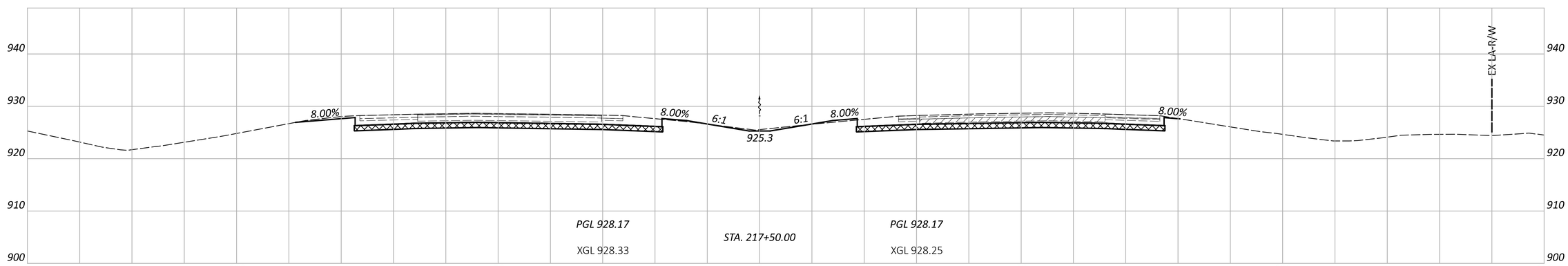

CROSS SECTIONS - IR 70
STA 217+50.00 TO STA 218+50.00

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.373
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - 217+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:36 PM USER: AMerrill
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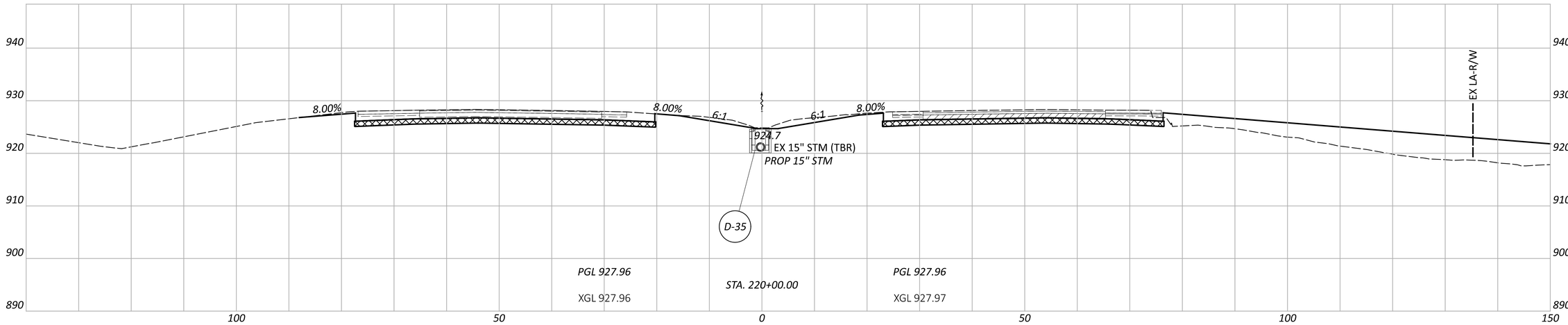

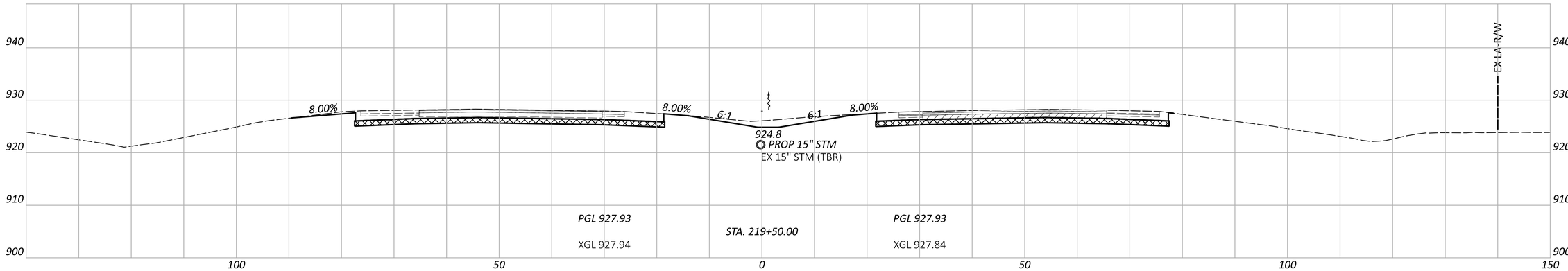

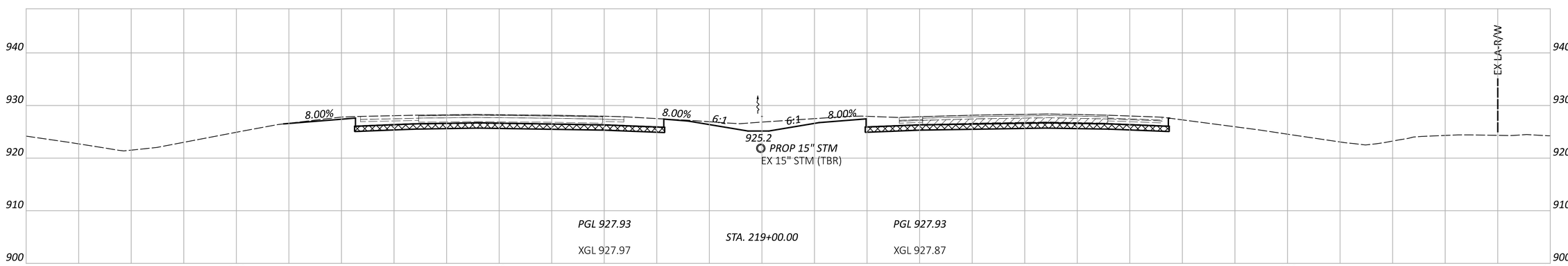

CROSS SECTIONS - IR 70
STA 219+00.00 TO STA 220+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER ARM
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.374 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 219+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:40 PM USER: AMerrill
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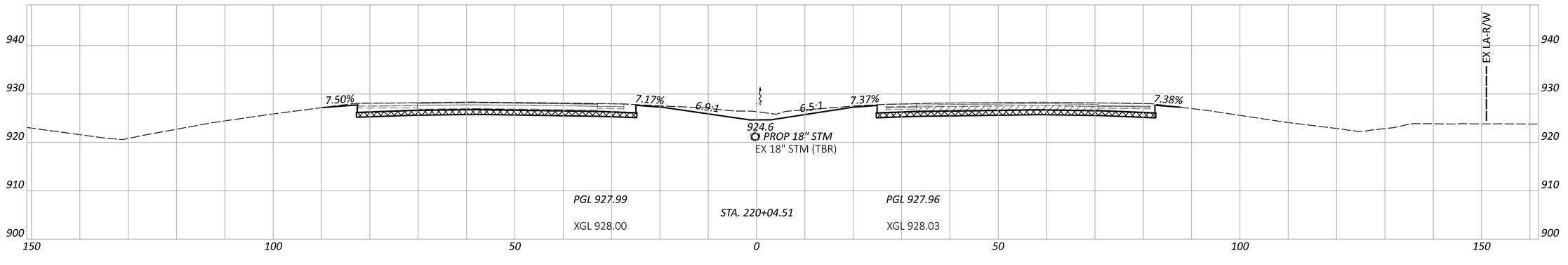

FRA-70-00.00

MODEL: CLP_I070 - 220+04.51 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:43 PM USER: AMerrill
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CROSS SECTIONS - IR 70
STA 220+04.51

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.375 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 220+29.51 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:45 PM USER: AMerrill
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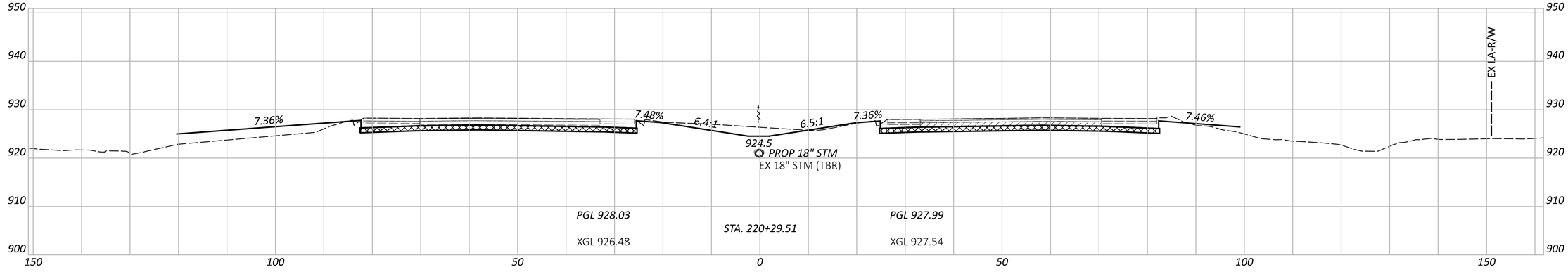
CROSS SECTIONS - IR 70
STA 220+29.51



DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.376 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 221+16.43 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:47 PM USER: AMerrill
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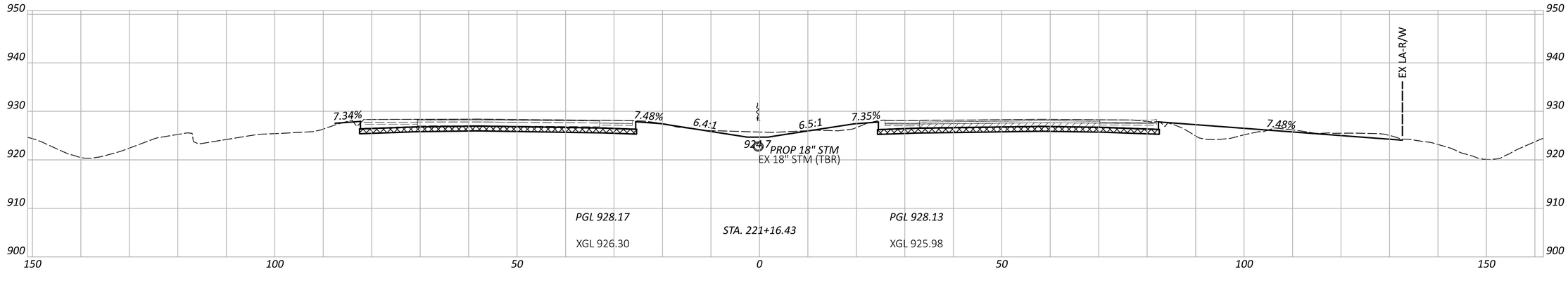
CROSS SECTIONS - IR 70
STA 221+16.23



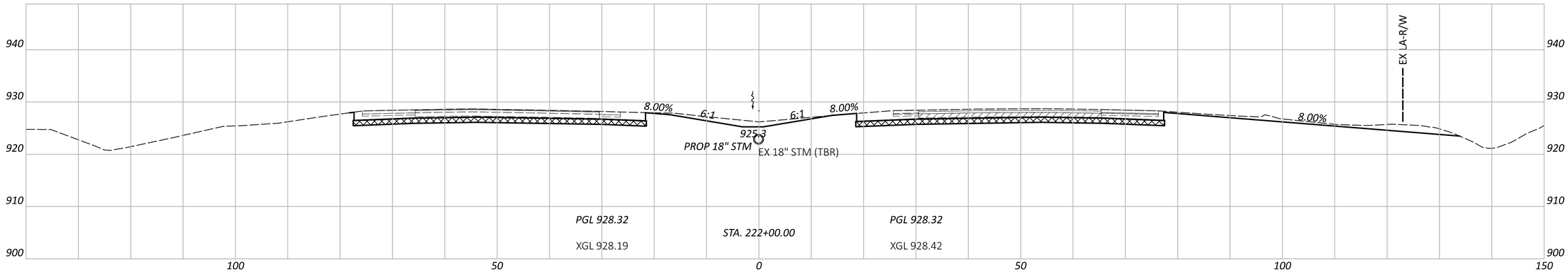
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

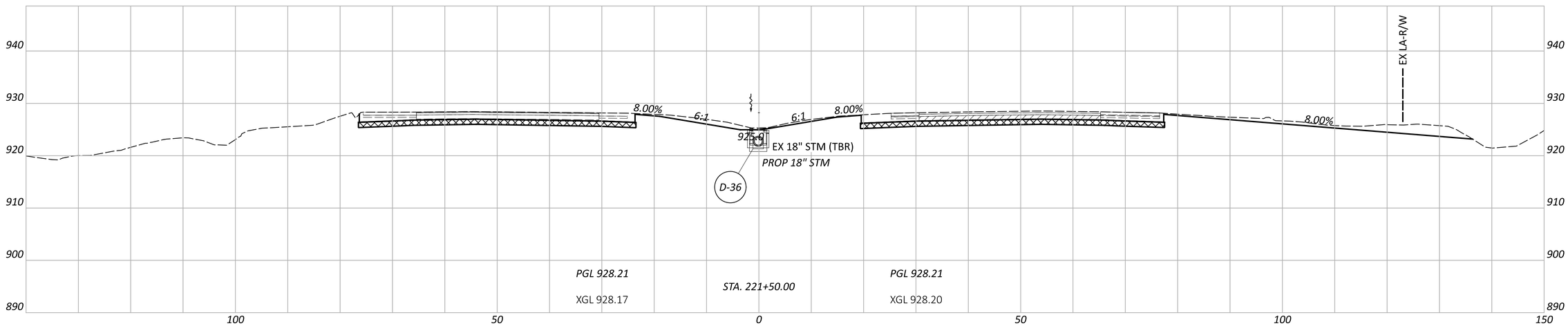
DESIGNER
ARM

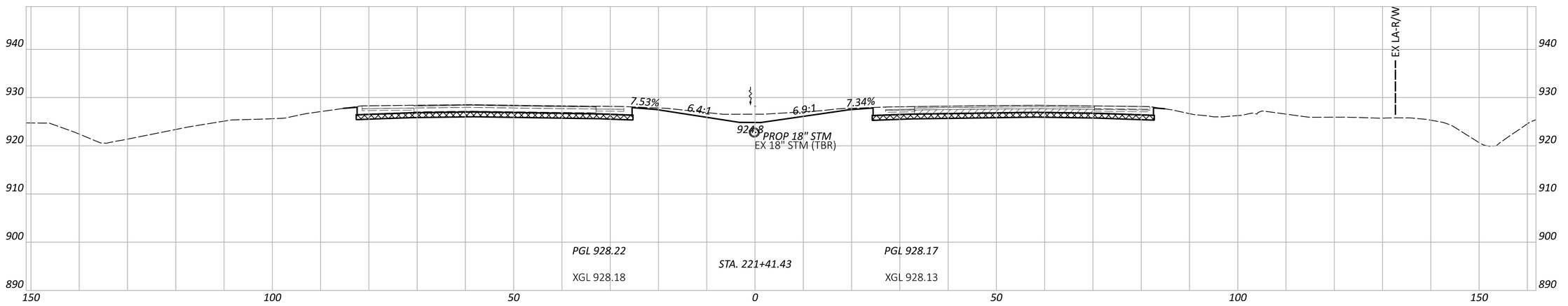
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.377 | TOTAL 577







CROSS SECTIONS - IR 70
STA 221+41.43 TO STA 222+00.00

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.378 TOTAL 577

FRA-70-00.00

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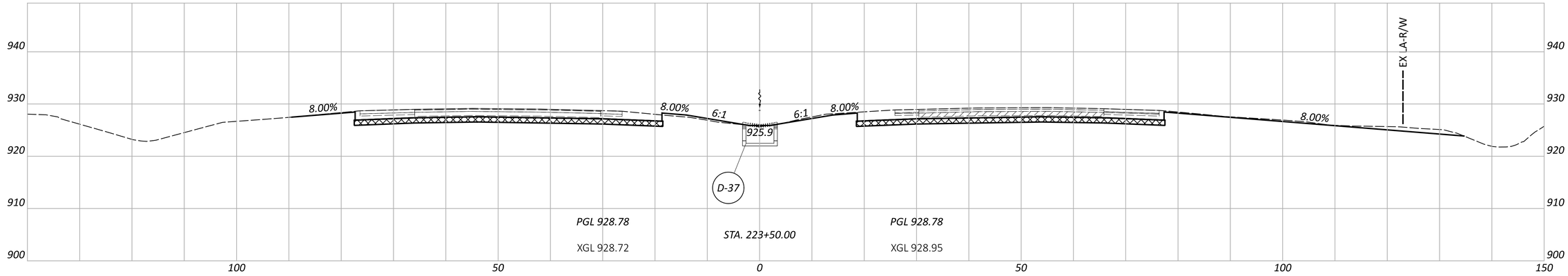

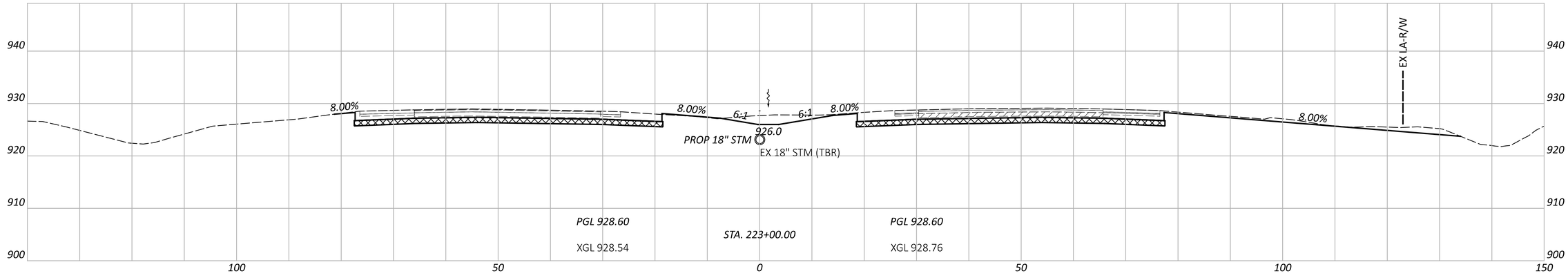

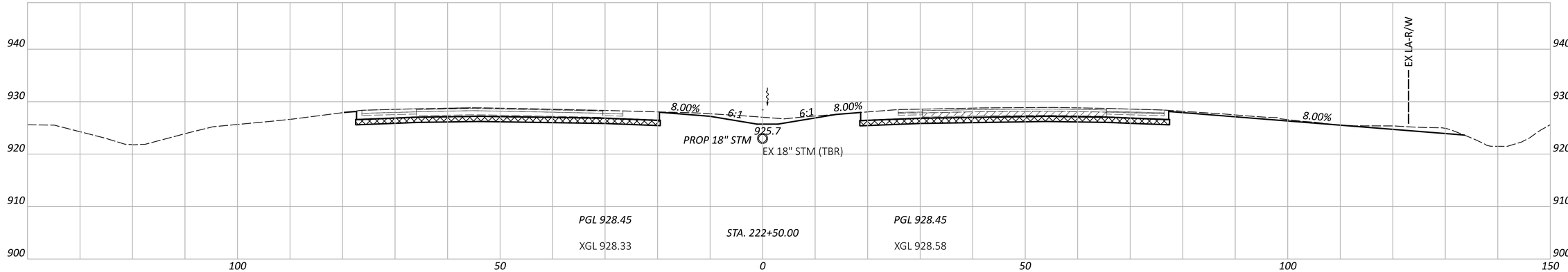

CROSS SECTIONS - IR 70
STA 222+50.00 TO STA 223+50.00

FRA-70-00.00

MODEL: CLP_I070 - 222+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:52 PM USER: AMerrill
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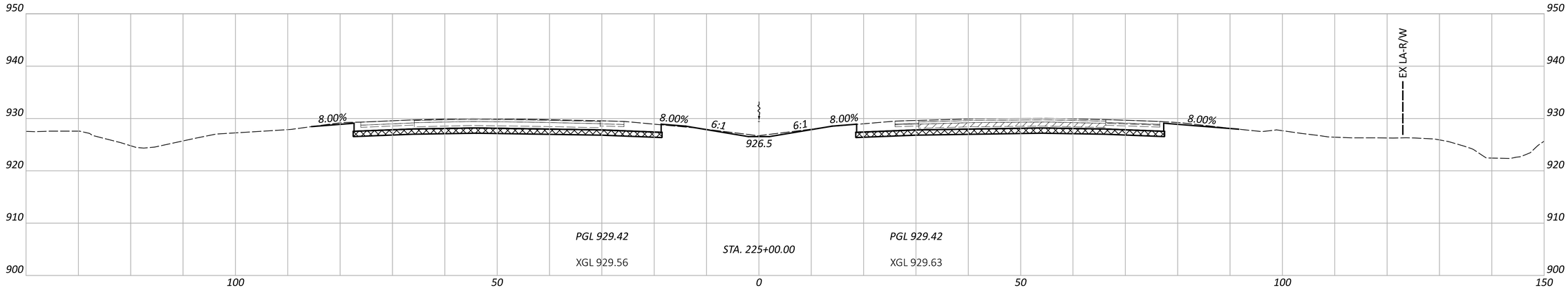
DESIGN AGENCY
STRUCTUREPOINT

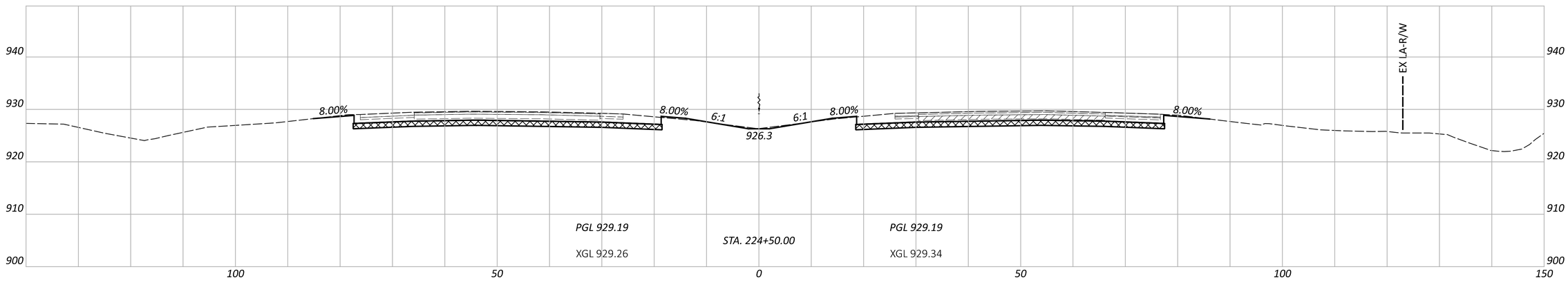
DESIGNER
ARM

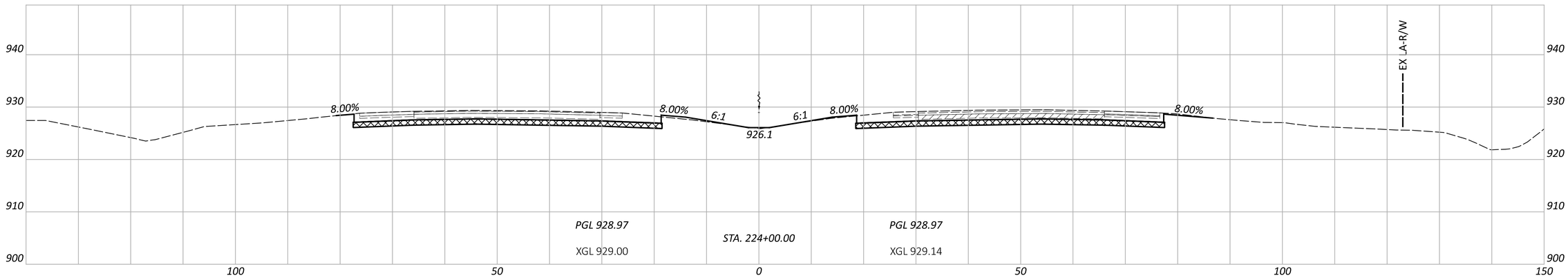
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.379 | TOTAL 577







CROSS SECTIONS - IR 70
STA 224+00.00 TO STA 225+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.380 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 224+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:56 PM USER: AMerrill
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FRA-70-00.00

MODEL: CLP_I070 - 225+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:34:59 PM USER: AMerrill
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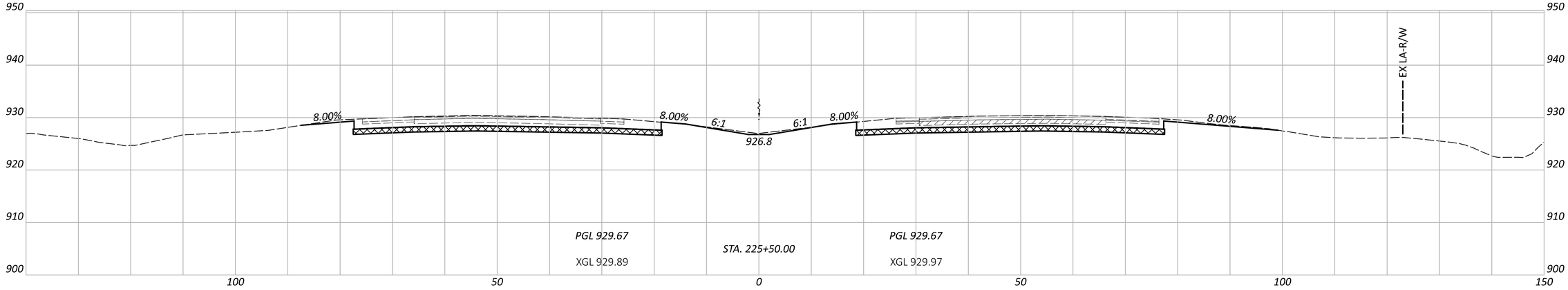
CROSS SECTIONS - IR 70
STA 225+50.00



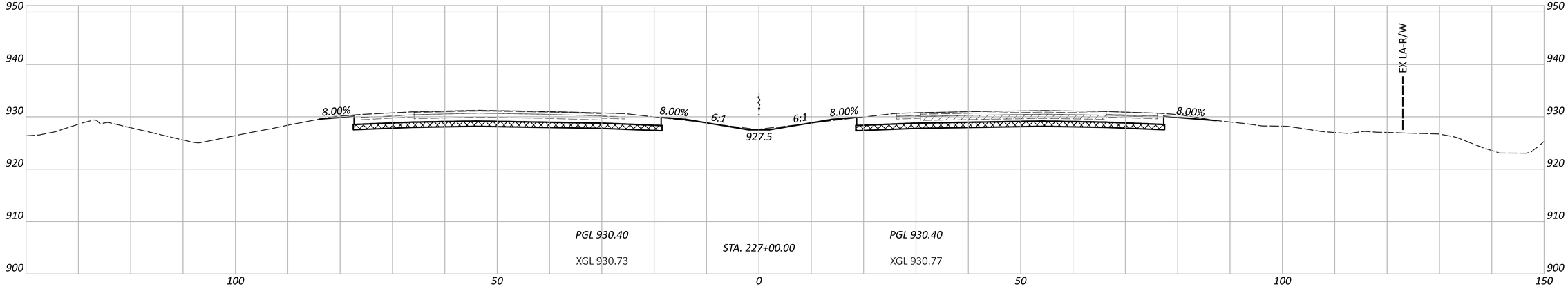
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

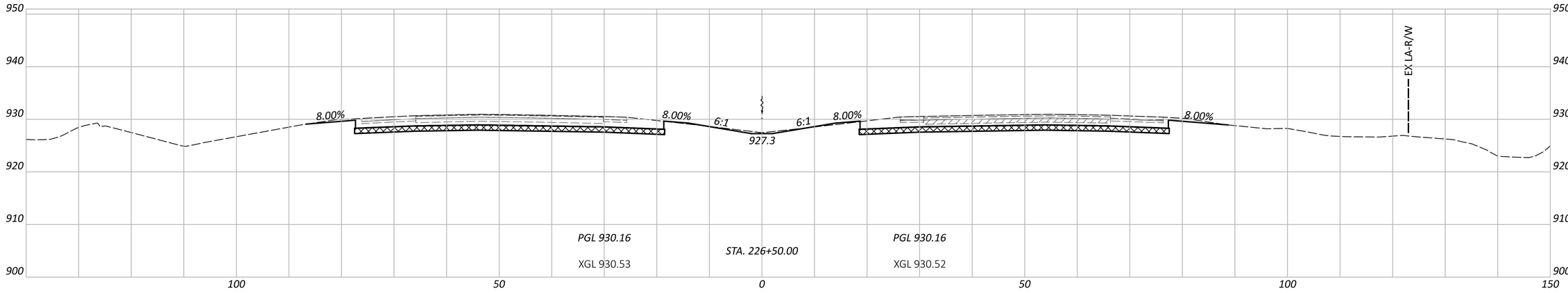
DESIGNER
ARM

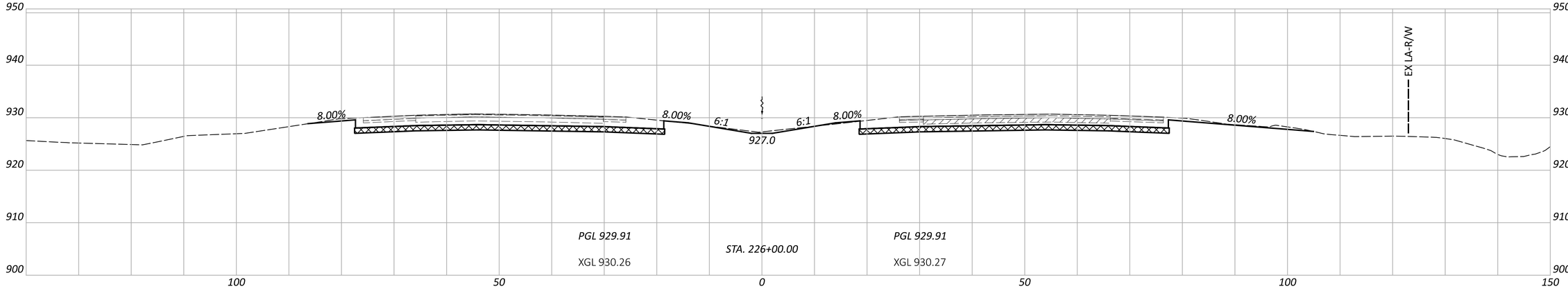
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.381 | TOTAL 577







CROSS SECTIONS - IR 70
STA 226+00.00 TO STA 227+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.382 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 226+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:35:03 PM USER: AMerrill
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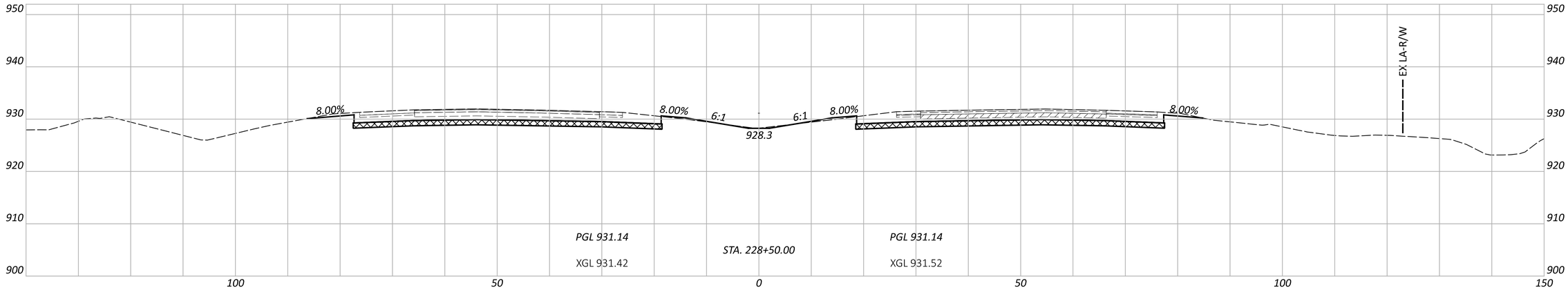

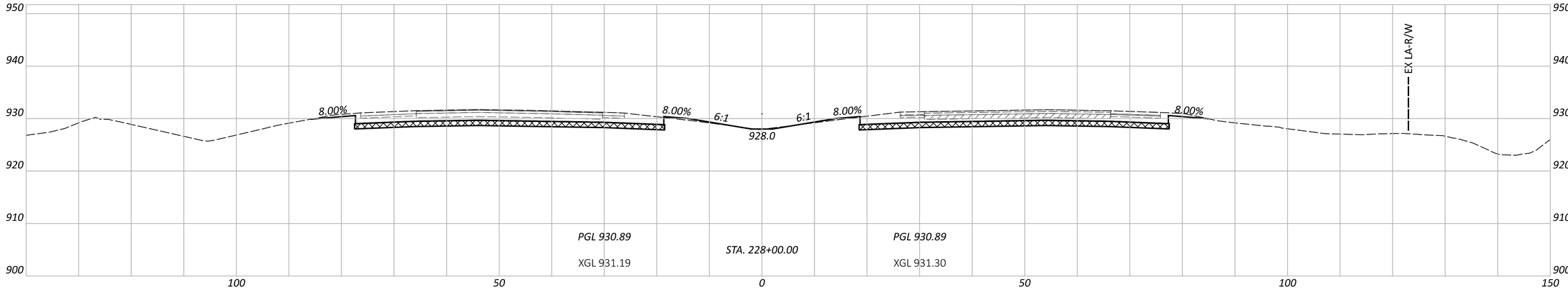

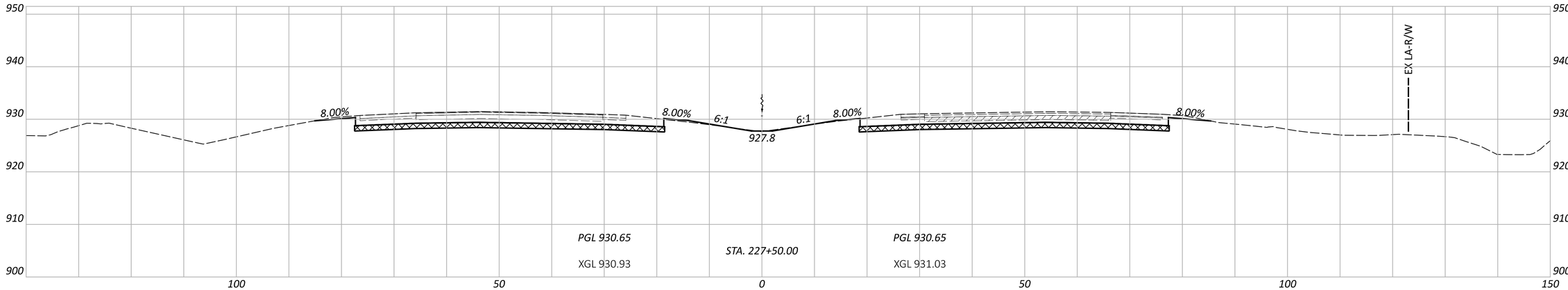

FRA-70-00.00

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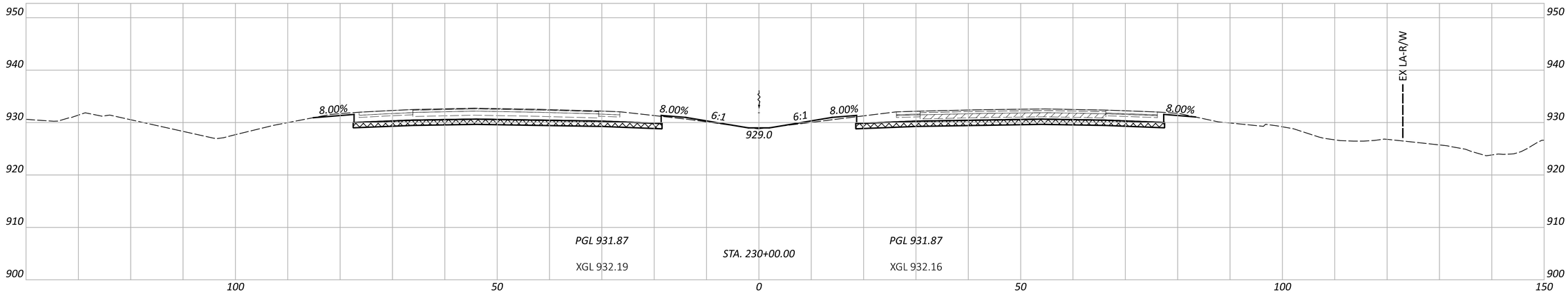
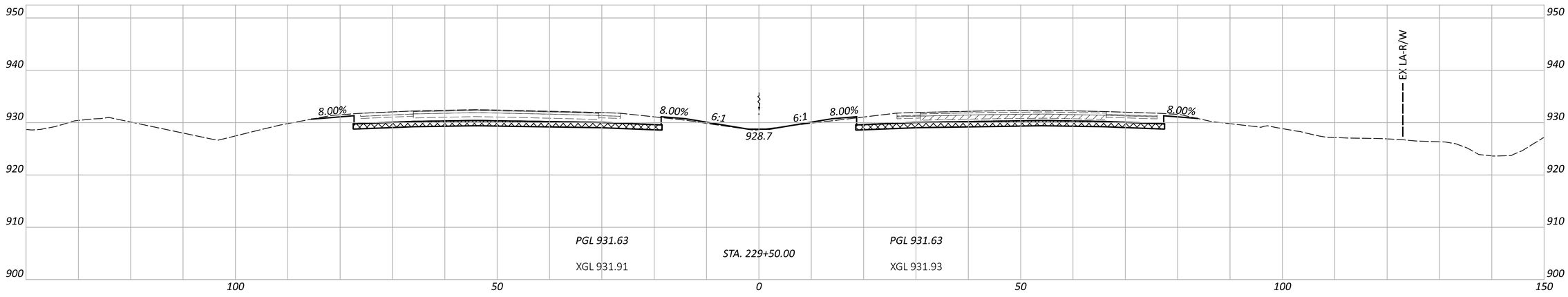
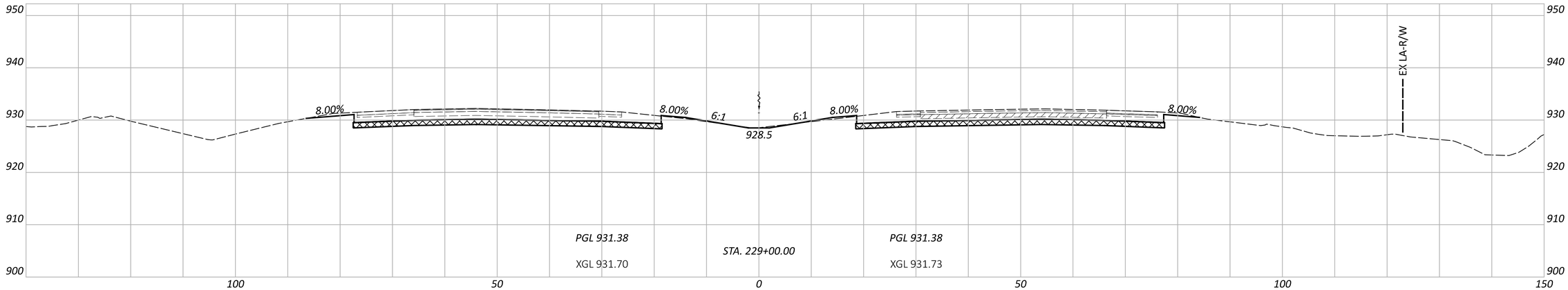
CROSS SECTIONS - IR 70
STA 227+50.00 TO STA 228+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.383
TOTAL	577







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CROSS SECTIONS - IR 70
STA 229+00.00 TO STA 230+00.00

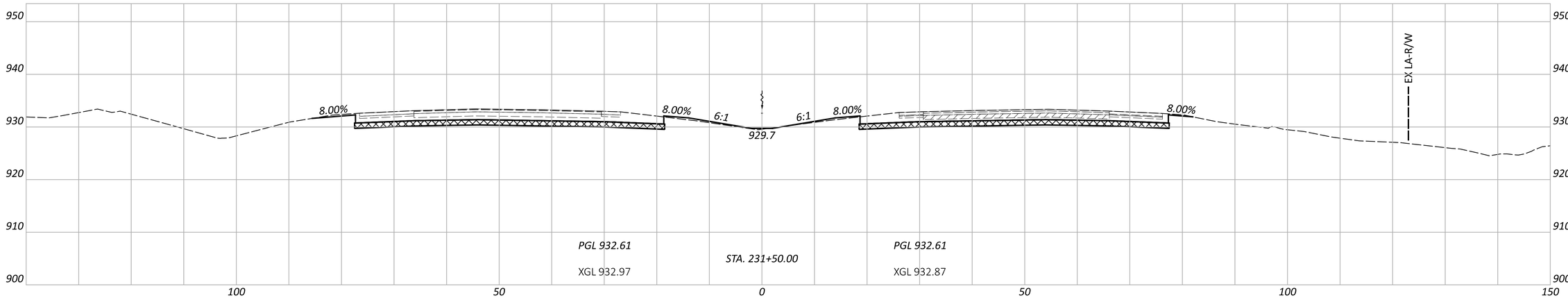
DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

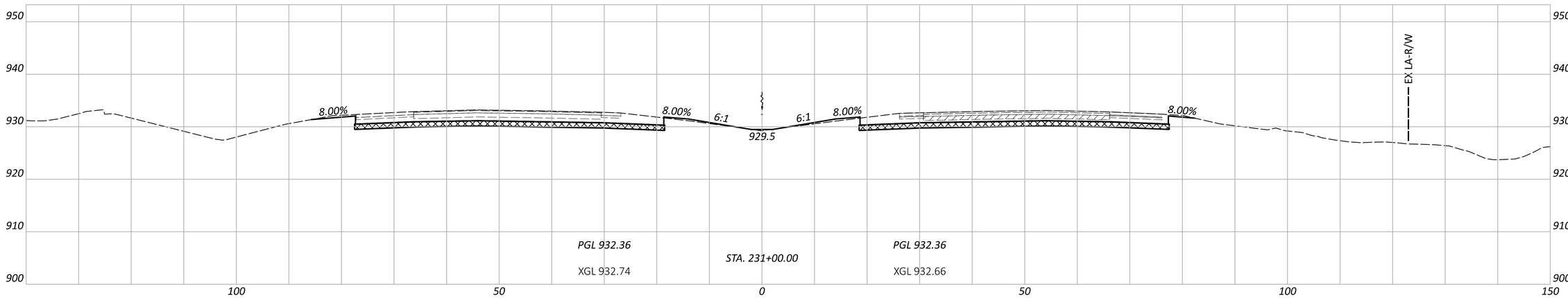
DESIGNER
ARM

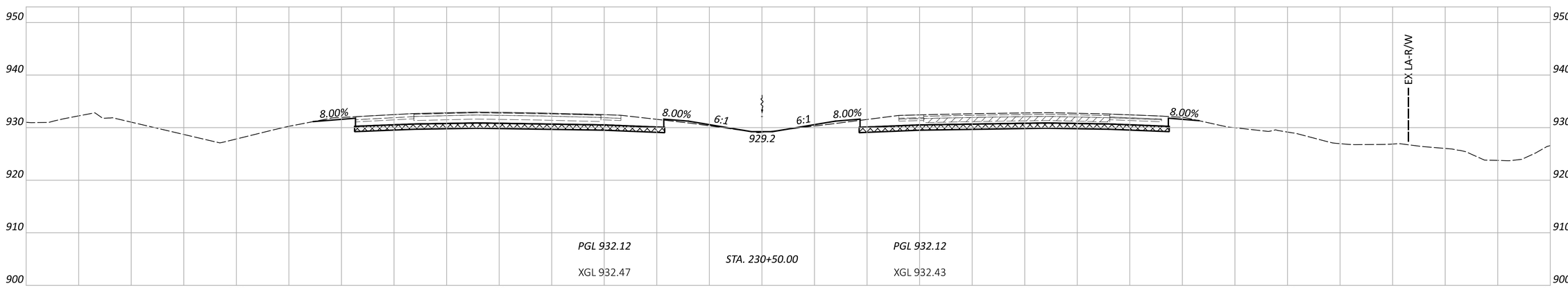
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.384 TOTAL 577







FRA-70-00.00

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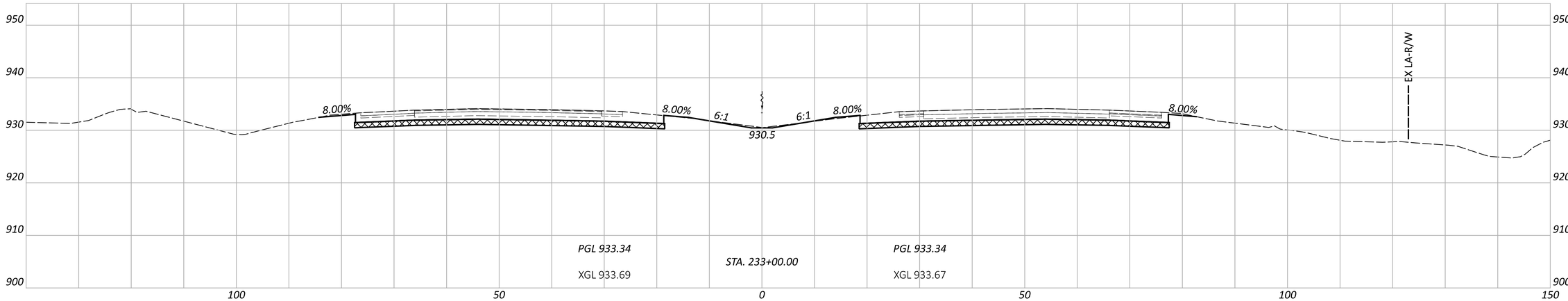
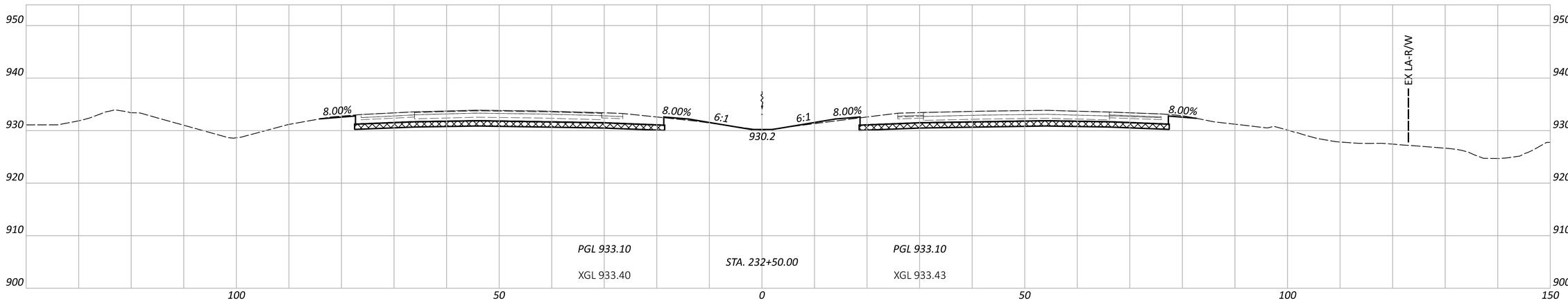
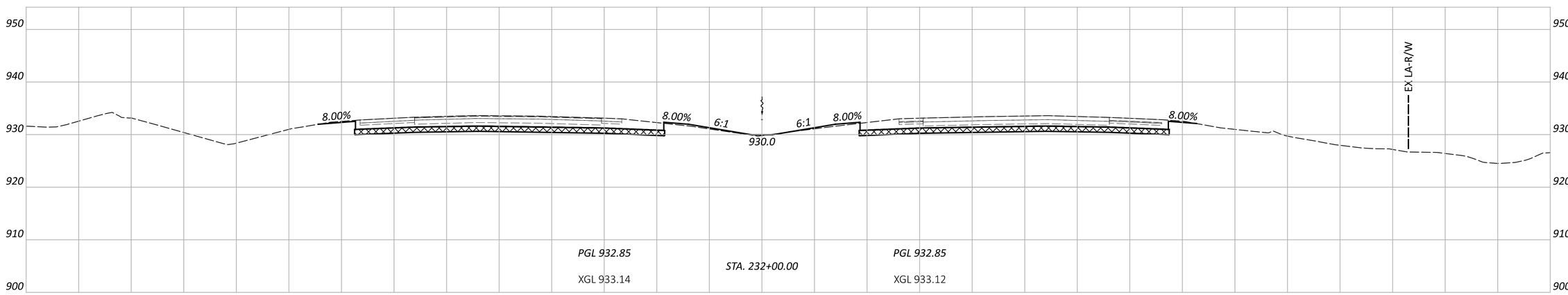
CROSS SECTIONS - IR 70
STA 230+50.00 TO STA 231+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.385
TOTAL	577







CROSS SECTIONS - IR 70
STA 232+00.00 TO STA 233+00.00

FRA-70-00.00

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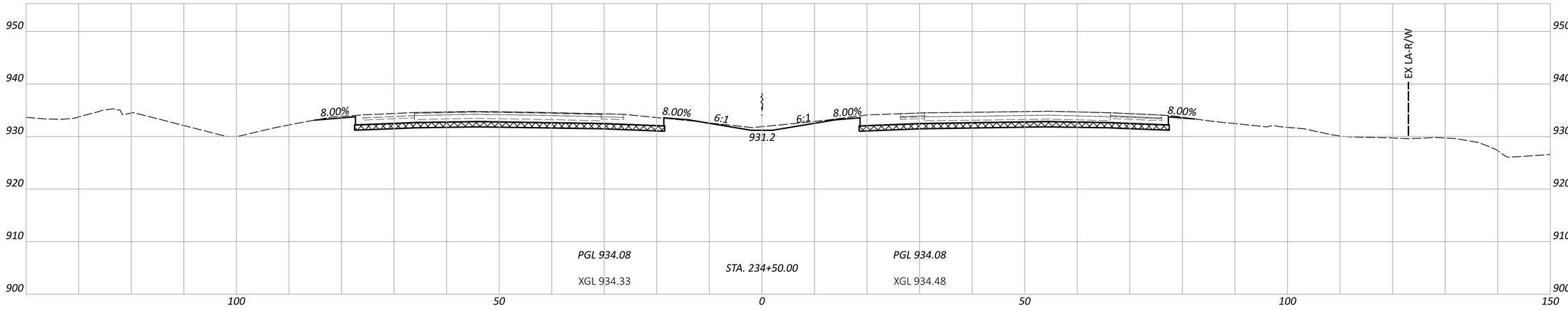
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

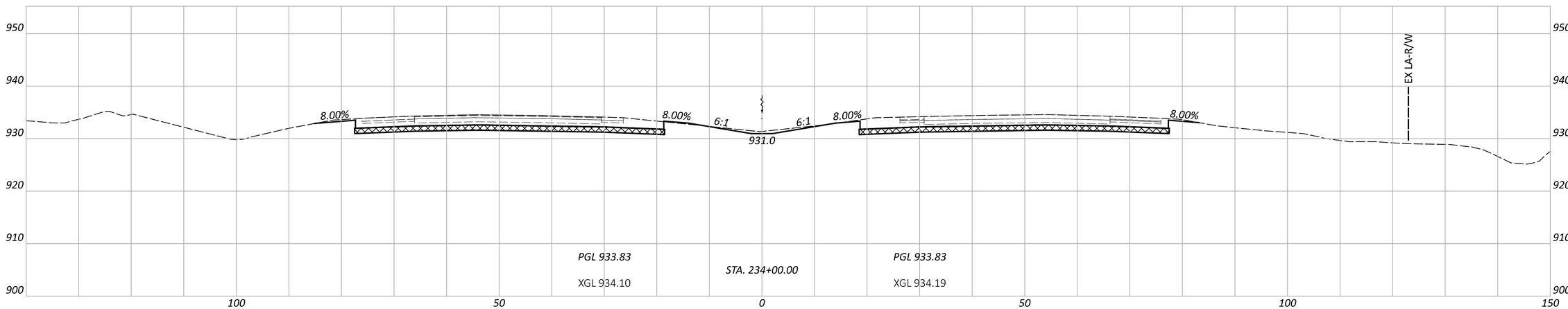
DESIGNER
ARM

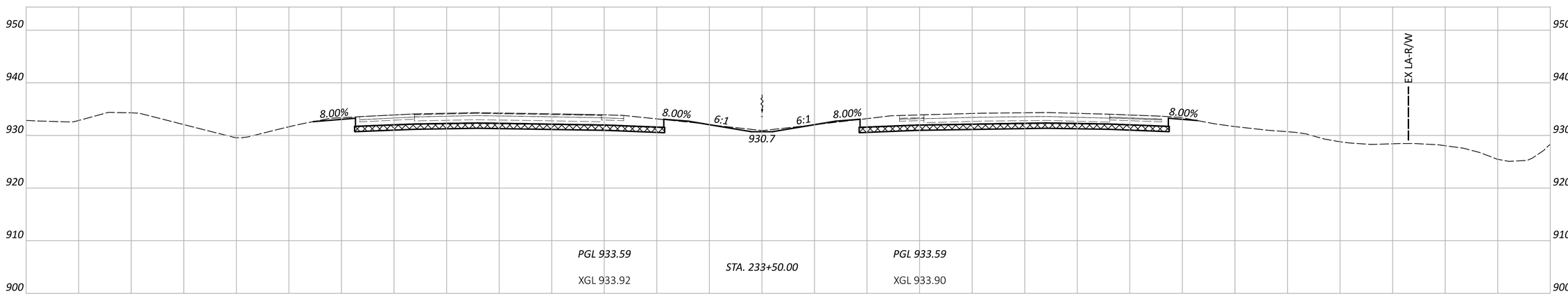
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.386 TOTAL 577







CROSS SECTIONS - IR 70
STA 233+50.00 TO STA 234+50.00

FRA-70-00.00

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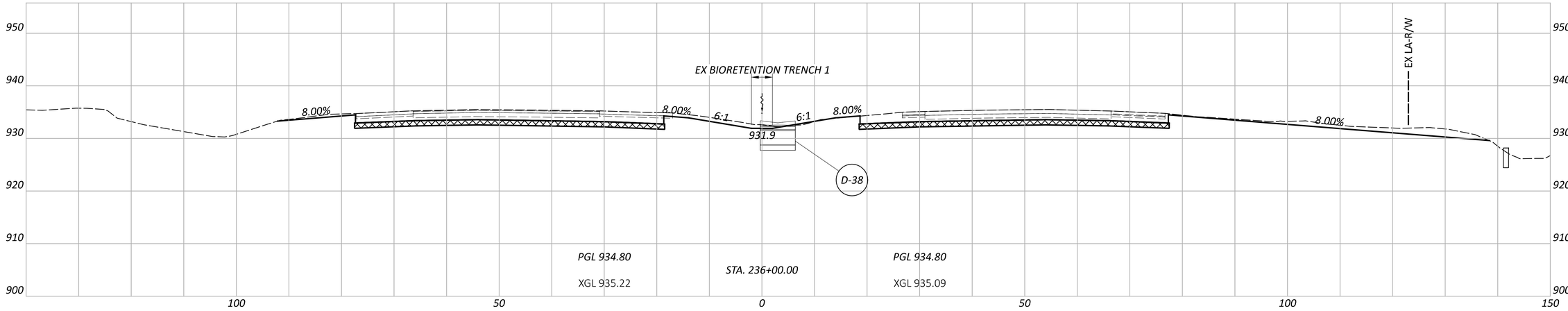
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

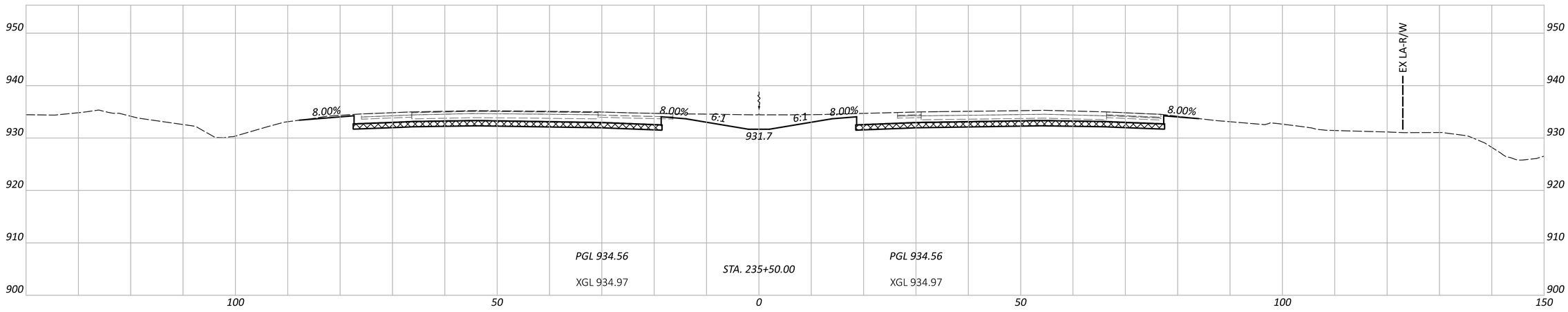
DESIGNER
ARM

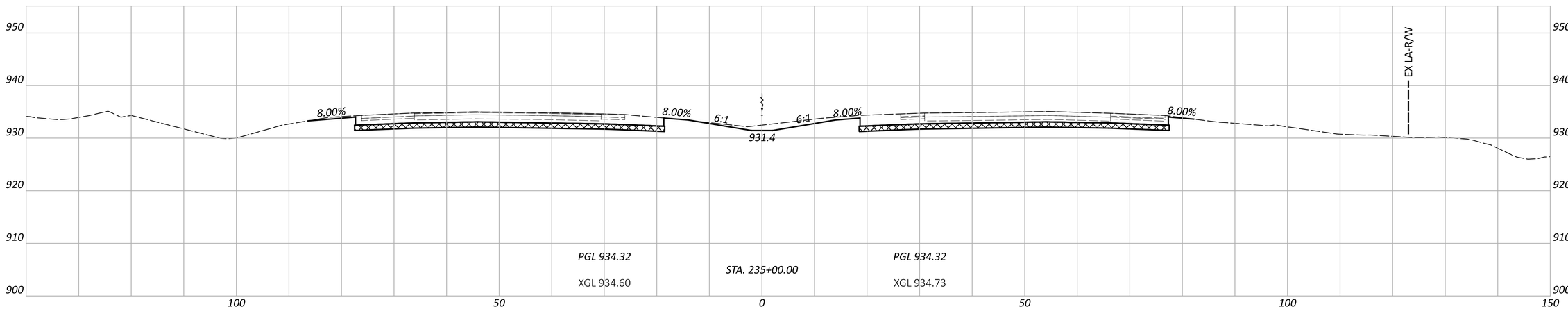
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.387 | TOTAL 577







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STA 235+00.00 TO STA 236+00.00

FRA-70-00.00

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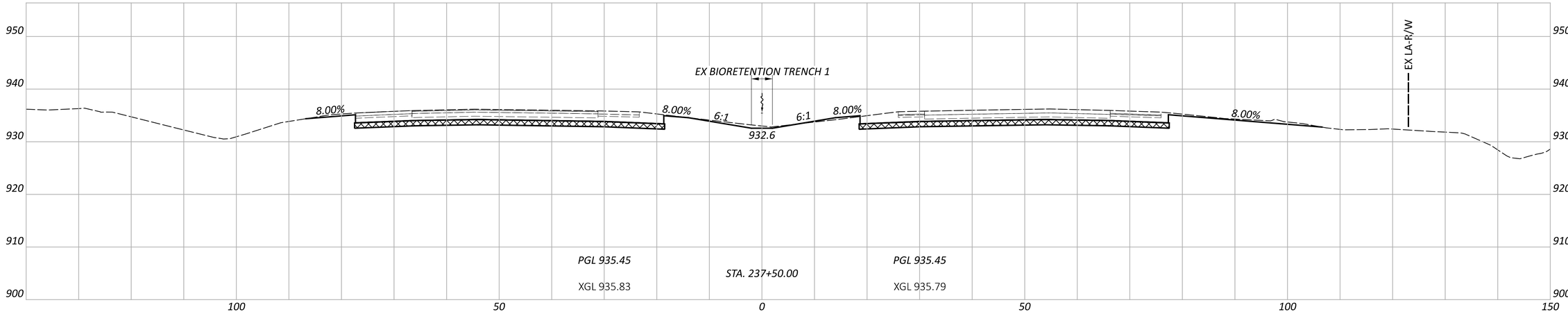
DESIGN AGENCY
STRUCTUREPOINT LLC

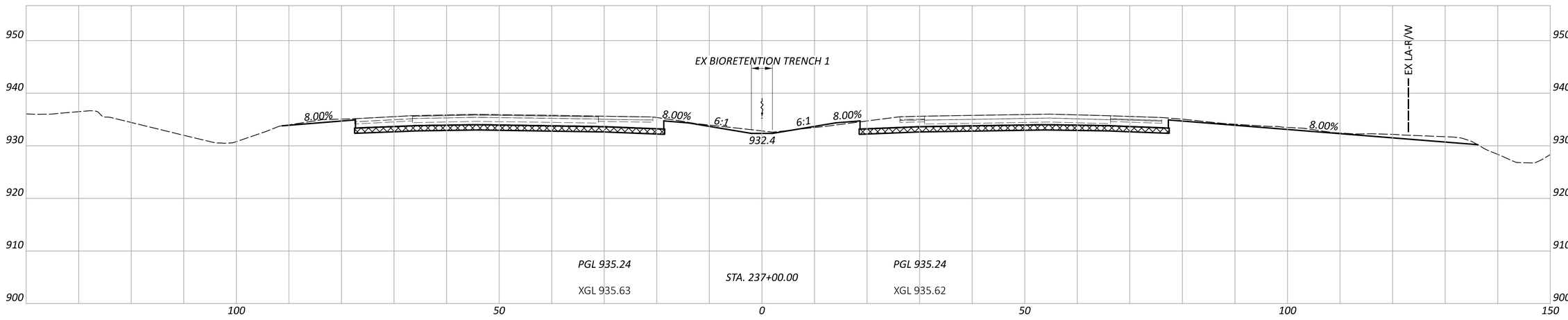
DESIGNER
ARM

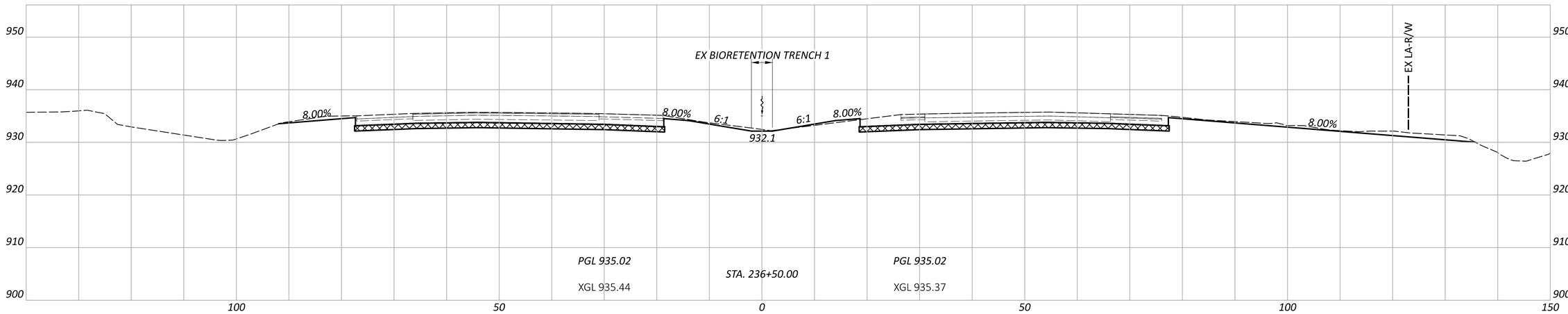
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.388 TOTAL 577







CROSS SECTIONS - IR 70
STA 236+50.00 TO STA 237+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.389 | TOTAL 577

FRA-70-00.00

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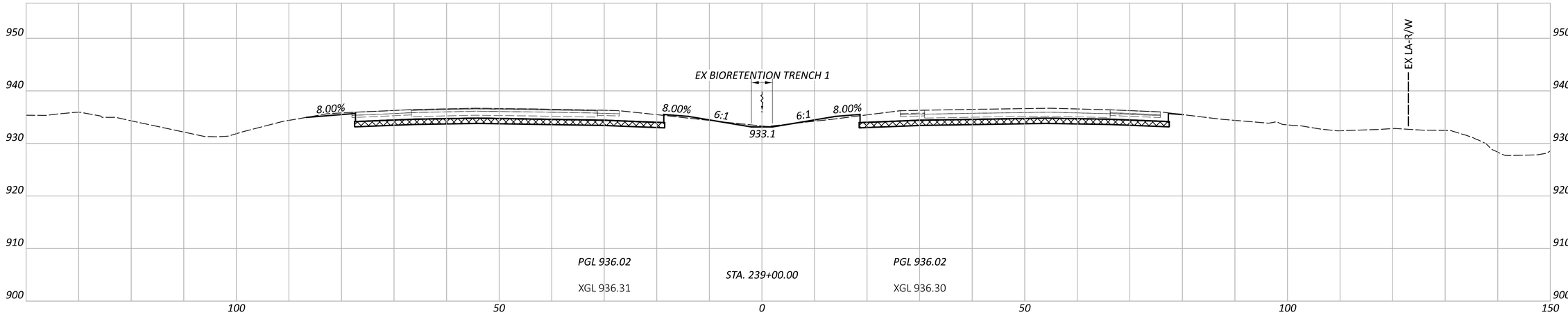

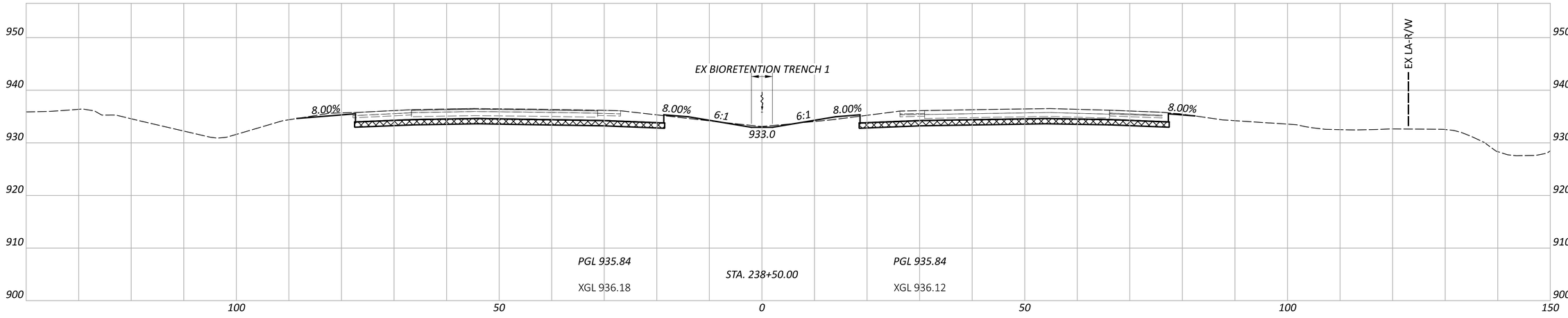

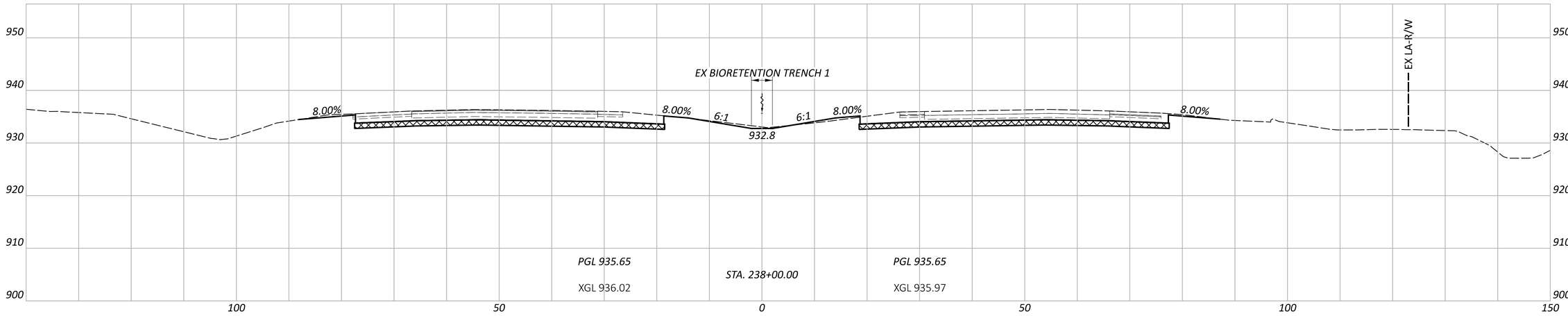

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STA 238+00.00 TO STA 239+00.00

FRA-70-00.00

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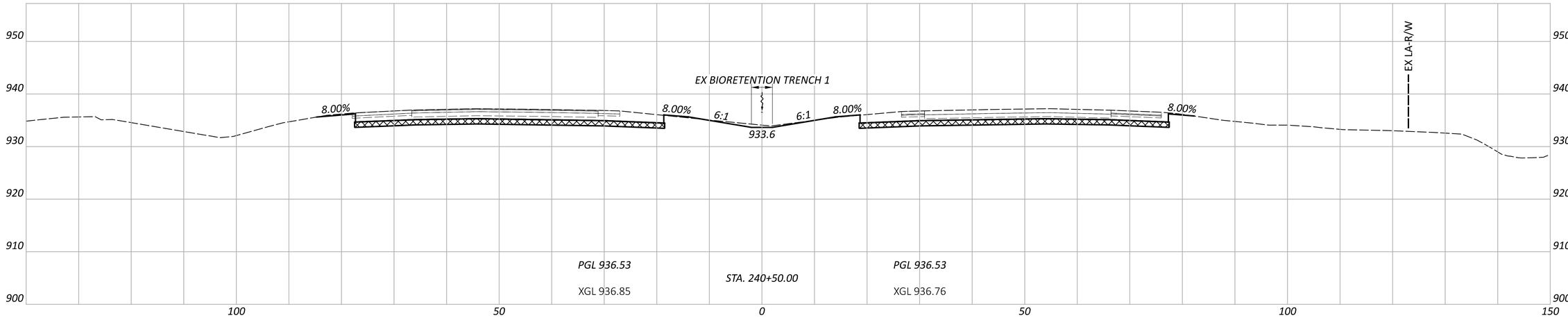
DESIGN AGENCY
STRUCTUREPOINT

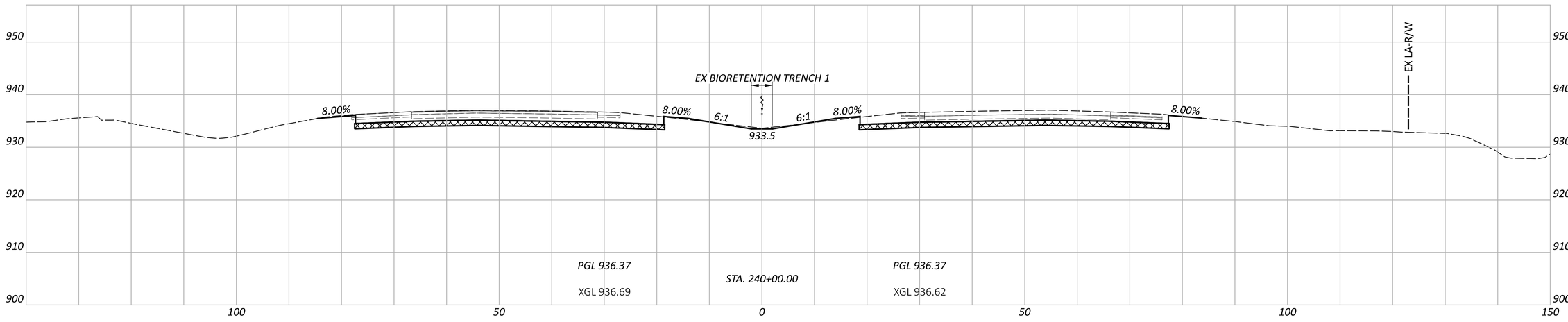
DESIGNER
ARM

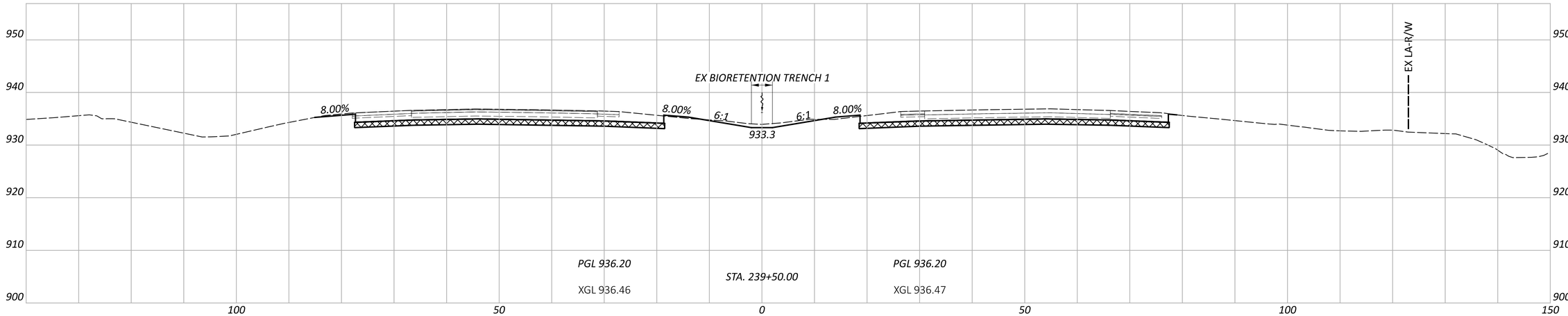
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.390 | TOTAL 577







CROSS SECTIONS - IR 70
STA 239+50.00 TO STA 240+50.00

FRA-70-00.00

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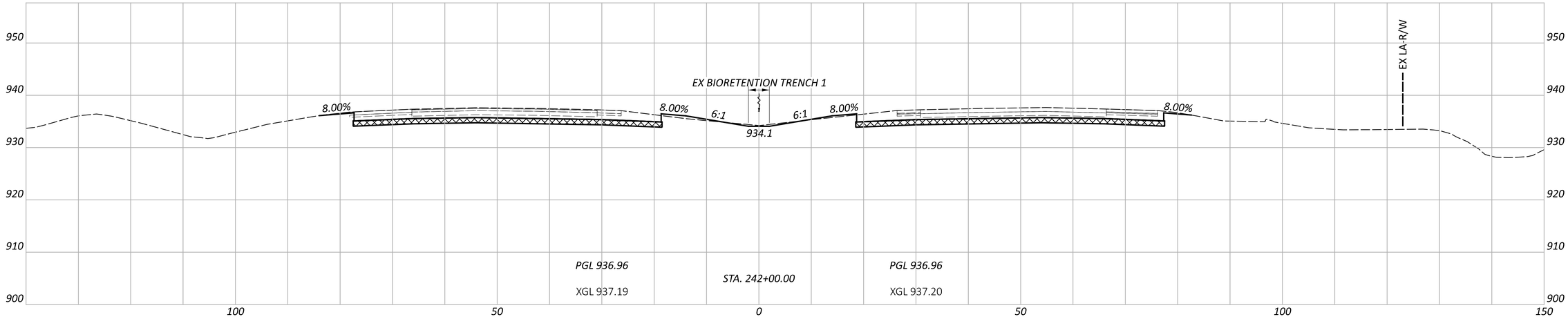
DESIGN AGENCY
MERRIMAN STRUCTUREPOINT INC.

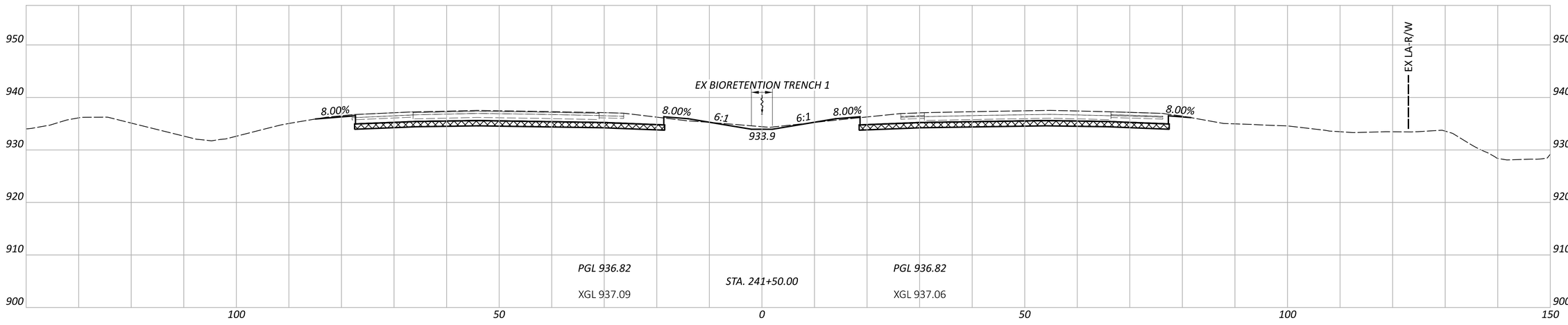
DESIGNER
ARM

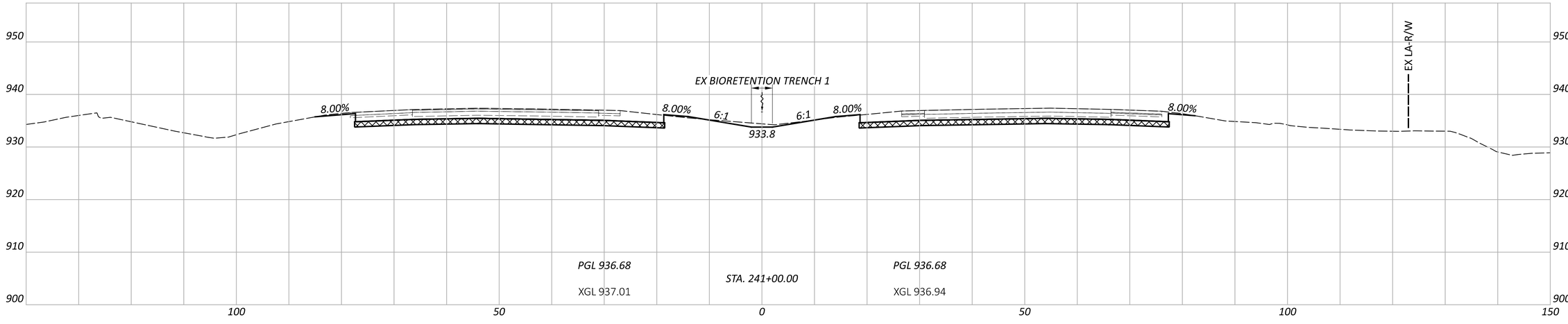
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.391 TOTAL 577







CROSS SECTIONS - IR 70
STA 241+00.00 TO STA 242+00.00

FRA-70-00.00

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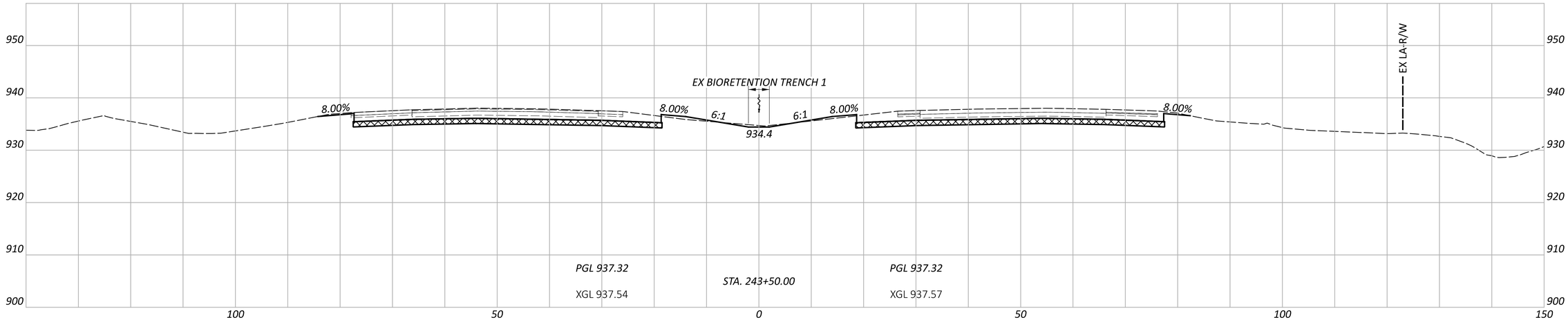
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

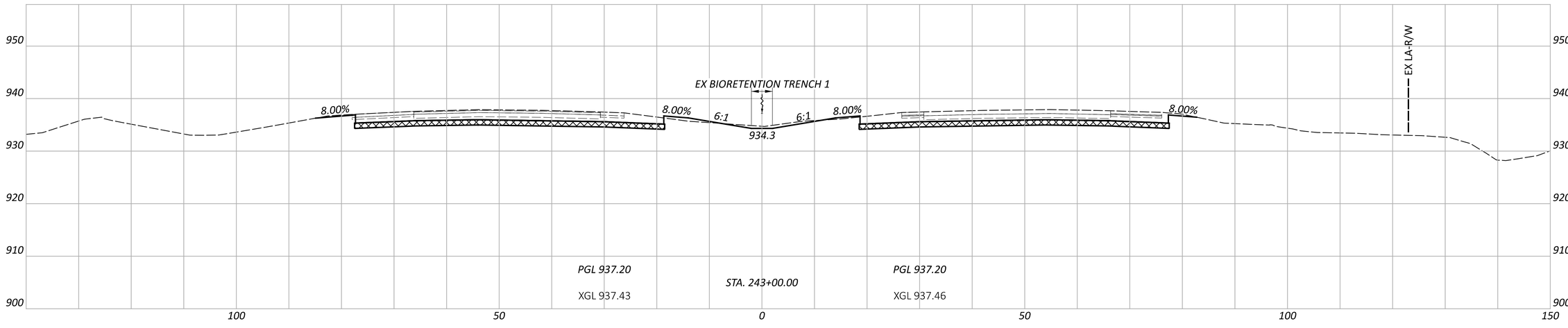
DESIGNER
ARM

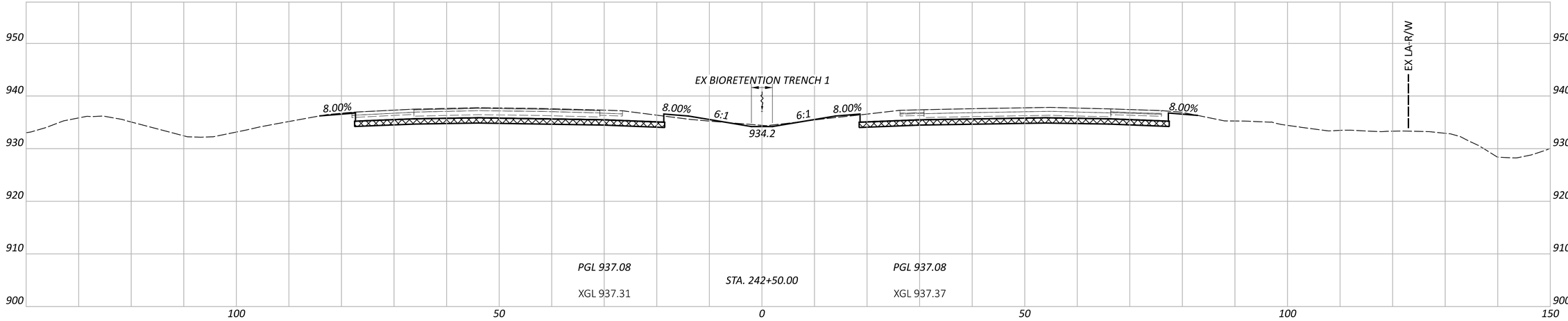
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.392 TOTAL 577







CROSS SECTIONS - IR 70
STA 242+50.00 TOSTA 243+50.00

FRA-70-00.00

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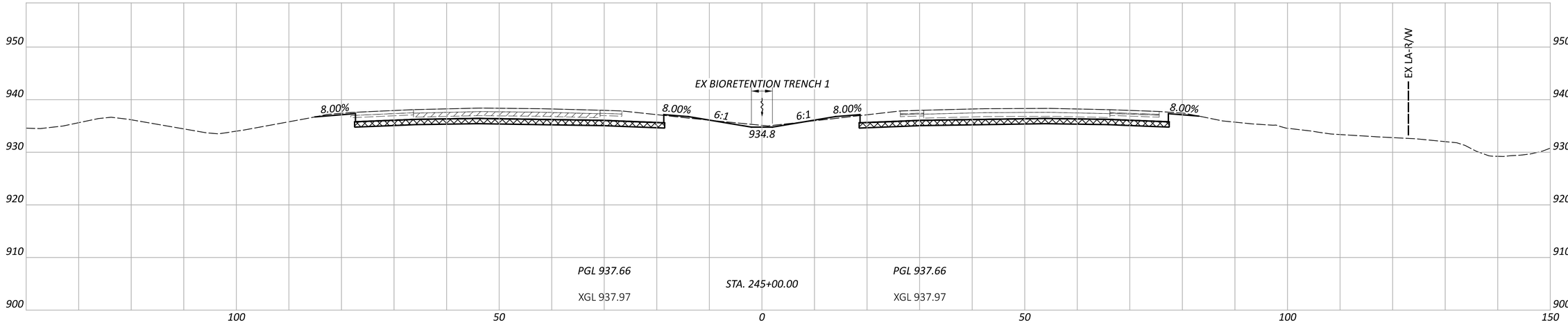
DESIGN AGENCY
AMEREIN STRUCTUREPOINT INC.

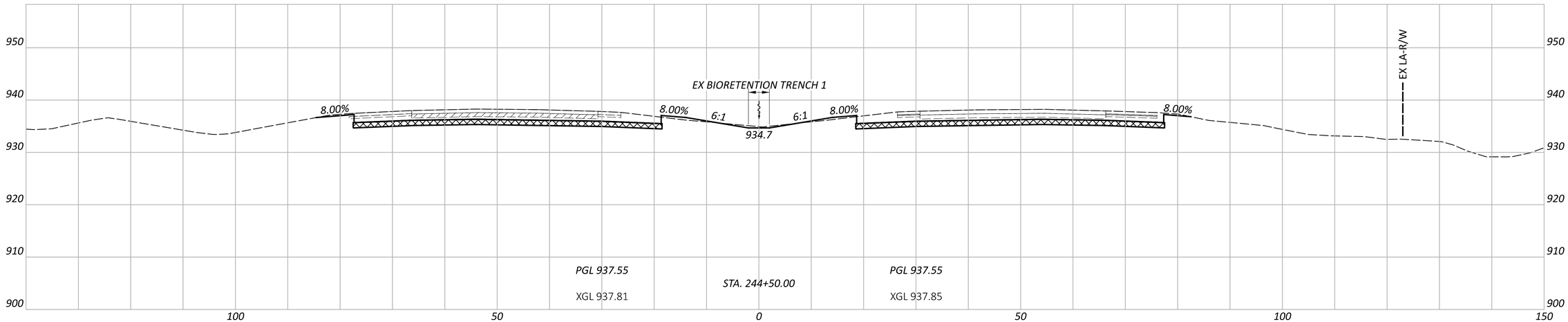
DESIGNER
ARM

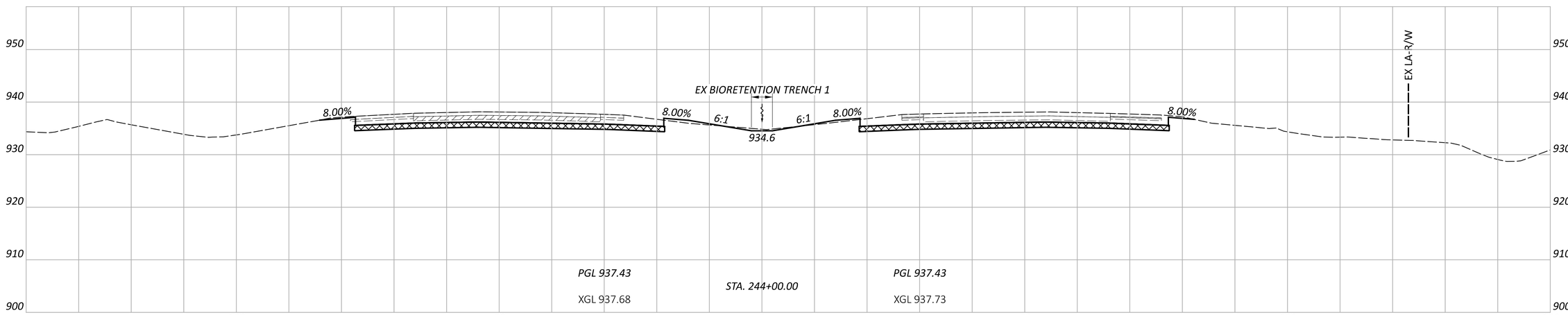
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.393 TOTAL 577







CROSS SECTIONS - IR 70
STA 244+00.00 TO STA 245+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.394 TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 244+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:35:42 PM USER: AMerrill
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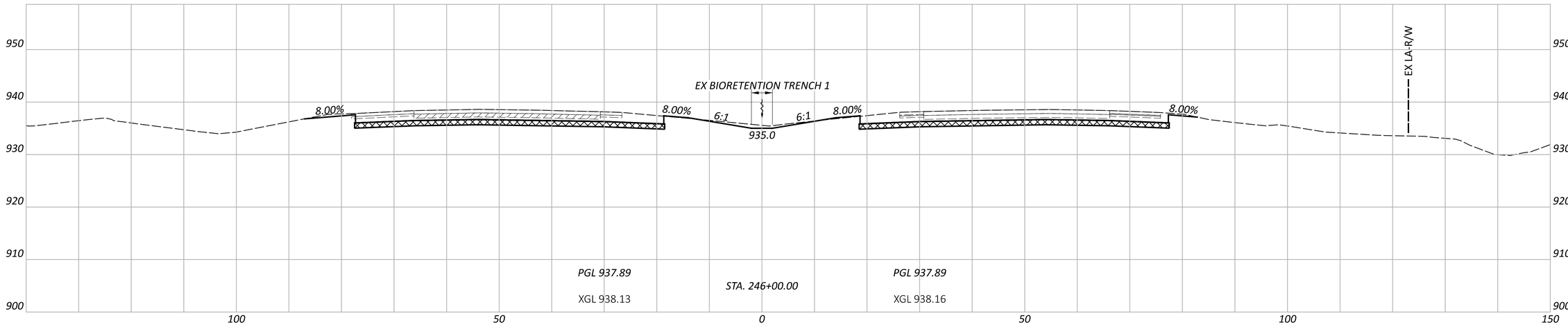

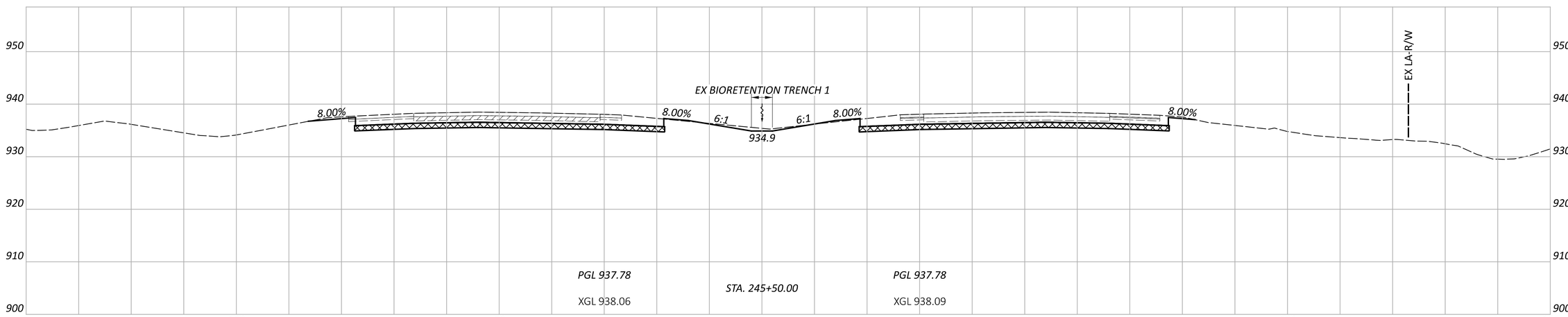

CROSS SECTIONS - IR 70
STA 245+50.00 TO STA 246+00.00

FRA-70-00.00

MODEL: CLP_I070 - 245+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:35:45 PM USER: AMerrill
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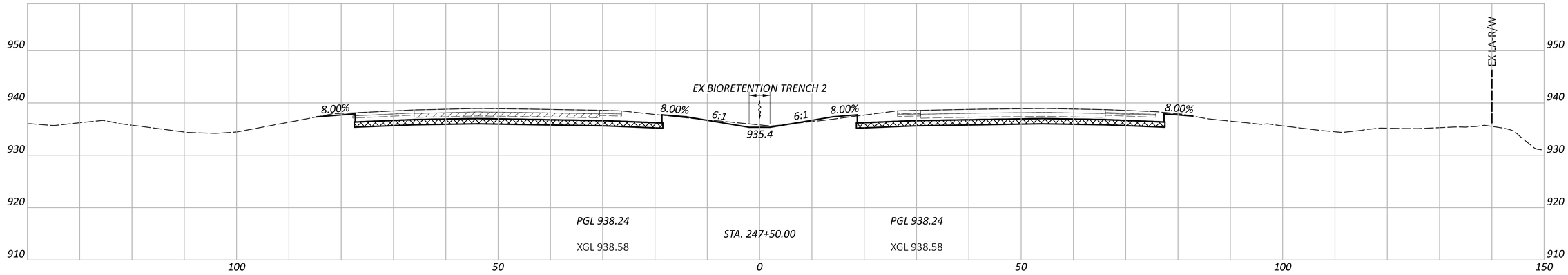
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

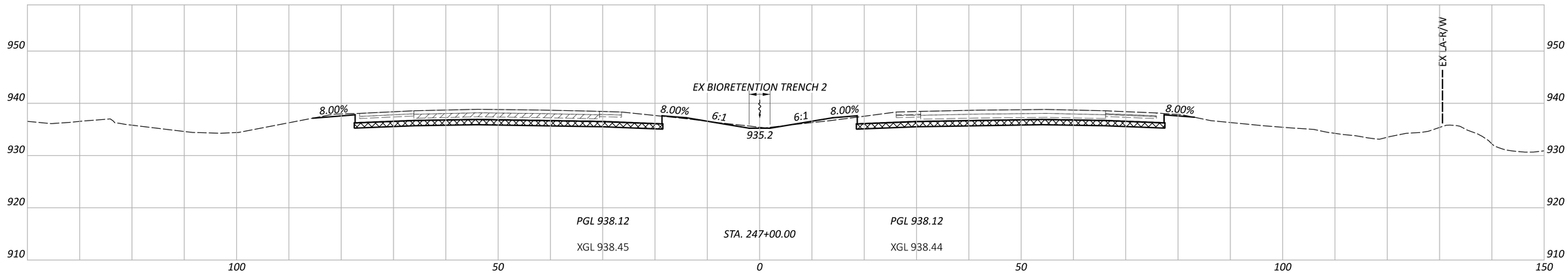
DESIGNER
ARM

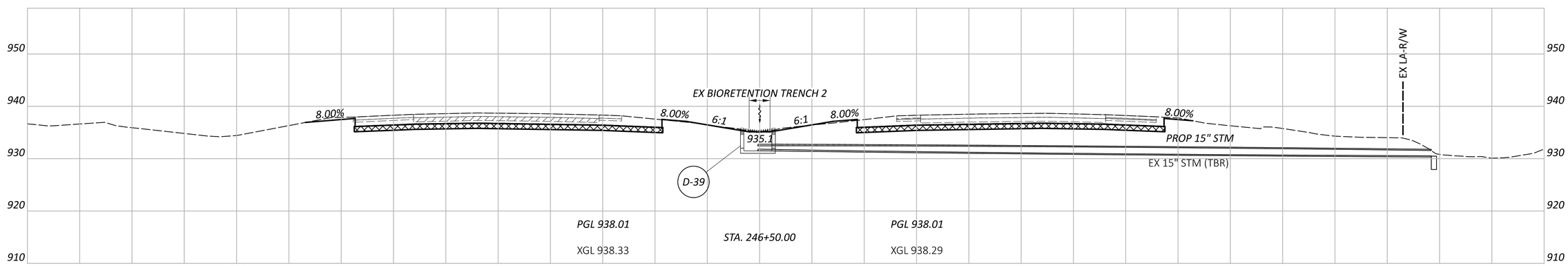
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.395 TOTAL 577







CROSS SECTIONS - IR 70
STA 246+50.00 TO STA 247+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.396 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 246+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:35:50 PM USER: AMerrill
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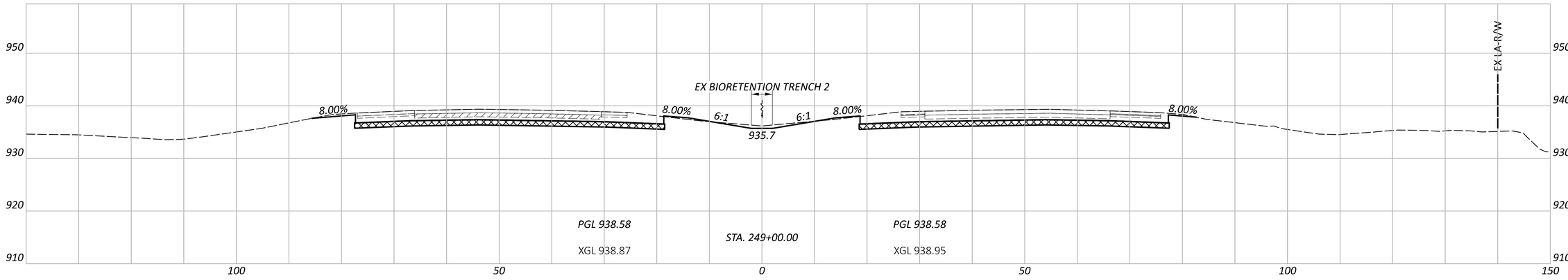

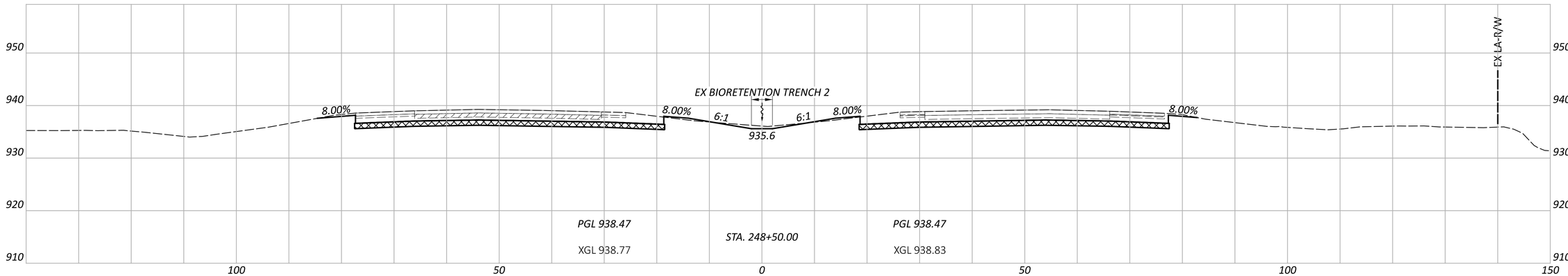

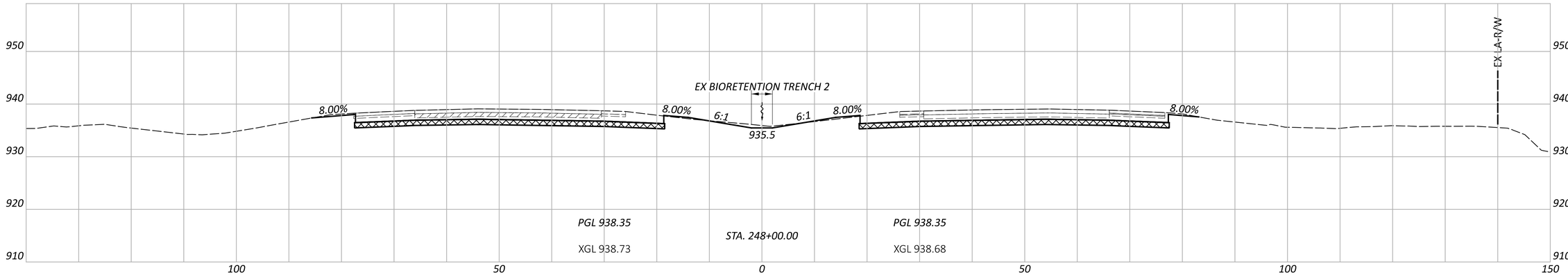

CROSS SECTIONS - IR 70
STA 248+00.00 TO STA 249+00.00

FRA-70-00.00

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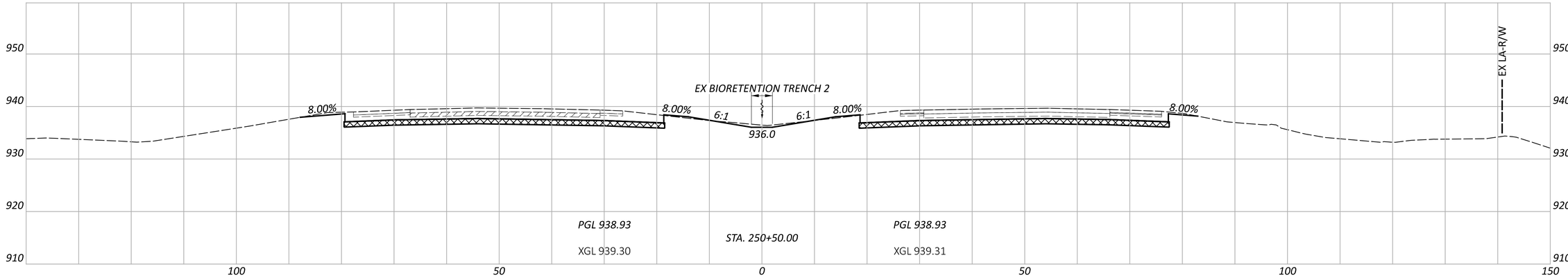
DESIGN AGENCY
STRUCTUREPOINT

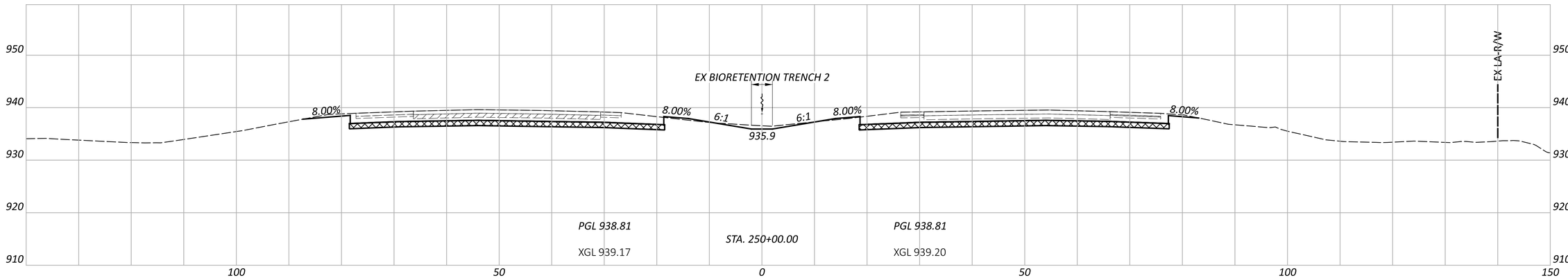
DESIGNER
ARM

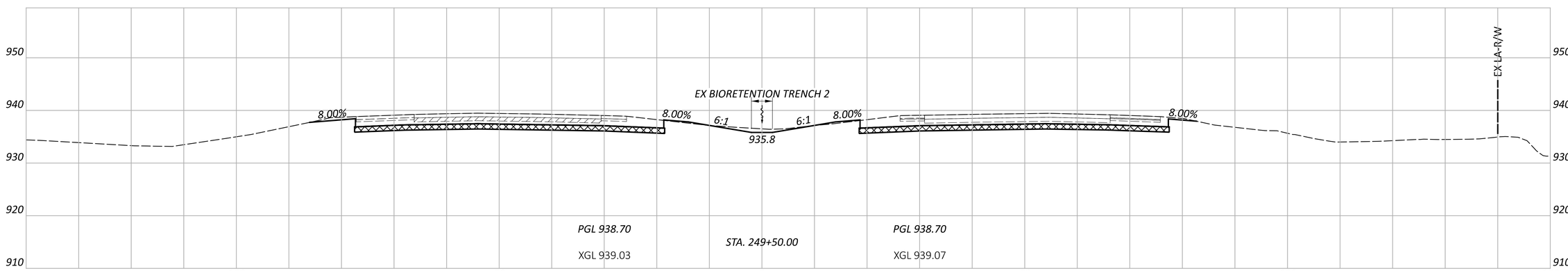
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.397 TOTAL 577







CROSS SECTIONS - IR 70
STA 249+50.00 TO STA 250+50.00

FRA-70-00.00

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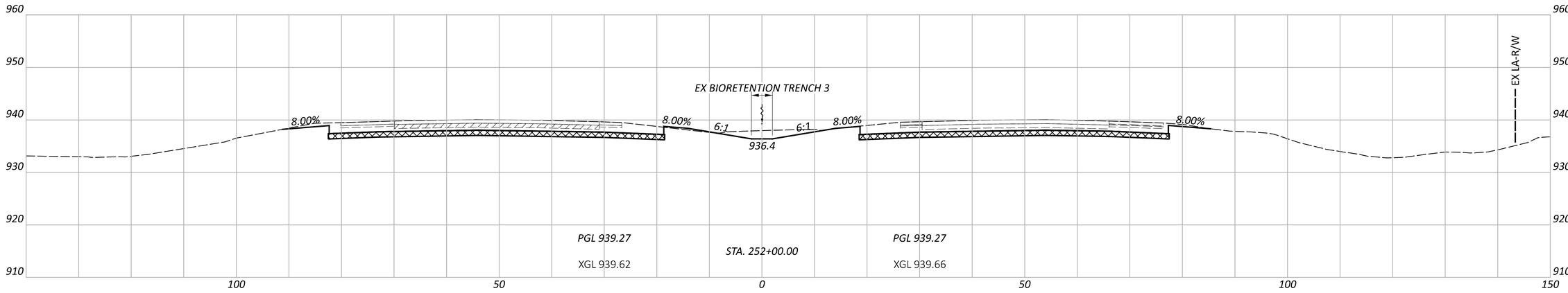
DESIGN AGENCY
STRUCTUREPOINT LLC

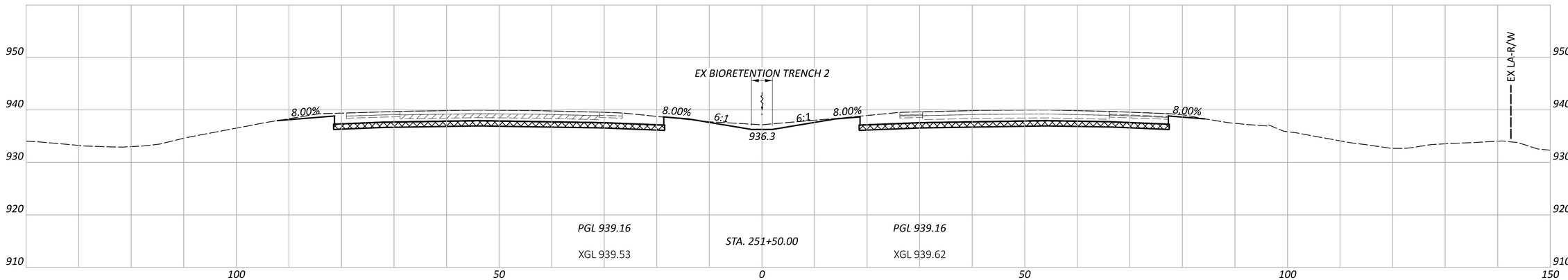
DESIGNER
ARM

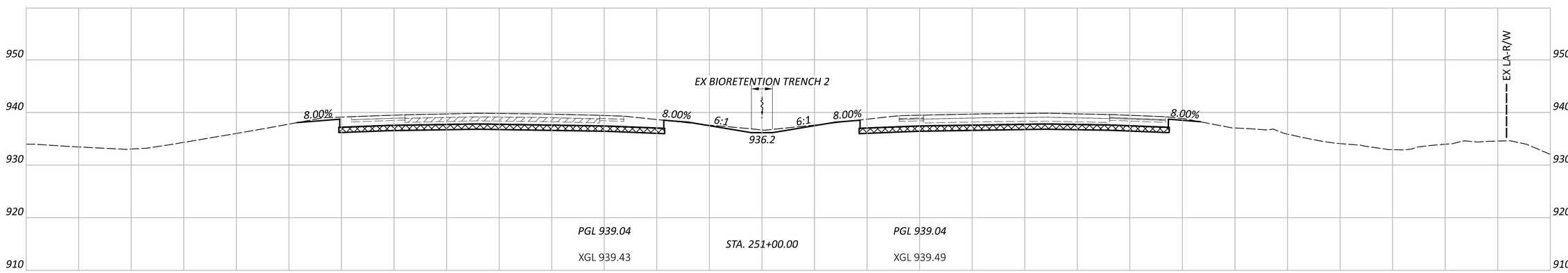
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.398 | TOTAL 577







CROSS SECTIONS - IR 70
STA 251+00.00 TO STA 252+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.399 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 251+00.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:36:02 PM USER: AMerrill
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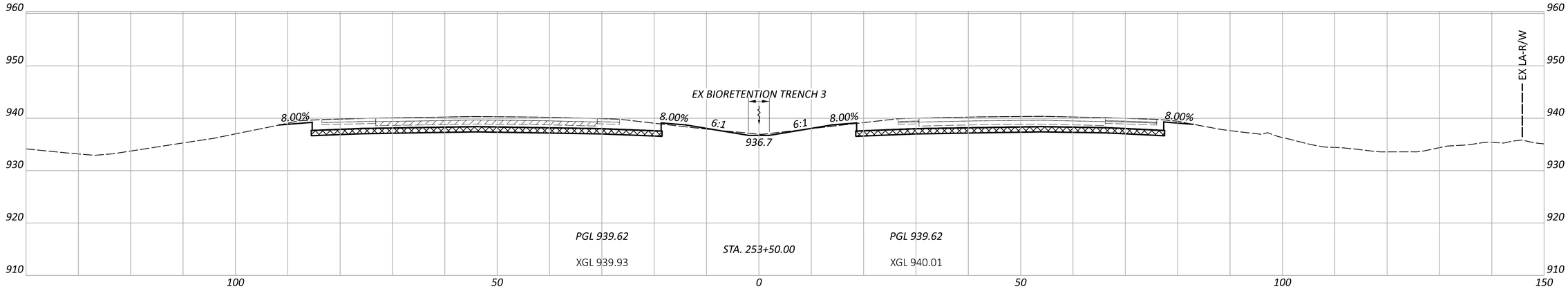

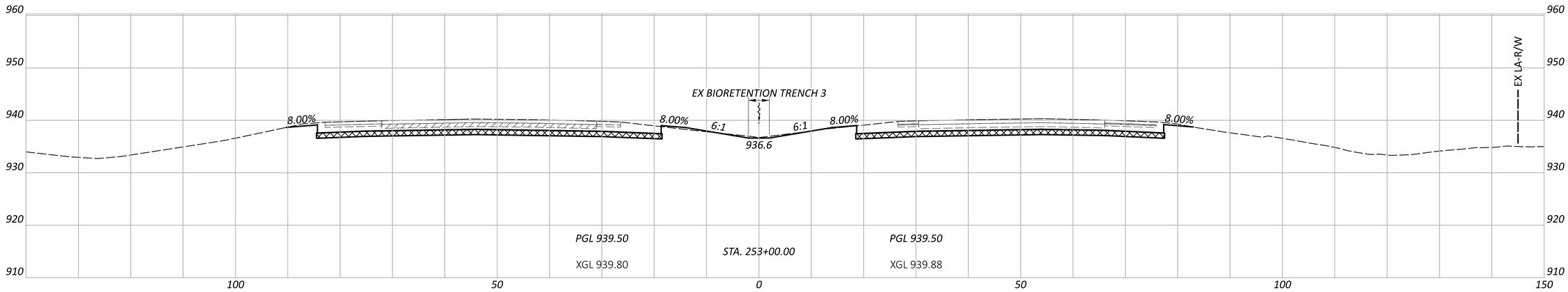

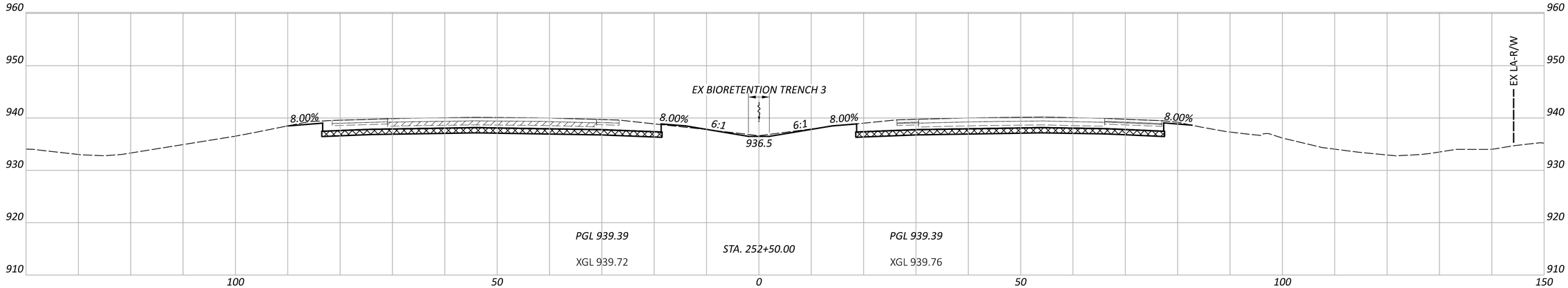

CROSS SECTIONS - IR 70
STA 252+50.00 TO STA 253+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.400
TOTAL	577

FRA-70-00.00

MODEL: CLP_I070 - 252+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:36:05 PM USER: AMerrill
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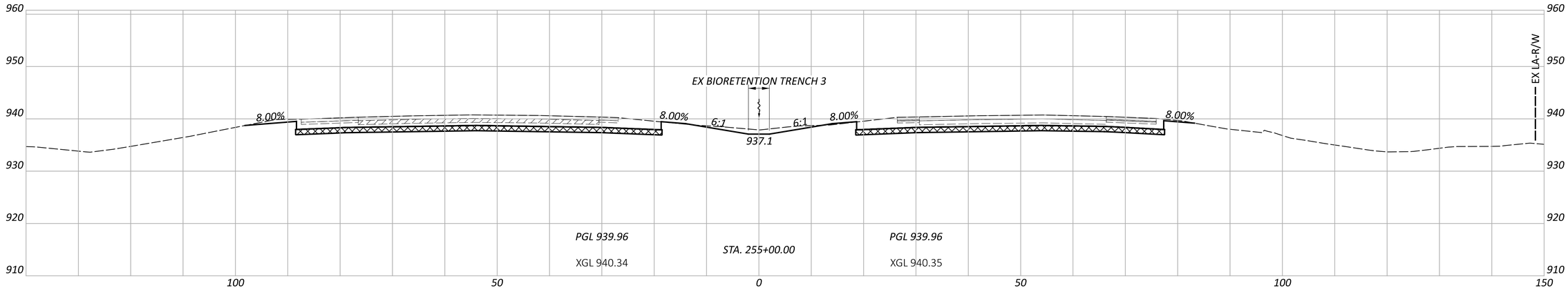

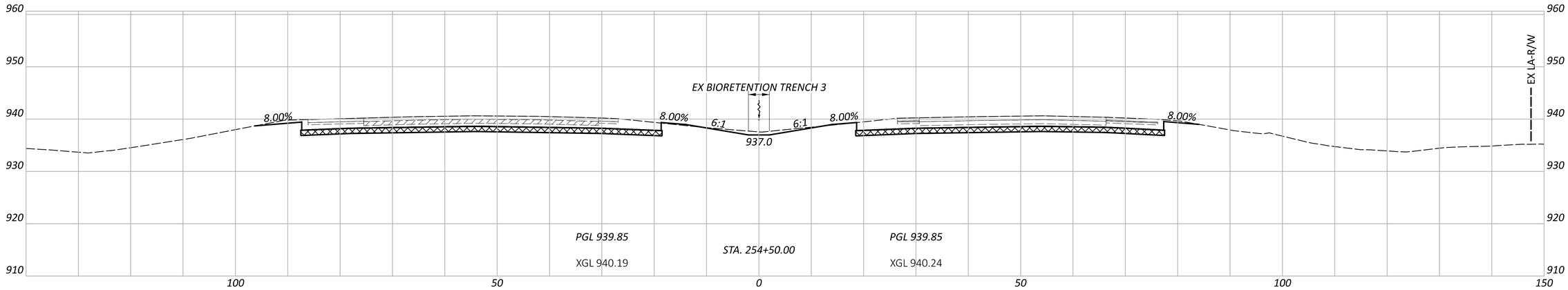

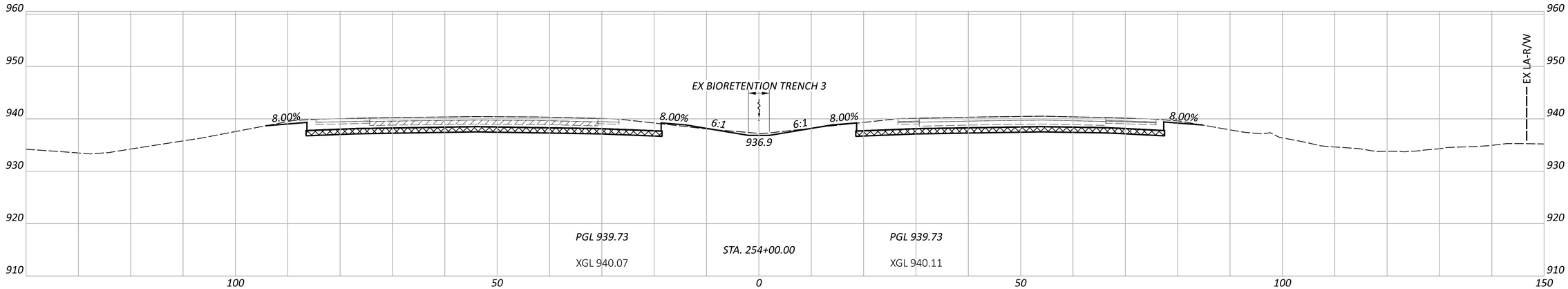

CROSS SECTIONS - IR 70
STA 254+00.00 TO STA 255+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.401 TOTAL 577

FRA-70-00.00

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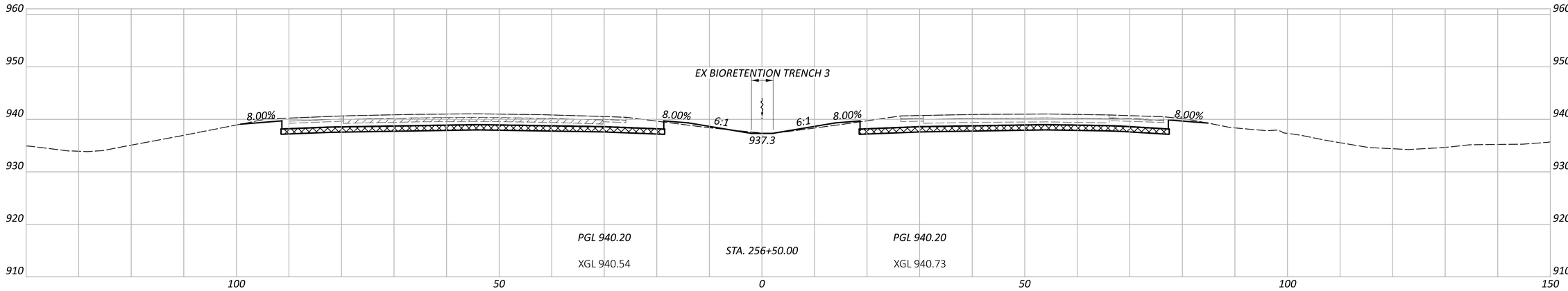

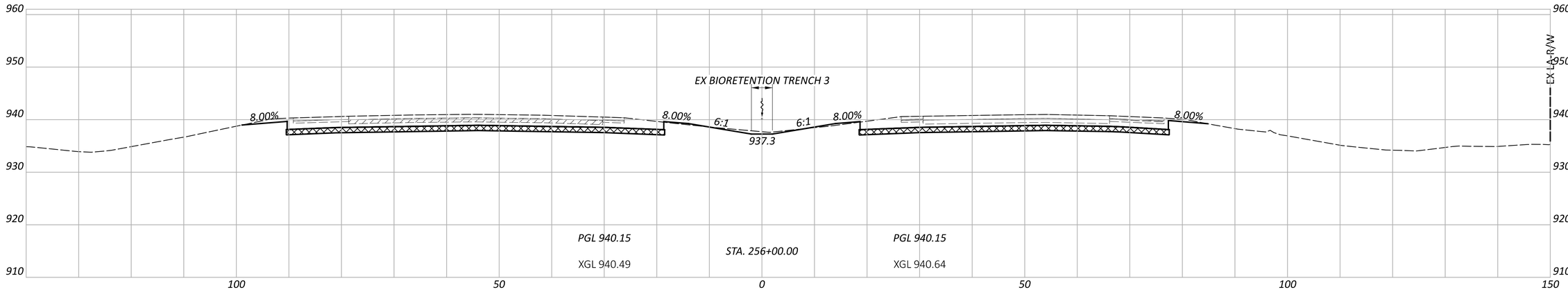

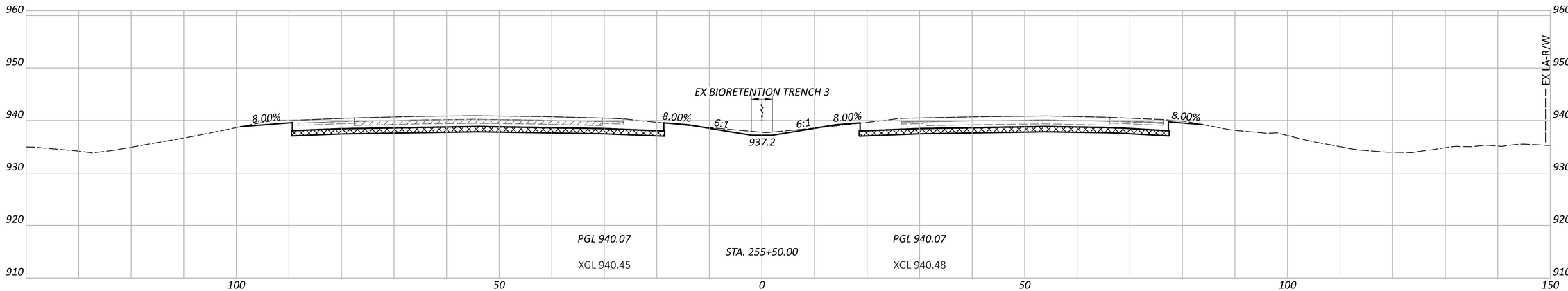

CROSS SECTIONS - IR 70
STA 255+50.00 TO STA 256+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.402 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 255+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:36:13 PM USER: AMerrill
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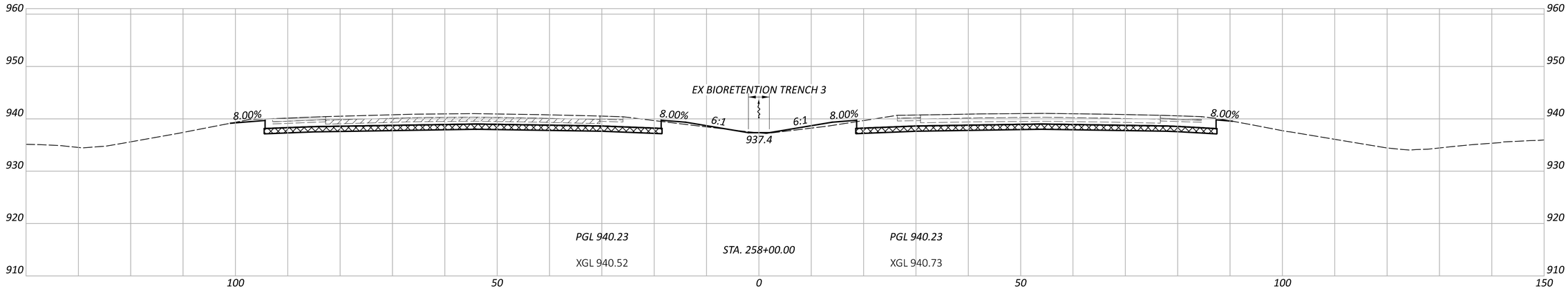

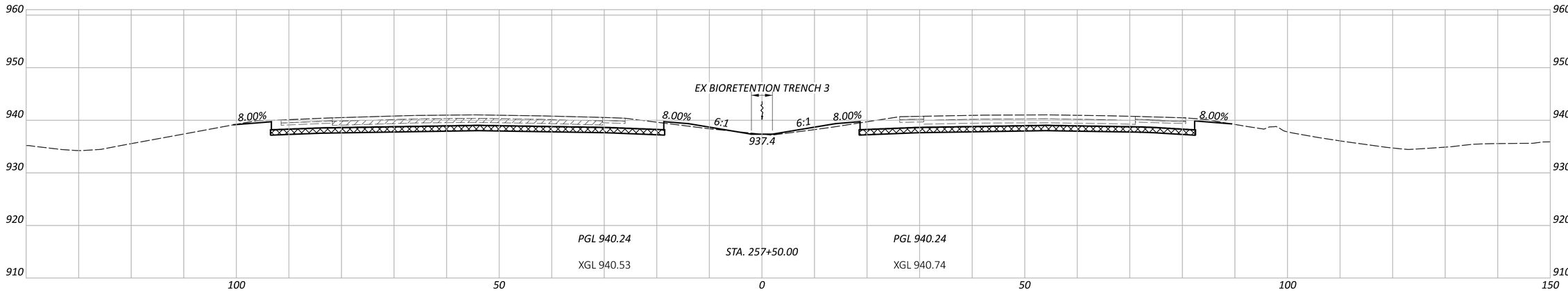

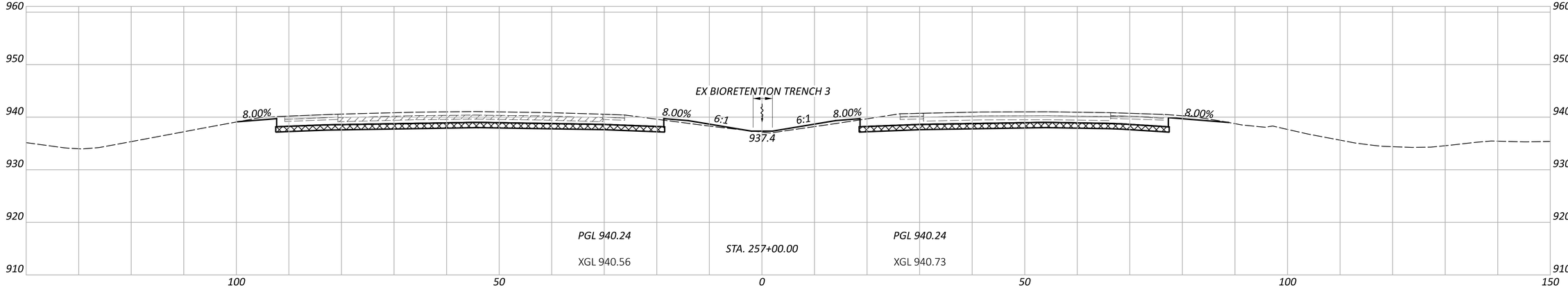

FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 257+00.00 TO STA 258+00.00

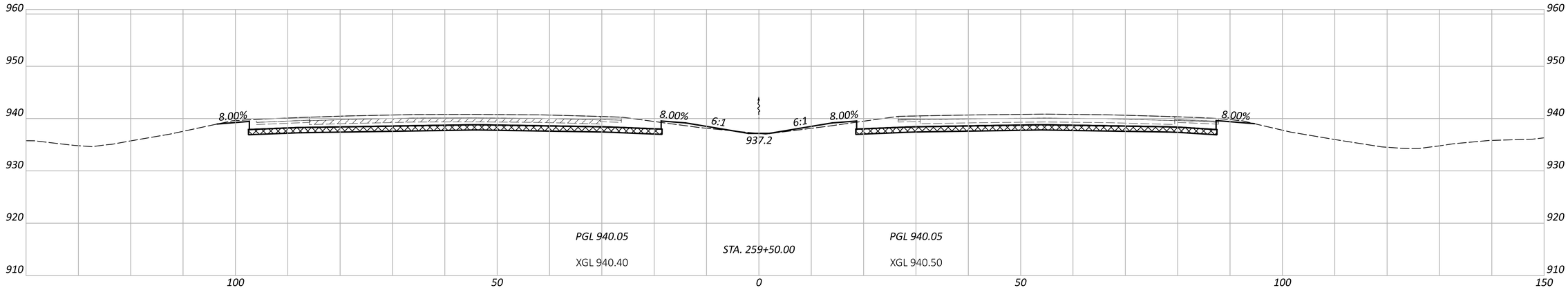
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

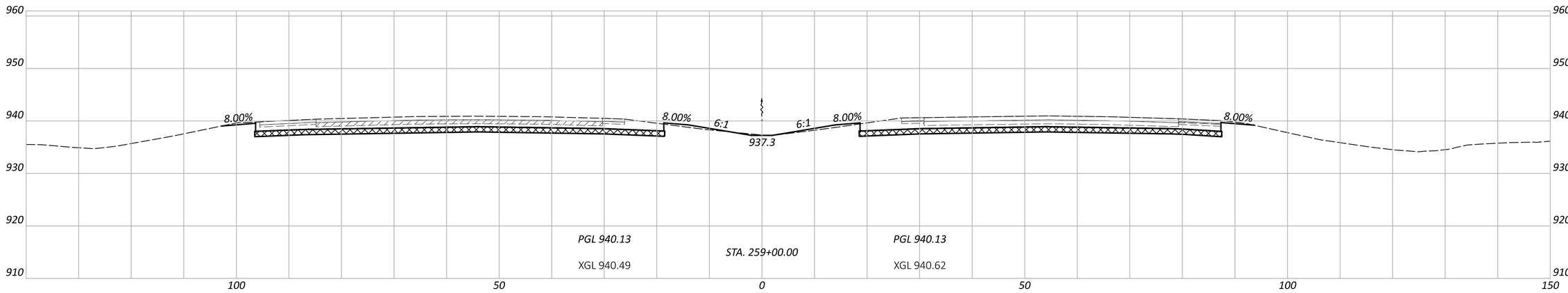
DESIGNER
ARM

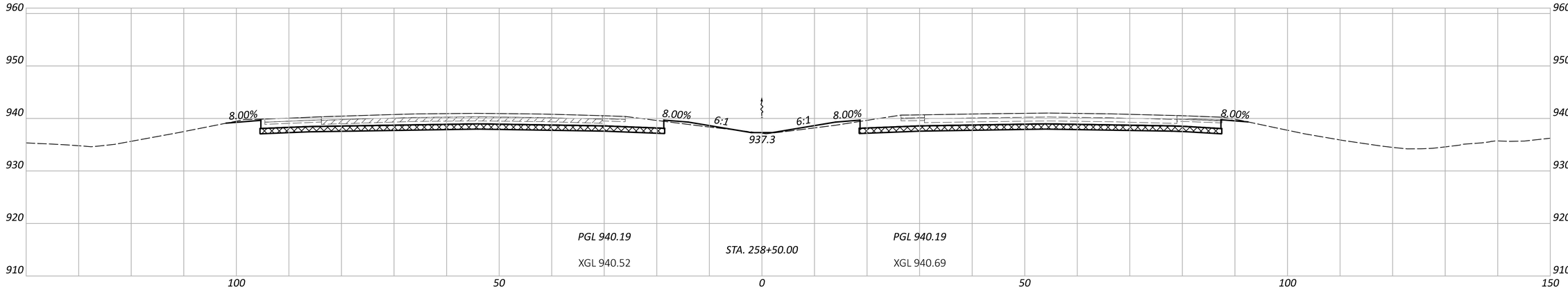
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.403 | TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 258+50.00 TO STA 259+50.00

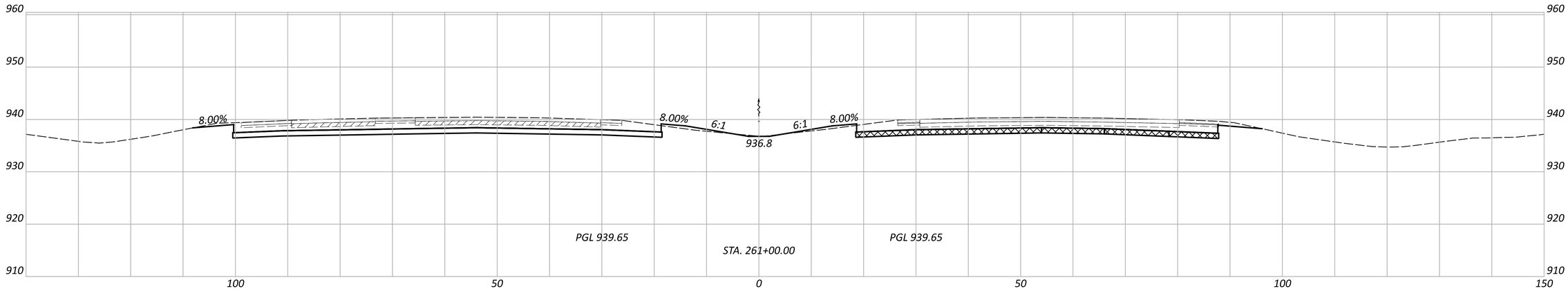
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

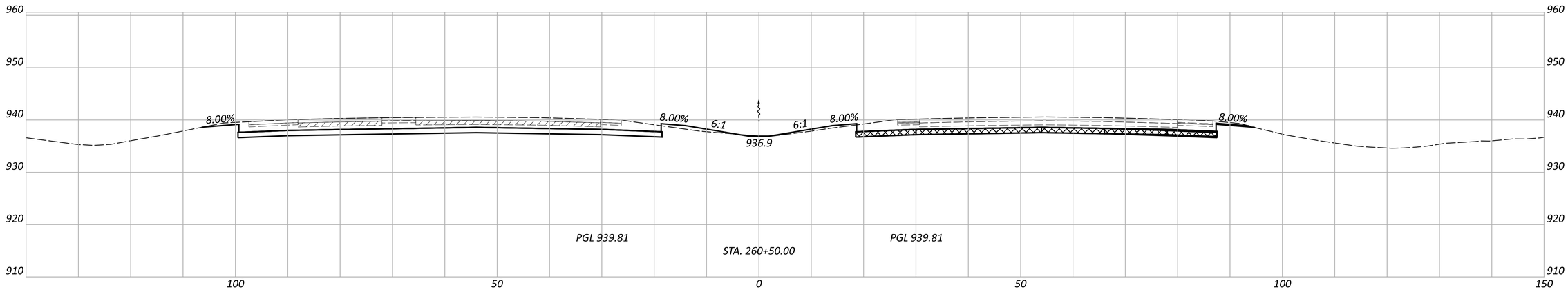
DESIGNER
ARM

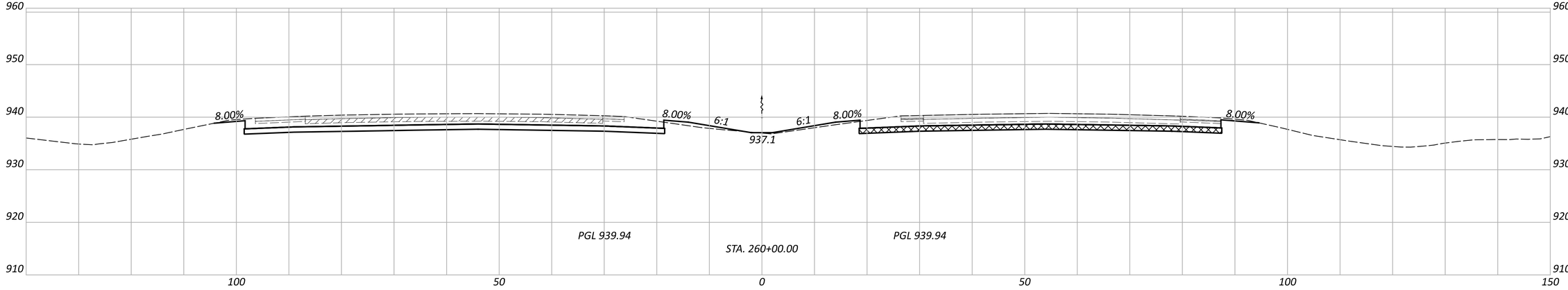
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.404 | TOTAL 577







FRA-70-00.00

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CROSS SECTIONS - IR 70
STA 260+00.00 TO STA 261+00.00

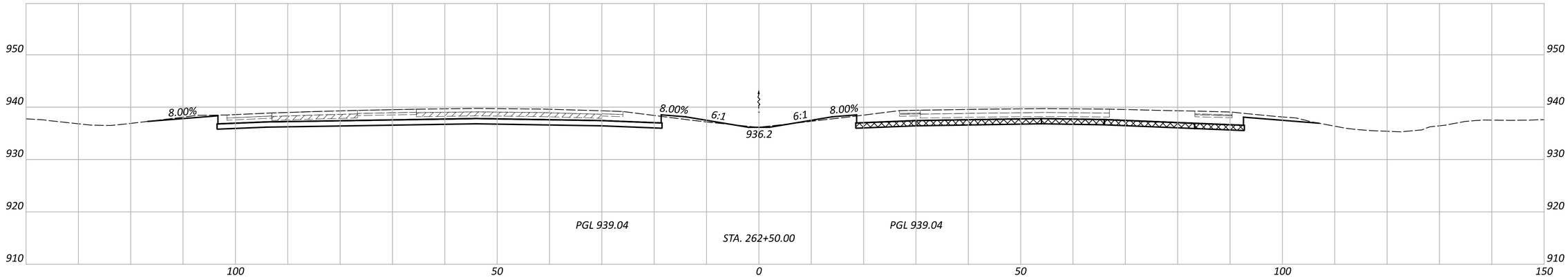
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

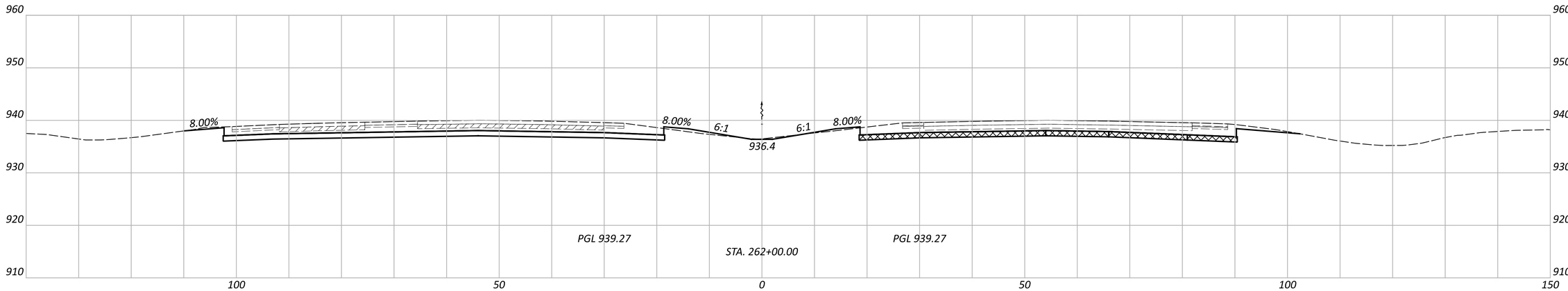
DESIGNER
ARM

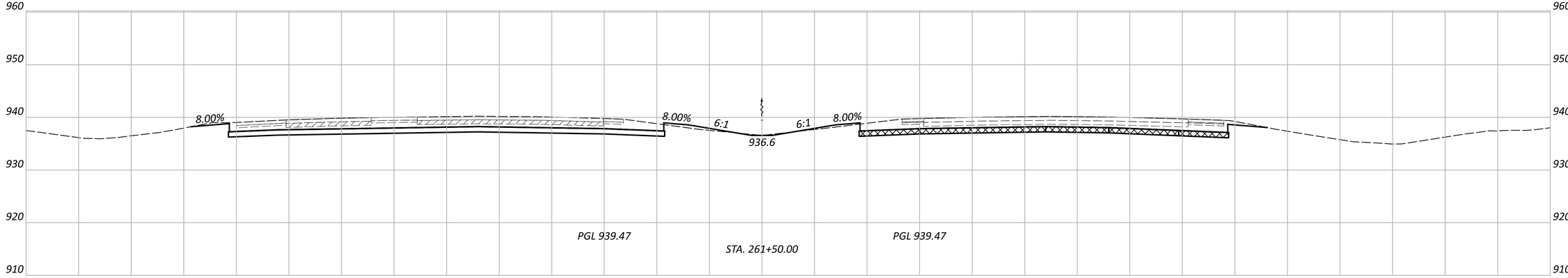
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.405 | TOTAL 577







CROSS SECTIONS - IR 70
STA 261+50.00 TO STA 262+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.406 | TOTAL 577

FRA-70-00.00

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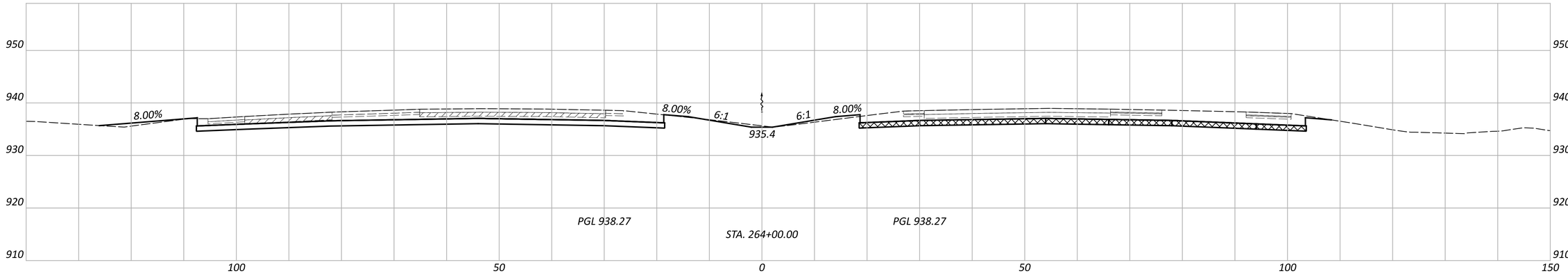

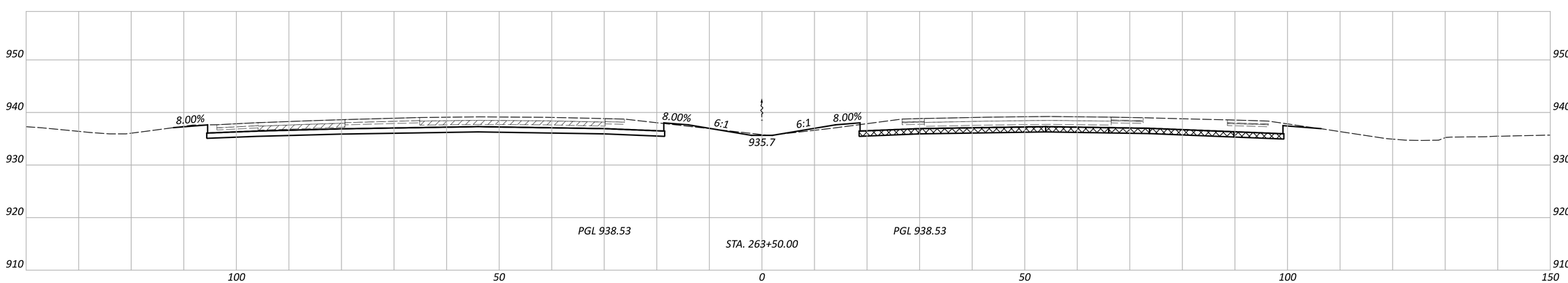

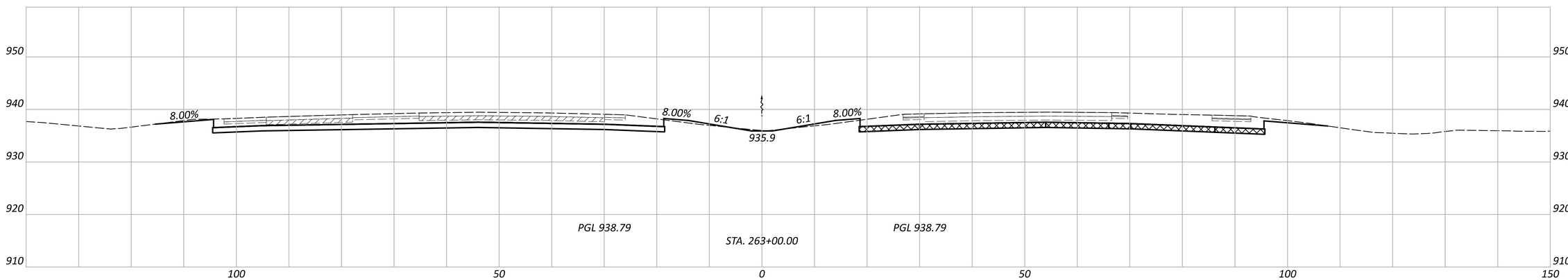

CROSS SECTIONS - IR 70
STA 263+00.00 TO STA 264+00.00

FRA-70-00.00

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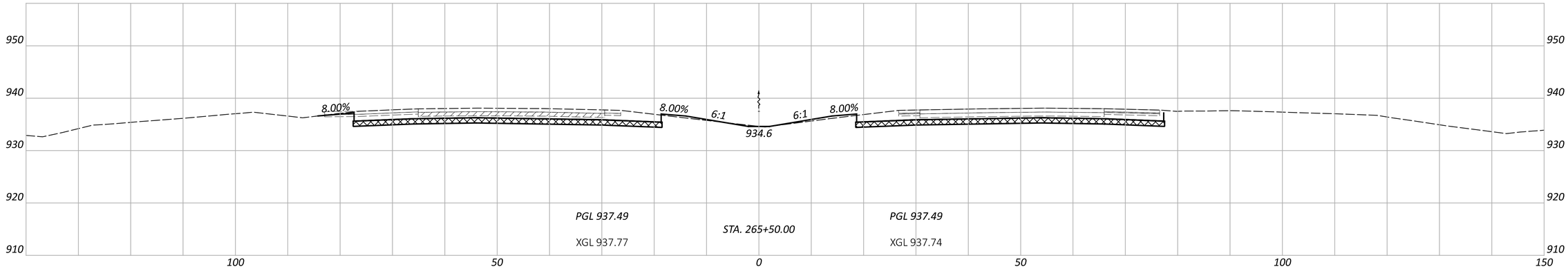
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

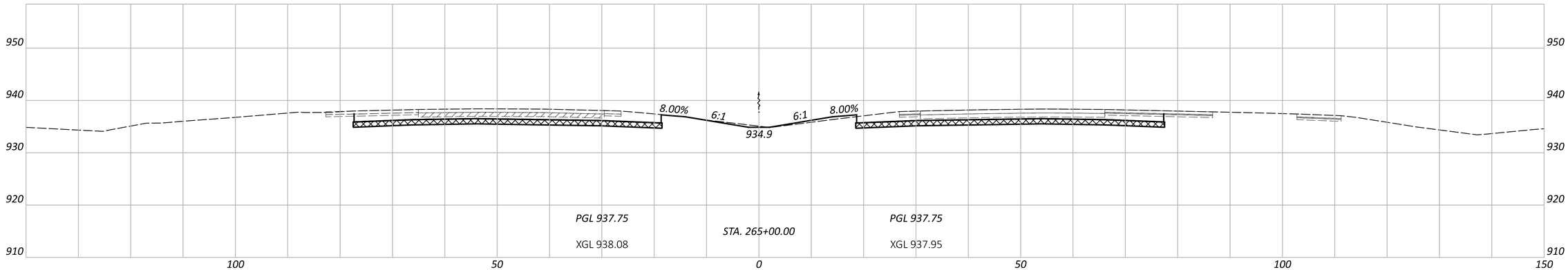
DESIGNER
ARM

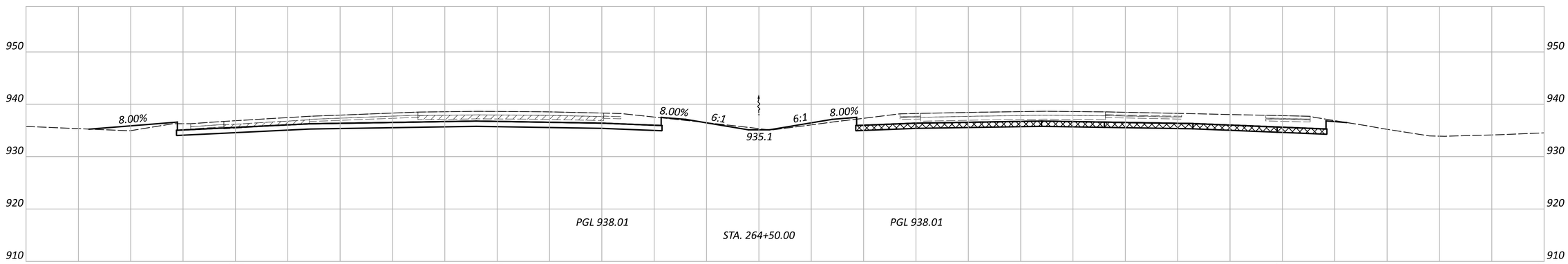
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.407 TOTAL 577







CROSS SECTIONS - IR 70
STA 264+50.00 TO STA 265+50.00

FRA-70-00.00

MODEL: CLP_I070 - 264+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:36:42 PM USER: AMerrill
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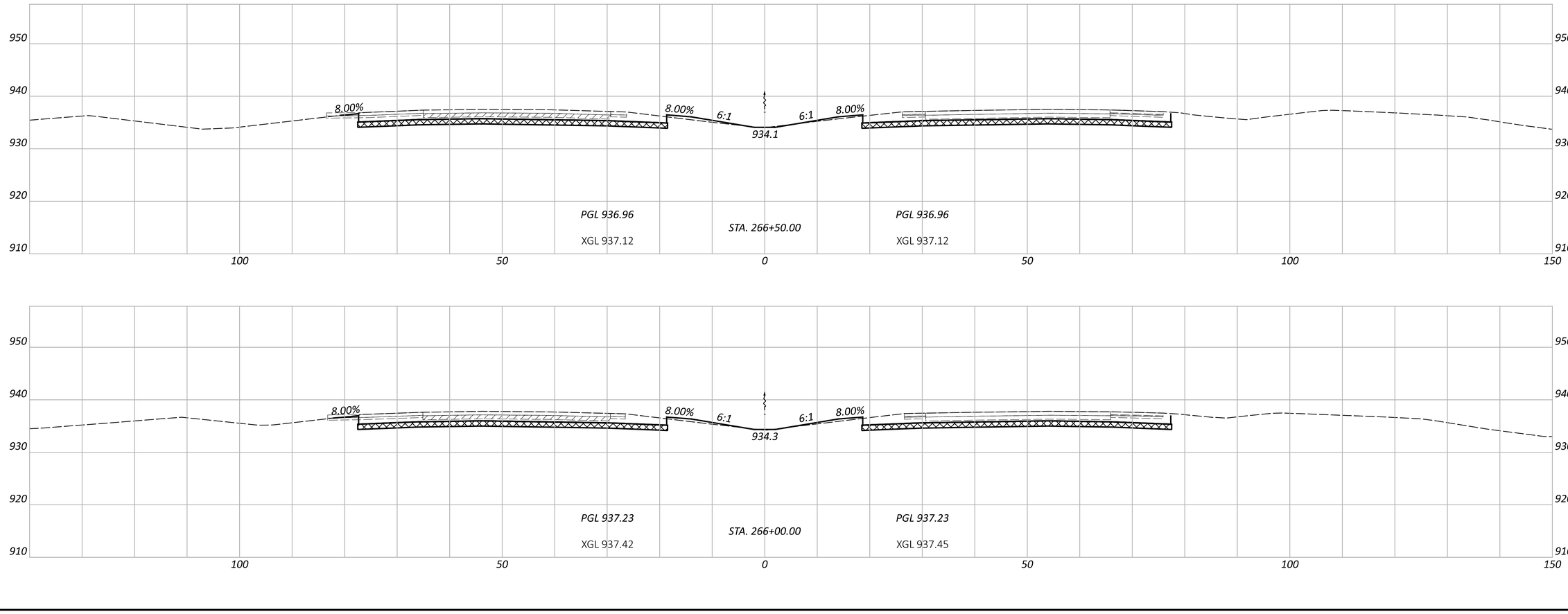
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.408 TOTAL 577



CROSS SECTIONS - IR 70
STA 266+00.00 TO STA 266+50.00

FRA-70-00.00

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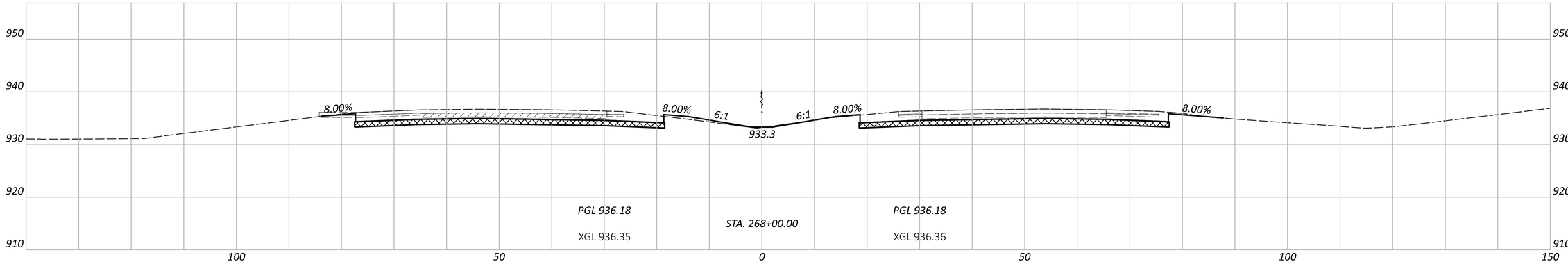
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

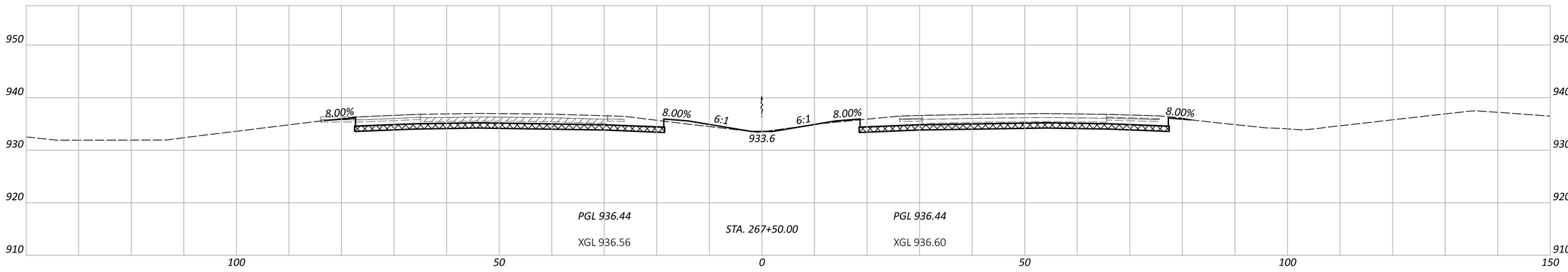
DESIGNER
ARM

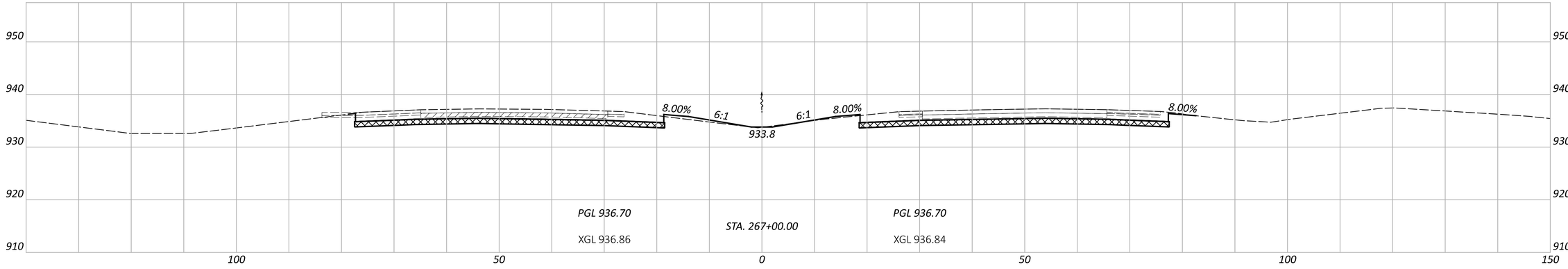
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.409 TOTAL 577







CROSS SECTIONS - IR 70
STA 267+00.00 TO STA 268+00.00

DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.410 | TOTAL 577

FRA-70-00.00

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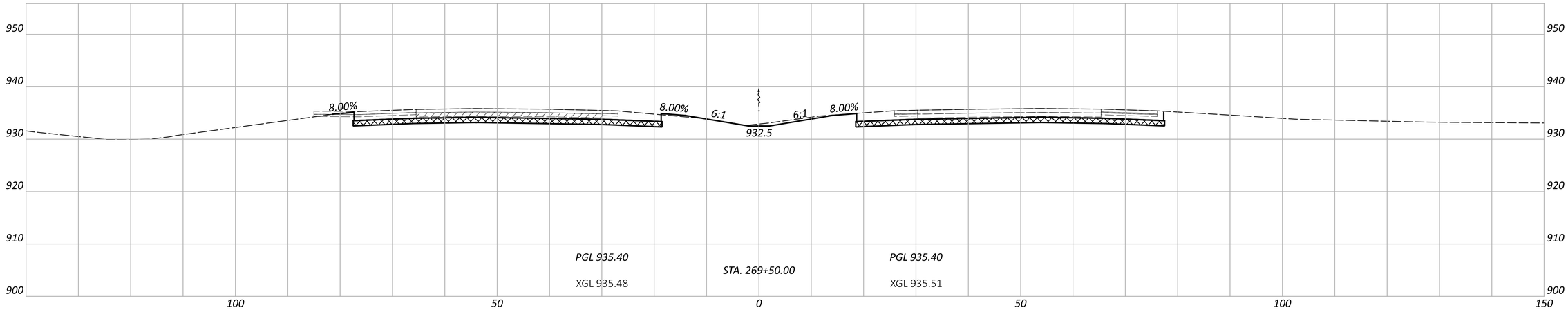

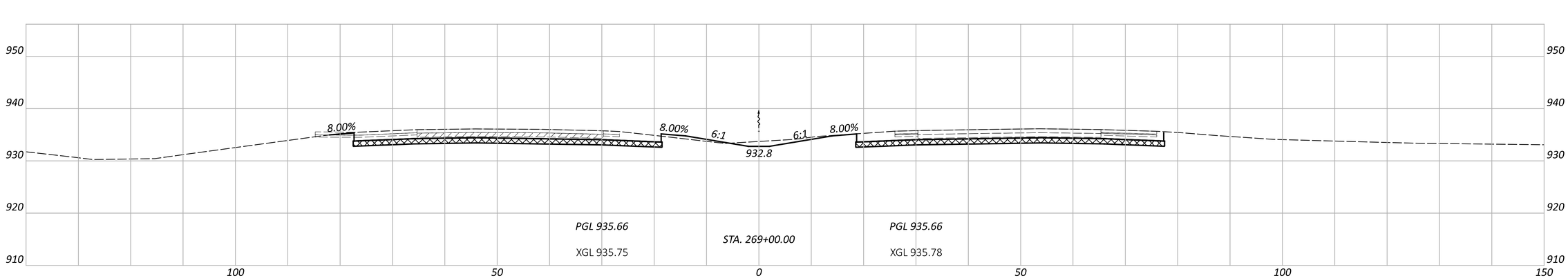

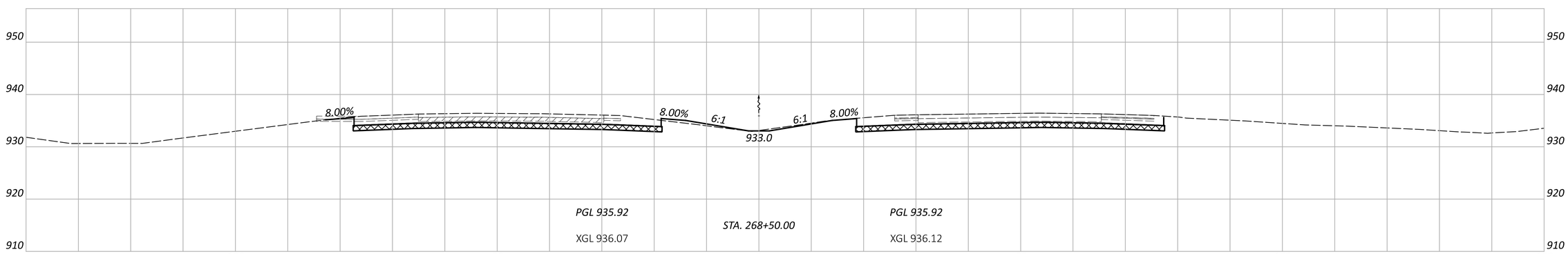

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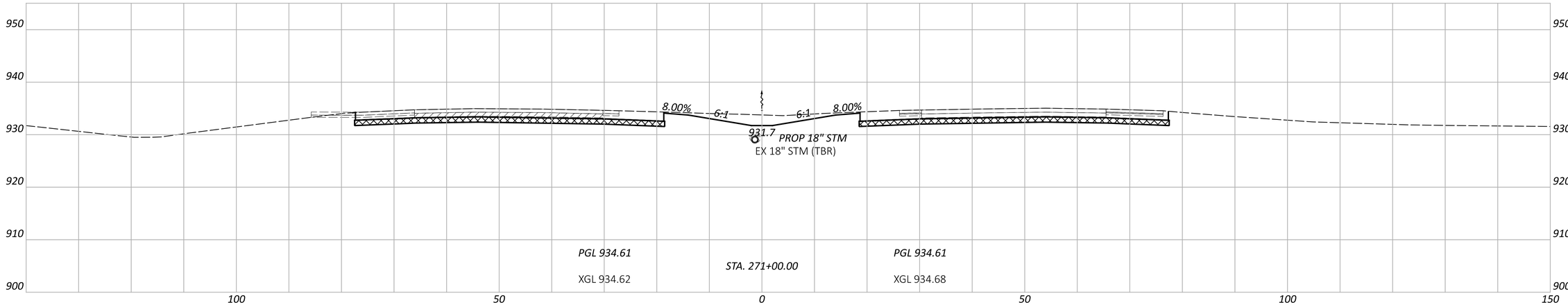
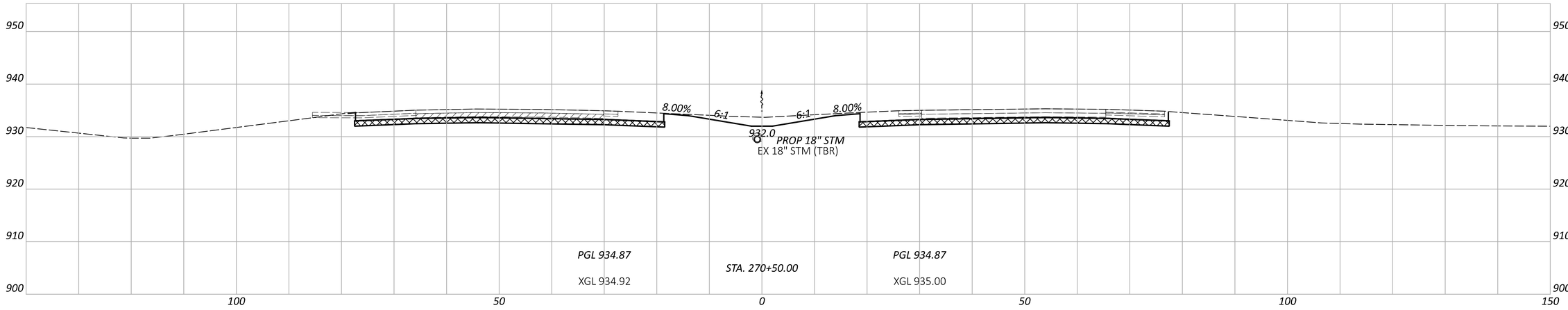
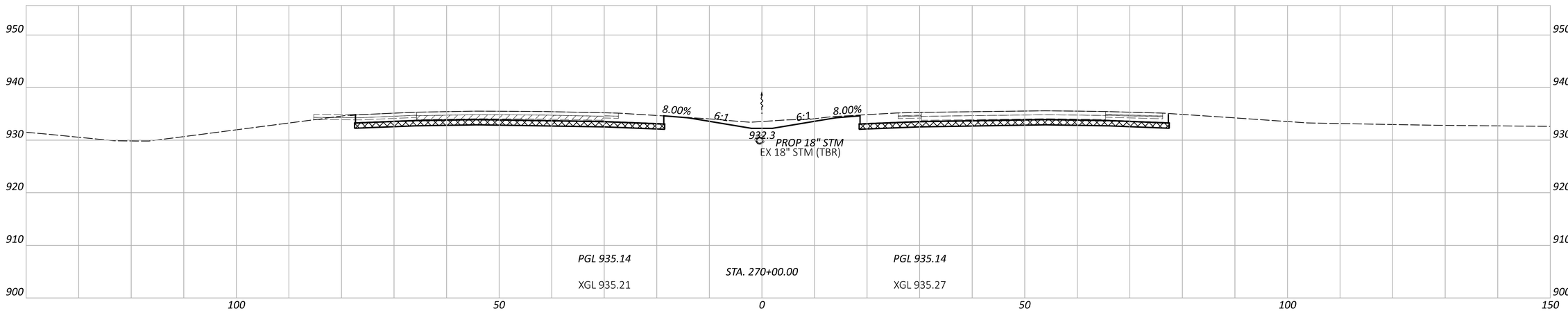
CROSS SECTIONS - IR 70
STA 268+50.00 TO STA 269+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.411
TOTAL	577







CROSS SECTIONS - IR 70
STA 270+00.00 TO STA 271+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.412 | TOTAL 577

FRA-70-00.00

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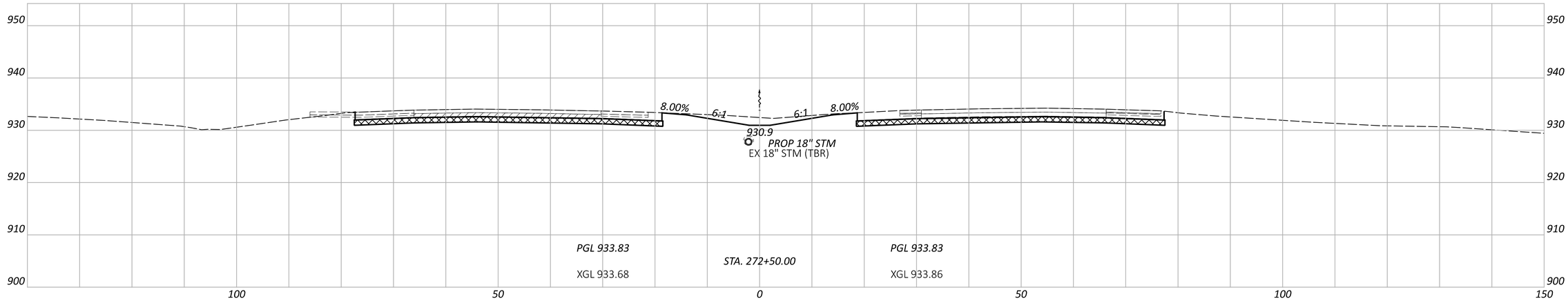

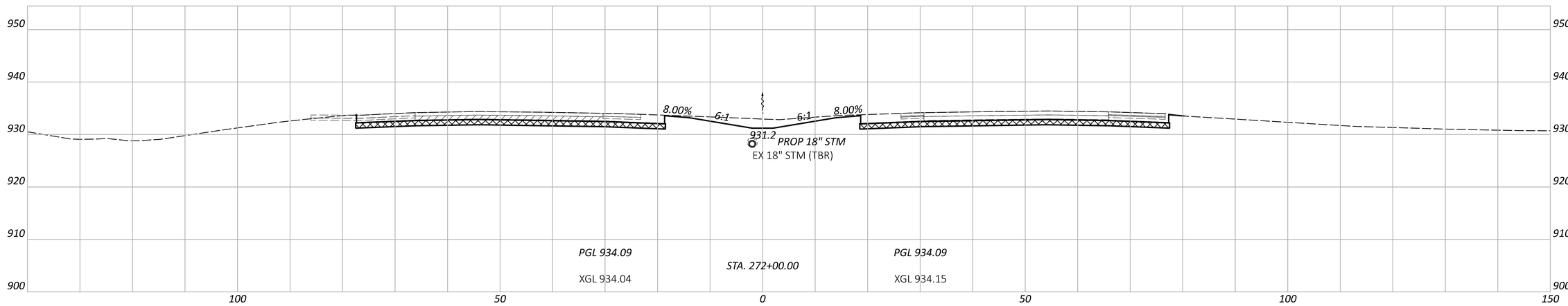

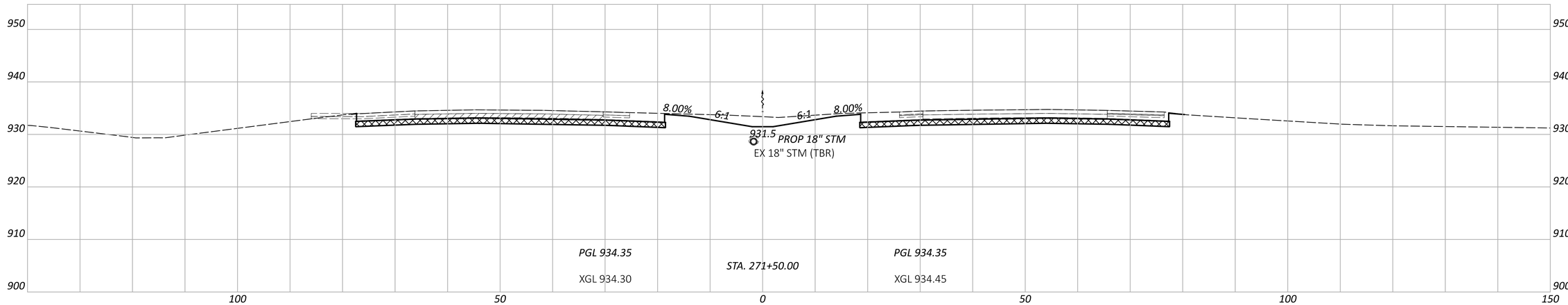

CROSS SECTIONS - IR 70
STA 271+50.00 TO STA 272+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.413 | TOTAL 577

FRA-70-00.00

MODEL: CLP_I070 - 271+50.00 R2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:37:00 PM USER: AMerrill
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CROSS SECTIONS - IR 70
STA 273+00.00 TO STA 274+00.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.414 TOTAL 577

FRA-70-00.00

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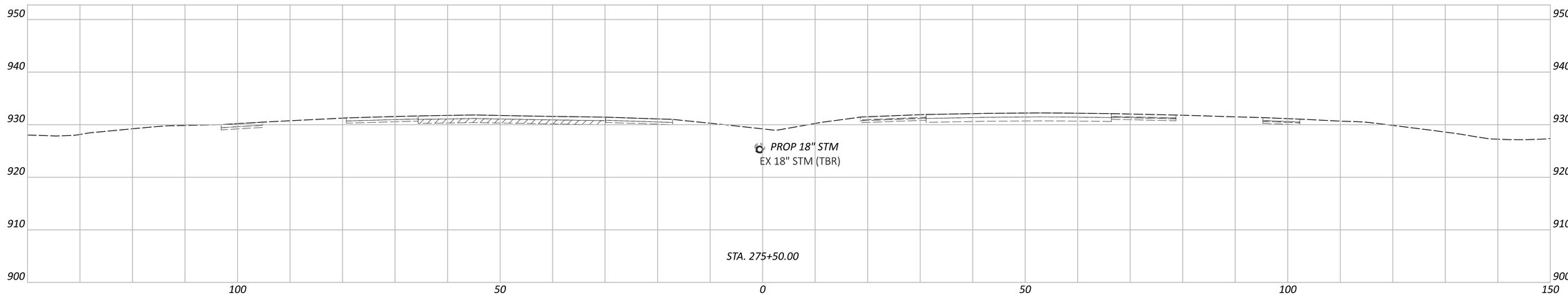

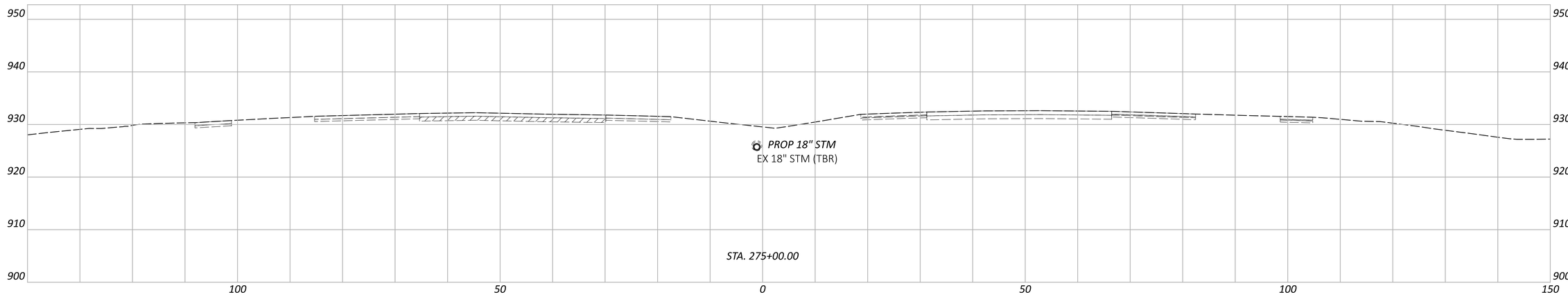

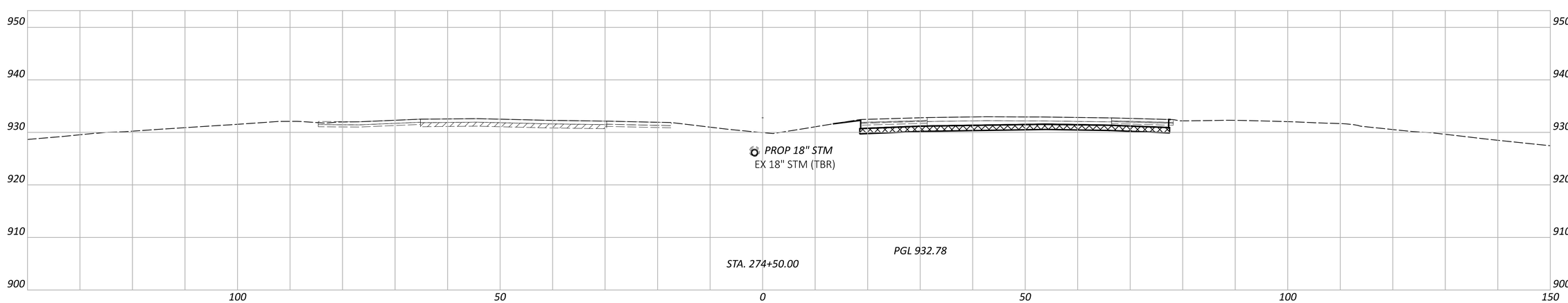

CROSS SECTIONS - IR 70
STA 274+50.00 TO STA 275+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.415 | TOTAL 577

FRA-70-00.00

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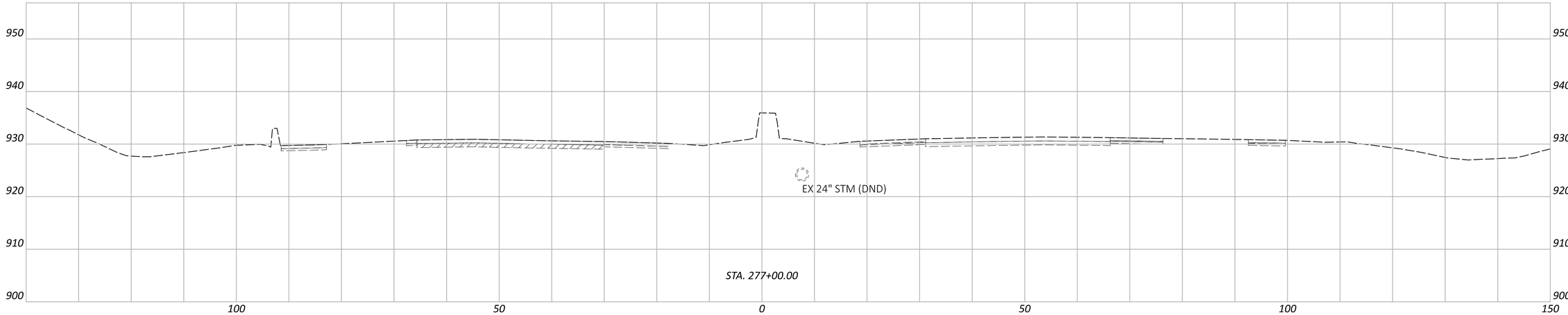

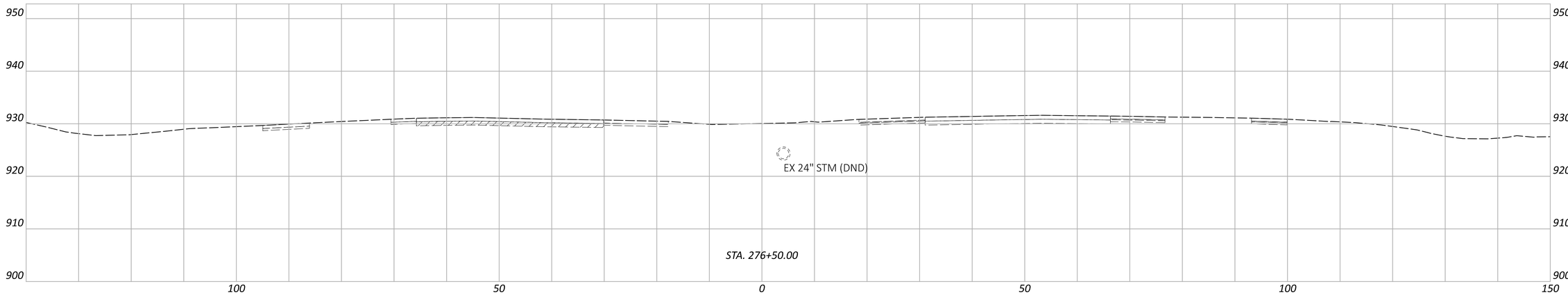

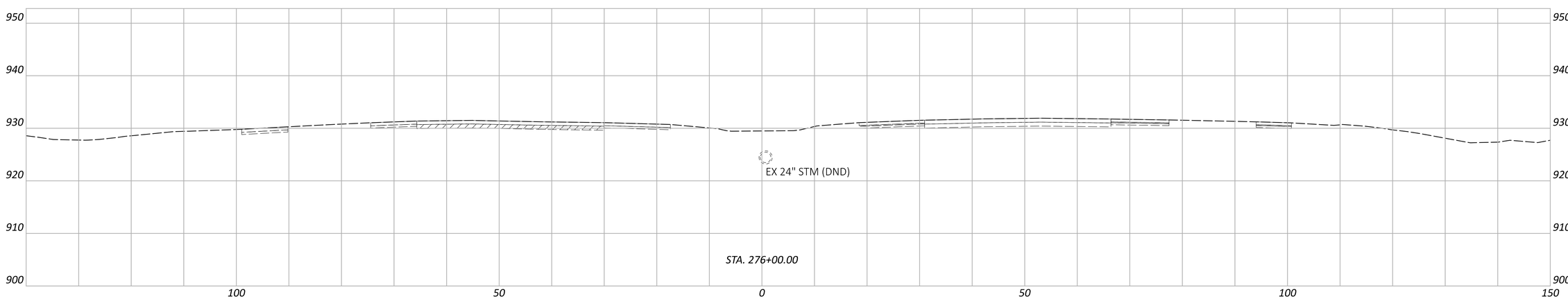

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CROSS SECTIONS - IR 70
STA 276+00.00 TO STA 277+00.00

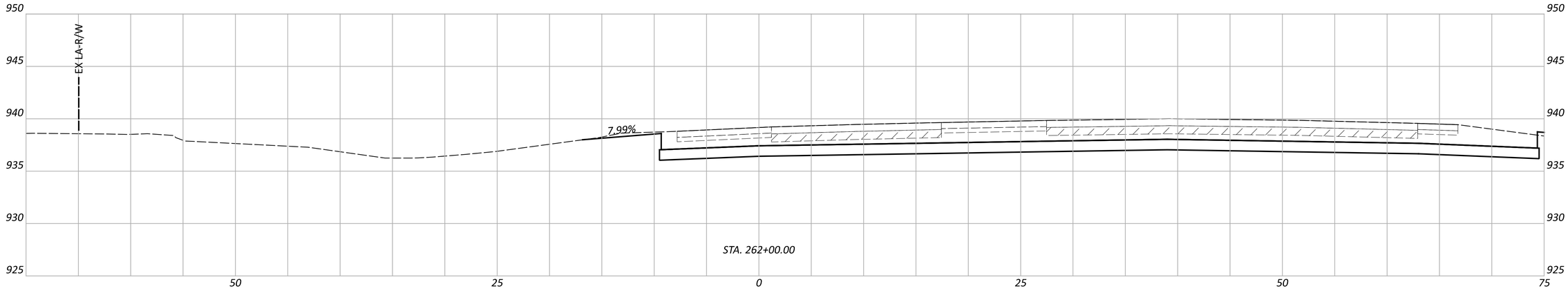
DESIGN AGENCY
STRUCTUREPOINT LLC

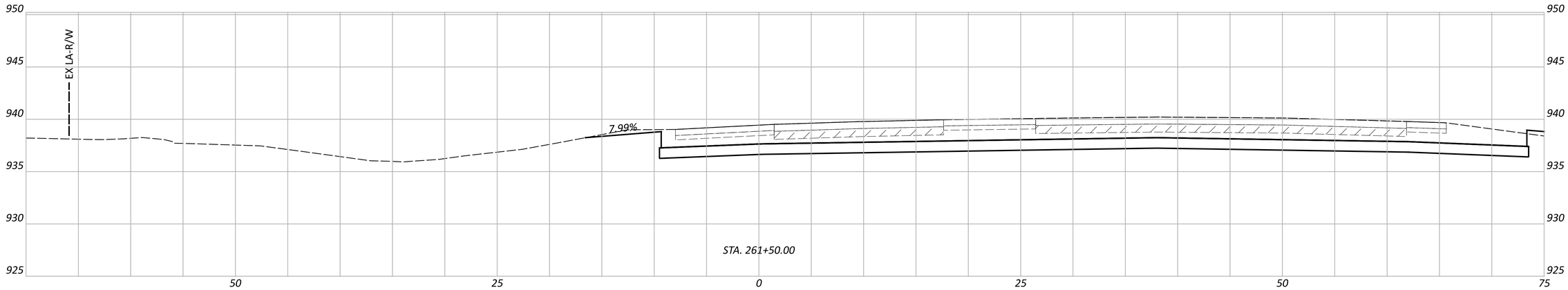
DESIGNER
ARM

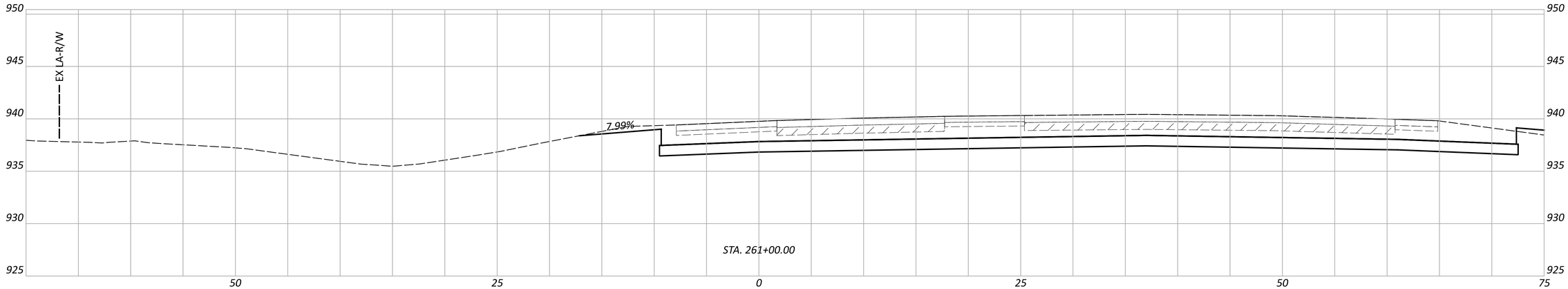
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.416 | TOTAL 577







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CROSS SECTIONS - RAMP A
STA 261+00.00 TO STA 262+00.00

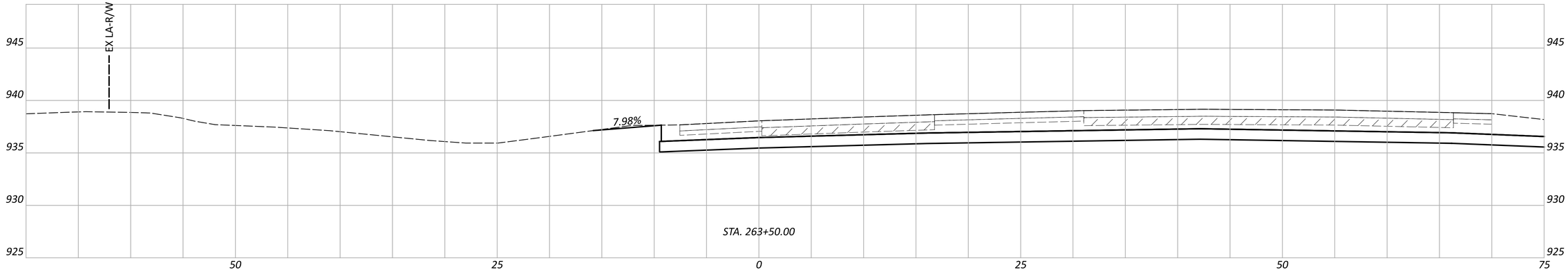
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

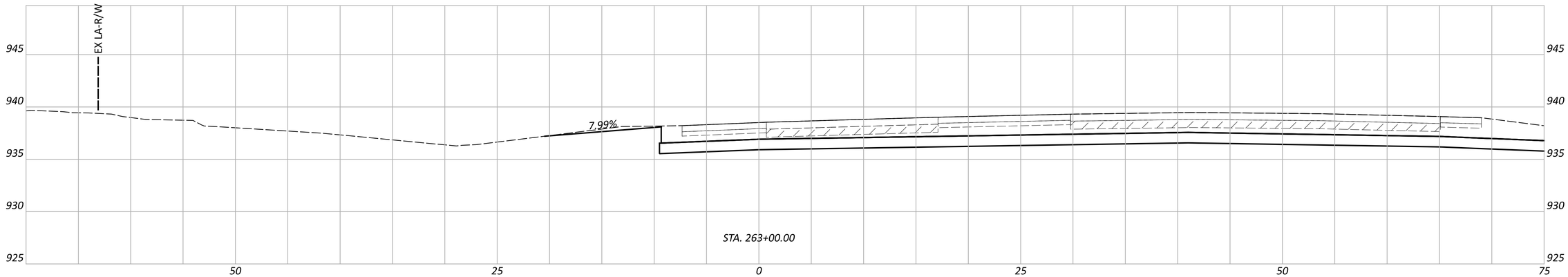
DESIGNER
ARM

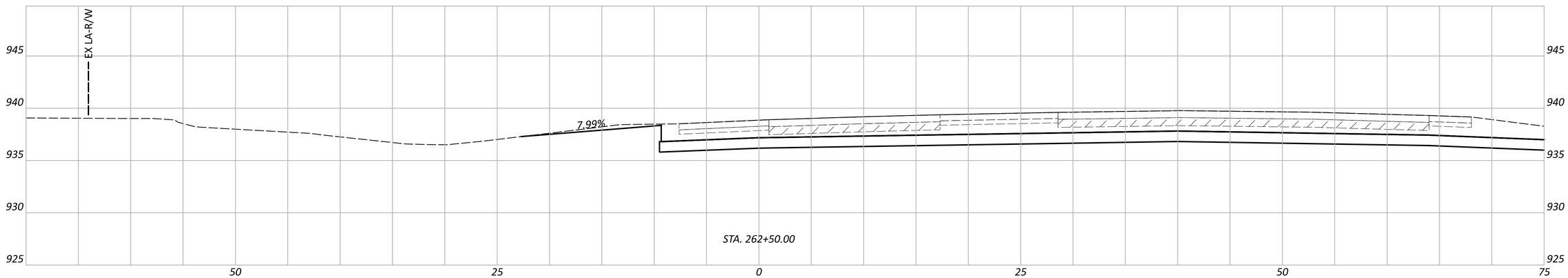
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.417 | TOTAL 577







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FRA-70-00.00

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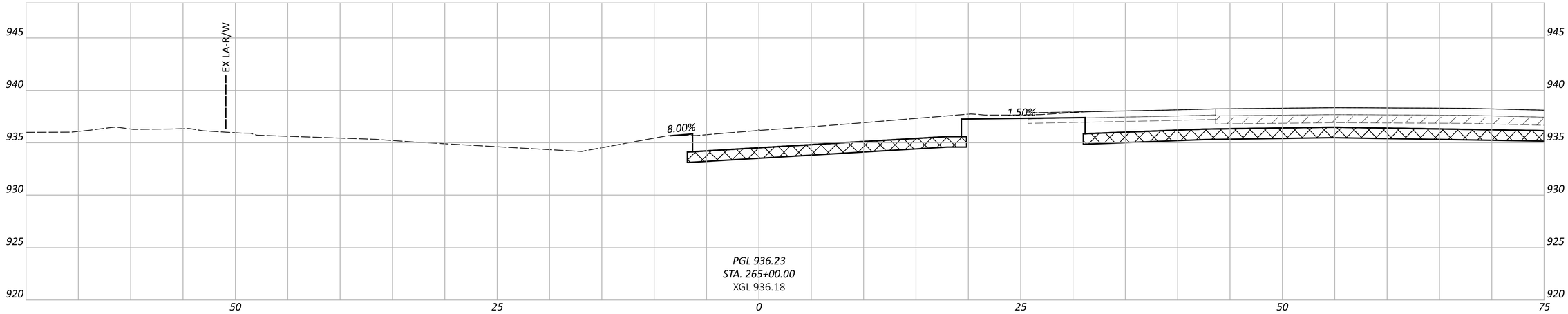
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

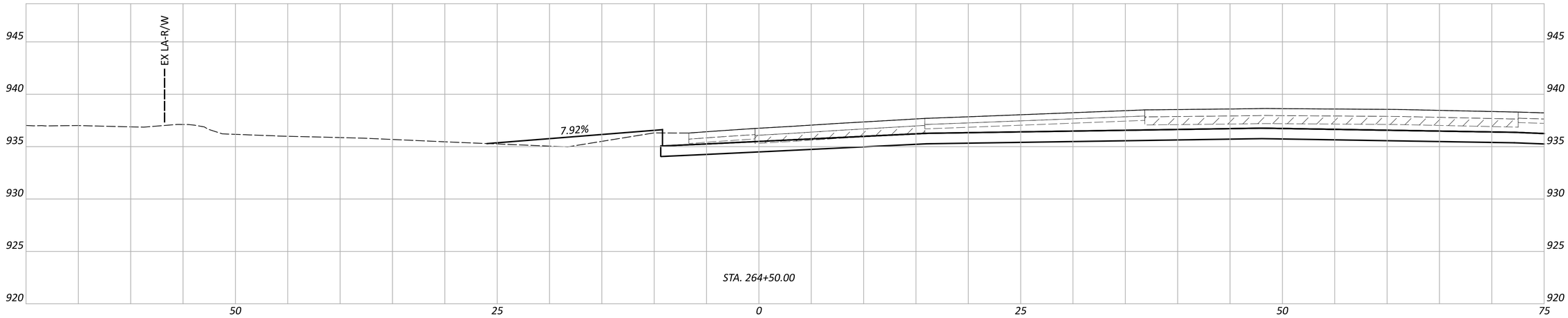
DESIGNER
ARM

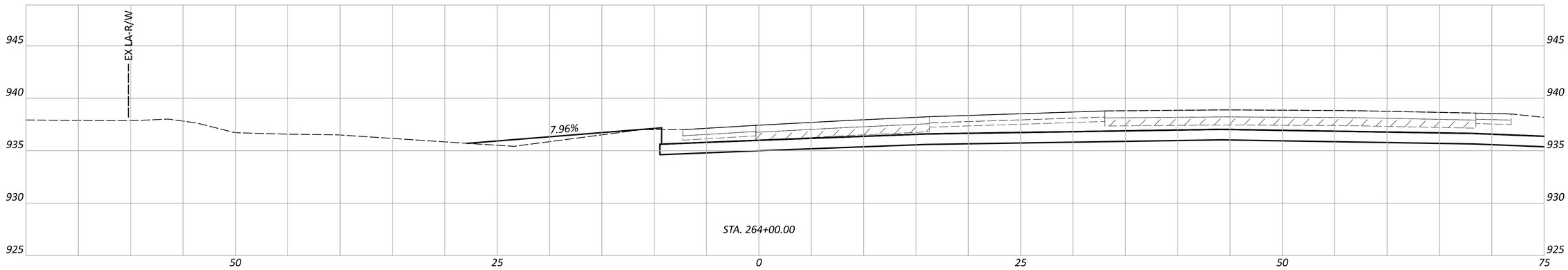
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.418 | TOTAL 577







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FRA-70-00.00

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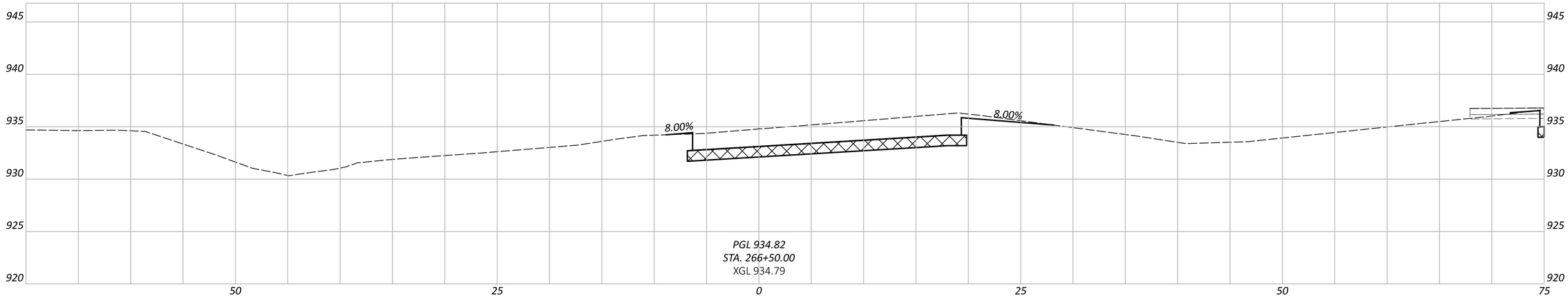
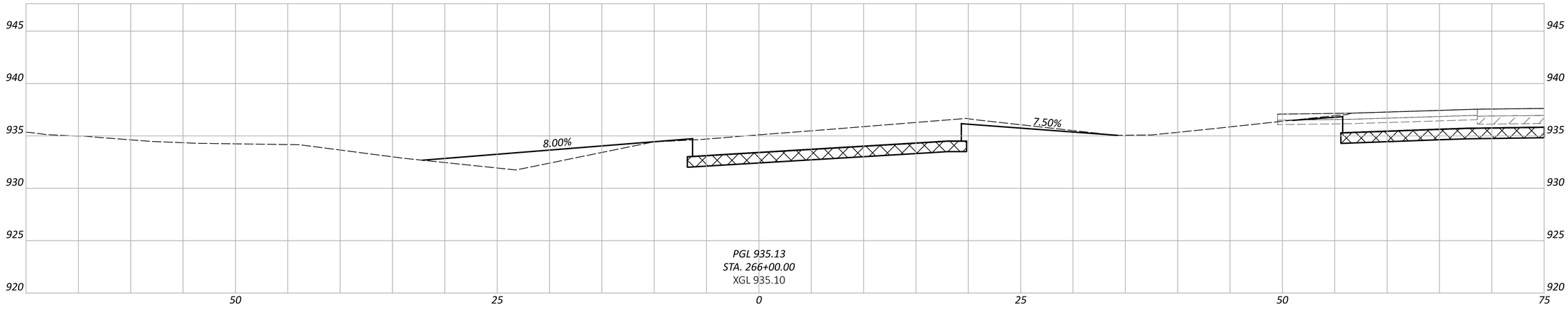
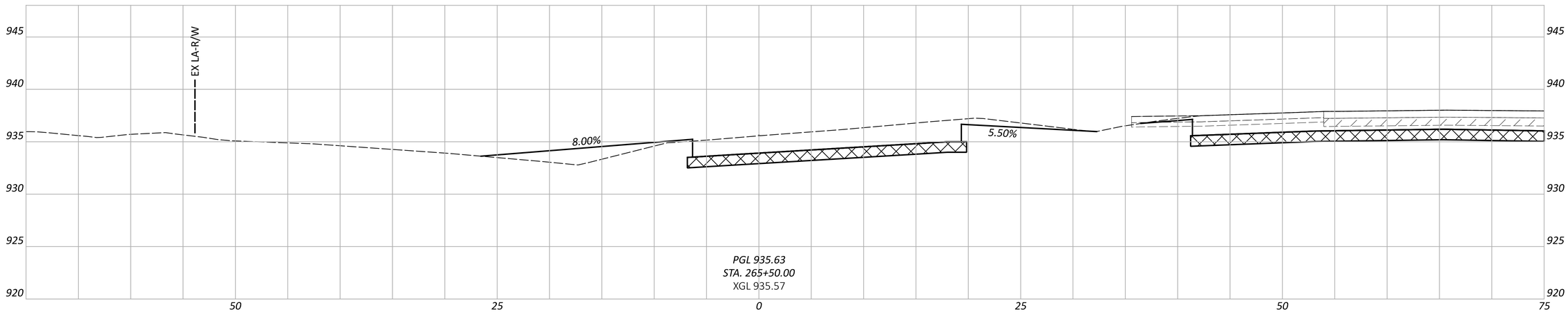
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.419
TOTAL	577







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FRA-70-00.00

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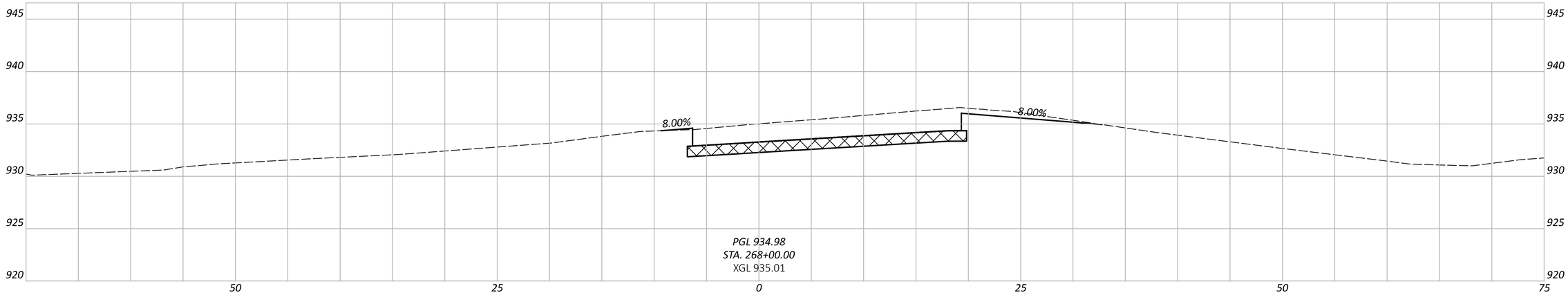
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

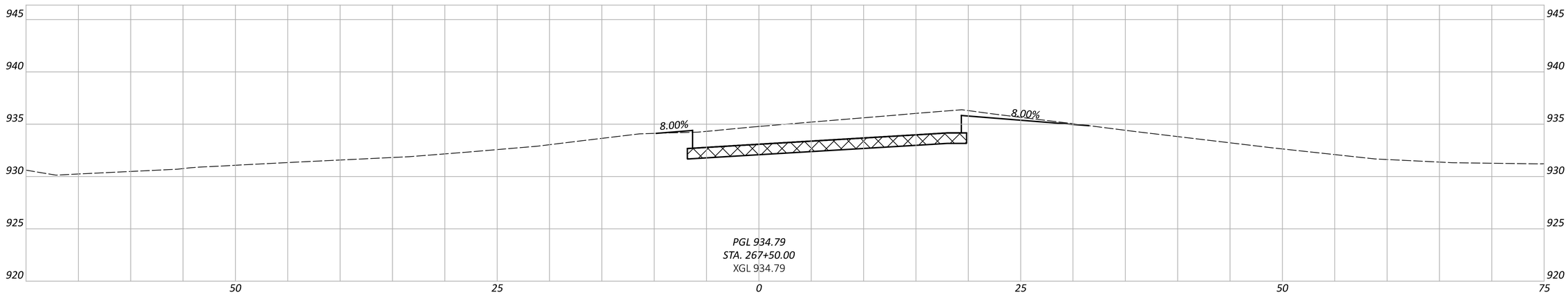
DESIGNER
ARM

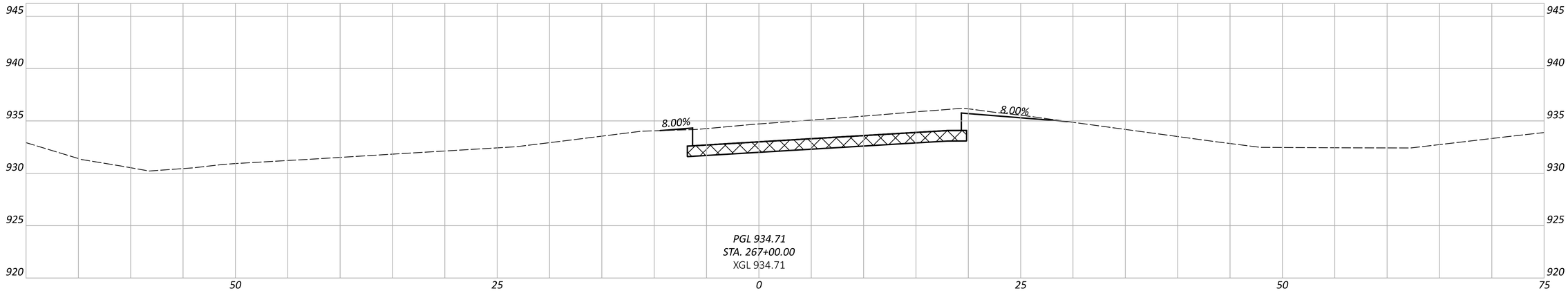
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.420 | TOTAL 577







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CROSS SECTIONS - RAMP A
STA 267+00.00 TO STA 268+00.00

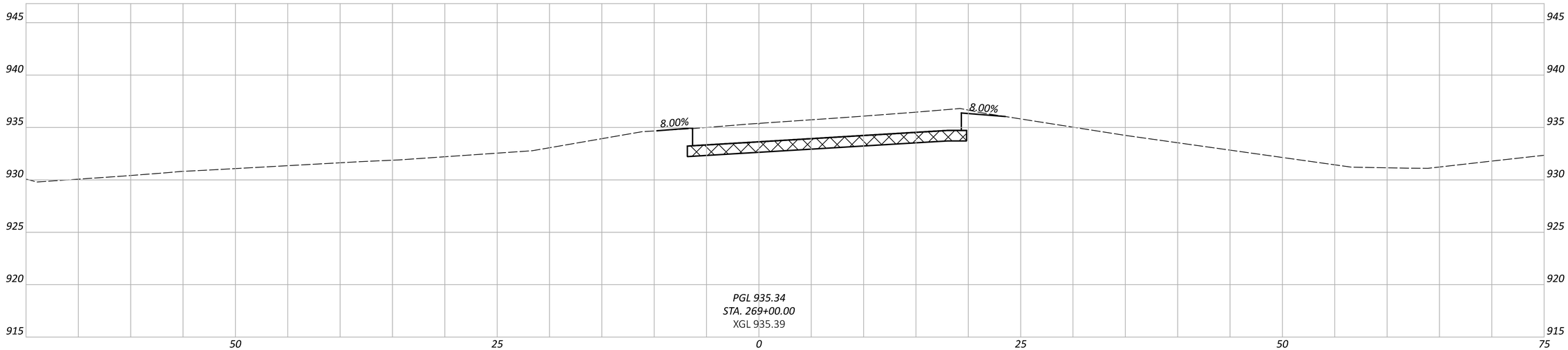
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

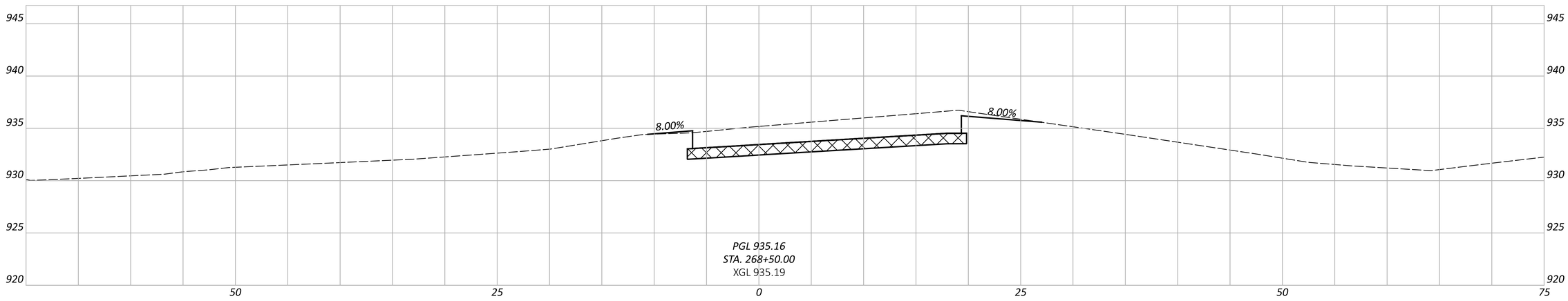
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.421 | TOTAL 577





CROSS SECTIONS - RAMP A
STA 268+50.00 TO STA 269+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.422 | TOTAL 577

FRA-70-00.00

MODEL: BLP_R070A - 268+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:45:59 PM USER: AMerrill
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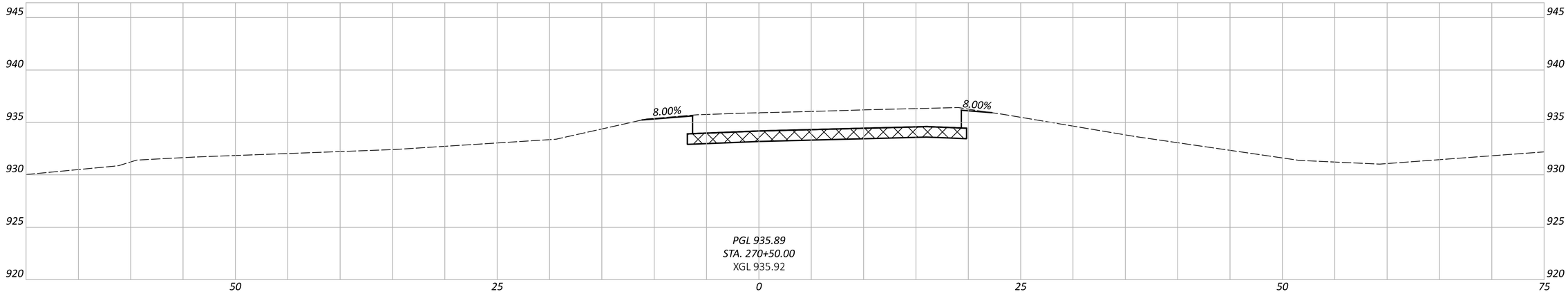

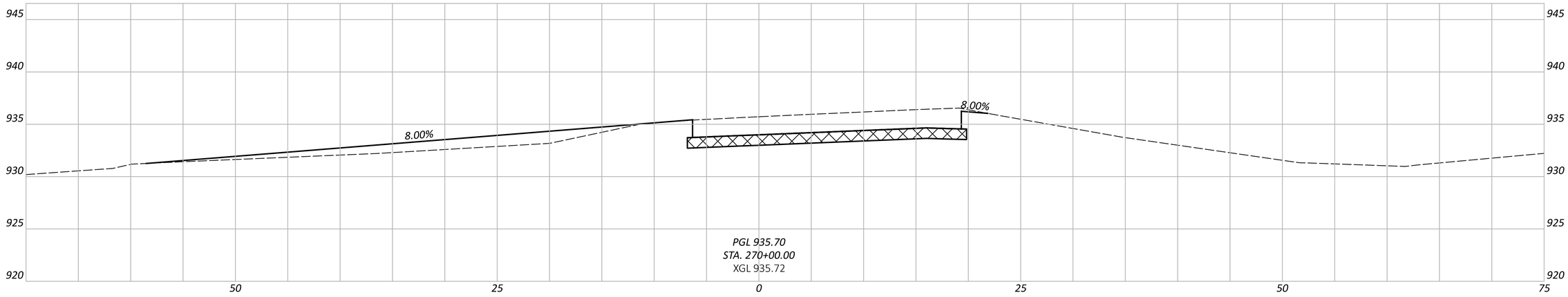

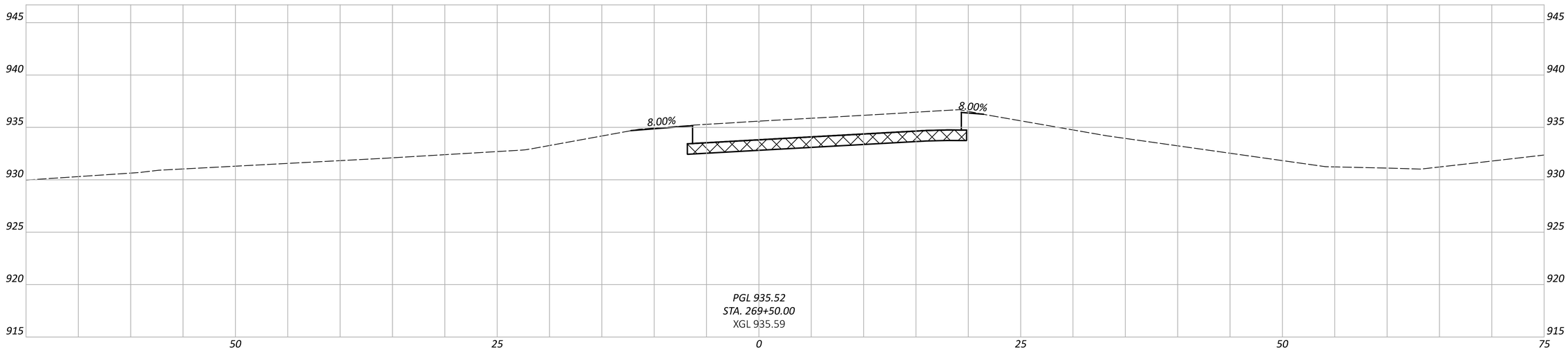

CROSS SECTIONS - RAMP A
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FRA-70-00.00

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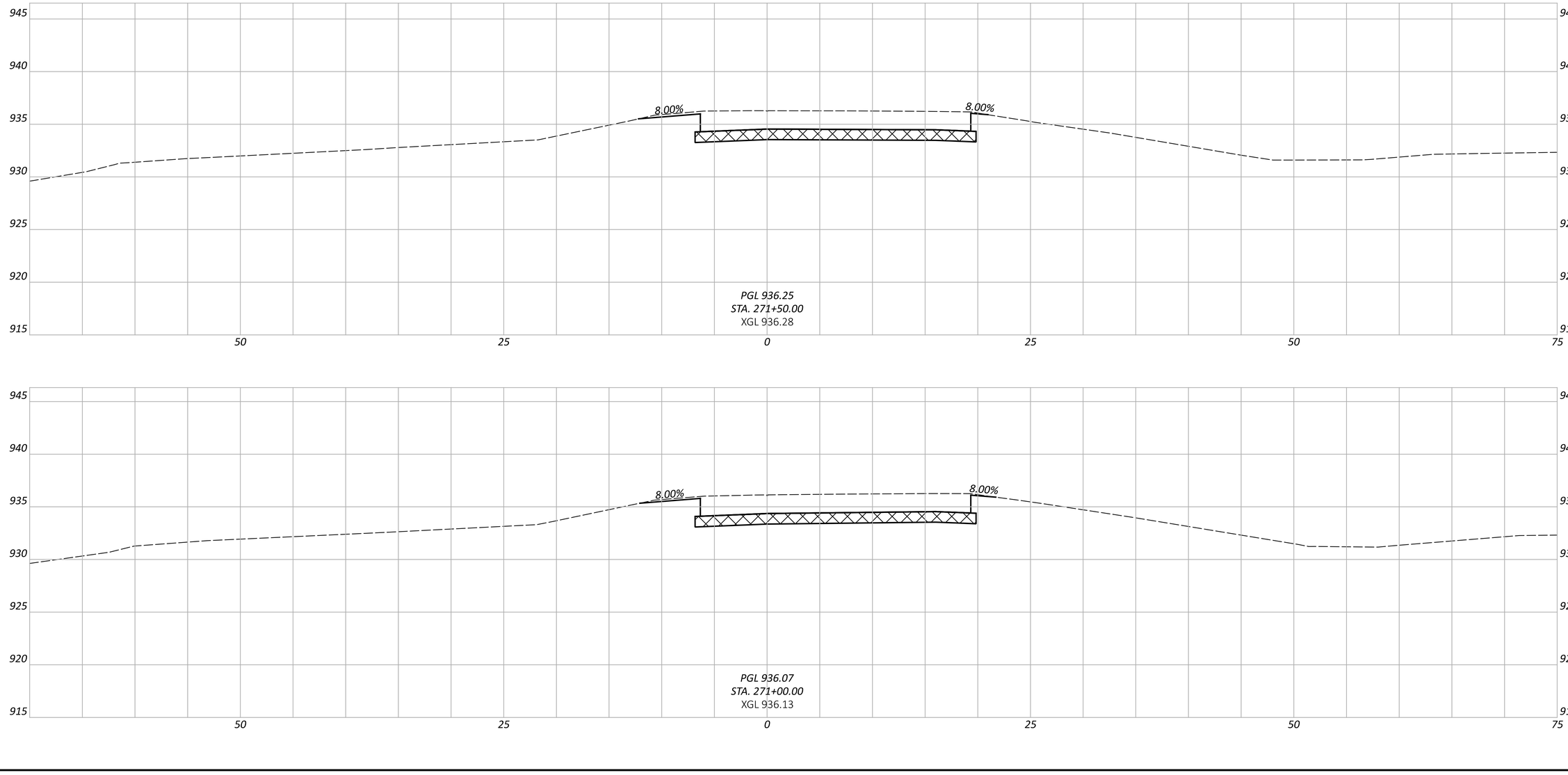
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.423 TOTAL 577



CROSS SECTIONS - RAMP A
STA 271+00.00 TO STA 271+50.00

FRA-70-00.00

MODEL: BLP_R070A - 271+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:06 PM USER: AMerrill
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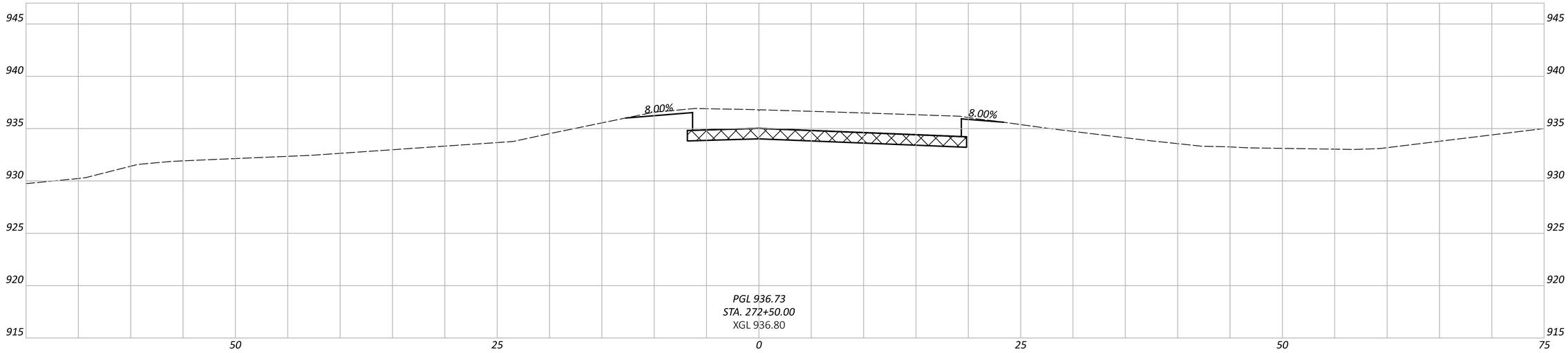
DESIGN AGENCY
WSP USA STRUCTUREPOINT LLC

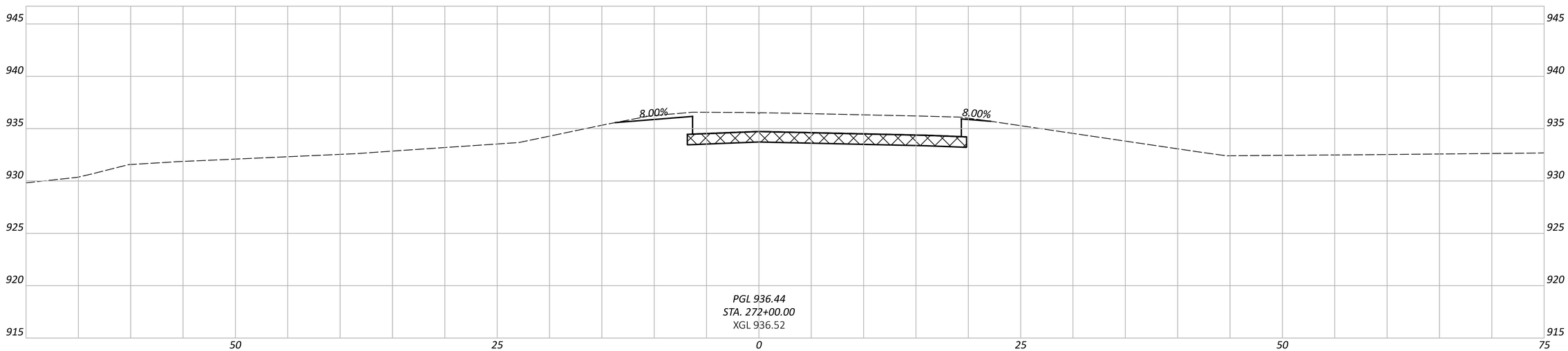
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.424 TOTAL 577





CROSS SECTIONS - RAMP A
STA 272+00.00 TO STA 272+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.425 | TOTAL 577

FRA-70-00.00

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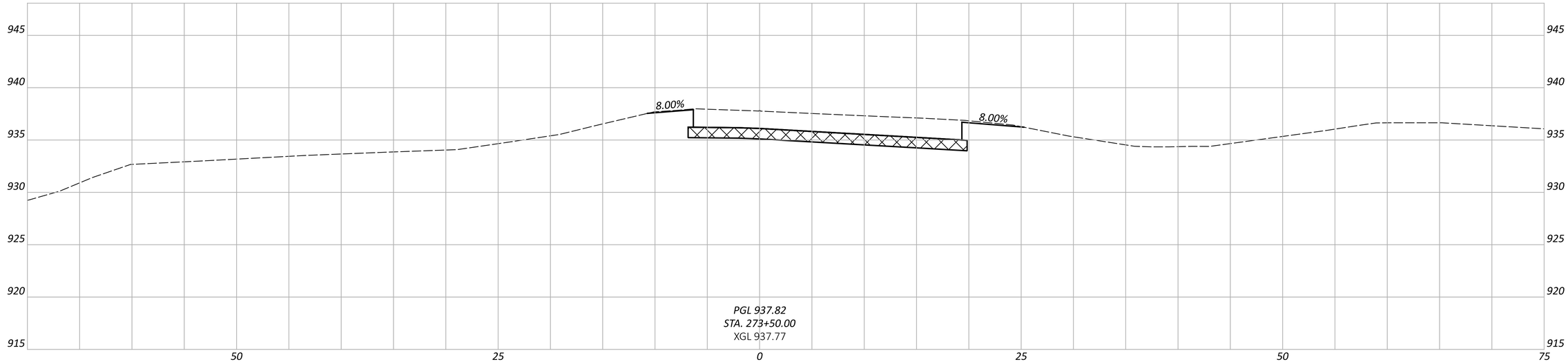

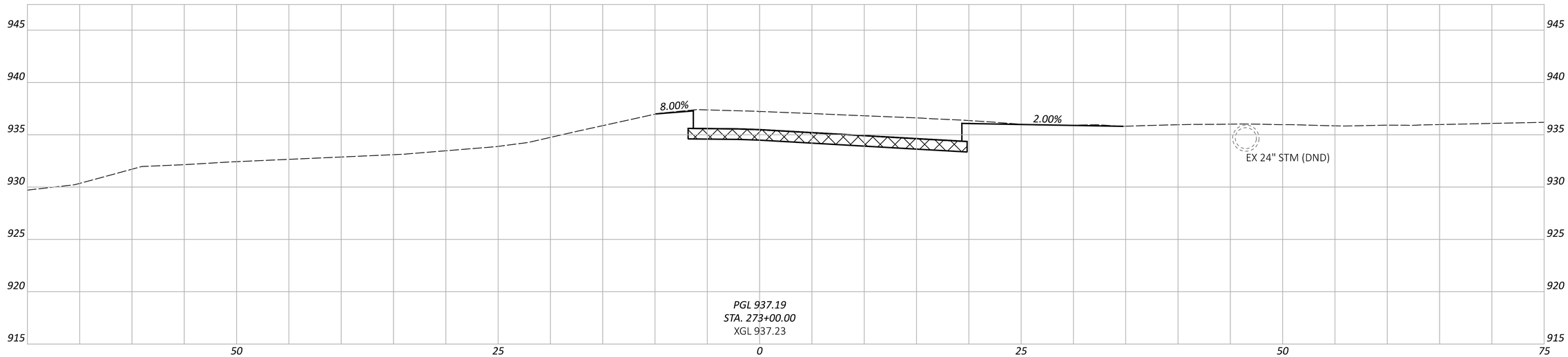

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STA 273+00.00 TO STA 273+50.00

FRA-70-00.00

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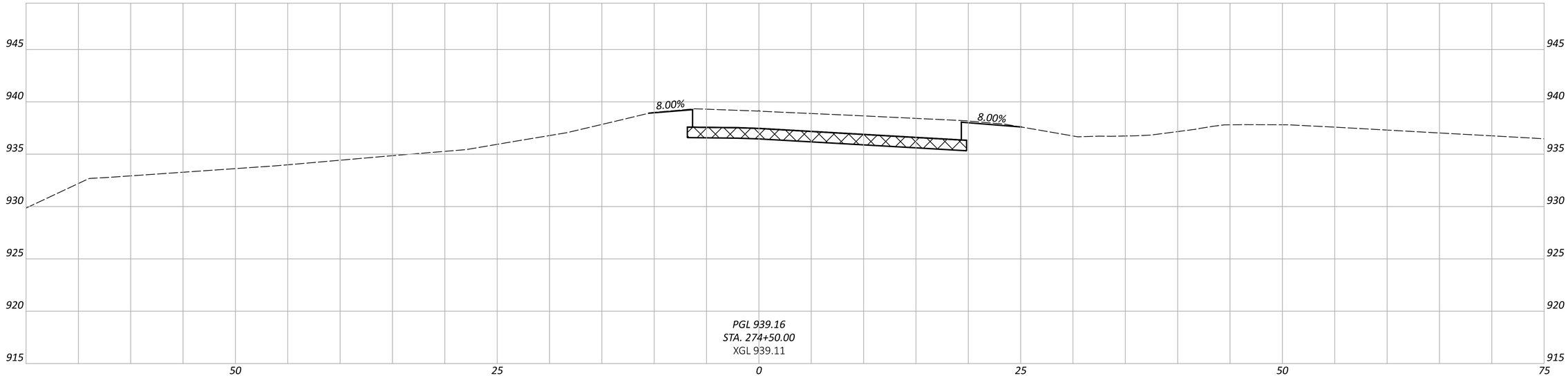
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

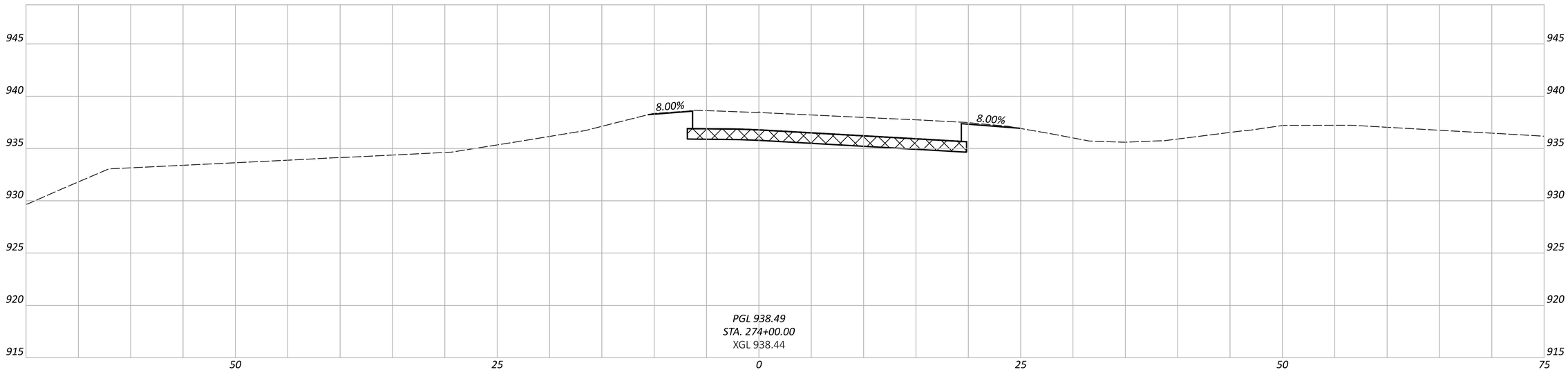
DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.426 TOTAL 577





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STA 274+00.00 TO STA 274+50.00

FRA-70-00.00

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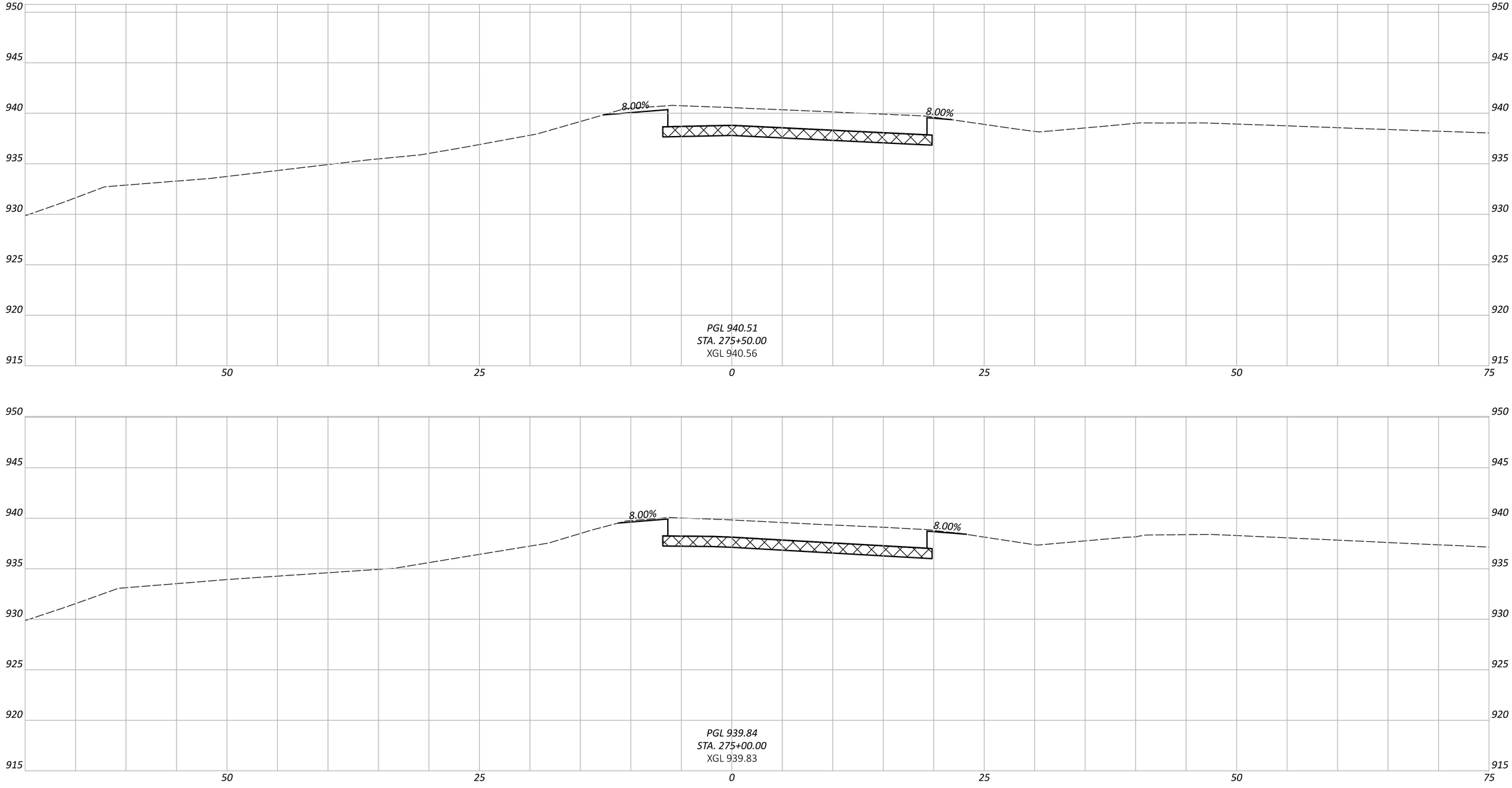
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.427 TOTAL 577



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FRA-70-00.00

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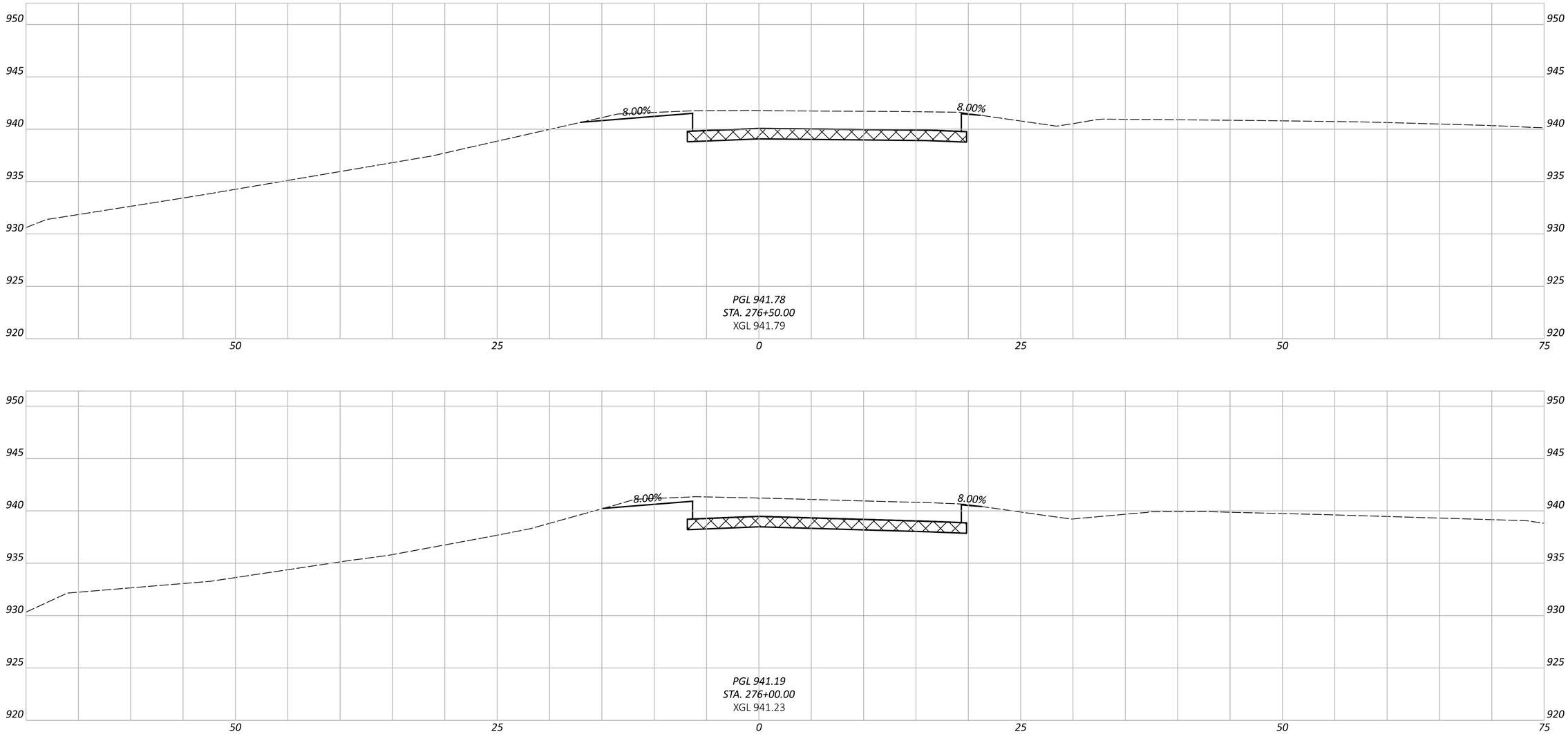
DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.428 TOTAL 577



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FRA-70-00.00

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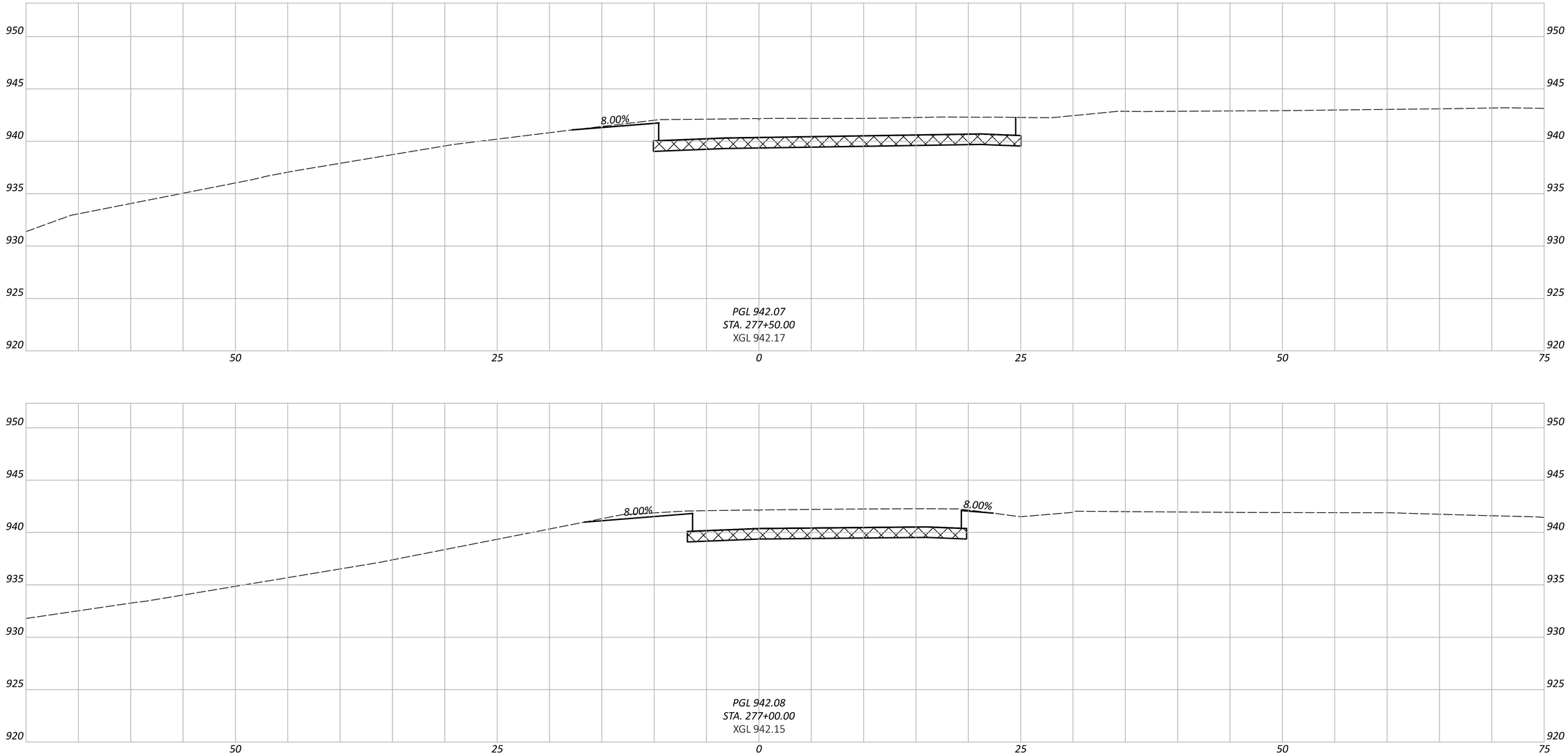
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.429 TOTAL 577



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FRA-70-00.00

MODEL: BLP_R070A - 277+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:24 PM USER: AMerrill
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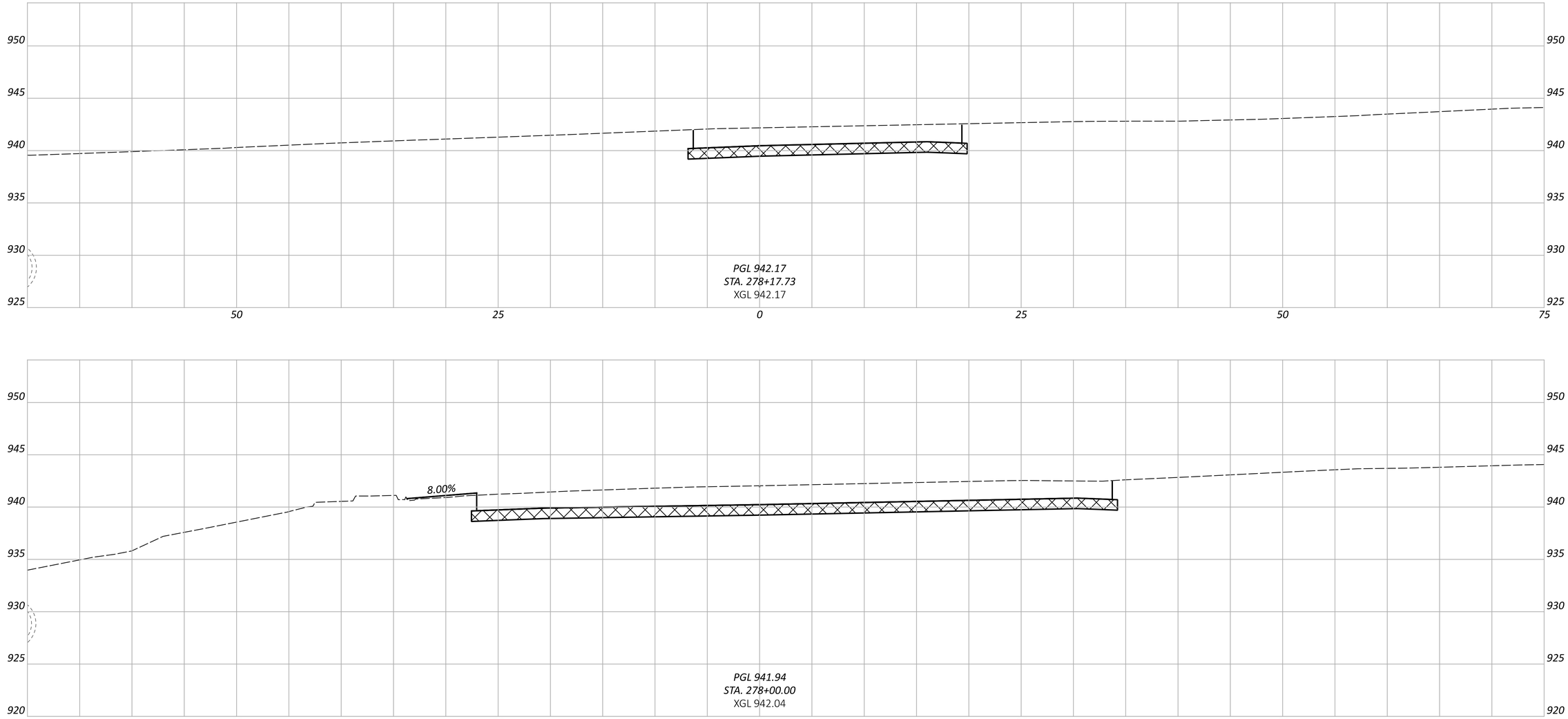
DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.430 TOTAL 577



CROSS SECTIONS - RAMP A
STA 278+00.00 TO STA 278+17.73

FRA-70-00.00

MODEL: BLP_R070A - 278+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:26 PM USER: AMerrill
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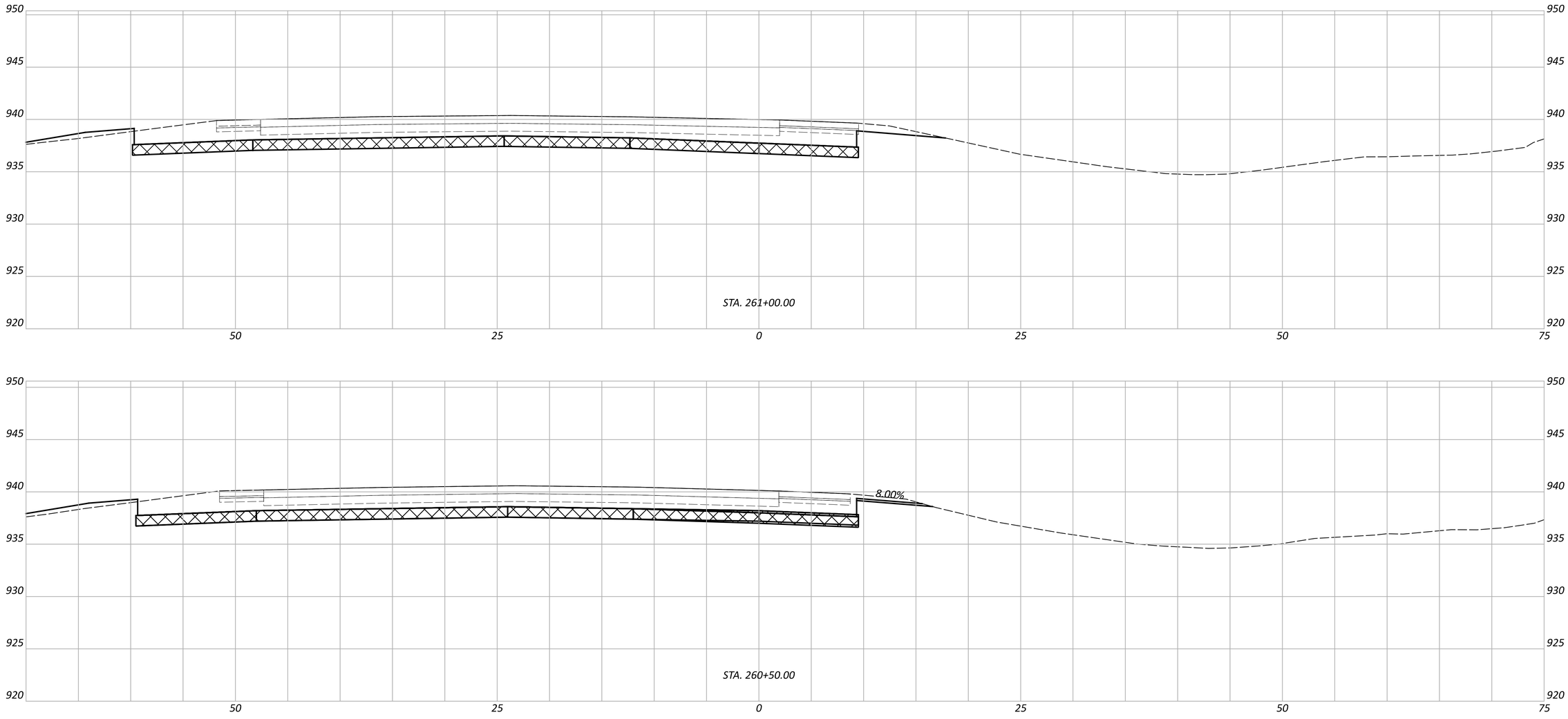
DESIGN AGENCY
AMEREIN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.431 TOTAL 577



CROSS SECTIONS - RAMP E
STA 260+50.00 TO STA 261+00.00

FRA-70-00.00

MODEL: CLX_R070E - 260+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:30 PM USER: AMerrill
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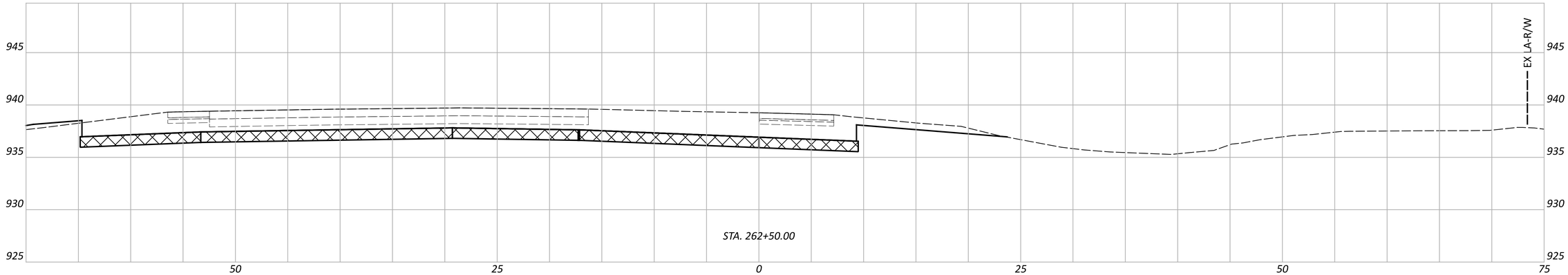
DESIGN AGENCY
STRUCTUREPOINT

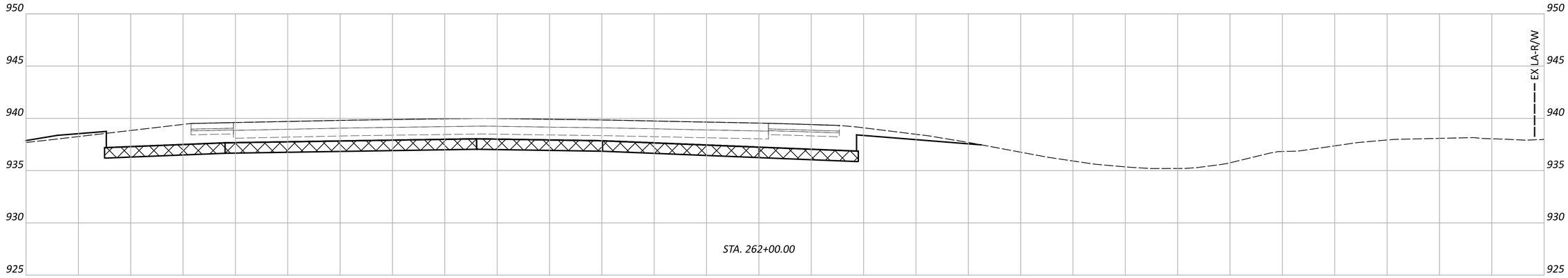
DESIGNER
ARM

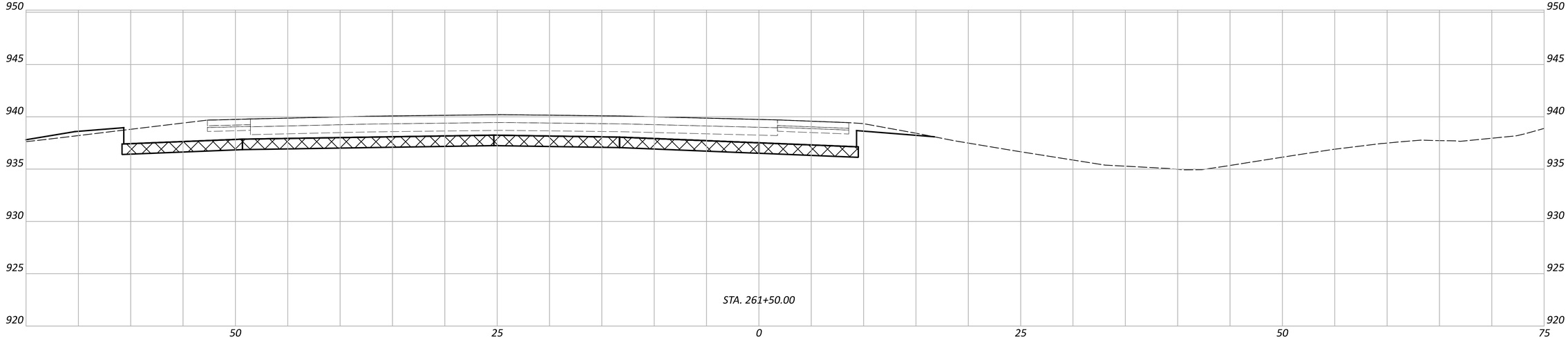
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.432 TOTAL 577







CROSS SECTIONS - RAMP E
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FRA-70-00.00

MODEL: CLX_R070E - 261+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:35 PM USER: AMerrill
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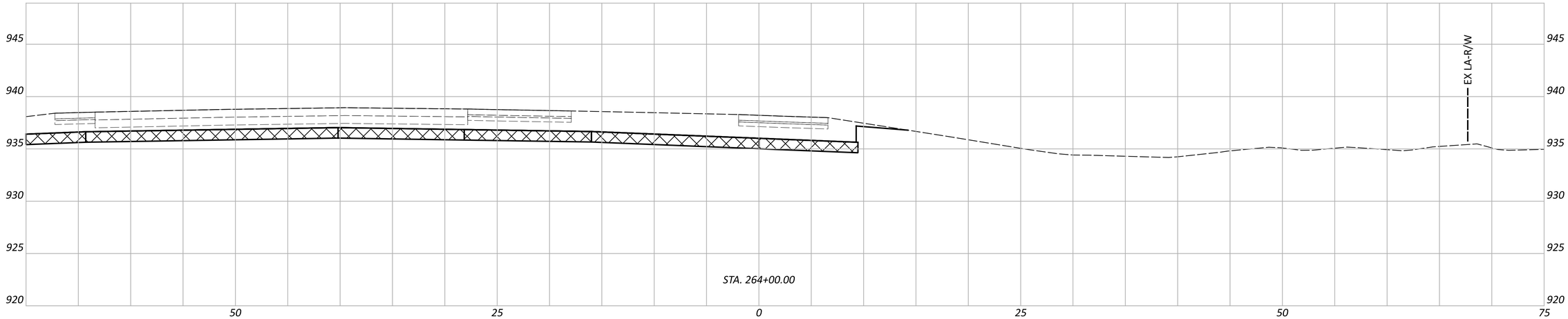
DESIGN AGENCY
MICHAEL BAKER STRUCTUREPOINT INC.

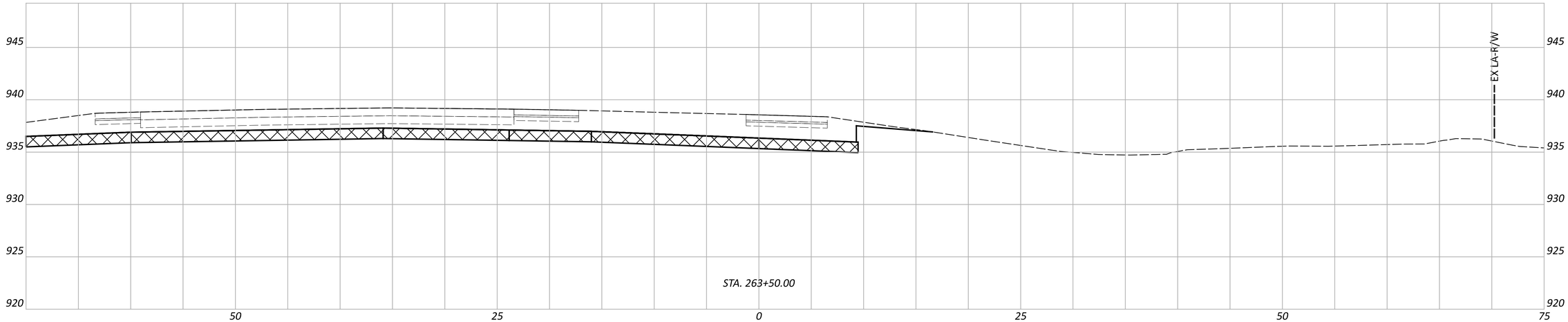
DESIGNER
ARM

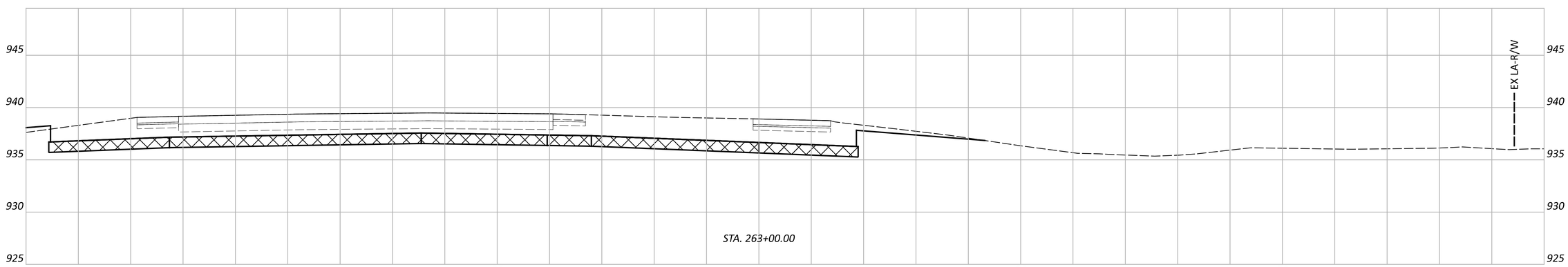
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.433 TOTAL 577







CROSS SECTIONS - RAMP E
STA 263+00.00 TO STA 264+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.434 | TOTAL 577

FRA-70-00.00

MODEL: CLX_R070E - 263+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:39 PM USER: AMerrill
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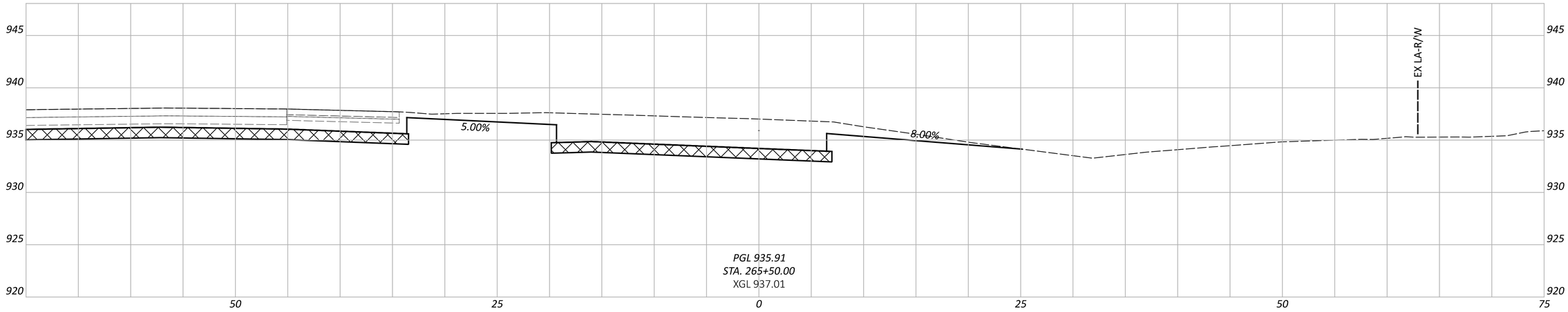

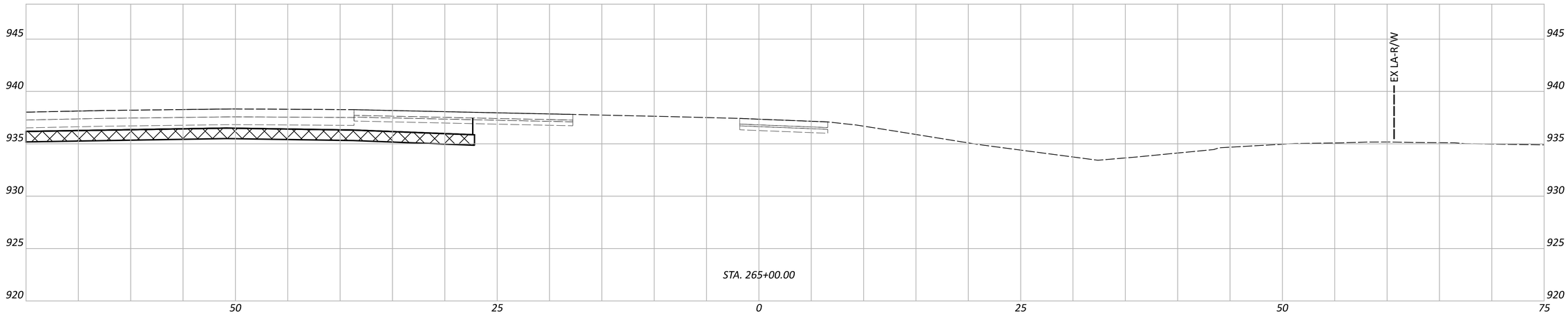

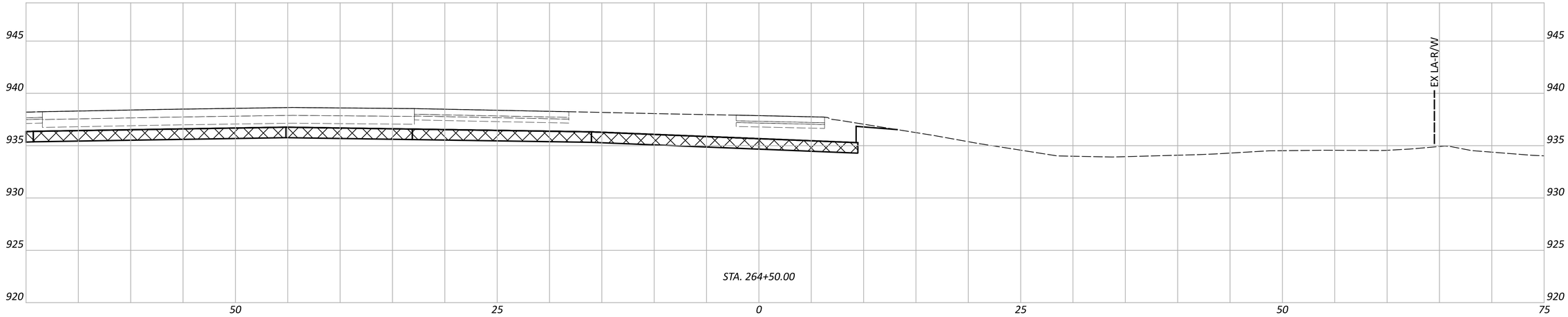

CROSS SECTIONS - RAMP E
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FRA-70-00.00

MODEL: CLX_R070E - 264+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:43 PM USER: AMerrill
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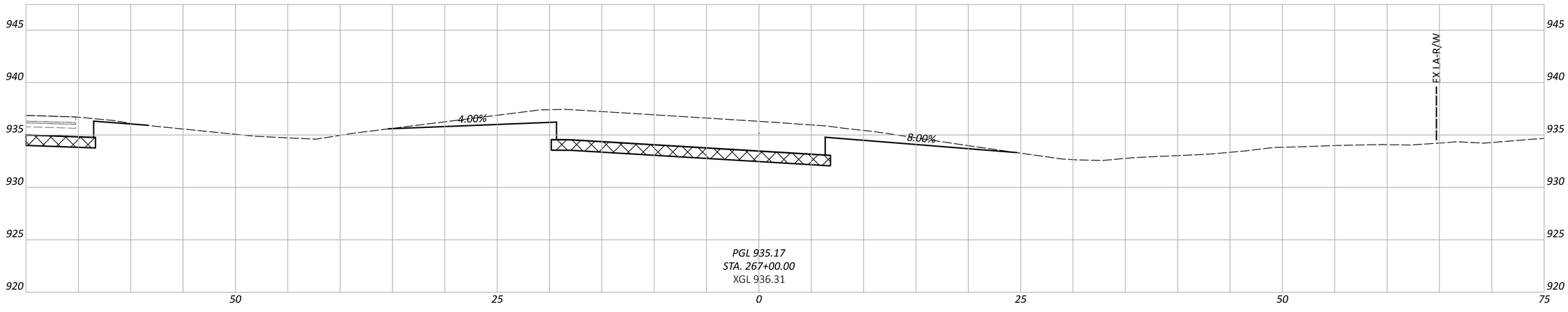
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

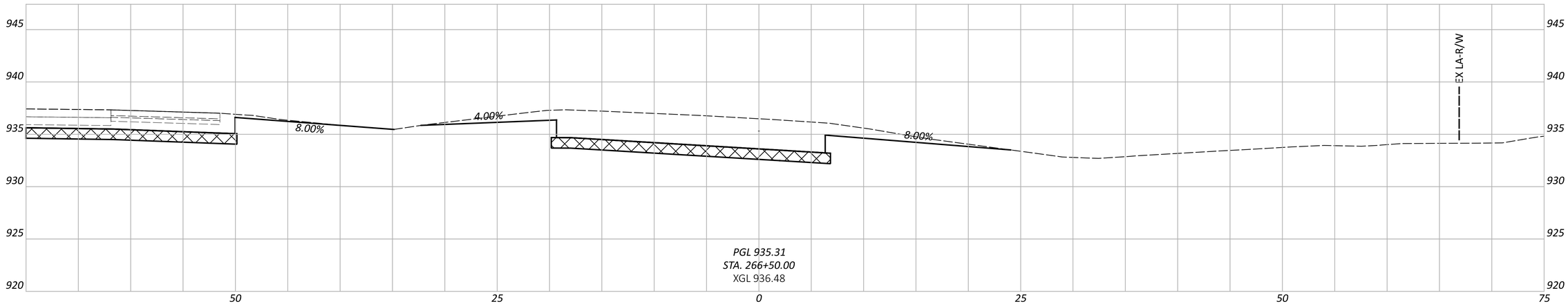
DESIGNER
ARM

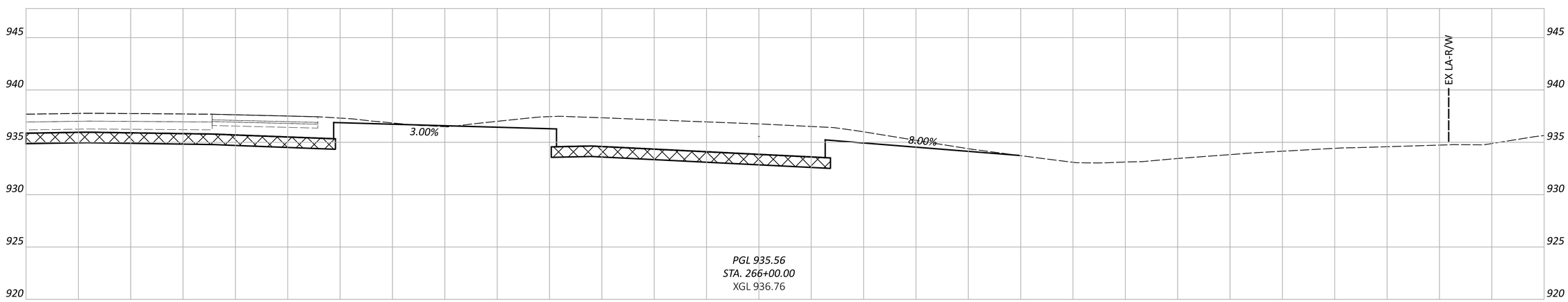
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.435 TOTAL 577







CROSS SECTIONS - RAMP E
STA 266+00.00 TO STA 267+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.436 TOTAL 577

FRA-70-00.00

MODEL: CLX_R70E - 266+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:46 PM USER: AMerrill
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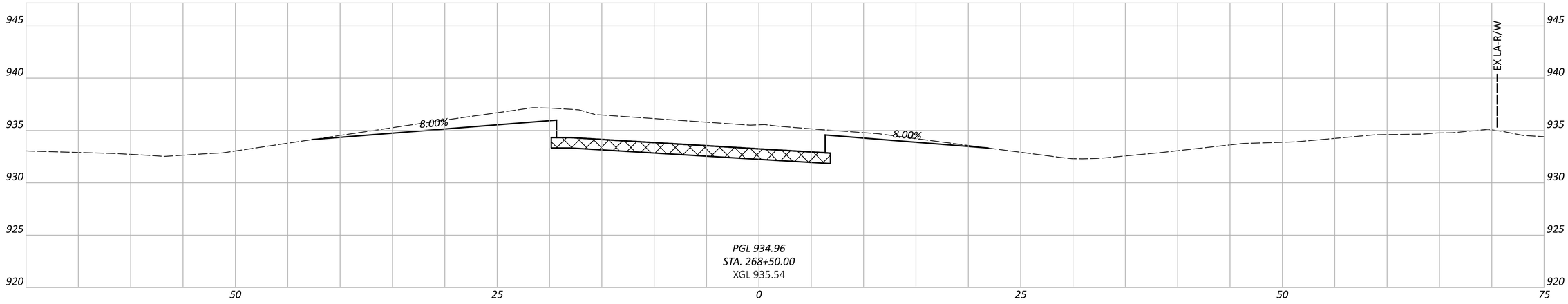

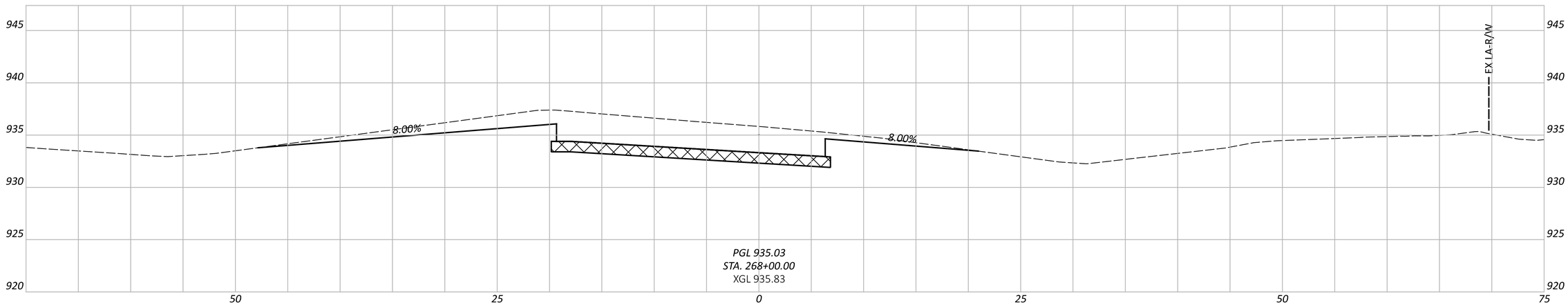

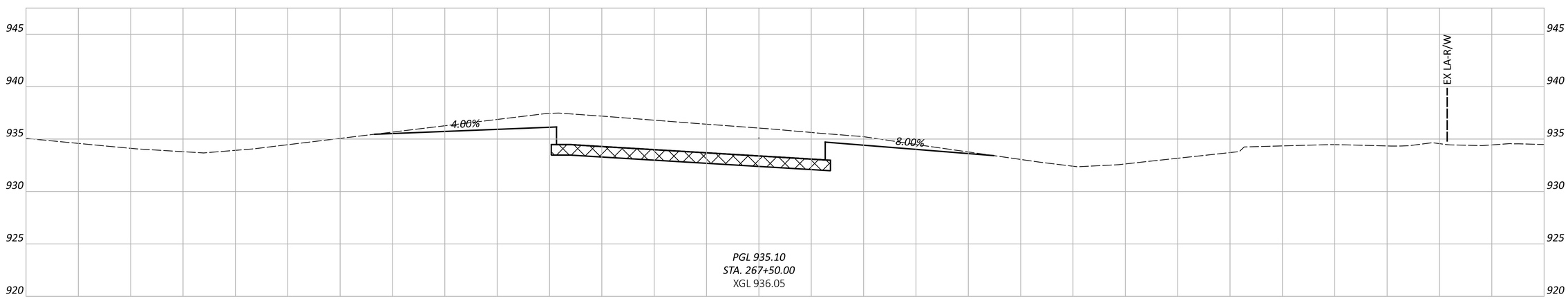

CROSS SECTIONS - RAMP E
STA 267+50.00 TO STA 268+50.00

FRA-70-00.00

MODEL: CLX_R070E - 267+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:50 PM USER: AMerrill
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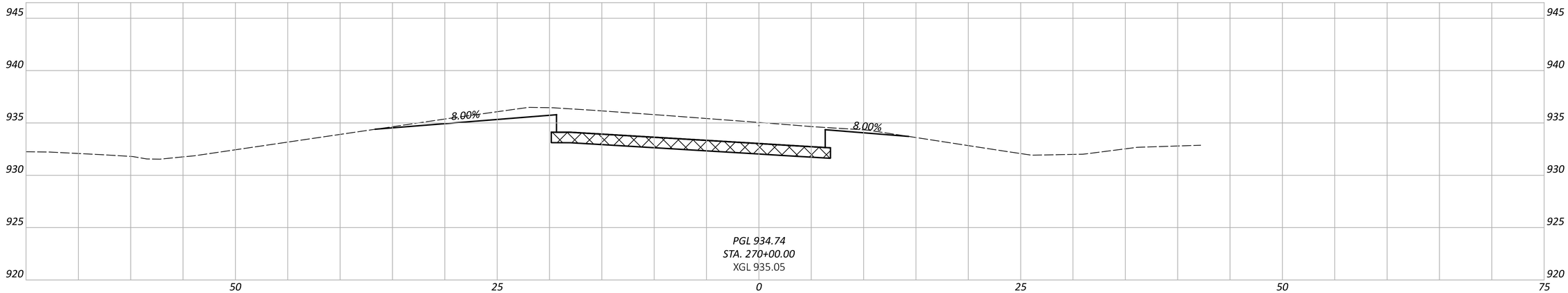
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

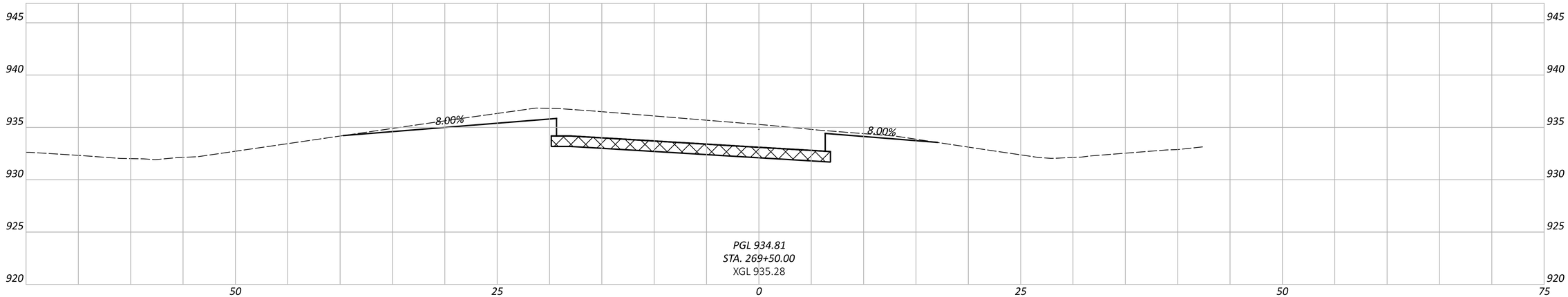
DESIGNER
ARM

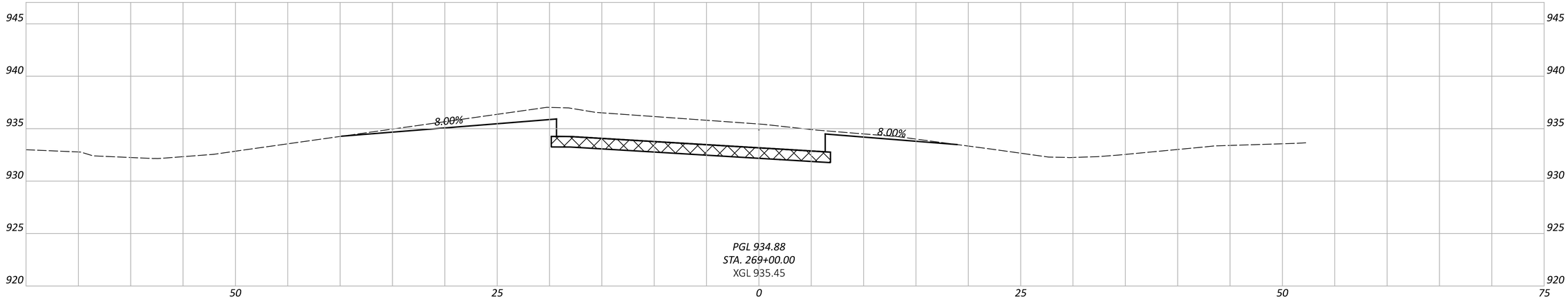
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.437 TOTAL 577







CROSS SECTIONS - RAMP E
STA 269+00.00 TO STA 270+00.00

FRA-70-00.00

MODEL: CLX_R070E - 269+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:55 PM USER: AMerrill
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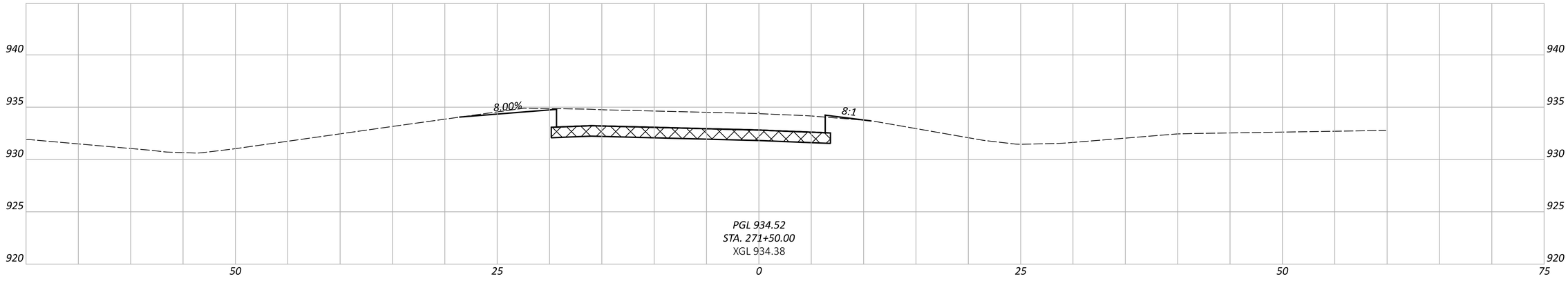
DESIGN AGENCY
WSP USA STRUCTUREPOINT LLC

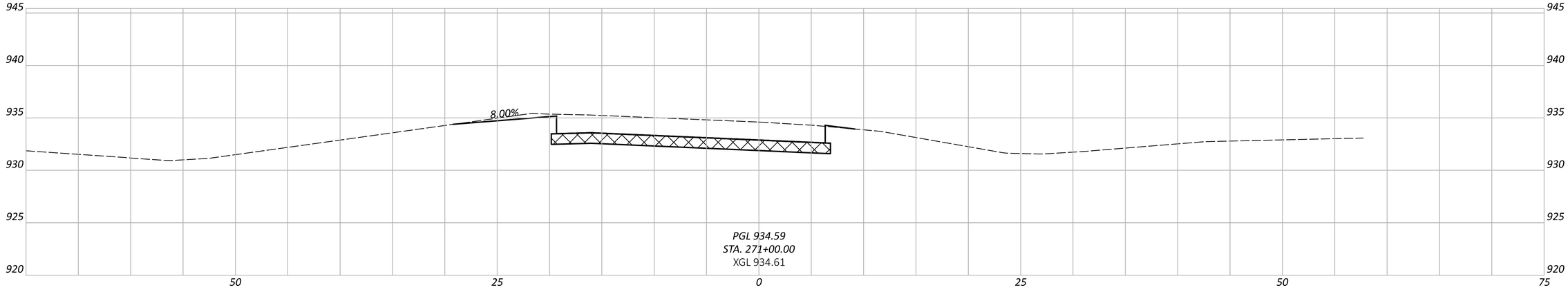
DESIGNER
ARM

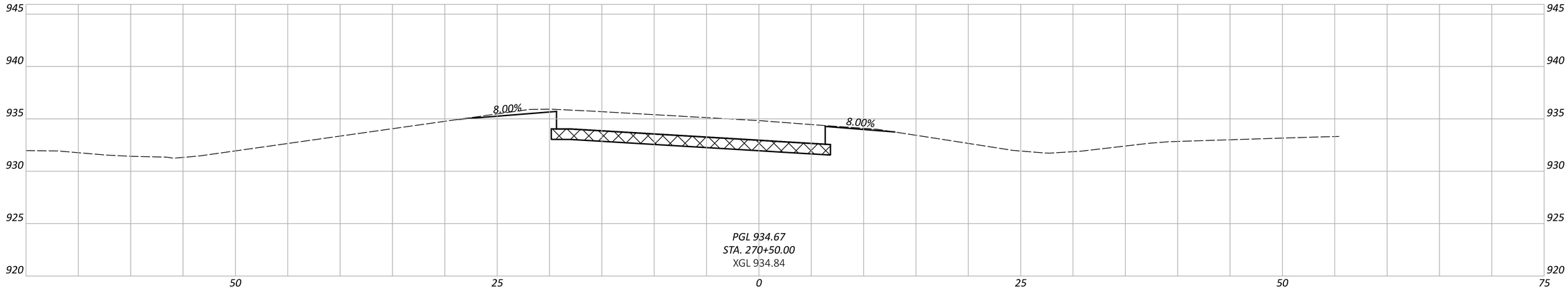
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.438 TOTAL 577







CROSS SECTIONS - RAMP E
STA 270+50.00 TO STA 271+50.00

FRA-70-00.00

MODEL: CLX_R070E - 270+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:46:59 PM USER: AMerrill
O:\2023\00711\C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_XS401.dgn

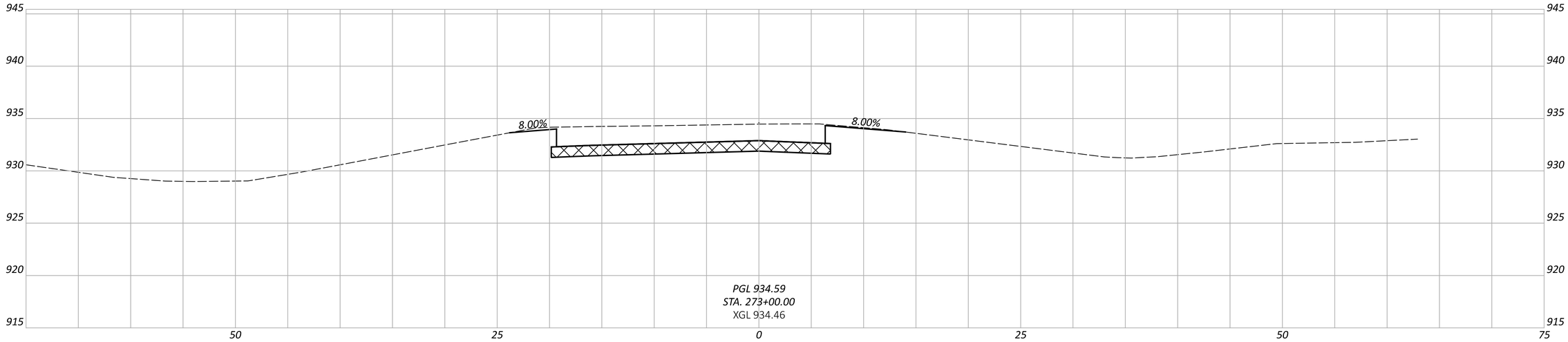
DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.

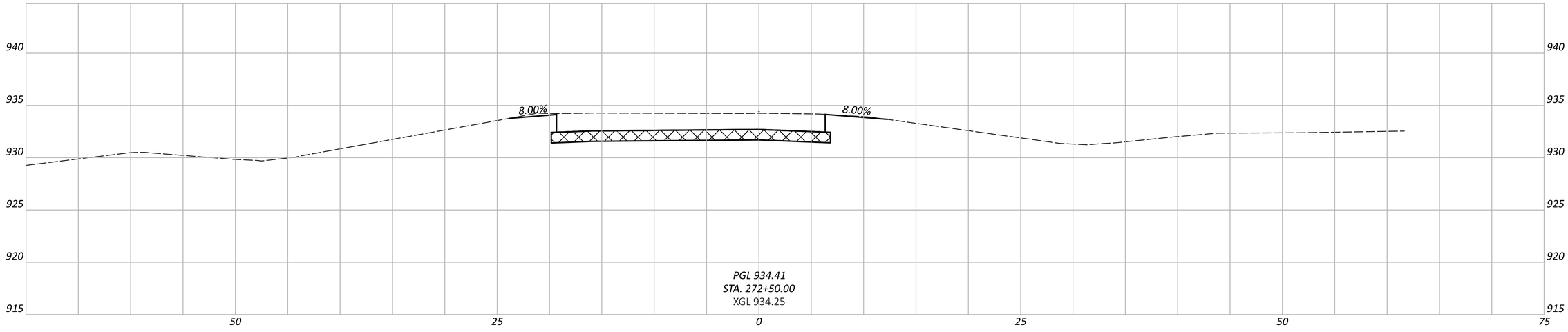
DESIGNER
ARM

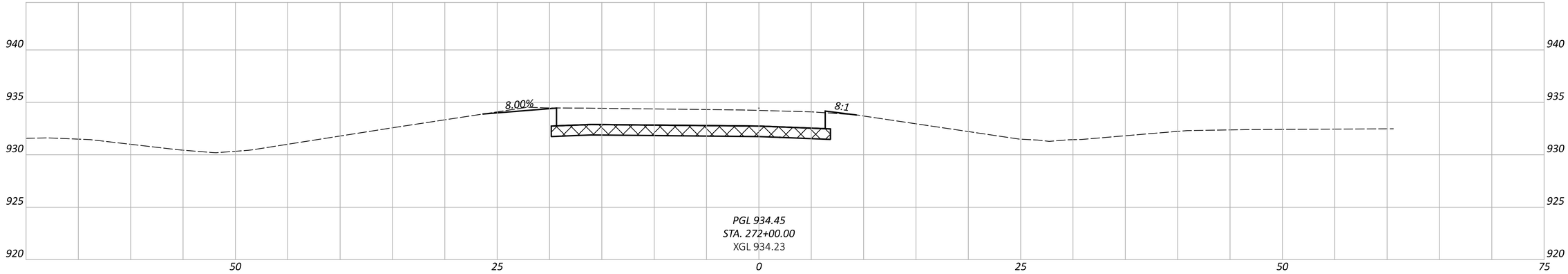
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.439 TOTAL 577







CROSS SECTIONS - RAMP E
STA 272+00.00 TO STA 273+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.440 | TOTAL 577

FRA-70-00.00

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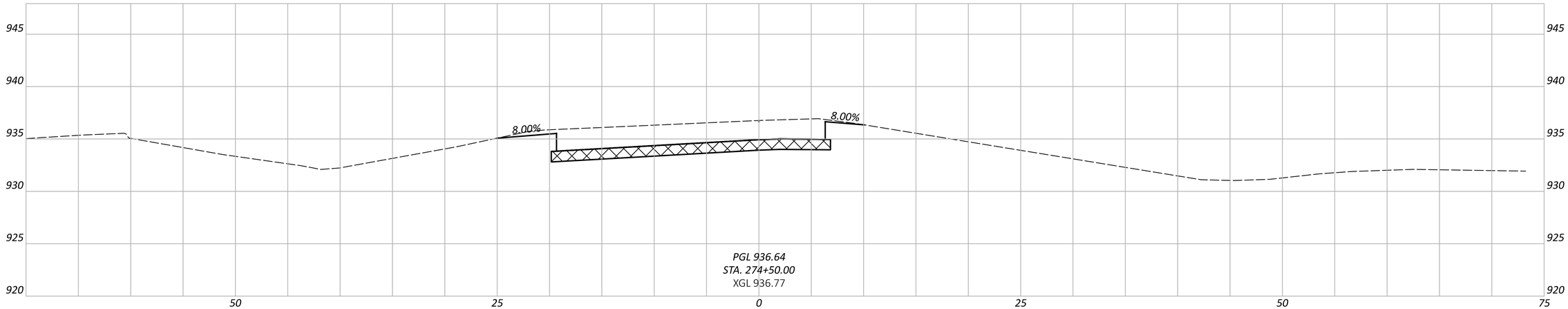

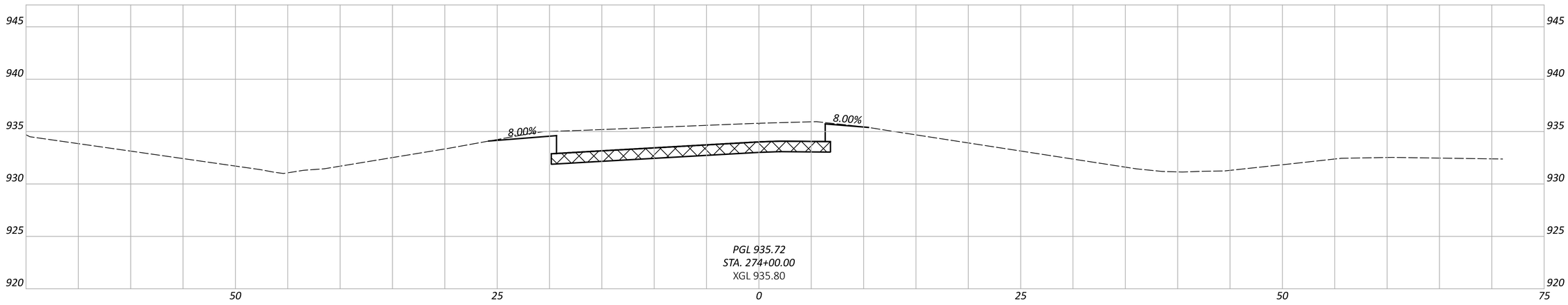

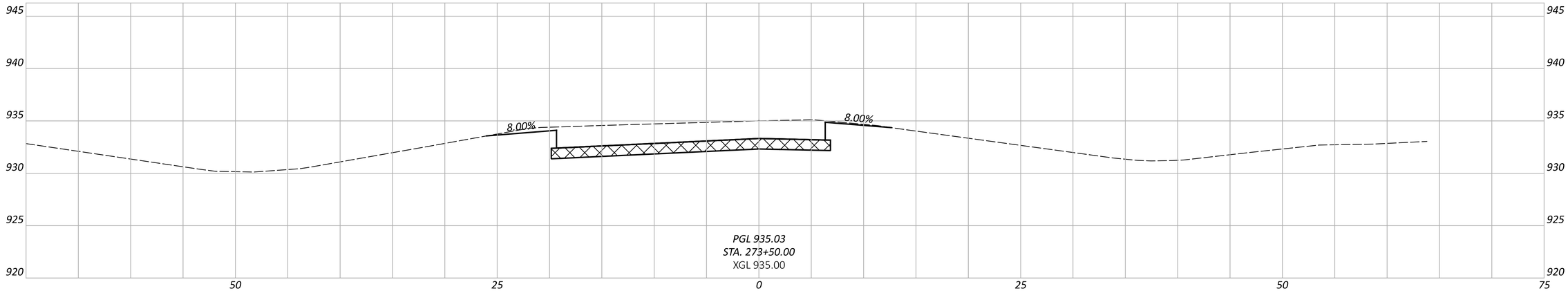

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FRA-70-00.00

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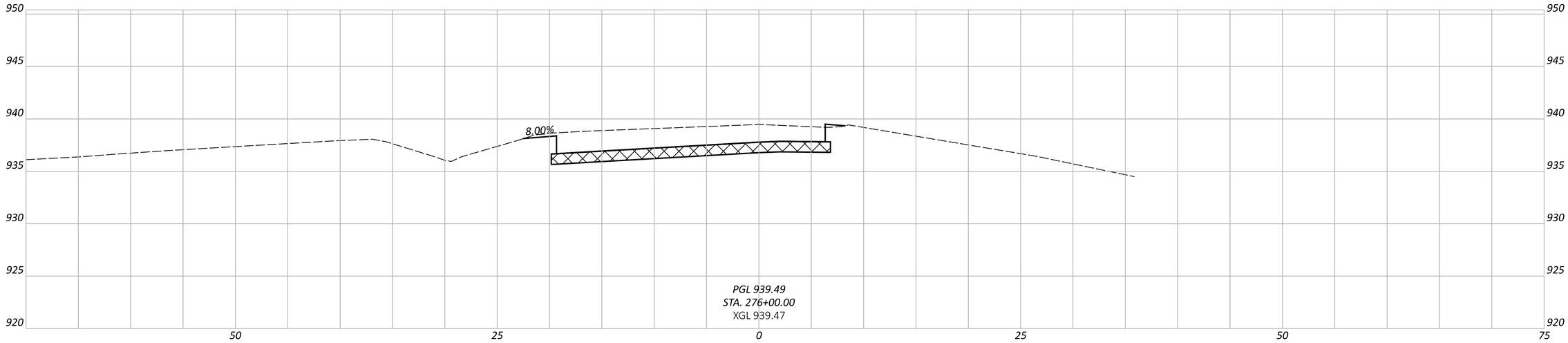
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

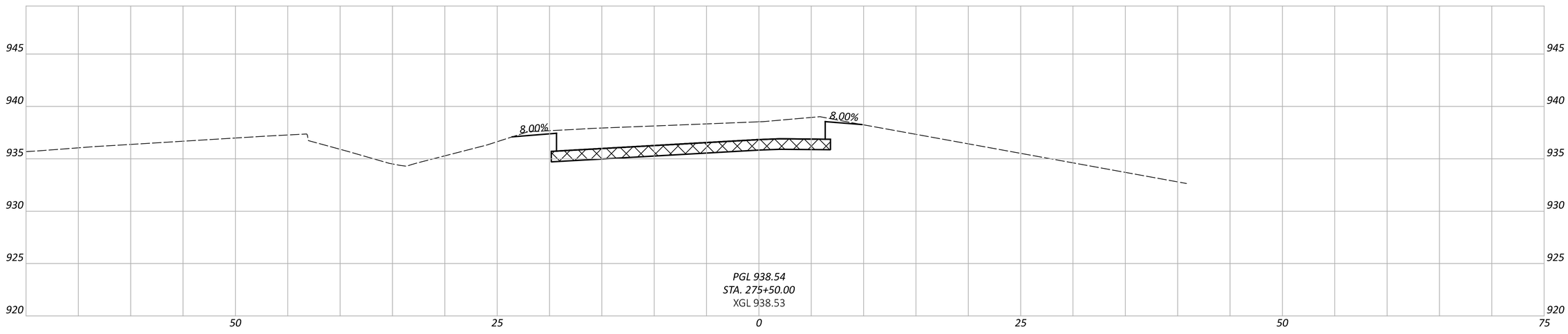
DESIGNER
ARM

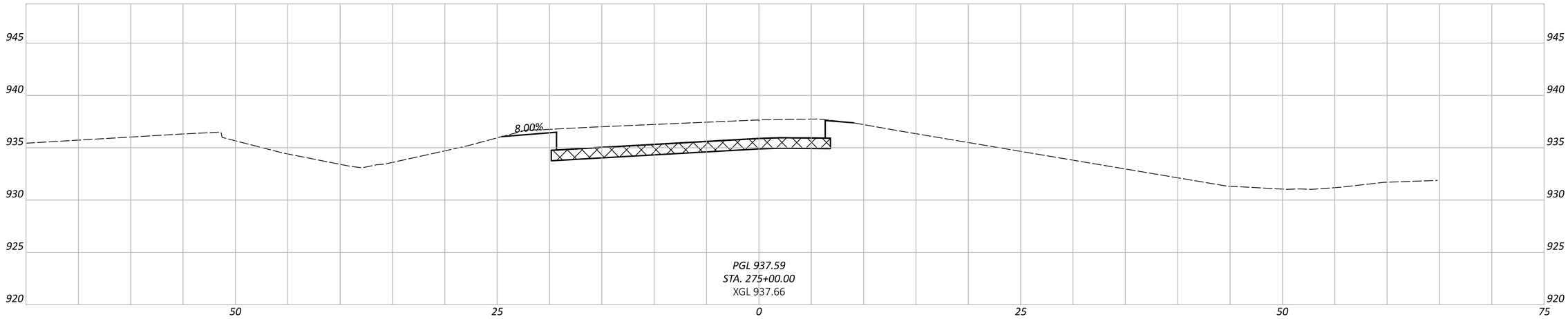
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.441 TOTAL 577







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FRA-70-00.00

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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

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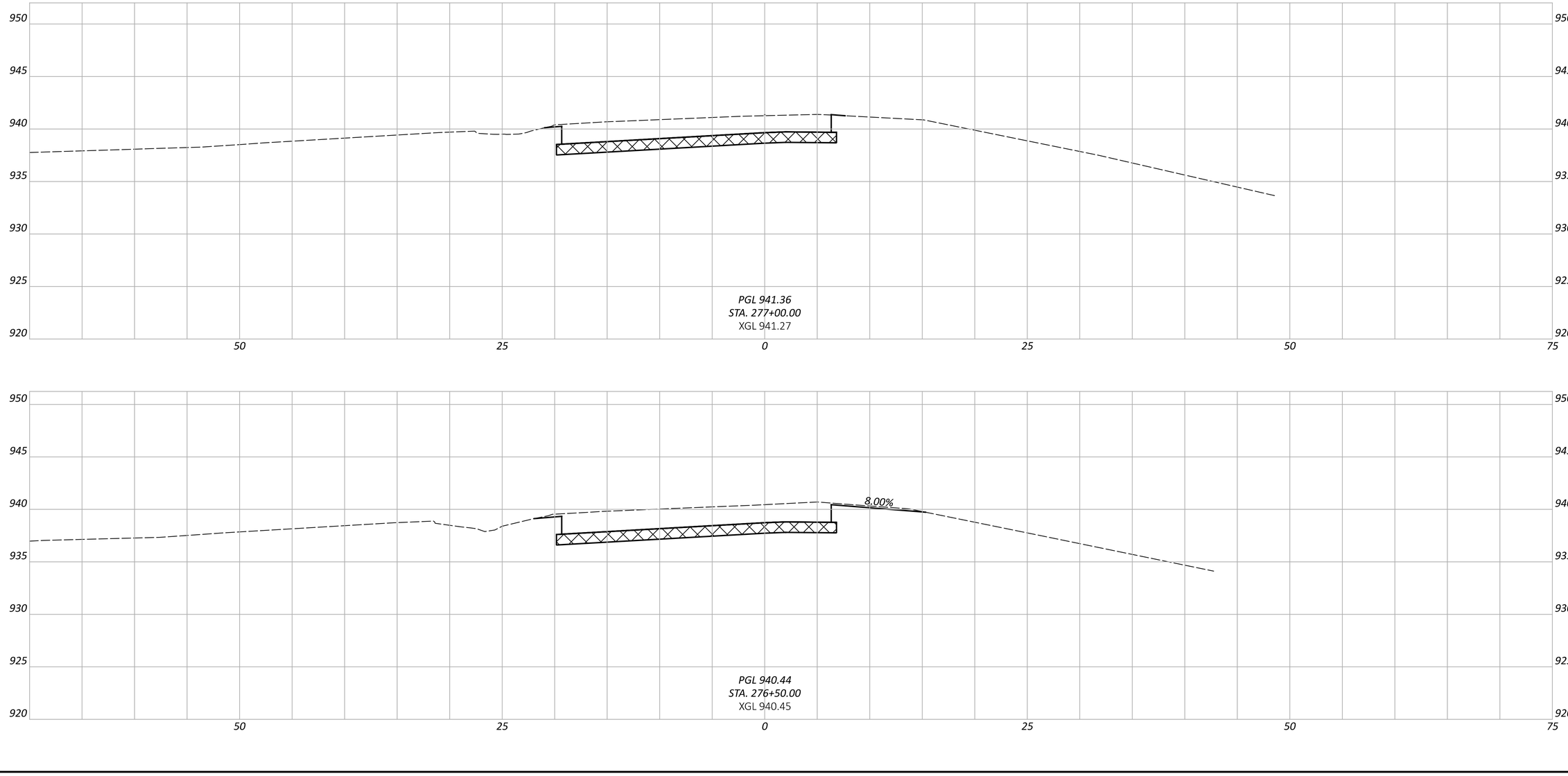
PROJECT ID
116949

SHEET P.442 TOTAL 577



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CROSS SECTIONS - RAMP E
STA 276+50.00 TO STA 277+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

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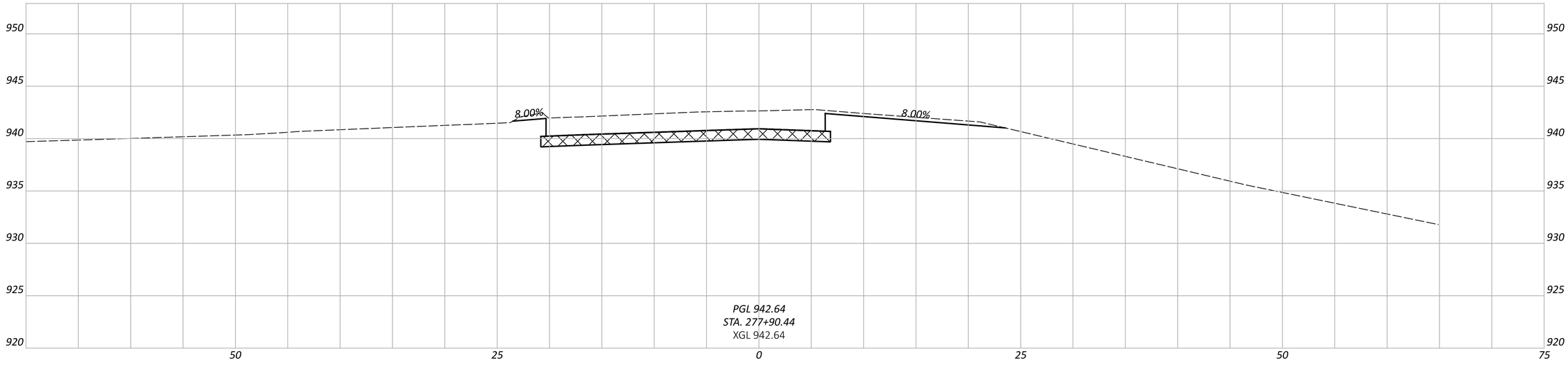
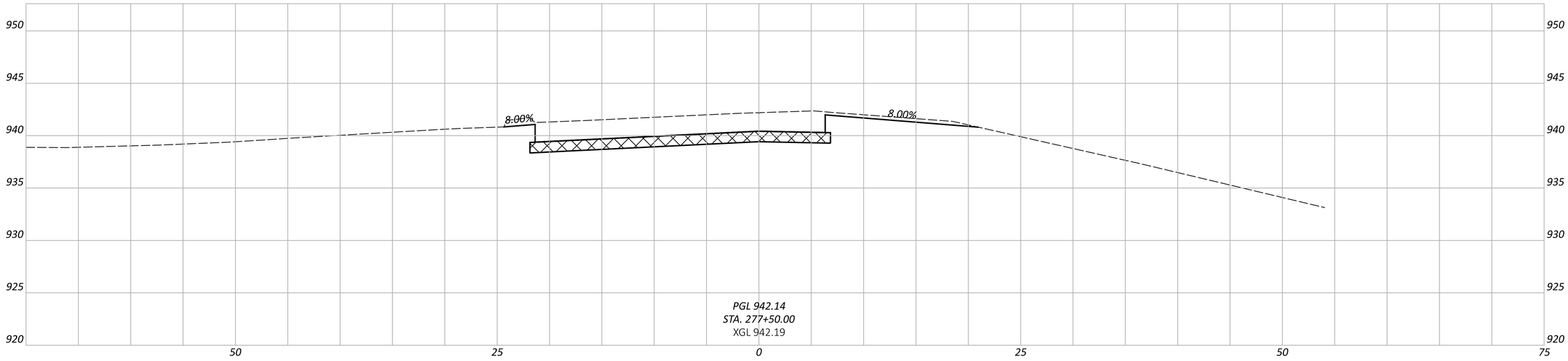
PROJECT ID
116949

SHEET P.443 | TOTAL 577





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STA 277+50.00 TO STA 277+90.44

FRA-70-00.00

MODEL: CLX_R070E - 277+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:47:13 PM USER: AMerrill
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.444 TOTAL 577

EARTHWORK QUANTITIES - TABLE 1				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
1+27.00	82		0	
1+50.00	49	56	3	2
2+00.00	80	120	1	4
2+50.00	95	162	0	1
3+00.00	114	194	0	1
3+50.00	81	182	13	13
4+00.00	89	158	12	24
4+50.00	90	167	10	21
5+00.00	92	169	7	16
5+50.00	100	178	5	12
6+00.00	107	193	4	9
6+50.00	110	202	3	7
7+00.00	114	208	3	6
7+50.00	119	216	2	5
8+00.00	116	218	2	4
8+50.00	110	209	2	4
9+00.00	115	209	0	2
9+50.00	122	220	0	1
10+00.00	127	231	0	0
10+50.00	137	245	0	0
11+00.00	152	268	0	0
11+50.00	169	298	0	0
12+00.00	109	259	12	11
12+50.00	113	206	11	22
13+00.00	110	207	5	15
13+50.00	110	205	4	8
14+00.00	115	209	1	5
14+50.00	121	219	3	5
15+00.00	123	226	1	4
15+50.00	126	231	0	1
16+00.00	121	229	0	0
16+50.00	117	220	1	2
17+00.00	104	205	7	8
17+50.00	102	192	13	19
18+00.00	100	188	15	26
18+50.00	98	184	12	25
19+00.00	95	180	10	21
19+50.00	97	178	5	14
20+00.00	99	182	3	8
20+50.00	102	186	3	6
21+00.00	111	197	1	5
21+50.00	112	207	1	2
22+00.00	108	205	2	4
22+50.00	109	202	5	8
23+00.00	109	203	5	10
23+50.00	112	205	5	10
24+00.00	112	208	7	12
24+50.00	109	205	9	15
25+00.00	112	205	8	17
25+50.00	110	206	7	15
26+00.00	110	204	4	10
26+50.00	115	209	1	4
27+00.00	112	211	2	3
27+50.00	110	207	6	7
28+00.00	110	205	4	10
28+50.00	110	204	3	7
29+00.00	112	206	4	7
29+50.00	112	208	2	6
30+00.00	113	209	2	4
30+50.00	114	212	3	5
31+00.00	115	213	2	5
31+50.00	114	213	3	5
32+00.00	107	206	4	6
32+50.00	106	198	13	16
33+00.00	106	197	8	20
33+50.00	105	196	8	15
34+00.00	108	198	6	13
34+50.00	112	205	3	9
TOTALS CARRIED TO TABLE 3		13553		582

EARTHWORK QUANTITIES - TABLE 2				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
35+00.00	112	208	2	5
35+50.00	115	210	2	4
36+00.00	115	213	3	5
36+50.00	113	212	3	6
37+00.00	118	215	1	4
37+50.00	117	219	1	2
38+00.00	116	217	2	4
38+50.00	117	217	3	5
39+00.00	116	217	3	5
39+50.00	113	213	4	6
40+00.00	110	207	6	10
40+50.00	103	198	7	13
41+00.00	108	196	3	10
41+50.00	126	217	1	4
42+00.00	130	238	0	1
42+50.00	131	242	0	0
43+00.00	136	248	0	0
43+50.00	140	256	0	0
44+00.00	151	270	0	0
44+50.00	144	273	0	0
45+00.00	160	282	0	0
45+50.00	147	285	0	1
46+00.00	141	268	0	1
46+50.00	139	259	0	1
47+00.00	134	253	0	1
47+50.00	128	244	1	1
48+00.00	122	232	2	3
48+50.00	118	223	3	5
49+00.00	116	217	2	5
49+50.00	119	218	2	5
50+00.00	117	219	3	6
50+50.00	116	216	3	6
51+00.00	119	217	2	5
51+50.00	118	220	1	3
52+00.00	119	220	1	3
52+50.00	115	217	2	4
53+00.00	113	212	2	5
53+50.00	112	209	1	4
54+00.00	108	205	7	8
54+50.00	112	204	5	12
55+00.00	113	208	6	11
55+50.00	114	210	7	13
56+00.00	111	209	8	15
56+50.00	113	208	9	16
57+00.00	113	210	9	17
57+50.00	113	210	10	18
58+00.00	112	209	9	18
58+50.00	112	208	7	15
59+00.00	110	206	8	14
59+50.00	105	199	10	17
60+00.00	103	193	11	20
60+50.00	105	193	13	23
61+00.00	111	201	5	18
61+50.00	117	212	4	9
62+00.00	121	221	3	7
62+50.00	113	217	15	17
63+00.00	113	210	10	24
63+50.00	109	206	10	19
64+00.00	109	203	9	18
64+50.00	107	200	11	19
65+00.00	107	198	10	19
65+50.00	110	201	10	19
66+00.00	108	202	9	18
66+50.00	108	201	6	14
67+00.00	112	204	4	10
67+50.00	113	209	6	10
68+00.00	117	214	5	10
68+50.00	114	215	5	10
TOTALS CARRIED TO TABLE 3		14883		601

EARTHWORK QUANTITIES - TABLE 3				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
69+00.00	111	209	8	13
69+50.00	106	202	11	19
70+00.00	104	196	13	23
70+50.00	106	195	11	23
71+00.00	109	200	8	19
71+50.00	116	209	4	12
72+00.00	132	230	2	6
72+50.00	121	235	7	9
73+00.00	118	222	8	14
73+50.00	120	221	6	13
74+00.00	111	215	4	10
74+50.00	109	205	6	10
75+00.00	113	207	9	14
75+50.00	110	207	20	27
76+00.00	102	196	29	46
76+50.00	101	189	19	45
77+00.00	103	190	16	33
77+50.00	104	192	12	26
78+00.00	107	196	11	22
78+50.00	111	202	6	16
79+00.00	112	207	4	10
79+50.00	109	206	3	7
80+00.00	107	201	2	5
80+50.00	104	196	4	7
81+00.00	100	189	7	11
81+50.00	100	186	7	14
82+00.00	102	187	6	13
82+50.00	102	189	5	10
83+00.00	101	189	6	11
83+50.00	101	188	5	11
84+00.00	100	187	5	10
84+50.00	98	183	12	16
85+00.00	98	182	15	26
85+50.00	99	183	17	30
86+00.00	99	183	15	29
86+50.00	100	185	14	27
87+00.00	101	187	11	24
87+50.00	101	187	9	20
88+00.00	98	185	9	18
88+50.00	105	188	5	14
89+00.00	109	199	4	9
89+50.00	109	202	6	9
90+00.00	103	196	8	14
90+50.00	104	193	8	16
91+00.00	107	196	8	16
91+50.00	107	199	9	16
92+00.00	111	203	8	16
92+50.00	112	207	6	13
93+00.00	103	200	12	17
93+50.00	102	190	16	26
94+00.00	102	189	16	30
94+50.00	103	190	12	26
95+00.00	105	193	12	22
95+50.00	104	194	11	22
96+00.00	104	194	14	24
96+50.00	103	193	16	28
97+00.00	103	192	14	28
97+50.00	101	190	12	25
TOTALS THIS TABLE		11426		1070
TOTALS FROM TABLE 1		13553		582
TOTALS FROM TABLE 2		14883		601
TOTALS CARRIED TO SHEET P.448		39862		2253

EARTHWORK SUBSUMMARY

FRA-70-00.00

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:47:18 PM USER: AMerrill
O:\2023\007111\C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_GQ001.dgn

DESIGN AGENCY
WIEDEKER STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.445 | TOTAL 577

EARTHWORK QUANTITIES - TABLE 4				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
98+00.00	100	187	11	21
98+50.00	100	186	10	20
99+00.00	99	185	9	18
99+50.00	98	183	8	16
100+00.00	99	183	10	17
100+50.00	98	183	10	19
101+00.00	97	180	9	19
101+50.00	98	180	7	15
102+00.00	96	180	11	17
102+50.00	95	178	16	25
103+00.00	99	181	10	24
103+50.00	102	187	10	19
104+00.00	102	190	8	17
104+50.00	102	189	8	16
105+00.00	98	185	11	19
105+50.00	94	179	12	22
106+00.00	91	172	11	22
106+50.00	90	169	10	20
107+00.00	87	165	11	20
107+50.00	85	160	13	23
108+00.00	87	160	13	24
108+50.00	88	163	16	27
109+00.00	92	167	19	32
109+50.00	99	177	20	36
110+00.00	92	177	19	37
110+50.00	84	163	15	33
111+00.00	81	153	18	31
111+50.00	83	152	22	37
112+00.00	77	148	17	37
112+50.00	84	149	13	29
113+00.00	92	164	7	19
113+50.00	98	176	5	11
114+00.00	102	186	4	8
114+50.00	108	195	2	6
115+00.00	110	201	2	4
115+50.00	110	204	3	4
116+00.00	109	203	4	7
116+50.00	108	202	7	10
117+00.00	109	202	8	14
117+50.00	112	205	5	12
118+00.00	111	207	4	8
118+50.00	113	208	3	6
119+00.00	110	206	5	7
119+50.00	108	202	5	9
120+00.00	109	202	4	8
120+50.00	116	209	0	4
121+00.00	110	210	4	4
121+50.00	109	203	4	7
122+00.00	108	201	4	8
122+50.00	109	202	4	8
123+00.00	110	203	5	9
123+50.00	111	205	2	6
124+00.00	113	208	0	2
124+50.00	114	211	3	4
125+00.00	112	210	4	7
125+50.00	110	205	4	8
126+00.00	110	204	4	8
126+50.00	109	204	6	10
127+00.00	106	200	8	13
127+50.00	107	198	8	15
128+00.00	104	195	9	17
128+50.00	96	186	8	17
129+00.00	95	177	10	17
129+50.00	95	176	11	20
130+00.00	98	179	9	19
130+50.00	102	186	7	15
131+00.00	107	194	6	12
131+50.00	104	195	7	12
TOTALS CARRIED TO TABLE 6	12735			1087

EARTHWORK QUANTITIES - TABLE 5				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
132+00.00	98	188	8	14
132+50.00	100	184	4	11
133+00.00	109	193	0	4
133+50.00	116	208	0	1
134+00.00	126	224	0	0
134+50.00	130	237	0	0
135+00.00	-115	15	0	0
135+50.00	143	27	0	1
136+00.00	156	277	0	1
136+50.00	116	252	0	0
137+00.00	117	216	0	0
137+50.00	127	226	3	3
138+00.00	117	226	4	7
138+50.00	110	211	0	4
139+00.00	112	205	4	4
139+50.00	112	207	7	11
140+00.00	121	216	0	7
140+50.00	112	216	1	1
141+00.00	112	208	3	4
141+50.00	116	212	1	4
142+00.00	113	212	3	4
142+50.00	112	209	3	6
143+00.00	108	205	5	8
143+50.00	102	195	8	13
144+00.00	102	190	11	19
144+50.00	102	190	11	21
145+00.00	94	182	16	26
145+50.00	82	163	22	36
146+00.00	67	138	23	43
146+50.00	58	116	23	44
147+00.00	63	113	20	41
147+50.00	68	122	18	36
148+00.00	69	127	19	35
148+50.00	73	132	20	36
149+00.00	76	138	17	35
149+50.00	83	147	16	31
150+00.00	94	164	16	30
150+50.00	96	177	14	28
151+00.00	99	182	4	17
151+50.00	102	187	4	8
152+00.00	95	182	6	10
152+50.00	98	178	5	10
153+00.00	97	180	3	8
153+50.00	99	182	7	10
154+00.00	100	185	12	18
154+50.00	99	184	14	24
155+00.00	96	180	12	24
155+50.00	98	180	13	23
156+00.00	99	182	13	24
156+50.00	99	184	14	25
157+00.00	100	185	11	24
157+50.00	101	186	11	21
158+00.00	103	189	12	22
158+50.00	106	194	14	25
159+00.00	104	195	14	27
159+50.00	101	190	14	26
160+00.00	98	185	17	29
160+50.00	99	183	19	34
161+00.00	102	186	20	37
161+50.00	101	188	12	30
162+00.00	100	187	15	25
162+50.00	101	187	14	27
163+00.00	103	190	15	27
163+50.00	101	189	14	27
164+00.00	104	191	13	25
164+50.00	105	194	11	22
165+00.00	109	198	9	18
165+50.00	109	202	6	14
TOTALS CARRIED TO TABLE 6	12473			1230

EARTHWORK QUANTITIES - TABLE 6				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
166+00.00	108	201	4	9
166+50.00	111	203	3	7
167+00.00	112	207	3	6
167+50.00	113	208	2	5
168+00.00	118	215	1	4
168+50.00	114	216	2	4
169+00.00	110	208	3	5
169+50.00	110	204	2	5
170+00.00	106	200	3	6
170+50.00	94	186	9	12
171+00.00	82	164	14	22
171+50.00	69	140	21	34
172+00.00	64	123	4	24
172+50.00	52	108	2	6
173+00.00	51	96	3	6
173+50.00	37	81	0	3
173+59.36	58	17	0	1
173+84.36	61	56	0	0
174+45.11	70	0	9	0
174+50.00	92	15	0	1
174+70.11	61	57	0	0
175+00.00	65	70	0	1
175+50.00	76	131	0	1
176+00.00	78	143	0	1
176+50.00	89	155	0	1
177+00.00	59	137	3	3
177+50.00	54	104	2	5
178+00.00	63	109	3	6
178+50.00	65	119	3	6
179+00.00	63	118	4	7
179+50.00	65	119	5	9
180+00.00	75	131	3	8
180+50.00	84	148	1	4
181+00.00	83	155	1	3
181+50.00	84	155	2	3
182+00.00	90	162	1	3
182+50.00	92	169	2	3
183+00.00	90	169	2	3
183+50.00	84	161	6	8
184+00.00	99	170	0	6
184+50.00	110	194	0	1
185+00.00	113	208	0	0
185+50.00	109	207	0	0
186+00.00	109	203	0	0
186+50.00	109	202	0	0
187+00.00	110	203	0	0
187+50.00	114	208	0	0
188+00.00	117	215	0	0
188+50.00	114	214	0	0
189+00.00	94	193	0	1
189+50.00	93	173	2	3
190+00.00	92	172	2	4
190+50.00	90	169	4	6
191+00.00	89	166	4	8
191+50.00	92	169	3	6
192+00.00	90	170	3	5
192+50.00	90	168	3	5
193+00.00	88	165	3	6
TOTALS THIS TABLE		8929		286
TOTALS FROM TABLE 4		12735		1087
TOTALS FROM TABLE 5		12473		1230
TOTALS CARRIED TO SHEET P.448		34137		2603

EARTHWORK SUBSUMMARY

FRA-70-00.00

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:47:18 PM USER: AMerrill
O:\2023\007111\C. Design\116949_FRA-70-0.00\400-Engineering\Roadway\Sheets\116949_GQ001.dgn

DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.446 TOTAL 577

EARTHWORK QUANTITIES - TABLE 7				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
193+50.00	87	162	5	8
194+00.00	85	159	5	10
194+50.00	84	157	6	11
195+00.00	85	158	5	11
195+50.00	87	160	3	8
196+00.00	87	161	2	5
196+50.00	92	166	1	3
197+00.00	102	180	0	1
197+50.00	109	196	0	1
198+00.00	110	203	0	1
198+50.00	109	203	0	1
199+00.00	104	197	1	2
199+50.00	107	196	1	2
200+00.00	105	197	1	2
200+50.00	93	184	4	5
201+00.00	100	179	0	4
201+50.00	104	189	0	0
202+00.00	106	195	0	0
202+50.00	102	193	0	0
203+00.00	96	184	0	0
203+50.00	94	177	14	14
204+00.00	107	186	0	14
204+50.00	107	198	1	2
205+00.00	107	199	1	2
205+50.00	113	204	0	2
206+00.00	109	206	1	2
206+50.00	109	203	1	3
207+00.00	113	206	1	2
207+50.00	111	208	1	2
208+00.00	109	205	2	3
208+50.00	109	203	2	4
209+00.00	107	201	2	5
209+50.00	108	200	2	4
210+00.00	110	203	1	3
210+50.00	115	210	1	2
211+00.00	118	217	1	2
211+50.00	117	219	1	2
212+00.00	116	217	1	2
212+50.00	123	221	2	3
213+00.00	117	222	5	7
213+50.00	121	221	0	6
214+00.00	123	226	0	1
214+50.00	118	223	1	1
215+00.00	116	217	2	3
215+50.00	121	220	2	4
216+00.00	115	219	2	4
216+50.00	94	194	4	7
217+00.00	78	159	5	9
217+50.00	71	138	3	8
218+00.00	69	130	1	5
218+50.00	92	150	0	2
219+00.00	89	169	0	0
219+50.00	71	148	0	1
220+00.00	63	124	253	235
220+04.51	91	13	0	22
220+29.51	86	82	0	0
221+16.43	68	0	0	0
221+41.43	82	70	0	0
221+50.00	105	30	0	0
222+00.00	103	194	0	1
222+50.00	96	185	0	1
223+00.00	107	188	1	2
223+50.00	81	175	5	7
224+00.00	60	131	5	10
224+50.00	65	116	3	8
225+00.00	79	134	1	4
225+50.00	98	165	1	2
226+00.00	106	189	1	2
TOTALS CARRIED TO TABLE 9		11934		500

EARTHWORK QUANTITIES - TABLE 8				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
226+50.00	101	192	2	4
227+00.00	99	186	2	5
227+50.00	97	182	3	6
228+00.00	97	181	5	8
228+50.00	97	181	4	9
229+00.00	95	179	4	8
229+50.00	90	172	6	10
230+00.00	90	168	7	13
230+50.00	89	167	7	14
231+00.00	88	165	7	14
231+50.00	85	161	7	14
232+00.00	82	155	7	13
232+50.00	86	156	5	12
233+00.00	91	164	2	7
233+50.00	92	170	2	4
234+00.00	95	174	1	3
234+50.00	99	180	1	2
235+00.00	107	191	0	1
235+50.00	153	241	0	1
236+00.00	146	277	1	1
236+50.00	126	252	3	4
237+00.00	127	235	3	6
237+50.00	105	215	3	6
238+00.00	91	182	4	6
238+50.00	83	162	6	9
239+00.00	80	151	6	11
239+50.00	87	155	3	9
240+00.00	80	155	3	7
240+50.00	83	151	2	5
241+00.00	90	161	2	4
241+50.00	85	163	4	6
242+00.00	79	153	6	10
242+50.00	83	151	6	12
243+00.00	86	157	6	12
243+50.00	83	157	7	12
244+00.00	83	155	7	13
244+50.00	83	155	6	13
245+00.00	88	159	4	10
245+50.00	91	167	2	6
246+00.00	92	170	2	4
246+50.00	87	166	2	4
247+00.00	86	161	5	7
247+50.00	89	163	5	9
248+00.00	93	168	3	8
248+50.00	94	174	4	8
249+00.00	95	176	3	7
249+50.00	99	180	3	6
250+00.00	100	185	3	6
250+50.00	100	185	3	6
251+00.00	112	196	1	4
251+50.00	126	221	0	2
252+00.00	127	235	2	3
252+50.00	109	219	2	4
253+00.00	107	201	3	5
253+50.00	109	201	4	7
254+00.00	117	210	3	7
254+50.00	123	223	1	5
255+00.00	132	237	1	3
255+50.00	132	245	2	3
256+00.00	138	251	3	5
256+50.00	134	252	8	11
257+00.00	133	248	13	19
257+50.00	136	250	11	23
258+00.00	147	262	10	20
258+50.00	150	275	10	19
259+00.00	154	282	9	18
259+50.00	158	289	10	18
260+00.00	155	290	13	21
TOTALS CARRIED TO TABLE 9		13193		572

EARTHWORK QUANTITIES - TABLE 9				
IR-70				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
260+50.00	164	295	12	23
261+00.00	167	307	9	20
261+50.00	164	307	8	17
262+00.00	169	309	8	15
262+50.00	178	323	7	14
263+00.00	176	328	9	15
263+50.00	179	329	7	15
264+00.00	184	336	12	18
264+50.00	190	347	15	26
265+00.00	85	255	6	20
265+50.00	79	152	7	12
266+00.00	72	140	9	15
266+50.00	67	130	8	16
267+00.00	68	125	8	15
267+50.00	67	125	8	15
268+00.00	68	126	6	13
268+50.00	68	126	5	11
269+00.00	71	129	5	10
269+50.00	65	127	2	7
270+00.00	80	135	0	2
270+50.00	89	157	0	1
271+00.00	92	168	0	1
271+50.00	88	167	0	1
272+00.00	81	157	0	1
272+50.00	70	140	0	0
273+00.00	59	120	4	5
273+50.00	0	55	0	5
274+00.00	89	83	3	3
274+50.00	90	167	0	3
TOTALS THIS TABLE		5665		319
TOTALS FROM TABLE 7		11934		500
TOTALS FROM TABLE 8		13193		572
TOTALS CARRIED TO SHEET P.448		30792		1391

EARTHWORK SUBSUMMARY

FRA-70-00.00

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:47:19 PM USER: AMerrill
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DESIGN AGENCY
WIEBER&KAN STRUCTUREPOINT INC.

DESIGNER
ARM

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.447 TOTAL 577

EARTHWORK QUANTITIES - TABLE 10				
RAMP A				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
265+00.00	113		0	
265+50.00	90	189	15	14
266+00.00	64	143	18	31
266+50.00	30	88	0	18
267+00.00	30	57	0	1
267+50.00	32	58	0	1
268+00.00	32	60	0	1
268+50.00	31	59	0	1
269+00.00	30	57	0	1
269+50.00	28	54	0	1
270+00.00	27	52	30	28
270+50.00	28	51	0	28
271+00.00	28	52	0	1
271+50.00	29	53	0	1
272+00.00	32	56	0	1
272+50.00	32	60	0	1
273+00.00	30	58	0	0
273+50.00	28	54	0	0
274+00.00	27	52	0	0
274+50.00	27	51	0	0
275+00.00	28	52	0	0
275+50.00	31	56	0	0
276+00.00	32	59	0	0
276+50.00	31	58	0	0
277+00.00	31	57	0	0
277+50.00	42	68	0	0
278+00.00	87	120	1	2
278+17.73	25	37	0	1
TOTALS CARRIED TO TABLE 11	1811			132

EARTHWORK QUANTITIES - TABLE 11				
RAMP E				
STATION	CUT AREA	CUT VOLUME	FILL AREA	FILL VOLUME
	SF	CY	SF	CY
265+00.00	62		0	
265+50.00	133	181	0	0
266+00.00	123	238	0	0
266+50.00	108	214	0	0
267+00.00	89	183	0	1
267+50.00	72	150	0	1
268+00.00	76	138	0	0
268+50.00	64	131	0	0
269+00.00	57	113	0	0
269+50.00	56	106	0	0
270+00.00	46	95	0	0
270+50.00	32	73	0	0
271+00.00	28	56	0	1
271+50.00	24	48	0	1
272+00.00	22	43	0	1
272+50.00	25	44	0	1
273+00.00	27	49	0	0
273+50.00	31	55	0	0
274+00.00	33	60	0	0
274+50.00	33	62	0	0
275+00.00	31	60	0	0
275+50.00	31	59	0	0
276+00.00	28	55	0	1
276+50.00	31	55	0	1
277+00.00	27	54	0	1
277+50.00	39	61	0	1
277+90.44	36	56	0	0
TOTALS THIS TABLE	2439			10
TOTALS FROM TABLE 11	1811			132
TOTALS FROM SHEET P.445	39862			2253
TOTALS FROM SHEET P.446	34137			2603
TOTALS FROM SHEET P.447	30792			1391
TOTALS CARRIED TO GENERAL SUMMARY	109041			6389

EARTHWORK SUBSUMMARY

FRA-70-00.00

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:47:20 PM USER: AMerrill
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DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER ARM

REVIEWER AJL 08/23/24

PROJECT ID 116949

SHEET P.448 TOTAL 577

SUPERELEVATION TABLE
RAMP A
PI STA 267+62.60 — Dc = 8° 00' 00"

BASELINE		RIGHT SIDE					
STATION	PGL ELEVATION	WIDTH	CROSS-SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	REMARKS
264+77.24	936.50	16	0.039	0.63	284:1	935.87	GORE
265+00.00	936.23	16	0.059	0.94	284:1	935.29	
265+01.33	936.21	16	0.060	0.96	284:1	935.25	SC & FS
265+25.00	935.93	16	0.060	0.96		934.97	
265+50.00	935.63	16	0.060	0.96		934.67	
265+75.00	935.35	16	0.060	0.96		934.39	
266+00.00	935.13	16	0.060	0.96		934.17	
266+25.00	934.95	16	0.060	0.96		933.99	
266+50.00	934.82	16	0.060	0.96		933.86	
266+75.00	934.74	16	0.060	0.96		933.78	
267+00.00	934.71	16	0.060	0.96		933.75	
267+25.00	934.73	16	0.060	0.96		933.77	
267+50.00	934.79	16	0.060	0.96		933.83	
267+75.00	934.89	16	0.060	0.96		933.93	
268+00.00	934.98	16	0.060	0.96		934.02	
268+25.00	935.07	16	0.060	0.96		934.11	
268+50.00	935.16	16	0.060	0.96		934.20	
265+00.00	936.23	16	0.059	0.94		935.29	
265+01.33	936.21	16	0.060	0.96		935.25	
265+25.00	935.93	16	0.060	0.96		934.97	
265+50.00	935.63	16	0.060	0.96		934.67	
265+75.00	935.35	16	0.060	0.96		934.39	
266+00.00	935.13	16	0.060	0.96		934.17	
266+25.00	934.95	16	0.060	0.96		933.99	
266+50.00	934.82	16	0.060	0.96		933.86	
266+75.00	934.74	16	0.060	0.96		933.78	
267+00.00	934.71	16	0.060	0.96		933.75	
267+25.00	934.73	16	0.060	0.96		933.77	
267+50.00	934.79	16	0.060	0.96		933.83	
267+75.00	934.89	16	0.060	0.96		933.93	
268+00.00	934.98	16	0.060	0.96		934.02	
268+25.00	935.07	16	0.060	0.96		934.11	
268+50.00	935.16	16	0.060	0.96		934.20	
268+75.00	935.25	16	0.060	0.96		934.29	
269+00.00	935.34	16	0.060	0.96		934.38	
269+25.00	935.43	16	0.060	0.96		934.47	
269+34.93	935.47	16	0.060	0.96		934.51	FS
269+50.00	935.52	16	0.058	0.93	213:1	934.59	
269+75.00	935.61	16	0.055	0.87	213:1	934.74	
270+00.00	935.70	16	0.051	0.82	213:1	934.88	
269+50.00	935.52	16	0.058	0.93	213:1	934.59	
269+75.00	935.61	16	0.055	0.87	213:1	934.74	
270+00.00	935.70	16	0.051	0.82	213:1	934.88	
270+25.00	935.80	16	0.048	0.77	213:1	935.03	
270+50.00	935.89	16	0.045	0.71	213:1	935.17	
270+75.00	935.98	16	0.041	0.66	213:1	935.32	
270+84.88	936.01	16	0.040	0.64	213:1	935.37	
271+00.00	936.07	16	0.029	0.46	213:1	935.61	
271+25.00	936.16	16	0.011	0.17	213:1	935.99	
271+39.41	936.21	16	0.000	0.00	213:1	936.21	LEVEL

SUPERELEVATION TABLE
RAMP A
PI STA 274+25.74 — Dc = 12° 00' 00"

BASELINE		RIGHT SIDE					
STATION	PGL ELEVATION	WIDTH	CROSS-SLOPE	ELEVATION CORRECTION	TRANSITION RATE	ELEVATION	REMARKS
271+39.41	936.21	16	0.000	0.00	213:1	936.21	LEVEL
271+50.00	936.25	16	-0.010	-0.16	172:1	936.41	
271+75.00	936.34	16	-0.034	-0.54	172:1	936.89	
272+00.00	936.44	16	-0.043	-0.68	172:1	937.12	
272+25.00	936.56	16	-0.046	-0.74	172:1	937.31	
272+50.00	936.73	16	-0.050	-0.80	172:1	937.54	
272+75.00	936.94	16	-0.054	-0.86	172:1	937.81	
272+96.27	937.15	16	-0.057	-0.91	172:1	938.07	FS
273+00.00	937.19	16	-0.057	-0.91		938.11	
273+25.00	937.49	16	-0.057	-0.91		938.40	
273+50.00	937.82	16	-0.057	-0.91		938.73	
273+75.00	938.15	16	-0.057	-0.91		939.07	
274+00.00	938.49	16	-0.057	-0.91		939.40	
274+25.00	938.83	16	-0.057	-0.91		939.74	
274+50.00	939.16	16	-0.057	-0.91		940.08	
274+75.00	939.50	16	-0.057	-0.91		940.41	
275+00.00	939.84	16	-0.057	-0.91		940.75	
275+25.00	940.18	16	-0.057	-0.91		941.09	
275+28.14	940.22	16	-0.057	-0.91		941.13	FS
275+50.00	940.51	16	-0.052	-0.84	161:1	941.35	
275+75.00	940.85	16	-0.047	-0.75	161:1	941.60	
276+00.00	941.19	16	-0.041	-0.66	161:1	941.85	
276+25.00	941.52	16	-0.036	-0.57	161:1	942.09	
276+50.00	941.78	16	-0.030	-0.49	161:1	942.27	
276+75.00	941.97	16	-0.025	-0.40	161:1	942.37	
277+00.00	942.08	16	-0.020	-0.31	161:1	942.40	
277+16.19	942.11	16	-0.016	-0.26	161:1	942.37	NC

SUPERELEVATION TABLE
RAMP A

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.449 | TOTAL 577

FRA-70-00.00

MODEL: Sheet_Survft PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:49:40 PM USER: AMerrill
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SUPERELEVATION TABLE
RAMP E
PI STA 268+63.84 — Dc = 8° 00' 00"

LEFT SIDE					BASELINE		
ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS-SLOPE	WIDTH	PGL ELEVATION	STATION	REMARKS
935.68		0.656	0.041	16	936.34	265+03.48	GORE
935.47		0.656	0.041	16	936.13	265+25.00	
935.25		0.656	0.041	16	935.90	265+50.00	
935.08		0.656	0.041	16	935.74	265+70.69	
935.03	213:1	0.676	0.042	16	935.70	265+75.00	
934.73	213:1	0.794	0.050	16	935.52	266+00.00	
934.45	213:1	0.911	0.057	16	935.36	266+25.00	
934.34	213:1	0.960	0.060	16	935.30	266+35.45	FS
934.27		0.960	0.060	16	935.23	266+50.00	
934.16		0.960	0.060	16	935.12	266+75.00	
934.06		0.960	0.060	16	935.02	267+00.00	
933.99		0.960	0.060	16	934.95	267+25.00	
933.91		0.960	0.060	16	934.87	267+50.00	
933.84		0.960	0.060	16	934.80	267+75.00	
933.76		0.960	0.060	16	934.72	268+00.00	
933.69		0.960	0.060	16	934.65	268+25.00	
933.61		0.960	0.060	16	934.57	268+50.00	
933.54		0.960	0.060	16	934.50	268+75.00	
933.46		0.960	0.060	16	934.42	269+00.00	
933.39		0.960	0.060	16	934.35	269+25.00	
933.31		0.960	0.060	16	934.27	269+50.00	
933.24		0.960	0.060	16	934.20	269+75.00	
933.16		0.960	0.060	16	934.12	270+00.00	
933.09		0.960	0.060	16	934.05	270+25.00	
933.01		0.960	0.060	16	933.97	270+50.00	
933.01		0.960	0.060	16	933.97	270+50.53	FS
933.07	185:1	0.828	0.052	16	933.90	270+75.00	
933.13	185:1	0.693	0.043	16	933.82	271+00.00	
933.22	185:1	0.557	0.035	16	933.78	271+25.00	
933.37	185:1	0.422	0.026	16	933.79	271+50.00	
933.58	185:1	0.287	0.018	16	933.87	271+75.00	
933.86	185:1	0.152	0.010	16	934.01	272+00.00	
934.19	185:1	0.017	0.001	16	934.21	272+25.00	
934.24	185:1	0.000	0.000	16	934.24	272+28.13	LEVEL

SUPERELEVATION TABLE
RAMP E
PI STA 275+85.36 — Dc = 12° 00' 00"

LEFT SIDE					BASELINE		
ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS-SLOPE	WIDTH	PGL ELEVATION	STATION	REMARKS
934.24	185:1	0.000	0.000	16	934.24	272+28.13	LEVEL
934.61	161:1	-0.136	-0.008	16	934.47	272+50.00	
935.08	161:1	-0.291	-0.018	16	934.79	272+75.00	
935.62	161:1	-0.446	-0.028	16	935.18	273+00.00	
936.19	161:1	-0.602	-0.038	16	935.59	273+25.00	
936.76	161:1	-0.757	-0.047	16	936.00	273+50.00	
937.33	161:1	-0.912	-0.057	16	936.42	273+74.96	FS
937.33		-0.912	-0.057	16	936.42	273+75.00	
937.75		-0.912	-0.057	16	936.83	274+00.00	
938.16		-0.912	-0.057	16	937.25	274+25.00	
938.57		-0.912	-0.057	16	937.66	274+50.00	
938.99		-0.912	-0.057	16	938.08	274+75.00	
939.40		-0.912	-0.057	16	938.49	275+00.00	
939.82		-0.912	-0.057	16	938.90	275+25.00	
940.23		-0.912	-0.057	16	939.32	275+50.00	
940.64		-0.912	-0.057	16	939.73	275+75.00	
941.06		-0.912	-0.057	16	940.15	276+00.00	
941.47		-0.912	-0.057	16	940.56	276+25.00	
941.89		-0.912	-0.057	16	940.97	276+50.00	
942.30		-0.912	-0.057	16	941.39	276+75.00	
942.67		-0.912	-0.057	16	941.76	277+00.00	
942.99		-0.912	-0.057	16	942.08	277+25.00	
943.05		-0.912	-0.057	16	942.14	277+29.95	FS
943.13	161:1	-0.787	-0.049	16	942.34	277+50.00	
943.18	161:1	-0.632	-0.039	16	942.55	277+75.00	
943.18	161:1	-0.536	-0.034	16	942.64	277+90.44	MATCH EXISTING

DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.
DESIGNER JMS
REVIEWER AJL 08/23/24
PROJECT ID 116949

FRA-70-00.00
MODEL: Sheet_SurvFt PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:49:41 PM USER: AMerrill
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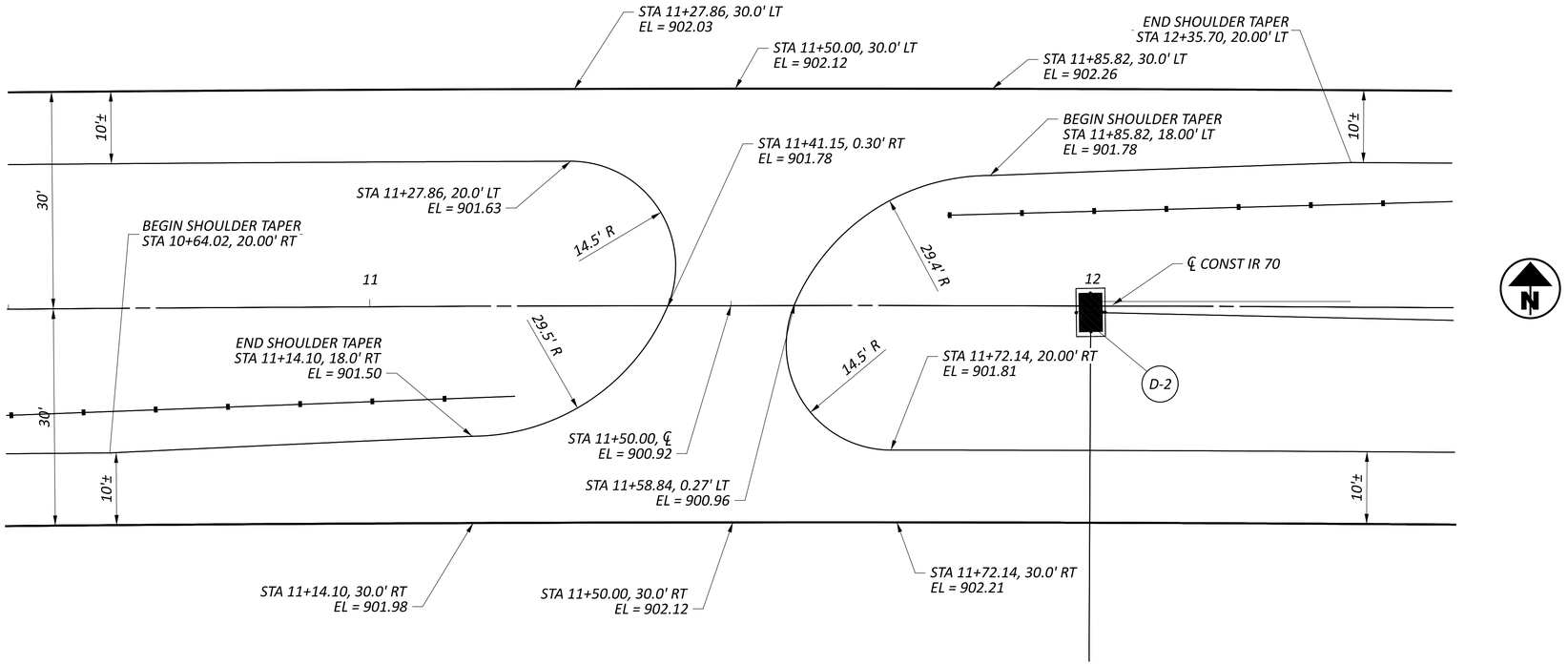
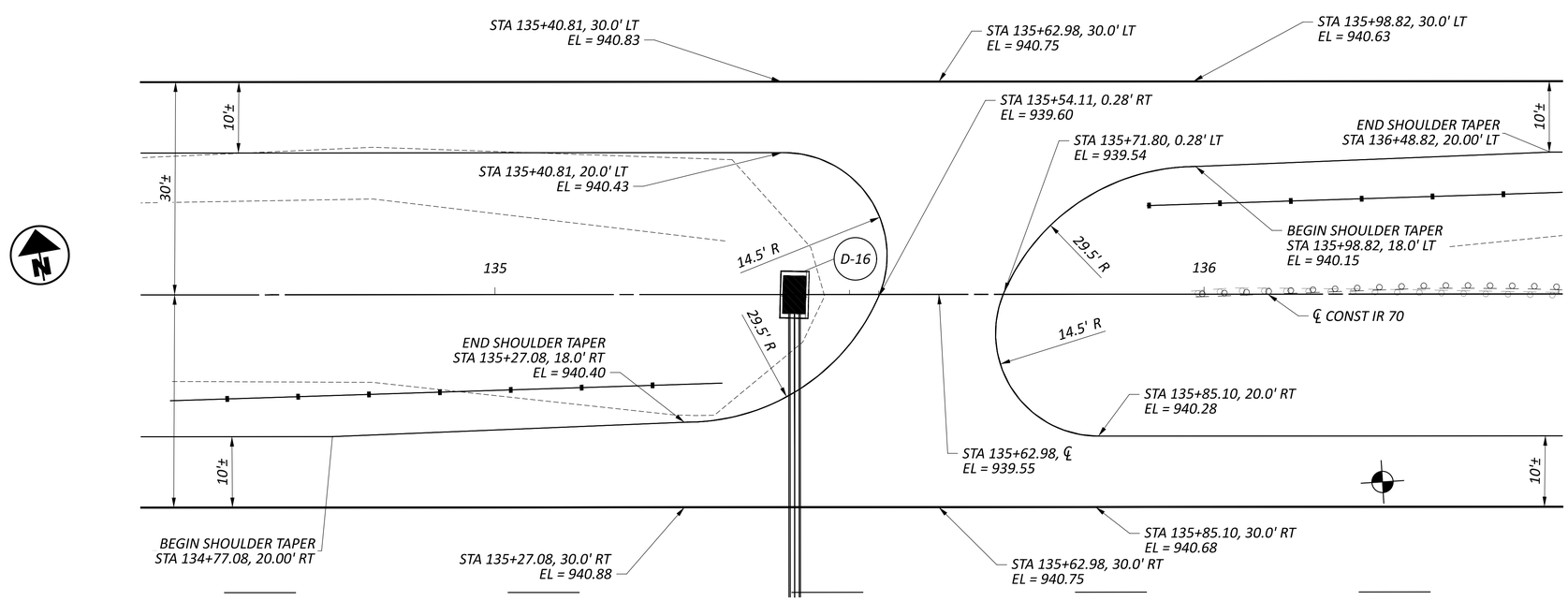
MEDIAN U-TURN - STA 11+50.00



MEDIAN U-TURN - STA 135+62.98



HORIZONTAL SCALE IN FEET
0 5 10 20

MEDIAN U-TURN DETAIL
STA 11+50.00 AND STA 135+62.98

DESIGN AGENCY
WHITMAN STRUCTUREPOINT INC.

DESIGNER	JJD
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.451
TOTAL	577

FRA-70-00.00

MODEL: Median U-Turn Detail [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:49:50 PM USER: AMerrill
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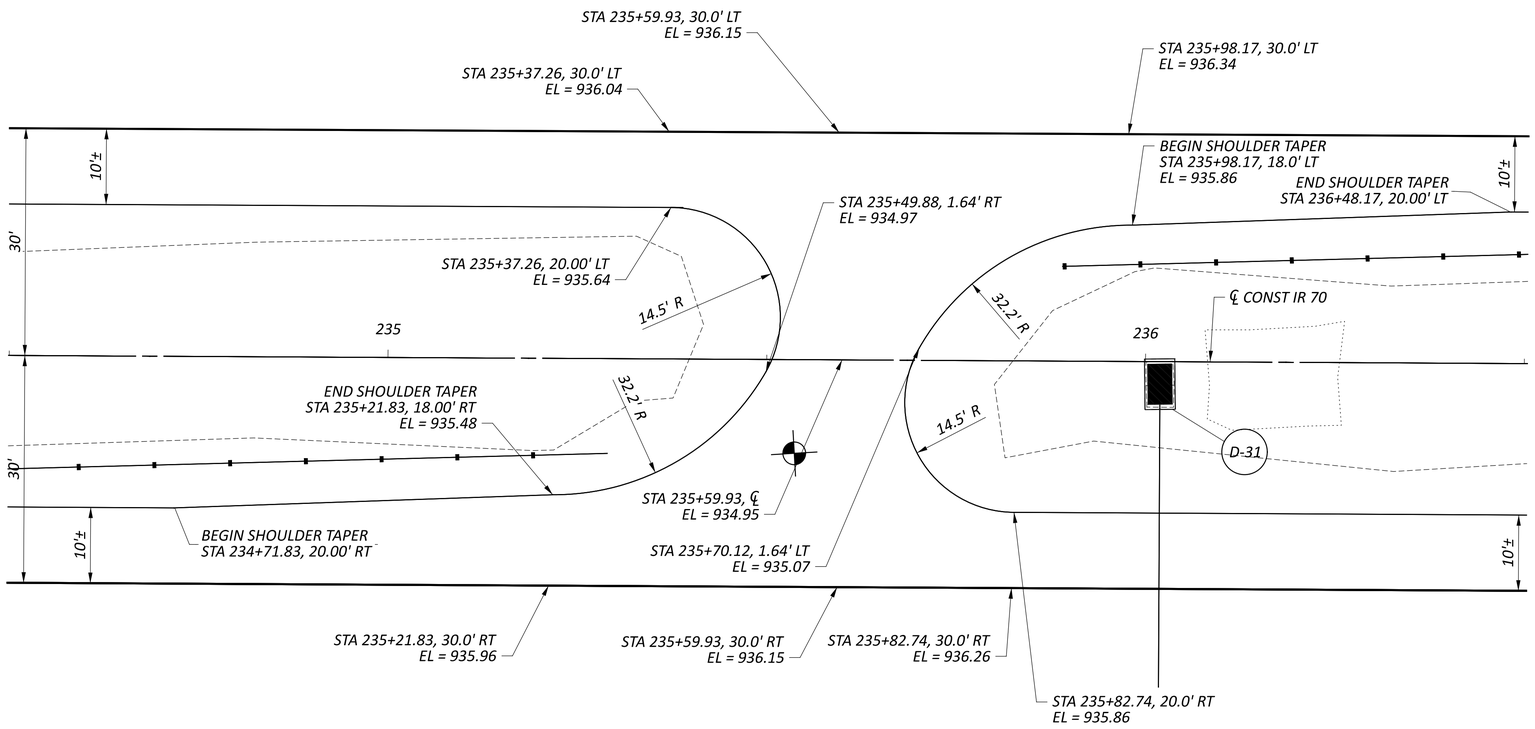
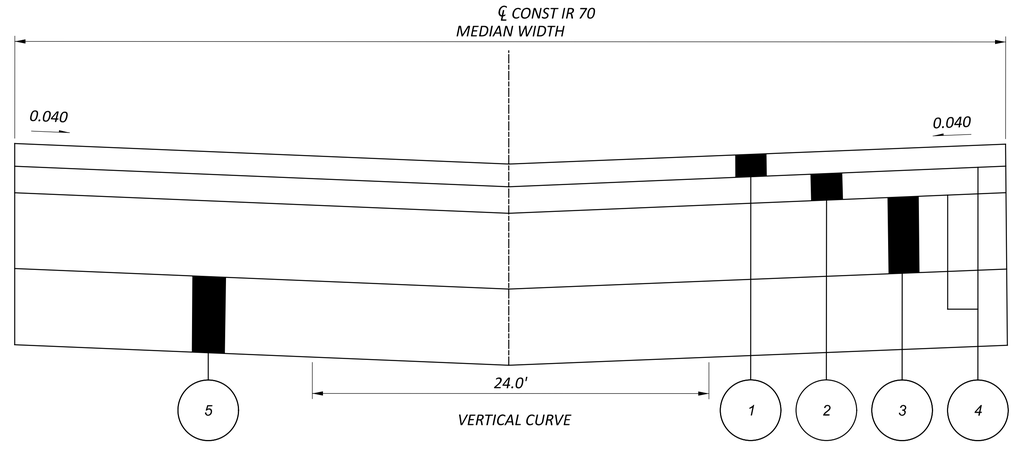
MEDIAN U-TURN - STA 235+59.93



1	ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)
2	ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (447)
3	ITEM 302 - 5" ASPHALT CONCRETE BASE, (449)
4	ITEM 407 - NON-TRACKING TACK COAT
5	ITEM 304 - 6" AGGREGATE BASE



HORIZONTAL SCALE IN FEET
0 5 10 20

MEDIAN U-TURN DETAIL
STA 235+59.93

DESIGN AGENCY
WILBUR SMITH STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.452 TOTAL 577

FRA-70-00.00

MODEL: Median U-Turn Detail 2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:49:53 PM USER: AMerrill
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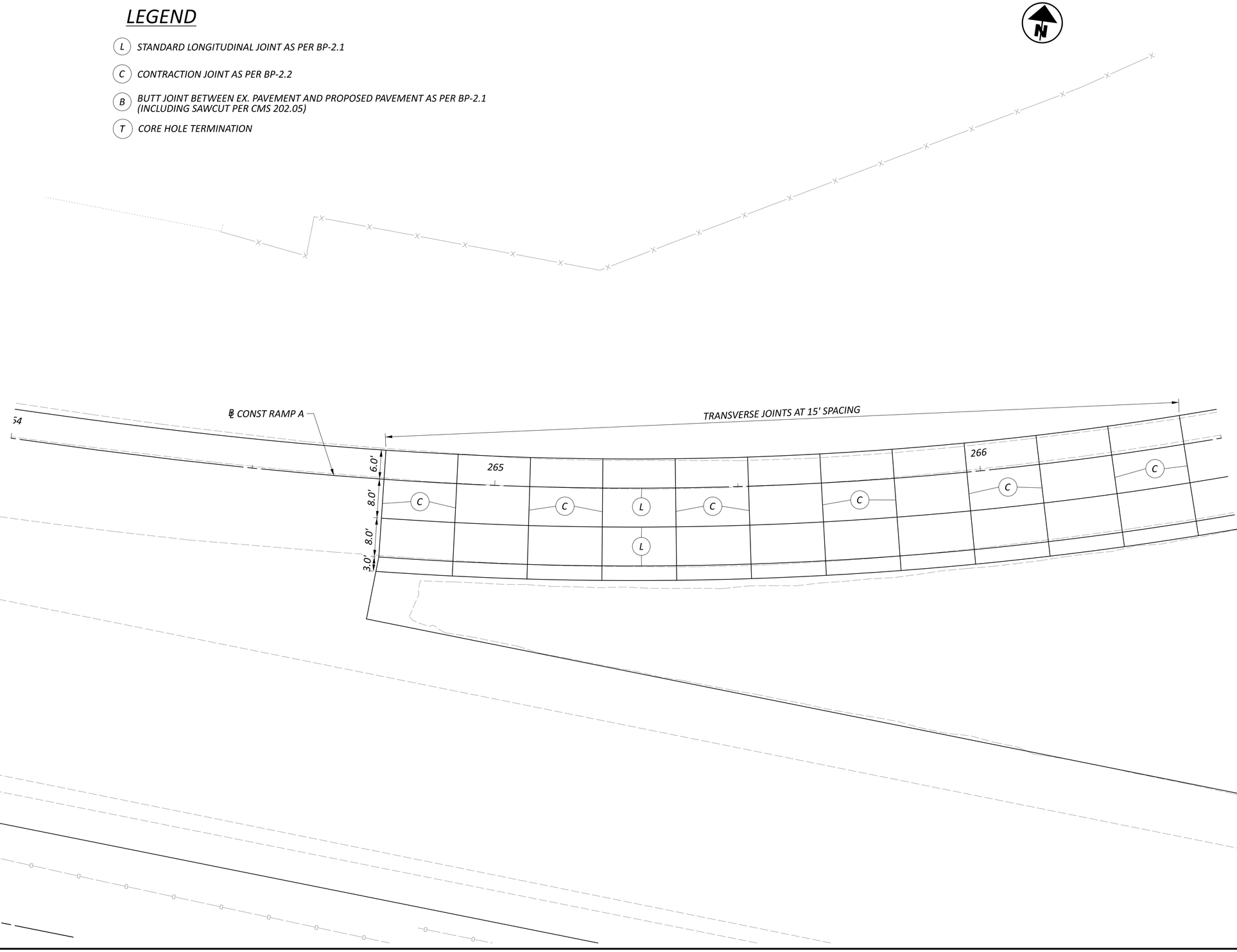
LEGEND

- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (C) CONTRACTION JOINT AS PER BP-2.2
- (B) BUTT JOINT BETWEEN EX. PAVEMENT AND PROPOSED PAVEMENT AS PER BP-2.1 (INCLUDING SAWCUT PER CMS 202.05)
- (T) CORE HOLE TERMINATION



HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT JOINT DETAIL RAMP A

DESIGN AGENCY
WSP USA STRUCTUREPOINT INC.

DESIGNER	ARM
REVIEWER	AJL 08/23/24
PROJECT ID	116949
SHEET	P.453
TOTAL	577

FRA-70-0.00

MODEL: BLP_R070A - Plan 4 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:49:56 PM USER: AMerrill
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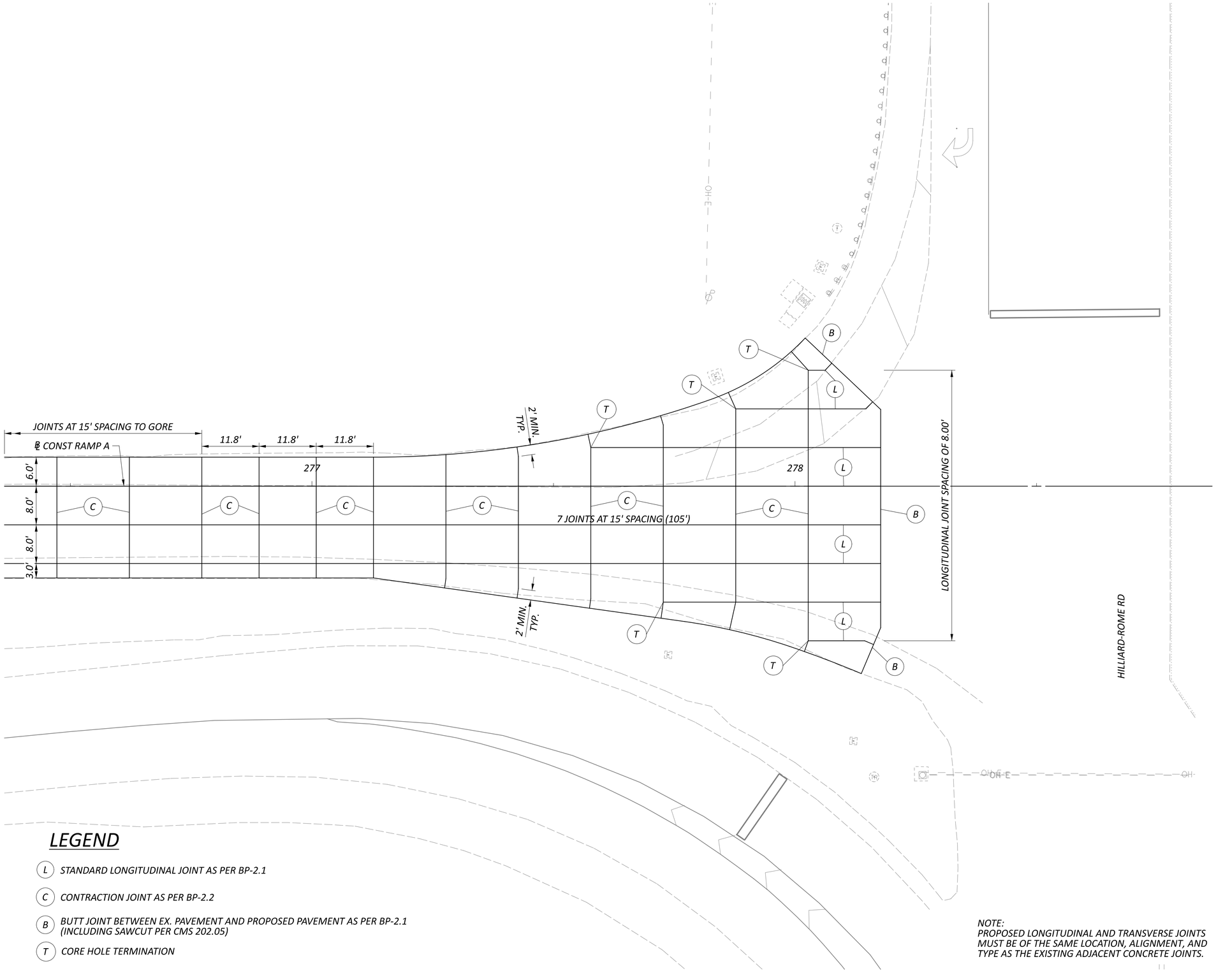

LEGEND

- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (C) CONTRACTION JOINT AS PER BP-2.2
- (B) BUTT JOINT BETWEEN EX. PAVEMENT AND PROPOSED PAVEMENT AS PER BP-2.1 (INCLUDING SAWCUT PER CMS 202.05)
- (T) CORE HOLE TERMINATION

NOTE:
PROPOSED LONGITUDINAL AND TRANSVERSE JOINTS MUST BE OF THE SAME LOCATION, ALIGNMENT, AND TYPE AS THE EXISTING ADJACENT CONCRETE JOINTS.

HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT JOINT DETAIL
RAMP A

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.454 TOTAL 577

FRA-70-00.00

MODEL: BLP_R070A - Plan 1 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:49:59 PM USER: AMerrill
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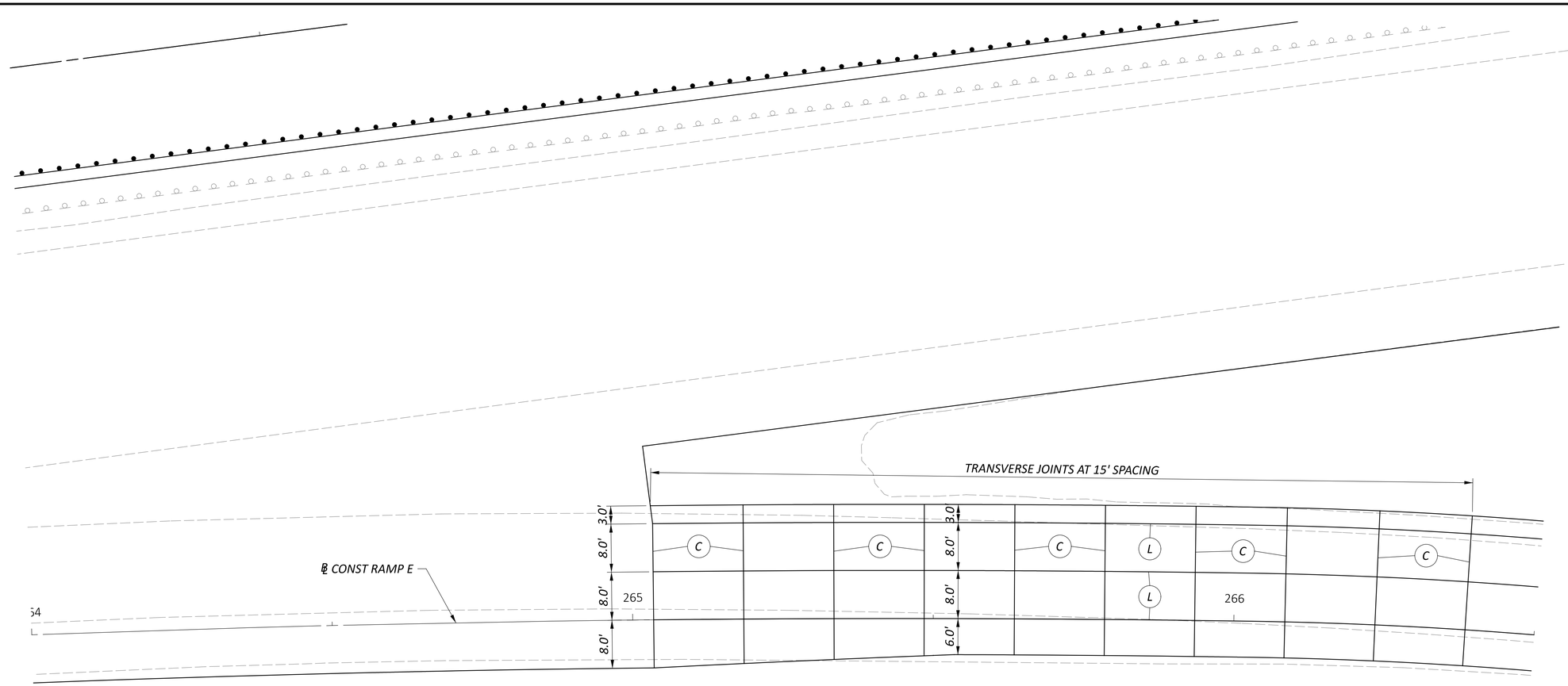

LEGEND

- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (C) CONTRACTION JOINT AS PER BP-2.2
- (B) BUTT JOINT BETWEEN EX. PAVEMENT AND PROPOSED PAVEMENT AS PER BP-2.1 (INCLUDING SAWCUT PER CMS 202.05)
- (T) CORE HOLE TERMINATION

HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT JOINT DETAIL RAMP E

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER ARM
REVIEWER AJL 08/23/24
PROJECT ID 116949
SHEET P.455 TOTAL 577

FRA-70-0.00

MODEL: CLX_R070E-2 - Plan 3 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:50:00 PM USER: AMerrill
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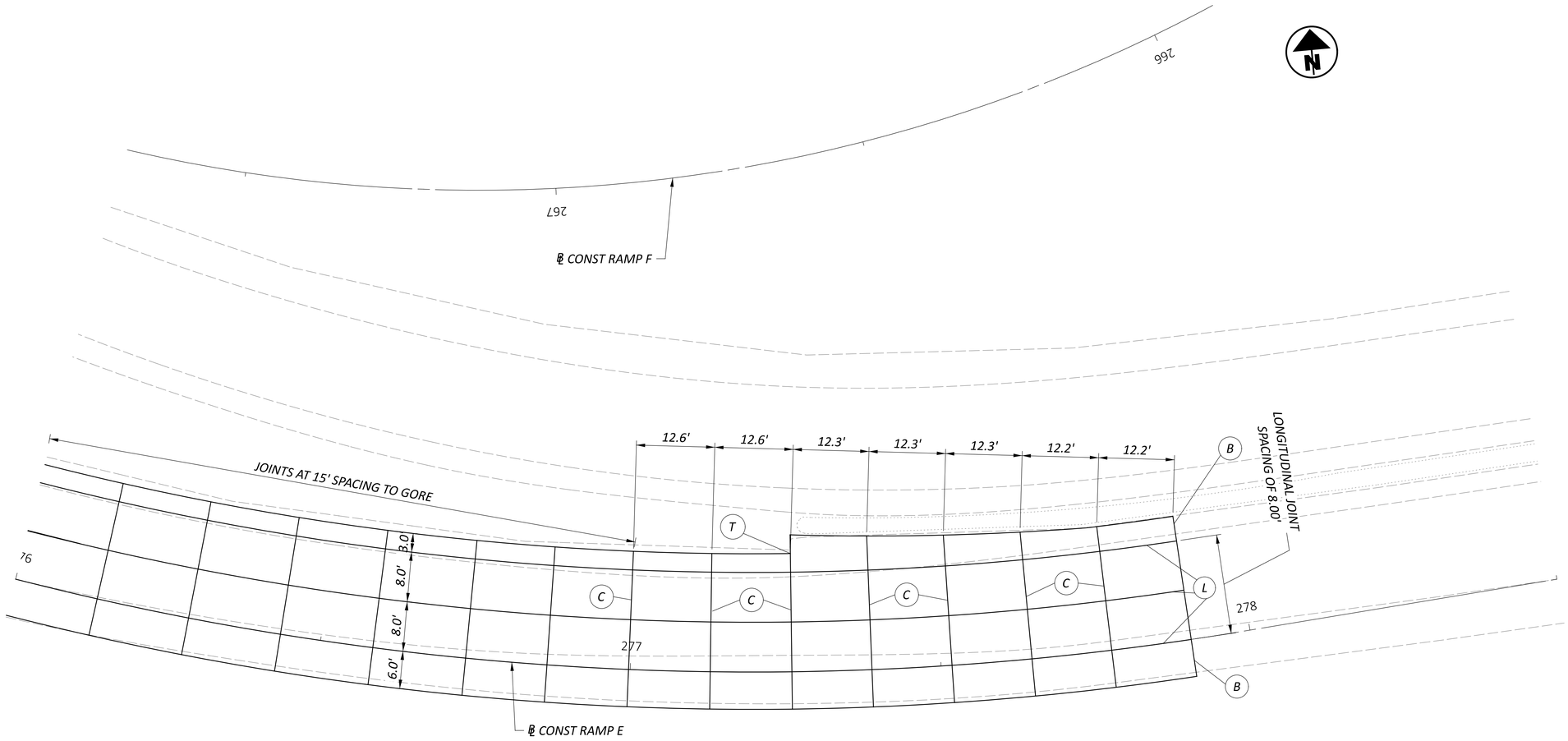

LEGEND

- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (C) CONTRACTION JOINT AS PER BP-2.2
- (B) BUTT JOINT BETWEEN EX. PAVEMENT AND PROPOSED PAVEMENT AS PER BP-2.1 (INCLUDING SAWCUT PER CMS 202.05)
- (T) CORE HOLE TERMINATION

NOTE:
PROPOSED LONGITUDINAL AND TRANSVERSE JOINTS MUST BE OF THE SAME LOCATION, ALIGNMENT, AND TYPE AS THE EXISTING ADJACENT CONCRETE JOINTS.

HORIZONTAL SCALE IN FEET
0 5 10 20

PAVEMENT JOINT DETAIL RAMP E

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JJD

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.456 TOTAL 577

FRA-70-00.00

MODEL: CLX_R070E - Plan 2 PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:50:03 PM USER: AMerrill
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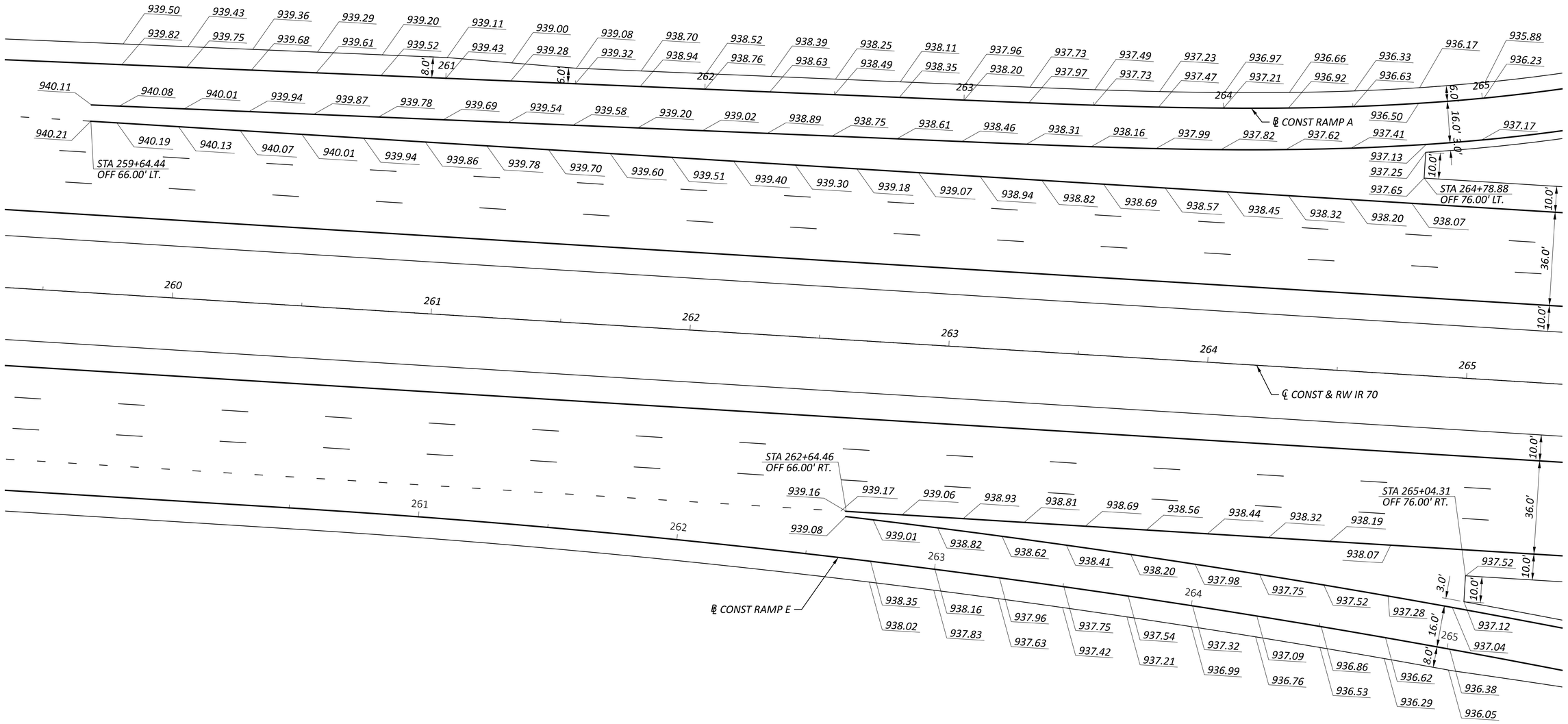

HORIZONTAL SCALE IN FEET
0 10 20 40

GORE ELEVATION DETAIL RAMP A & RAMP E

FRA-70-00.00

MODEL: RAMP A GORE PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:50:06 PM USER: AMerrill
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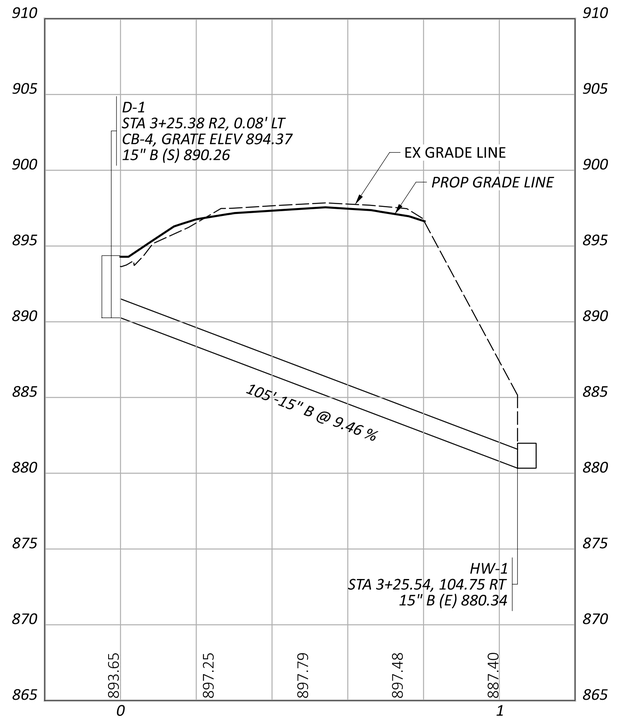
DESIGN AGENCY
STRUCTUREPOINT LLC

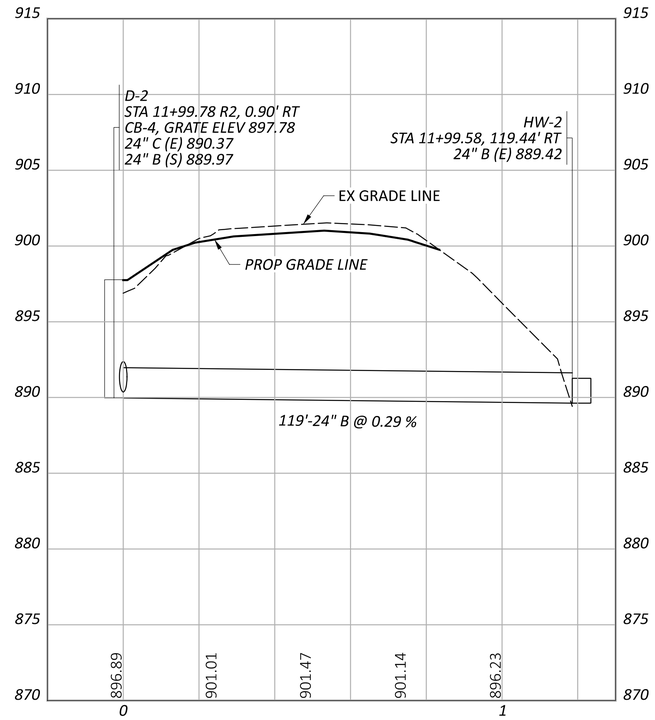
DESIGNER
ARM

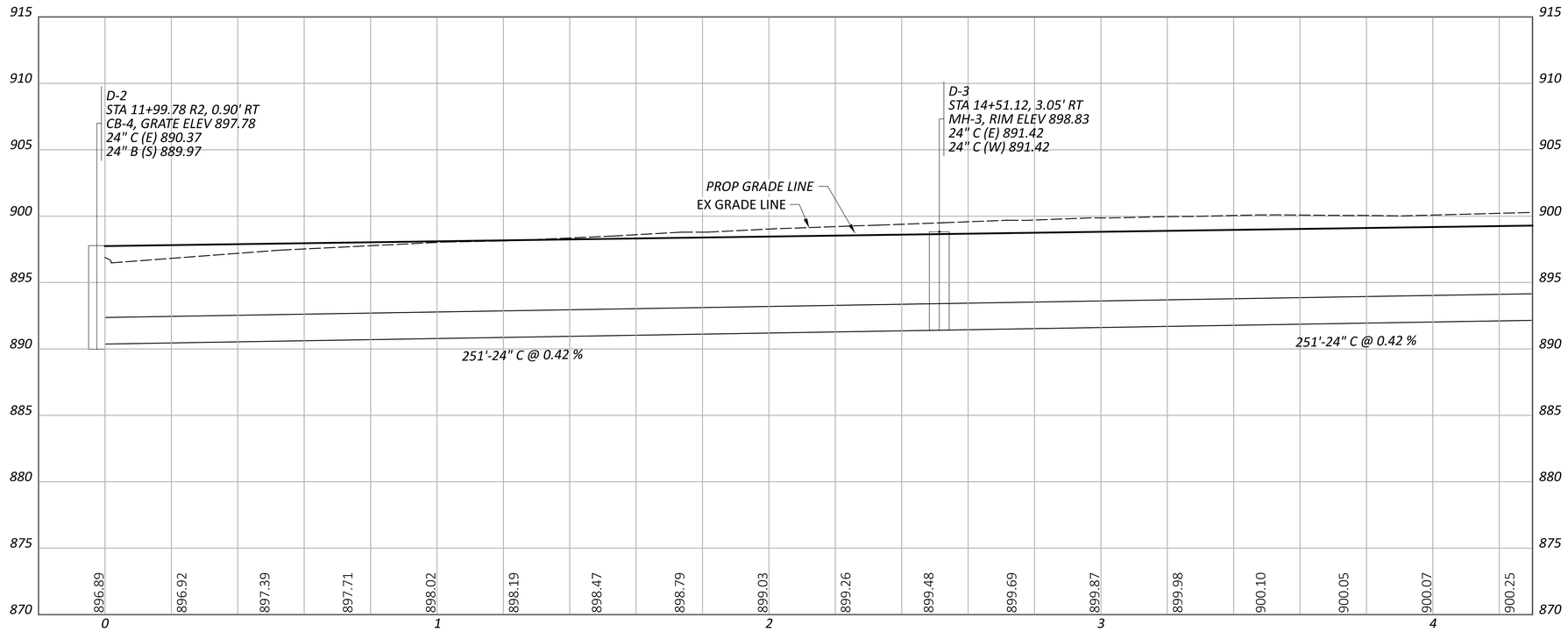
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.457 | TOTAL 577







STORM SEWER PROFILES

FRA-70-00.00

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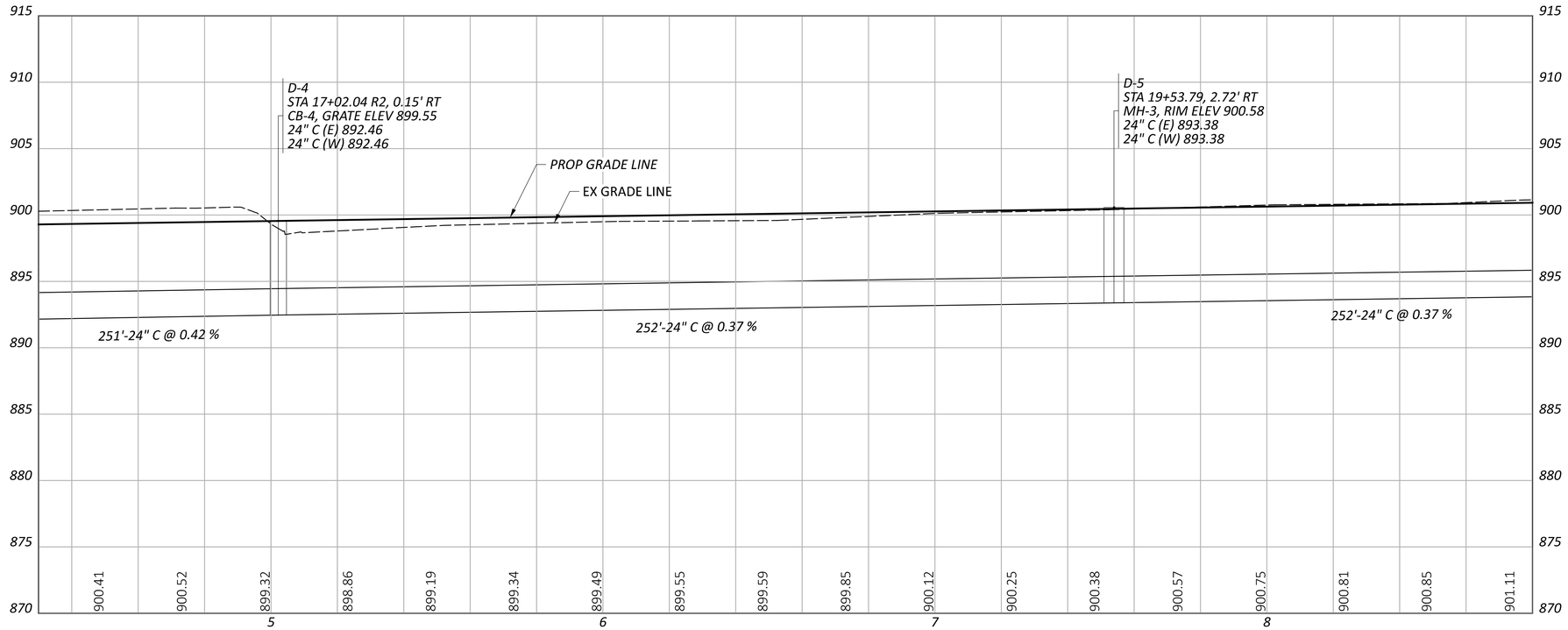
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

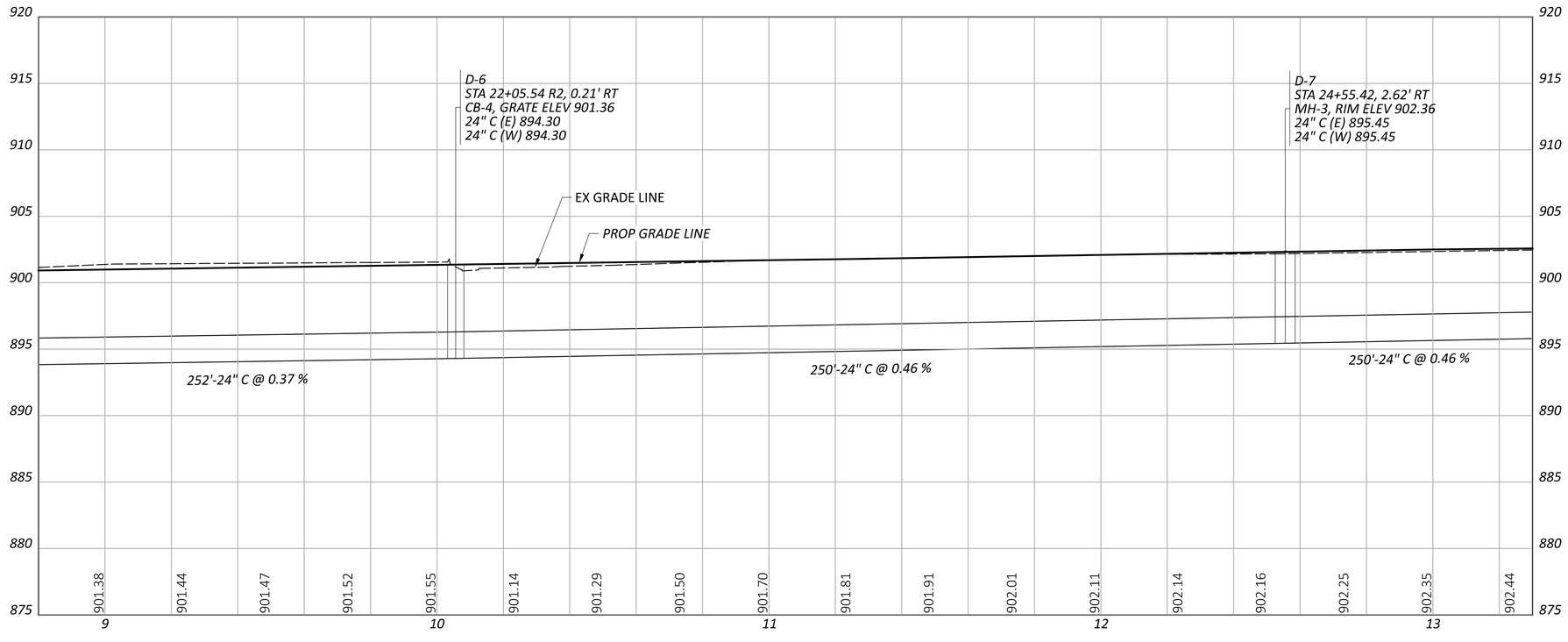
DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.458 | TOTAL 577





STORM SEWER PROFILES

FRA-70-00.00

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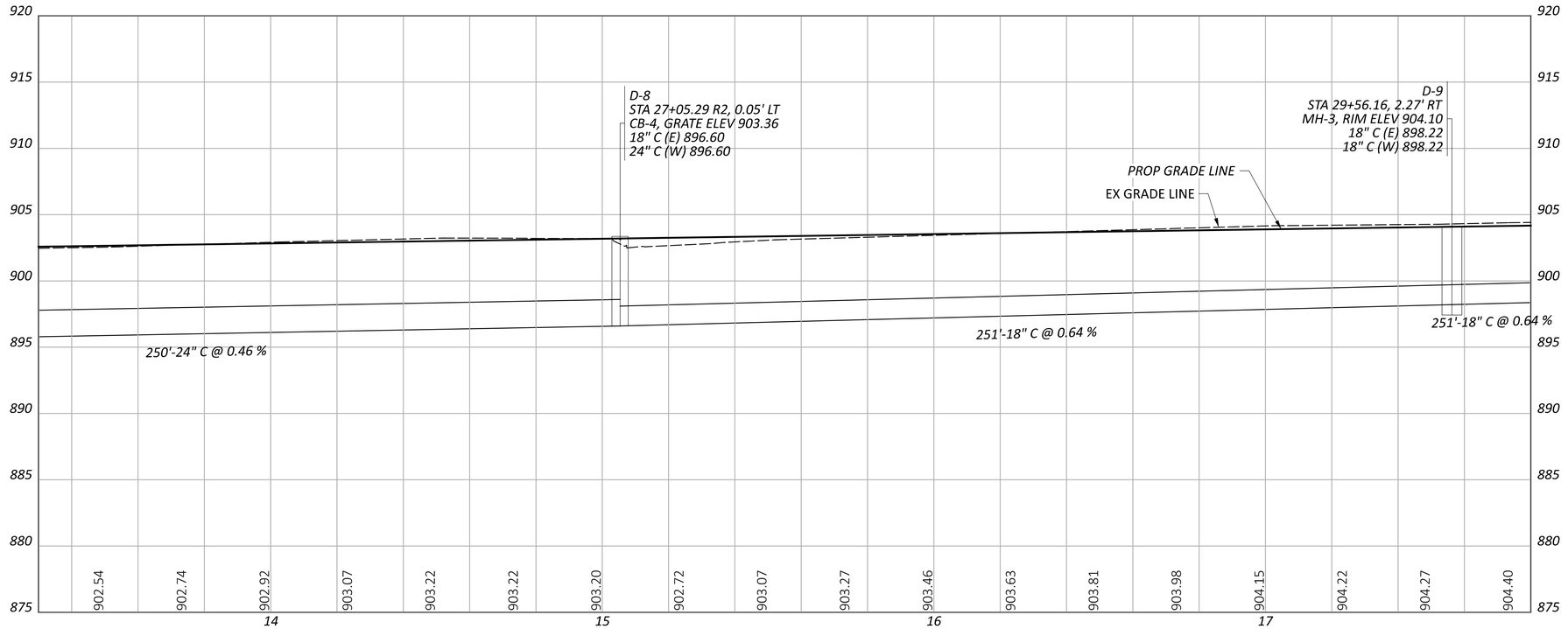
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

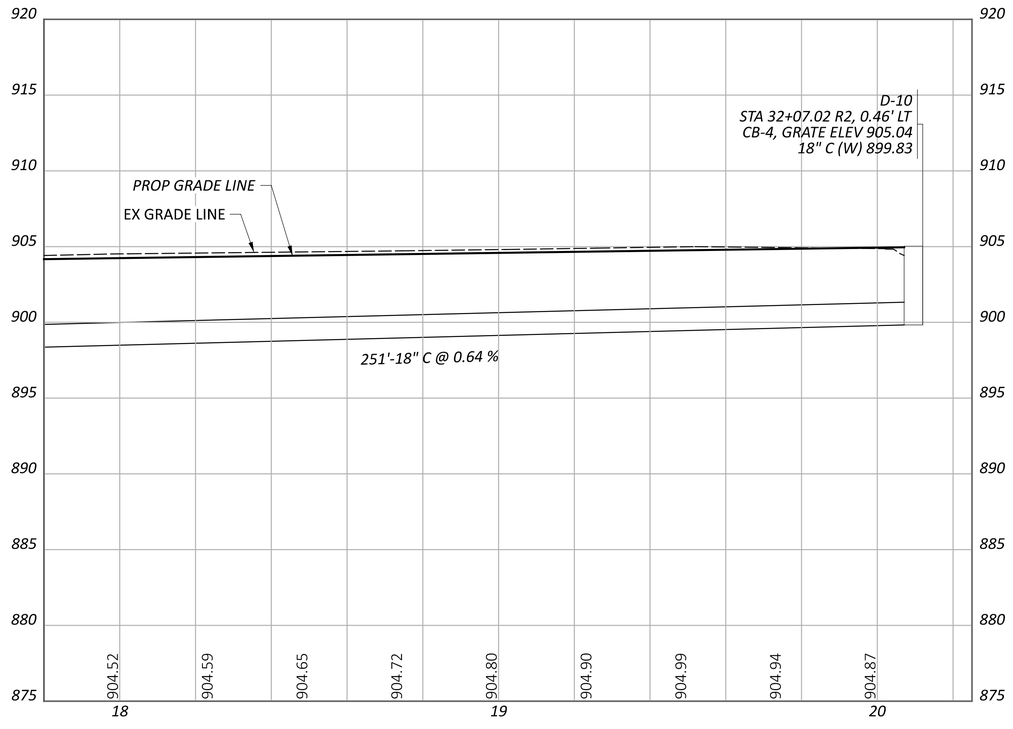
DESIGNER
DMS

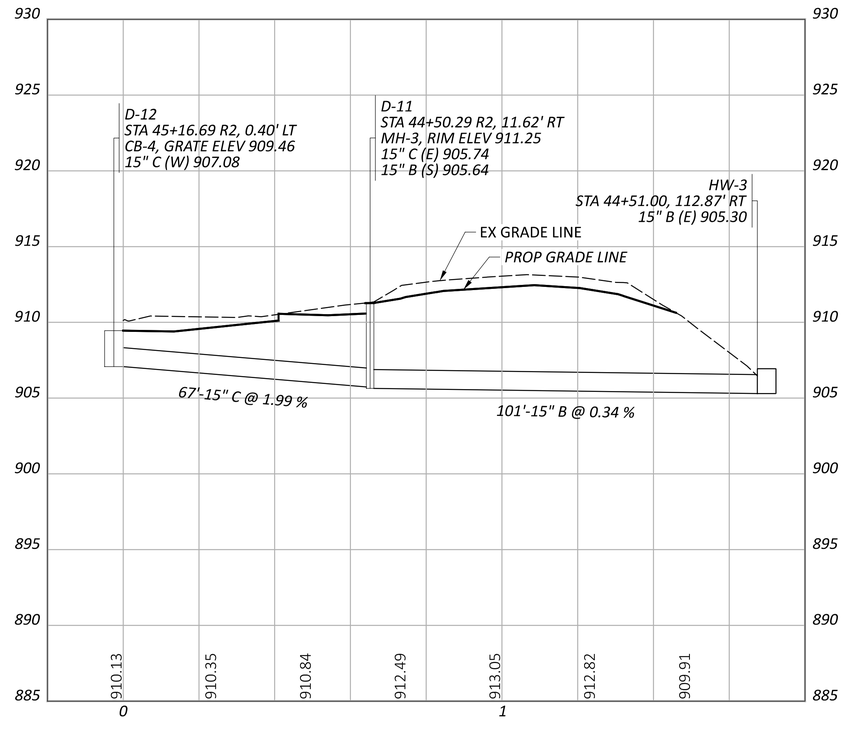
REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.459 | TOTAL 577







STORM SEWER PROFILES

FRA-70-00.00

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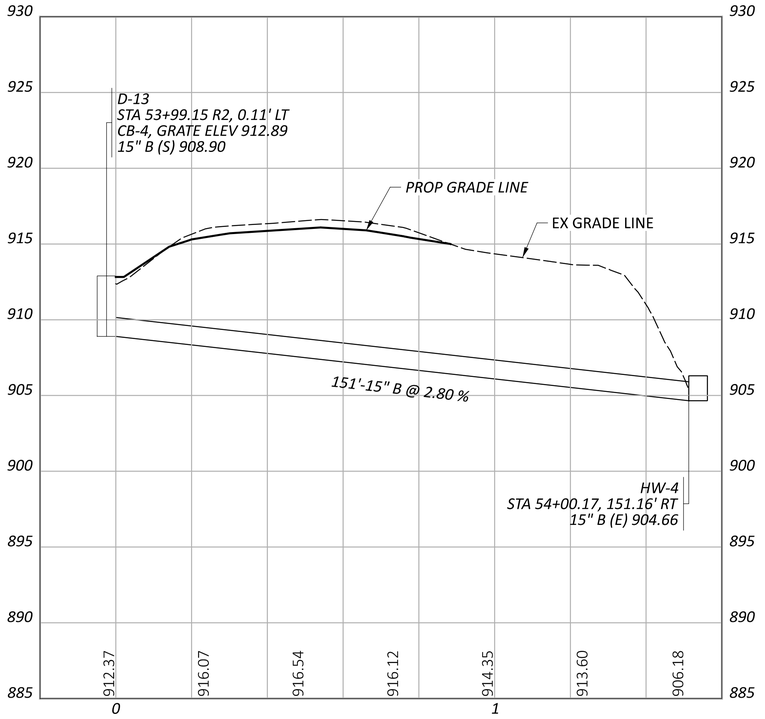
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

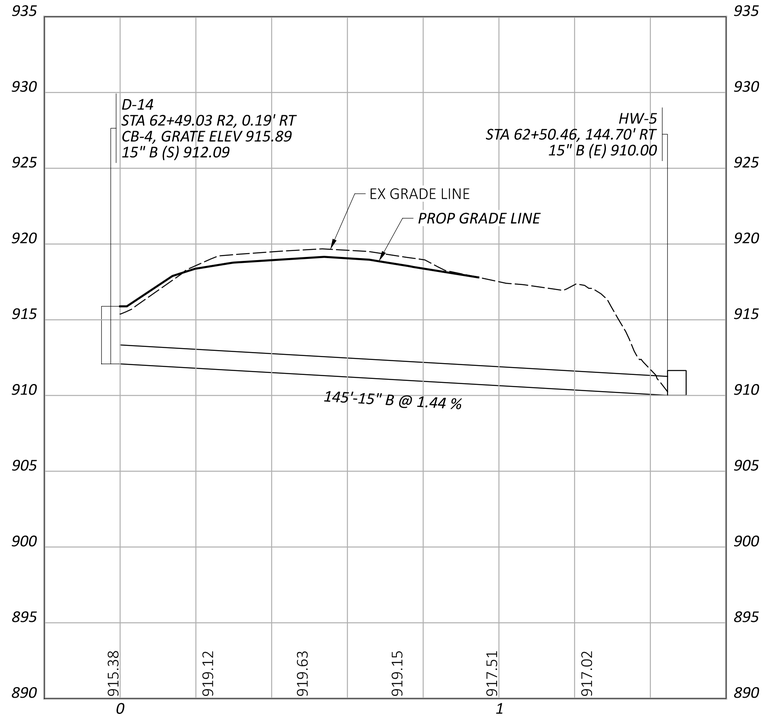
DESIGNER
DMS

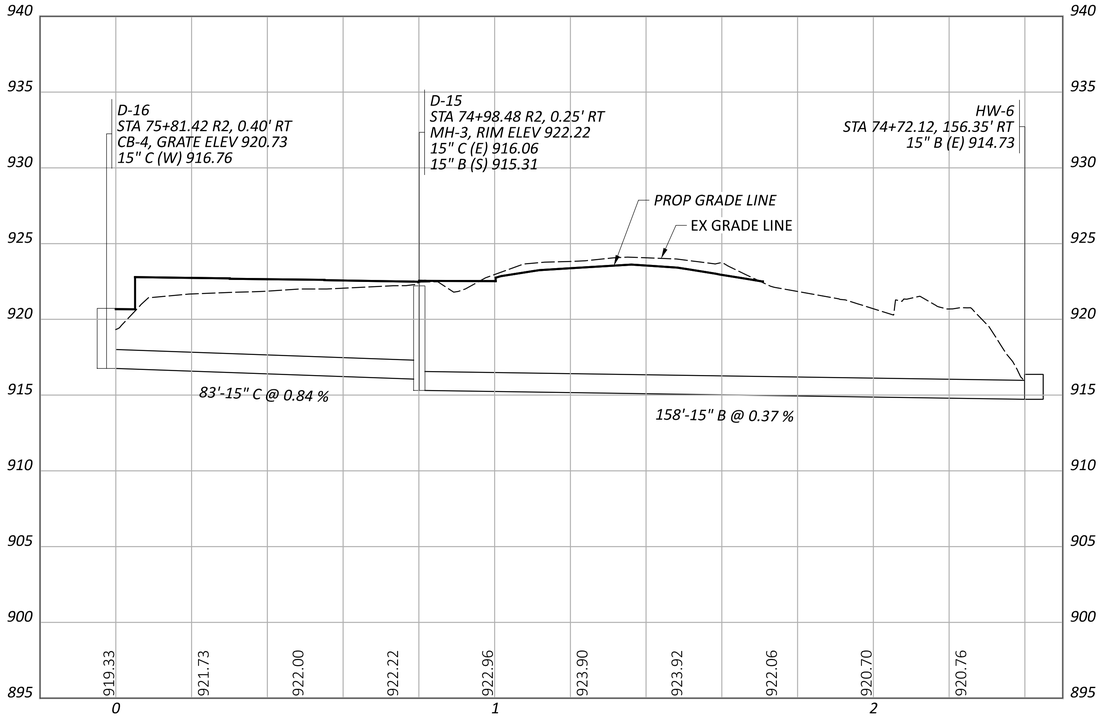
REVIEWER
AJL 08/23/24

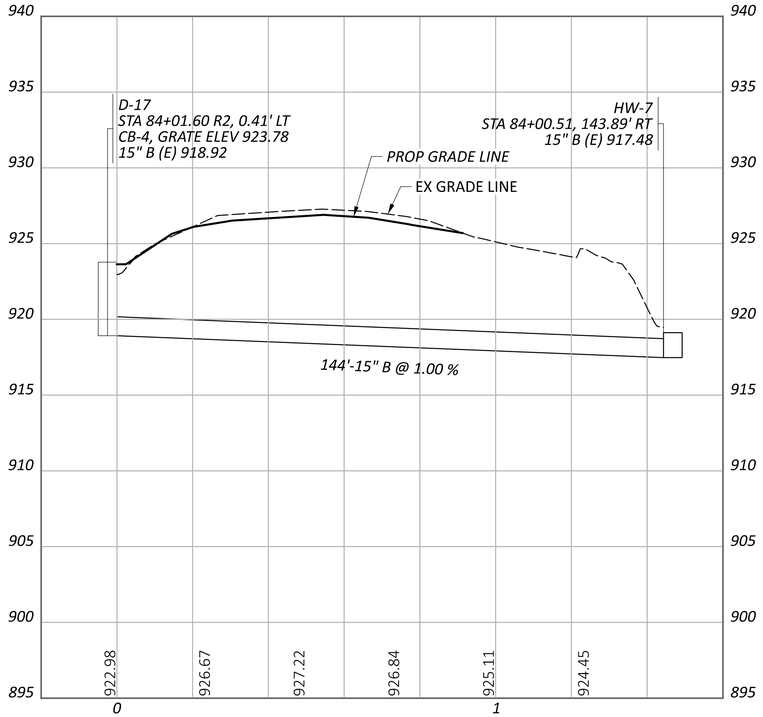
PROJECT ID
116949

SHEET P.460 | TOTAL 577









STORM SEWER PROFILES

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.461 | TOTAL 577

FRA-70-00.00

MODEL: Profile Sheet 4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:50:12 PM USER: AMerrill
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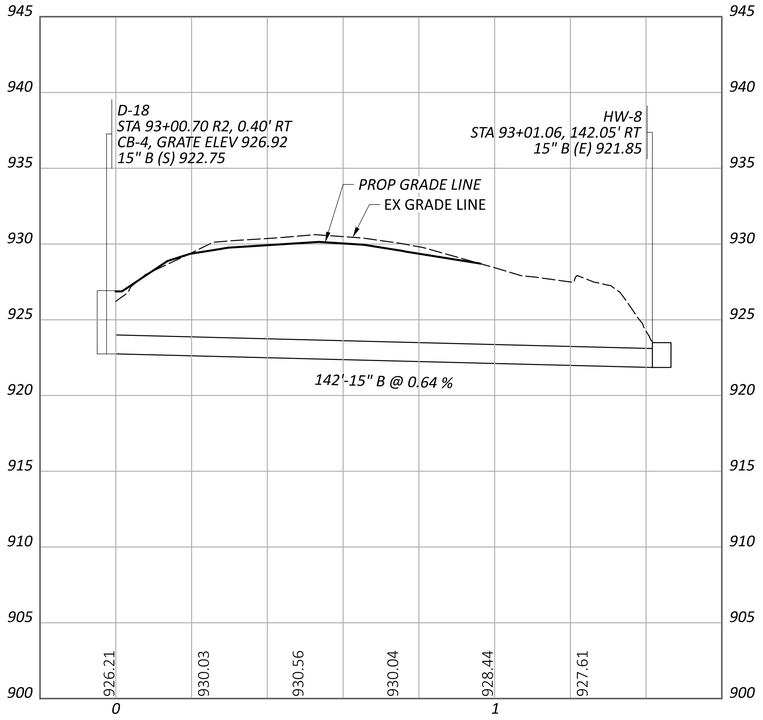

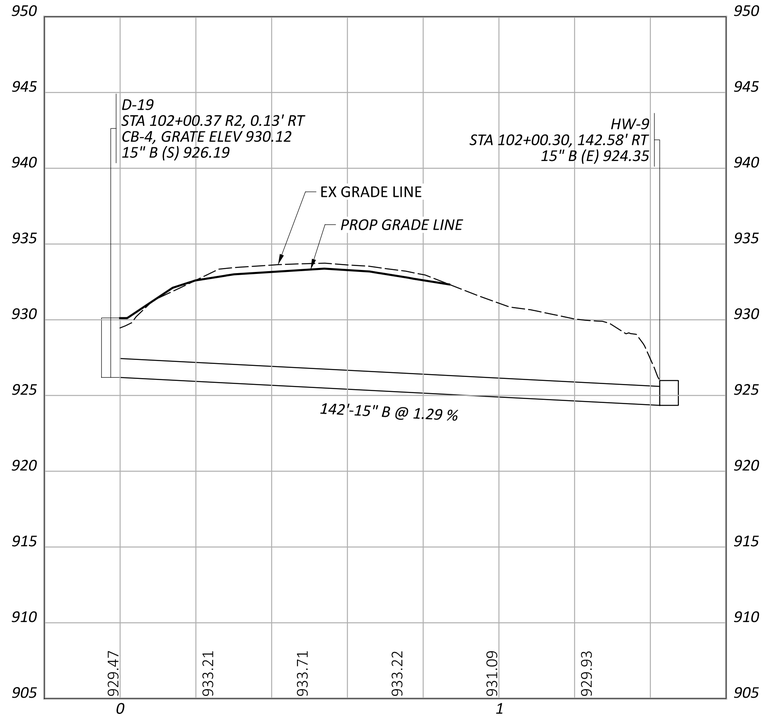

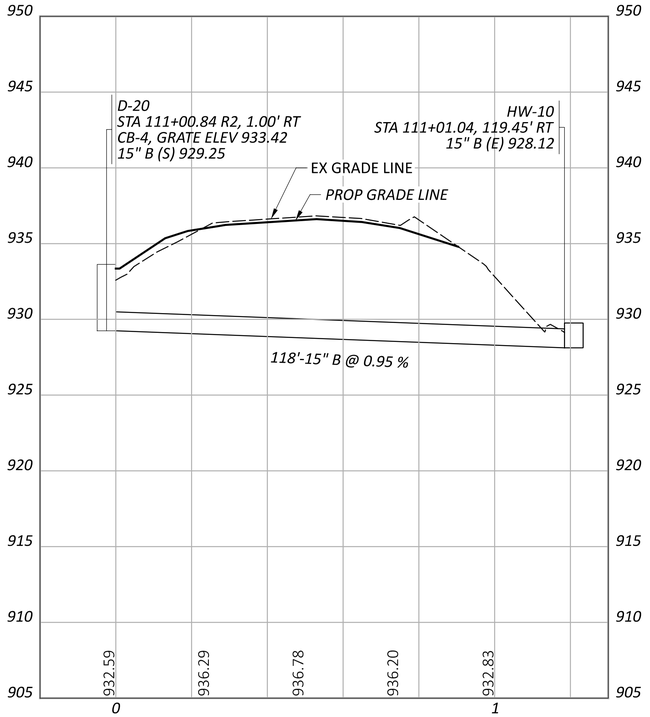

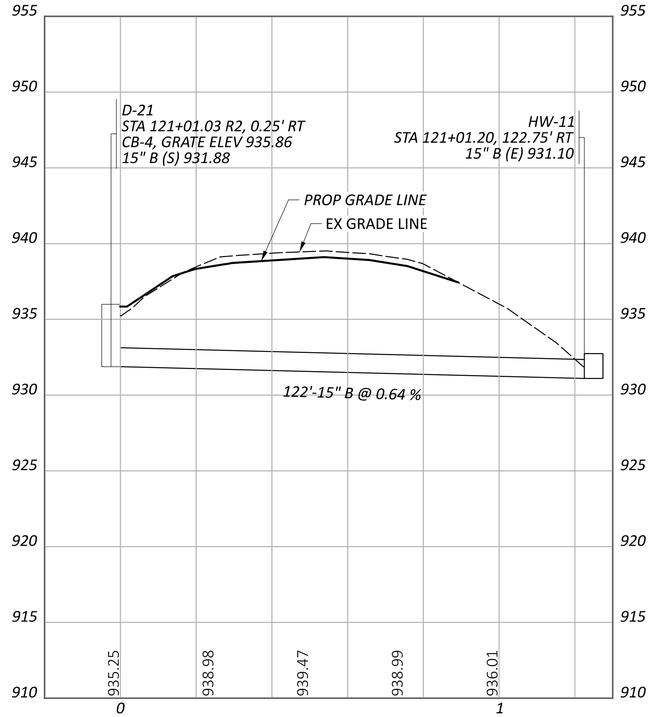

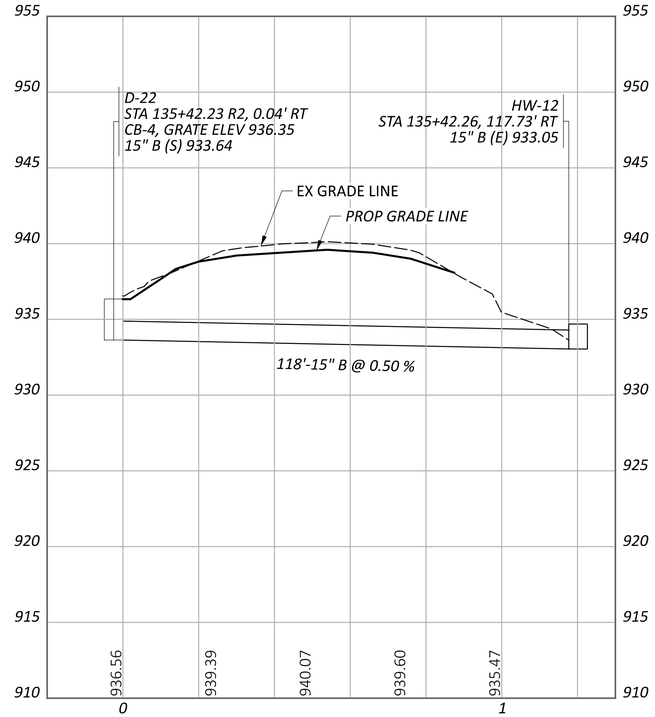

STORM SEWER PROFILES

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.462 | TOTAL 577

FRA-70-00.00

MODEL: Profile Sheet 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:50:13 PM USER: AMerrill
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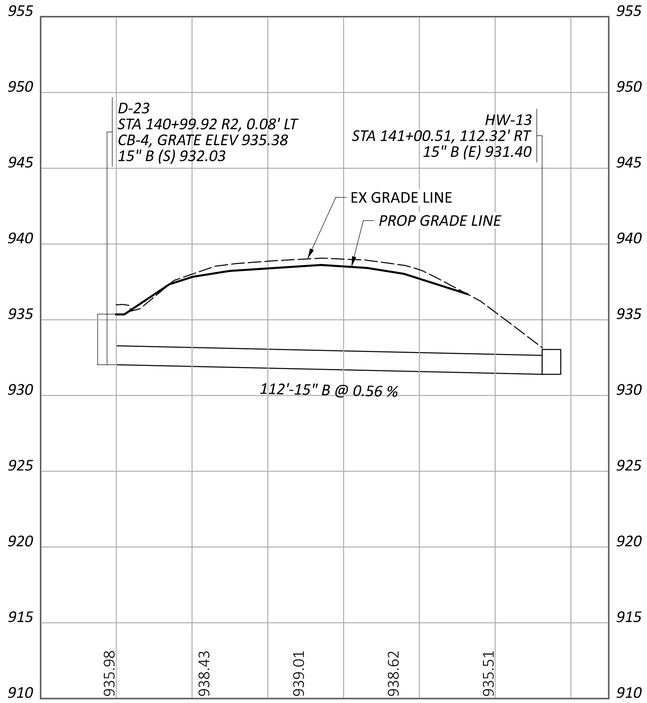

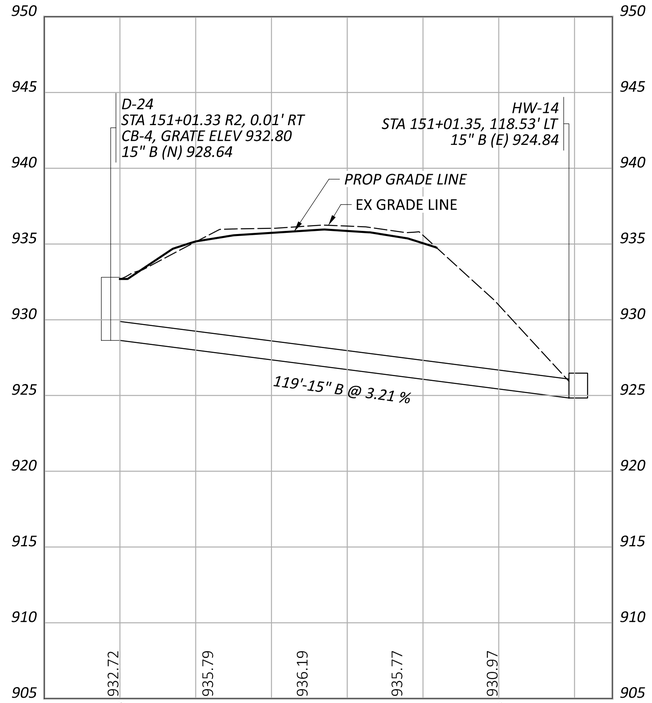

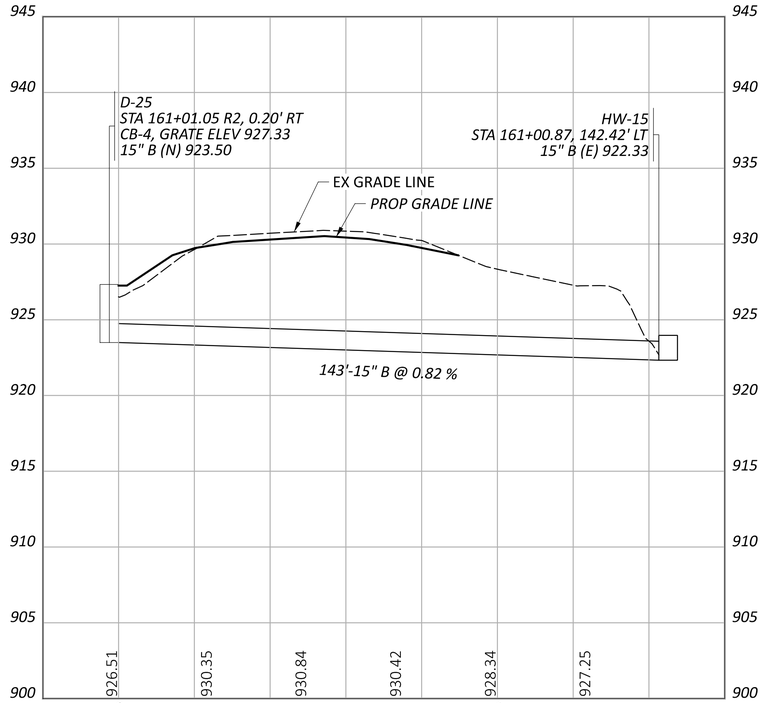

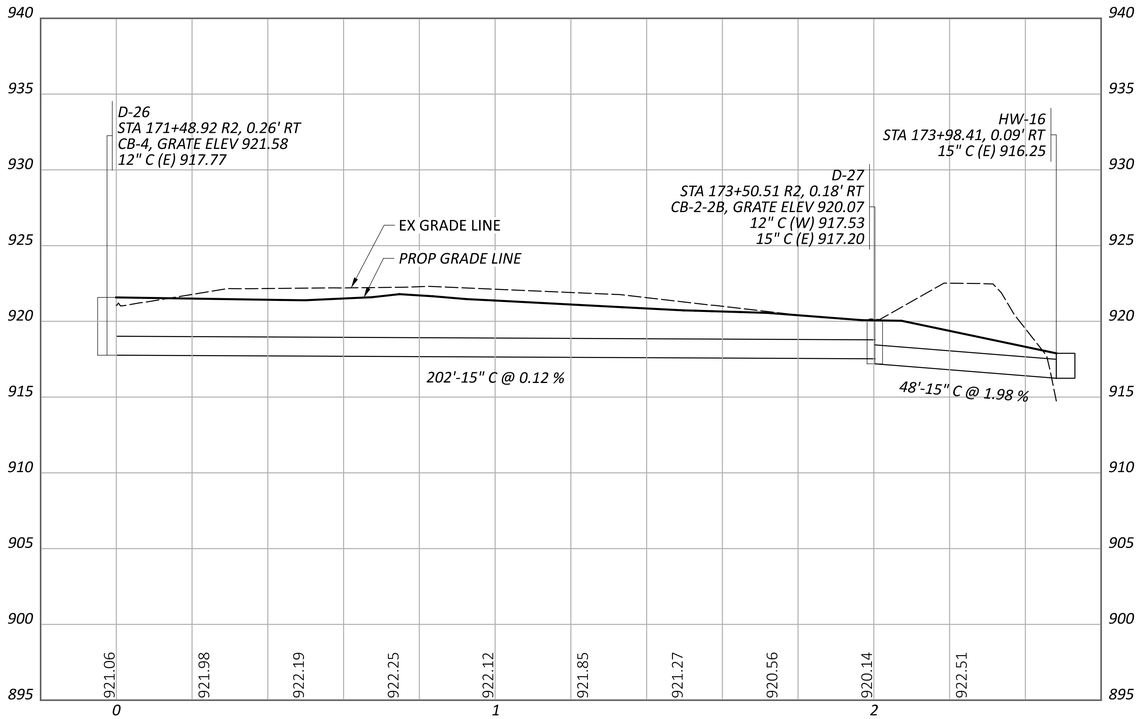

STORM SEWER PROFILES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.463 | TOTAL 577

FRA-70-00.00

MODEL: Profile Sheet 6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:50:16 PM USER: AMerrill
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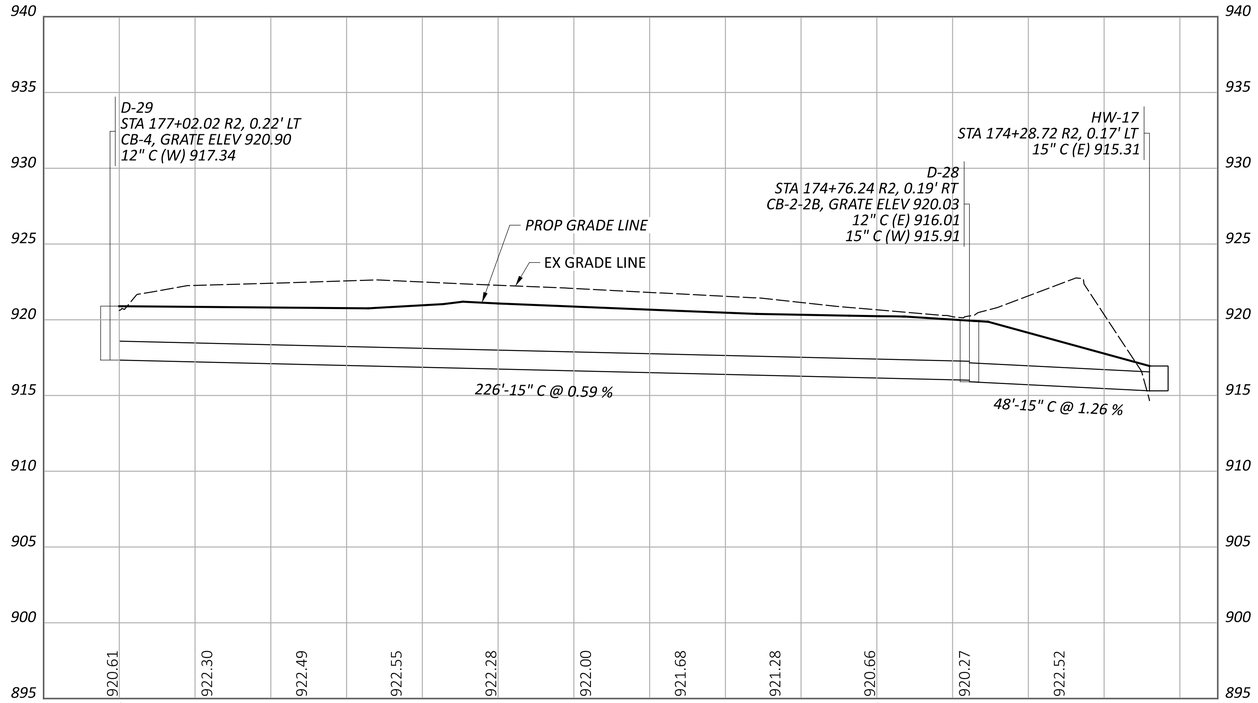

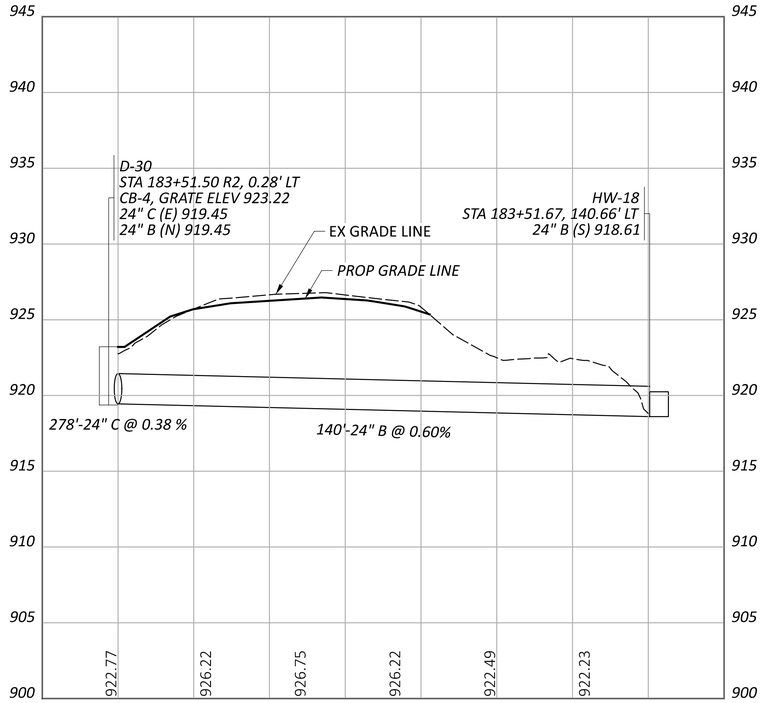

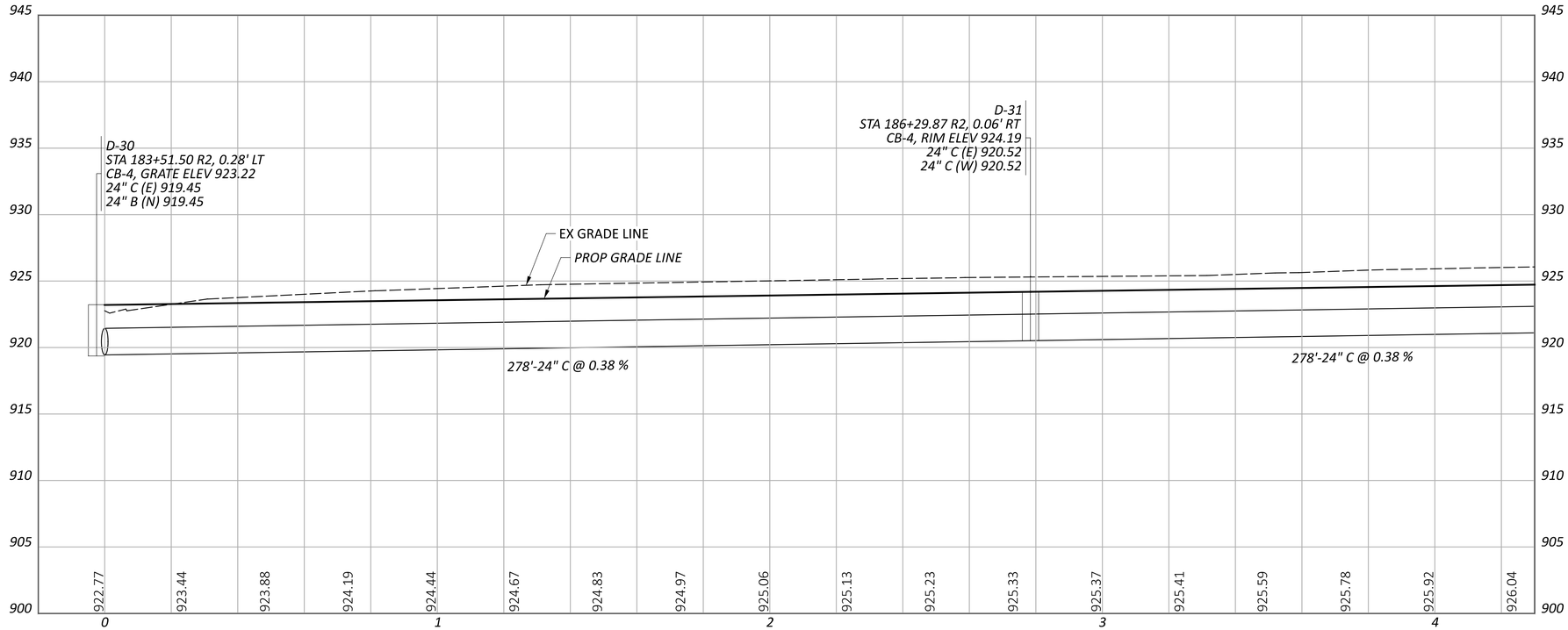

STORM SEWER PROFILES

FRA-70-00.00

MODEL: Profile Sheet 7 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 1/22/2025 TIME: 11:42:42 AM USER: AMerrill
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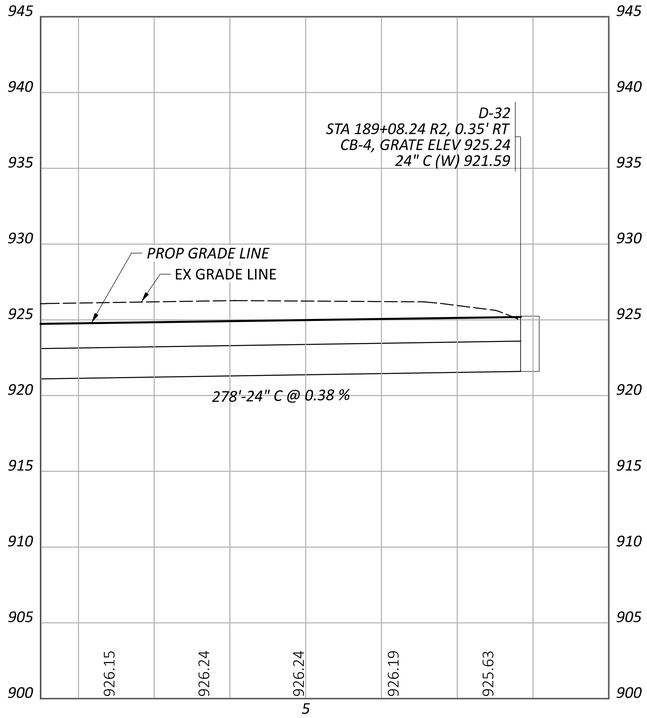
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

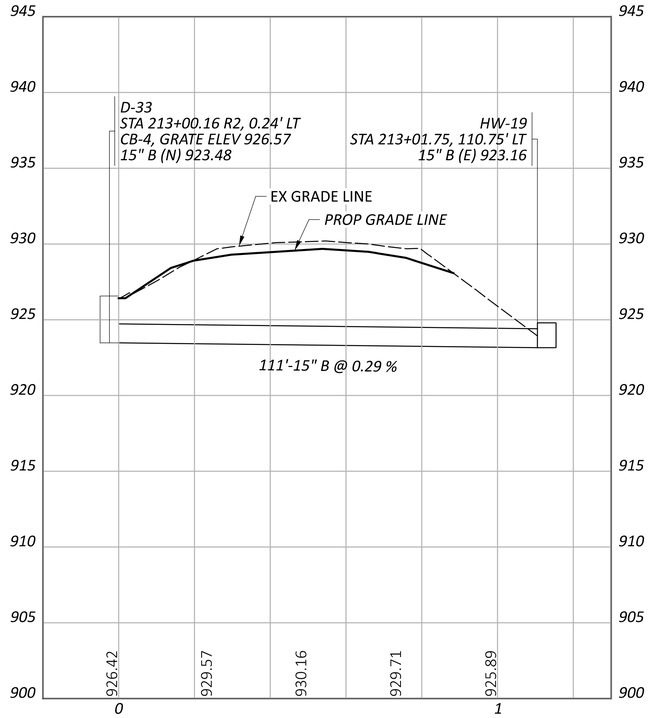
DESIGNER
DMS

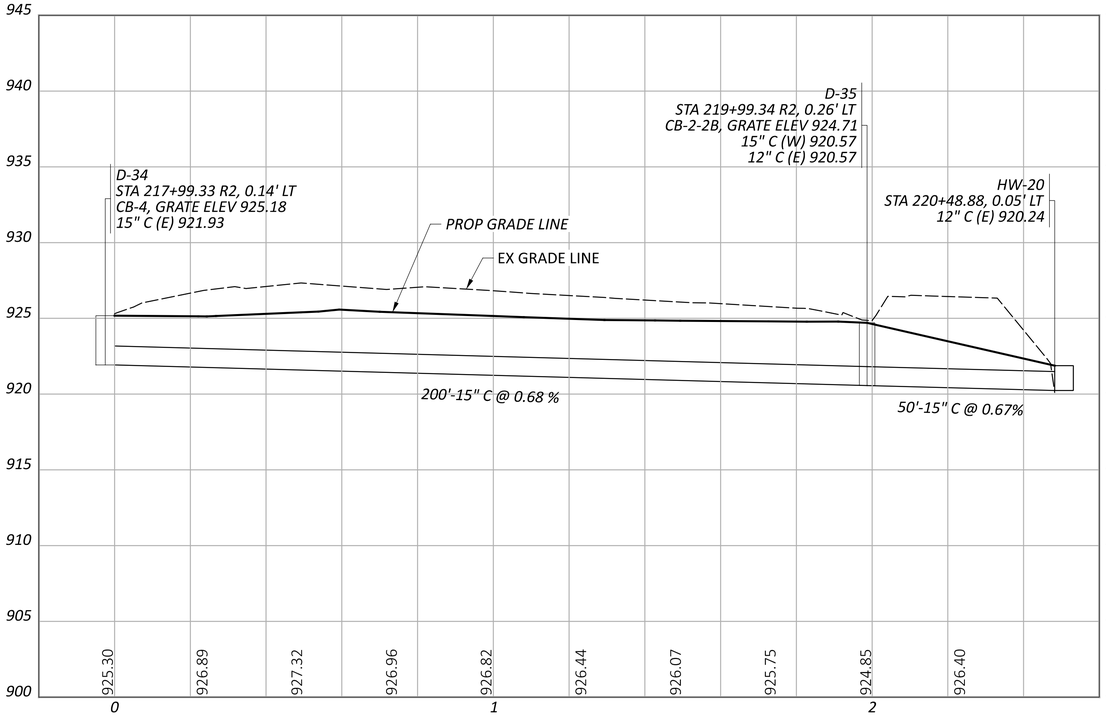
REVIEWER
AJL 08/23/24

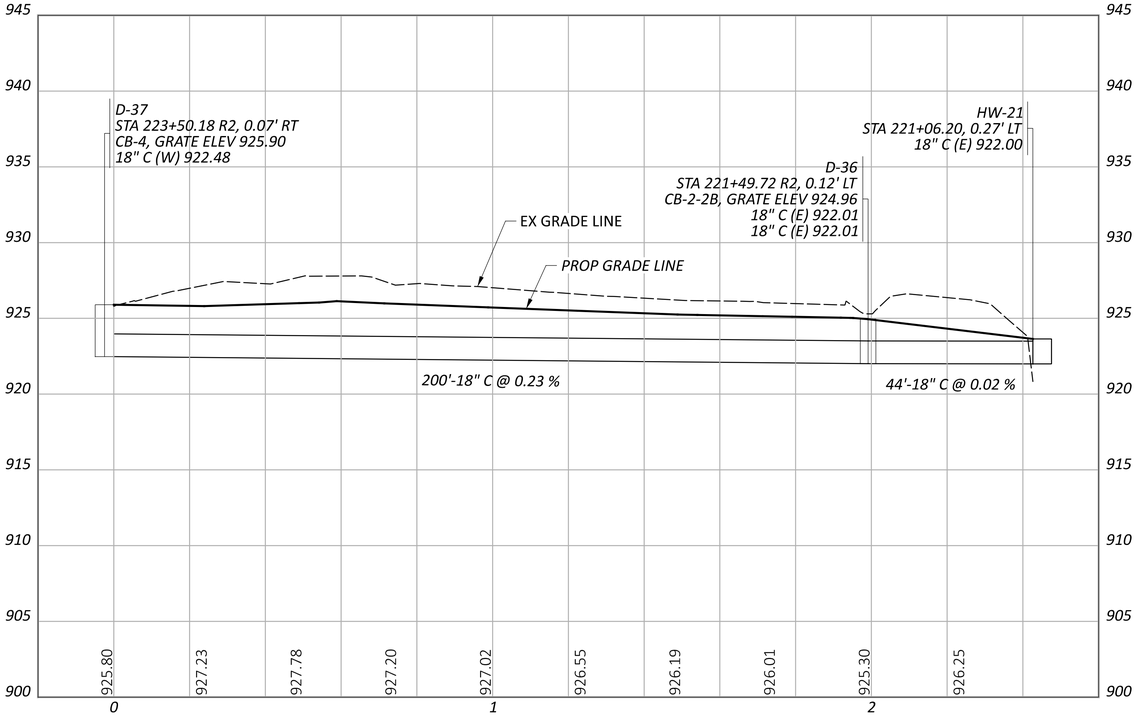
PROJECT ID
116949

SHEET P.464 | TOTAL 577









STORM SEWER PROFILES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.465 TOTAL 577

FRA-70-00.00

MODEL: Profile Sheet 8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:50:18 PM USER: AMerrill
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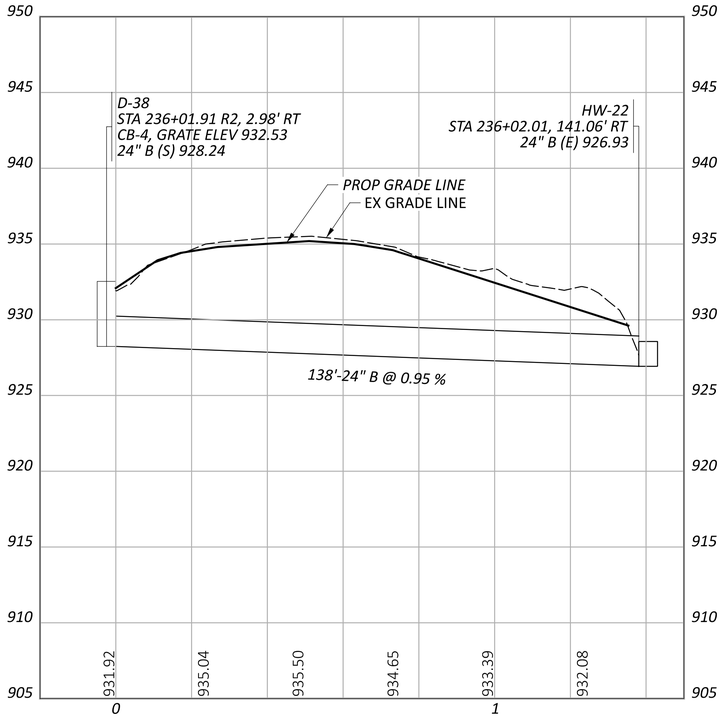

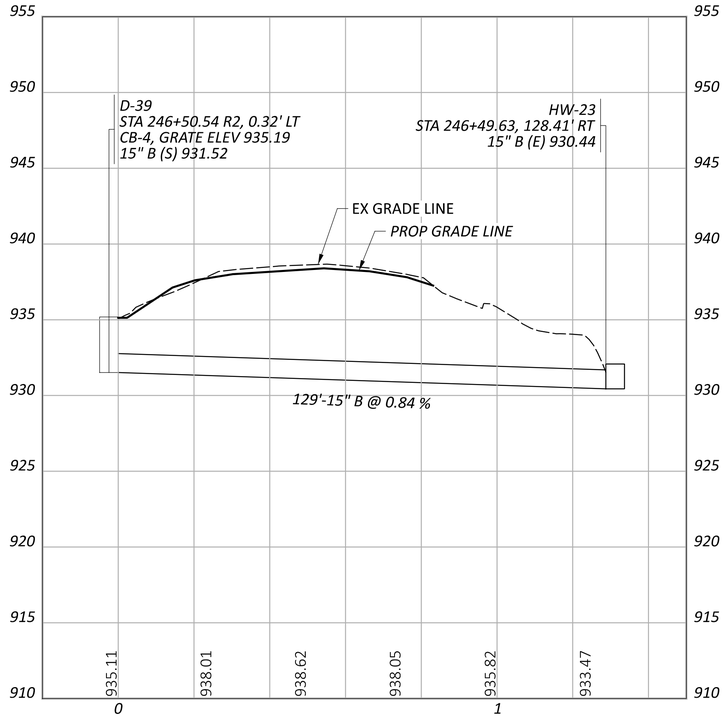

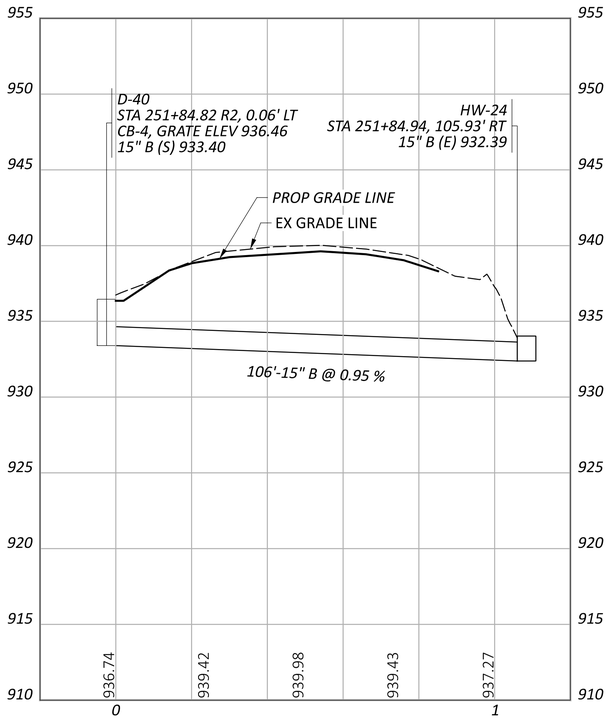

STORM SEWER PROFILES

FRA-70-00.00

MODEL: Profile Sheet 9 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:50:21 PM USER: AMerrill
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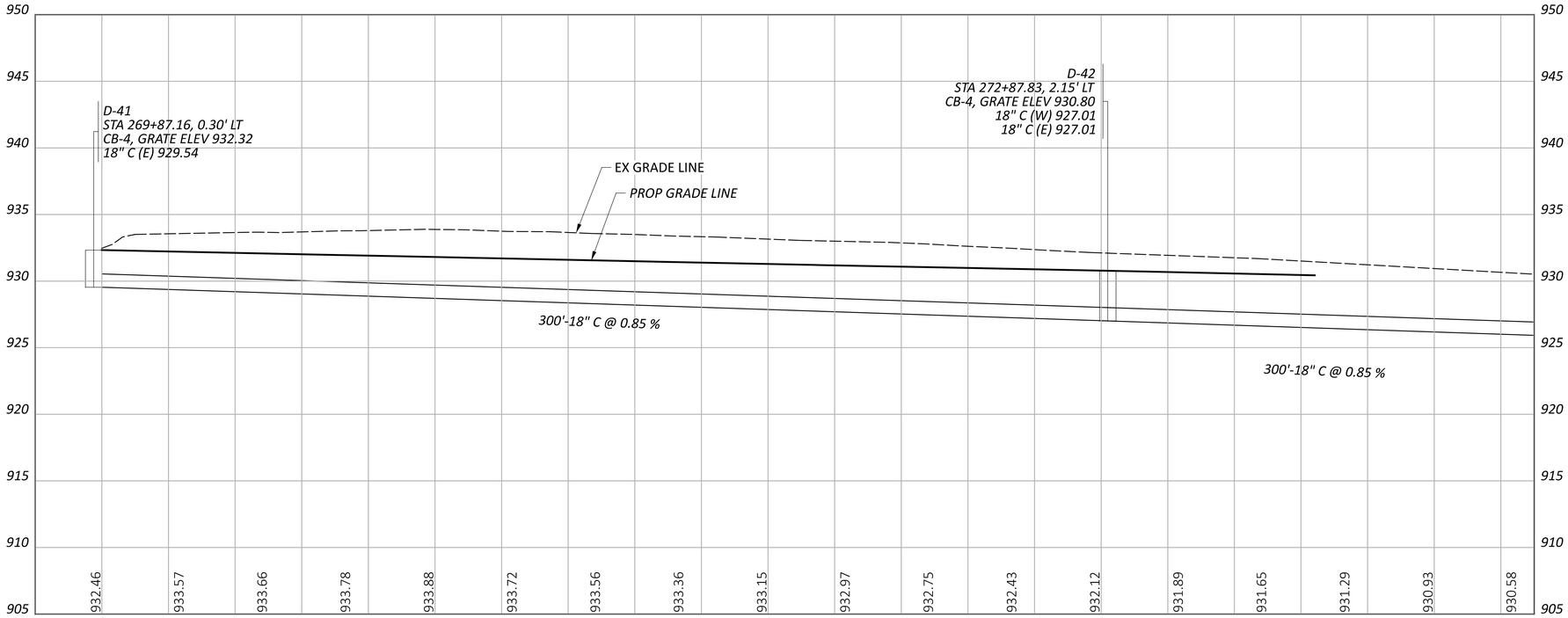
DESIGN AGENCY
STRUCTUREPOINT LLC

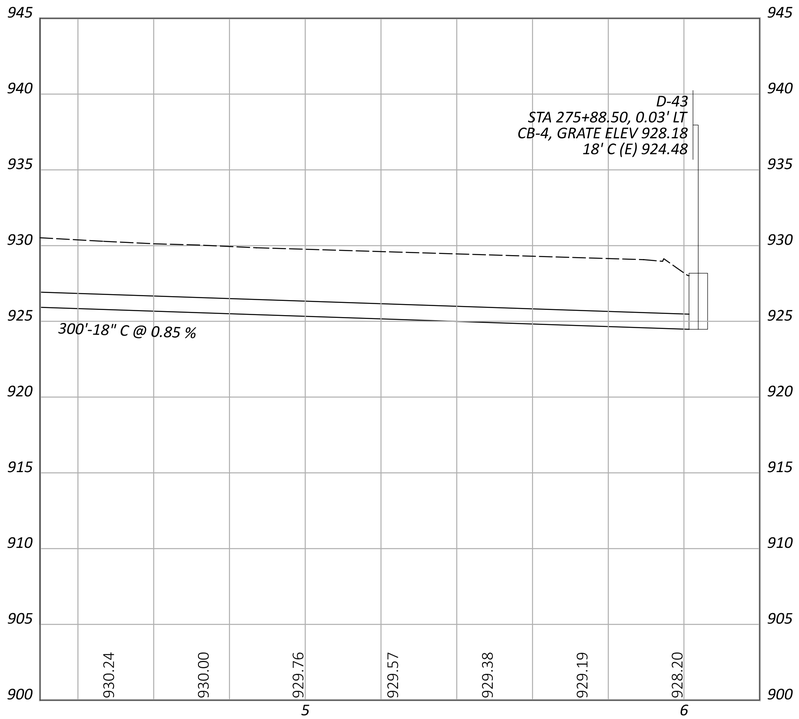
DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.466 TOTAL 577





FRA-70-00.00

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STORM SEWER PROFILES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
DMS

REVIEWER
AJL 08/23/24

PROJECT ID
116949

SHEET P.467 | TOTAL 577

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT (SY)	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (FT)	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (FT)	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS (FT)	611 PRECAST REINFORCED CONCRETE OUTLET (EACH)
475	UD-1	I-70	1+27.00	3+25.38	LT			200		
475	UD-2	I-70	1+27.00	3+25.38	LT	1.78	199		89	1
475	UD-3	I-70	1+27.00	3+25.38	LT		199		30	
475	UD-4	I-70	1+81.15	3+25.38	LT			145		
475	UD-5	I-70	1+28.00	3+06.45	RT			177		
475	UD-6	I-70	1+28.00	3+06.40	RT	1.78	178		69	1
475	UD-7	I-70	1+28.00	3+06.45	RT		178		38	
475	UD-8	I-70	1+28.00	3+06.45	RT			179		
475 - 476	UD-9	I-70	3+25.38	12+00.00	LT			877		
475 - 476	UD-10	I-70	3+25.38	12+00.00	LT		877			
475 - 476	UD-11	I-70	3+25.38	12+00.00	LT		877			
475 - 476	UD-12	I-70	3+25.38	12+00.00	LT			877		
475 - 476	UD-13	I-70	3+06.45	12+17.67	RT			911		
475 - 476	UD-14	I-70	3+06.45	12+17.67	RT		911			
475 - 476	UD-15	I-70	3+06.45	12+17.67	RT		911			`
475 - 476	UD-16	I-70	3+06.45	12+17.67	RT			911		
475 - 476	UD-17	I-70	11+99.78	17+51.69	LT			552		
475 - 476	UD-18	I-70	11+99.78	17+51.69	LT	1.78	552		23	1
475 - 476	UD-19	I-70	11+99.78	17+02.04	LT		502		31	
475 - 476	UD-20	I-70	11+99.78	17+02.04	LT			502		
475 - 476	UD-21	I-70	12+17.67	17+02.04	RT			484		
475 - 476	UD-22	I-70	12+17.67	17+02.04	RT	1.78	484		22	1
475 - 476	UD-23	I-70	12+17.67	17+02.04	RT		484		36	
475 - 476	UD-24	I-70	12+17.67	17+02.04	RT			484		
476	UD-25	I-70	17+51.69	22+05.54	LT			454		
476	UD-26	I-70	17+51.69	22+05.54	LT	1.78	454		19	1
476	UD-27	I-70	17+02.04	22+05.54	LT		504		30	
476	UD-28	I-70	17+02.04	22+05.54	LT			504		
476	UD-29	I-70	17+02.04	22+05.54	RT			504		
476	UD-30	I-70	17+02.04	22+05.54	RT	1.78	504		21	1
476	UD-31	I-70	17+02.04	22+05.54	RT		504		30	
476	UD-32	I-70	17+02.04	22+05.54	RT			504		
476	UD-33	I-70	22+05.54	27+05.29	LT			500		
476	UD-34	I-70	22+05.54	27+05.29	LT	1.78	500		20	1
476	UD-35	I-70	22+05.54	27+05.29	LT		500		30	
476	UD-36	I-70	22+05.54	27+05.29	LT			500		
476	UD-37	I-70	22+05.54	27+05.29	RT			500		
476	UD-38	I-70	22+05.54	27+05.29	RT	1.78	500		20	1
476	UD-39	I-70	22+05.54	27+05.29	RT		500		30	
476	UD-40	I-70	22+05.54	27+05.29	RT			500		
476	UD-41	I-70	27+05.29	32+07.02	LT			502		
476	UD-42	I-70	27+05.29	32+07.02	LT	1.78	502		20	1
476	UD-43	I-70	27+05.29	32+07.02	LT		502	502	30	
476	UD-44	I-70	27+05.29	32+07.02	LT					
476	UD-45	I-70	27+05.29	32+07.02	RT			502		
476	UD-46	I-70	27+05.29	32+07.02	RT	1.78	502		20	1
476	UD-47	I-70	27+05.29	32+07.02	RT		502		30	
476	UD-48	I-70	27+05.29	32+07.02	RT			502		
476	UD-49	I-70	32+07.02	38+60.78	LT			654		
476	UD-50	I-70	32+07.02	38+60.78	LT	1.78	654		20	1
TOTALS CARRIED TO SHEET 469						20	12,981	12,927	656	11

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614 360 9999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.468 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:09:57 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT (SY)	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (FT)	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (FT)	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS (FT)	611 PRECAST REINFORCED CONCRETE OUTLET (EACH)
476	UD-51	I-70	32+07.02	38+60.78	LT		654		30	
476	UD-52	I-70	32+07.02	38+60.78	LT			654		
476	UD-53	I-70	32+07.02	38+60.78	RT			654		
476	UD-54	I-70	32+07.02	38+60.78	RT	1.78	654		20	1
476	UD-55	I-70	32+07.02	38+60.78	RT		654		30	
476	UD-56	I-70	32+07.02	38+60.78	RT			654		
476	UD-57	I-70	38+60.78	43+90.56	LT			530		
476	UD-58	I-70	38+60.78	43+90.56	LT	1.78	530		20	1
476	UD-59	I-70	38+60.78	45+16.69	LT	1.78	656		20	1
476	UD-60	I-70	38+60.78	45+16.69	LT			656		
476	UD-61	I-70	38+60.78	45+16.69	RT			656		
476	UD-62	I-70	38+60.78	45+16.69	RT	1.78	656		20	1
476	UD-63	I-70	38+60.78	45+16.69	RT	1.78	656		20	1
476	UD-64	I-70	38+60.78	45+16.69	RT					
477	UD-65	I-70	43+90.56	53+99.15	LT			1009		
477	UD-66	I-70	43+90.56	53+99.15	LT	1.78	1009		20	1
477	UD-67	I-70	45+16.69	53+99.15	LT		882		30	
477	UD-68	I-70	45+16.69	53+99.15	LT			882		
477	UD-69	I-70	45+16.69	54+17.90	RT					
477	UD-70	I-70	45+16.69	54+17.90	RT	1.78	882		25	1
477	UD-71	I-70	45+16.69	54+17.90	RT		882		30	
477	UD-72	I-70	45+16.69	54+17.90	RT			882		
477	UD-73	I-70	53+99.15	62+49.03	LT			850		
477	UD-74	I-70	53+99.15	62+49.03	LT	1.78	850		25	1
477	UD-75	I-70	53+99.15	62+49.03	LT		850		30	
477	UD-76	I-70	53+99.15	62+49.03	LT			850		
477	UD-77	I-70	54+17.90	62+67.59	RT			850		
477	UD-78	I-70	54+17.90	62+67.59	RT	1.78	850		38	1
477	UD-79	I-70	54+17.90	62+67.59	RT		850		25	
477	UD-80	I-70	54+17.90	62+67.59	RT			850		
477 - 478	UD-81	I-70	62+49.03	69+14.72	LT			666		
477 - 478	UD-82	I-70	62+49.03	69+14.72	LT	1.78	666		20	1
477 - 478	UD-83	I-70	62+49.03	69+14.72	LT		666		30	
477 - 478	UD-84	I-70	62+49.03	69+14.72	LT			666		
477 - 478	UD-85	I-70	62+67.59	69+14.72	RT			647		
477 - 478	UD-86	I-70	62+67.59	69+14.72	RT	1.78	647		38	1
477 - 478	UD-87	I-70	62+67.59	69+14.72	RT		647		25	
477 - 478	UD-88	I-70	62+67.59	69+14.72	RT			647		
478	UD-89	I-70	69+14.72	75+81.42	LT			667		
478	UD-90	I-70	69+14.72	75+81.42	LT	1.78	667		20	1
478	UD-91	I-70	69+14.72	75+81.42	LT	1.78	667		20	1
478	UD-92	I-70	69+14.72	75+81.42	LT			667		
478	UD-93	I-70	69+14.72	75+81.42	RT			667		
478	UD-94	I-70	69+14.72	75+81.42	RT	1.78	667		20	1
478	UD-95	I-70	69+14.72	75+81.42	RT	1.78	667		25	1
478	UD-96	I-70	69+14.72	75+81.42	RT			667		
478	UD-97	I-70	75+81.42	84+01.60	LT			820		
478	UD-98	I-70	75+81.42	84+01.60	LT	1.78	820		20	1
478	UD-99	I-70	75+81.42	84+01.60	LT		820		30	
478	UD-100	I-70	75+81.42	84+01.60	LT			820		
		TOTALS CARRIED TO SHEET 470				28	18,449	16,910	631	16

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614 360 9999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.469 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:11:53 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT (SY)	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (FT)	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (FT)	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS (FT)	611 PRECAST REINFORCED CONCRETE OUTLET (EACH)											
478	UD-101	I-70	75+81.42	84+20.76	RT			839													
478	UD-102	I-70	75+81.42	84+20.76	RT	1.78	839		30	1											
478	UD-103	I-70	75+81.42	84+20.76	RT		839		20												
478	UD-104	I-70	75+81.42	84+20.76	RT			839													
478 - 479	UD-105	I-70	84+01.60	93+00.70	LT			899													
478 - 479	UD-106	I-70	84+01.60	93+00.70	LT	1.78	899		20	1											
478 - 479	UD-107	I-70	84+01.60	93+00.70	LT		899		30												
478 - 479	UD-108	I-70	84+01.60	93+00.70	LT			899													
478 - 479	UD-109	I-70	84+20.76	93+19.05	RT			898													
478 - 479	UD-110	I-70	84+20.76	93+19.05	RT	1.78	898		38	1											
478 - 479	UD-111	I-70	84+20.76	93+19.05	RT		898		20												
478 - 479	UD-112	I-70	84+20.76	93+19.05	RT			898													
479	UD-113	I-70	93+00.70	102+00.37	LT			900													
479	UD-114	I-70	93+00.70	102+00.37	LT	1.78	900		20	1											
479	UD-115	I-70	93+00.70	102+00.37	LT		900		30												
479	UD-116	I-70	93+00.70	102+00.37	LT			900													
479	UD-117	I-70	93+19.05	102+18.99	RT			900													
479	UD-118	I-70	93+19.05	102+18.99	RT	1.78	900		25	1											
479	UD-119	I-70	93+19.05	102+18.99	RT		900		38												
479	UD-120	I-70	93+19.05	102+18.99	RT			900													
479	UD-121	I-70	102+00.37	111+00.84	LT			900													
479	UD-122	I-70	102+00.37	111+00.84	LT	1.78	900		20	1											
479	UD-123	I-70	102+00.37	111+00.84	LT		900		30												
479	UD-124	I-70	102+00.37	111+00.84	LT			900													
479	UD-125	I-70	102+18.99	111+18.59	RT			900													
479	UD-126	I-70	102+18.99	111+18.59	RT	1.78	900		25	1											
479	UD-127	I-70	102+18.99	111+18.59	RT		900		38												
479 - 479	UD-128	I-70	102+18.99	111+18.59	RT			900													
479 - 480	UD-129	I-70	111+00.84	121+01.03	LT			1000													
479 - 480	UD-130	I-70	111+00.84	121+01.03	LT	1.78	1000		20	1											
479 - 480	UD-131	I-70	111+00.84	121+01.03	LT		1000		30												
479 - 480	UD-132	I-70	111+00.84	121+01.03	LT			1000													
479 - 480	UD-133	I-70	111+18.59	121+19.52	RT			1001													
479 - 480	UD-134	I-70	111+18.59	121+19.52	RT	1.78	1001		22	1											
479 - 480	UD-135	I-70	111+18.59	121+19.52	RT		1001		36												
479 - 480	UD-136	I-70	111+18.59	121+19.52	RT			1001													
480	UD-137	I-70	121+01.03	135+42.23	LT			1441													
480	UD-138	I-70	121+01.03	135+42.23	LT	1.78	1441		20	1											
480	UD-139	I-70	121+01.03	135+42.23	LT		1441		30												
480	UD-140	I-70	121+01.03	135+42.23	LT			1441													
480	UD-141	I-70	121+19.52	135+25.46	RT			1406													
480	UD-142	I-70	121+19.52	135+25.46	RT	1.78	1406		25	1											
480	UD-143	I-70	121+19.52	135+25.46	RT		1406		38												
480	UD-144	I-70	121+19.52	135+25.46	RT			1406													
480	UD-145	I-70	121+01.03	135+42.23	LT			1441													
480	UD-146	I-70	121+01.03	135+42.23	LT	1.78	1441		25	1											
480	UD-147	I-70	121+01.03	135+42.23	LT		1441		30												
480	UD-148	I-70	121+01.03	135+42.23	LT			1441													
480	UD-149	I-70	121+19.52	135+25.46	RT			1406													
480	UD-150	I-70	121+19.52	135+25.46	RT	1.78	1406		25	1											
TOTALS CARRIED TO SHEET 471						23	26,457	26,457	685	13											

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614 360 9999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.470 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:13:21 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT (SY)	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (FT)	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (FT)	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS (FT)	611 PRECAST REINFORCED CONCRETE OUTLET (EACH)
480	UD-151	I-70	121+19.52	135+25.46	RT		1406		38	
480	UD-152	I-70	121+19.52	135+25.46	RT			1406		
480	UD-153	I-70	135+42.23	140+99.92	LT			558		
480	UD-154	I-70	135+42.23	140+99.92	LT	1.78	558		25	1
480	UD-155	I-70	135+42.23	140+99.92	LT		558		30	
480	UD-156	I-70	135+42.23	140+99.92	LT			558		
480	UD-157	I-70	135+25.46	140+89.09	RT			564		
480	UD-158	I-70	135+25.46	140+89.09	RT	1.78	564		25	1
480	UD-159	I-70	135+25.46	140+89.09	RT		564		38	
480	UD-160	I-70	135+25.46	140+89.09	RT			564		
480 - 481	UD-161	I-70	140+99.92	150+82.58	LT			983		
480 - 481	UD-162	I-70	140+99.92	150+82.58	LT	1.78	983		25	1
480 - 481	UD-163	I-70	140+99.92	150+82.58	LT		983		30	
480 - 481	UD-164	I-70	140+99.92	150+82.58	LT			983		
480 - 481	UD-165	I-70	140+89.09	151+01.33	RT			1012		
480 - 481	UD-166	I-70	140+89.09	151+01.33	RT	1.78	1012		25	1
480 - 481	UD-167	I-70	140+89.09	151+01.33	RT		1012		38	
480 - 481	UD-168	I-70	140+89.09	151+01.33	RT			1012		
481	UD-169	I-70	150+82.58	160+69.11	LT			987		
481	UD-170	I-70	150+82.58	160+69.11	LT	1.78	987		20	1
481	UD-171	I-70	150+82.58	160+80.32	LT		987		38	
481	UD-172	I-70	150+82.58	160+80.32	LT			987		
481	UD-173	I-70	151+01.33	161+01.05	RT			1000		
481	UD-174	I-70	151+01.33	161+01.05	RT	1.78	1000		25	1
481	UD-175	I-70	151+01.33	161+01.05	RT		1000		30	
481	UD-176	I-70	151+01.33	161+01.05	RT			1000		
481 - 482	UD-177	I-70	160+69.11	167+17.40	LT			648		
481 - 482	UD-178	I-70	160+69.11	167+17.40	LT	1.78	648		20	1
481 - 482	UD-179	i-70	160+82.30	167+17.40	LT	1.78	635		20	1
481 - 482	UD-180	I-70	160+82.30	167+17.40	LT			635		
481 - 482	UD-181	I-70	161+01.05	167+17.40	RT			635		
481 - 482	UD-182	I-70	161+01.05	167+17.40	RT	1.78	635		20	1
481 - 482	UD-183	I-70	161+01.05	167+17.40	RT	1.78	635		25	1
481 - 482	UD-184	I-70	161+01.05	167+17.40	RT			635		
482	UD-185	I-70	167+17.40	173+50.51	LT			633		
482	UD-186	I-70	167+17.40	173+50.51	LT	1.78	633		20	1
482	UD-187	I-70	167+17.40	173+50.51	LT		633		30	
482	UD-188	I-70	167+17.40	173+50.51	LT			633		
482	UD-189	I-70	167+17.40	173+50.51	RT			633		
482	UD-190	I-70	167+17.40	173+50.51	RT	1.78	633		20	1
482	UD-191	I-70	167+17.40	173+50.51	RT		633		30	
482	UD-192	I-70	167+17.40	173+50.51	RT			633		
482	UD-193	I-70	174+76.24	178+43.67	LT			367		
482	UD-194	I-70	174+76.24	178+43.67	LT	1.78	367		20	1
482	UD-195	I-70	174+76.24	177+02.02	LT		226		30	
482	UD-196	I-70	174+76.24	177+02.02	LT			226		
482	UD-197	I-71	174+76.24	177+02.02	RT			226		
482	UD-198	I-70	174+76.24	177+02.02	RT	1.78	226		20	1
482	UD-199	I-70	174+76.24	177+02.02	RT		226		30	
482	UD-200	I-70	174+76.24	177+02.02	RT			352		
TOTALS CARRIED TO SHEET 472						25	17,743	17,869	672	14

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET SUITE 200 COLUMBUS, OHIO 43215 P: 614 280 8999
MOODY ENGINEERING
MOODY-ENG.COM

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.471 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:15:22 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT SY	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH
482	UD-201	I-70	178+43.67	183+69.92	LT			526		
482	UD-202	I-70	178+43.67	183+69.92	LT	1.78	526		25	1
482	UD-203	I-70	178+43.67	183+69.92	LT		526		30	
482	UD-204	I-70	178+43.67	183+69.92	LT			526		
482	UD-205	I-70	177+02.02	183+51.50	RT			649		
482	UD-206	I-70	177+02.02	183+51.50	RT	1.78	649		20	1
482	UD-207	I-70	177+02.02	183+51.50	RT		649		30	
482	UD-208	I-70	177+02.02	183+51.50	RT			649		
482	UD-209	I-70	183+69.92	189+08.24	LT			538		
482	UD-210	I-70	183+69.92	189+08.24	LT	1.78	538		25	1
482	UD-211	I-70	183+69.92	189+08.24	LT		538		38	
482	UD-212	I-70	183+51.50	189+08.24	LT			557		
482	UD-213	I-70	183+51.50	189+08.24	RT			557		
482	UD-214	I-70	183+51.50	189+08.24	RT	1.78	557		25	1
482	UD-215	I-70	183+51.50	189+08.24	RT		557		30	
482	UD-216	I-70	183+51.50	189+08.24	RT			557		
482 - 483	UD-217	I-70	189+08.24	195+04.12	LT			596		
482 - 483	UD-218	I-70	189+08.24	195+04.12	LT	1.78	596		20	1
482 - 483	UD-219	I-70	189+08.24	195+04.12	LT		596		30	
482 - 483	UD-220	I-70	189+08.24	195+04.12	LT			596		
482 - 483	UD-221	I-70	189+08.24	195+04.12	RT			596		
482 - 483	UD-222	I-70	189+08.24	195+04.12	RT	1.78	596		20	1
482 - 483	UD-223	I-70	189+08.24	195+04.12	RT		596		30	
482 - 483	UD-224	I-70	189+08.24	195+04.12	RT			596		
483	UD-225	I-70	195+04.12	206+90.63	LT			1187		
483	UD-226	I-70	195+04.12	206+90.63	LT	1.78	1187		25	1
483	UD-227	I-70	195+04.12	206+90.63	LT	1.78	1187		20	1
483	UD-228	I-70	195+04.12	206+90.63	LT			1187		
483	UD-229	I-70	195+04.12	206+90.63	RT			1187		
483	UD-230	I-70	195+04.12	206+90.63	RT	1.78	1187		20	1
483	UD-231	I-70	195+04.12	206+90.63	RT	1.78	1187		25	1
483	UD-232	I-70	195+04.12	206+90.63	RT			1187		
483 - 484	UD-233	I-70	195+04.12	206+90.63	LT			1187		
483 - 484	UD-234	I-70	195+04.12	206+90.63	LT	1.78	1187		25	1
483 - 484	UD-235	I-70	195+04.12	206+90.63	LT	1.78	1187		20	1
483 - 484	UD-236	I-70	195+04.12	206+90.63	LT			1187		
483 - 484	UD-237	I-70	195+04.12	206+90.63	RT			1187		
483 - 484	UD-238	I-70	195+04.12	206+90.63	RT	1.78	1187		20	1
483 - 484	UD-239	I-70	195+04.12	206+90.63	RT	1.78	1187		25	1
483 - 484	UD-240	I-70	195+04.12	206+90.63	RT			1187		
484	UD-241	I-70	206+90.63	212+81.25	LT			591		
484	UD-242	I-70	206+90.63	212+81.25	LT	1.78	591		25	1
484	UD-243	I-70	206+90.63	212+81.25	LT		591		38	
484	UD-244	I-70	206+90.63	212+81.25	LT			591		
484	UD-245	I-70	206+90.63	213+00.00	RT			609		
484	UD-246	I-70	206+90.63	213+00.00	RT	1.78	609		25	1
484	UD-247	I-70	206+90.63	213+00.00	RT		609		30	
484	UD-248	I-70	206+90.63	213+00.00	RT			609		
484	UD-249	I-70	212+81.25	220+31.50	LT			750		
484	UD-250	I-70	212+81.25	220+31.50	LT	1.78	750		22	1
		TOTALS CARRIED TO SHEET 473				30	19,571	19,589	643	17

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614 360 9999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.472 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:17:02 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT SY	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH
484	UD-251	I-70	212+81.25	220+17.52	LT		736		30	
484	UD-252	I-70	212+81.25	220+14.87	LT			734		
484	UD-253	I-70	213+00.00	219+85.62	RT			686		
484	UD-254	I-70	213+00.00	219+77.61	RT	1.78	678		25	1
484	UD-255	I-70	213+00.00	219+92.92	RT		693		30	
484	UD-256	I-70	213+00.00	219+94.97	RT			695		
484	UD-257	I-70	221+74.11	224+60.82	LT			287		
484	UD-258	I-70	221+74.11	223+50.18	LT	1.78	176		20	1
484	UD-259	I-70	221+56.82	223+50.18	LT		193		31	
484	UD-260	I-70	221+56.82	223+50.18	LT			193		
484	UD-261	I-70	221+49.72	223+50.18	RT			200		
484	UD-262	I-70	221+49.72	223+50.18	RT	1.78	200		20	1
484	UD-263	I-70	221+49.72	223+50.18	RT		200		30	
484	UD-264	I-70	221+49.72	223+50.18	RT			200		
484	UD-265	I-70	224+60.82	229+75.05	LT			514		
484	UD-266	I-70	224+60.82	229+75.05	LT	1.78	514		20	1
484	UD-267	I-70	223+50.18	229+75.05	LT		625		30	
484	UD-268	I-70	223+50.18	229+75.05	LT			625		
484	UD-269	I-70	223+50.18	229+75.05	RT			625		
484	UD-270	I-70	223+50.18	229+75.05	RT	1.78	625.00		20	1
484	UD-271	I-70	223+50.18	229+75.05	RT		625		30	
484	UD-272	I-70	223+50.18	229+75.05	RT			625		
484	UD-273	I-70	229+75.05	236+01.91	LT			627		
484	UD-274	I-70	229+75.05	236+01.91	LT	1.78	627		20	1
484	UD-275	I-70	229+75.05	236+01.91	LT	1.78	627		30	1
484	UD-276	I-70	229+75.05	236+01.91	LT			627		
484	UD-277	I-70	229+75.05	236+17.68	RT			643		
484	UD-278	I-70	229+75.05	236+17.68	RT	1.78	643		20	1
484	UD-279	I-70	229+75.05	236+50.00	RT	1.78	675		30	1
484	UD-280	I-70	229+75.05	236+50.00	RT			675		
484	UD-281	I-70	236+01.91	241+25.22	LT			523		
484	UD-282	I-70	236+01.91	241+25.22	LT	1.78	523		25	1
484	UD-283	I-70	236+01.91	241+25.22	LT		523		32	
484	UD-284	I-70	236+01.91	241+25.22	LT			523		
484	UD-285	I-70	236+50.00	241+25.22	RT			475		
484	UD-286	I-70	236+50.00	241+25.22	RT	1.78	475		20	1
484	UD-287	I-70	236+17.68	241+25.22	RT		508		33	
484	UD-288	I-70	236+17.68	241+25.22	RT			508		
484 - 485	UD-289	I-70	241+25.22	246+50.54	LT			525		
484 - 485	UD-290	I-70	241+25.22	246+50.54	LT	1.78	525		25	1
484 - 485	UD-291	I-70	241+25.22	246+50.54	LT	1.78	525		20	1
484 - 485	UD-292	I-70	241+25.22	246+50.54	RT			525		
484 - 485	UD-293	I-70	241+25.22	246+69.87	RT			545		
484 - 485	UD-294	I-70	241+25.22	246+69.87	RT	1.78	545		25	1
484 - 485	UD-295	I-70	241+25.22	246+69.87	RT	1.78	545		20	1
484 - 485	UD-296	I-70	241+25.22	246+69.87	RT			545		
485	UD-297	I-70	246+50.54	251+83.57	LT			533		
485	UD-298	I-70	246+50.54	249+50.15	LT	1.78	300		25	1
485	UD-299	I-70	246+50.54	251+83.57	LT		533		30	
485	UD-300	I-70	246+50.54	251+83.57	LT			533		
TOTALS CARRIED TO SHEET 474						28	12,840	13,192	641	16

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614 340 9999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.473 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:19:07 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT SY	605 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	605 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH
485	UD-301	I-70	246+69.87	252+05.09	RT			535		
485	UD-302	I-70	246+69.87	252+05.09	RT	1.78	535		18	1
485	UD-303	I-70	246+69.87	252+05.07	RT		535		38	
485	UD-304	I-70	246+69.87	252+05.07	RT			535		
485	UD-305	I-70	251+83.57	259+00.00	LT	1.78		716	15	1
485	UD-306	I-70	251+84.82	267+89.16	LT		1604		30	
485	UD-307	I-70	251+84.82	267+89.16	LT			1604		
485	UD-308	I-70	252+05.09	262+48.99	RT			1044		
485	UD-309	I-70	252+05.09	257+99.97	RT	1.78	595		20	1
485	UD-310	I-70	252+05.07	269+90.04	RT		1785		38	
485	UD-311	I-70	252+05.07	269+88.88	RT			1784		
485	UD-312	RAMP A	259+00.00	266+50.00	LT	1.78	750		25	1
485	UD-313	I-70	251+84.82	269+87.16	LT		1802		30	
485	UD-314	I-70	251+84.82	269+87.16	LT			1802		
485	UD-315	RAMP E	258+96.48	272+00.00	RT	1.78	1304		14	1
485	UD-316	I-70	252+05.07	269+87.16	RT		1782		30	
485	UD-317	I-70	252+05.07	269+87.16	RT			1782		
485 - 486	UD-318	I-70	264+78.88	269+78.94	LT			500		
485 - 486	UD-319	I-70	264+78.88	269+78.94	LT	1.78	500		20	1
485 - 486	UD-320	I-70	265+04.31	269+87.16	RT			483		
485 - 486	UD-321	I-70	265+04.31	269+87.16	RT	1.78		483	25	1
485 - 486	UD-322	I-70	269+78.94	273+50.00	LT			371		
485 - 486	UD-323	I-70	269+78.94	273+50.00	LT		371			
485 - 486	UD-324	I-70	269+87.16	273+50.00	LT		363			
485 - 486	UD-325	I-70	269+87.16	273+50.00	LT			363		
485 - 486	UD-326	I-70	269+87.16	274+50.00	RT			463		
485 - 486	UD-327	I-70	269+87.16	274+50.00	RT		463			
485 - 486	UD-328	I-70	269+87.16	274+50.00	RT		463			
485 - 486	UD-329	I-70	269+87.16	274+50.00	RT			463		
487	UD-330	RAMP A	264+76.86	266+50.00	RT	1.78	173		15	1
487	UD-331	RAMP A	266+50.00	278+01.19	LT		1158			
487	UD-332	RAMP A	266+50.00	278+13.23	RT		1161			
488	UD-333	RAMP E	265+03.13	272+00.00	LT	1.78	712		20	1
488	UD-334	RAMP E	272+00.00	277+90.44	LT		571			
488	UD-335	RAMP E	272+00.00	277+90.44	RT		597			
TOTALS THIS SHEET						16	17,224	12,929	338	9
TOTALS CARRIED TO GENERAL SUMMARY						171	125,266	119,872	4,265	96

UNDERDRAIN SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614 280 9999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.474 TOTAL 577

FRA-70-0.00

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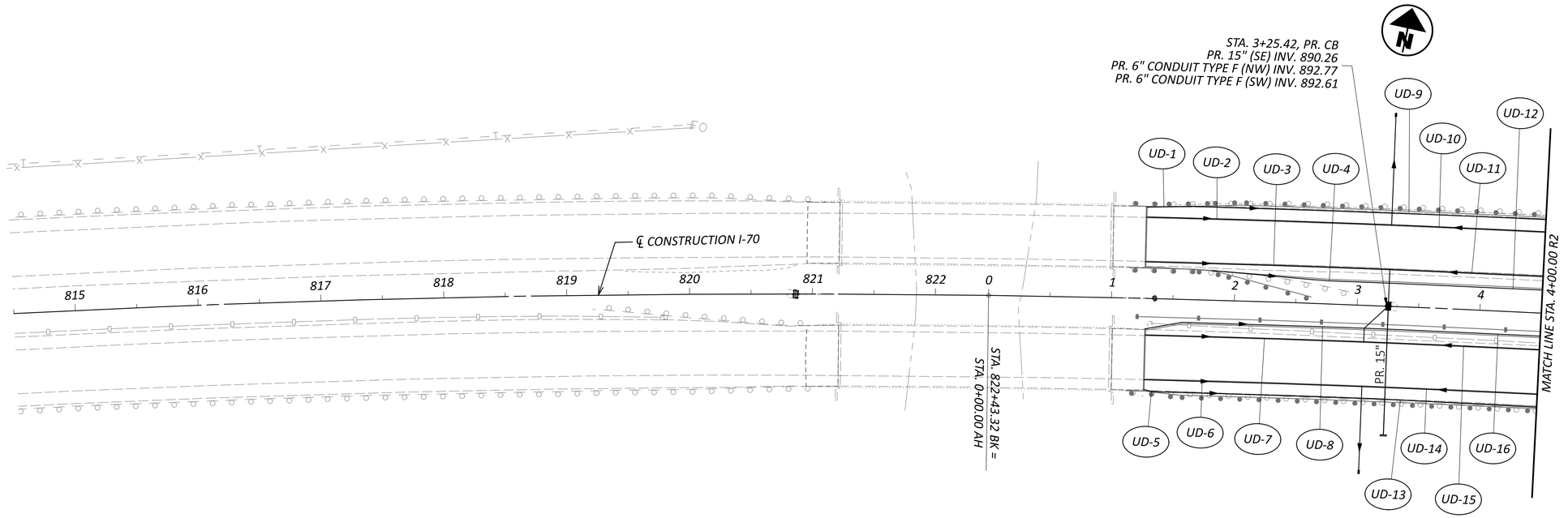

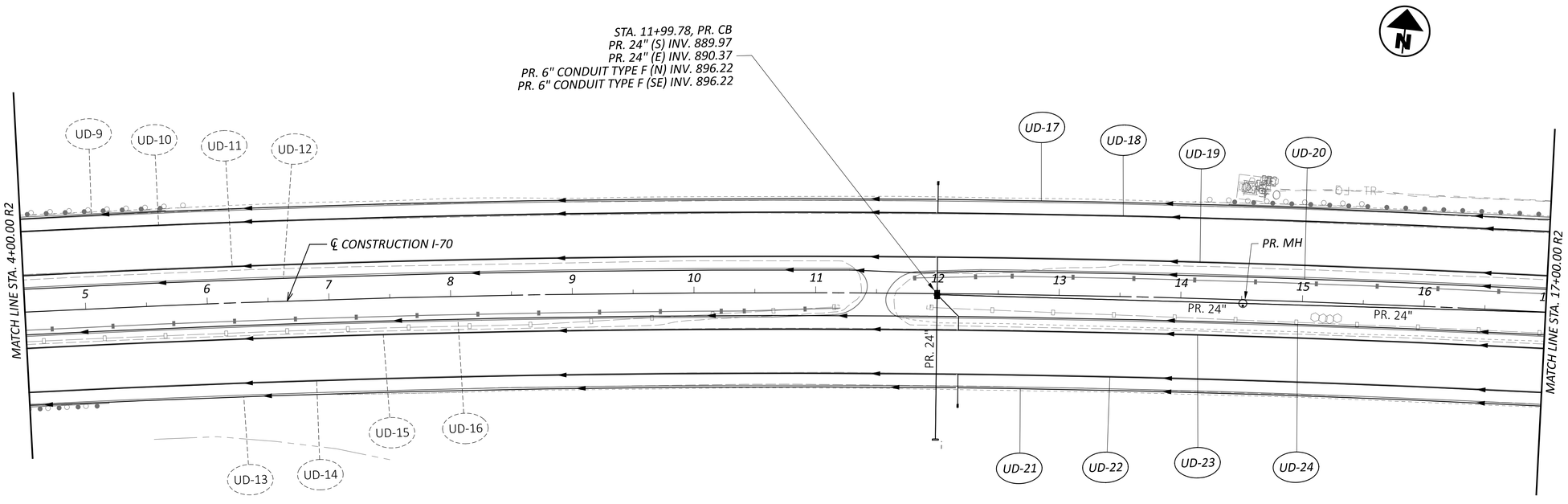

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

FRA-70-0.00

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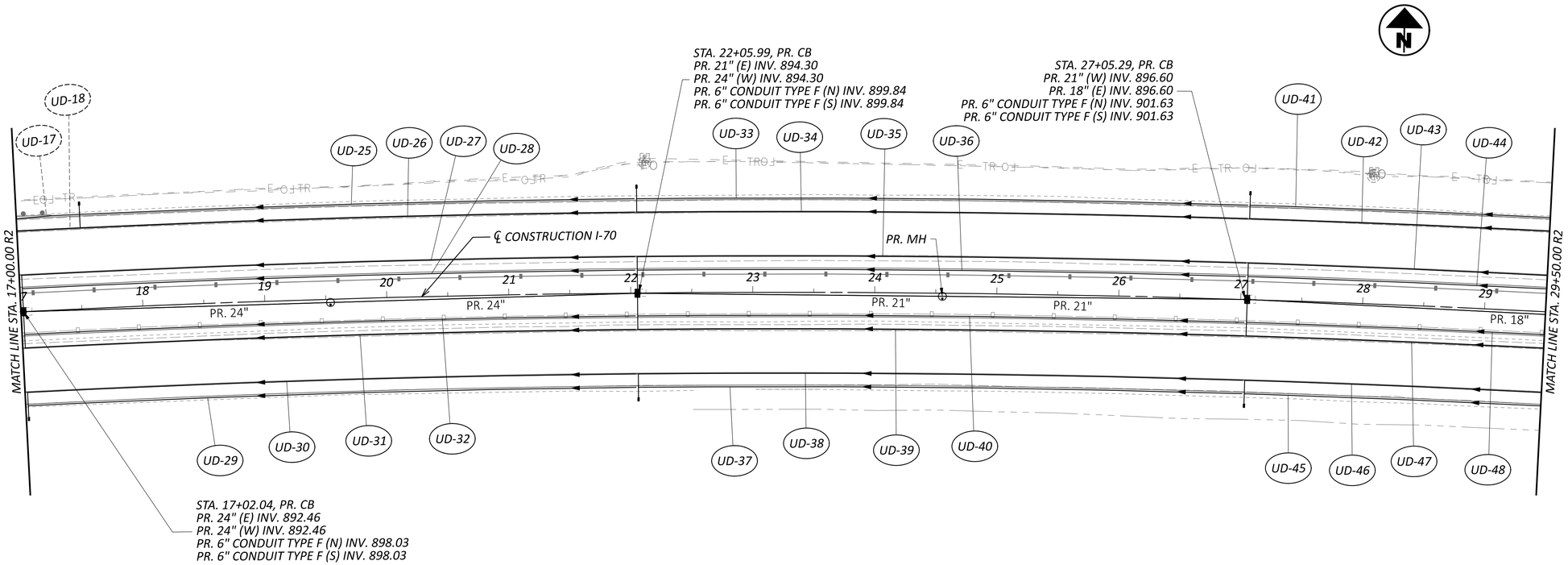
DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM
MOODY ENGINEERING

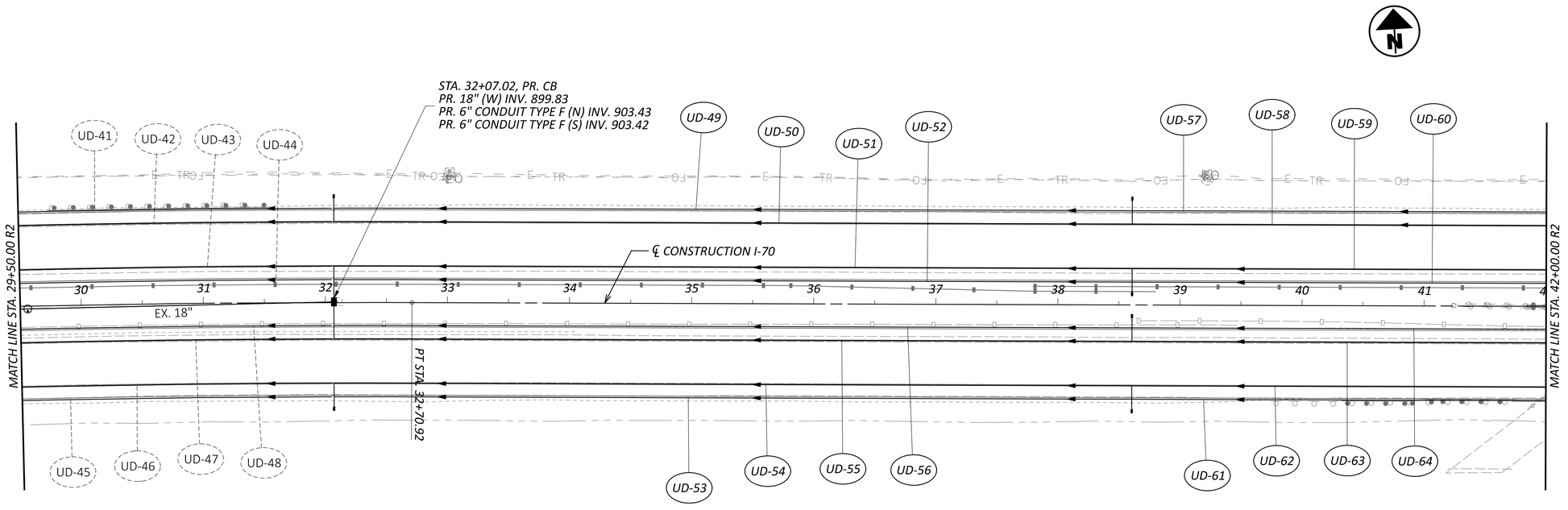
DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.475 TOTAL 577





HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER: CNK
REVIEWER: LET 08-14-24
PROJECT ID: 116949
SHEET: P.476 TOTAL: 577

FRA-70-0.00

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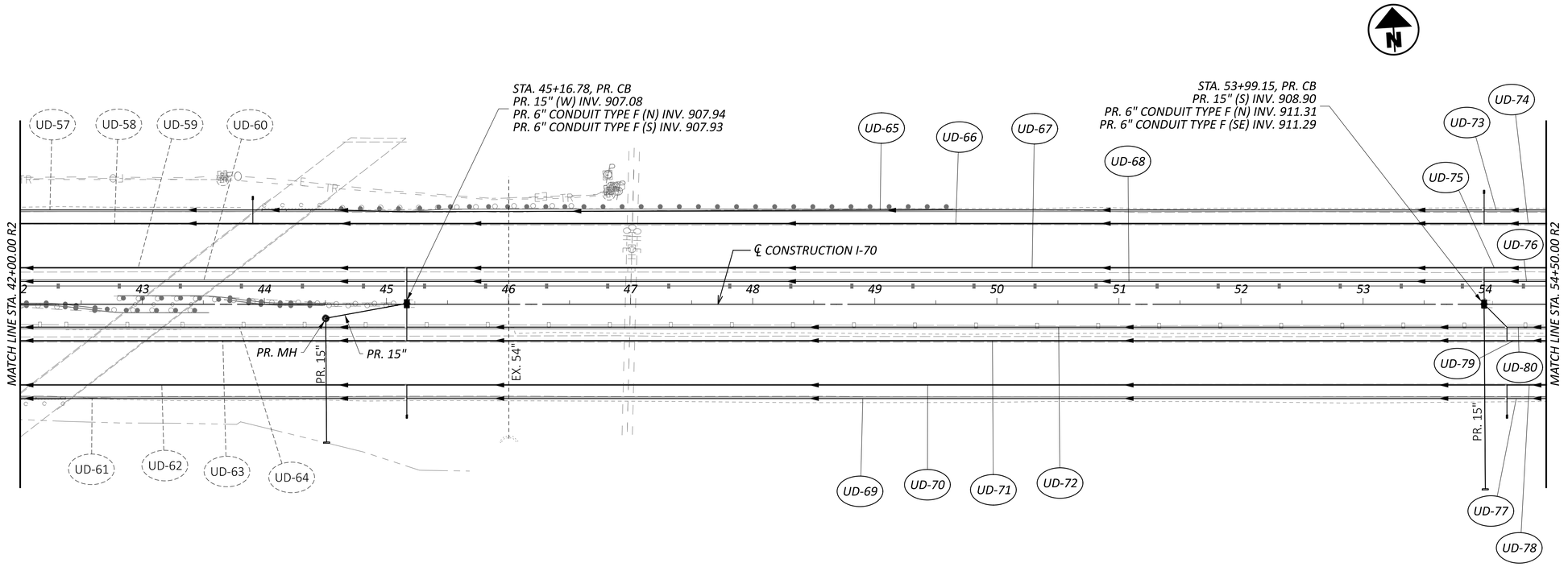

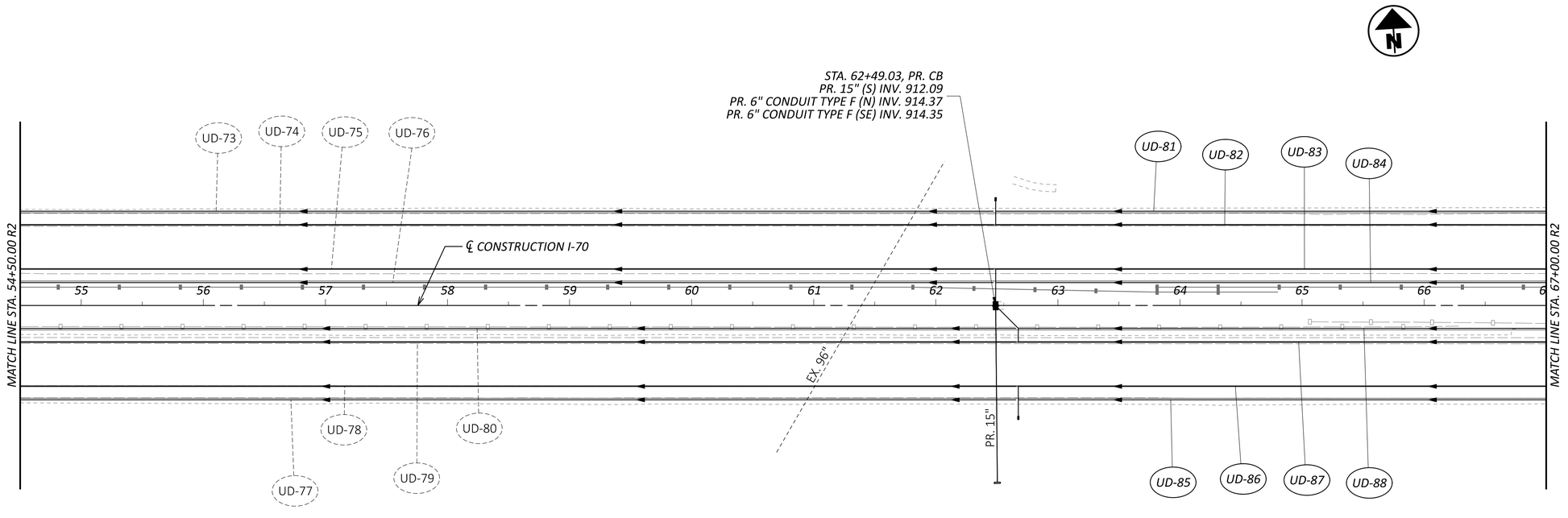

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

FRA-70-0.00

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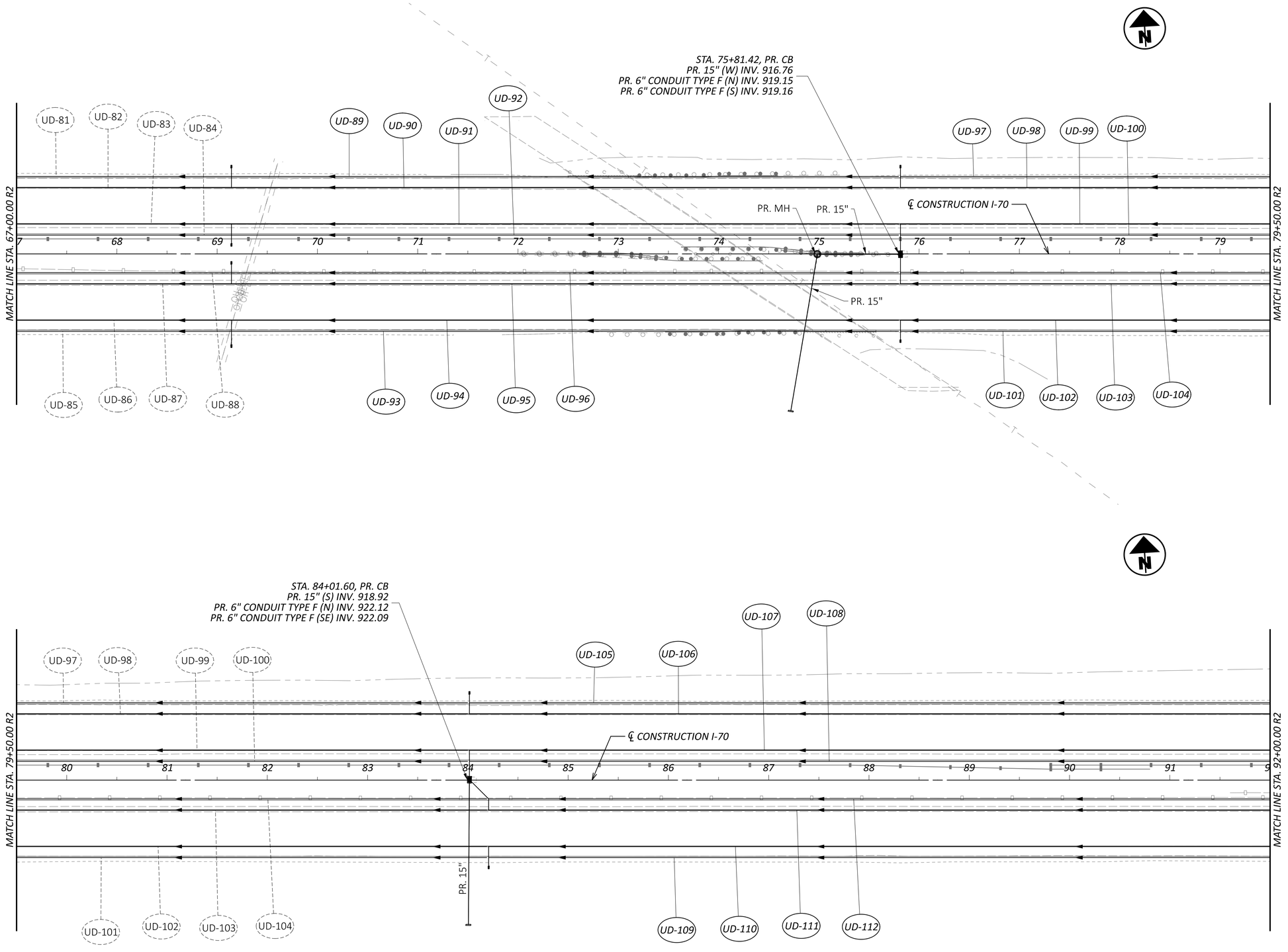
DESIGN AGENCY
MOODY ENGINEERING
250 SPRUCE STREET SUITE 200 COLUMBUS, OHIO 43215 P: 614 280 8999 MOODY-ENG.COM

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.477 TOTAL 577



HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614.280.8899
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.478 TOTAL 577

FRA-70-0.00

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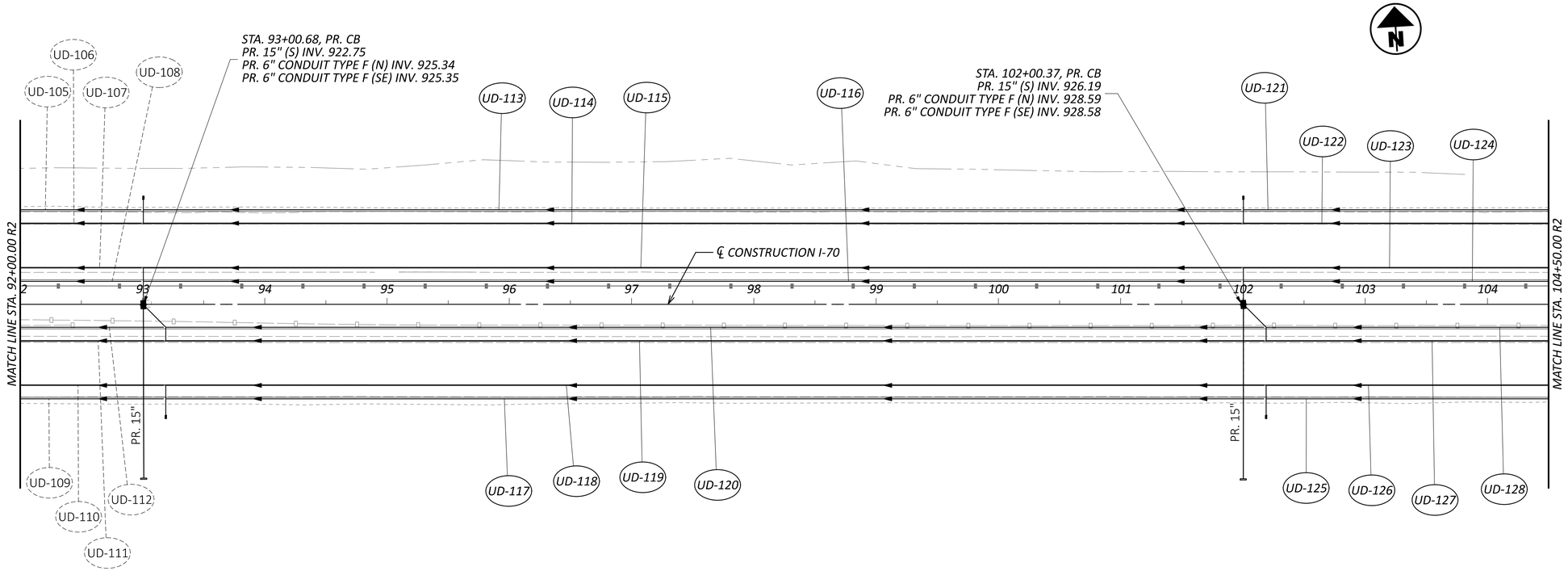

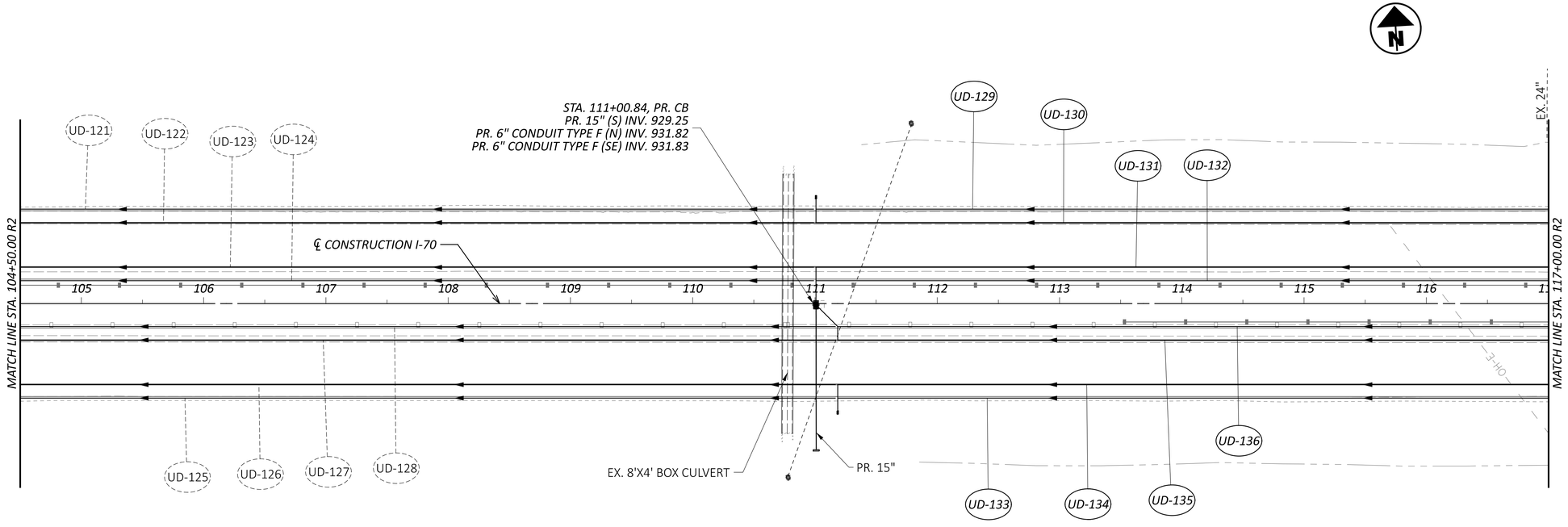

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614.280.8999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.479 TOTAL 577

FRA-70-0.00

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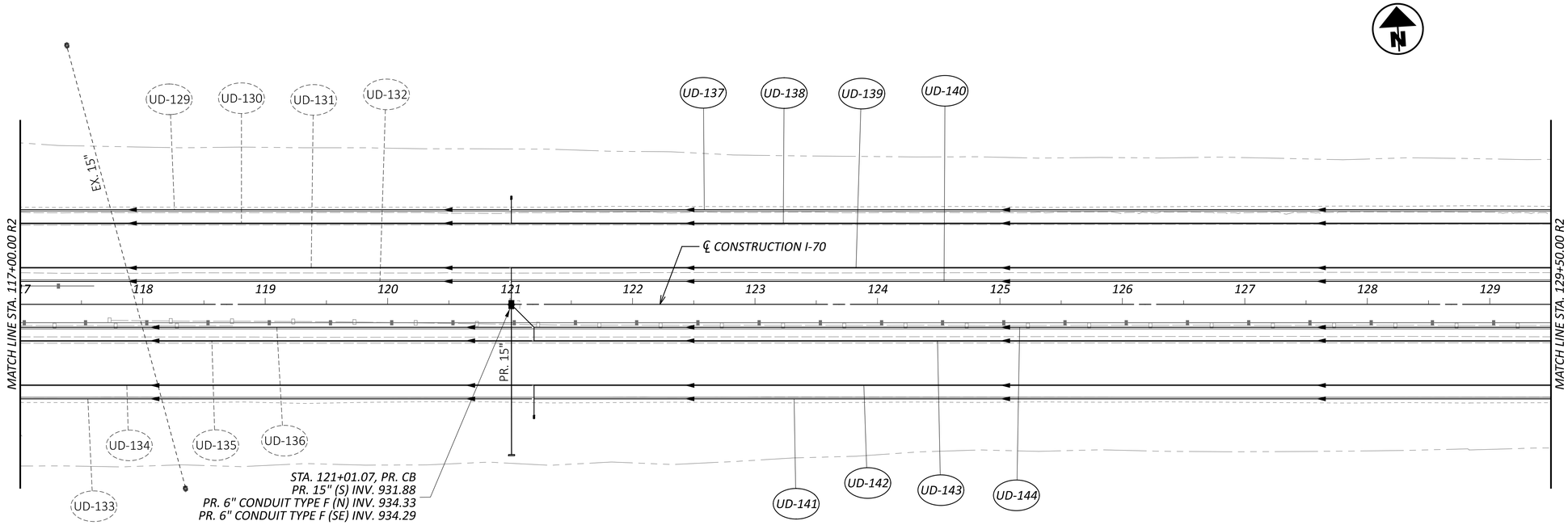

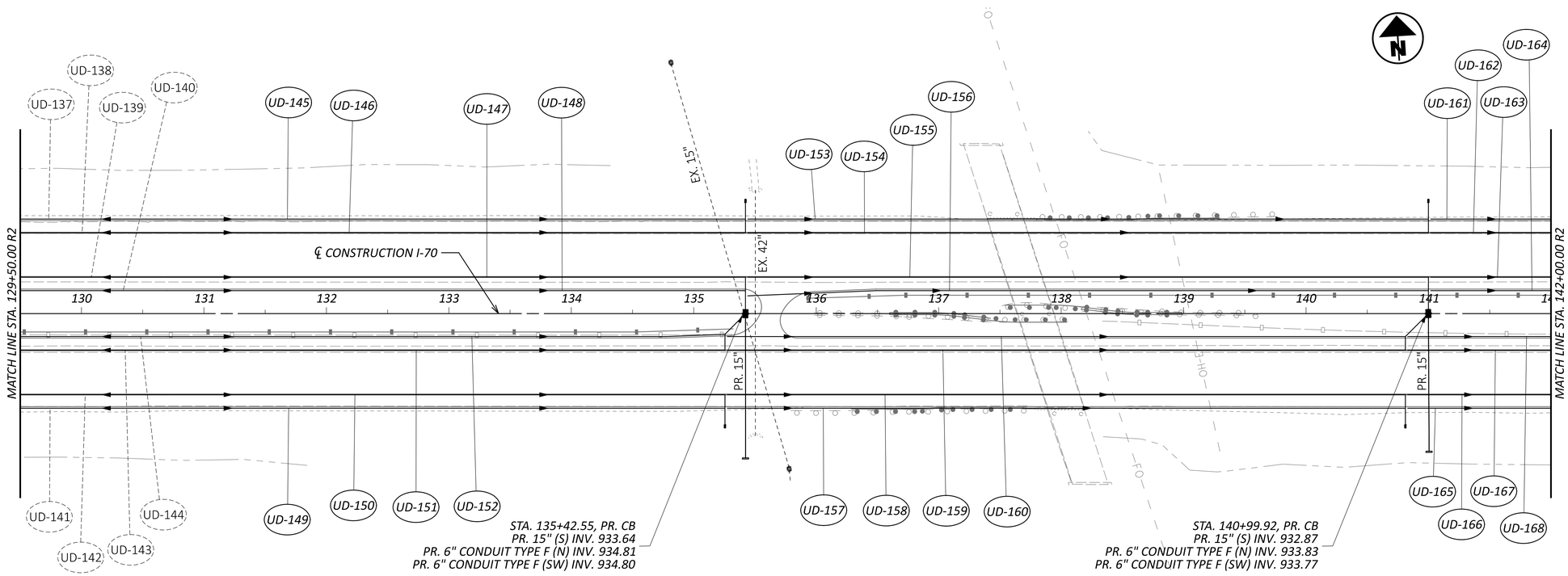

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614-280-8999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.480 TOTAL 577

FRA-70-0.00

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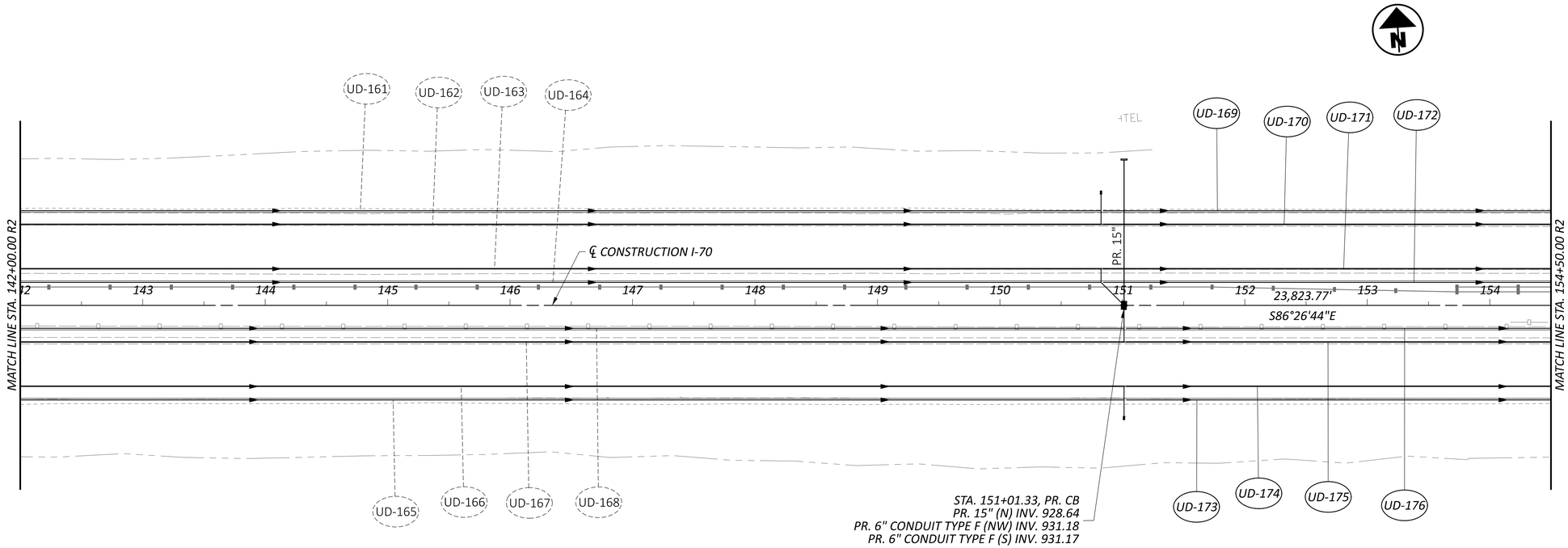

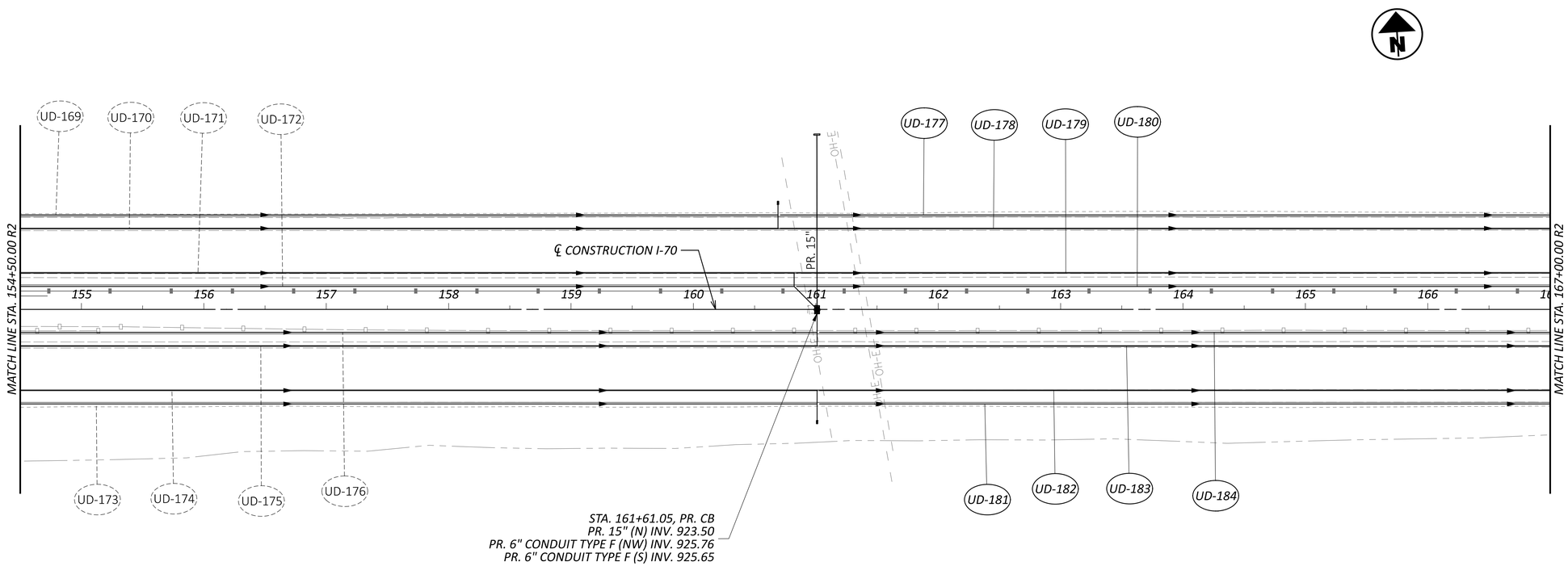

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614.280.8999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.481 TOTAL 577

FRA-70-0.00

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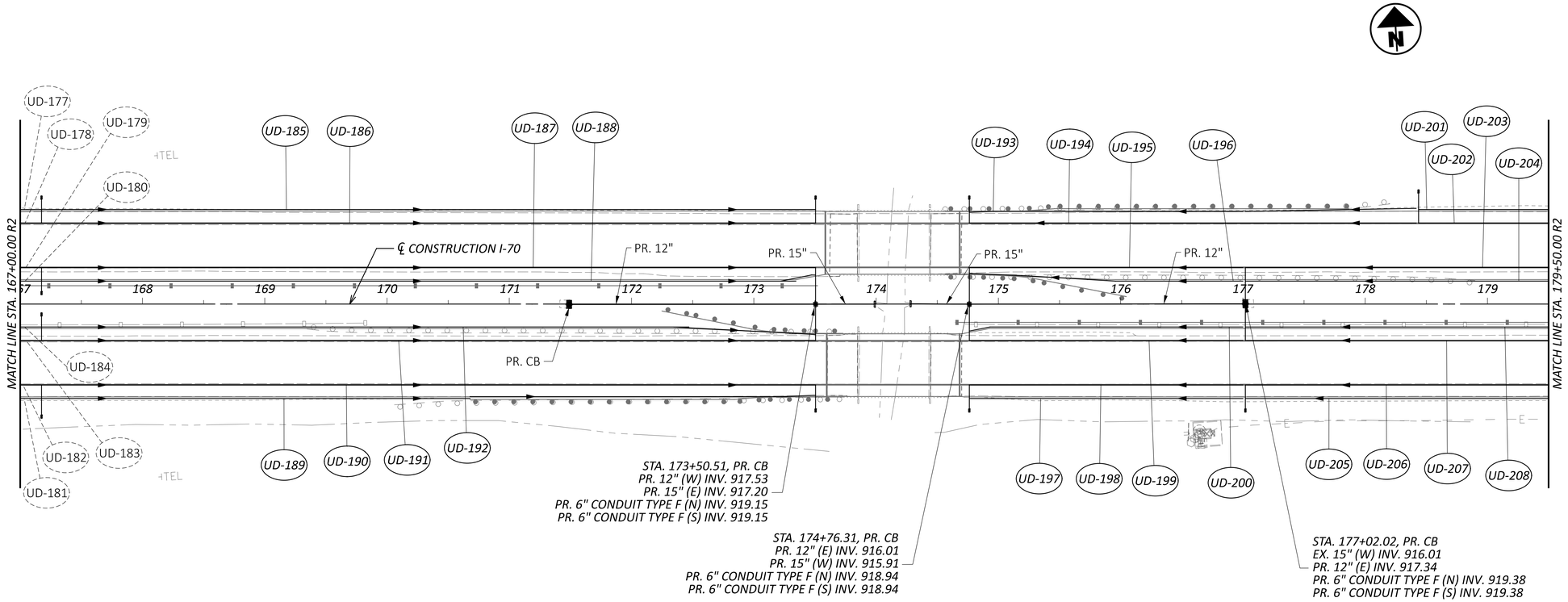

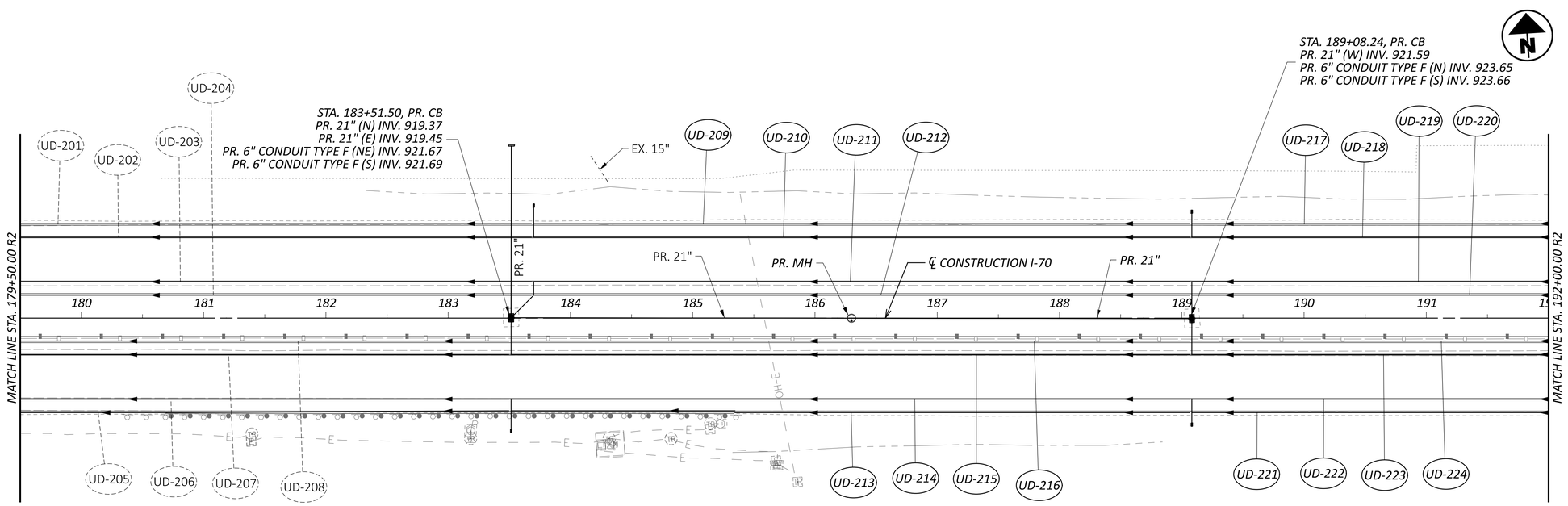

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614.280.8999
MOODY-ENG.COM

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.482 TOTAL 577

FRA-70-0.00

MODEL: CLP_I070 - Plan 15 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 2:37:39 PM USER: ckline
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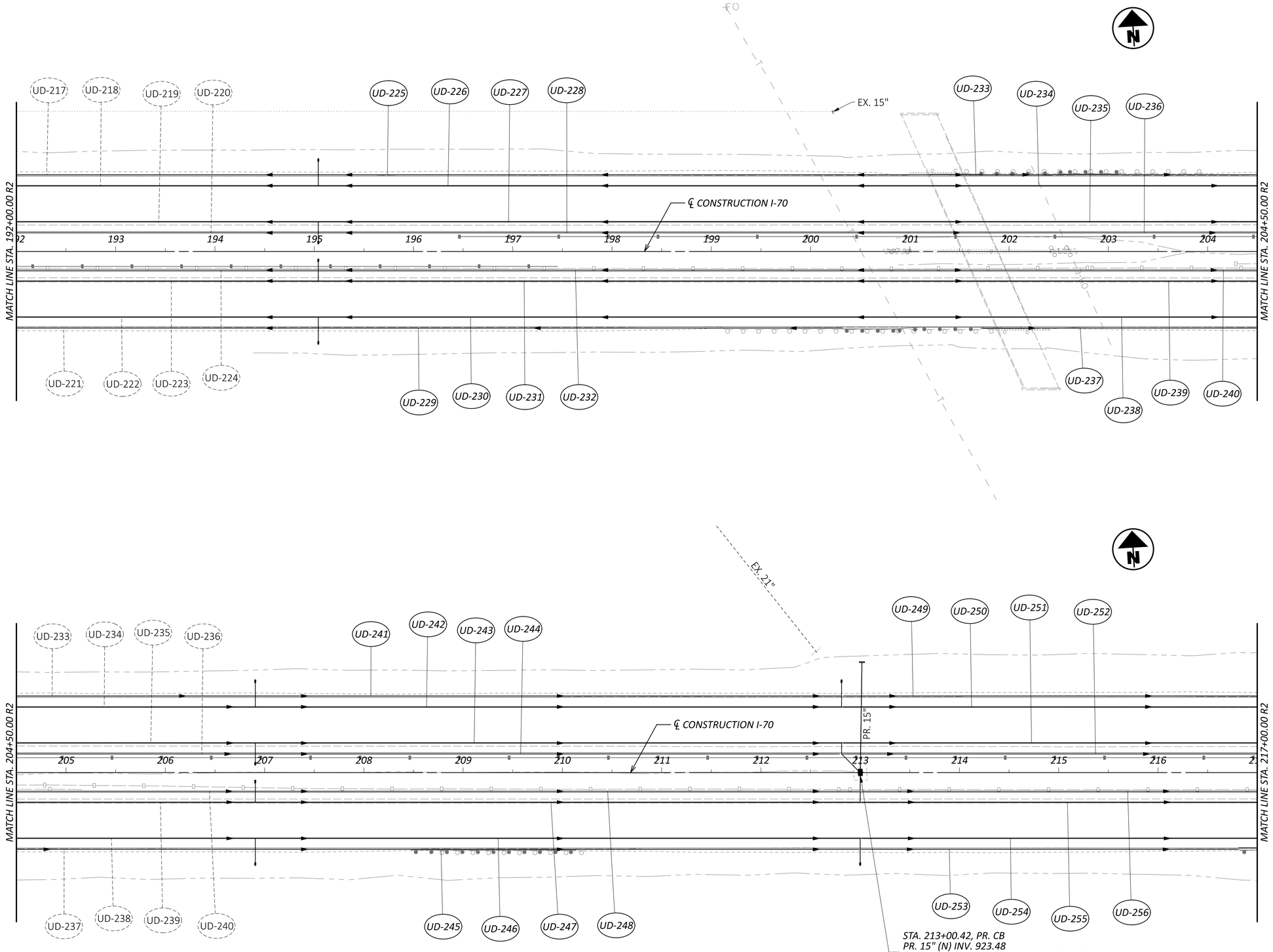

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.483 TOTAL 577

FRA-70-0.00

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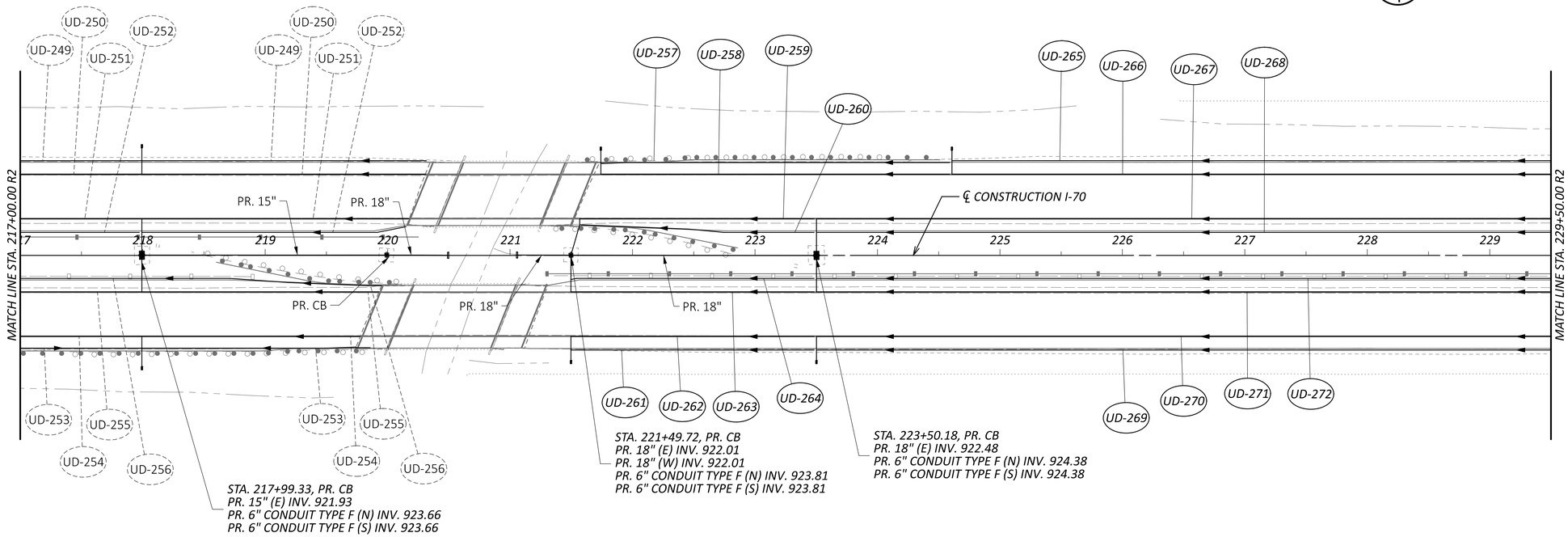

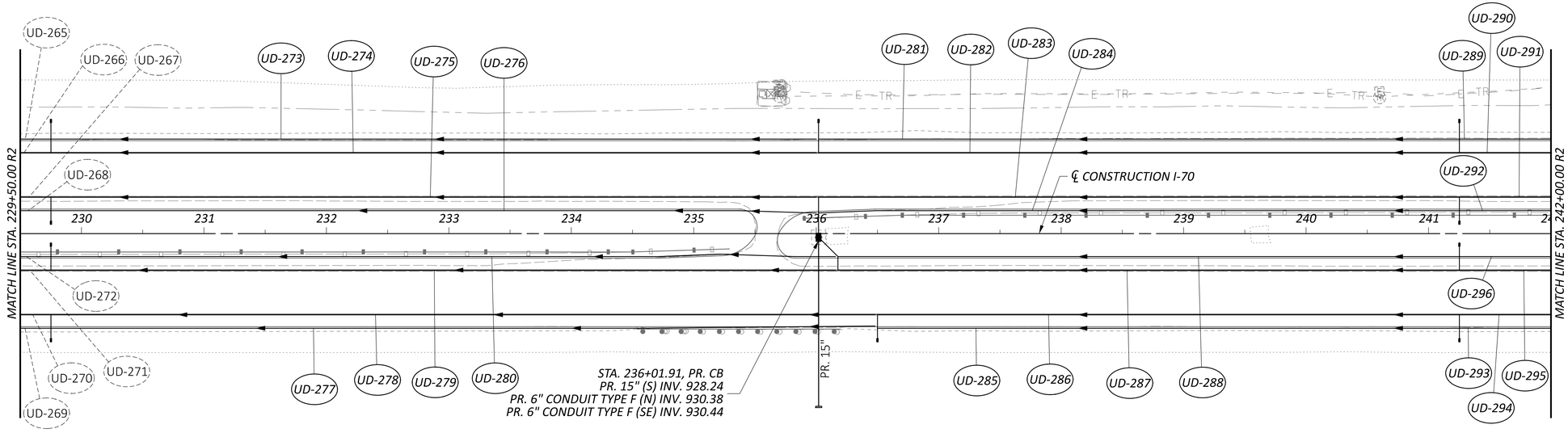

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

FRA-70-0.00

MODEL: CLP_I070 - Plan 19 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 2:40:06 PM USER: ckline
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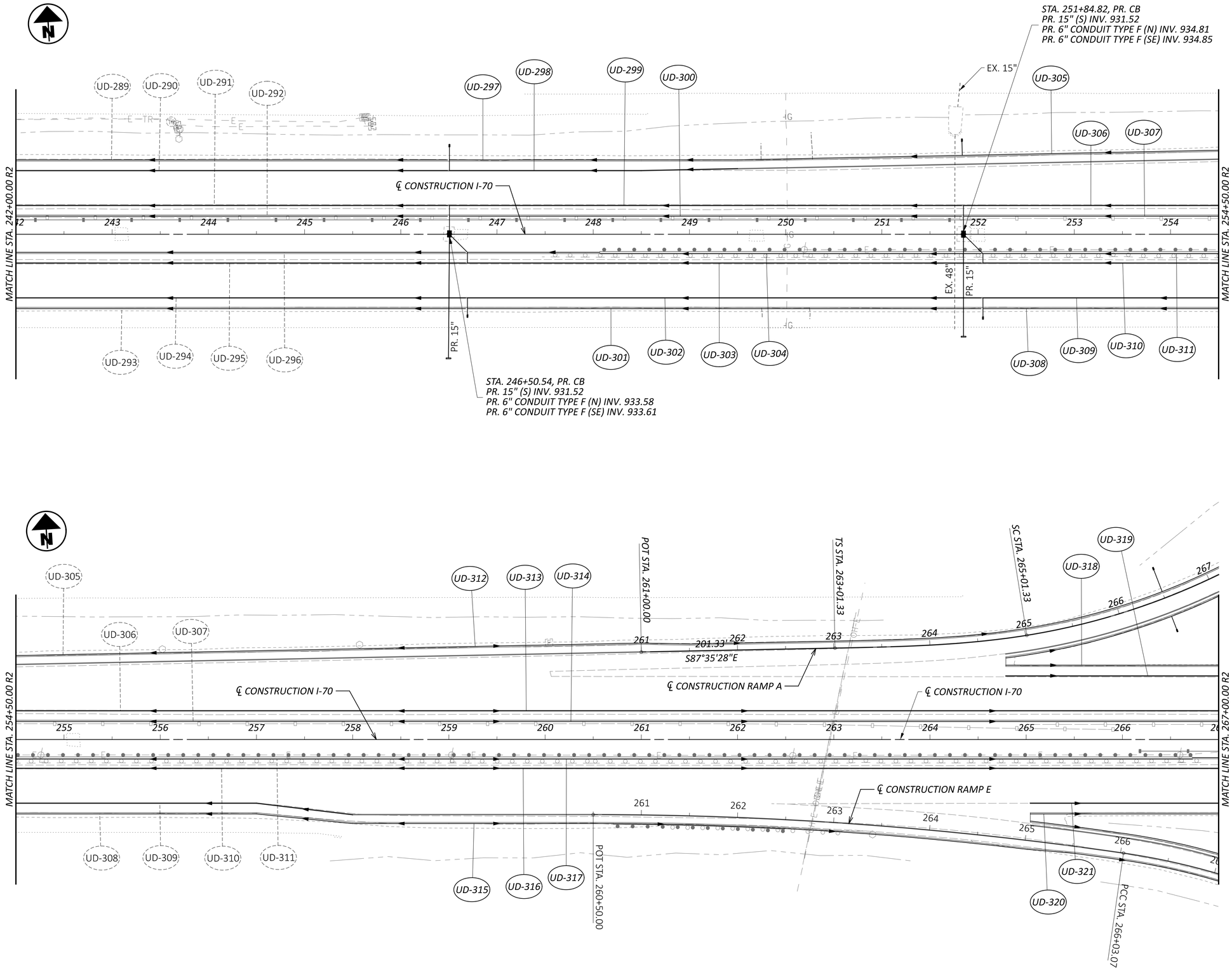
DESIGN AGENCY
300 SPRUCE STREET
SUITE 202
COLUMBUS, OHIO 43215
P: 614 280 8900
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.484 TOTAL 577



HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

FRA-70-0.00

MODEL: CLP_I070 - Plan 21 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 2:41:20 PM USER: ckline
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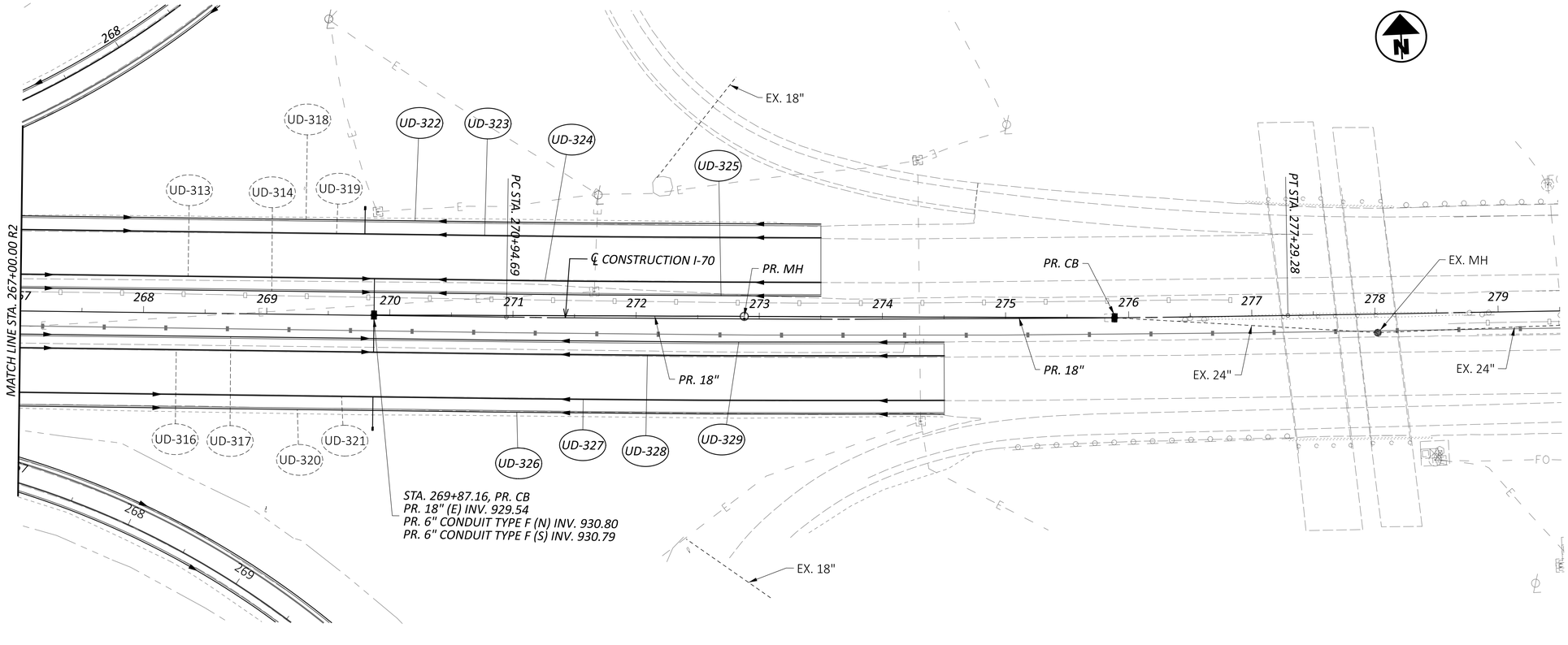
DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200 COLUMBUS, OHIO 43215
P: 614 280 8899
MOODY-ENG.COM

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.485 TOTAL 577



HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

FRA-70-0.00

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DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614.280.8989
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.486 | TOTAL 577

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

FRA-70-0.00

MODEL: BLP_R070A - Ramp A 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 2:56:31 PM USER: ckline
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DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 205
COLUMBUS, OHIO 43215
P: 614 360 9999
MOODY-ENG.COM

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.487 TOTAL 577

HORIZONTAL SCALE IN FEET
0 25 50 100

UNDERDRAIN DETAILS

FRA-70-0.00

MODEL: CLK_R070E - Ramp E-1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 2:58:34 PM USER: ckline
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DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614-280-8999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER: CNK
REVIEWER: LET 08-14-24
PROJECT ID: 116949
SHEET: P.488 TOTAL: 577

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) MILE	621 RPM EA		SS-807 WET REFLECTIVE THERMOPLASTIC, EDGE LINE, WHITE, 6" MILE	SS-807 WET REFLECTIVE THERMOPLASTIC, EDGE LINE, YELLOW, 6" MILE	SS-807 WET REFLECTIVE THERMOPLASTIC, LANE LINE, 6" MILE	SS-807 WET REFLECTIVE THERMOPLASTIC, CHANNELIZING LINE, 12" FT	SS-807 WET REFLECTIVE THERMOPLASTIC, DOTTED LINE, WHITE, 6" 3' LINE 9' GAP FT	SS-807 WET REFLECTIVE THERMOPLASTIC, DOTTED LINE, WHITE, 6" 2' LINE 6' GAP FT		SS-807 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, WHITE, 6" MILE	SS-807 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, YELLOW, 6" MILE	SS-807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6" MILE		SS-850 GROOVING FOR 6 INCH RECESSED PAVEMENT MARKING, ASPHALT MILE	SS-850 GROOVING FOR 12 INCH RECESSED PAVEMENT MARKING, ASPHALT FT	SS-850 GROOVING FOR 6 INCH RECESSED PAVEMENT MARKING, CONCRETE MILE
498 , 499	EY-1	I-70	771+12.00	820+95.36	RT					0.94											0.94		
498 , 499	LL-1	I-70	771+12.00	820+94.73	RT						0.94										0.94		
498 , 499	LL-2	I-70	771+12.00	820+94.45	RT						0.94										0.94		
498	DL-1	I-70	771+12.00	776+22.93	RT								511								0.10		
498	EW-1	I-70	771+12.00	779+24.84	RT				0.15												0.15		
498	CL-1	I-70	776+22.93	778+50.00	RT							227										227	
498	CL-2	I-70	776+22.93	779+27.81	RT							305										305	
498 , 499	LL-3	I-70	771+12.00	820+95.75	LT						0.94										0.94		
498 , 499	LL-4	I-70	771+12.00	820+95.64	LT						0.94										0.94		
498 , 499	EY-2	I-70	771+12.00	820+95.58	LT					0.94											0.94		
498	DL-2	I-70	771+12.00	776+12.00	LT								500								0.09		
498	EW-2	I-70	771+12.00	780+39.38	LT				0.18												0.18		
498	CL-3	I-70	776+12.00	780+41.02	LT							429										429	
498	CL-4	I-70	776+12.00	780+44.35	LT							432										432	
498	EW-3	I-70	778+50.00	795+00.00	RT				0.31												0.31		
498	EW-4	I-70	780+44.35	795+02.23	LT				0.28												0.28		
498	CL-5	I-70	795+00.47	799+43.83	RT							443										443	
498	CL-6	I-70	794+99.00	799+44.46	RT							445										445	
498	CL-7	I-70	795+02.23	799+77.15	LT							475										475	
498	CL-8	I-70	796+83.93	799+58.86	LT							275										275	
498 499	DL-3	I-70	799+43.83	810+00.00	RT								1056								0.20		
498 , 499	DL-4	I-70	799+77.15	805+08.73	LT								532								0.10		
498 , 499	EW-5	I-70	795+01.71	820+94.72	RT				0.49												0.49		
498 , 499	EW-6	I-70	796+88.72	820+96.00	LT				0.46												0.46		
499	EW-7	I-70	820+96.00	1+26.69	LT												0.05						0.05
499	LL-5	I-70	820+95.75	1+26.85	LT														0.05				0.05
499	LL-6	I-70	820+95.64	1+27.41	LT														0.05				0.05
499	EY-3	I-70	820+95.58	1+26.99	LT													0.05					0.05
499	EW-8	I-70	820+94.72	1+28.15	RT												0.05						0.05
499	LL-7	I-70	820+94.45	1+28.06	RT														0.05				0.05
499	LL-8	I-70	820+94.73	1+27.88	RT														0.05				0.05
499	EY-4	I-70	820+95.36	1+28.19	RT													0.05					0.05
499 - 506	EW-9	I-70	1+27.00	173+62.65	LT	3.26			3.26												3.26		
499 - 506	LL-9	I-70	1+27.00	173+62.46	LT		144				3.26										3.26		
499 - 506	LL-10	I-70	1+27.00	173+62.27	LT		144				3.26										3.26		
499 - 506	EY-5	I-70	1+27.00	173+62.07	LT	3.26				3.26											3.26		
499 - 506	EY-6	I-70	1+27.00	173+60.39	RT	3.26				3.26											3.26		
499 - 506	EW-10	I-70	1+27.00	173+60.06	RT	3.26			3.26												3.26		
499 - 506	LL-11	I-70	1+27.00	173+60.25	RT		144				3.26										3.26		
499 - 506	LL-12	I-70	1+27.00	173+60.14	RT		144				3.26										3.26		
506	EW-11	I-70	173+58.47	174+68.31	LT	0.02											0.02						0.02
506	LL-13	I-70	173+58.47	174+68.31	LT		1													0.02			0.02
506	LL-14	I-70	173+58.47	174+68.31	LT		1													0.02			0.02
506	EY-7	I-70	173+58.47	174+68.31	LT	0.02												0.02					0.02
506	EW-12	I-70	173+59.64	174+68.31	RT	0.02											0.02						0.02
506	LL-15	I-70	173+59.64	174+69.31	RT		1													0.02			0.02
506	LL-16	I-70	173+59.64	174+69.31	RT		1													0.02			0.02
506	EY-8	I-70	173+59.64	174+69.31	RT	0.02												0.02					0.02
506 - 508	EW-13	I-70	174+70.02	220+30.73	LT	0.86			0.86												0.86		
506 - 508	LL-17	I-70	174+69.67	220+25.98	LT		38				0.86										0.86		
506 - 508	LL-18	I-70	174+69.63	220+22.10	LT		38				0.86										0.86		
506 - 508	EY-9	I-70	174+69.55	220+17.61	LT	0.86				0.86											0.86		
TOTALS CARRIED TO SHEET 490						14.86	654		9.26	9.28	18.56	3,032	2,599			0.15	0.15	0.29		37.58	3,032	0.58	

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET SUITE 201 COLUMBUS, OHIO 43215 P: 614 280 8899 MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.489 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:01:45 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE) MILE	621 RPM EA		SS-807 WET REFLECTIVE THERMOPLASTIC, EDGE LINE, WHITE, 6" MILE	SS-807 WET REFLECTIVE THERMOPLASTIC, EDGE LINE, YELLOW, 6" MILE	SS-807 WET REFLECTIVE THERMOPLASTIC, LANE LINE, 6" MILE	SS-807 WET REFLECTIVE THERMOPLASTIC, CHANNELIZING LINE, 12" FT	SS-807 WET REFLECTIVE THERMOPLASTIC, DOTTED LINE, WHITE, 6" 3' LINE 9' GAP FT	SS-807 WET REFLECTIVE THERMOPLASTIC, DOTTED LINE, WHITE, 6" 2' LINE 6' GAP FT		SS-807 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, WHITE, 6" MILE	SS-807 WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, YELLOW, 6" MILE	SS-807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6" MILE		SS-850 GROOVING FOR 6 INCH RECESSED PAVEMENT MARKING, ASPHALT MILE	SS-850 GROOVING FOR 12 INCH RECESSED PAVEMENT MARKING, ASPHALT FT	SS-850 GROOVING FOR 6 INCH RECESSED PAVEMENT MARKING, CONCRETE MILE
506 - 508	EW-14	I-70	174+69.94	219+77.71	RT	0.85			0.85											0.85		
506 - 508	LL-19	I-70	174+69.88	219+82.47	RT		38				0.85									0.85		
506 - 508	LL-20	I-70	174+70.04	219+87.95	RT		38				0.86									0.86		
506 - 508	EY-10	I-70	174+70.05	219+19.82	RT	0.84				0.84										0.84		
508	EW-15	I-70	220+30.73	221+68.47	LT	0.03											0.03					0.03
508	LL-21	I-70	220+25.98	221+62.86	LT		1												0.03			0.03
508	LL-22	I-70	220+22.10	221+57.66	LT		1												0.03			0.03
508	EY-11	I-70	220+17.61	221+52.64	LT	0.03												0.03				
508	EW-16	I-70	219+77.71	221+15.33	RT	0.03											0.03					0.03
508	LL-23	I-70	219+82.47	221+19.54	RT		2												0.03			0.03
508	LL-24	I-70	219+87.95	221+24.07	RT		2												0.03			0.03
508	EY-12	I-70	219+19.82	221+28.77	RT	0.04												0.04				0.04
508 - 510	EW-17	I-70	221+66.17	264+76.79	LT	0.80			0.82											0.82		
508 - 511	LL-25	I-70	221+62.86	301+50.00	LT		67				1.51									1.51		
508 - 511	LL-26	I-70	221+57.66	301+50.00	LT		67				1.51									1.51		
508 - 511	EY-13	I-70	221+52.64	301+50.00	LT	0.98				1.51										1.51		
508 - 510	EW-18	I-70	221+13.11	265+02.42	RT	0.81			0.83											0.83		
508 - 511	LL-27	I-70	221+19.54	295+50.00	RT		44				1.41									1.41		
508 - 511	LL-28	I-70	221+24.07	290+05.00	RT		44				1.30									1.30		
508 - 511	EY-14	I-70	221+28.77	295+50.00	RT	1.01				1.41										1.41		
509 - 510	DL-5	I-70	248+50.00	256+50.00	LT								800							0.15		
510	DL-6	I-70	257+00.00	262+25.00	RT								525							0.10		
510	CL-9	I-70	256+50.00	264+78.89	LT							829									829	
510	CL-11	I-70	262+25.00	265+04.00	RT	0.02	8					279									279	
510	EW-19	I-70	264+79.00	274+66.00	LT	0.16			0.19											0.19		
510	EW-20	I-70	265+04.00	274+50.00	RT	0.18			0.18											0.18		
510	CL-12	I-70	274+66.00	277+35.00	LT	0.02	8					269									269	
510 - 511	CL-13	I-70	274+50.00	285+02.00	RT							1052									1052	
510	CL-14	I-70	274+66.00	277+35.00	LT							267									267	
510 - 511	CL-15	I-70	274+79.77	285+02.00	RT							1022									1022	
510 - 511	EW-21	I-70	274+66.00	284+70.00	LT				0.19											0.19		
510 - 511	DL-7	I-70	277+35.00	283+75.00	LT								640							0.12		
511	CL-16	I-70	284+70.00	301+50.00	LT							1680									1680	
511	CL-17	I-70	284+74.00	287+36.00	LT							267									267	
511	EW-22	I-70	284+70.00	301+50.00	LT				0.32											0.32		
511	EW-23	I-70	274+82.19	285+42.09	RT				0.20											0.20		
511	EW-24	I-70	285+63.86	295+50.00	RT				0.19											0.19		
511	CL-18	I-70	285+60.55	294+08.00	RT							855									855	
511	CL-19	I-70	285+02.00	294+07.53	RT							906									906	
511	DW-1	I-70	290+05.00	295+50.00	RT									545						0.10		
511	LL-28	I-70	285+02.00	295+50.00	RT						0.20									0.20		
511	DW-2	I-70	294+08.00	295+50.00	RT									142						0.03		
512	EW-25	RAMP A	264+77.20	278+06.46	RT/LT											0.27						0.27
512	EY-15	RAMP A	264+77.24	278+39.75	RT		15										0.26					0.26
513	CL-20	RAMP E	264+24.46	265+03.48	LT		7					280									280	
513	EY-16	RAMP E	265+03.48	277+90.44	LT		16										0.24					0.24
513	EW-26	RAMP E	265+03.48	277+90.44	RT/LT											0.24						0.24
TOTALS THIS SHEET						5.80	357		3.76	3.76	7.65	7,706	1,965	687		0.56	0.57	0.10		15.68	7,706	1.21
TOTALS CARRIED TO GENERAL SUMMARY						**20.66**	**1,012**		**13.02**	**13.04**	**26.20**	**10,738**	**4,564**	**687**		**0.71**	**0.71**	**0.39**		**53.26**	**10,738**	**1.79**

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 201
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY4ME.COM

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.490 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:03:27 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED PIPE SUPPORT AND DISPOSAL	630 REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-15.115										
						EA	EA	EA	EA	EA	EA	EA										
500	SR-1	I-70	11+28.49		RT/LT	2		2														
500	SR-2	I-70	11+74.27		RT/LT	2		2														
501	SR-3	I-70	50+95.26		RT	2		2														
501	SR-4	I-70	50+97.53		LT	1		1														
502	SR-5	I-70	74+64.86		RT	1			2													
504	SR-6	I-70	105+21.58		RT	1		1														
505	SR-7	I-70	135+48.15		RT/LT	2		2														
506	SR-8	I-70	156+26.44		RT	1		1														
506	SR-9	I-70	156+15.96		LT	1		2														
506	SR-10	I-70	156+15.44		LT	1		1														
506	SR-11	I-70	172+66.32		RT	1		2														
506	SR-12	I-70	175+39.94		LT	1			2													
507	SR-13	I-70	187+18.24		LT	2		1														
507	SR-14	I-70	197+71.20		RT/LT	2		1														
507	SR-15		200+05.93		RT	1		2														
508	SR-16	I-70	208+57.53		RT	1		1														
508	SR-17	I-70	208+55.44		LT	1		1														
508	SR-18	I-70	208+59.10		RT/LT	2		1														
508	SR-19	I-70	219+90.88		RT/LT	2		1														
508	SR-20	I-70	222+98.28		LT	1		2														
509	SR-21	I-70	229+90.28		RT/LT	2		1														
509	SR-22	I-70	235+36.46		RT/LT	2		2														
509	SR-23	I-70	235+86.27		RT/LT	2		2														
509	SR-24	I-70	240+43.37		RT/LT	2		2														
509	SR-25	I-70	244+05.02		LT	2		2														
509	SR-26	I-70	246+87.42		RT	1		2														
509	SR-27	I-70	247+03.04		LT	1		1														
509	SR-28	I-70	250+69.32		RT/LT	2		1														
509	SR-29	I-70	252+91.92		RT	1		2														
509	SR-30	I-70	252+90.04		RT	1		2														
510	SR-31	I-70	261+52.02		RT	1		1														
510	SR-32	I-70	262+38.60		RT						2	1										
510	SR-33	I-70	261+56.27		LT	1		2														
510	SR-34	I-70	261+59.80		LT	2		2														
510	SR-35	I-70	271+79.07		RT/LT	2		1														
511	SR-36	I-70	288+27.48		LT						2	1										
512	SR-37	I-70	265+54.77		LT	1		2														
513	SR-38	RAMP E	263+94.17		RT	1		2														
513	SR-39	RAMP E	265+79.02		LT	1				1												
513	SR-40	RAMP E	266+16.05		LT	2		2														
513	SR-41	RAMP E	266+16.87		RT	2		2														
513	SR-42	RAMP E	268+46.40		RT	1		2														
513	SR-43	RAMP E	270+08.11		RT		1	2	2													
513	SR-44	RAMP E	271+08.24		LT		1	2	2													
513	SR-45	RAMP E	272+08.34		RT		1	2	2													
513	SR-46	RAMP E	274+16.56		RT		1	2	2													
513	SR-47	RAMP E	274+92.78		RT		1	1														
513	SR-48	RAMP E	276+12.89		RT		1	2	2													
513	SR-49	RAMP E	277+38.14		RT	2		2														
TOTALS CARRIED TO GENERAL SUMMARY						60	6	72	14	1	4	2										

SIGNAGE REMOVAL SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200,
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.491 TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:05:10 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	OFFSET TO SIGN CENTER	CODE	SIZE (INCHES)	625 GROUND ROD EA	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT		630 GROUND MOUNTED SUPPORT, NO. 3 POST FT		630 GROUND MOUNTED SUPPORT, NO. 4 POST FT		630 GROUND MOUNTED SUPPORT, NO. 6 POST FT		630 GROUND MOUNTED STRCUTURAL BEAM SUPPORT, S4 X 7.7 FT		630 GROUND MOUNTED STRCUTURAL BEAM SUPPORT, W6 X 9 FT		630 GROUND MOUNTED STRCUTURAL BEAM SUPPORT, W10 X 12 FT		630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2 EA	630 SIGN, FLAT SHEET SF	630 SIGN, GROUND MOUNTED EXTRUSHEET SF	630 SIGN, OVERHEAD EXTRUSHEET SF	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION EA	630 GROUND MOUNTED PIPE SUPPORT FOUNDATION EA	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION EA
500	S-1	I-70	11+32.00		RT	4.0	R3-4-36	36" X 36"				15.7	15.4												9.0					
							R5-H11-24	24" X 30"																	5.0					
500	S-2	I-70	11+68.00		LT	4.0	R3-4-36	36" X 36"				15.4	15.7												9.0					
							R5-H11-24	24" X 30"																	5.0					
501	S-3	I-70	51+00.00		RT	85.4	D10-2-12	12" X 36"				13.6	13.7												3.0					
							D14-H4-48	48" X 30"																	10.0					
501	S-4	I-70	51+00.00		LT	82.5	D10-2-12	12" X 36"		14.0															3.0					
502	S-5	I-70	74+65.00		RT	89.0	E7-H1-168	72" X 24"												17.9	18.3					70.0		2.0		
504	S-6	I-70	105+25.00		RT	82.5	D10-2-12	12" X 36"		14.2															3.0					
505	S-7	I-70	135+40.00		RT	7.0	R3-4-36	36" X 36"				15.2	14.9												9.0					
							R5-H11-24	24" X 30"																	5.0					
505	S-8	I-70	135+83.00		LT	5.0	R3-4-36	36" X 36"				15.2	15.6												9.0					
							R5-H11-24	24" X 30"																	5.0					
506	S-9	I-70	156+20.00		RT	82.5	D10-2-12	12" X 36"		14.7															3.0					
506	S-10	I-70	156+20.00		LT	91.3	D14-H4-48	48" X 30"		14.5	14.2														10.0					
506	S-11	I-70	156+20.00		LT	82.5	D10-2-12	12" X 36"		14.2															3.0					
506	S-12	I-70	172+50.00		RT	85.0	D14-H4-48	48" X 30"		13.9	14.2														10.0					
506	S-13	I-70	175+50.00		LT	87.8	D12-H22-120	120" X 48"												17.3	16.9					40.0		2.0		
507	S-14	I-70	187+18.00		RT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
507	S-15	I-70	197+71.00		RT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
507	S-16	I-70	200+00.00		RT	86.5	D12-2-96	96" X 66"								16.8	17.2								44.0					
508	S-17	I-70	208+59.00		RT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
508	S-18	I-70	208+59.00		LT	82.5	D10-2-12	12" X 36"		14.2															3.0					
508	S-19	I-70	208+59.00		RT	82.5	D10-2-12	12" X 36"		14.2															3.0					
508	S-20	I-70	219+90.00		LT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
508	S-21	I-70	223+00.00		LT	84.0	R2-1-48	48" X 60"												16.4	16.0				20.0					
509	S-22	I-70	229+90.00		RT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
509	S-23	I-70	235+40.00		RT	4.0	R3-4-36	36" X 36"				15.7	15.4												9.0					
							R5-H11-24	24" X 30"																	5.0					
509	S-24	I-70	235+80.00		LT	4.0	R3-4-36	36" X 36"				15.4	15.7												9.0					
							R5-H11-24	24" X 30"																	5.0					
509	S-25	I-70	240+50.00		RT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
509	S-26	I-70	244+00.00		LT	83.5	M3-4-36	36" X 18"				16.0	15.7												4.5					
							M1-1-36-2																		9.0					
509	S-27	I-70	247+00.00		RT	85.0	I-H2a-72	72" X 36"				14.0	14.7												18.0					
509	S-28	I-70	247+00.00		LT	83.5	I-H2c-36	36" X 24"				13.3													6.0					
509	S-29	I-70	251+00.00		RT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
509	S-30	I-70	253+00.00		RT	12.0	R2-1-48	48" X 60"												16.5	16.0				20.0					
509	S-31	I-70	253+00.00		RT	84.0	R2-1-48	48" X 60"												16.0	16.4				20.0					
510	S-32	I-70	262+30.00		RT				2.0															1.0			142.3			2.0
510	S-33	I-70	262+30.00		RT																				113.5					
510	S-34	I-70	261+50.00		RT	82.5	D10-2-12	12" X 36"		14.2															3.0					
510	S-35	I-70	261+50.00		LT	12.0	R4-16-48	48" X 60"												16.0	16.4				20.0					
510	S-36	I-70	261+50.00		RT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
510	S-37	I-70	271+80.00		RT	3.0	D10-5-18	18" X 60"								17.7									7.5					
							D10-5-18	18" X 60"																	7.5					
511	S-38	I-70	288+50.00		RT				2.0															1.0			159.0			2.0
511	S-39	I-70	288+50.00		RT																				150.5					
TOTALS CARRIED TO SHEET 493									4	156		286		130		193				70				2	435	110	565	4		4

SIGNAGE SUBSUMMARY

DESIGN AGENCY
300 SPRUCE STREET
SUITE 205
COLUMBUS, OHIO 43215
P: 614 280 9999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.492 | TOTAL 577

FRA-70-0.00

MODEL: TS001 PAPERSIZE: 34x22 (in.) DATE: 1/27/2025 TIME: 4:50:00 PM USER: ckline
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SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	OFFSET TO SIGN CENTER	CODE	SIZE (INCHES)	625 GROUND ROD EA	630 GROUND MOUNTED SUPPORT, NO. 2 POST FT		630 GROUND MOUNTED SUPPORT, NO. 3 POST FT		630 GROUND MOUNTED SUPPORT, NO. 4 POST FT		630 GROUND MOUNTED SUPPORT, NO. 6 POST FT		630 GROUND MOUNTED STRCUTURAL BEAM SUPPORT, S4 X 7.7 FT		630 GROUND MOUNTED STRCUTURAL BEAM SUPPORT, W6 X 9 FT		630 GROUND MOUNTED STRCUTURAL BEAM SUPPORT, W10 X 12 FT		630 GROUND MOUNTED SUPPORT, PIPE EA	630 SIGN POST REFLECTOR EA	630 OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2 EA	630 SIGN, FLAT SHEET SF	630 SIGN, GROUND MOUNTED EXTRUSHEET SF	630 SIGN, OVERHEAD EXTRUSHEET SF	630 GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION EA	630 GROUND MOUNTED PIPE SUPPORT FOUNDATION EA	630 RIGID OVERHEAD SIGN SUPPORT FOUNDATION EA
512	S-40	I-90	265+50.00		RT	84.83	W4-1R-48	48" X 48"				15.9	15.6														16.0					
513	S-41	RAMP E	264+00.00		RT	18	D14-H4-48	48" X 30"		14.0	14.0																	10.0				
513	S-42	RAMP E	265+42.00		LT	26.39	E5-H1c-48	48" X 84"																1.0			28.0				1.0	
513	S-43	RAMP E	266+15.00		LT	29.93	R5-1-48	48" X 48"																	2.0		16.0					
							R5-1a-42	42" X 30"						14.5	14.4												8.8					
513	S-44	RAMP E	266+15.00		RT	14.07	R5-1-48	48" X 48"																	2.0		16.0					
							R5-1a-42	42" X 30"						14.9	15.1												8.8					
513	S-45	RAMP E	268+50.00		RT	14.83	W3-3-48	48" X 48"				15.5	15.7														16.0					
513	S-46	RAMP E	277+40.00		RT		R5-1a-42	42" X 30"				13.3	13.5												2.0		8.8					
							R5-1a-42	42" X 30"																			8.8					
513	SX1	RAMP E	270+10.00		RT	16		180" X 120"														20.9	21.8						2.0		
513	SX-2	RAMP E	271+08.00		LT	32		180" X 120"														21.7	20.9						2.0		
513	SX-3	RAMP E	272+05.00		RT	16		180" X 120"														21.2	22.1						2.0		
513	SX-4	RAMP E	274+13.00		RT	18		72" X 18"										13.7	14.3												
513	SX-5	RAMP E	274+95.00		RT	18		30" X 30"				15.3																			
513	SX-6	RAMP E	276+15.00		RT	16		180" X 120"														20.5	21.5						2.0		
TOTALS THIS SHEET										28		105		59				28				171		1	6		127	10		8	1	
TOTALS CARRIED TO GENERAL SUMMARY									4	184		391		188		193		28		70		171		1	6	2	562	120	565	12	1	4

SIGNAGE SUBSUMMARY

FRA-70-0.00

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DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614 280 8899
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK

REVIEWER LET 08-14-24

PROJECT ID 116949

SHEET P.493 TOTAL 577

TRAFFIC CONTROL GENERAL NOTES

REFERENCE LOCATIONS SIGNS

THE LOCATION OF REFERENCE LOCATION SIGNS ON THE PLANS ARE APPROXIMATE AND A MORE PRECISE LOCATION WILL BE PROVIDED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 30 DAYS IN ADVANCE OF THE PLANNED DATE OF REFERENCE LOCATION SIGN INSTALLATION. THE ENGINEER WILL CONTACT THE OFFICE OF TECHNICAL SERVICES WHICH WILL LOCATE THE LONGITUDINAL POSITION OF REFERENCE LOCATION SIGNS BY MEANS OF A PAINT MARK ON THE PAVEMENT EDGE. ALTERNATE MARKS WILL NOT BE PROVIDED ON DIVIDED HIGHWAYS AND THE CONTRACTOR SHALL SET REFERENCE LOCATION SIGNS FOR THE OPPOSITE ROADWAY ACROSS FROM THE PROVIDED MARK. DELINEATORS WHOSE NORMAL POSITION FALLS WITHIN 50 FEET OF A REFERENCE LOCATION SIGN SHALL BE OMITTED.

SIGN SHOP DRAWINGS

THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF SIGN SHOP DRAWINGS TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF FOUR WEEKS PRIOR TO THE BEGINNING OF FABRICATION.

ITEM 621 - RAISED PAVEMENT MARKERS (RPM)

RAISED PAVEMENT MARKERS (RPM) SHALL BE INSTALLED PER TC-65.10 AND TC-65.11.

FOR LANE LINES, INSTALL 1-WAY (WHITE) RPMS AT A SPACING OF 120 FEET CENTER TO CENTER.

FOR CHANNELIZING LINES , INSTALL 2-WAY (WHITE/RED) RPMS AT A SPACING OF 40 FEET CENTER TO CENTER.

FOR YELLOW RAMP EDGE LINES, INSTALL 2-WAY (YELLOW/RED) AT A SPACING OF 80 FEET CENTER TO CENTER.

SS-807 WET REFLECTIVE LIQUID APPLIED PAVEMENT MARKINGS

ALL PAVEMENT MARKINGS SHALL BE WET REFLECTIVE PER ODOT SUPPLEMENTAL SPECIFICATION 807. PAVEMENT MARKINGS ON CONCRETE BRIDGES AND RAMPS SHALL BE WET REFLECTIVE EPOXY. ROADWAY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TRAFFIC PAINT.

GROOVING PER ODOT SUPPLEMENTAL SPECIFICATION 850 IS REQUIRED FOR ALL RECESSED PAVEMENT MARKINGS.

TRAFFIC CONTROL
GENERAL NOTES

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER
CNK

REVIEWER
LET 08-14-24

PROJECT ID
116949

SHEET P.494 TOTAL 577

FRA-70-0.00

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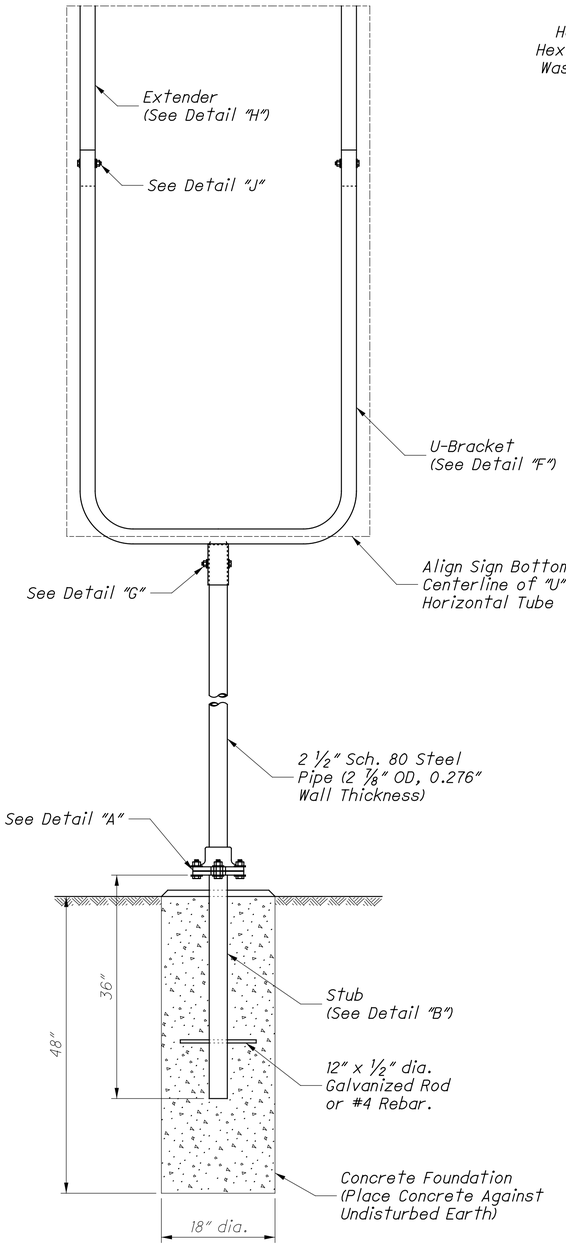
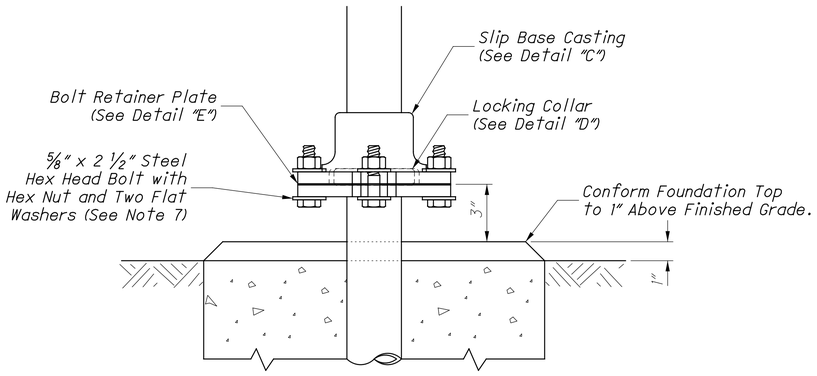
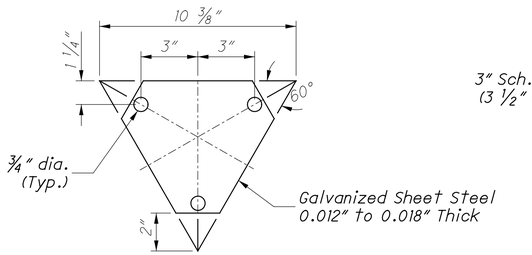


TRIANGULAR SLIP BASE PIPE SIGN SUPPORT



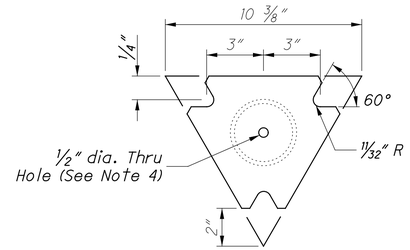
DETAIL "A"

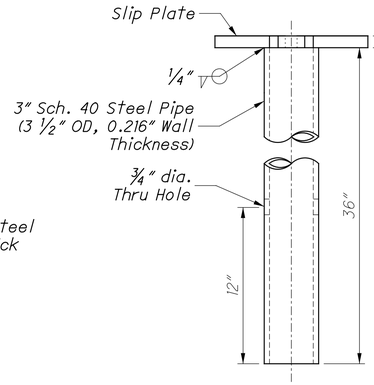
TRIANGULAR SLIP BASE



DETAIL "E"

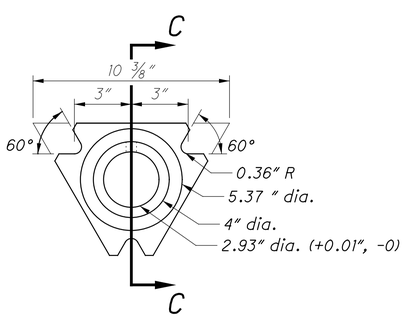
BOLT RETAINER PLATE





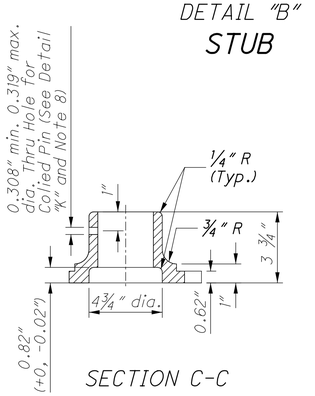
DETAIL "B"

STUB



DETAIL "C"

SLIP BASE CASTING



SECTION C-C

NOTES:

1. Furnish slip base casting fabricated from ductile iron conforming to ASTM A 536 Grade 65-45-12, and galvanized according to ASTM A 153, Class A.
2. Furnish locking collar machined from steel bar conforming to ASTM A 108 Grade 12L14, steel bar conforming to ASTM A 576 Grade 12L14 or 1026, or steel tubing conforming to ASTM A 519 Grade 12L14 or 1026, and electrodeposited zinc coated and supplemental chromate conversion coated to ASTM B 633 Class Fe/Zn 12 Type II.
3. Furnish hex socket cap screw manufactured according to ASTM A 574 with electrodepositited zinc coating and supplemental chromate conversion coating to ASTM B 633 Class Fe/Zn 12 Type II.
4. Center holes in the slip base and bolt-down anchor are for galvanizing venting and drainage. Exact hole placement may vary as needed.
5. Use bolt-down anchor for installations in existing concrete.
6. Tighten hex socket cap screw to 60-foot-pounds. Do not overtighten.
7. Tighten slip base bolts to between 40 and 80 foot-pounds. Tighten all bolts evenly by working around the support in approximately 10 foot-pound increments to assure balanced tension in the bolts. Tighten all three bolts to the same torque. Do not overtighten.
8. After tightening slip base bolts, drill a 5⁄16" diameter hole in the pipe through the hole in the slip base casting, and drive in the coiled pin, to prevent pipe twisting in the slip base. Drive the coiled pin in such that approximately ¼" to ⅜" of the pin remains protruding beyond the outside diameter of the slip base casting. The coiled pin shall be standard duty, stainless steel.
9. For signs less than 60" high, reduce the U-bracket height accordingly, such that the top of the U-bracket aligns with the top of the sign. For 60" high signs, use the U-bracket as shown. For signs over 60" high, use extenders of appropriate length such that the tops of the extenders align with the top of the sign.
10. For extrusheet sign attachment, use two no. 2 or no. 3 U-channel posts equal in length to the sign height. Clamp the U-channel posts vertically to the vertical arms of the U-bracket (and extenders, when used) with the sign pipe clamp 6" from each end and at a maximum interior spacing of 12". Fasten the extrusheet sign to each U-channel support with mounting clips, per Standard Construction Drawing (SCD) TC-51.11.
11. For flat sheet sign attachment, use no. 2 or no. 3 U-channel posts equal in length to the sign width, and in the quantity required in accordance with SCDs TC-52.10 and TC-52.20. Clamp the U-channel posts horizontally to the vertical arms of the U-bracket (and extenders, when used) with the sign pipe clamp. Fasten the flat sheet sign to each U-channel support as per SCD TC-41.20.
12. Refer to SCD TC-41.20 for U-channel post details.

PLAN INSERT SHEET
STRUCTURAL PIPE SIGN SUPPORT

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614 360 9999
MOODY-EMG.COM
MOODY ENGINEERING

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.495 TOTAL 577

FRA-70-0.00

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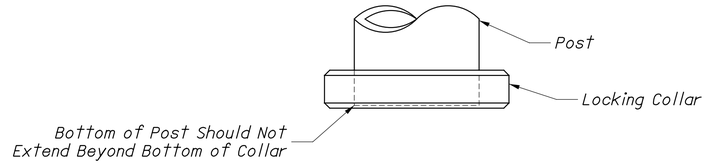
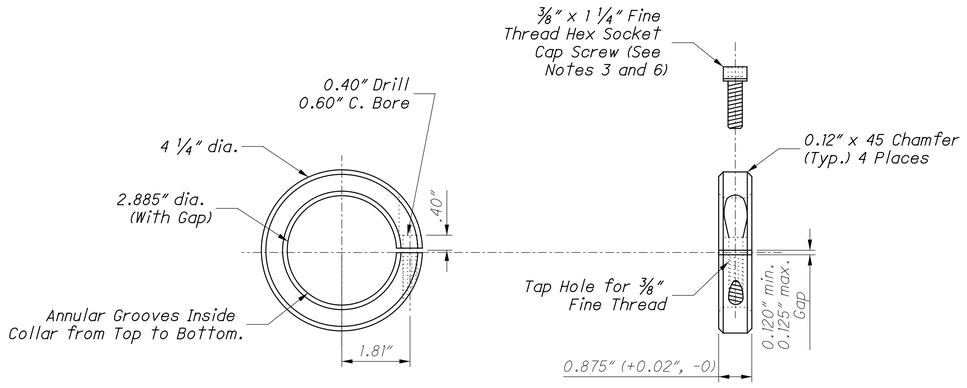
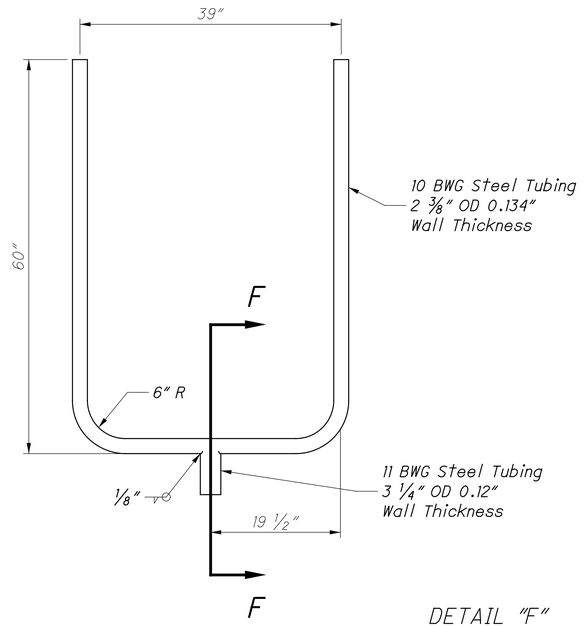
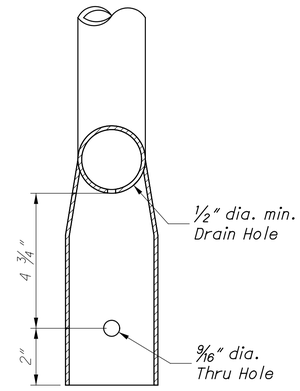




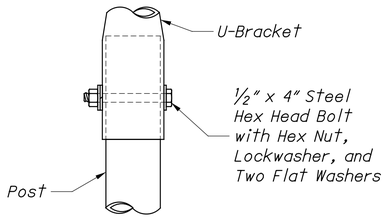
DETAIL "D"
LOCKING COLLAR
(See Note 2)



DETAIL "F"
U-BRACKET
(See Note 9)



SECTION F-F



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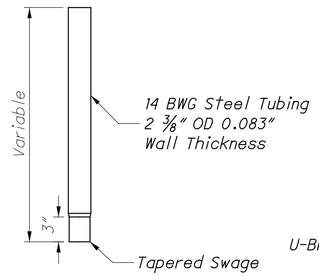

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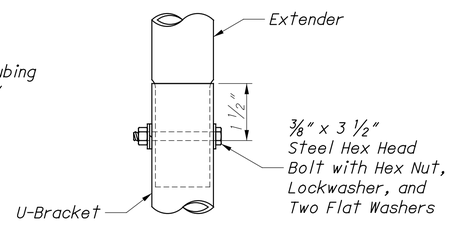
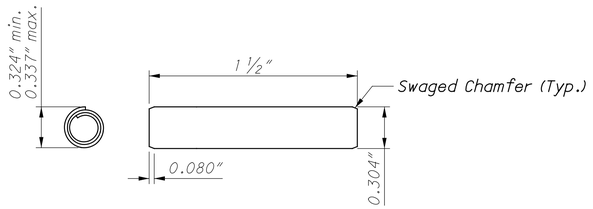
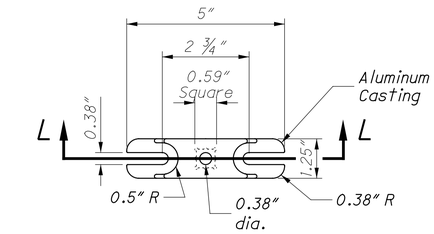


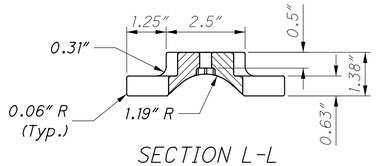
DETAIL "J"

EXTENDER
(See Note 9)



DETAIL "K"
COILED PIN
(See Note 8)





SECTION L-L

DETAIL "L"
SIGN PIPE CLAMP

PLAN INSERT SHEET
STRUCTURAL PIPE SIGN SUPPORT

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 300
CINCINNATI, OHIO 45202
P: 614.360.9999
MOODY-ENG.COM

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.496 TOTAL 577

FRA-70-0.00

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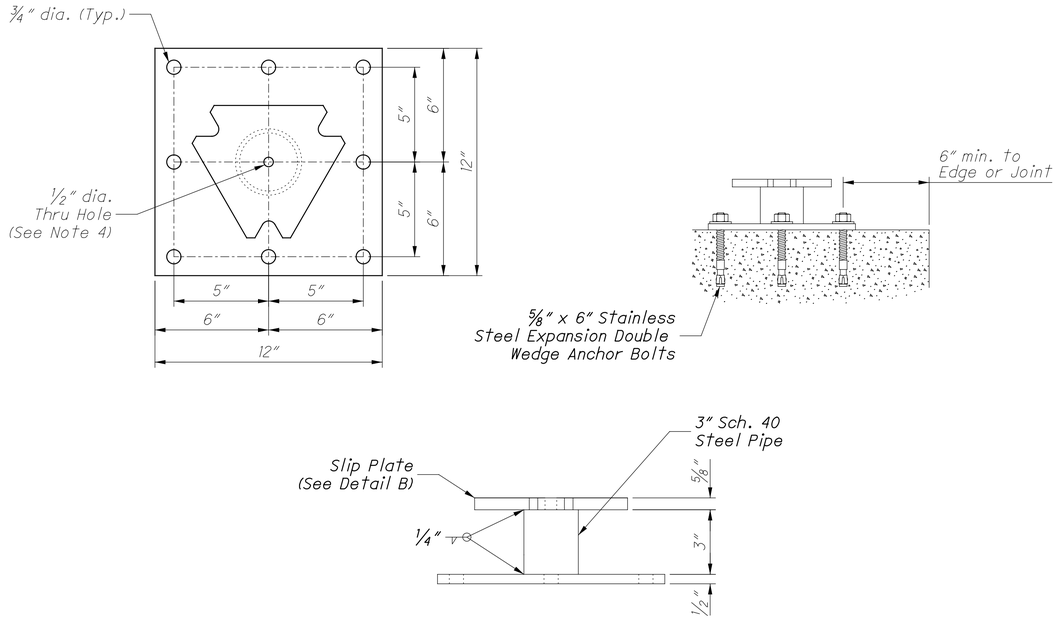
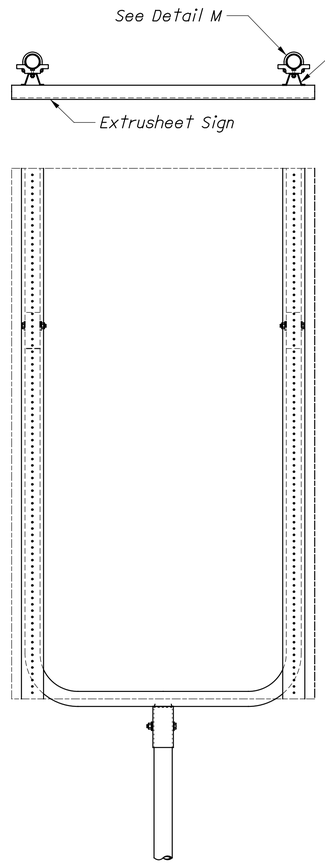


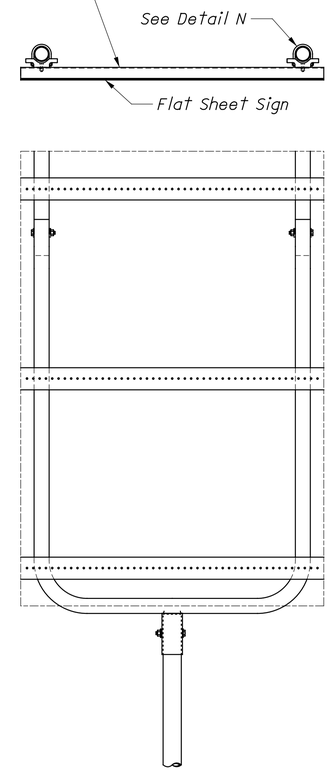
BOLT-DOWN ANCHOR

(See Note 5)



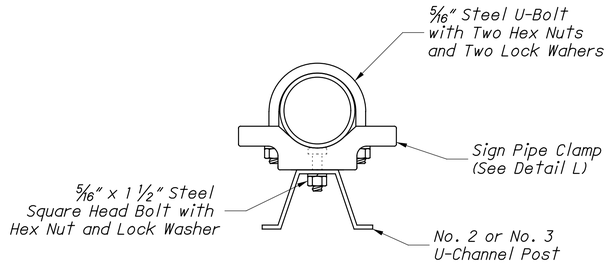
SIGN ATTACHMENT EXTRUSHEET

(See Note 10)



SIGN ATTACHMENT FLAT SHEET

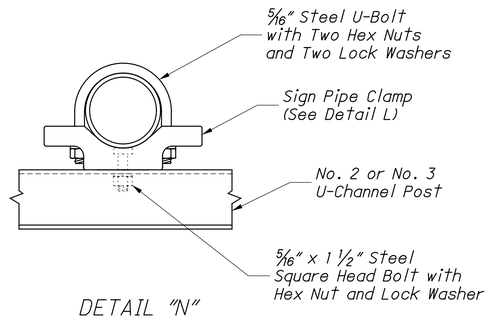
(See Note 11)



DETAIL "M"

CLAMP ASSEMBLY

(For Extrusheet Sign)



DETAIL "N"

CLAMP ASSEMBLY

(For Flat Sheet Sign)

PLAN INSERT SHEET
STRUCTURAL PIPE SIGN SUPPORT

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614.360.9999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.497
TOTAL	577

FRA-70-0.00

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LEGEND

PAVEMENT MARKINGS

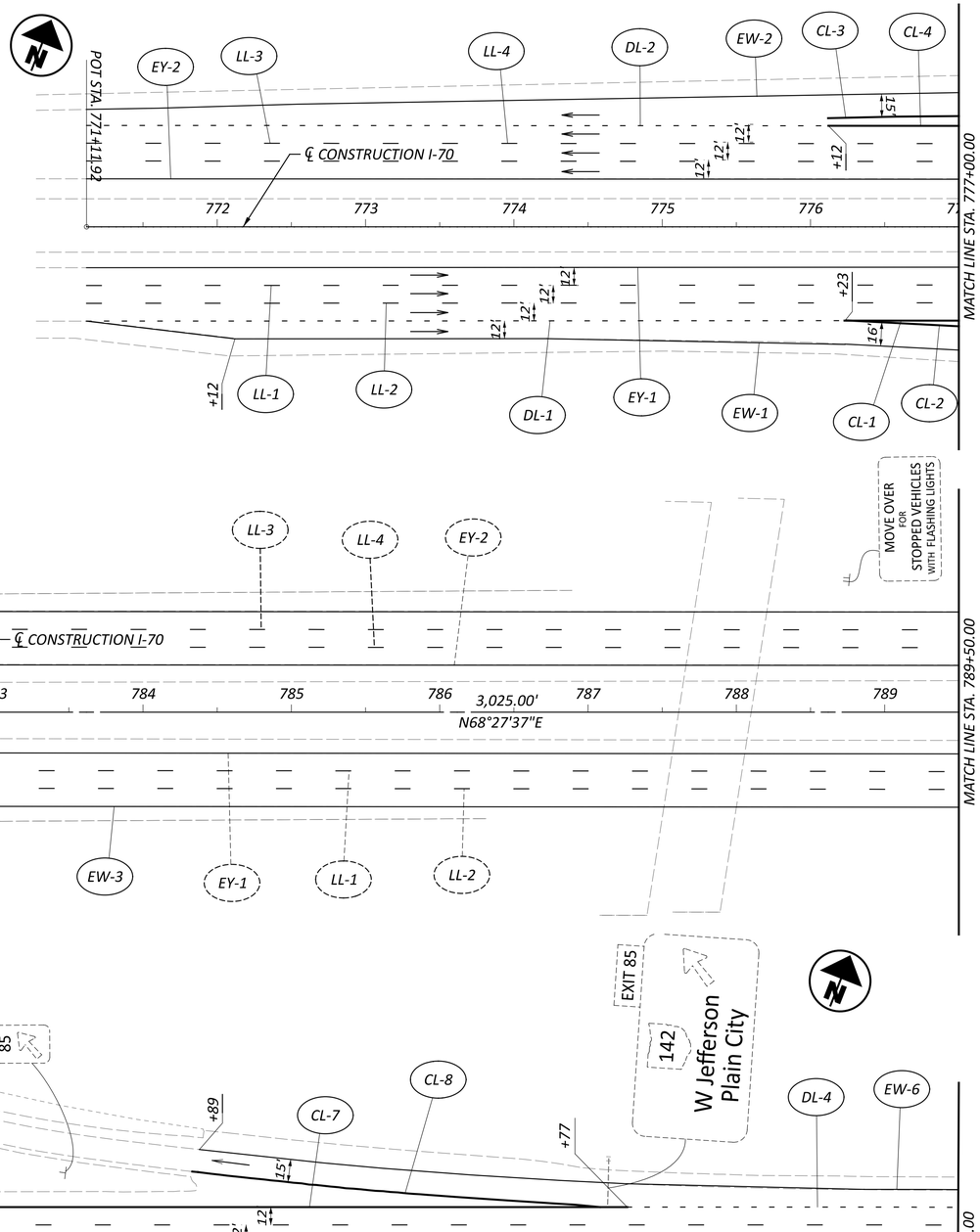
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

1. 1-WAY (WHITE) AT 120' ON LANE LINE
2. 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
3. 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

FRA-70-0.00

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DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200 SPRINGFIELD, OHIO 45506
P: 614 280 8999
MOODY-ENG.COM

DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.498
TOTAL	577

LEGEND

PAVEMENT MARKINGS

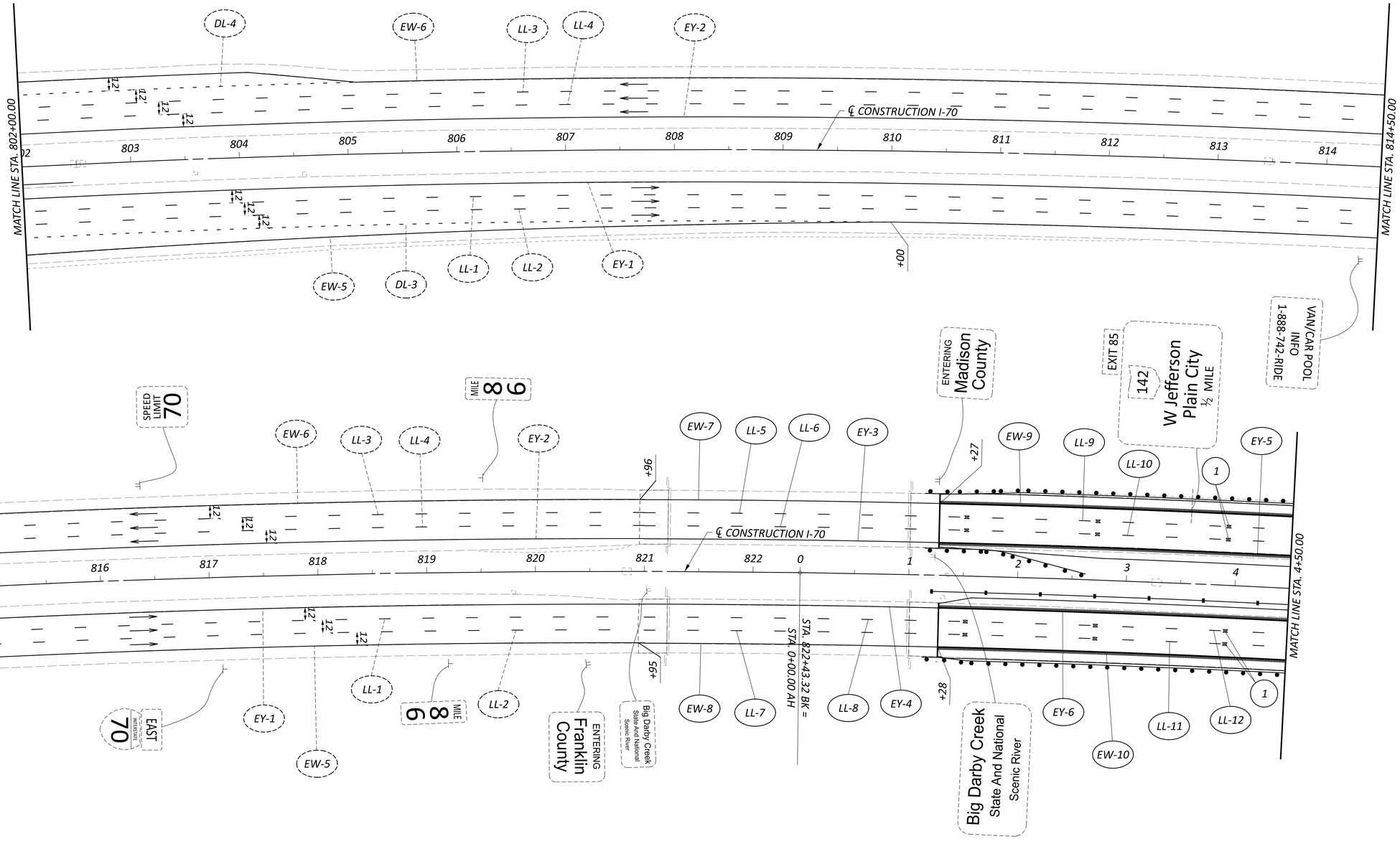
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM

DESIGNER: CNK
REVIEWER: LET 08-14-24
PROJECT ID: 116949
SHEET: P.499 TOTAL: 577

FRA-70-0.00

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LEGEND

PAVEMENT MARKINGS

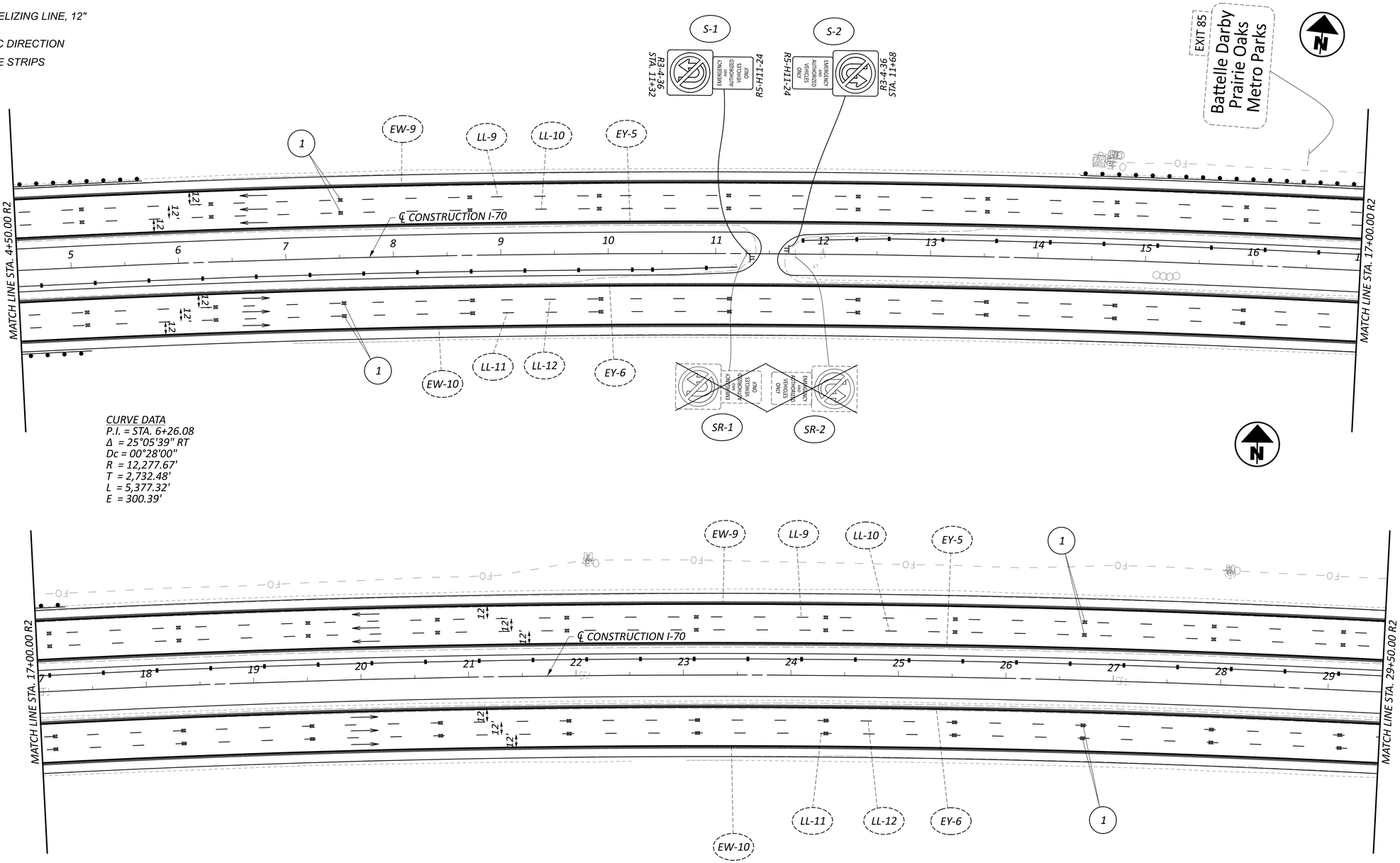
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



CURVE DATA
P.I. = STA. 6+26.08
Δ = 25°05'39" RT
Dc = 00°28'00"
R = 12,277.67'
T = 2,732.48'
L = 5,377.32'
E = 300.39'

HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200 COLUMBUS, OHIO 43215 P: 614 280 8899 MOODY-ENG.COM

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.500 TOTAL 577

FRA-70-0.00

MODEL: 116949_TP102 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:50:53 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

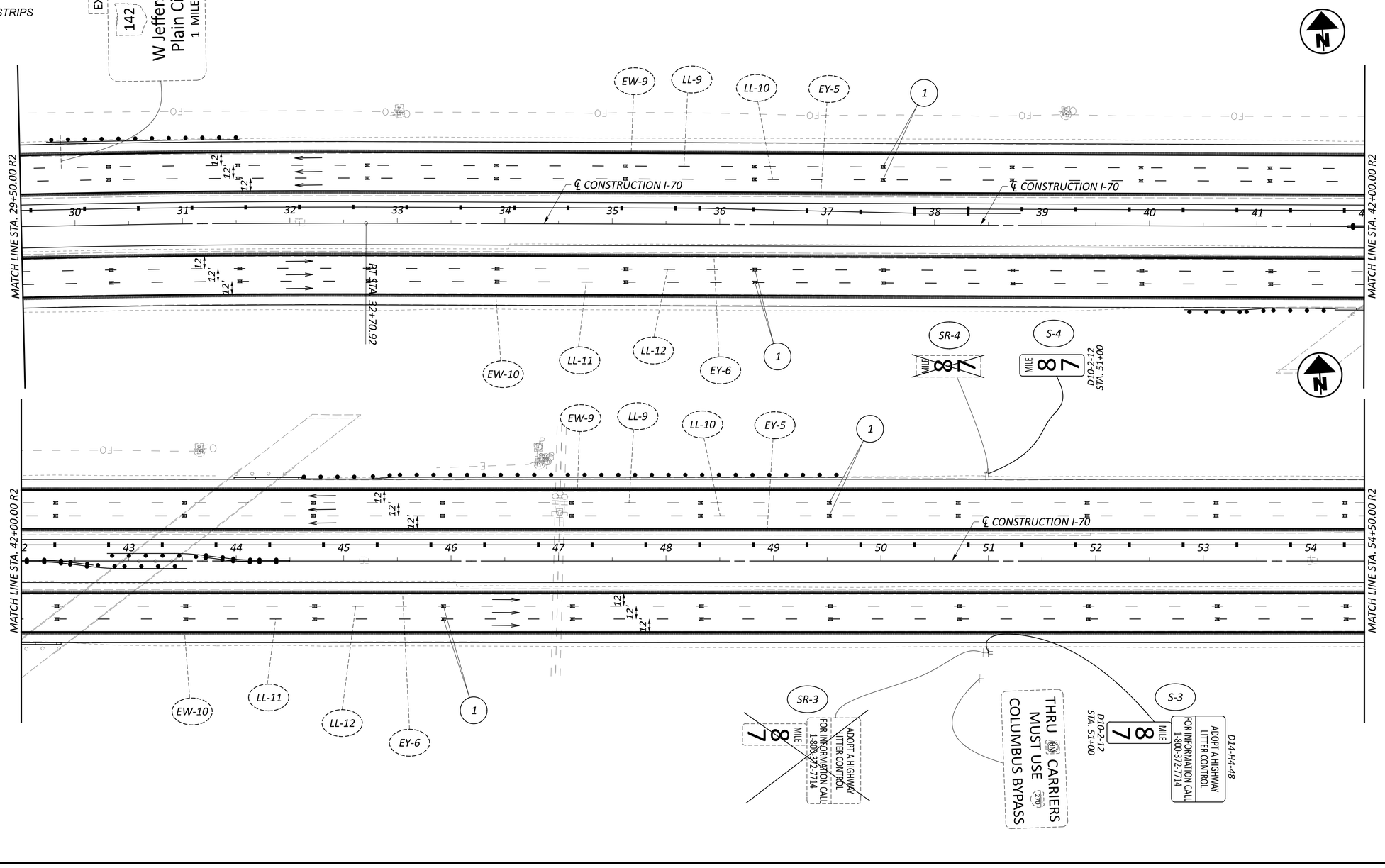
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614.280.8999
MOODY-ENG.COM

DESIGNER: CNK
REVIEWER: LET 08-14-24
PROJECT ID: 116949
SHEET: P.501 TOTAL: 577

FRA-70-0.00

MODEL: 116949_TP103 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 7:53:29 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

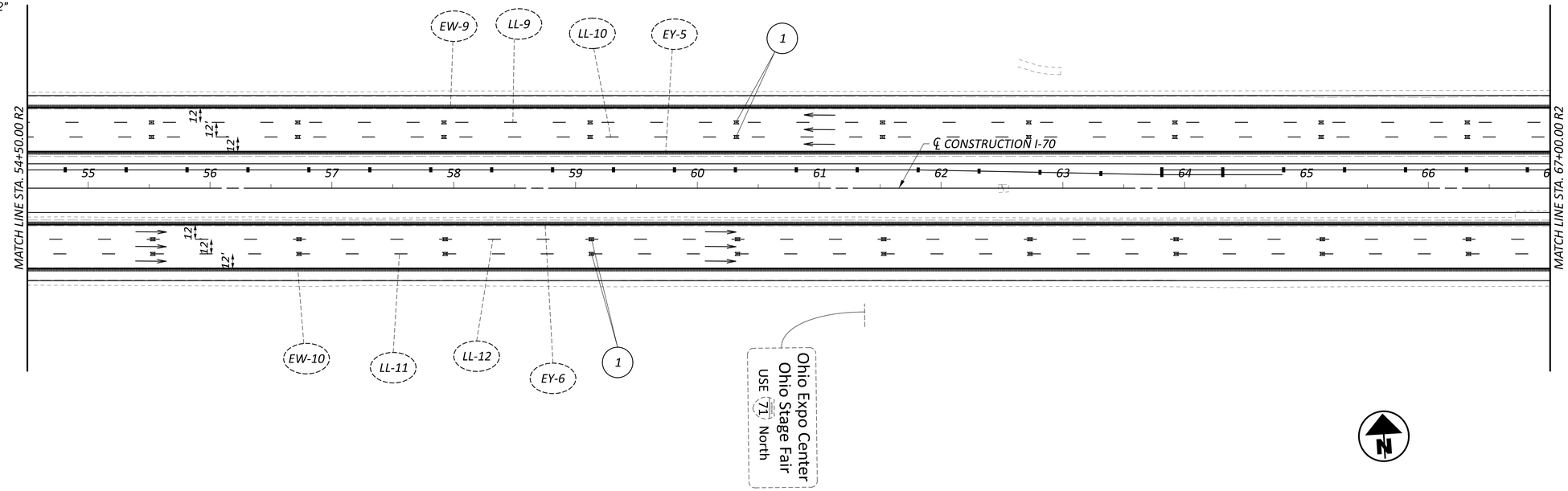
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

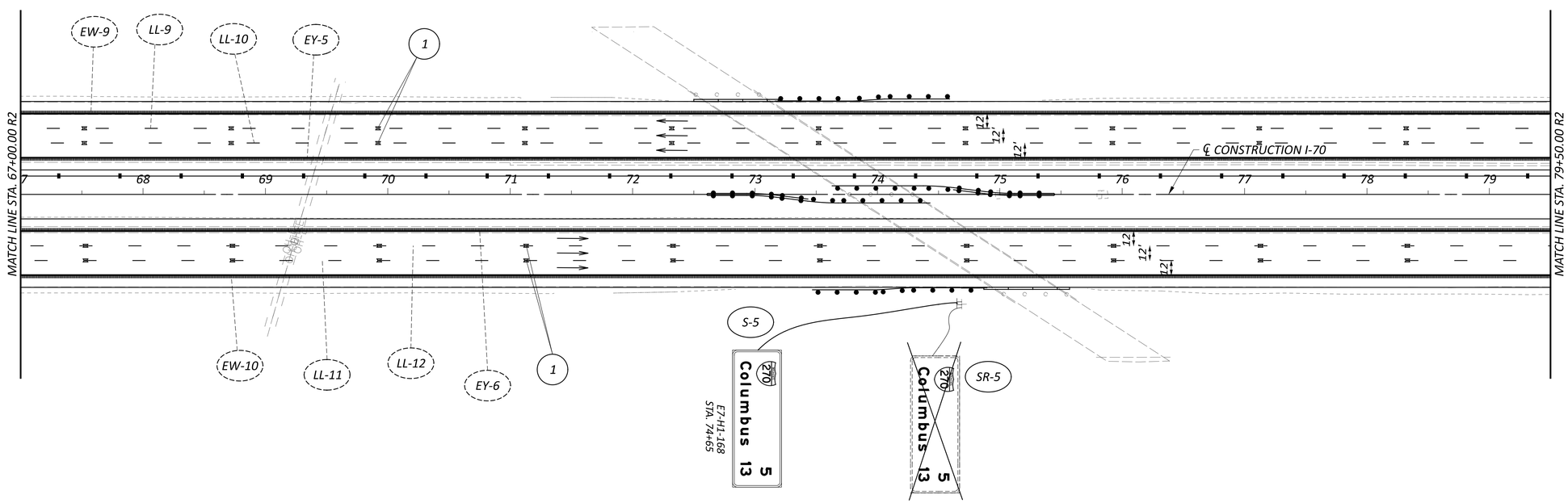
SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW





HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 200
COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM

DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.502
TOTAL	577

FRA-70-0.00

MODEL: 116949_TP104 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:09:54 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

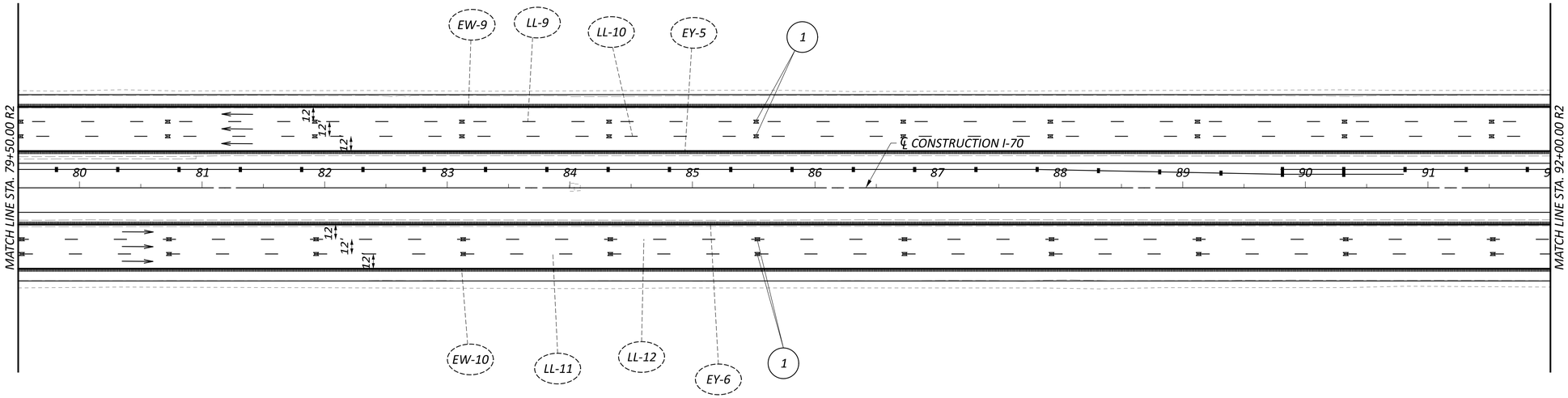
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

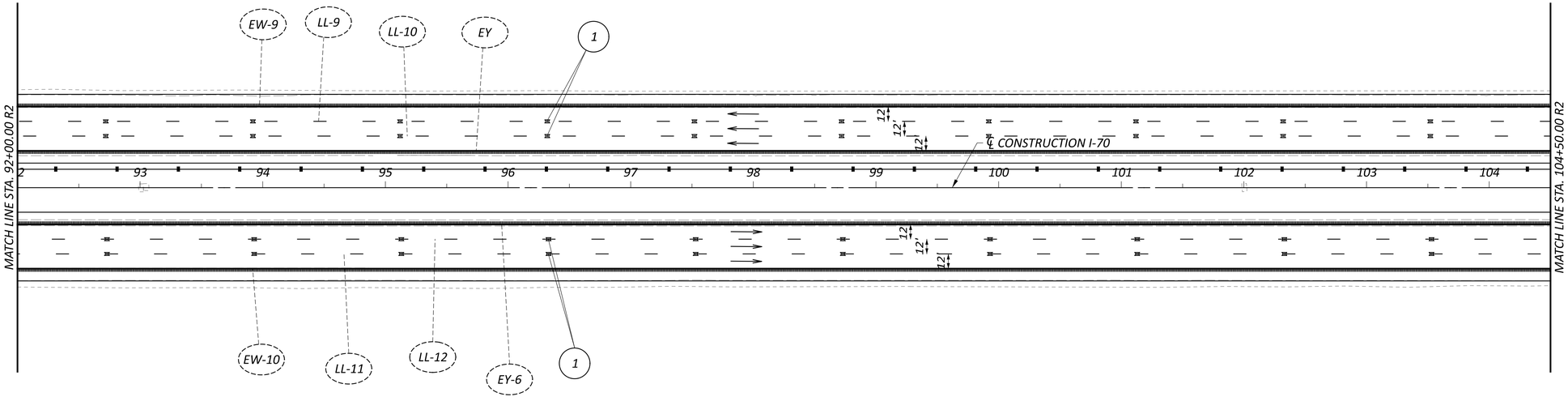
SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW





HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200 COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM

DESIGNER: CNK
REVIEWER: LET 08-14-24
PROJECT ID: 116949
SHEET: P.503 TOTAL: 577

FRA-70-0.00

MODEL: 116949_TP105 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:20:44 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

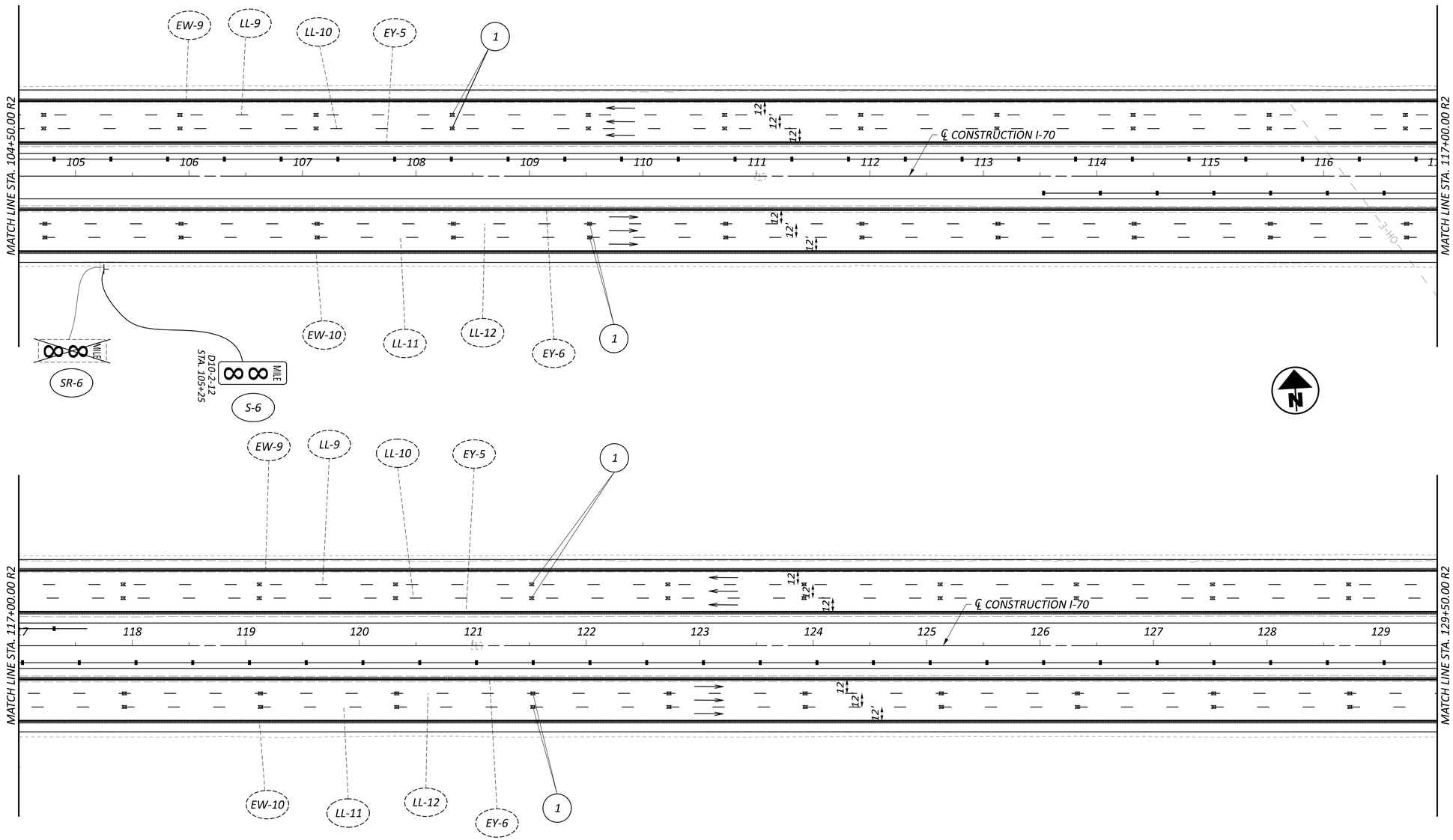
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200 COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM

DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.504
TOTAL	577

FRA-70-0.00

MODEL: 116949_TP106 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:31:49 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

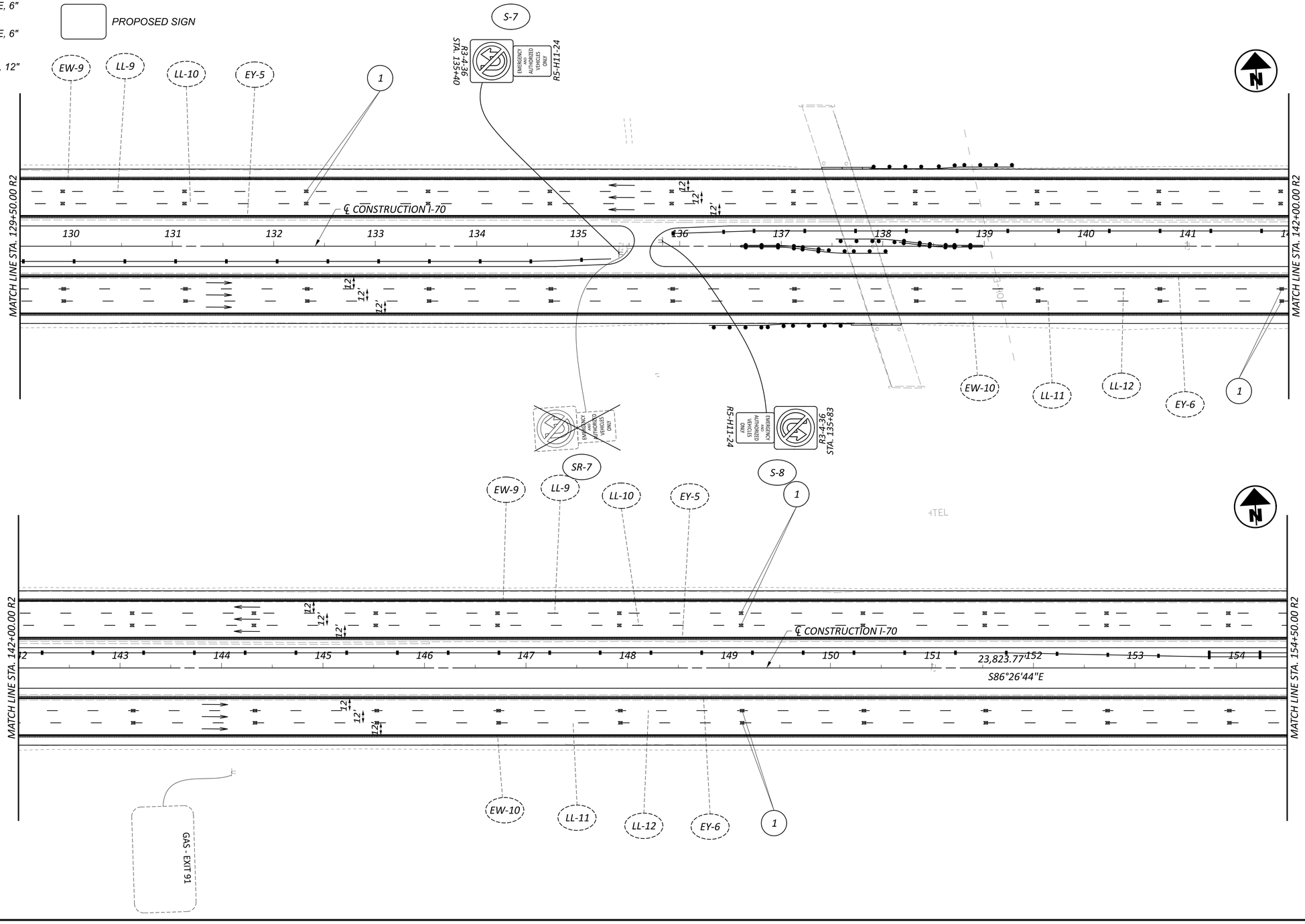
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
300 SPRUCE STREET
SUITE 200
SPRINGFIELD, OHIO 45506
P: 614 360 6999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.505
TOTAL	577

FRA-70-0.00

MODEL: 116949_TP107 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:34:14 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

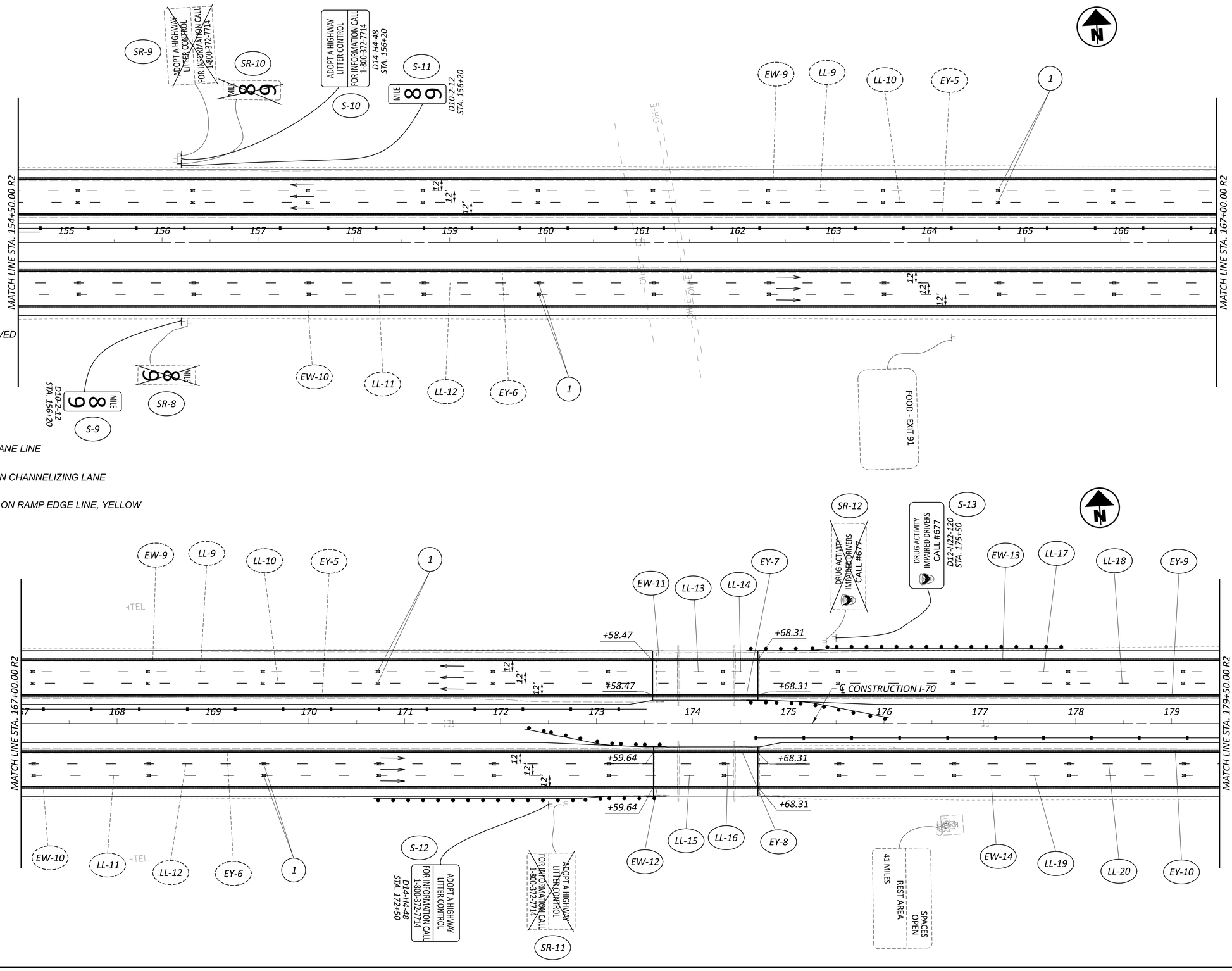
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- C — CHEVRON, 24"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

1. 1-WAY (WHITE) AT 120' ON LANE LINE
2. 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
3. 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

FRA-70-0.00

MODEL: 116949_TP108 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:36:10 PM USER: ckline
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DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200 COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM

DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.506
TOTAL	577

LEGEND

PAVEMENT MARKINGS

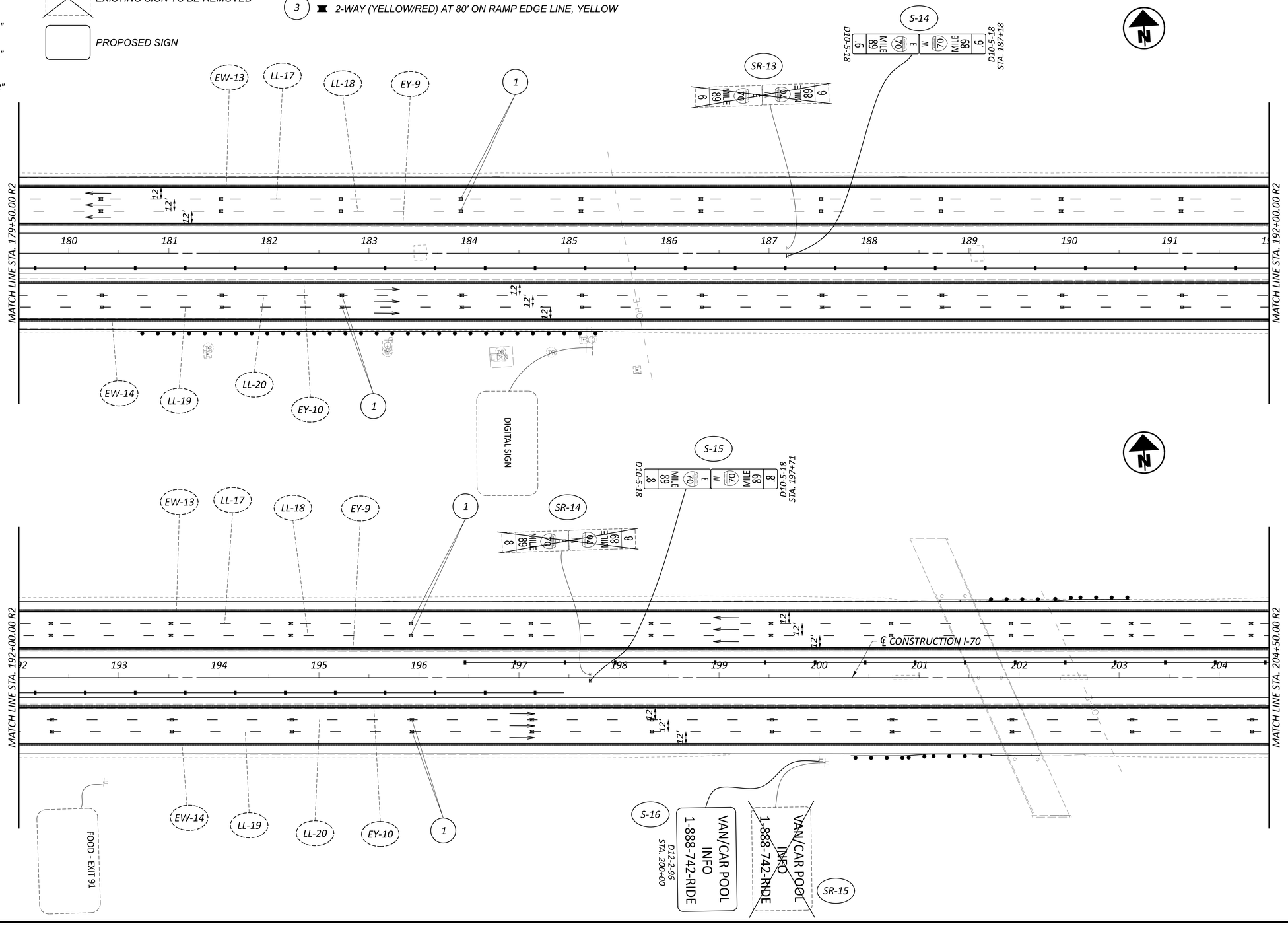
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200 SPRINGFIELD, OHIO 45506
P: 614.280.8999 MOODY-ENG.COM

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.507 TOTAL 577

FRA-70-0.00

MODEL: 116949_TP109 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:37:58 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

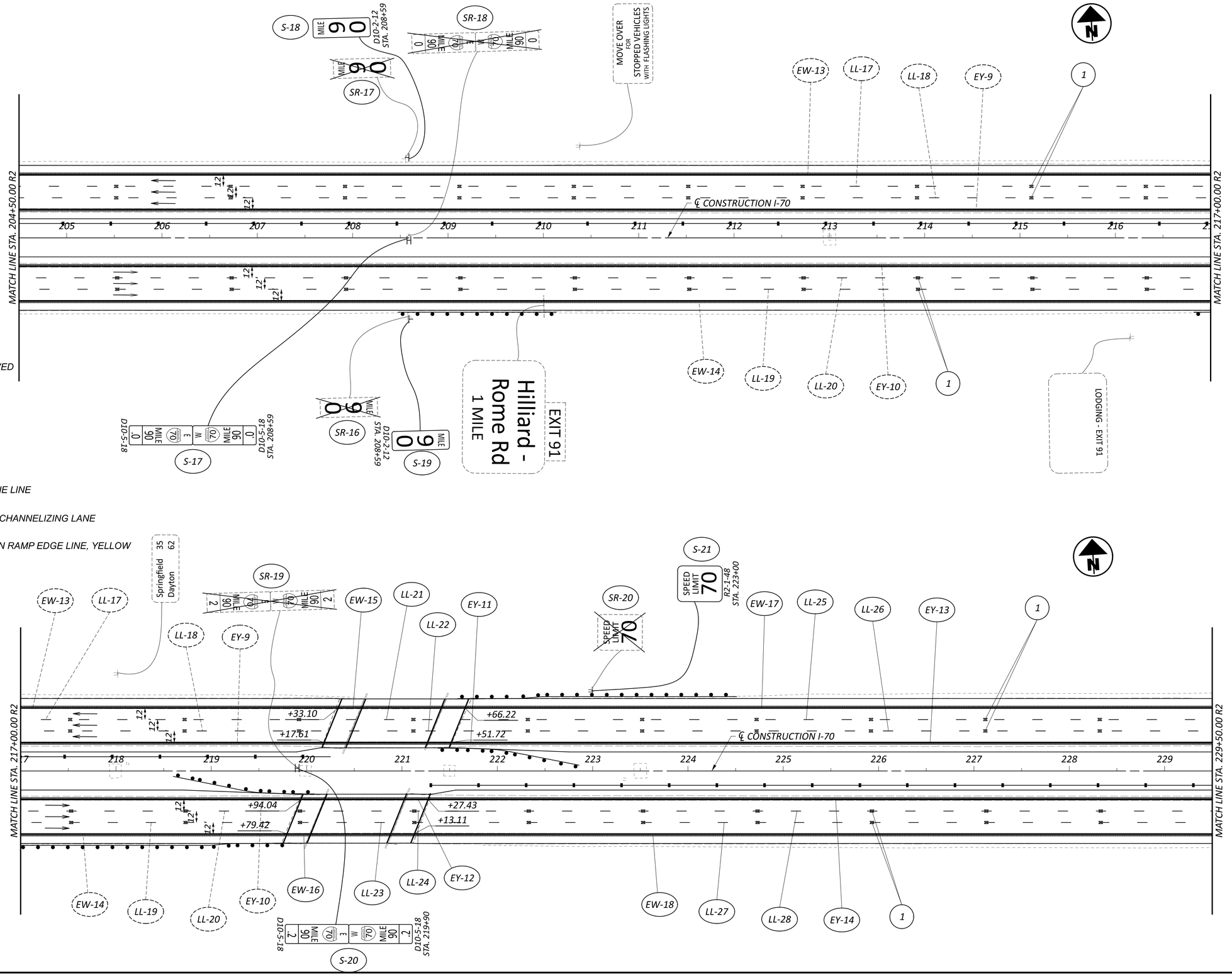
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- C — CHEVRON, 24"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200 COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM

DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.508
TOTAL	577

FRA-70-0.00

MODEL: 116949_TP110 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:39:55 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

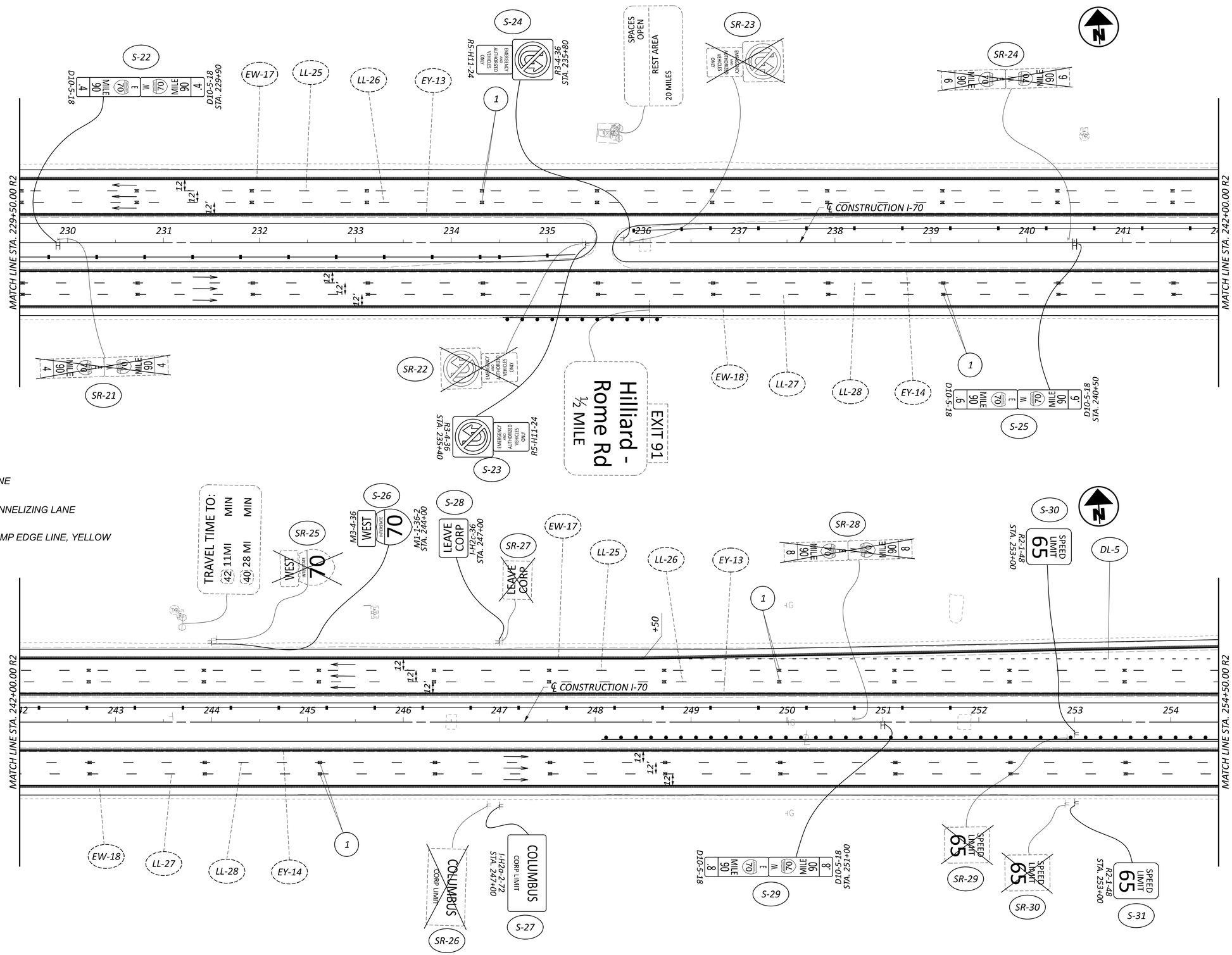
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- C — CHEVRON, 24"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

1. 1-WAY (WHITE) AT 120' ON LANE LINE
2. 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
3. 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 300 SPRINGFIELD, OHIO 45506
P: 614 280 9999
MOODY-ENG.COM

DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.509
TOTAL	577

FRA-70-0.00

MODEL: 116949_TP111 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:41:47 PM USER: ckline
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LEGEND

PAVEMENT MARKINGS

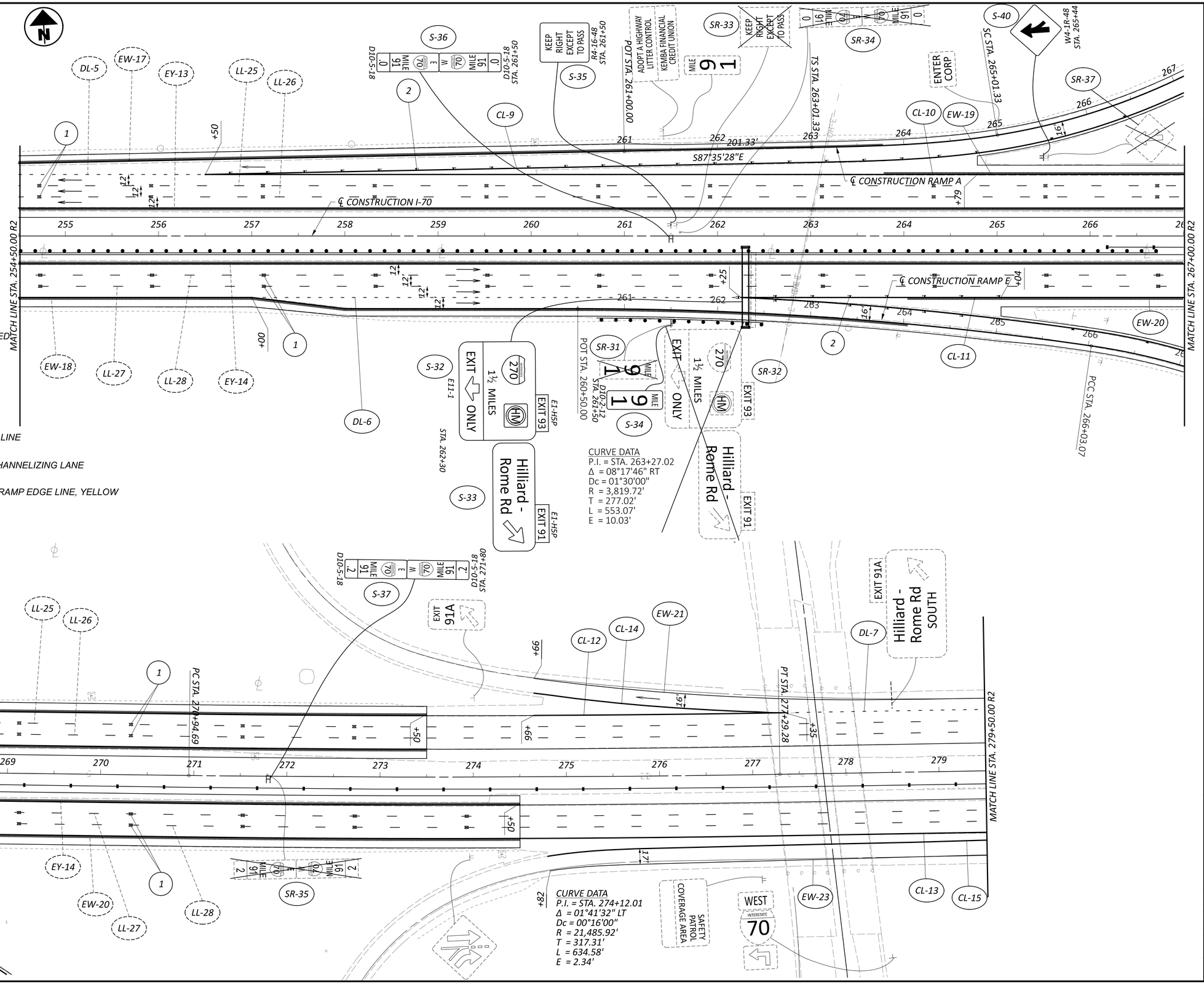
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- C — CHEVRON, 24"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

FRA-70-0.00

MODEL: 116949_TP112 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:52:10 PM USER: ckline
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DESIGN AGENCY
MOODY ENGINEERING
320 SPRUCE STREET
COLUMBUS, OHIO 43215
P: 614 360 8999
MOODY-ENG.COM

DESIGNER	
CNK	
REVIEWER	
LET	08-14-24
PROJECT ID	
116949	
SHEET	TOTAL
P.510	577

LEGEND

PAVEMENT MARKINGS

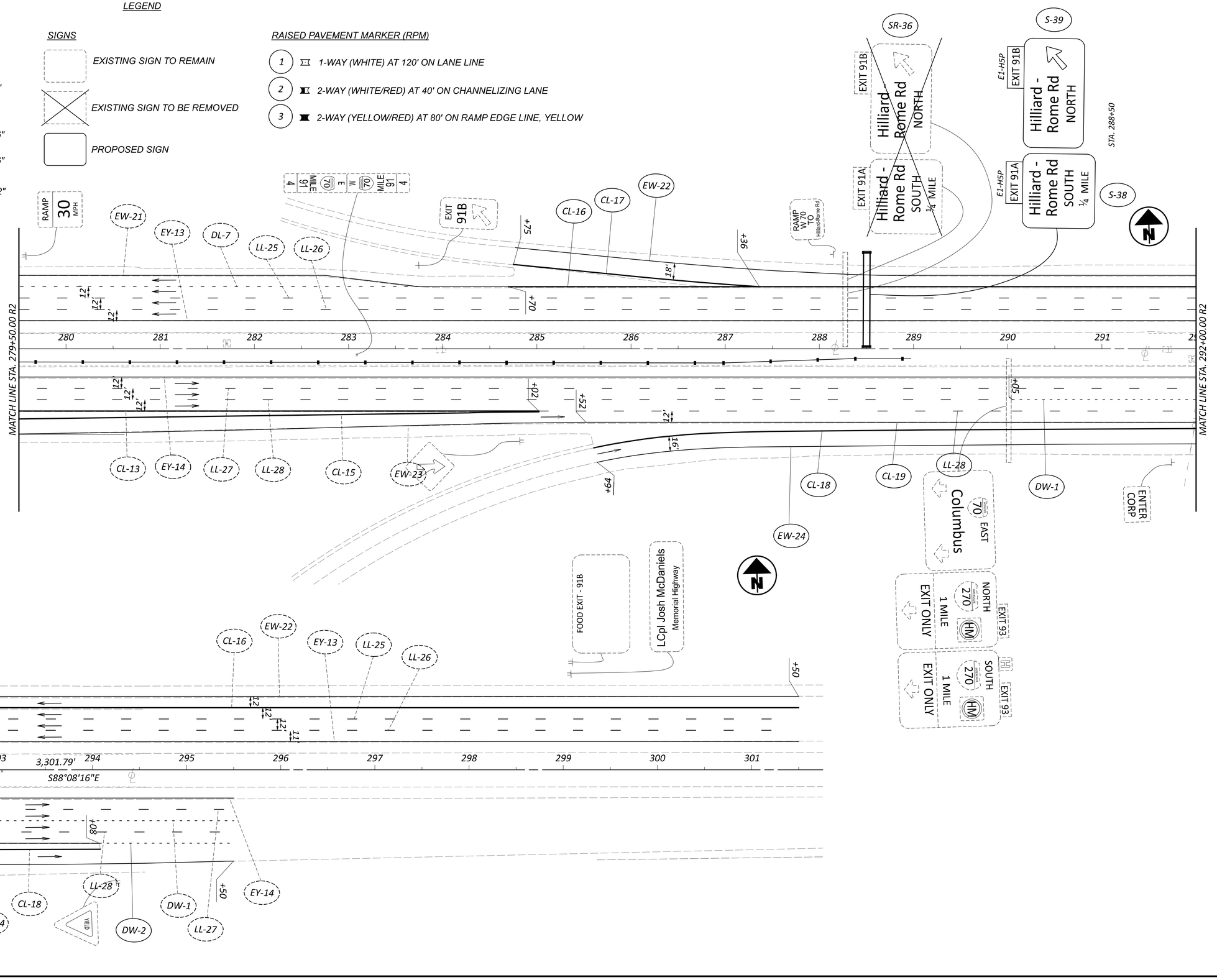
- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

1. 1-WAY (WHITE) AT 120' ON LANE LINE
2. 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
3. 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW



HORIZONTAL SCALE IN FEET
0 25 50 100

PAVEMENT MARKING AND SIGNING PLAN

DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 200, COLUMBUS, OHIO 43215
P: 614.360.8999
MOODY-ENG.COM

DESIGNER: CNK
REVIEWER: LET 08-14-24
PROJECT ID: 116949
SHEET: P.511 TOTAL: 577

FRA-70-0.00

MODEL: 116949_TP113 PAPERSIZE: 34x22 (in.) DATE: 8/28/2024 TIME: 8:56:08 PM USER: ckline
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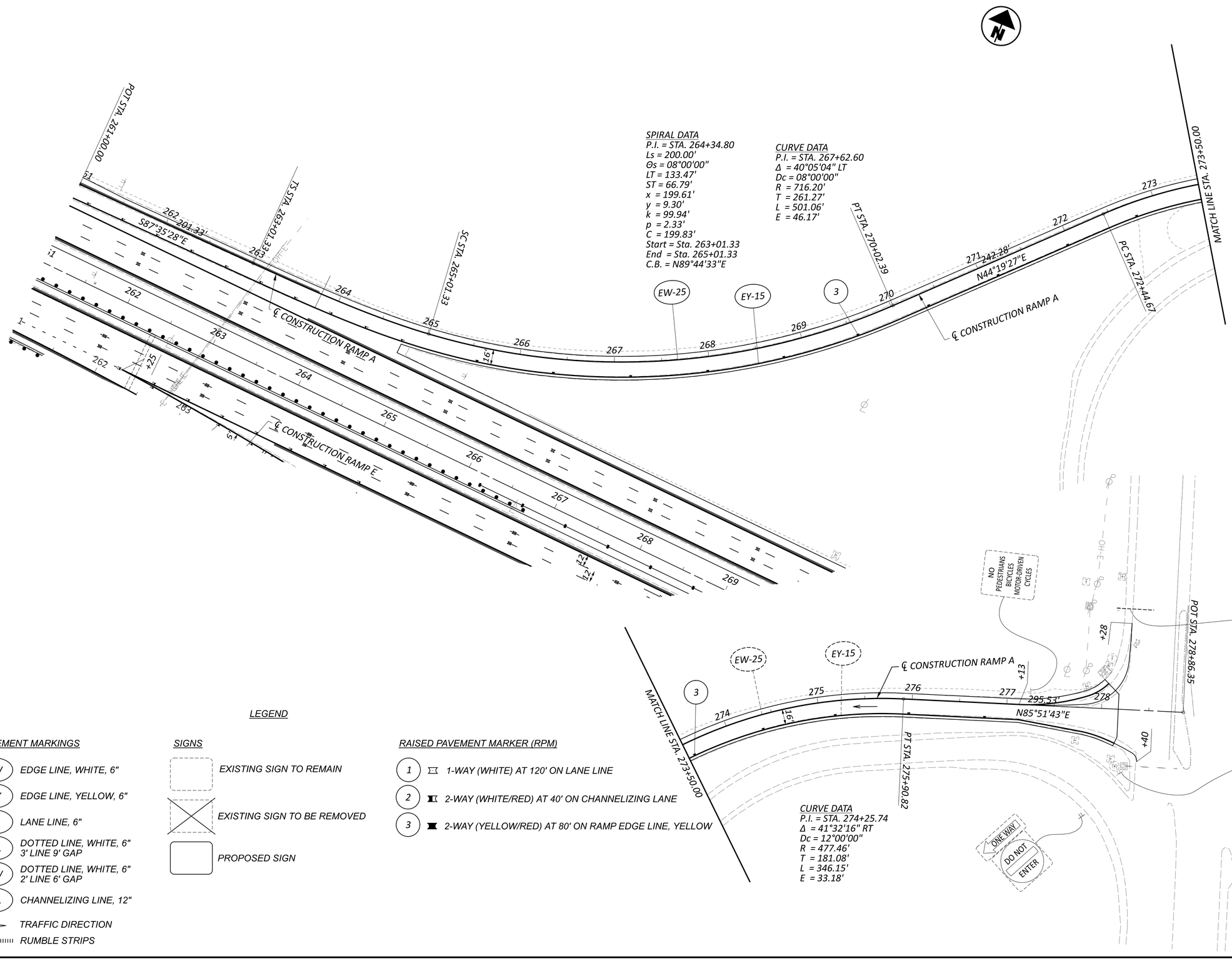

LEGEND

PAVEMENT MARKINGS

- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

- 1 — 1-WAY (WHITE) AT 120' ON LANE LINE
- 2 — 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
- 3 — 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW

PAVEMENT MARKING AND SIGNING PLAN

FRA 70-0.00

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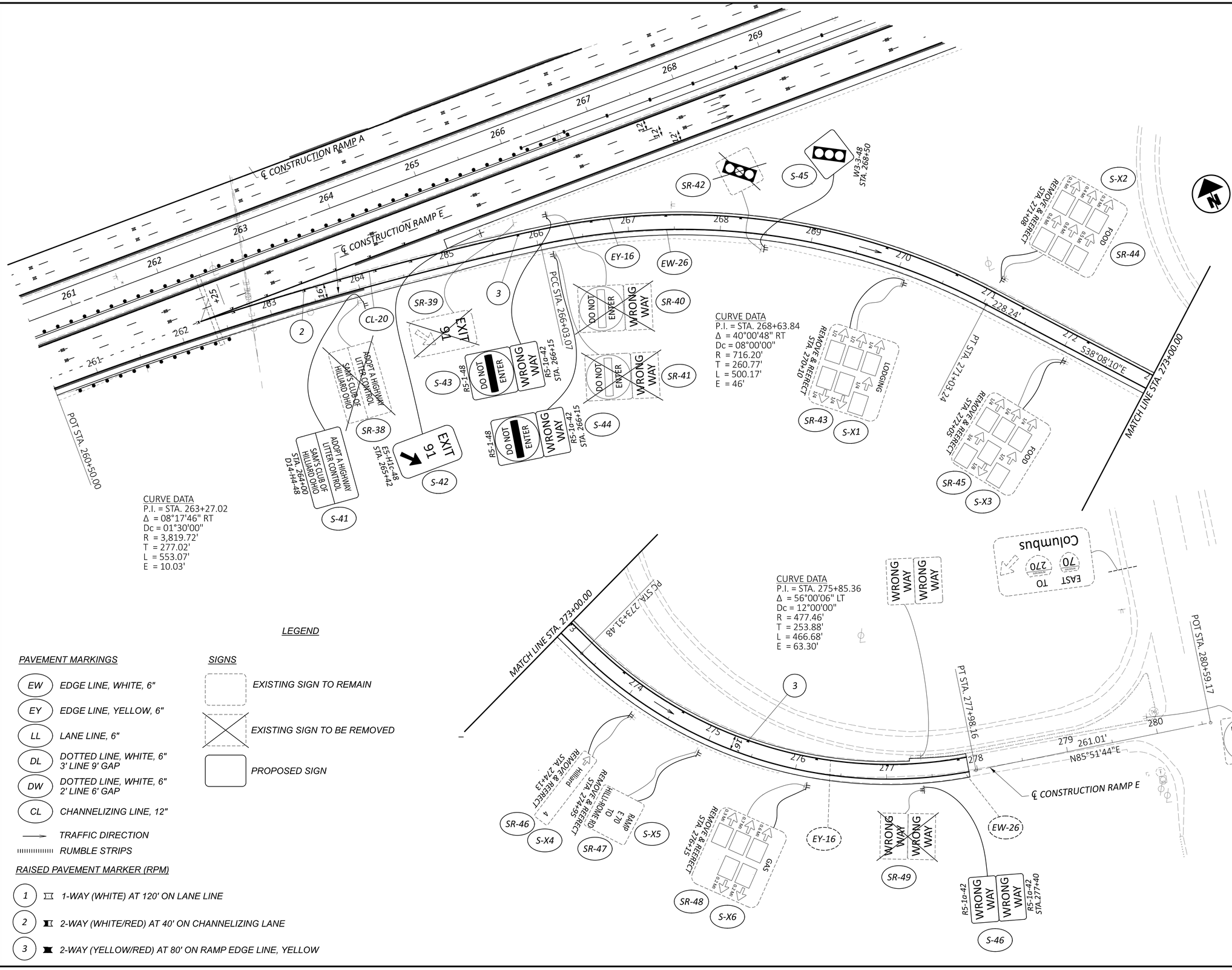
DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET
SUITE 200
SPRINGFIELD, OHIO 45506
P: 614 360 8899
MOODY-ENG.COM

DESIGNER: CNK
REVIEWER: LET 08-14-24
PROJECT ID: 116949
SHEET: P.512 TOTAL: 577



LEGEND

PAVEMENT MARKINGS

- EW — EDGE LINE, WHITE, 6"
- EY — EDGE LINE, YELLOW, 6"
- LL — LANE LINE, 6"
- DL — DOTTED LINE, WHITE, 6" 3' LINE 9' GAP
- DW — DOTTED LINE, WHITE, 6" 2' LINE 6' GAP
- CL — CHANNELIZING LINE, 12"
- TRAFFIC DIRECTION
- RUMBLE STRIPS

SIGNS

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN

RAISED PAVEMENT MARKER (RPM)

1. 1-WAY (WHITE) AT 120' ON LANE LINE
2. 2-WAY (WHITE/RED) AT 40' ON CHANNELIZING LANE
3. 2-WAY (YELLOW/RED) AT 80' ON RAMP EDGE LINE, YELLOW

PAVEMENT MARKING AND SIGNING PLAN

FRA 70-0.00

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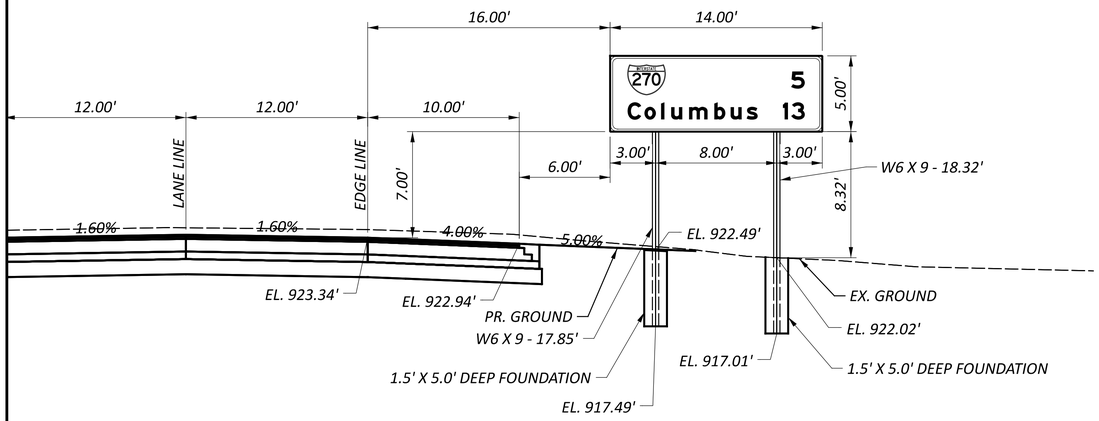
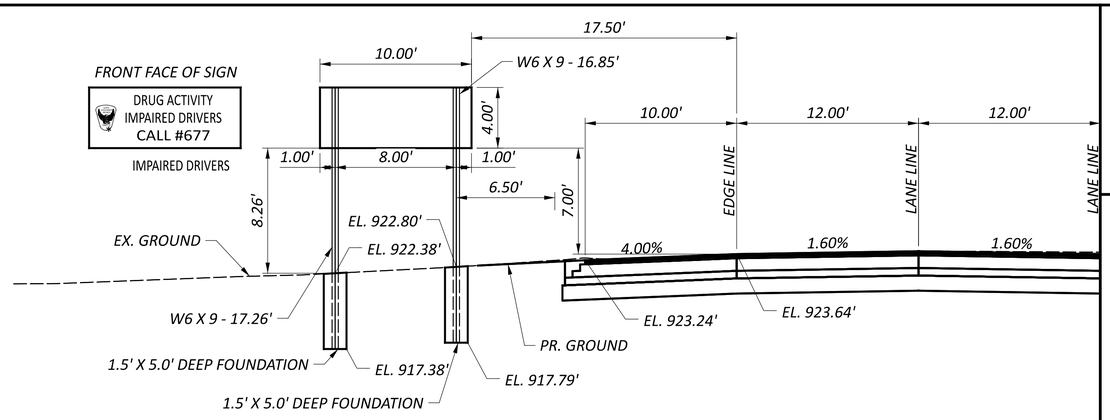
DESIGN AGENCY
MOODY ENGINEERING
300 SPRUCE STREET SUITE 300 COLUMBUS, OHIO 43215
P: 614 360 8999
MOODY-ENG.COM

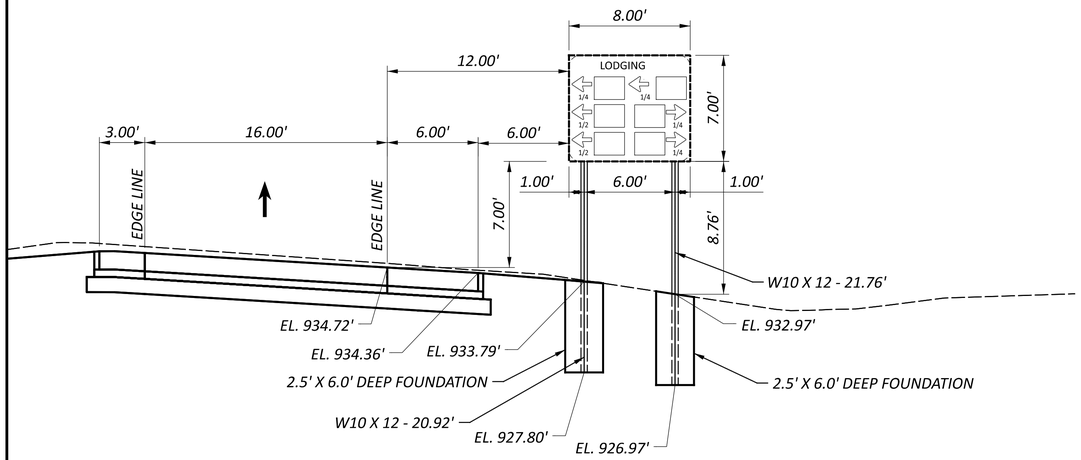
DESIGNER	CNK
REVIEWER	LET 08-14-24
PROJECT ID	116949
SHEET	P.513
TOTAL	577



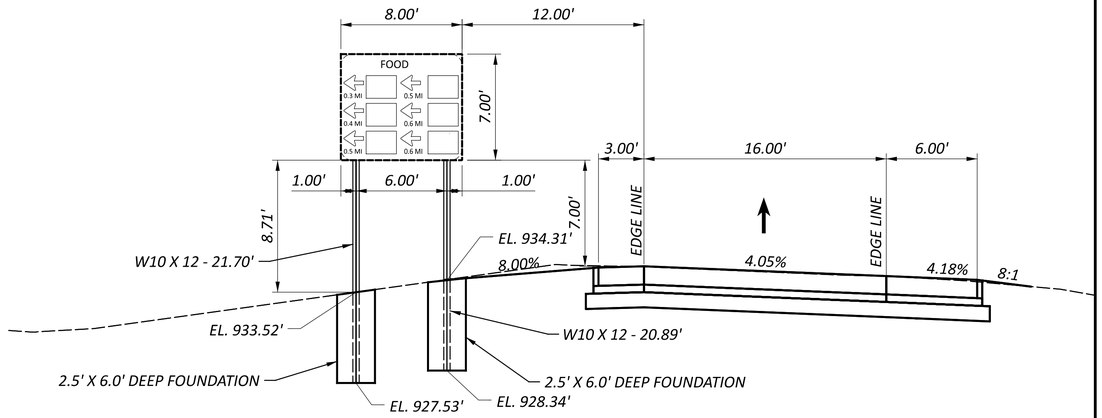
S-5 *E7-H1-168*
STA. 74+65.00, RT



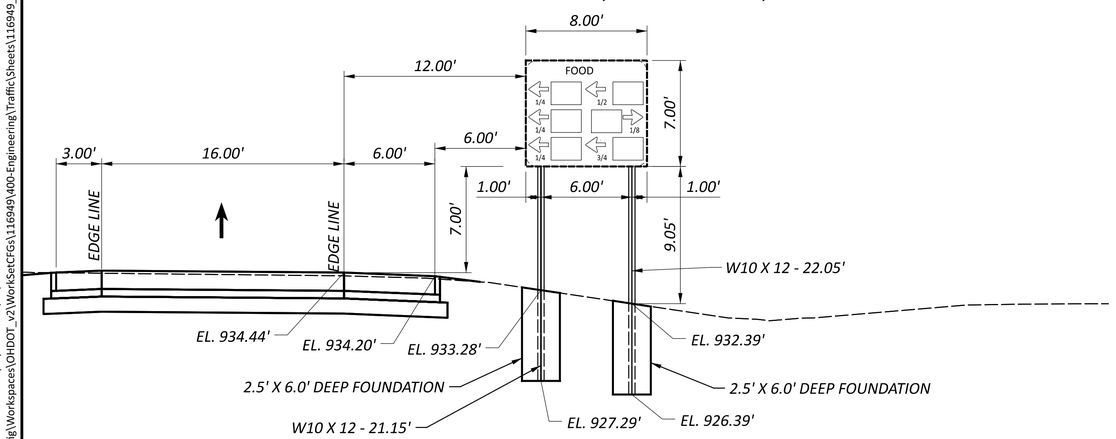
S-13 *D12-H22-120*
STA. 175+50.00, LT.



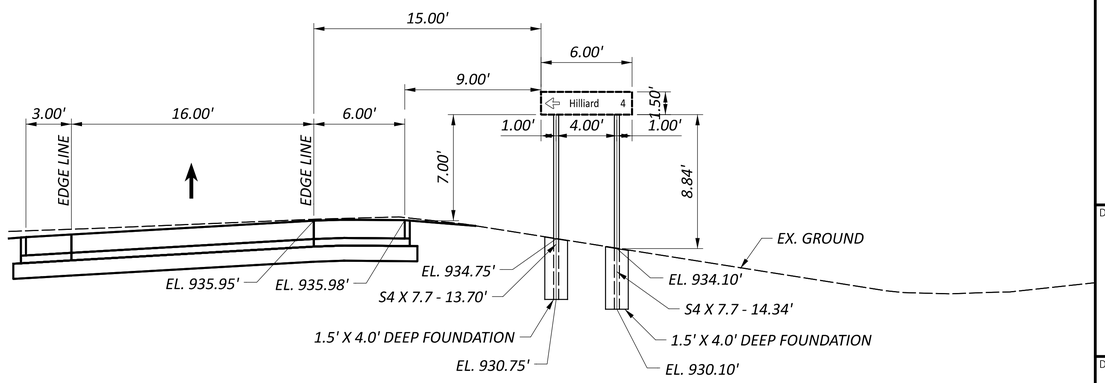
SX-1 *EXISTING LODGING INFORMATION SIGN*
RAMP E, STA. 270+10.00, RT



SX-2 *EXISTING FOOD INFORMATION SIGN*
RAMP E, STA. 271+08, LT



SX-3 *EXISTING FOOD INFORMATION SIGN*
RAMP E, STA. 272+05.00, RT



SX-4 *EXISTING DISTANCE TO HILLIARD SIGN*
RAMP E, STA. 274+13.00, RT

HORIZONTAL SCALE IN FEET
0 2.5 5 10

TRAFFIC CONTROL SIGN ELEVATION DETAILS

DESIGN AGENCY
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
P: 614 280 9999
MOODY-EMG.COM
MOODY ENGINEERING

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.514 TOTAL 577

FRA-70-0.00

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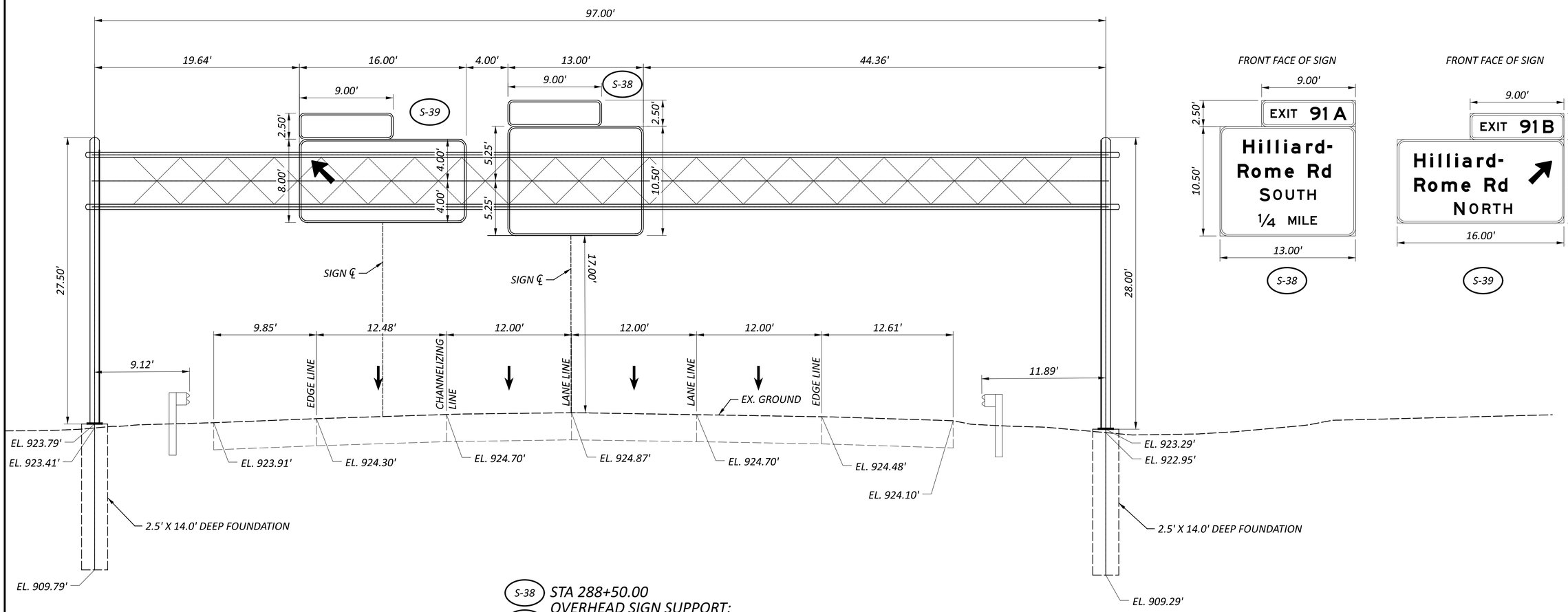
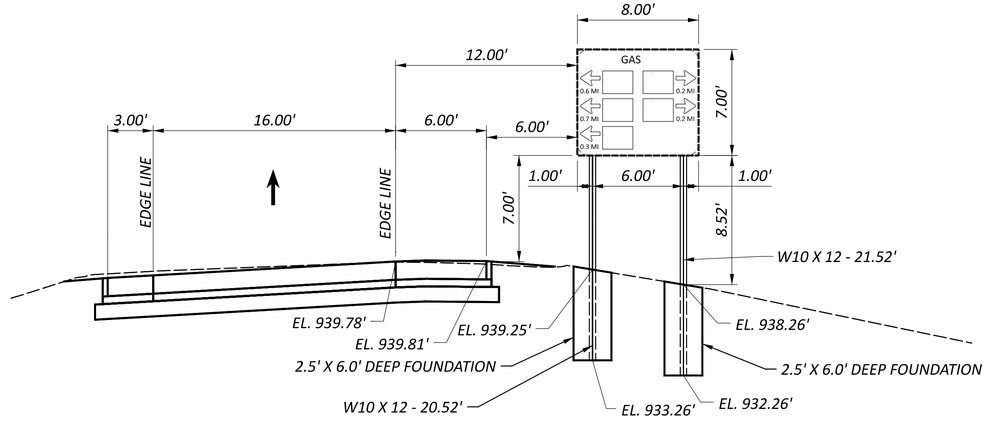


S-38 S-39 *STA 288+50.00*
OVERHEAD SIGN SUPPORT:
TYPE TC-15.116, DESIGN 2, 97.0' SPAN



SX-6 *EXISTING GAS INFORMATION SIGN*
RAMP E, STA. 276+15.00, RT

HORIZONTAL SCALE IN FEET
0 2.5 5 10

TRAFFIC CONTROL SIGN ELEVATION DETAILS

DESIGN AGENCY
300 SPRUCE STREET SUITE 200, COLUMBUS, OHIO 43215
P: 614 280 8999
MOODY-ENG.COM
MOODY ENGINEERING

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.515 TOTAL 577

FRA-70-0.00

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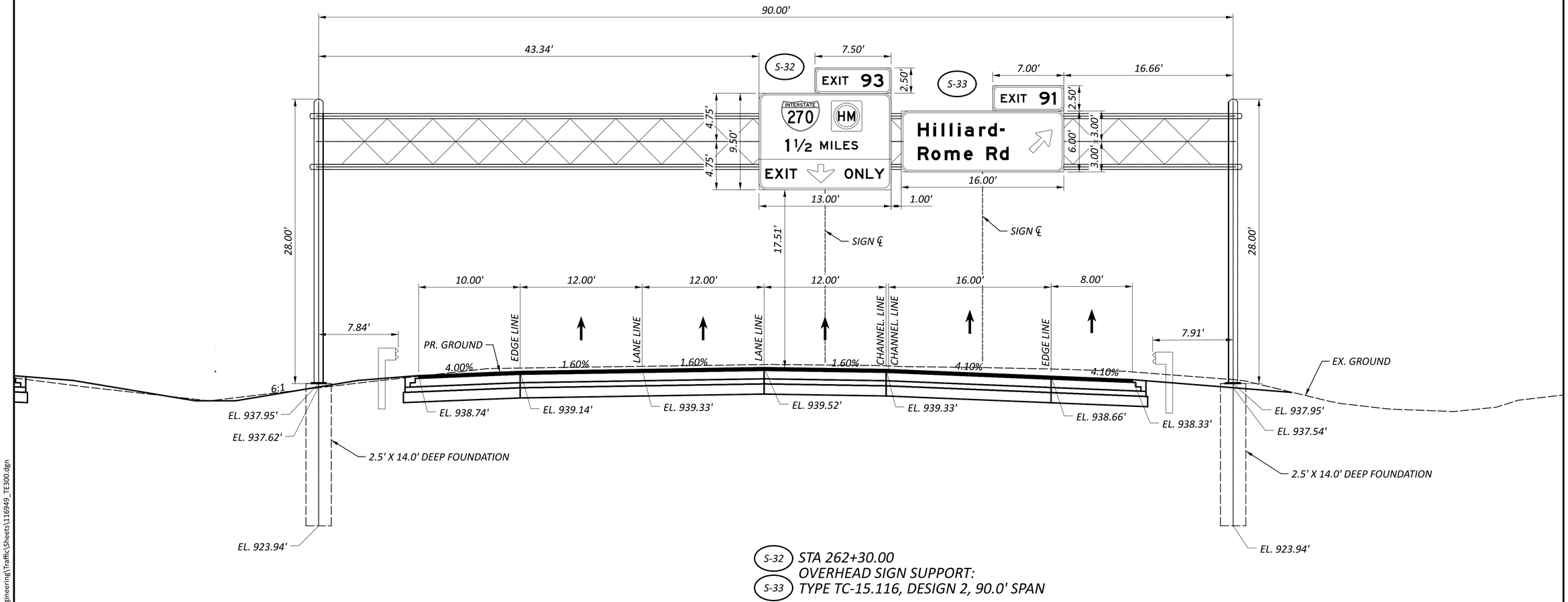

S-32 STA 262+30.00
OVERHEAD SIGN SUPPORT:
S-33 TYPE TC-15.116, DESIGN 2, 90.0' SPAN

HORIZONTAL SCALE IN FEET
0 2.5 5 10

TRAFFIC CONTROL SIGN ELEVATION DETAILS

DESIGN AGENCY
MOODY ENGINEERING
350 SPRUCE STREET SUITE 300 COLUMBUS, OHIO 43215 P: 614.280.9999 MOODY-ENG.COM

DESIGNER CNK
REVIEWER LET 08-14-24
PROJECT ID 116949
SHEET P.516 TOTAL 577

FRA-70-0.00

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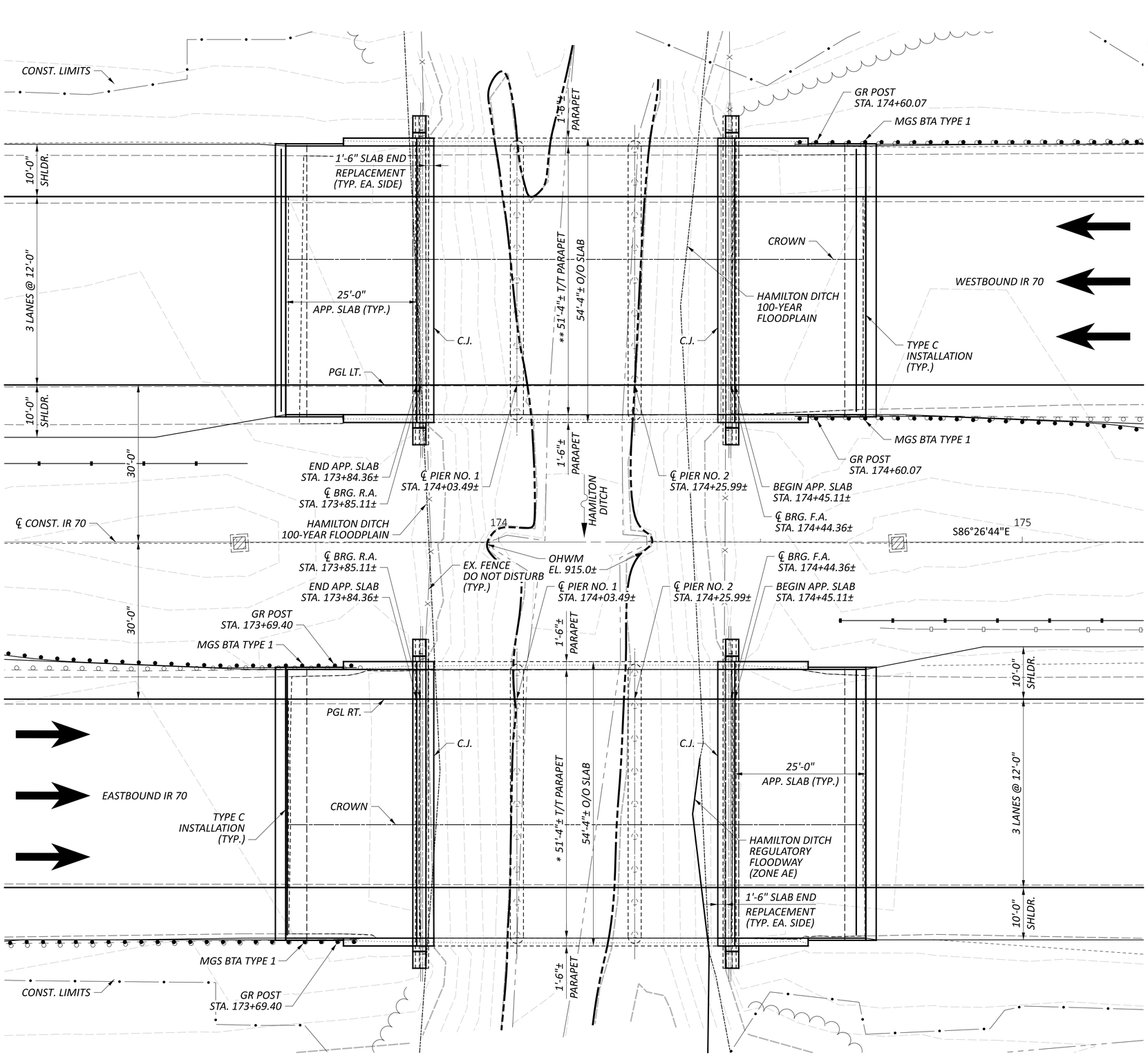

BENCHMARK DATA

TBM L	STA. 138+18.96	OFFSET 78.75' RT.	EL. 941.457
TBM C	STA. 173+84.88	OFFSET 78.53' LT.	EL. 924.063
TBM M	STA. 174+43.50	OFFSET 77.96' RT.	EL. 924.036

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 2 / 468.

HORIZONTAL SCALE IN FEET
0 5 10 20

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:
2026 ADT = 77,208 2026 ADTT = 21,619
2046 ADT = 124,068 2046 ADTT = 34,740
DIRECTIONAL DISTRIBUTION = 52%

LEGEND

** - PHASE 1 CONSTRUCTION*
*** - PHASE 2 CONSTRUCTION*
BTA - BRIDGE TERMINAL ASSEMBLY

EXISTING STRUCTURE

TYPE: CONTINOUS REINFORCED CONCRETE SLAB WITH REINFORCED CONCRETE CAPPED PILE SUBSTRUCTURES

SPANS: 18'-0"±, 22'-6"±, 18'-0"± C/C BRG.
ROADWAY: 51'-4"± F/F PARAPET
VEHICULAR LIVE LOAD: CF-2000 ADEQUATE FOR AASHO ALT. LOADING
SKEW: 00°00'00"
WEARING SURFACE: 1¾"± LATEX MODIFIED CONCRETE OVERLAY
APPROACH SLABS: A5-1-67 (25'-0"± LONG)
ALIGNMENT: TANGENT
CROWN: 3/16"±/FT
STRUCTURE FILE NUMBER: 2503816 / 2503840
DATE BUILT: 1970
DISPOSITION: TO BE REHABILITATED

PROPOSED STRUCTURE

PROPOSED WORK: REMOVE EX. OVERLAY AND REPLACE WITH 2" SUPERPLASTIZED DENSE CONCRETE OVERLAY. NEW FULL WIDTH APROACH SLABS AND INTEGRAL ABUTMENTS DOWN TO EX. FOOTINGS.
SPANS: 18'-4½"±, 22'-6"±, 18'-4½"± C/C BRG.
ROADWAY: 51'-4"± F/F PARAPET
VEHICULAR LIVE LOAD: CF-2000 ADEQUATE FOR AASHO ALT. LOADING
SKEW: 00°00'00"
WEARING SURFACE: 2" SUPERPLASTIZED DENSE CONCRETE (SDC) OVERLAY
APPROACH SLABS: 25'-0" LONG (AS-1-15, AS-2-15)
ALIGNMENT: TANGENT
CROWN: 3/16"±/FT
DECK AREA: 3,301 SF LEFT & RIGHT BRIDGE
COORDINATES: LATITUDE 39°58'44.28" N
LONGITUDE 83°11'14.63" W

SITE PLAN
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816
SFN 2503840
DESIGN AGENCY: STRUCTUREPOINT LLC
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 1 | TOTAL 15
SHEET P.517 | TOTAL 577

FRA-70-00.00

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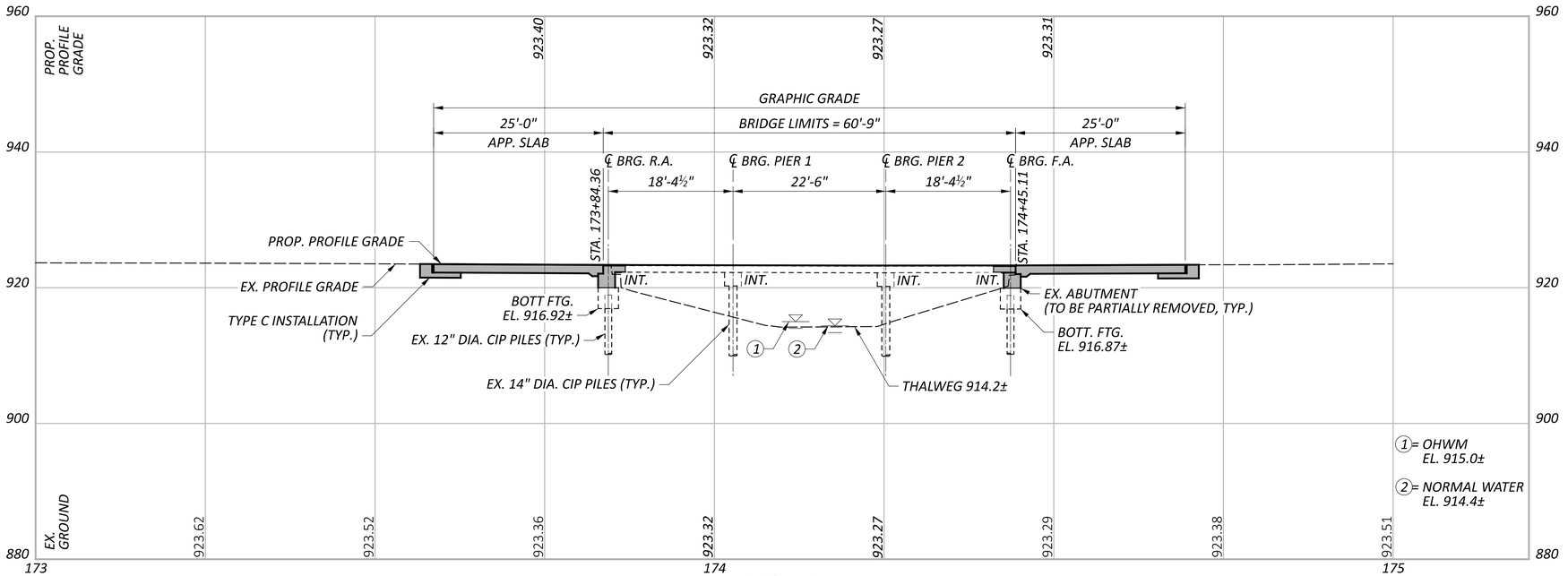
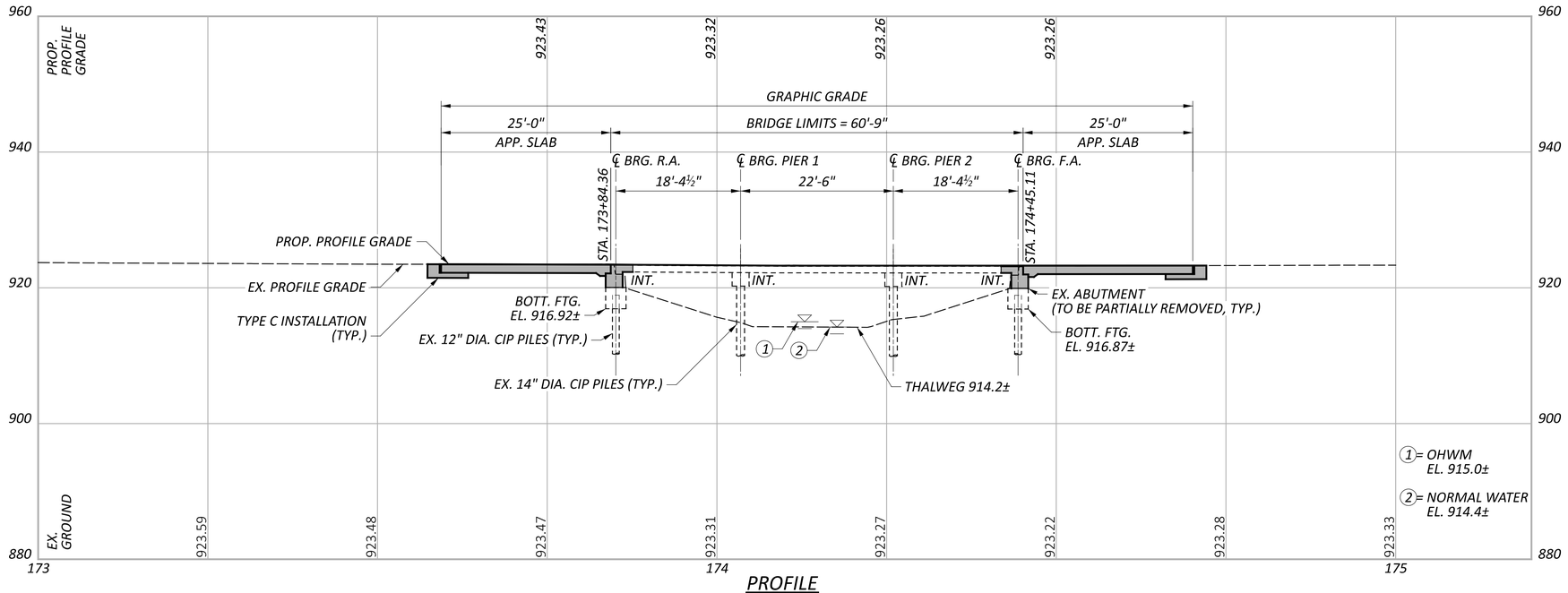


PROFILE
ALONG PGL LT.



PROFILE
ALONG PGL RT.

SITE PLAN - PROFILES
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816
DESIGN AGENCY STRUCTUREPOINT LLC
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 2 | TOTAL 15
SHEET P.518 | TOTAL 577

FRA-70-00.00

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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15	REVISED	01-20-23
AS-2-15	REVISED	01-20-23
CPA-1-08	REVISED	01-19-24

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFIFCATIONS:

SS848	REVISED	01-15-21

DESIGN SPECIFICATIONS:

THE PROPOSED WORK CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

CONCRETE REINFORCEMENT:

EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60-KSI (ALL)

PROPOSED WORK:

- REMOVE AND REPLACE PORTIONS OF EXISTING CONCRETE PARAPETS AND SLAB
- NEW INTEGRAL ABUTMENTS DOWN TO TOP OF EX. PILE CAP
- REMOVE AND REPLACE EXISTING OVERLAY WITH SDC OVERLAY
- NEW FULL WIDTH APPROACH SLABS
- SEAL CONCRETE SURFACES

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXSITING STRUCTURE PLANS:

CONSTRUCTION PLANS FOR THE EXISTING BRIDGE ARE ON FILE AT THE DEPARTMENT OF TRANSPORTATION, DISTRICT 6 OFFICE, 400 E. WILLIAM STREET, DELAWARE, OHIO AND ARE AVAILABLE FOR REFERENCE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:

DESCRIPTION:
THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPOSIVES, HEADACHE BALLS AND/OR HOE RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISITING CONCRETE REINFORCEMENT TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

CUTLINE CONSTRUCTION JOINT PREPARATION:
SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING CONCRETE REINFORCMENT, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING STEEL REINFORCEMENT DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL:
REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. THE DEPARTMENT WILL NOT PERMIT HYDRAULIC HOE-RAM TYPE HAMMERS. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

MEASUREMENT AND PAYMENT:
THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT CONCRETE REINFORCEMENT BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING STEEL REINFORCEMENT BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW CONCRETE REINFORCEMENT OF THE SAME SIZE, COATING, AND MATERIAL AT NO COST TO THE DEPARTMENT.

ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT:

PRIOR TO DRILLING HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISITNG BAR. THE DEPARTMENT WILL PAY FOR DOWEL HOLES AND GROUTING WITH ITEM 510, DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT.

ITEM 512 - SEALING OF CONCRETE SURFACE (NON-EPOXY), AS PER PLAN:

EXISTING SEALER SHALL BE REMOVED PRIOR TO APPLICATION OF NEW EPOXY-URETHANE SEALER.

ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05. IF, DURING THE JACKING OPERATIONS, DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION:

THIS WORK CONSISTS OF REPLACING AREAS OF CRUSHED AGGREGATE SLOPE PROTECTION DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN PROVIDED IN THE ESTIMATED QUANTITIES FOR BIDDING PURPOSES.

601, CRUSHED AGGREGATE SLOPE PROTECTION	25 SY

ABBREVIATION LIST:

THE FOLLOWING STANDARD ABBREVIATIONS ARE USED THROUGHOUT THE BRIDGE PLANS.

ABUT.	= ABUTMENT
A.T.G.	= ADJUST TO GRADE
BRG.	= BEARING
CB	= CATCH BASIN
C/C	= CENTER -TO-CENTER
C.J.	= CONSTRUCTION JOINT
CLR.	= CLEARANCE
CONST.	= CONSTRUCTION
DIA.	= DIAMETER
DWG.	= DRAWING
EA.	= EACH
E.F.	= EACH FACE
EL.	= ELEVATION
EST.	= ESTIMATED
EX.	= EXISTING
F.A.	= FORWARD ABUTMENT
F.D.S.	= FINAL DECK SURFACE
F.F.	= FRONT FACE
F.S.	= FAR SIDE
INV.	= INVERT
LT.	= LEFT
MH	= MANHOLE
N.P.C.P.P.	= NON-PERFORATED CORRUGATED PLASTIC PIPE
N.S.	= NEAR SIDE
O/O	= OUT-TO-OUT
P.C.P.P.	= PERFORATED CORRUGATED PLASTIC PIPE
PEJF	= PREFORMED EXPANSION JOINT FILLER
PROP.	= PROPOSED
R.A.	= REAR ABUTMENT
REQD.	= REQUIRED
RT.	= RIGHT
SER.	= SERIES
SHLD.	= SHOULDER
SPA.	= SPACES
STA.	= STATION
STD.	= STANDARD
STM	= STORM SEWER LINE
T&B	= TOP AND BOTTOM
T/S	= TOP OF SLOPE
T/T	= TOE-TO-TOE
TYP.	= TYPICAL

GENERAL NOTES

BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	CHECKER
SJF	CLB

REVIEWER: JCS 03/15/24

PROJECT ID: 116949

SUBSET	TOTAL
3	15

SHEET	TOTAL
P.519	577

FRA-70-00.00

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ESTIMATED QUANTITIES FRA-70-0329 R

CALCULATED BY: SJF DATE: 03/07/2024
CHECKED BY: CLB DATE: 03/21/2024

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIERS	SUPER STR.	GENERAL	SEE SHT. NO.
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	3/15
202	22900	200	SY	APPROACH SLAB REMOVED				200	
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING				LS	
503	21300	LS		UNCLASSIFIED EXCAVATION				LS	
509	10000	13723	LB	EPOXY COATED STEEL REINFORCEMENT	9323	2910	1490		
509	20001	700	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			700		3/15
510	10000	136	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	136				
511	34410	43	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			43		
511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			9		
512	10050	47	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	47				
512	10051	161	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN			161		3/15
512	33000	5	SY	TYPE 2 WATERPROOFING	5				
516	10010	109	FT	ARMORLESS PREFORMED JOINT SEAL				109	
516	13200	113	SF	1/2" PREFORMED EXPANSION JOINT FILLER	113				
516	13600	112	SF	1" PREFORMED EXPANSION JOINT FILLER	112				
516	14014	127	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	127				
516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	3/15
518	21200	53	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	53				
518	40000	126	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	126				
518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100				
526	25000	297	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				297	
526	90030	109	FT	TYPE C INSTALLATION				109	
601	20000	25	SY	CRUSHED AGGREGATE SLOPE PROTECTION	25				
848	10200	347	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK			347		
848	20000	310	SY	SURFACE PREPARATION USING HYDRODEMOLITION			310		
848	30200	2	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			2		
848	50000	4	SY	HAND CHIPPING			4		
848	50100	1	LS	TEST SLAB			1		
848	50320	547	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" THICK			547		
848	50340	4	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			4		

ESTIMATED QUANTITIES - RIGHT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816
DESIGN AGENCY AMEREN STRUCTUREPOINT INC.
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 4 | TOTAL 15
SHEET P.520 | TOTAL 577

FRA-70-00.00

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ESTIMATED QUANTITIES FRA-70-0329 L

CALCULATED BY: SJF DATE: 03/07/2024
CHECKED BY: CLB DATE: 03/21/2024

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIERS	SUPER STR.	GENERAL	SEE SHT. NO.
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	3/15
202	22900	200	SY	APPROACH SLAB REMOVED				200	
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING				LS	
503	21300	LS		UNCLASSIFIED EXCAVATION				LS	
509	10000	13723	LB	EPOXY COATED STEEL REINFORCEMENT	9323	2910	1490		
509	20001	700	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			700		3/15
510	10000	136	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	136				
511	34410	43	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			43		
511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			9		
512	10050	47	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	47				
512	10051	161	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN			161		3/15
512	33000	5	SY	TYPE 2 WATERPROOFING	5				
516	10010	109	FT	ARMORLESS PREFORMED JOINT SEAL				109	
516	13200	113	SF	1/2" PREFORMED EXPANSION JOINT FILLER	113				
516	13600	112	SF	1" PREFORMED EXPANSION JOINT FILLER	112				
516	14014	127	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	127				
516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	3/15
518	21200	53	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	53				
518	40000	126	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	126				
518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100				
526	25000	297	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				297	
526	90030	109	FT	TYPE C INSTALLATION				109	
601	20000	25	SY	CRUSHED AGGREGATE SLOPE PROTECTION	25				
848	10200	347	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK			347		
848	20000	310	SY	SURFACE PREPARATION USING HYDRODEMOLITION			310		
848	30200	2	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			2		
848	50000	4	SY	HAND CHIPPING			4		
848	50320	547	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" THICK			547		
848	50340	4	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			4		

ESTIMATED QUANTITIES - LEFT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503840

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER
JCS 03/15/24

PROJECT ID
116949

SUBSET	TOTAL
5	15

SHEET	TOTAL
P.521	577

FRA-70-00.00

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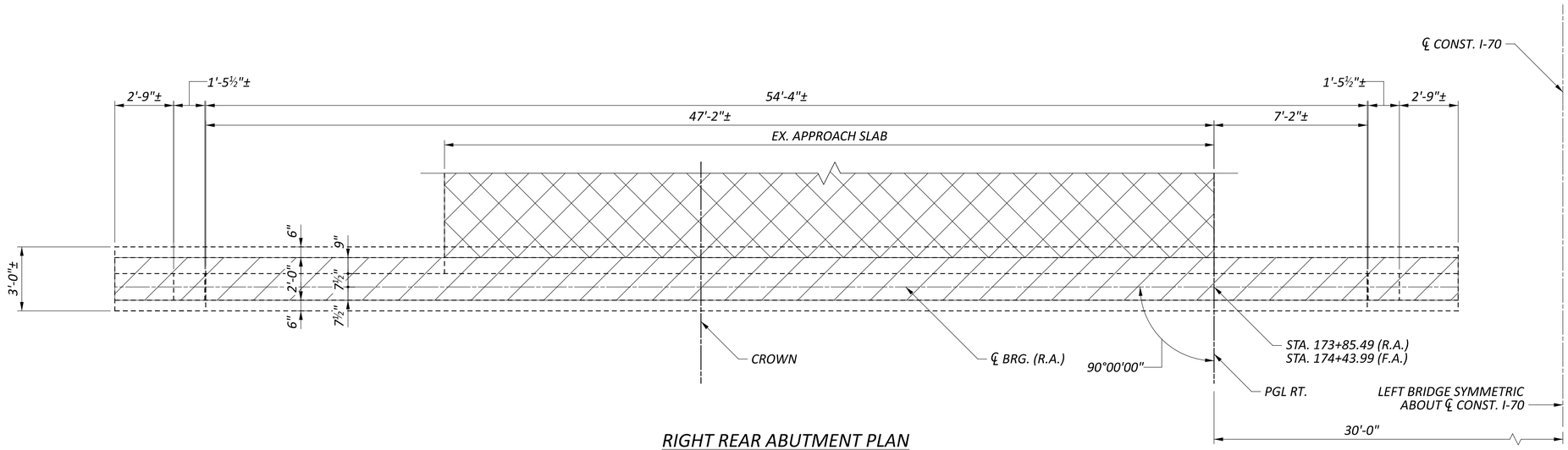
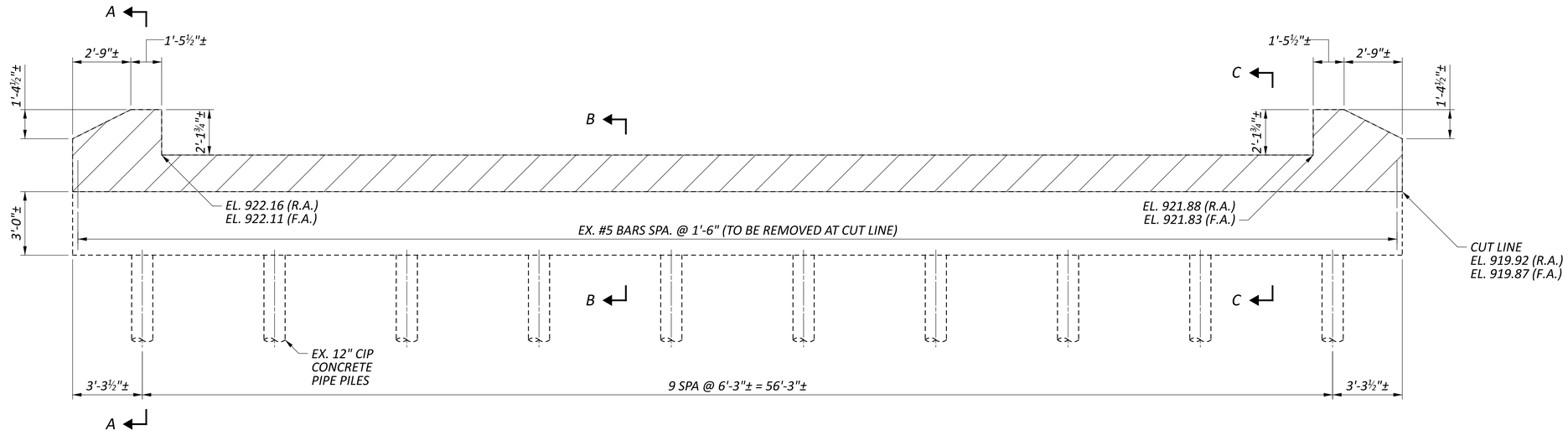


RIGHT REAR ABUTMENT PLAN

FORWARD ABUTMENTS SIMILAR BY 180° ROTATION



RIGHT REAR ABUTMENT ELEVATION

FORWARD ABUTMENTS SIMILAR BY 180° ROTATION

LEGEND

LIMITS OF REMOVAL PER ITEM 202. PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN

LIMITS OF REMOVAL PER ITEM 202. APPROACH SLAB REMOVED

NOTES:

FOR SECTIONS A-A, B-B, AND C-C, SEE SHEET 6/15.

ABUTMENT REMOVAL DETAILS 1 - RIGHT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816

DESIGN AGENCY: STRUCTUREPOINT

DESIGNER	CHECKER
SJF	CLB

REVIEWER: JCS 03/15/24

PROJECT ID: 116949

SUBSET	TOTAL
6	15

SHEET	TOTAL
P.522	577

FRA-70-00.00

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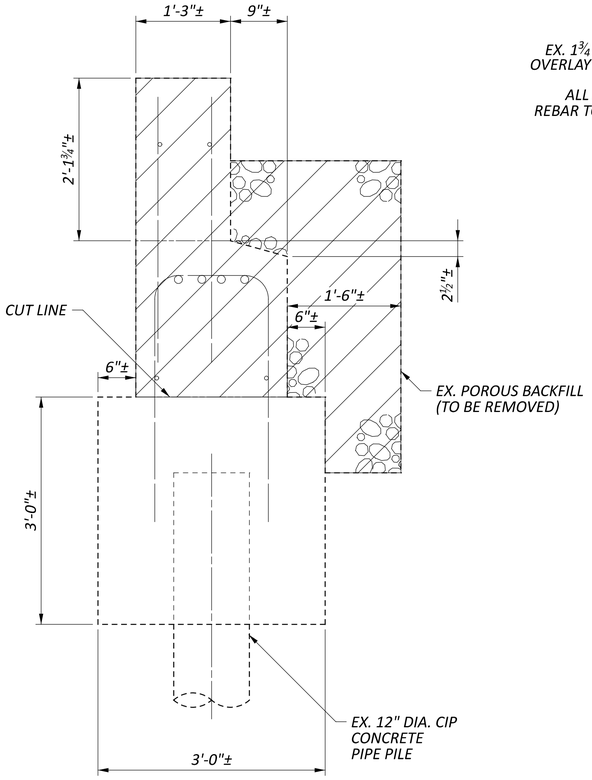
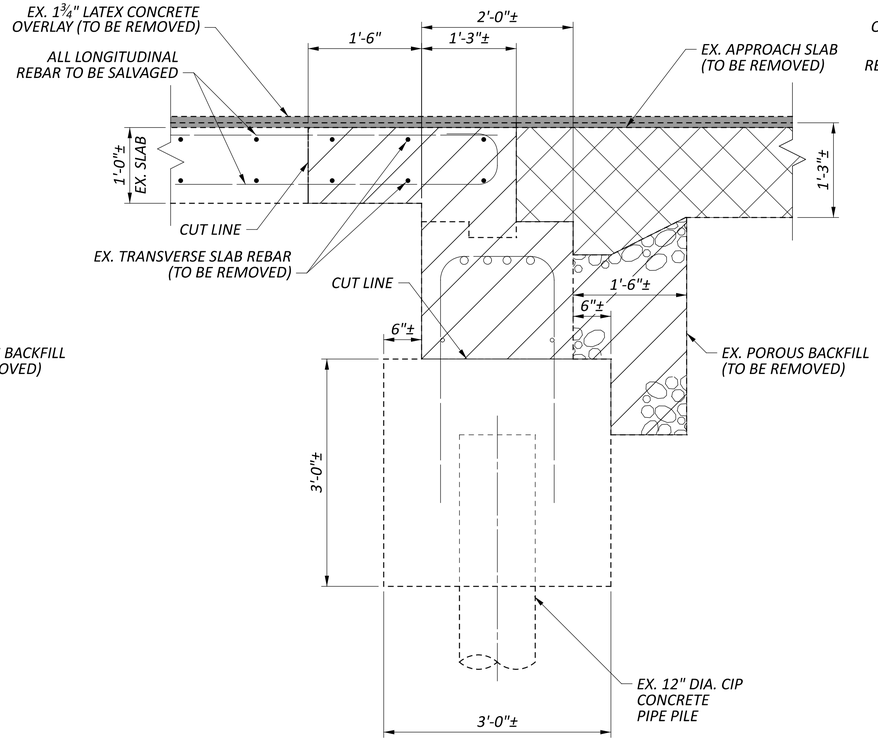


SECTION A-A



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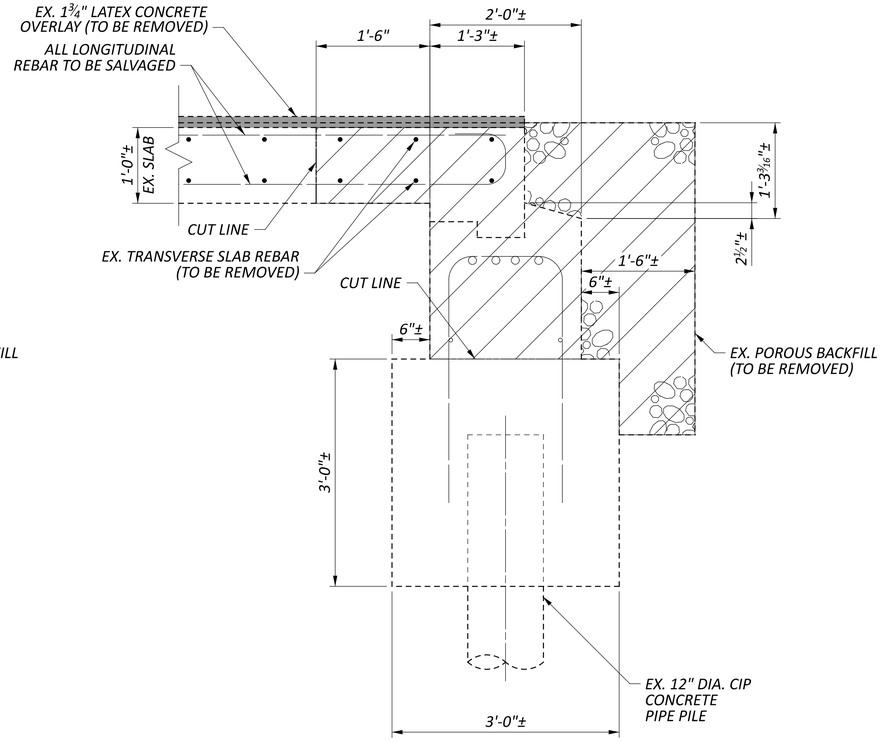
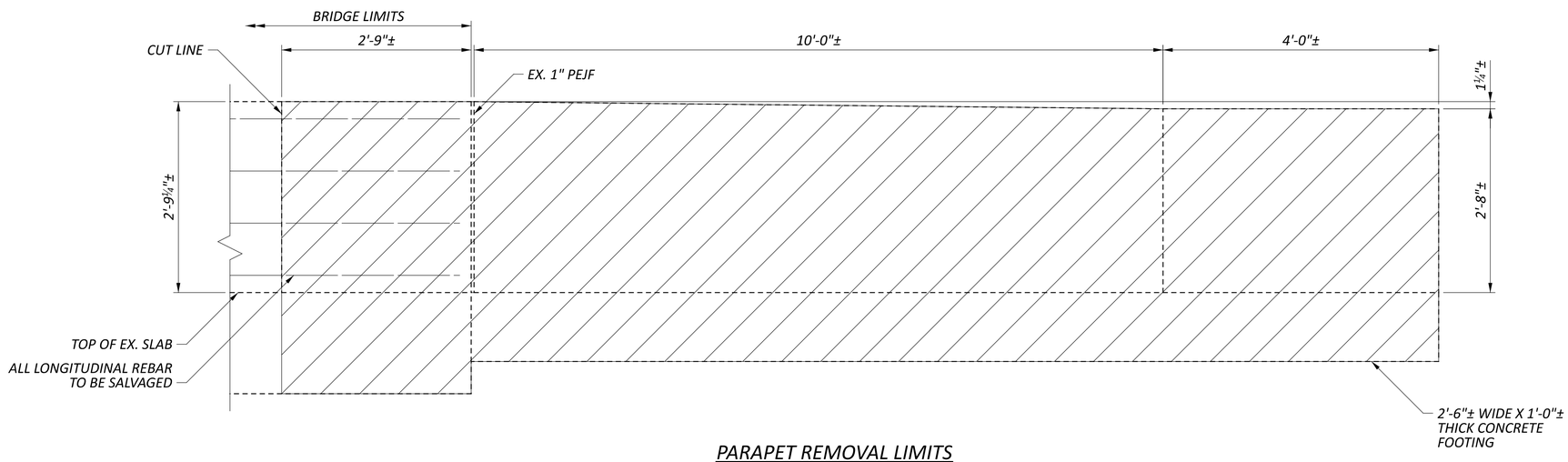


SECTION C-C



PARAPET REMOVAL LIMITS

TYPICAL ALL FOUR QUADRANTS, LEFT AND RIGHT BRIDGE

LEGEND

- LIMITS OF REMOVAL PER ITEM 202. PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN
- LIMITS OF REMOVAL PER ITEM 202. APPROACH SLAB REMOVED
- LIMITS OF REMOVAL PER ITEM 848. EXISTING CONCRETE OVERLAY REMOVED 1 3/4" NOMINAL THICKNESS

ABUTMENT REMOVAL DETAILS 2

BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R

I-70 OVER HAMILTON DITCH

FRA-70-00.00

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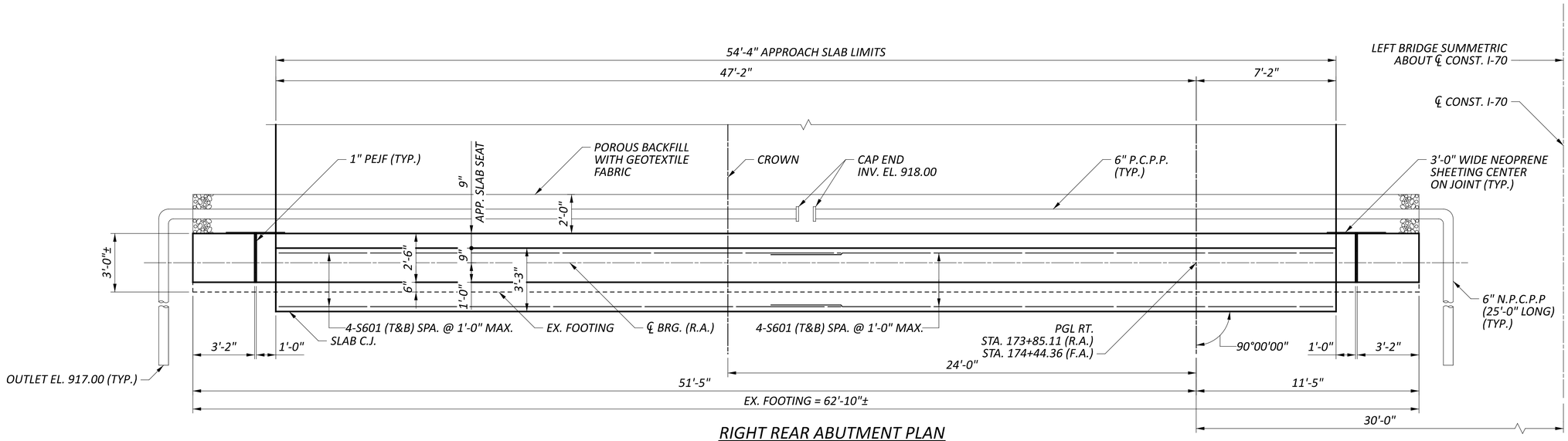
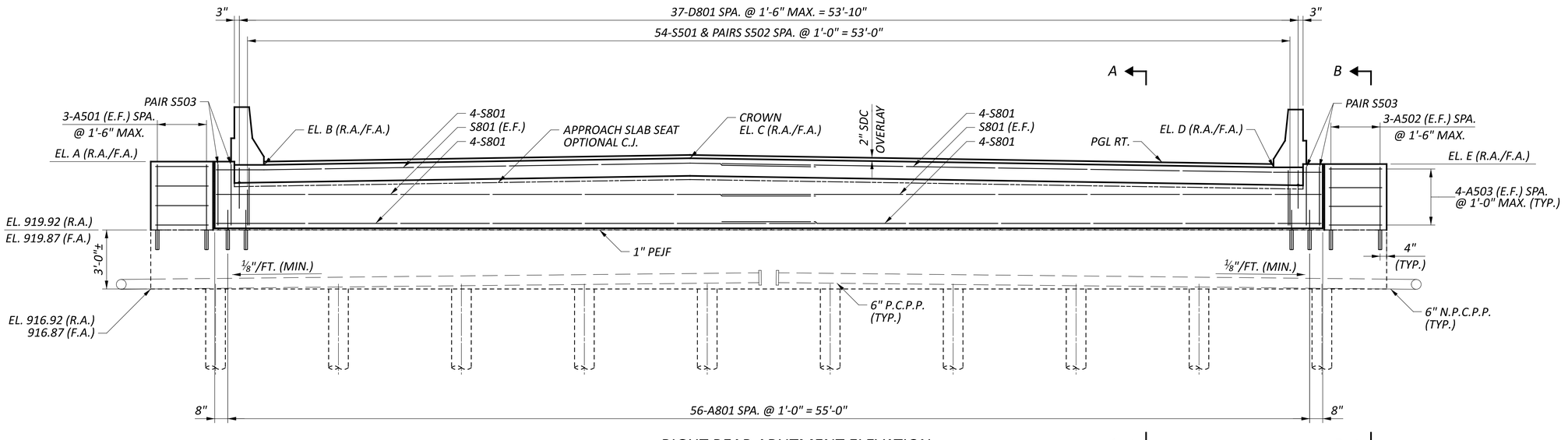
SFN	2503816
DESIGN AGENCY	STRUCTUREPOINT LLC
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	7
TOTAL	15
SHEET	P.523
TOTAL	577



RIGHT REAR ABUTMENT PLAN

FORWARD ABUTMENTS SIMILAR BY 180° ROTATION



RIGHT REAR ABUTMENT ELEVATION

FORWARD ABUTMENTS SIMILAR BY 180° ROTATION

MIN. BAR LAP	
#6	*3'-7"*
#8	*4'-9"*

ELEVATION TABLE (RIGHT BRIDGE)		
	R.A.	*F.A.*
EL. A	*923.46*	*923.17*
EL. B	*923.29*	*923.00*
EL. C	*923.63*	*923.47*
EL. D	*923.16*	*923.13*
EL. E	*923.33*	*923.30*

ELEVATION TABLE (LEFT BRIDGE)		
	R.A.	*F.A.*
EL. A	*923.39*	*923.20*
EL. B	*923.22*	*923.03*
EL. C	*923.39*	*923.50*
EL. D	*923.09*	*923.16*
EL. E	*923.26*	*923.33*

NOTES:

FOR SECTIONS A-A AND B-B, SEE SHEET 8/15.

ABUTMENT DETAILS 1 - RIGHT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER: JCS 03/15/24

PROJECT ID: 116949

SUBSET	TOTAL
8	15

SHEET	TOTAL
P.524	577

FRA-70-00.00

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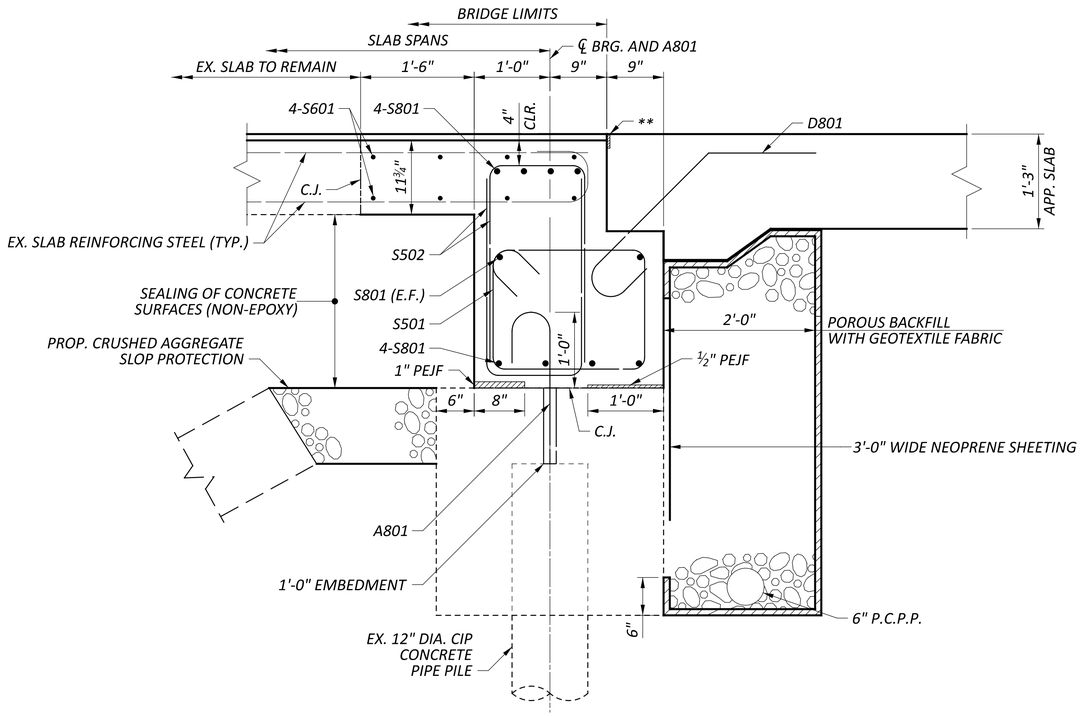
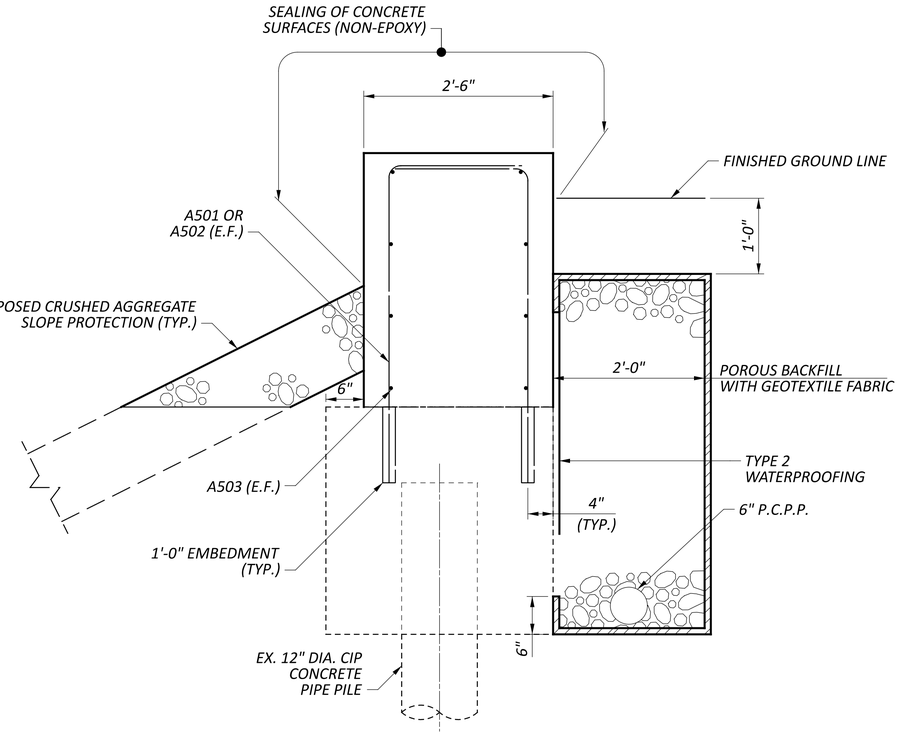


SECTION A-A

** SEE DETAIL "C" ON STANDARD DRAWING AS-1-81



SECTION B-B

ABUTMENT DETAILS 2

BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R

I-70 OVER HAMILTON DITCH

FRA-70-00.00

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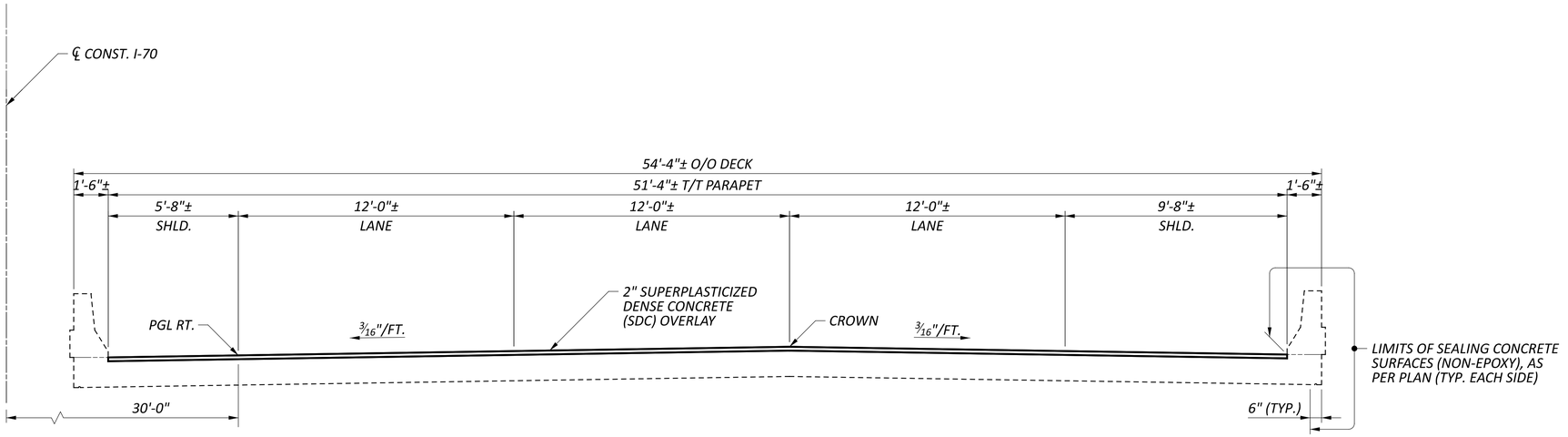
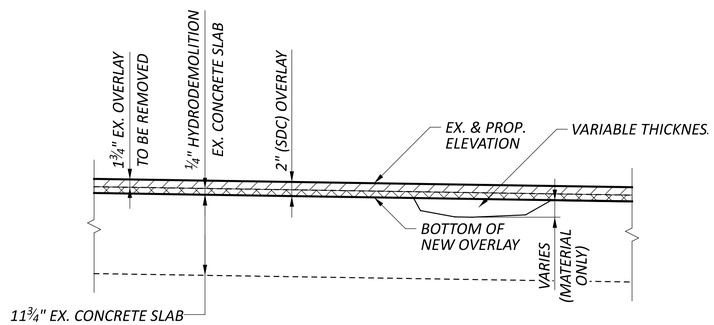
SFN	2503840
DESIGN AGENCY	WESTERN STRUCTUREPOINT INC.
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	9
TOTAL	15
SHEET	P.525
TOTAL	577



TRANSVERSE SECTION FRA-70-0329 R

RIGHT BRIDGE SHOWN, LEFT BRIDGE SYMMETRIC ABOUT ℄ CONST. I-70



OVERLAY DETAIL

LEGEND

REMOVAL OF EX. OVERLAY

REMOVAL USING HYDRODEMOLITION

TRANSVERSE SECTION - RIGHT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816

DESIGN AGENCY: WEPFER STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER: JCS 03/15/24

PROJECT ID: 116949

SUBSET	TOTAL
10	15

SHEET	TOTAL
P.526	577

FRA-70-00.00

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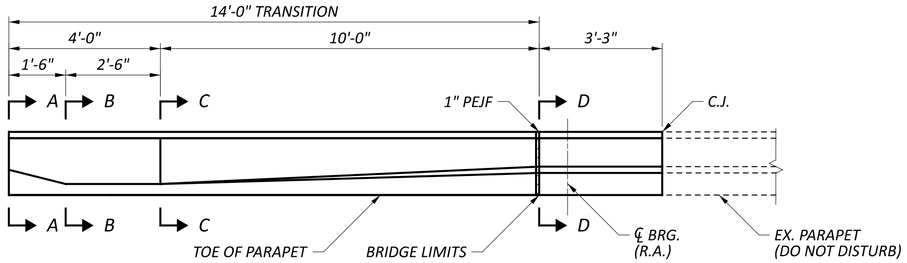
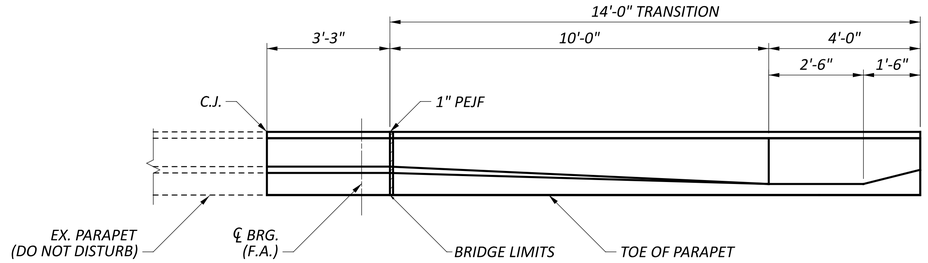
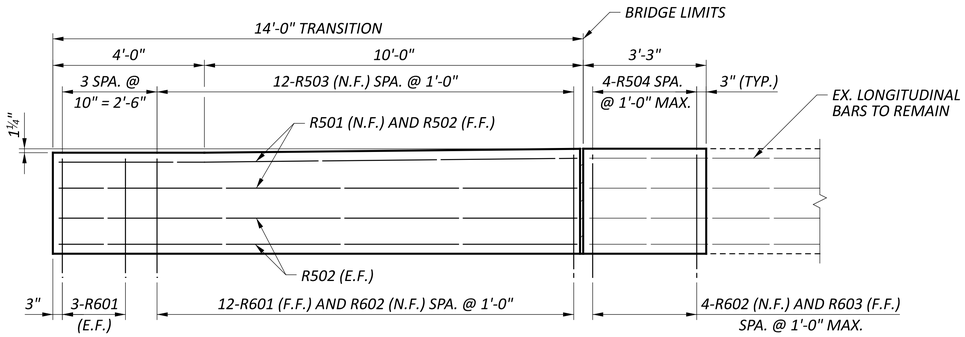
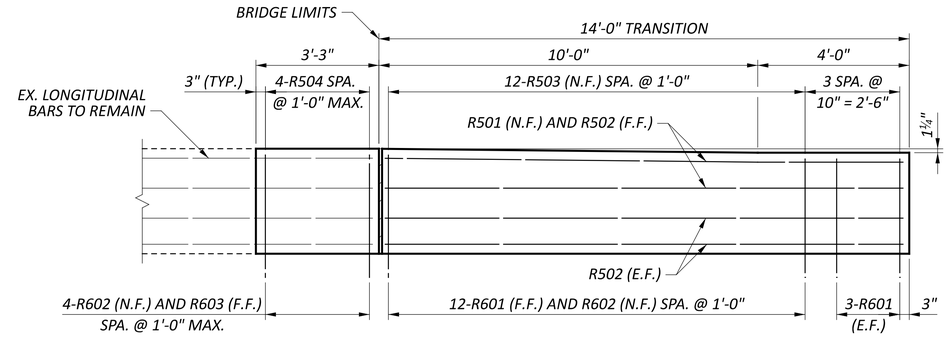




PARAPET PLAN - RIGHT BRIDGE

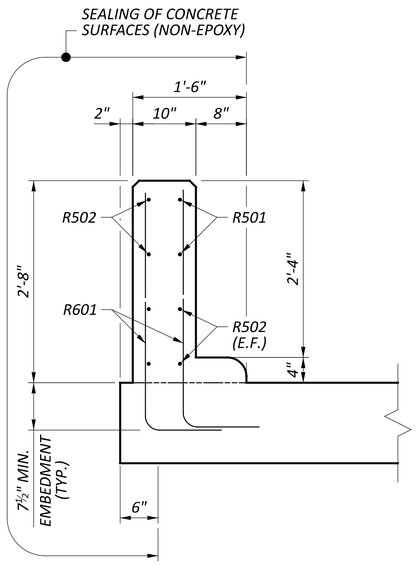
LEFT PARAPET SHOWN, RIGHT PARAPET SIMILAR
(LEFT BRIDGE PARAPET SIMILAR)



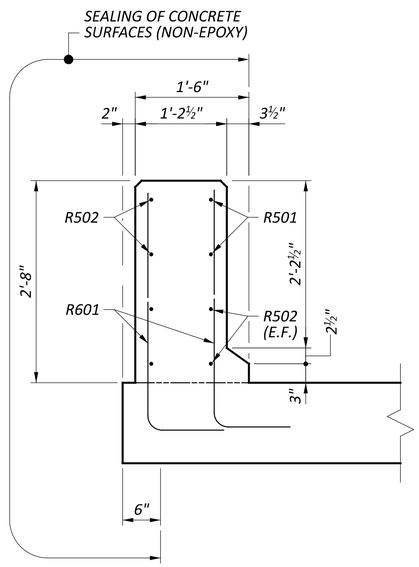


PARAPET ELEVATION - RIGHT BRIDGE

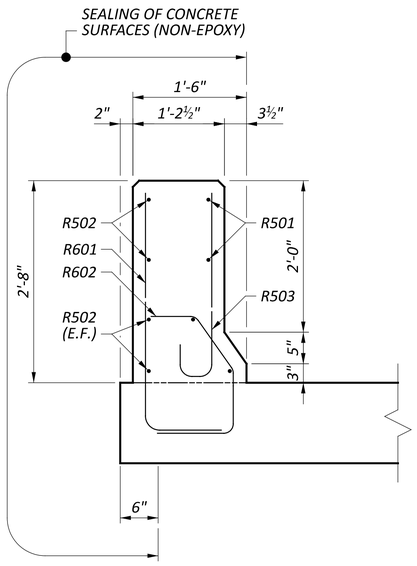
LEFT PARAPET SHOWN, RIGHT PARAPET SIMILAR
(LEFT BRIDGE PARAPET SIMILAR)



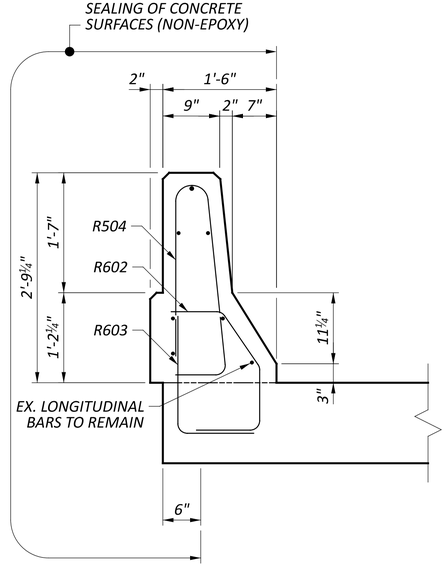
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

NOTES:

SEE STANDARD BRIDGE DRAWING BR-1-13 FOR ADDITIONAL DETAILS.

FOR BRIDGE TERMINAL ASSEMBLY, SEE STANDARD CONSTRUCTION DRAWING MSG 3.1 AND 3.2.

PARAPET DETAILS
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN	2503816
DESIGN AGENCY	STRUCTUREPOINT
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	11
TOTAL	15
SHEET	P.527
TOTAL	577

FRA-70-00.00

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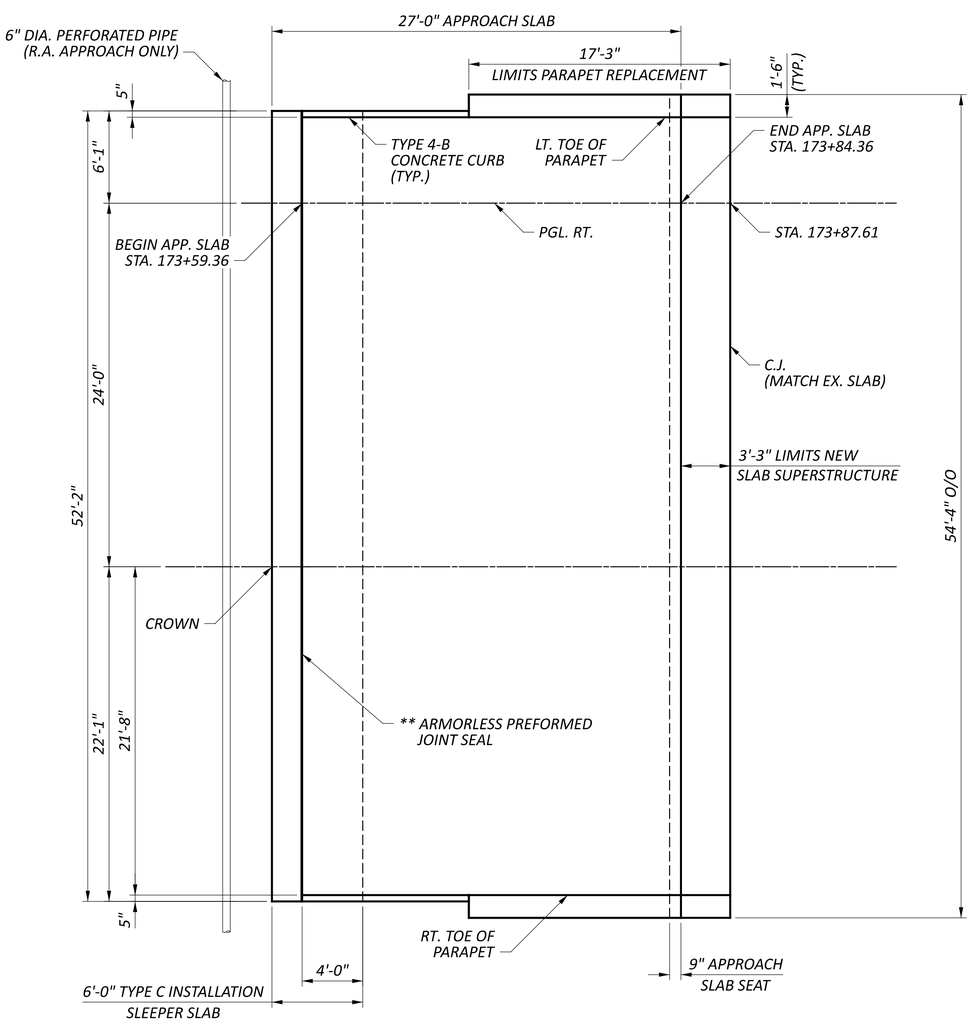
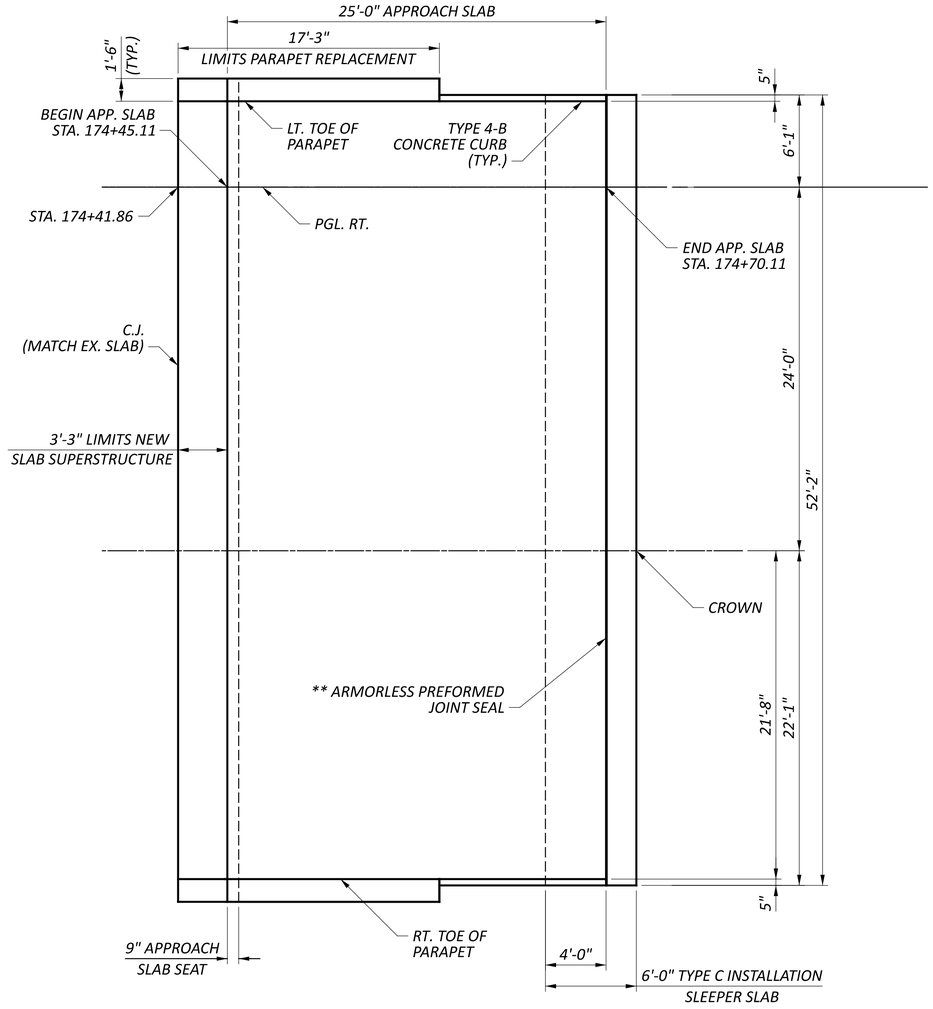


PLAN

REAR APPROACH - RIGHT BRIDGE



PLAN

FORWARD APPROACH - RIGHT BRIDGE

APPROACH SLAB ELEVATIONS (RIGHT BRIDGE)

APPROACH LINE \ DESCRIPTION		BEGIN REAR SLEEPER SLAB	BEGIN REAR APPROACH SLAB	END REAR SLEEPER SLAB	END REAR APPROACH SLAB	STRUCTURE LIMITS	BEGIN FWD. APPROACH SLAB	BEGIN FWD. SLEEPER SLAB	END FWD. APPROACH SLAB	END FWD. SLEEPER SLAB
LT. TOE PARAPET	STATION	173+57.36	173+59.36	173+63.36	173+84.36		174+45.11	174+66.11	174+70.11	174+72.11
	OFFSET	29.67	29.67	29.67	29.67		29.67	29.67	29.67	29.67
	ELEVATION	923.38	923.38	922.12	923.33		923.17	921.93	923.18	923.18
PGL RT.	STATION	173+57.36	173+59.36	173+63.36	173+84.36		174+45.11	174+66.11	174+70.11	174+72.11
	OFFSET	24.00	24.00	24.00	24.00		24.00	24.00	24.00	24.00
	ELEVATION	923.47	923.47	922.21	923.42		923.26	922.02	923.27	923.27
CROWN	STATION	173+57.36	173+59.36	173+63.36	173+84.36		174+45.11	174+66.11	174+70.11	174+72.11
	OFFSET	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	ELEVATION	923.85	923.85	922.59	923.80		923.64	922.40	923.65	923.65
RT. TOE PARAPET	STATION	173+57.36	173+59.36	173+63.36	173+84.36		174+45.11	174+66.11	174+70.11	174+72.11
	OFFSET	21.67	21.67	21.67	21.67		21.67	21.67	21.67	21.67
	ELEVATION	923.51	923.51	922.25	923.46		923.30	922.06	923.31	923.31

**SEE STANDARD DRAWINGS AS-2-15 SHEET 7/14
FOR EXPANSION JOINT OPENING TABLE

NOTES:

FOR STANDARD APPROACH SLAB DETIALS, SEE STANDARDS DRAWING AS-1-15.

FOR STANDARD APPROACH SLAB TYPE C INSTALLATION DETAILS, SEE STANDARD DRAWING AS-2-15.

APPROACH SLABS SHALL NOT BE POURED WITH BRIDGE DECK.

ELEVATIONS GIVEN AT TOP OF APPROACH SLAB AND SLEEPER SLAB.

APPROACH DETAILS - RIGHT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 12 | TOTAL 15
SHEET P.528 | TOTAL 577

FRA-70-00.00

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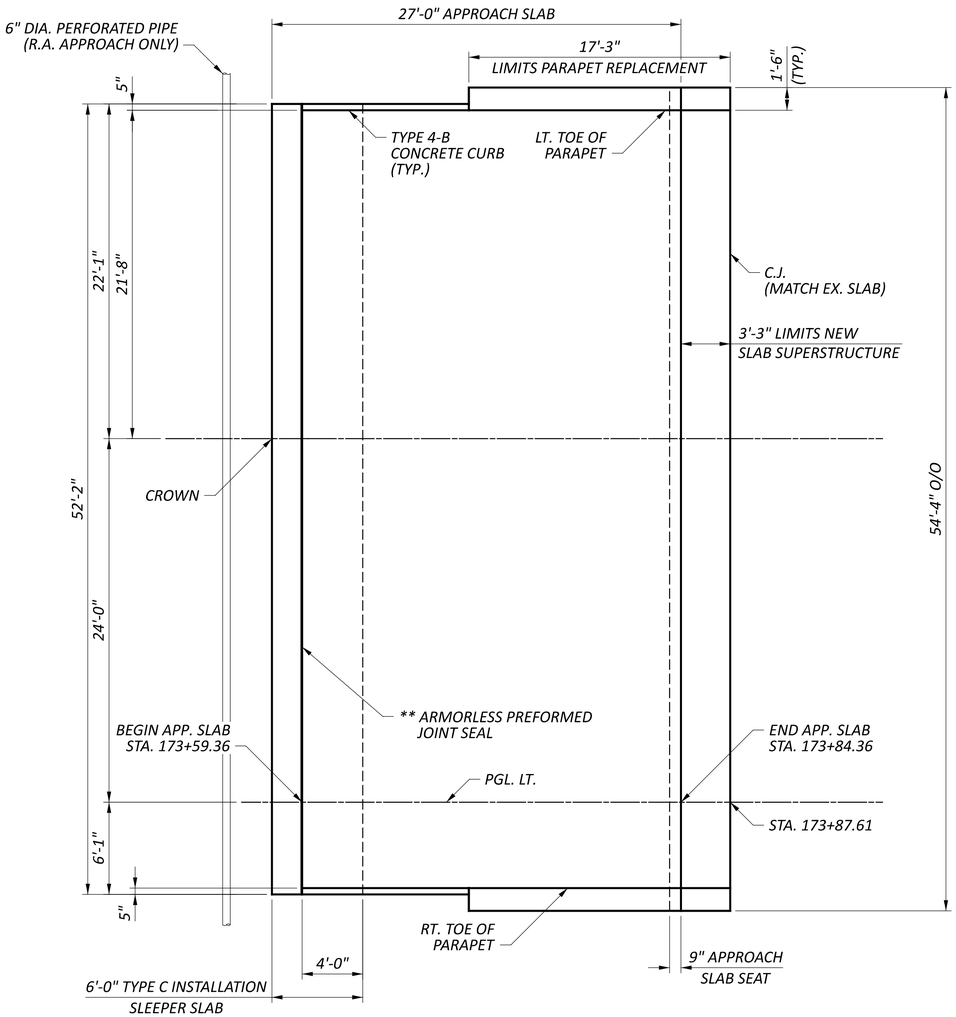
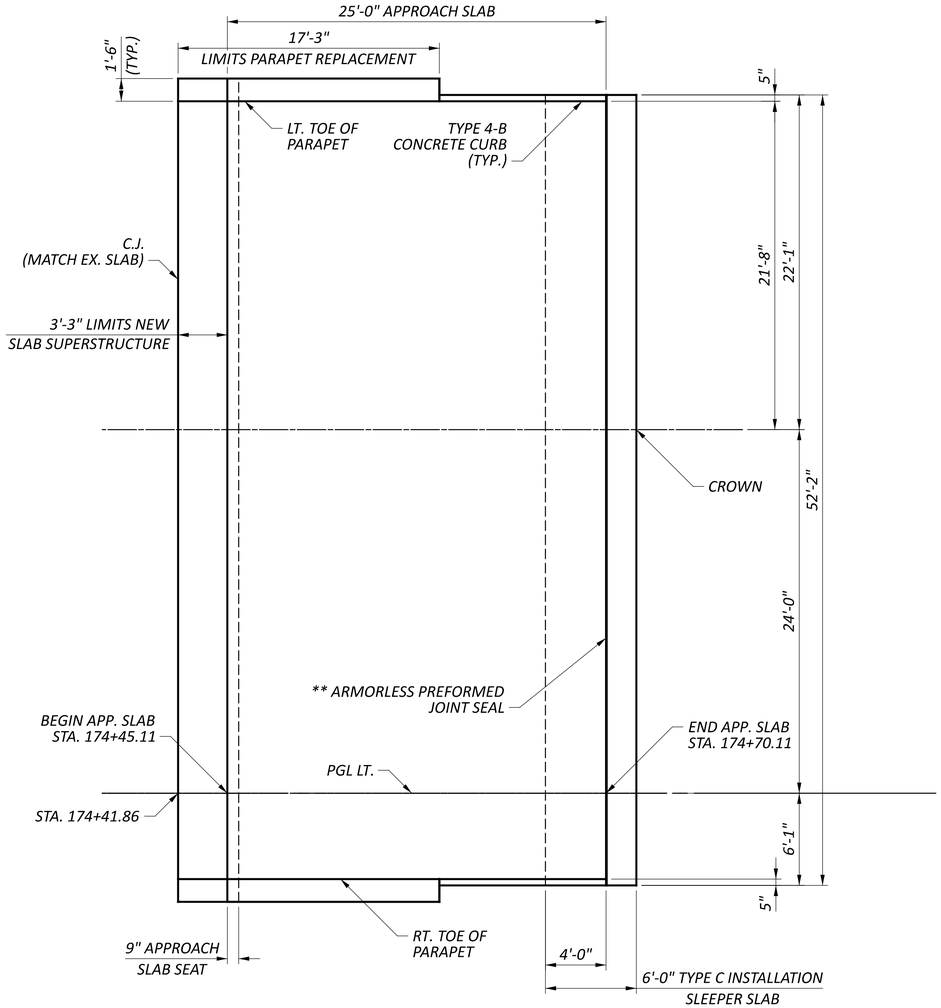


PLAN

REAR APPROACH - LEFT BRIDGE



PLAN

FORWARD APPROACH - LEFT BRIDGE

APPROACH SLAB ELEVATIONS (LEFT BRIDGE)

APPROACH LINE	DESCRIPTION	BEGIN REAR SLEEPER SLAB	BEGIN REAR APPROACH SLAB	END REAR SLEEPER SLAB	END REAR APPROACH SLAB	STRUCTURE LIMITS	BEGIN FWD. APPROACH SLAB	BEGIN FWD. SLEEPER SLAB	END FWD. APPROACH SLAB	END FWD. SLEEPER SLAB
LT. TOE PARAPET	STATION	173+57.36	173+59.36	173+63.36	173+84.36		174+45.11	174+66.11	174+70.11	174+72.11
	OFFSET	21.67	21.67	21.67	21.67		21.67	21.67	21.67	21.67
	ELEVATION	923.53	923.52	922.25	923.39		923.33	922.16	923.42	923.42
CROWN	STATION	173+57.36	173+59.36	173+63.36	173+84.36		174+45.11	174+66.11	174+70.11	174+72.11
	OFFSET	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	ELEVATION	923.87	923.86	922.59	923.73		923.67	922.50	923.76	923.76
PGL LT.	STATION	173+57.36	173+59.36	173+63.36	173+84.36		174+45.11	174+66.11	174+70.11	174+72.11
	OFFSET	24.00	24.00	24.00	24.00		24.00	24.00	24.00	24.00
	ELEVATION	923.49	923.48	922.21	923.35		923.29	922.12	923.38	923.38
RT. TOE PARAPET	STATION	173+57.36	173+59.36	173+63.36	173+84.36		174+45.11	174+66.11	174+70.11	174+72.11
	OFFSET	29.67	29.67	29.67	29.67		29.67	29.67	29.67	29.67
	ELEVATION	923.40	923.39	922.12	923.26		923.20	922.03	923.29	923.29

**SEE STANDARD DRAWINGS AS-2-15 SHEET 7/14
FOR EXPANSION JOINT OPENING TABLE

NOTES:

FOR STANDARD APPROACH SLAB DETIALS, SEE STANDARDS DRAWING AS-1-15.

FOR STANDARD APPROACH SLAB TYPE C INSTALLATION DETAILS, SEE STANDARD DRAWING AS-2-15.

APPROACH SLABS SHALL NOT BE POURED WITH BRIDGE DECK.

ELEVATIONS GIVEN AT TOP OF APPROACH SLAB AND SLEEPER SLAB.

APPROACH DETAILS - LEFT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503840
DESIGN AGENCY STRUCTUREPOINT LLC
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 13 | TOTAL 15
SHEET P.529 | TOTAL 577

FRA-70-00.00

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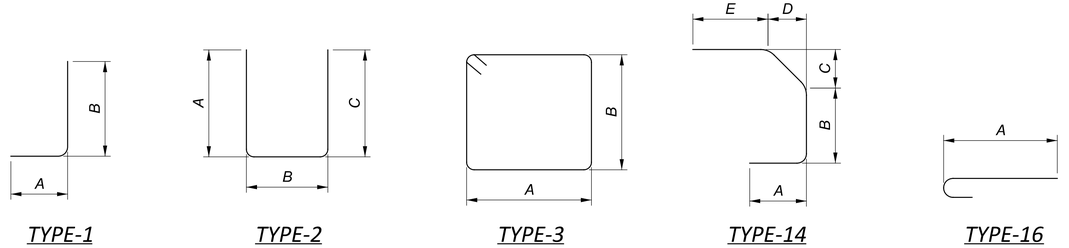
MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	R.A.	F.A.	TOTAL				A	B	C	D	E	R	INC
ABUTMENT													
A501	6	6	12	6'-0"	75	1	1'-10"	4'-4"					
A502	6	6	12	5'-11"	74	1	1'-10"	4'-2 ½"					
A503	16	16	32	2'-9"	92	STR							
A801	56	56	112	2'-10"	847	16	2'-0"						
D801	37	37	74	4'-9"	939	18	2'-7"	1'-0"	1'-0"				
S501	54	54	108	8'-6"	957	3	2'-2"	1'-9"					
S502	108	108	216	7'-0"	1577	2	2'-11"	1'-5"	2'-11"				
S503	8	8	16	7'-8"	128	2	2'-10 ½"	2'-2"	2'-10 ½"				
S601	16	16	32	28'-10"	1386	STR							
S801	20	20	40	30'-5"	3248	STR							
SUB-TOTAL					9,323								

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
PARAPET											
R501	8	13'-10"	115	25	10'-0"	2'-5"	1'-4 ½"	0'-1 ½"	0'-5"		
R502	24	13'-10"	346	STR							
R503	48	3'-0"	150	16	2'-5"						
R504	16	5'-6"	92	23	0'-8"	2'-6"	2'-3"			0'-1½"	
R601	72	4'-0"	433	1	1'-0"	3'-1 ½"					
R602	64	3'-1"	296	14	1'-0"	0'-10"	0'-8 ½"	0'-6"	0'-7"		
R603	16	2'-5"	58	1	1'-0"	1'-6 ½"					
SUB-TOTAL			1,490								



NOTES:

ALL CONCRETE REINFORCEMENT SHALL BE EPOXY COATED STEEL REINFORCEMENT, GRADE 60

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR.
"R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
"STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

REINFORCING LIST - RIGHT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503816
DESIGN AGENCY STRUCTUREPOINT LLC
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 14 | TOTAL 15
SHEET P.530 | TOTAL 577

FRA-70-00.00

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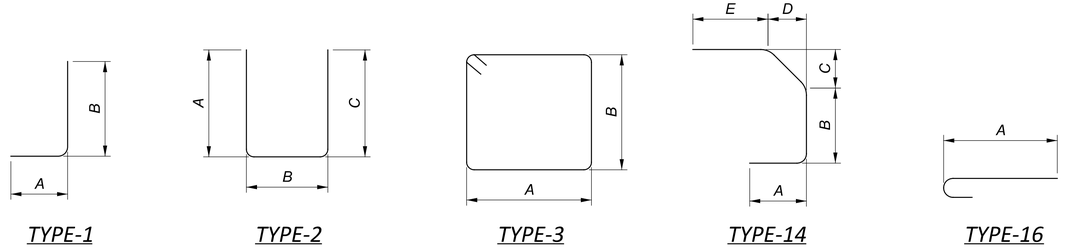
MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	R.A.	F.A.	TOTAL				A	B	C	D	E	R	INC
ABUTMENT													
A501	6	6	12	6'-0"	75	1	1'-10"	4'-4"					
A502	6	6	12	5'-11"	74	1	1'-10"	4'-2 ½"					
A503	16	16	32	2'-9"	92	STR							
A801	56	56	112	2'-10"	847	16	2'-0"						
D801	37	37	74	4'-9"	939	18	2'-7"	1'-0"	1'-0"				
S501	54	54	108	8'-6"	957	3	2'-2"	1'-9"					
S502	108	108	216	7'-0"	1577	2	2'-11"	1'-5"	2'-11"				
S503	8	8	16	7'-8"	128	2	2'-10 ½"	2'-2"	2'-10 ½"				
S601	16	16	32	28'-10"	1386	STR							
S801	20	20	40	30'-5"	3248	STR							
			SUB-TOTAL		9,323								

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
PARAPET											
R501	8	13'-10"	115	25	10'-0"	2'-5"	1'-4 ½"	0'-1 ½"	0'-5"		
R502	24	13'-10"	346	STR							
R503	48	3'-0"	150	16	2'-5"						
R504	16	5'-6"	92	23	0'-8"	2'-6"	2'-3"			0'-1½"	
R601	72	4'-0"	433	1	1'-0"	3'-1 ½"					
R602	64	3'-1"	296	14	1'-0"	0'-10"	0'-8 ½"	0'-6"	0'-7"		
R603	16	2'-5"	58	1	1'-0"	1'-6 ½"					
		SUB-TOTAL	1,490								



NOTES:

ALL CONCRETE REINFORCEMENT SHALL BE EPOXY COATED STEEL REINFORCEMENT, GRADE 60

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR.
"R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
"STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

REINFORCING LIST - LEFT BRIDGE
BRIDGE NO. FRA-70-03290 L / FRA-70-03290 R
I-70 OVER HAMILTON DITCH

SFN 2503840

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER
JCS 03/15/24

PROJECT ID
116949

SUBSET	TOTAL
15	15

SHEET	TOTAL
P.531	577

FRA-70-00.00

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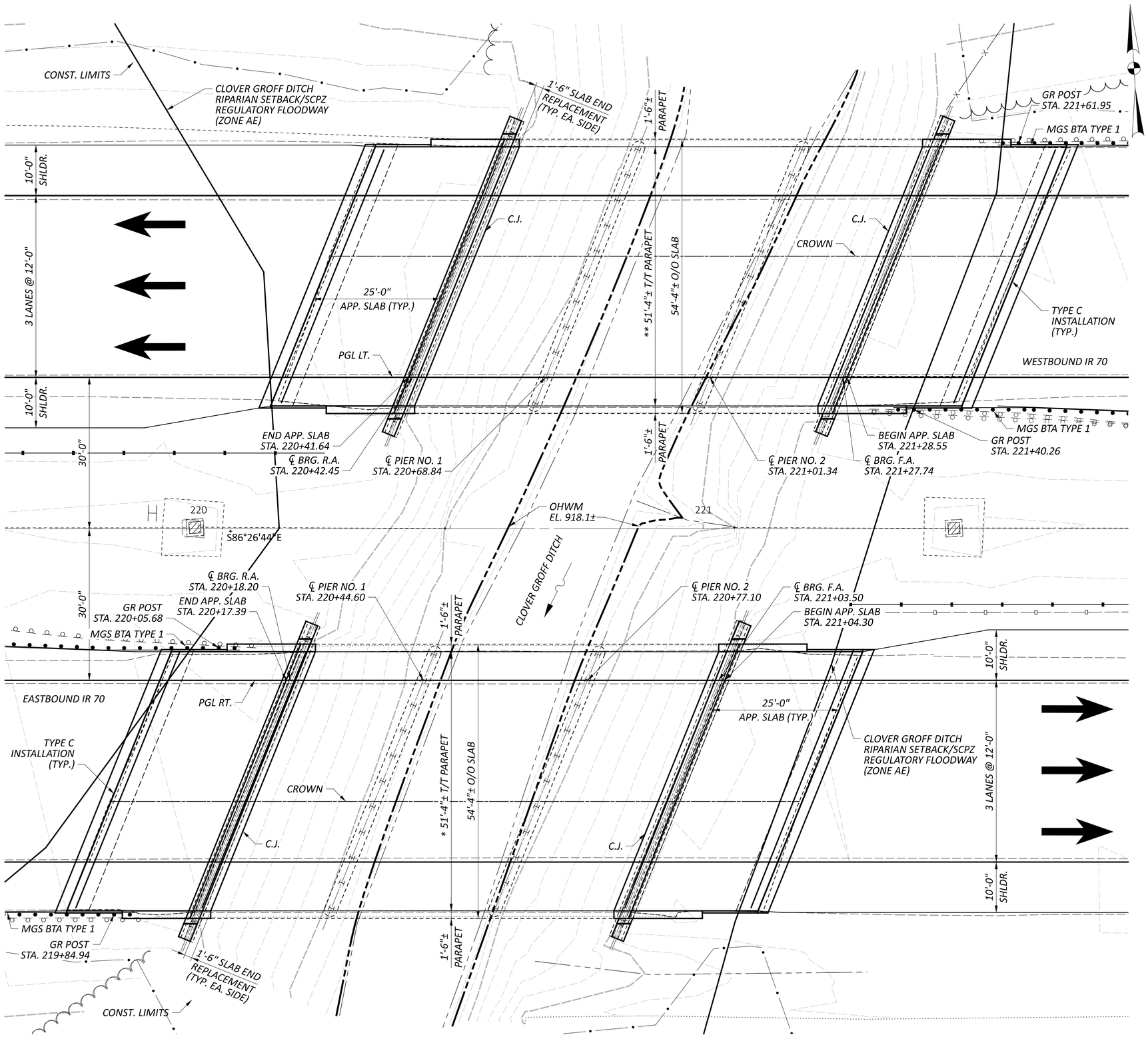

BENCHMARK DATA

TBM N	STA. 202+41.88	OFFSET 78.92' RT.	EL. 934.344
TBM O	STA. 220+84.30	OFFSET 78.96' RT.	EL. 928.800
TBM B	STA. 221+46.70	OFFSET 78.52' LT.	EL. 928.932

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 2 / 468.

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:
2026 ADT = 77,208 2026 ADTT = 21,619
2046 ADT = 124,068 2046 ADTT = 34,740
DIRECTIONAL DISTRIBUTION = 52%

LEGEND

** - PHASE 1 CONSTRUCTION*
*** - PHASE 2 CONSTRUCTION*
BTA - BRIDGE TERMINAL ASSEMBLY

EXISTING STRUCTURE

TYPE: CONTINOUS REINFORCED CONCRETE SLAB WITH REINFORCED CONCRETE CAPPED PILE SUBSTRUCTURES

SPANS: 26'-0"±, 32'-6"±, 26'-0"± C/C BRG.
ROADWAY: 51'-4"± F/F OF PARAPETS
VEHICULAR LIVE LOAD: CF-2000 ADEQUATE FOR AASHTO ALT. LOADING
SKEW: 22°00'00" LEFT FORWARD
WEARING SURFACE: 1¾"± LATEX MODIFIED CONCRETE OVERLAY
APPROACH SLABS: A5-1-67 (25'-0"± LONG)
ALIGNMENT: TANGENT
CROWN: 3/16"± /FT
STRUCTURE FILE NUMBER: 2503905/2503964
DATE BUILT: 1970
DISPOSITION: TO BE REHABILITATED

PROPOSED STRUCTURE

PROPOSED WORK: REMOVE EX. OVERLAY AND REPLACE WITH 2" SUPERPLASTIZED DENSE CONCRETE OVERLAY. NEW FULL WIDTH APROACH SLABS AND INTEGRAL ABUTMENTS DOWN TO EX. FOOTINGS.
SPANS: 26'-4¾"±, 32'-6"±, 26'-4¾"± C/C BRG.
ROADWAY: 51'-4"± F/F OF PARAPETS
VEHICULAR LIVE LOAD: CF-2000 ADEQUATE FOR AASHTO ALT. LOADING
SKEW: 22°00'00" LEFT FORWARD
WEARING SURFACE: 2" SUPERPLASTIZED DENSE CONCRETE (SDC) OVERLAY
APPROACH SLABS: 25'-0" LONG (AS-1-15, AS-2-15)
ALIGNMENT: TANGENT
CROWN: 3/16"± /FT
DECK AREA: 4,724 SF LEFT AND RIGHT BRIDGE
COORDINATES: LATITUDE 39°58'41.47" N
LONGITUDE 83°10'15.06" W

HORIZONTAL SCALE IN FEET
0 5 10 20

SITE PLAN
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN 2503905
SFN 2503964
DESIGN AGENCY STRUCTUREPOINT LLC
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 1 | TOTAL 17
SHEET P.532 | TOTAL 577

FRA-70-00.00

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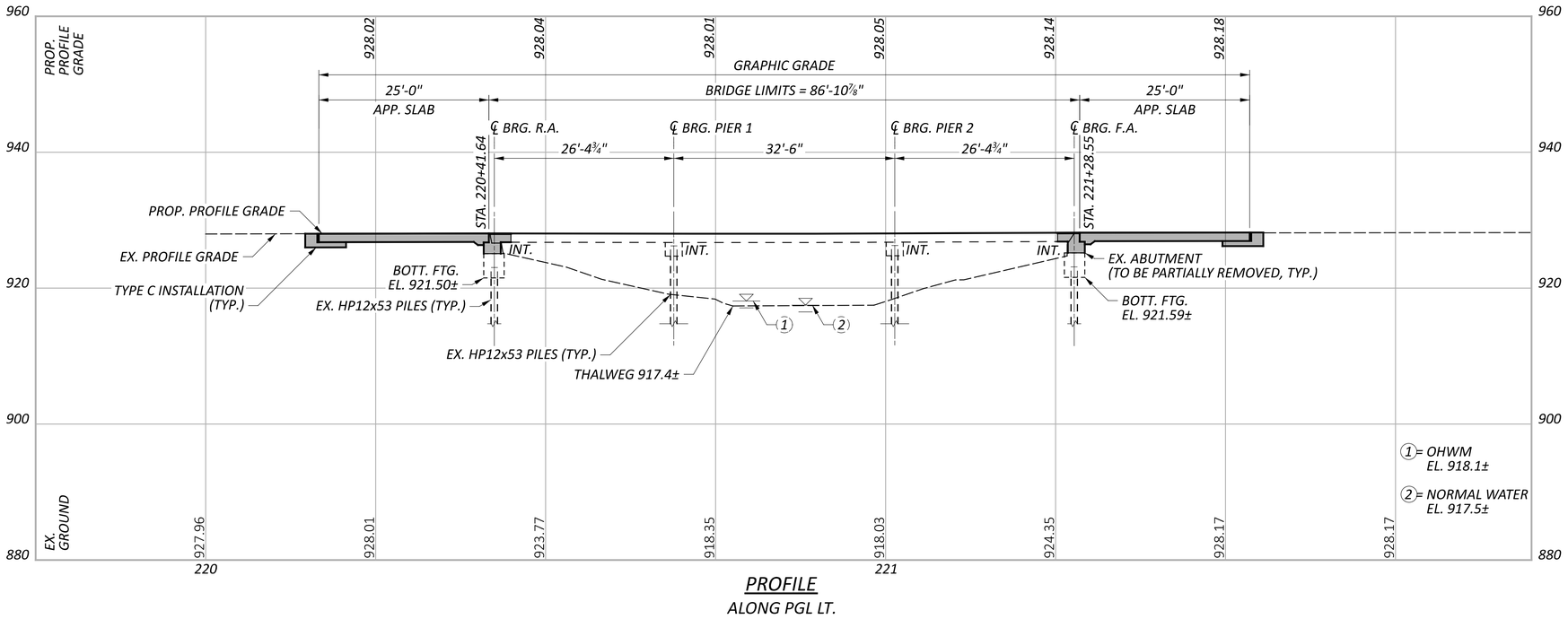
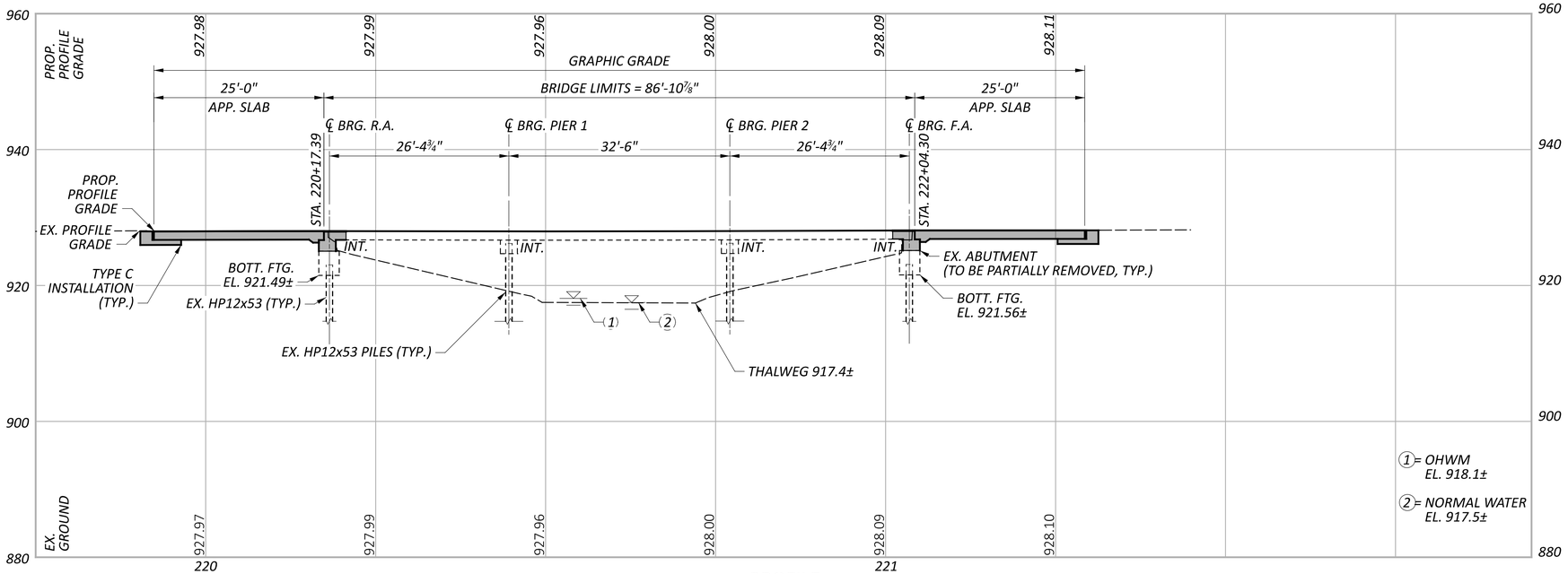


PROFILE
ALONG PGL LT.



PROFILE
ALONG PGL RT.

SITE PLAN - PROFILES
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER HAMILTON DITCH

FRA-70-00.00

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SFN	2503905
DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	2
TOTAL	17
SHEET	P.533
TOTAL	577

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15	REVISED	01-20-23
AS-2-15	REVISED	01-20-23
CPA-1-08	REVISED	01-19-24

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFIFCATIONS:

SS848	REVISED	01-15-21

DESIGN SPECIFICATIONS:

THE PROPOSED WORK CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

CONCRETE REINFORCEMENT:

EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60-KSI (ALL)

PROPOSED WORK:

- REMOVE AND REPLACE PORTIONS OF EXISTING CONCRETE PARAPETS AND SLAB
- NEW INTEGRAL ABUTMENTS ABOVE TOP OF EX. PILE CAP
- REMOVE AND REPLACE EXISTING OVERLAY WITH SDC OVERLAY
- NEW FULL WIDTH APPROACH SLABS
- SEAL CONCRETE SURFACES

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXSITING STRUCTURE PLANS:

CONSTRUCTION PLANS FOR THE EXISTING BRIDGE ARE ON FILE AT THE DEPARTMENT OF TRANSPORTATION, DISTRICT 6 OFFICE, 400 E. WILLIAM STREET, DELAWARE, OHIO AND ARE AVAILABLE FOR REFERENCE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN:

DESCRIPTION:
THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPOSIVES, HEADACHE BALLS AND/OR HOE RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISITING CONCRETE REINFORCEMENT TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

CUTLINE CONSTRUCTION JOINT PREPARATION:
SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING CONCRETE REINFORCMENT, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING STEEL REINFORCEMENT DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL:
REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. THE DEPARTMENT WILL NOT PERMIT HYDRAULIC HOE-RAM TYPE HAMMERS. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

MEASUREMENT AND PAYMENT:
THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT CONCRETE REINFORCEMENT BY THE NUMBER OF POUNDS ACCEPTED IN PLACE.

REPLACE ALL EXISTING STEEL REINFORCEMENT BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW CONCRETE REINFORCEMENT OF THE SAME SIZE, COATING, AND MATERIAL AT NO COST TO THE DEPARTMENT.

ITEM 510 - DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT:

PRIOR TO DRILLING HOLES, LOCATE ALL EXISTING REINFORCING STEEL BARS IN THE AREA OF THE HOLE WITH THE AID OF A REINFORCING STEEL BAR LOCATOR (PACHOMETER). IF AN EXISTING BAR IS ENCOUNTERED AT THE SAME LOCATION AS A PROPOSED DOWEL HOLE, MOVE THE DOWEL HOLE TO EITHER SIDE OF THE EXISITNG BAR. THE DEPARTMENT WILL PAY FOR DOWEL HOLES AND GROUTING WITH ITEM 510, DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT.

ITEM 512 - SEALING OF CONCRETE SURFACE (NON-EPOXY), AS PER PLAN:

EXISTING SEALER SHALL BE REMOVED PRIOR TO APPLICATION OF NEW EPOXY-URETHANE SEALER.

ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN:

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05. IF, DURING THE JACKING OPERATIONS, DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION:

THIS WORK CONSISTS OF REPLACING AREAS OF CRUSHED AGGREGATE SLOPE PROTECTION DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN PROVIDED IN THE ESTIMATED QUANTITIES FOR BIDDING PURPOSES.

601, CRUSHED AGGREGATE SLOPE PROTECTION	35 SY

ABBREVIATION LIST:

THE FOLLOWING STANDARD ABBREVIATIONS ARE USED THROUGHOUT THE BRIDGE PLANS.

ABUT.	= ABUTMENT
A.T.G.	= ADJUST TO GRADE
BRG.	= BEARING
CB	= CATCH BASIN
C/C	= CENTER -TO-CENTER
C.J.	= CONSTRUCTION JOINT
CLR.	= CLEARANCE
CONST.	= CONSTRUCTION
DIA.	= DIAMETER
DWG.	= DRAWING
EA.	= EACH
E.F.	= EACH FACE
EL.	= ELEVATION
EST.	= ESTIMATED
EX.	= EXISTING
F.A.	= FORWARD ABUTMENT
F.D.S.	= FINAL DECK SURFACE
F.F.	= FRONT FACE
F.S.	= FAR SIDE
INV.	= INVERT
LT.	= LEFT
MH	= MANHOLE
N.P.C.P.P.	= NON-PERFORATED CORRUGATED PLASTIC PIPE
N.S.	= NEAR SIDE
O/O	= OUT-TO-OUT
P.C.P.P.	= PERFORATED CORRUGATED PLASTIC PIPE
PEJF	= PREFORMED EXPANSION JOINT FILLER
PROP.	= PROPOSED
R.A.	= REAR ABUTMENT
REQD.	= REQUIRED
RT.	= RIGHT
SER.	= SERIES
SHLD.	= SHOULDER
SPA.	= SPACES
STA.	= STATION
STD.	= STANDARD
STM	= STORM SEWER LINE
T&B	= TOP AND BOTTOM
T/S	= TOP OF SLOPE
T/T	= TOE-TO-TOE
TYP.	= TYPICAL

GENERAL NOTES

BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN 2503905

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER	CHECKER
SJF	CLB

REVIEWER: JCS 03/15/24

PROJECT ID: 116949

SUBSET	TOTAL
3	17

SHEET	TOTAL
P.534	577

FRA-70-00.00

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ESTIMATED QUANTITIES FRA-70-04170 R

CALCULATED BY: SJF DATE: 03/07/2024
CHECKED BY: CLB DATE: 03/20/2024

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIERS	SUPER STR.	GENERAL	SEE SHT. NO.
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	3/17
202	22900	200	SY	APPROACH SLAB REMOVED				200	
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING				LS	
503	21300	LS		UNCLASSIFIED EXCAVATION				LS	
509	10000	11558	LB	EPOXY COATED STEEL REINFORCEMENT	10074	3853	1484		
509	20001	800	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			800		3/17
510	10000	146	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	146				
511	34410	49	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			49		
511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			9		
512	10050	50	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	50				
512	10051	216	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN			216		3/17
512	33000	5	SY	TYPE 2 WATERPROOFING	5				
516	10010	118	FT	ARMORLESS PREFORMED JOINT SEAL				118	
516	13200	122	SF	1/2" PREFORMED EXPANSION JOINT FILLER	122				
516	13600	120	SF	1" PREFORMED EXPANSION JOINT FILLER	120				
516	14014	136	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	136				
516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	3/17
518	21200	57	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	57				
518	40000	135	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	135				
518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100				
526	25000	297	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				297	
526	90030	118	FT	TYPE C INSTALLATION				118	
601	20000	35	SY	CRUSHED AGGREGATE SLOPE PROTECTION	35				
848	10200	496	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK			496		
848	20000	459	SY	SURFACE PREPARATION USING HYDRODEMOLITION			459		
848	30200	3	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			3		
848	50000	5	SY	HAND CHIPPING			5		
848	50320	696	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" THICK			696		
848	50340	5	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			5		

ESTIMATED QUANTITIES - RIGHT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN 2503905
DESIGN AGENCY STRUCTUREPOINT INC.
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 4 | TOTAL 17
SHEET P.535 | TOTAL 577

FRA-70-00.00

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ESTIMATED QUANTITIES FRA-70-04170 L

CALCULATED BY: SJF DATE: 03/07/2024
CHECKED BY: CLB DATE: 03/20/2024

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIERS	SUPER STR.	GENERAL	SEE SHT. NO.
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	3/17
202	22900	200	SY	APPROACH SLAB REMOVED				200	
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING				LS	
503	21300	LS		UNCLASSIFIED EXCAVATION				LS	
509	10000	11558	LB	EPOXY COATED STEEL REINFORCEMENT	10074	3853	1484		
509	20001	800	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			800		3/17
510	10000	146	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	146				
511	34410	49	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			49		
511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)			9		
512	10050	50	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	50				
512	10051	216	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN			216		3/17
512	33000	5	SY	TYPE 2 WATERPROOFING	5				
516	10010	118	FT	ARMORLESS PREFORMED JOINT SEAL				118	
516	13200	122	SF	1/2" PREFORMED EXPANSION JOINT FILLER	122				
516	13600	120	SF	1" PREFORMED EXPANSION JOINT FILLER	120				
516	14014	136	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	136				
516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	3/17
518	21200	57	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	57				
518	40000	135	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	135				
518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100				
526	25000	297	SY	REINFORCED CONCRETE APPROACH SLABS (T=15")				297	
526	90030	118	FT	TYPE C INSTALLATION				118	
601	20000	35	SY	CRUSHED AGGREGATE SLOPE PROTECTION	35				
848	10200	496	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, 2" THICK			496		
848	20000	459	SY	SURFACE PREPARATION USING HYDRODEMOLITION			459		
848	30200	3	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			3		
848	50000	5	SY	HAND CHIPPING			5		
848	50320	696	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" THICK			696		
848	50340	5	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY			5		

ESTIMATED QUANTITIES - LEFT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN 2503964

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER
JCS 03/15/24

PROJECT ID
116949

SUBSET	TOTAL
5	17

SHEET	TOTAL
P.536	577

FRA-70-00.00

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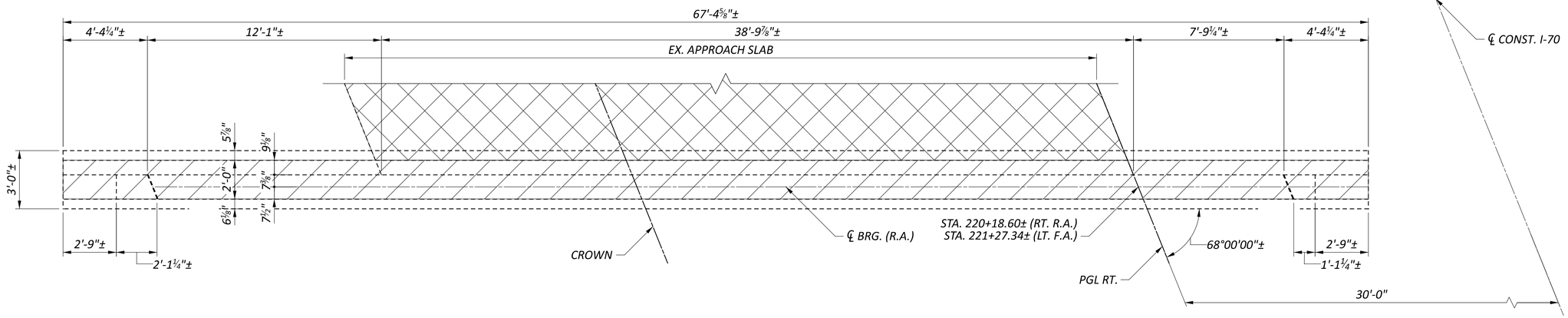
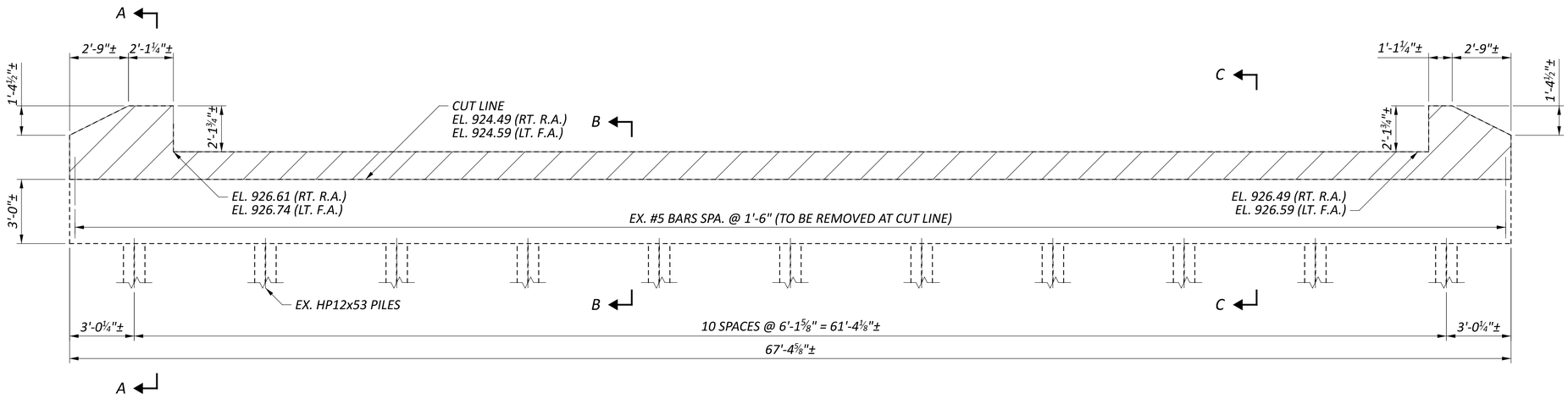


RIGHT REAR ABUTMENT PLAN

LEFT FORWARD ABUTMENT SIMILAR BY 180° ROTATION



RIGHT REAR ABUTMENT ELEVATION

LEFT FORWARD ABUTMENT SIMILAR BY 180° ROTATION

LEGEND

LIMITS OF REMOVAL PER ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN

LIMITS OF REMOVAL PER ITEM 202. APPROACH SLAB REMOVED

NOTES:

FOR SECTIONS A-A, B-B, AND C-C, SEE SHEET 7 / 17.

ABUTMENT REMOVAL DETAILS - RIGHT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN	2503905
DESIGN AGENCY	STRUCTUREPOINT
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	6
TOTAL	17
SHEET	P.537
TOTAL	577

FRA-70-00.00

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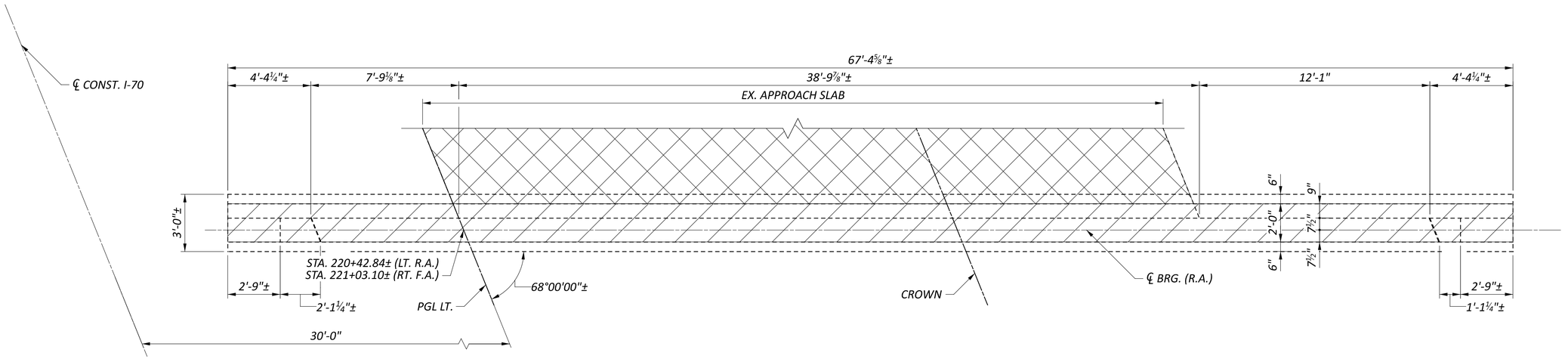
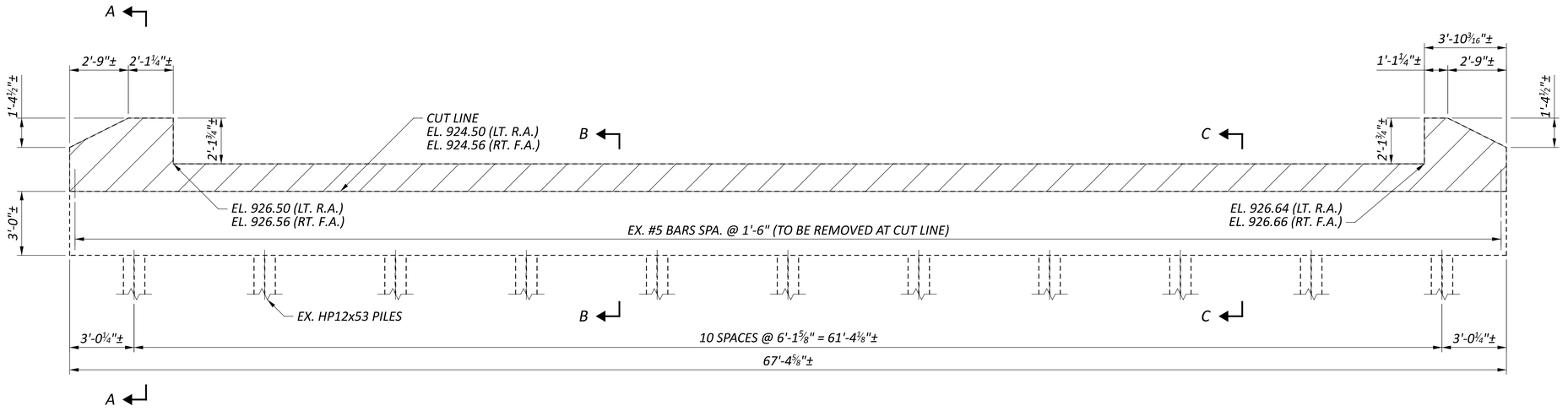


LEFT REAR ABUTMENT PLAN

RIGHT FORWARD ABUTMENT SIMILAR BY 180° ROTATION



LEFT REAR ABUTMENT ELEVATION

RIGHT FORWARD ABUTMENT SIMILAR BY 180° ROTATION

LEGEND

LIMITS OF REMOVAL PER ITEM 202. PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN

LIMITS OF REMOVAL PER ITEM 202. APPROACH SLAB REMOVED

NOTES:

FOR SECTIONS A-A, B-B, AND C-C, SEE SHEET 7 / 17.

ABUTMENT REMOVAL DETAILS - LEFT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN	2503905
DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	7
TOTAL	17
SHEET	P.538
TOTAL	577

FRA-70-00.00

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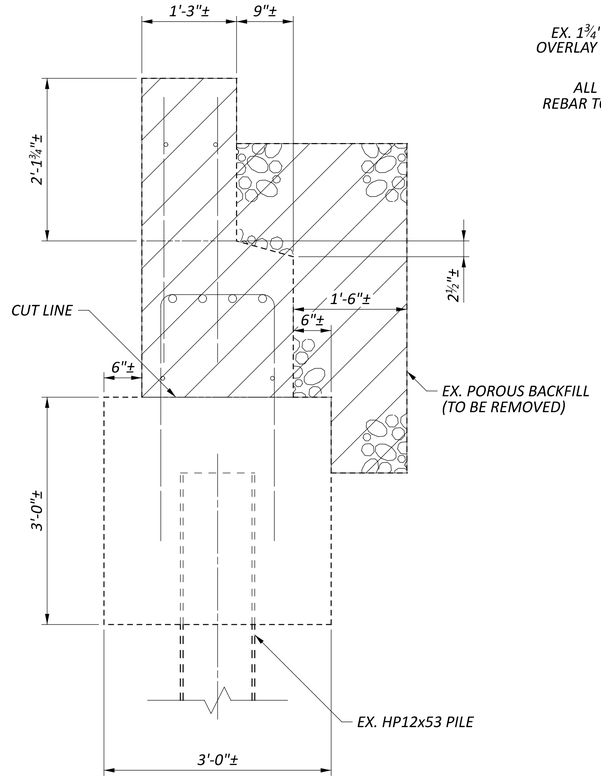
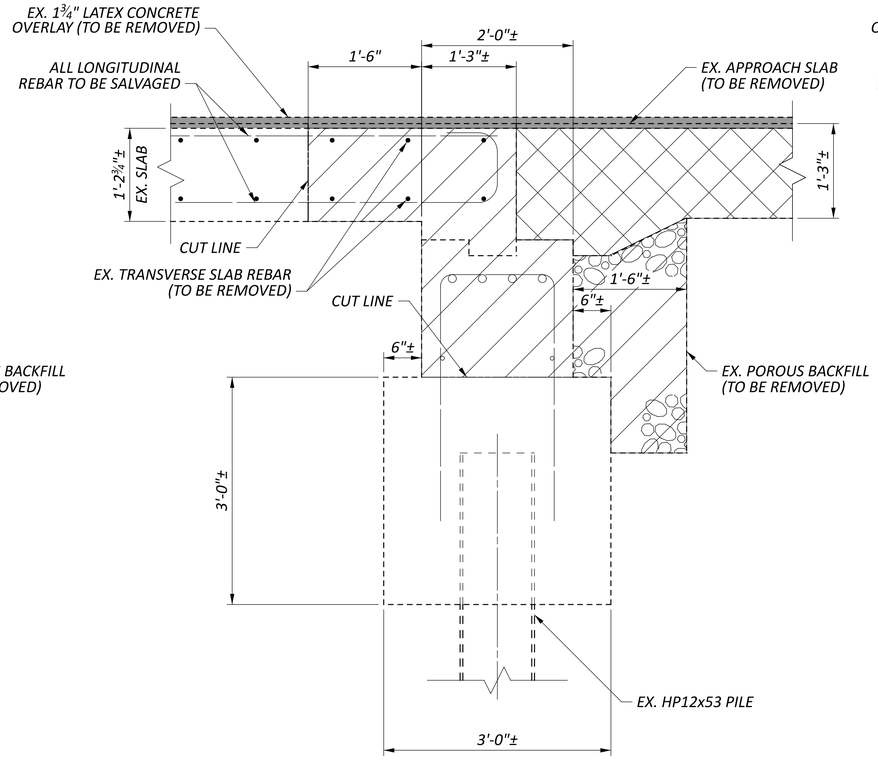
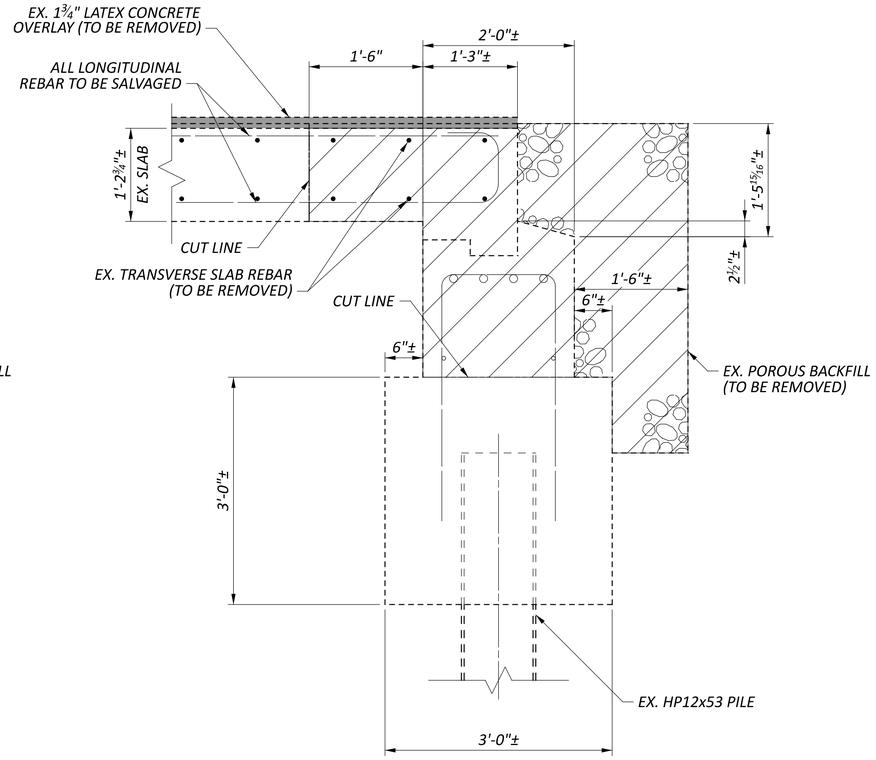


SECTION A-A



SECTION B-B



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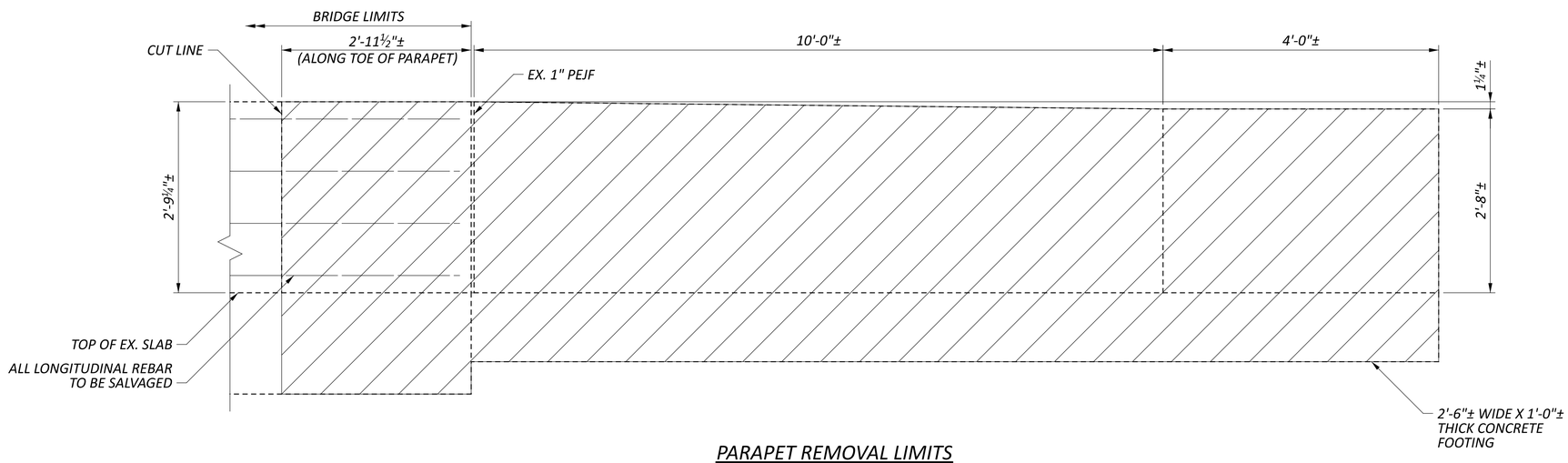

PARAPET REMOVAL LIMITS

TYPICAL ALL FOUR QUADRANTS, LEFT AND RIGHT BRIDGE

LEGEND

- LIMITS OF REMOVAL PER ITEM 202. PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN
- LIMITS OF REMOVAL PER ITEM 202. APPROACH SLAB REMOVED
- LIMITS OF REMOVAL PER ITEM 848. EXISTING CONCRETE OVERLAY REMOVED 1 3/4" NOMINAL THICKNESS

ABUTMENT REMOVAL DETAILS

BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R

I-70 OVER CLOVER GROFF DITCH

SFN	2503905
DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	8
TOTAL	17
SHEET	P.539
TOTAL	577

FRA-70-00.00

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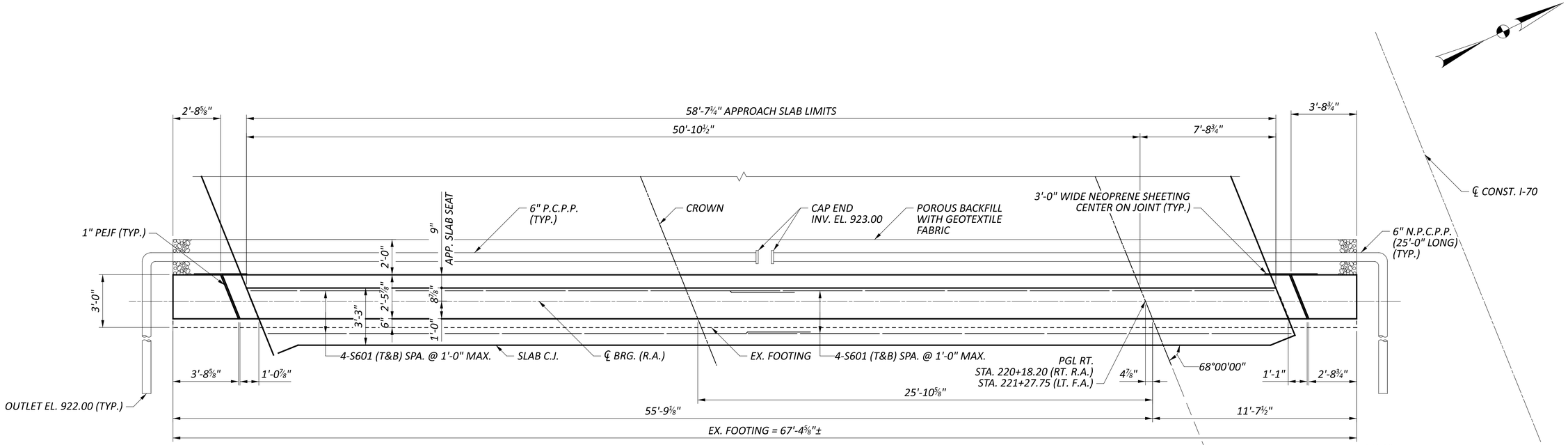
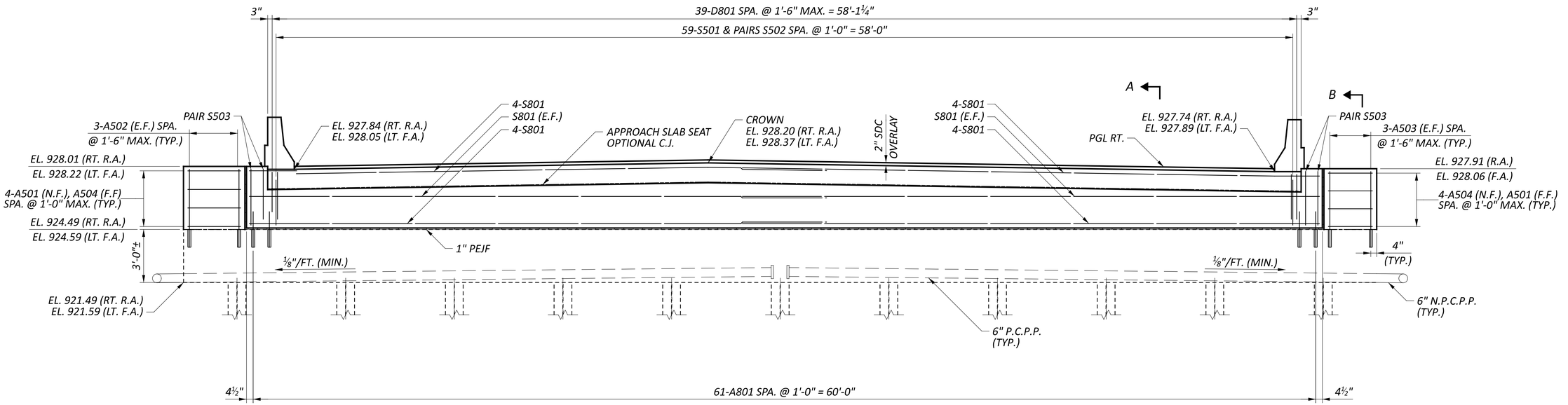


RIGHT REAR ABUTMENT PLAN

LEFT FORWARD ABUTMENT SIMILAR BY 180° ROTATION



RIGHT REAR ABUTMENT ELEVATION

LEFT FORWARD ABUTMENT SIMILAR BY 180° ROTATION

MIN. BAR LAP	
#6	3'-7"
#8	4'-9"

NOTES:

FOR SECTIONS A-A AND B-B, SEE SHEET 10 / 17.

ABUTMENT DETAILS - RIGHT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN 2503905

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER: JCS 03/15/24

PROJECT ID: 116949

SUBSET	TOTAL
9	17

SHEET	TOTAL
P.540	577

FRA-70-00.00

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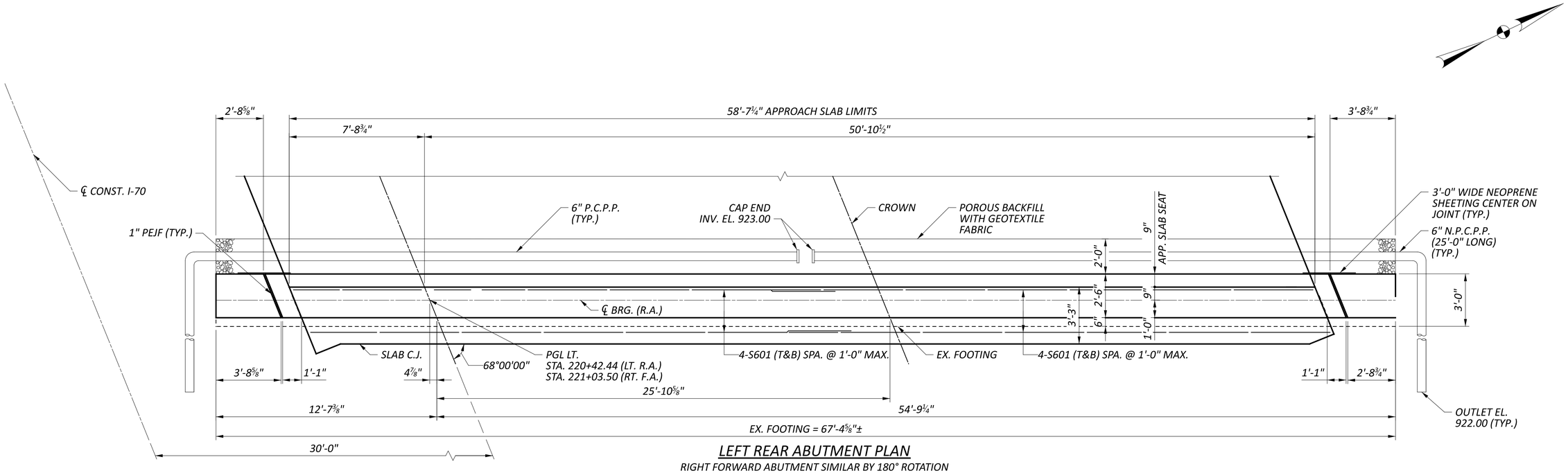
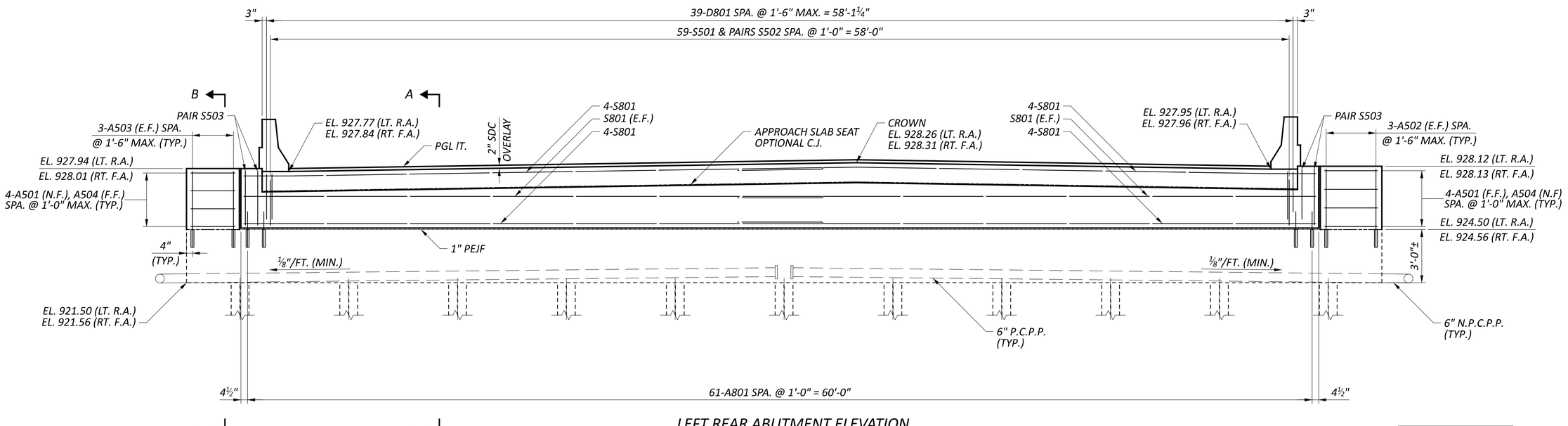


LEFT REAR ABUTMENT PLAN

RIGHT FORWARD ABUTMENT SIMILAR BY 180° ROTATION



LEFT REAR ABUTMENT ELEVATION

RIGHT FORWARD ABUTMENT SIMILAR BY 180° ROTATION

MIN. BAR LAP	
#6	3'-7"
#8	4'-9"

NOTES:

FOR SECTIONS A-A AND B-B, SEE SHEET 10 / 17.

ABUTMENT DETAILS - LEFT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN 2503905

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER: JCS 03/15/24

PROJECT ID: 116949

SUBSET	TOTAL
10	17

SHEET	TOTAL
P.541	577

FRA-70-00.00

MODEL: Sheet_SurvFt PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:51:13 PM USER: AMerrill
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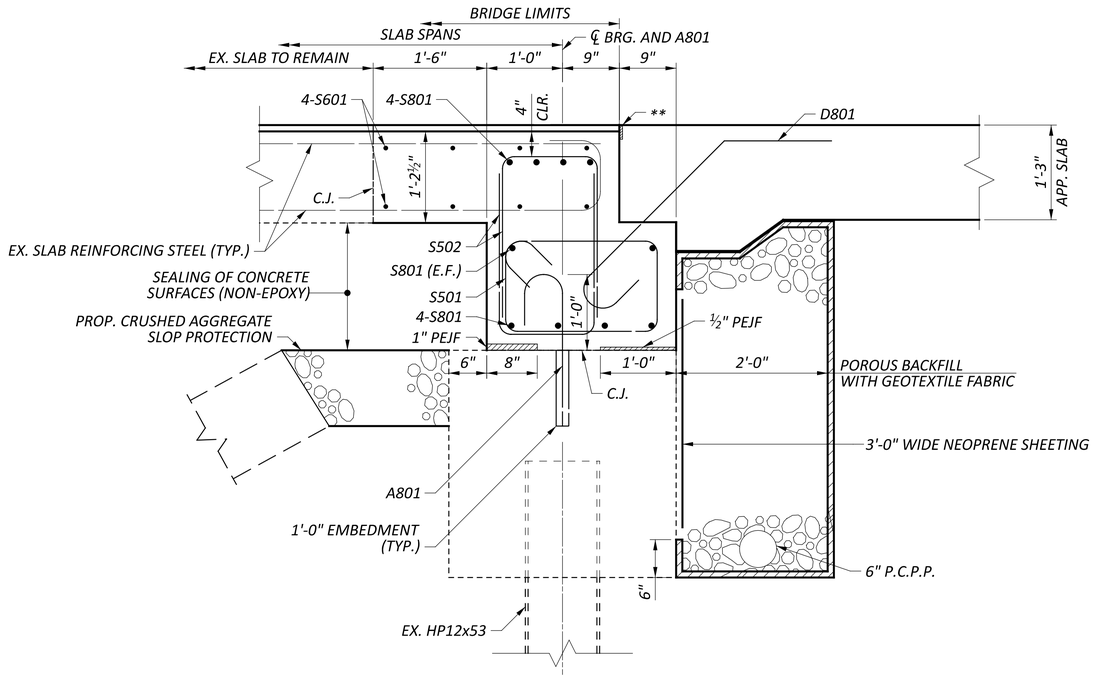
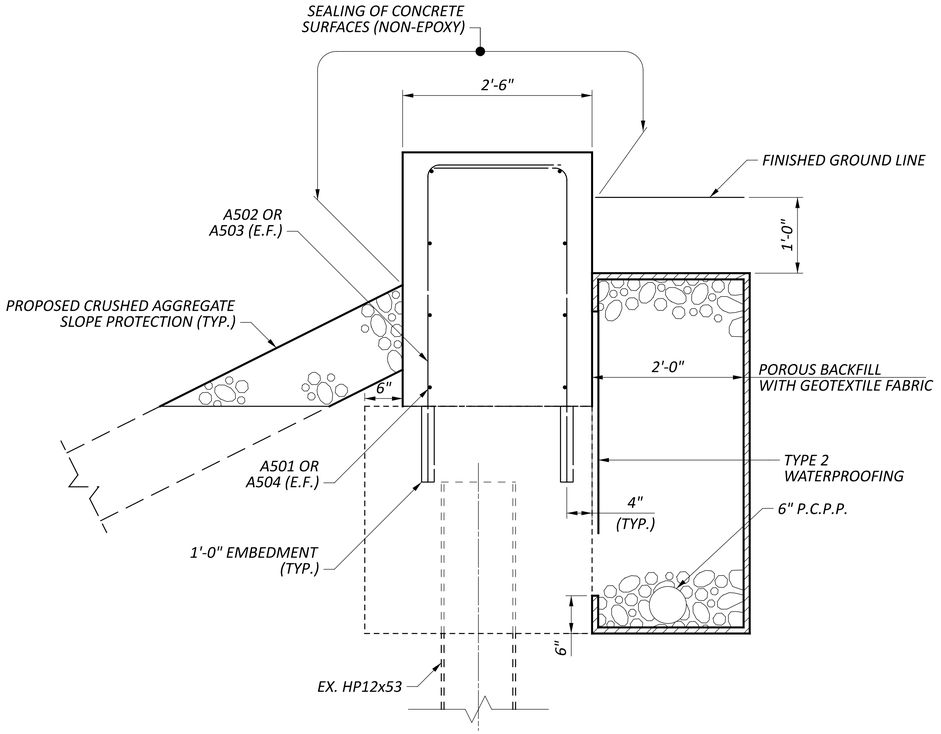


SECTION A-A

** SEE DEATIL "C" ON STANDARD DRAWING AS-1-81



SECTION B-B

ABUTMENT DETAILS

BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

FRA-70-00.00

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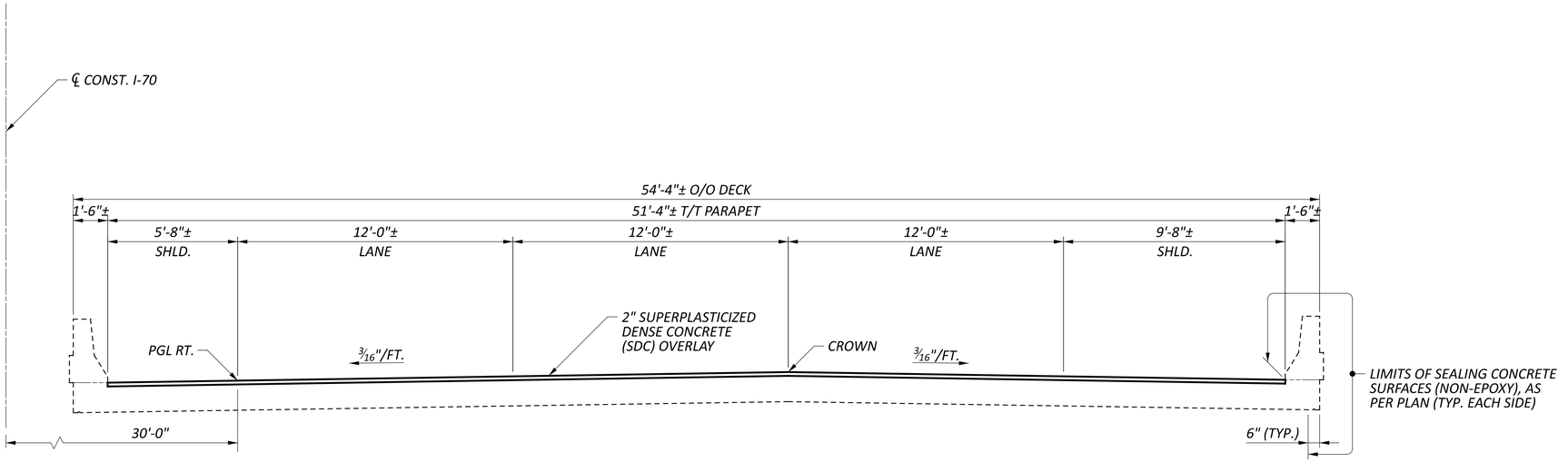
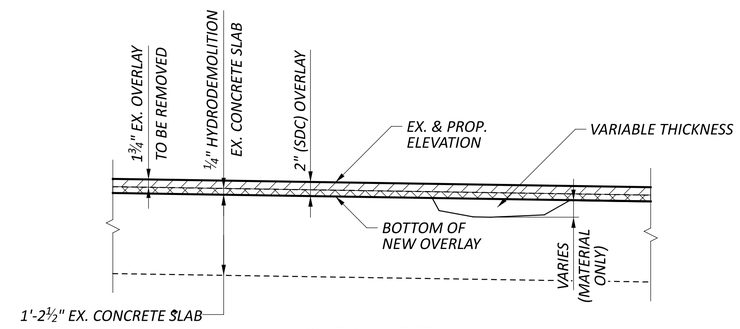
SFN	2503964
DESIGN AGENCY	STRUCTUREPOINT LLC
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	11
TOTAL	17
SHEET	P.542
TOTAL	577



TRANSVERSE SECTION FRA-70-04170 R

RIGHT BRIDGE SHOWN, LEFT BRIDGE SYMMETRIC ABOUT ℄ CONST. I-70



OVERLAY DETAIL

LEGEND

REMOVAL OF EX. OVERLAY

REMOVAL USING HYDRODEMOLITION

TRANSVERSE SECTION

BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R

I-70 OVER CLOVER GROFF DITCH

SFN	2503905
DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	12
TOTAL	17
SHEET	P.543
TOTAL	577

FRA-70-00.00

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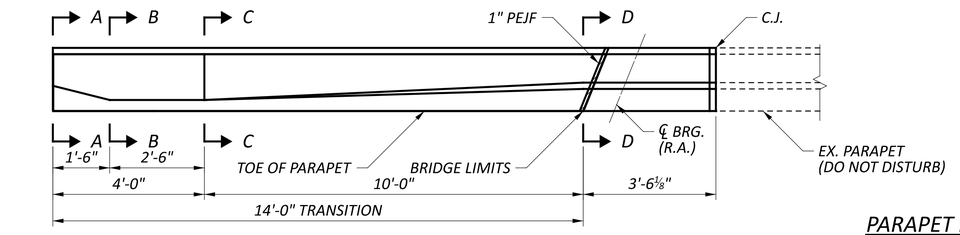
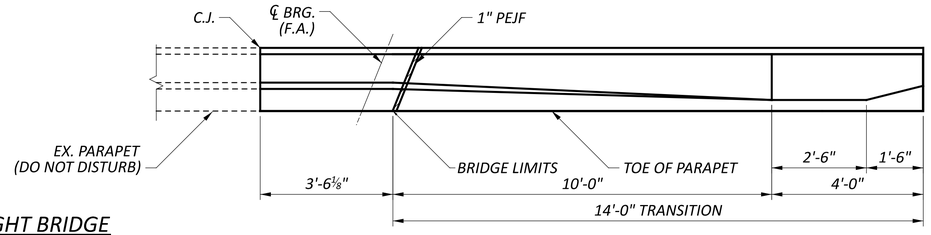
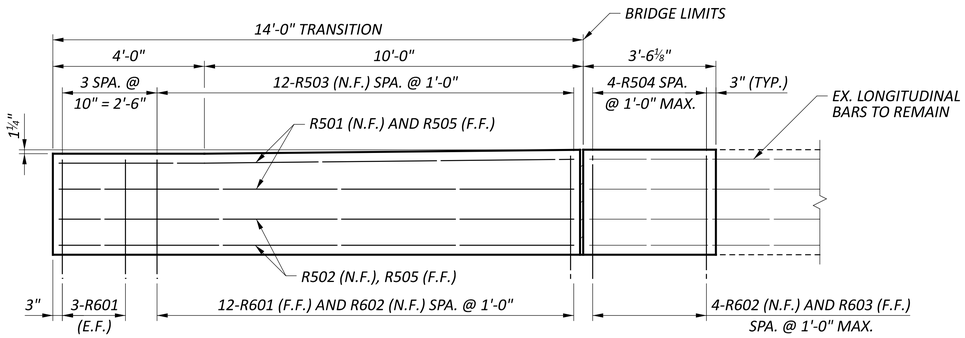
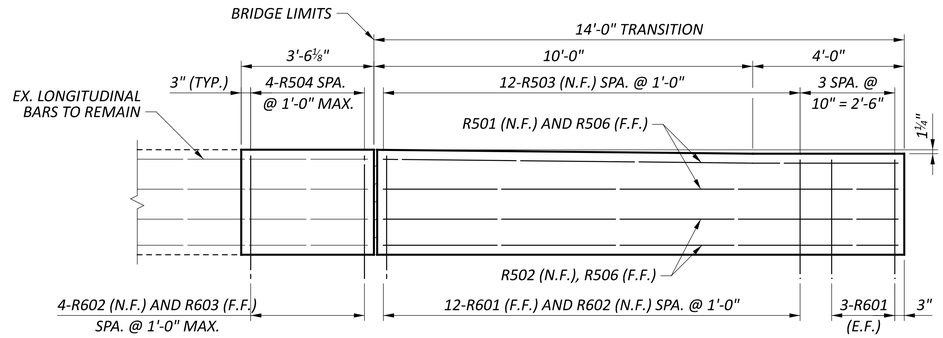




PARAPET PLAN - RIGHT BRIDGE

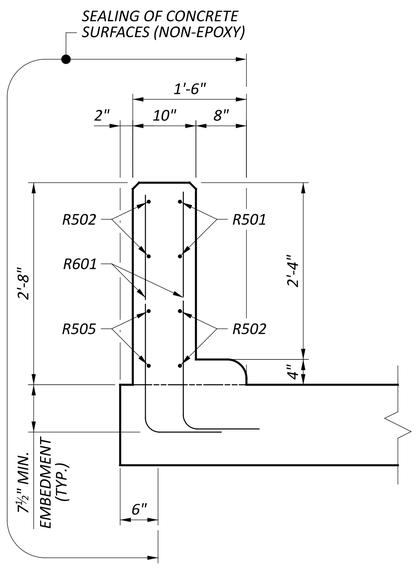
LEFT PARAPET SHOWN, RIGHT PARAPET SIMILAR
(LEFT BRIDGE PARAPET SIMILAR)



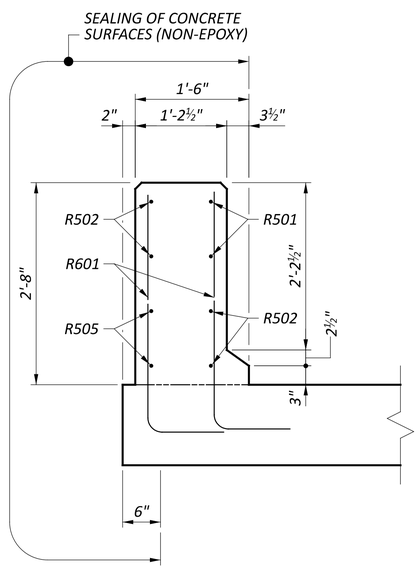


PARAPET ELEVATION - RIGHT BRIDGE

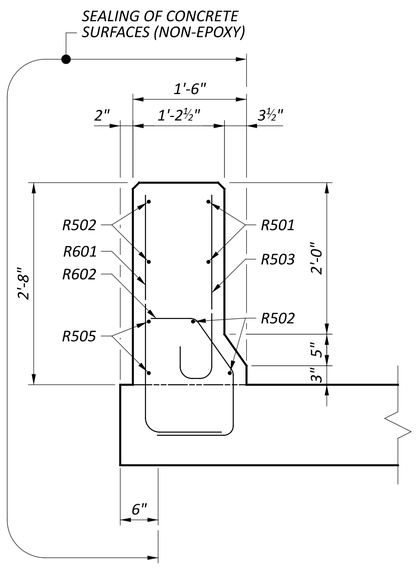
LEFT PARAPET SHOWN, RIGHT PARAPET SIMILAR
(LEFT BRIDGE PARAPET SIMILAR)



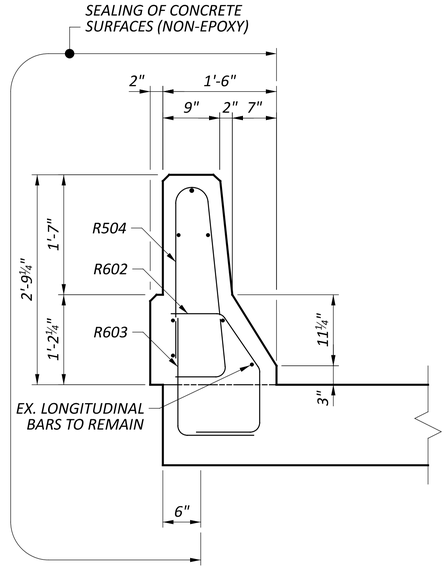
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

NOTES:

SEE STANDARD BRIDGE DRAWING BR-1-13 FOR ADDITIONAL DETAILS.

FOR BRIDGE TERMINAL ASSEMBLY, SEE STANDARD CONSTRUCTION DRAWING MSG 3.1 AND 3.2.

PARAPET DETAILS
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN	2503905
DESIGN AGENCY	WILLIAMSON STRUCTUREPOINT INC.
DESIGNER	SJF
CHECKER	CLB
REVIEWER	JCS 03/15/24
PROJECT ID	116949
SUBSET	13
TOTAL	17
SHEET	P.544
TOTAL	577

FRA-70-00.00

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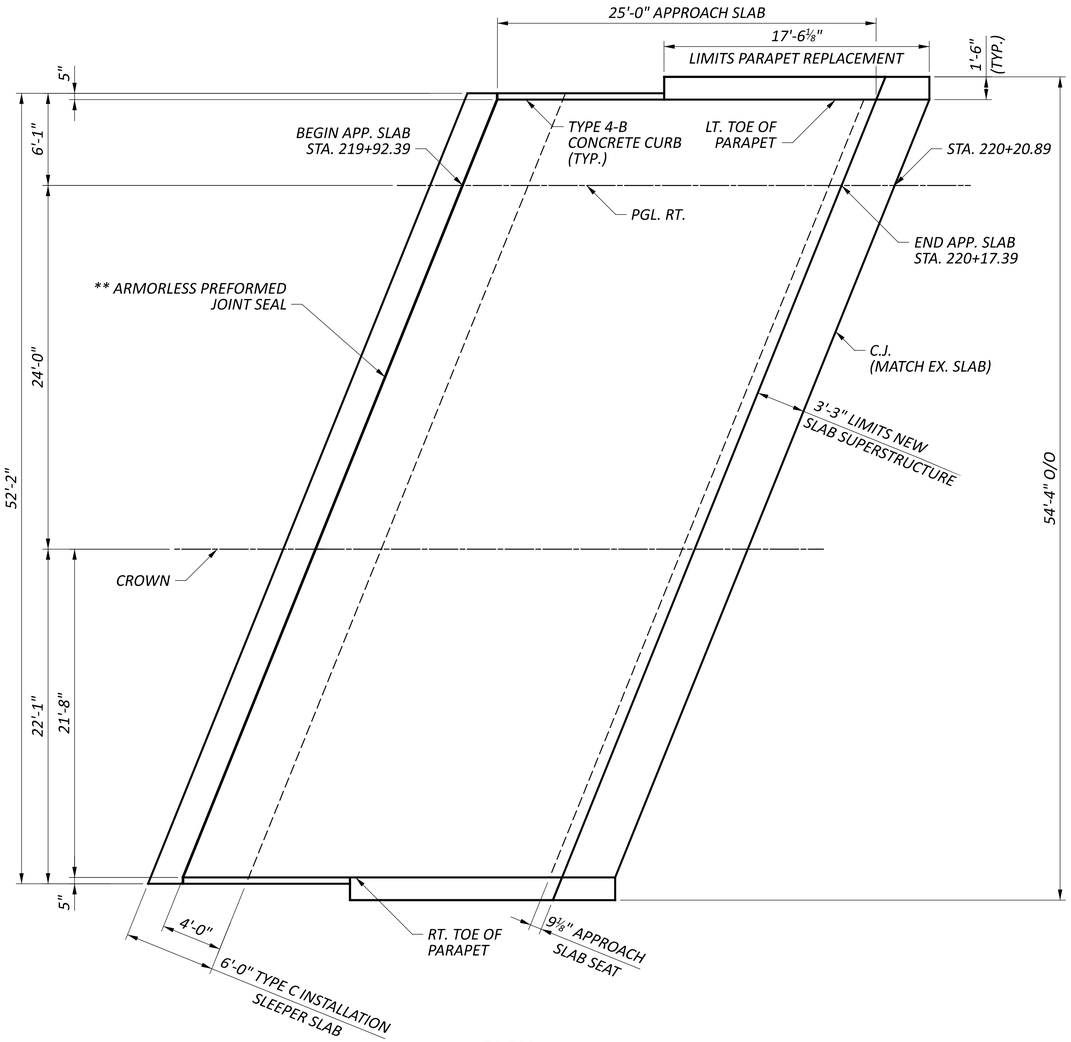
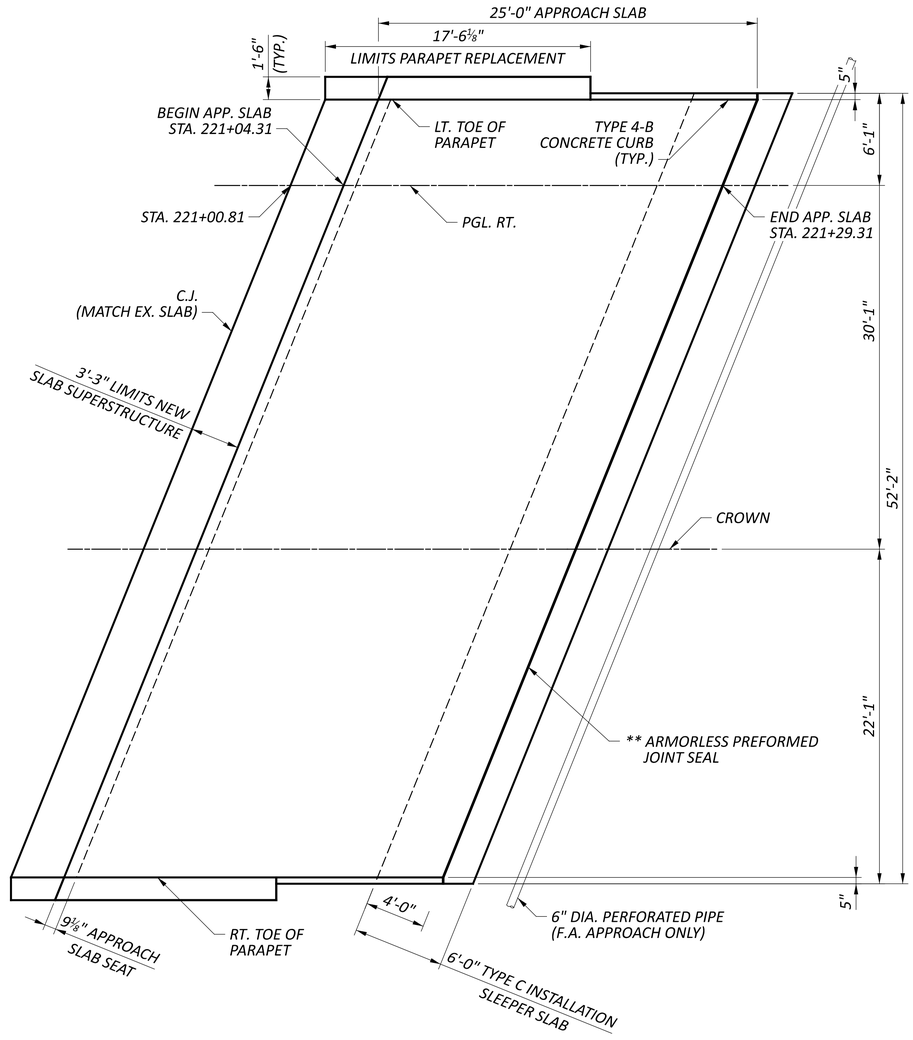


PLAN

REAR APPROACH - RIGHT BRIDGE



PLAN

FORWARD APPROACH - RIGHT BRIDGE

APPROACH SLAB ELEVATIONS (RIGHT BRIDGE)

APPROACH LINE	DESCRIPTION	BEGIN REAR SLEEPER SLAB	BEGIN REAR APPROACH SLAB	END REAR SLEEPER SLAB	END REAR APPROACH SLAB	STRUCTURE LIMITS	BEGIN FWD. APPROACH SLAB	BEGIN FWD. SLEEPER SLAB	END FWD. APPROACH SLAB	END FWD. SLEEPER SLAB
LT. TOE PARAPET	STATION	219+92.53	219+94.68	219+99.00	220+19.68		221+06.60	221+27.28	221+31.60	221+33.75
	OFFSET	29.67	29.67	29.67	29.67		29.67	29.67	29.67	29.67
	ELEVATION	927.86	927.87	926.62	927.91		928.01	926.77	928.02	928.02
PGL RT.	STATION	219+90.24	219+92.39	219+96.71	220+17.39		221+04.31	221+24.99	221+29.31	221+31.46
	OFFSET	24.00	24.00	24.00	24.00		24.00	24.00	24.00	24.00
	ELEVATION	927.96	927.96	926.72	928.00		928.10	926.86	928.11	928.11
CROWN	STATION	219+80.54	219+82.69	219+87.01	220+07.69		220+94.61	221+15.29	221+19.61	221+21.76
	OFFSET	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	ELEVATION	928.33	928.33	927.09	928.37		928.48	927.24	928.49	928.49
RT. TOE PARAPET	STATION	219+71.79	219+73.94	219+78.26	219+98.94		220+85.86	221+06.54	221+10.86	221+13.01
	OFFSET	21.67	21.67	21.67	21.67		21.67	21.67	21.67	21.67
	ELEVATION	927.96	927.97	926.72	928.01		928.13	926.89	928.14	928.14

**SEE STANDARD DRAWINGS AS-2-15 SHEET 7/14
FOR EXPANSION JOINT OPENING TABLE

NOTES:

FOR STANDARD APPROACH SLAB DETIALS, SEE STANDARDS DRAWING AS-1-15.

FOR STANDARD APPROACH SLAB TYPE C INSTALLATION DETAILS, SEE STANDARD DRAWING AS-2-15.

APPROACH SLABS SHALL NOT BE POURED WITH SLAB AND DIAPHRAGM.

ELEVATIONS GIVEN AT TOP OF APPROACH SLAB AND SLEEPER SLAB.

APPROACH SLAB DETAILS - RIGHT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN 2503905
DESIGN AGENCY STRUCTUREPOINT
DESIGNER SJF | CHECKER CLB
REVIEWER JCS 03/15/24
PROJECT ID 116949
SUBSET 14 | TOTAL 17
SHEET P.545 | TOTAL 577

FRA-70-00.00

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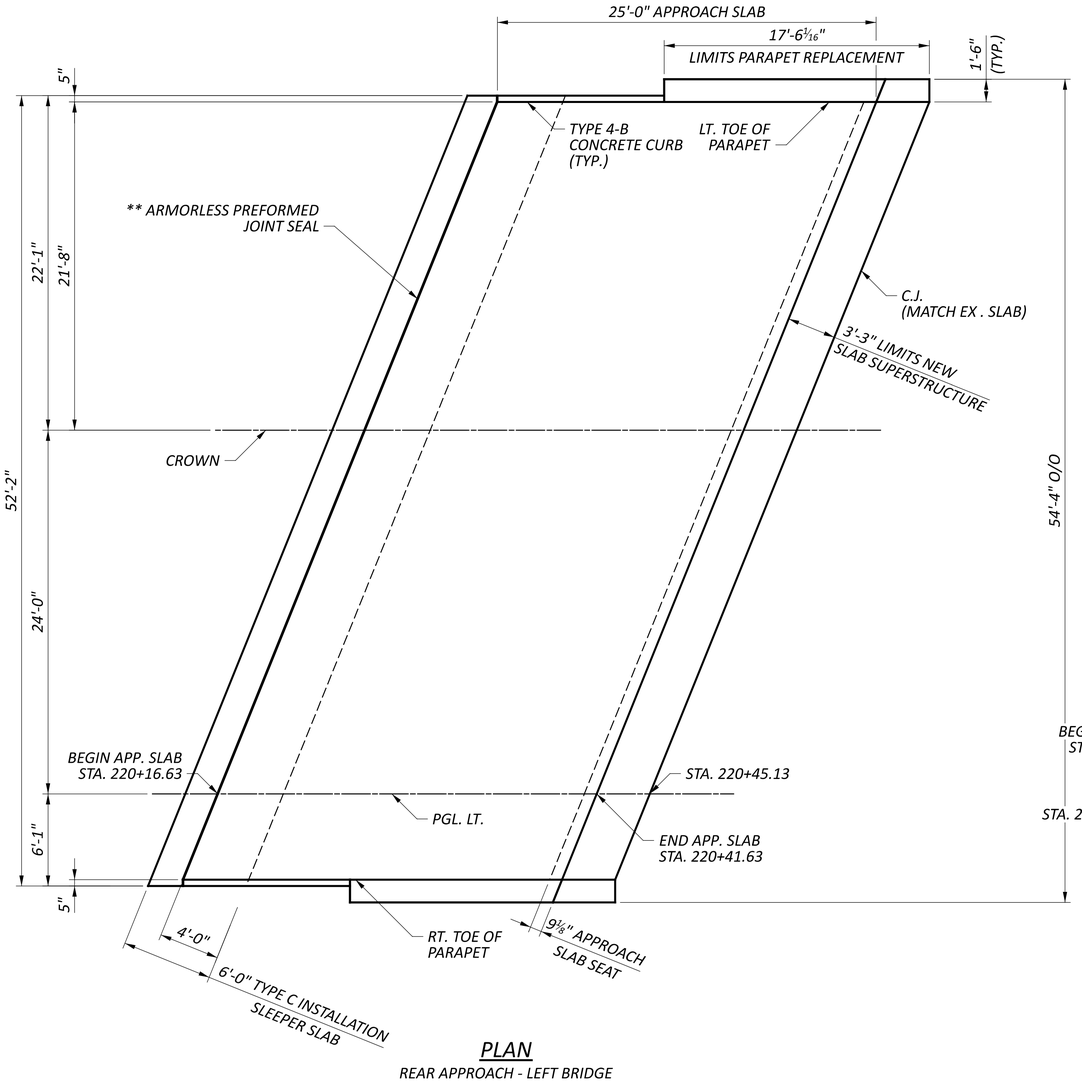
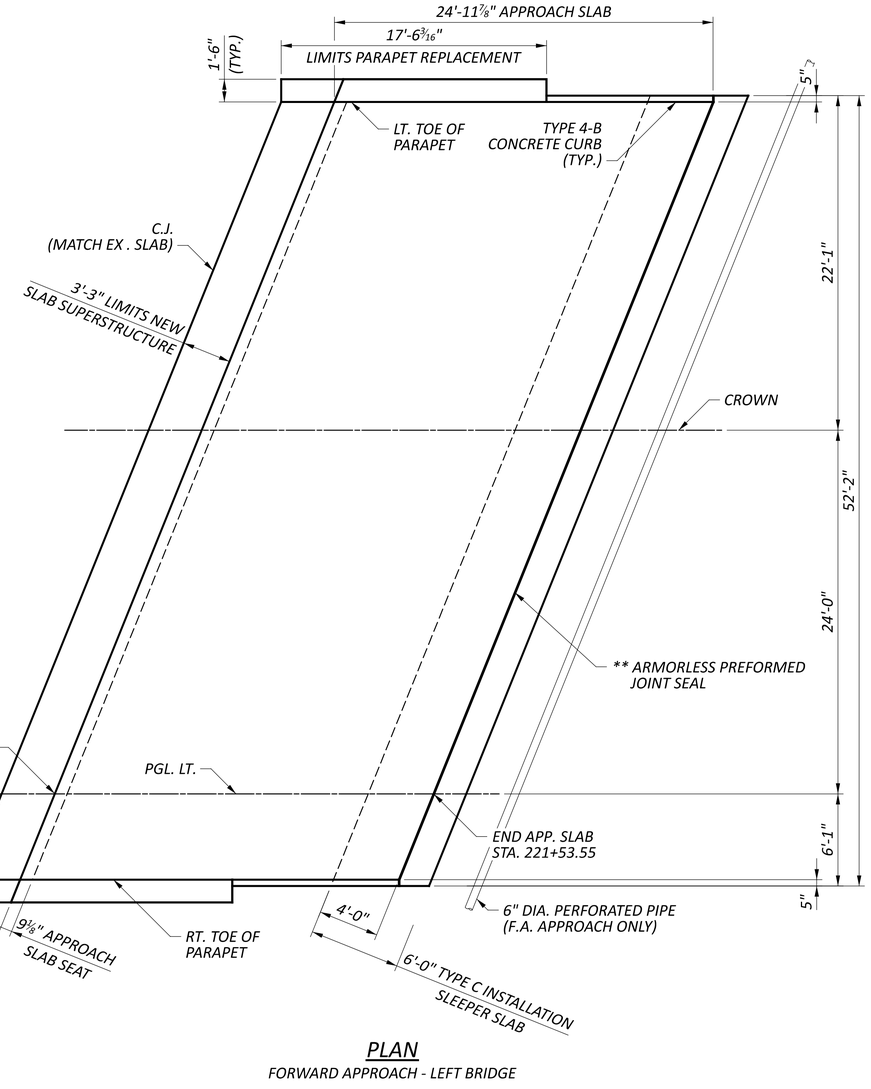


PLAN

REAR APPROACH - LEFT BRIDGE



PLAN

FORWARD APPROACH - LEFT BRIDGE

APPROACH SLAB ELEVATIONS (LEFT BRIDGE)

APPROACH LINE / DESCRIPTION		BEGIN REAR SLEEPER SLAB	BEGIN REAR APPROACH SLAB	END REAR SLEEPER SLAB	END REAR APPROACH SLAB	STRUCTURE LIMITS	BEGIN FWD. APPROACH SLAB	BEGIN FWD. SLEEPER SLAB	END FWD. APPROACH SLAB	END FWD. SLEEPER SLAB
LT. TOE PARAPET	STATION	220+32.93	220+35.08	220+39.40	220+60.08		221+46.99	221+67.68	221+71.99	221+74.15
	OFFSET	21.67	21.67	21.67	21.67		21.67	21.67	21.67	21.67
	ELEVATION	928.07	928.07	926.83	928.12		928.22	926.99	928.25	928.25
CROWN	STATION	220+24.18	220+26.33	220+30.65	220+51.33		221+38.24	221+58.93	221+63.24	221+65.40
	OFFSET	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	ELEVATION	928.38	928.38	927.14	928.43		928.54	927.32	928.57	928.58
PGL LT.	STATION	220+14.48	220+16.63	220+20.95	220+41.63		221+28.54	221+49.23	221+53.54	221+55.70
	OFFSET	24.00	24.00	24.00	24.00		24.00	24.00	24.00	24.00
	ELEVATION	928.00	928.00	926.76	928.05		928.16	926.93	928.19	928.19
RT. TOE PARAPET	STATION	220+12.19	220+14.34	220+18.66	220+39.34		221+26.25	221+46.94	221+51.25	221+53.41
	OFFSET	29.67	29.67	29.67	29.67		29.67	29.67	29.67	29.67
	ELEVATION	927.89	927.89	926.65	927.94		928.06	926.83	928.09	928.09

**SEE STANDARD DRAWINGS AS-2-15 SHEET 7/14
FOR EXPANSION JOINT OPENING TABLE

NOTES:

FOR STANDARD APPROACH SLAB DETIALS, SEE STANDARDS DRAWING AS-1-15.

FOR STANDARD APPROACH SLAB TYPE C INSTALLATION DETAILS, SEE STANDARD DRAWING AS-2-15.

APPROACH SLABS SHALL NOT BE POURED WITH SLAB AND DIAPHRAGM.

ELEVATIONS GIVEN AT TOP OF APPROACH SLAB AND SLEEPER SLAB.

APPROACH SLAB DETAILS - LEFT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER CLOVER GROFF DITCH

SFN 2503964

DESIGN AGENCY: WESTON STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER: JCS 03/15/24

PROJECT ID: 116949

SUBSET	TOTAL
15	17

SHEET	TOTAL
P.546	577

FRA-70-00.00

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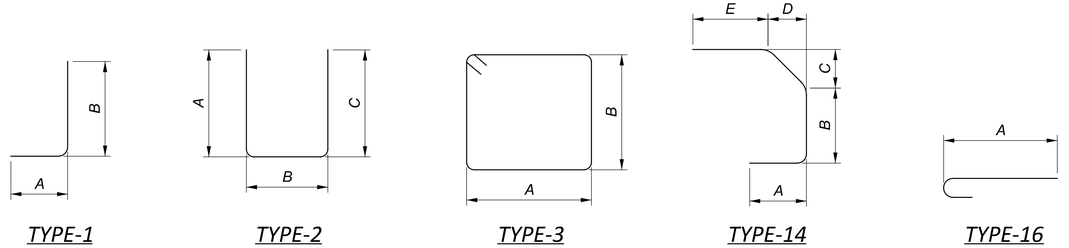
MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	R.A.	F.A.	TOTAL				A	B	C	D	E	R	INC
ABUTMENT													
A501	8	8	16	3'-1"	51	STR							
A502	6	6	12	6'-1"	76	1	1'-10"	4'-4 ½"					
A503	6	6	12	5'-11"	74	1	1'-10"	4'-3"					
A504	8	8	16	2'-7"	43	STR							
A801	61	61	122	2'-10"	923	16	2'-0"						
S501	59	59	118	8'-6"	1046	3	2'-2"	1'-9"					
S502	118	118	236	7'-0"	1723	2	2'-11"	1'-5"	2'-11"				
S503	8	8	16	7'-7"	127	2	2'-10"	2'-2"	2'-10"				
S601	16	16	32	31'-0"	1490	STR							
S801	20	20	40	32'-7"	3480	STR							
D801	39	39	78	5'-0"	1041	18	2'-9 ½"	1'-0"	1'-0"				
				SUB-TOTAL	10,074								

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
PARAPET											
R501	8	13'-10"	115	25	10'-0"	2'-5"	1'-4 ½"	0'-1 ½"	0'-5"		
R502	8	13'-10"	115	STR							
R503	48	3'-0"	150	16	2'-5"						
R504	16	5'-6"	92	23	0'-8"	2'-6"	2'-3"			0'-1½"	
R505	8	14'-1"	117	STR							
R506	8	12'-11"	108	STR							
R601	72	4'-0"	433	1	1'-0"	3'-1 ½"					
R602	64	3'-1"	296	14	1'-0"	0'-10"	0'-8 ½"	0'-6"	0'-7"		
R603	16	2'-5"	58	1	1'-0"	1'-6 ½"					
		SUB-TOTAL	1,484								



NOTES:

ALL CONCRETE REINFORCING SHALL BE EPOXY COATED STEEL REINFORCEMENT, GRADE 60

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR.
"R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
"STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

REINFORCING LIST - RIGHT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER HAMILTON DITCH

SFN 2503905

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER
JCS 03/15/24

PROJECT ID
116949

SUBSET	TOTAL
16	17

SHEET	TOTAL
P.547	577

FRA-70-00.00

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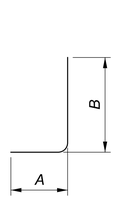
MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
	R.A.	F.A.	TOTAL				A	B	C	D	E	R	INC
ABUTMENT													
A501	8	8	16	3'-1"	51	STR							
A502	6	6	12	6'-1"	76	1	1'-10"	4'-4 ½"					
A503	6	6	12	5'-11"	74	1	1'-10"	4'-3"					
A504	8	8	16	2'-7"	43	STR							
A801	61	61	122	2'-10"	923	16	2'-0"						
S501	59	59	118	8'-6"	1046	3	2'-2"	1'-9"					
S502	118	118	236	7'-0"	1723	2	2'-11"	1'-5"	2'-11"				
S503	8	8	16	7'-7"	127	2	2'-10"	2'-2"	2'-10"				
S601	16	16	32	31'-0"	1490	STR							
S801	20	20	40	32'-7"	3480	STR							
D801	39	39	78	5'-0"	1041	18	2'-9 ½"	1'-0"	1'-0"				
				SUB-TOTAL	10,074								

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
PARAPET											
R501	8	13'-10"	115	25	10'-0"	2'-5"	1'-4 ½"	0'-1 ½"	0'-5"		
R502	8	13'-10"	115	STR							
R503	48	3'-0"	150	16	2'-5"						
R504	16	5'-6"	92	23	0'-8"	2'-6"	2'-3"			0'-1½"	
R505	8	14'-1"	117	STR							
R506	8	12'-11"	108	STR							
R601	72	4'-0"	433	1	1'-0"	3'-1 ½"					
R602	64	3'-1"	296	14	1'-0"	0'-10"	0'-8 ½"	0'-6"	0'-7"		
R603	16	2'-5"	58	1	1'-0"	1'-6 ½"					
		SUB-TOTAL	1,484								



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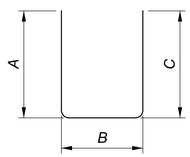

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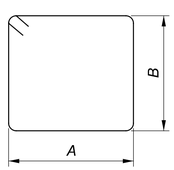

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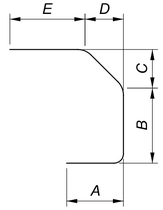
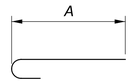


TYPE-14



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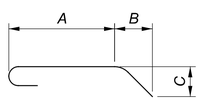

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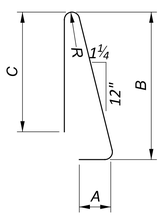
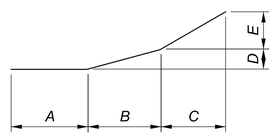


TYPE-23



TYPE-25

NOTES:

ALL CONCRETE REINFORCING SHALL BE EPOXY COATED STEEL REINFORCEMENT, GRADE 60

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR.
"R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
"STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

REINFORCING LIST - LEFT BRIDGE
BRIDGE NO. FRA-70-04170 L/ FRA-70-04170 R
I-70 OVER HAMILTON DITCH

SFN 2503905

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	CHECKER
SJF	CLB

REVIEWER
JCS 03/15/24

PROJECT ID
116949

SUBSET	TOTAL
17	17

SHEET	TOTAL
P.548	577

FRA-70-00.00

MODEL: Sheet_SurvFt PAPERSIZE: 34x22 (in.) DATE: 12/13/2024 TIME: 3:51:24 PM USER: AMerrill
O:\2023\00711\C. Design\116949_FRA-70-0.00\400-Engineering\Structures\SFN_2503964\Sheets\116949_SFN_2503964_SL002.dgn

PROJECT DESCRIPTION

IR-70 INTERSTATE IMPROVEMENT PROJECT FRA-70-00.00 (PID 116949) BETWEEN THE MADISON COUNTY LINE AND HILLIARD ROME ROAD INTERCHANGE IN FRANKLIN COUNTY, OHIO. THE OVERALL PROJECT OBJECTIVE IS THE FULL-DEPTH REPLACEMENT AND WIDENING OF INTERSTATE ROUTE (IR) 70 AND THE ENTRANCE RAMP FROM HILLIARD ROME ROAD SB TO IR-70 WB.

HISTORIC RECORDS

A HISTORIC RECORD SEARCH WAS PERFORMED THROUGH ODOT TIMS. ELEVEN PROJECTS BORING LOGS, SOIL PROFILE AND STRUCTURAL FOUNDATION SHEETS WERE FOUND. HISTORICAL INFORMATION ALONG WITH THE ASSOCIATED ELEVEN PROJECT'S PLANS, PROFILE AND STRUCTURAL FOUNDATION SHEETS WERE REVIEWD. HOWEVER, THEY WERE NOT UTILIZED FOR THE ANALYSIS.

GEOLOGY

THE PROJECT SITE IS LOCATED WITHIN BOTH THE DARBY PLAIN AND THE COLUMBUS LOWLAND PHYSIOGRAPHIC REGIONS. THE DARBY PLAIN IS A MODERATELY LOW RELIEF, BROADLY HUMMOCKY GROUND MORAINE WITH SEVERAL BROAD, INDISTINCT RECESSIONAL MORAINES; BETWEEN HUMMOCKS ARE BROAD, POORLY DRAINED SWALES WHICH HELD WET PRAIRIES/MEADOWS IN PIONEER DAYS; FEW LARGE STREAMS. SOILS IN THIS REGION ARE CHARACTERISTICALLY LOAMY, HIGH-LIME WISCONSINAN-AGE TILL AND SPARSE OUTWASH OVER SILURIAN- AND DEVONIAN-AGE CARBONATE ROCKS AND OHIO SHALE IN THE SOUTHEAST. THE COLUMBUS LOWLAND IS A LOWLAND SURROUNDED IN ALL DIRECTIONS BY RELATIVE UPLANDS, HAVING A BROAD REGIONAL SLOPE TOWARD THE SCIOTO VALLEY; MANY LARGER STREAMS; MODERATELY LOW RELIEF. SOILS IN THIS REGION ARE CHARACTERISTICALLY LOAMY, HIGH-LIME (WEST) TO MEDIUM-LIME (EAST) WISCONSINAN-AGE TILL AND EXTENSIVE OUTWASH IN SCIOTO VALLEY OVER DEEP DEVONIAN- TO MISSISSIPPIAN-AGE CARBONATE ROCKS, SHALES, AND SILTSTONES.

RECONNAISSANCE

A FIELD RECONNAISSANCE VISIT FOR THE OVERALL PROJECT AREA WAS CONDUCTED ON MAY 23, 2023 AND MAY 24, 2023. LAND USE OF THE AREA SURROUNDING THE PROPOSED PROJECT SITE CAN BE DESCRIBED AS A MIX OF AGRICULTURAL PROPERTIES, WOODLAND, RESIDENTIAL PROPERTIES AND COMMERCIAL PROPERTIES.

IR-70 BETWEEN BIG DARBY CREEK AND ALTON DARBY CREEK ROAD

IN GENERAL, THE PAVEMENT CONDITION OF IR-70 IN THIS SECTION WAS OBSERVED TO BE FAIR TO POOR WITH SIGNS OF WEATHERING AND SURFACE WEAR. MODERATE SEVERITY LONGITUDINAL AND TRANSVERSE CRACKING WAS COMMON ALONG THIS SECTION, AS WELL AS MODERATE SEVERITY EDGE CRACKING, POTHOLING, EXTENSIVE PATCHING WITH BOTH ASPHALT AND CONCRETE AS WELL AS CRACK SEALING DEFICIENCIES. THE PROJECT AREA IN THIS SECTION IS ROUGHLY LEVEL WITH THE SURROUNDING LAND TO THE EAST, TRANSITIONING TO A CUT VERY SLIGHTLY BELOW THE SURROUNDING LAND TO THE WEST WITH SLOPES OF 3H:1V (3 FT HORIZONTAL TO 1 FT VERTICAL) AND THEN TRANSITIONING TO AN EMBANKMENT ABOVE THE SURROUNDING LAND NEAR WHERE THE BIG DARBY CREEK CROSSES UNDER IR-70. THE LAND RISES GENTLY FROM WEST TO EAST. THE ROADWAY IN THIS SECTION OF THE PROJECT DRAINS TO DRAINAGE DITCHES OFF THE OUTSIDE SHOULDERS OF THE ROADWAY AND THE MEDIAN WHICH EVENTUALLY DRAINS TO DRAINAGE BASINS ON BOTH SIDES OF THE ROADWAY AND MEDIAN. THE AREA IS MODERATELY VEGETATED, AND SIGNS OF STANDING WATER SUCH AS CATTAILS WERE OBSERVED AT SEVERAL LOCATIONS IN THE DRAINAGE DITCHES ALONG THIS SECTION OF IR-70. NO SIGNS OF DISTRESS DUE TO GEOTECHNICAL CONCERNS WERE OBSERVED.

IR-70 AND RAMPS BETWEEN ALTON DARBY CREEK ROAD AND HILLIARD-ROME ROAD

IN GENERAL, THE PAVEMENT CONDITION OF THE EXISTING RAMPS FROM IR-70 TO HILLIARD ROME ROAD AS WELL AS IR-70 BETWEEN ALTON DARBY CREEK ROAD AND HILLIARD-ROME ROAD WAS OBSERVED TO BE GOOD WITH SOME SIGNS OF WEATHERING AND SURFACE WEAR. OCCASIONAL EDGE CRACKING AND TRANSVERSE CRACKING WAS COMMON ALONG THIS SECTION, AS WELL AS CRACK SEALING DEFICIENCIES. THE PROJECT AREA IN THIS SECTION IS ROUGHLY LEVEL WITH THE SURROUNDING LAND. THE EXCEPTION IS THE RAMP WHICH SITS ATOP A 3.5H:1V EMBANKMENT SLOPE. THE ROADWAY IN THIS SECTION OF THE PROJECT DRAINS DIRECTLY TO DRAINAGE DITCHES PAST BOTH SHOULDERS OF THE ROADWAY AS WELL AS THE MEDIAN. THE RUNOFF EVENTUALLY DRAINS TO DRAINAGE BASINS IN THE DRAINAGE DITCHES. THE AREA IS MODERATELY VEGETATED, AND SIGNS OF STANDING WATER SUCH AS CATTAILS WERE OBSERVED AT SEVERAL LOCATIONS IN THE DRAINAGE DITCHES ALONG THIS SECTION OF IR-70 AND THE RAMP.

SUBSURFACE EXPLORATION

SUBSURFACE EXPLORATION WAS CONDUCTED BETWEEN JUNE 26, 2023, AND JULY 12, 2023, AND INCLUDED 73 BORINGS DRILLED TO DEPTHS OF 7.5 FT BELOW GROUND SURFACE (BGS).
BORINGS WERE DRILLED USING A CME 75T TRUCK-MOUNTED DRILLING RIG UTILIZING 4-INCH I.D. FLIGHT AUGERS. SOIL SAMPLES WERE RECOVERED CONTINUOUSLY TO A DEPTH OF 7.5 FT BGS THEREAFTER USING AN 18-INCH SPLIT SPOON SAMPLER (AASHTO T-206 "STANDARD METHOD FOR PENETRATION TEST AND SPLIT BARREL SAMPLING OF SOILS."). STANDARD PENETRATION TESTS (SPT) WERE CONDUCTED USING A CME AUTO HAMMER CALIBRATED TO BE 79% EFFICIENT ON JANUARY 24, 2022.

EXPLORATION FINDINGS

THE SUBGRADE CONDITIONS IN THE PROJECT AREA ARE RELATIVELY CONSISTENT, CONSISTING OF EITHER FILL SOILS (SUCH AS EMBANKMENT FILL OR HISTORICAL/URBAN FILL) OR NATURAL SOILS, INCLUDING SANDY SILT, SILT, AND SILT/CLAY COMBINATIONS. THE PREDOMINANT SUBGRADE SOIL CLASSIFICATIONS WITHIN THE PROJECT LIMITS INCLUDE A-4a, A-6a, A-6b, AND A-7-6, WITH LESSER OCCURRENCES OF A-1-a, A-1-b, A-2-4, AND A-3a.

IR-70 EB

ALONG IR-70 EB, ELEVEN PERCENT (11%) OF THE SAMPLES TAKEN ALONG THE PROPOSED ROADWAY WERE CLASSIFIED AS COARSE GRAINED, NON-COHESIVE SOILS AND WERE COMPRISED OF: 1) GRAVEL AND/OR STONE FRAGMENTS (A-1-a, 1% OF SAMPLES); 2) GRAVEL AND/OR STONE FRAGMENTS WITH SAND (A-1-b, 4% OF SAMPLES); 3) GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT (A-2-4, 1% OF SAMPLES); 4) COARSE AND FINE SAND (A-3a, 1% OF SAMPLES); AND, 5) NON-COHESIVE SANDY SILT (A-4a, 4% OF SAMPLES). WITH RESPECT TO THE RELATIVE DENSITY OF THE COARSE GRAINED SOILS, THE DESCRIPTIONS VARIED FROM VERY LOOSE TO VERY DENSE.
EIGHTY-NINE PERCENT (89%) OF THE SOIL SAMPLES WERE IDENTIFIED AS FINE-GRAINED SOILS AND WERE COMPRISED OF: 1) COHESIVE SANDY SILT (A-4a, 11% OF SAMPLES); 2) SILT AND CLAY (A-6a, 21% OF SAMPLES); 3) SILTY CLAY (A-6b, 15% OF SAMPLES); 4) ELASTIC CLAY (A-7-5, 1% OF SAMPLES); AND, 5) CLAY (A-7-6, 40% OF SAMPLES). WITH RESPECT TO THE RELATIVE STRENGTH OF THE FINE GRAINED SOILS, THE DESCRIPTIONS VARIED FROM SOFT TO HARD.

LEGEND

	DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL	
	GRAVEL	A-1-a	3	-
	GRAVEL AND STONE FRAGMENTS WITH SAND	A-1-b	5	3
	STONE FRAGMENTS WITH SAND AND SILT	A-2-4	3	1
	COARSE AND FINE SAND	A-3a	2	-
	SANDY SILT	A-4a	31	29
	SILT AND CLAY	A-6a	42	29
	SILTY CLAY	A-6b	31	25
	ELASTIC CLAY	A-7-5	2	1
	CLAY	A-7-6	42	59
		TOTAL	161	147
	PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL		
	BORING LOCATION - PLAN VIEW.			
	DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.			
WC	INDICATES WATER CONTENT IN PERCENT.			
N_{60}	INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.			
X/Y/D''	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X= NUMBER OF BLOWS FOR FIRST 6 INCHES. Y/D''= NUMBER OF BLOWS (UNCORRECTED) FOR D'' OF PENETRATION AT REFUSAL.			
SS	INDICATES A SPLIT SPOON SAMPLE.			
NP	INDICATES A NON-PLASTIC SAMPLE.			

EXPLORATION FINDINGS

IR-70 WB

ALONG IR-70 WB, EIGHT PERCENT (8%) OF THE SAMPLES TAKEN ALONG THE PROPOSED ROADWAY WERE CLASSIFIED AS COARSE GRAINED, NON-COHESIVE SOILS AND WERE COMPRISED OF: 1) GRAVEL AND/OR STONE FRAGMENTS WITH SAND (A-1-b, 2% OF SAMPLES); 2) GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT (A-2-4, 1% OF SAMPLES); AND, 3) NON-COHESIVE SANDY SILT (A-4a, 5% OF SAMPLES). WITH RESPECT TO THE RELATIVE DENSITY OF THE COARSE GRAINED SOILS, THE DESCRIPTIONS VARIED FROM MEDIUM DENSE TO DENSE.
NINETY-TWO PERCENT (92%) OF THE SOIL SAMPLES WERE IDENTIFIED AS FINE-GRAINED SOILS AND WERE COMPRISED OF: 1) COHESIVE SANDY SILT (A-4a, 21% OF SAMPLES); 2) SILT AND CLAY (A-6a, 24% OF SAMPLES); 3) SILTY CLAY (A-6b, 22% OF SAMPLES); 4) ELASTIC CLAY (A-7-5, 1% OF SAMPLES); AND, 5) CLAY (A-7-6, 25% OF SAMPLES). WITH RESPECT TO THE RELATIVE STRENGTH OF THE FINE GRAINED SOILS, THE DESCRIPTIONS VARIED FROM SOFT TO HARD.

RAMP FROM HILLIARD-ROME ROAD SB TO IR-70 WB

ALONG THE ENTRANCE RAMP FROM HILLIARD-ROME ROAD SB TO IR-70 WB, EIGHT PERCENT (8%) OF THE SAMPLES TAKEN ALONG THE PROPOSED ROADWAY WERE CLASSIFIED AS COARSE GRAINED, NON-COHESIVE SOILS AND WERE COMPRISED OF GRAVEL AND/OR STONE FRAGMENTS (A-1-a, 8% OF SAMPLES). WITH RESPECT TO THE RELATIVE DENSITY OF THE COARSE GRAINED SOILS, THE SAMPLE WAS DESCRIBED AS VERY LOOSE.
NINETY-TWO PERCENT (92%) OF THE SOIL SAMPLES WERE IDENTIFIED AS FINE-GRAINED SOILS AND WERE COMPRISED OF: 1) SILT AND CLAY (A-6a, 42% OF SAMPLES); AND, 2) CLAY (A-7-6, 50% OF SAMPLES). WITH RESPECT TO THE RELATIVE STRENGTH OF THE FINE GRAINED SOILS, THE DESCRIPTIONS VARIED FROM MEDIUM STIFF TO VERY STIFF.
GROUNDWATER WAS NOT OBSERVED IN ANY OF THE PROJECT BORINGS PERFORMED BY NEAS FOR SUBGRADE PURPOSES. IT SHOULD BE NOTED THAT GROUNDWATER IS AFFECTED BY MANY HYDROLOGIC CHARACTERISTICS IN THE AREA AND MAY VARY FROM THOSE MEASURED AT THE TIME OF THE EXPLORATION.

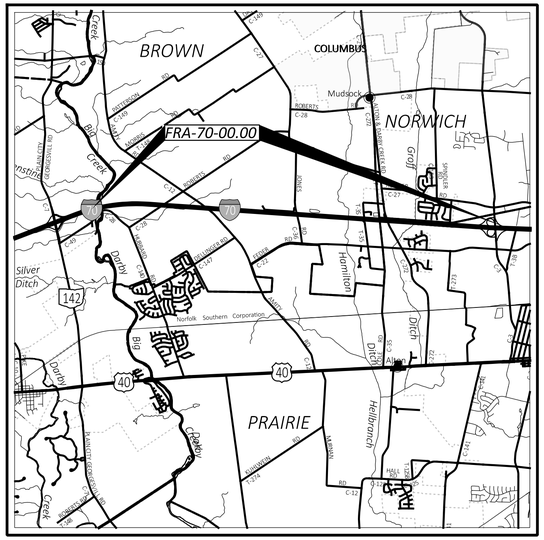
ROCK WAS NOT ENCOUNTERED WITHIN THE SUBGRADE DEPTHS OF ANY OF THE BORINGS PERFORMED WITHIN THE PROJECT ROADWAY LIMITS.

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTEMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATION, DATED JANUARY, 2024

AVAILABLE INFORMATION

THE SOIL, BEDROCK, AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE GEOTECHNICAL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.



LOCATION MAP

SCALE IN MILES

0 1 2 3 4

N

PARTICLE SIZE DEFINITIONS

12"	3"	2.0 mm	0.42 mm	0.074 mm	0.005 mm
BOULDERS	COBBLES	GRAVEL	COARSE SAND	FINE SAND	SILT	CLAY
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE	

INDEX OF SHEETS

SUMMARY OF SOIL TEST DATA, SHEETS 2-5.

LOCATION		PLAN VIEW SHEET	PROFILE SHEET	CROSS SECTION	STRUCTURES INCLUDED
FROM STA.	TO STA.				SFN
IR-70					
812+00	2+07	6	6	-	-
2+07	14+57	7	7	-	-
14+57	27+07	8	8	-	-
27+07	39+57	9	9	-	-
39+57	52+07	10	10	-	-
52+07	64+57	11	11	-	-
64+57	77+07	12	12	-	-
77+07	89+57	13	13	-	-
89+57	102+07	14	14	-	-
102+07	114+57	15	15	-	-
114+57	127+07	16	16	-	-
127+07	139+57	17	17	-	-
139+57	152+07	18	18	-	-
152+07	164+57	19	19	-	-
164+57	177+07	20	20	-	-
177+07	189+57	21	21	-	-
189+57	202+07	22	22	-	-
202+07	214+57	23	23	-	-
214+57	227+07	24	24	-	-
227+07	239+57	25	25	-	-
239+57	252+07	26	26	-	-
252+07	264+57	27	27	-	-
264+57	END	28	28	-	-
RAMP A					
BEGIN	END	29	29	-	-

RECON. - MWJ, 05-23-2023
DRILLING - JH, 06-26-2023 TO 07-12-2023
DRAWN - DT, 04-17-2024
REVIEWED - CH, 05-28-2024

GEOTECHNICAL PROFILE - ROADWAY

DESIGN AGENCY: NEAS Noble Engineering & Architectural Services Inc.
DESIGNER: DT
REVIEWER: CH 05/28/24
PROJECT ID: 116949
SUBSET 1 | TOTAL 29
SHEET P.0 | TOTAL 0

FRA-70-00.00

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:34:23 PM USER: drarawneh
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MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:25:41 PM USER: dtarawneh
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SUMMARY OF SOIL TEST DATA
IR-70

EXPLORATION NO., STATION & OFFSET	FROM		TO	SAMPLE ID	N60	% REC	HP tsf	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-001-0-23	01.50	-	03.00	SS-1	88	33		22	28	22	23	5	NP	NP	NP	11	A-3a (0)	1840
STA. 813+31, 24' RT.	03.00	-	04.50	SS-2	25	100	4.5	18	15	17	34	16	20	14	6	9	A-4a (3)	
LATITUDE = 39.979990	04.50	-	06.00	SS-3	3	50	4				SAME AS SS-2					10	A-4a (VISUAL)	
LONGITUDE = -83.252400	06.00	-	07.50	SS-4	13	89	2.75				SAME AS SS-2					16	A-4a (VISUAL)	
B-002-0-23	01.50	-	03.00	SS-1	24	33		48	22	12	12	6	NP	NP	NP	7	A-1-b (0)	60
STA. 1+41, 70' LT.	03.00	-	04.50	SS-2	20	67	4.5	11	11	14	38	26	26	15	11	10	A-6a (6)	
LATITUDE = 39.980917	04.50	-	06.00	SS-3	13	67	4.5				SAME AS SS-2					12	A-6a (VISUAL)	
LONGITUDE = -83.248814	06.00	-	07.50	SS-4	16	44	4.5			BROWN AND GRAY, SILTY CLAY, LITTLE SAND, TRACE GRAVEL						14	A-6b (VISUAL)	
B-003-0-23	01.50	-	03.00	SS-1	22	39	4.5	7	10	13	41	29	29	16	13	12	A-6a (8)	0
STA. 5+38, 32' LT.	03.00	-	04.50	SS-2	25	89	4.5	9	11	14	39	27	27	15	12	12	A-6a (7)	
LATITUDE = 39.980999	04.50	-	06.00	SS-3	18	100	4.5				SAME AS SS-2					10	A-6a (VISUAL)	
LONGITUDE = -83.247394	06.00	-	07.50	SS-4	25	100	4.5				SAME AS SS-2					12	A-6a (VISUAL)	
B-004-0-23	01.50	-	03.00	SS-1	11	78	4.5	15	7	10	36	32	33	16	17	13	A-6b (9)	53
STA. 9+67, 28' LT.	03.00	-	04.50	SS-2	12	67	4.5				SAME AS SS-1					20	A-6b (VISUAL)	
LATITUDE = 39.981158	04.50	-	06.00	SS-3	14	100	3	3	3	8	41	45	48	23	25	23	A-7-6 (16)	
LONGITUDE = -83.245887	06.00	-	07.50	SS-4	22	100	3.5				SAME AS SS-3					21	A-7-6 (VISUAL)	
B-005-0-23	01.50	-	03.00	SS-1	17	50	4.5	14	10	13	35	28	29	16	13	12	A-6a (7)	73
STA. 13+67, 73' RT.	03.00	-	04.50	SS-2	32	39	4.5	10	9	13	37	31	31	16	15	13	A-6a (9)	
LATITUDE = 39.981011	04.50	-	06.00	SS-3	12	78	4	12	7	11	37	33	38	18	20	18	A-6b (11)	
LONGITUDE = -83.244403	06.00	-	07.50	SS-4	21	100	4.25				SAME AS SS-3					19	A-6b (VISUAL)	
B-006-0-23	01.50	-	03.00	SS-1	9	39	4.5	4	5	10	38	43	42	19	23	17	A-7-6 (14)	13
STA. 17+23, 33' RT.	03.00	-	04.50	SS-2	12	50	4.5	7	4	9	39	41	44	19	25	19	A-7-6 (15)	
LATITUDE = 39.981218	04.50	-	06.00	SS-3	9	100	1.5			DARK GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL						31	A-7-6 (VISUAL)	
LONGITUDE = -83.243167	06.00	-	07.50	SS-4	13	100	1.75			BRN , ORNG AND GRAY, CLAY, SOME SILT, LITTLE SAND, TRACE GRAVEL						21	A-7-6 (VISUAL)	
B-007-0-23	00.00	-	01.50	SS-1	14	83	4.5	21	9	13	32	25	31	16	15	11	A-6a (6)	33
STA. 20+79, 21' RT.	01.50	-	03.00	SS-2	17	44		33	17	12	23	15	NP	NP	NP	8	A-4a (1)	
LATITUDE = 39.981301	03.00	-	04.50	SS-3	17	100	4.5	9	8	13	39	31	29	16	13	11	A-6a (8)	
LONGITUDE = -83.241766	04.50	-	06.00	SS-4	11	100	4.5				SAME AS SS-3					12	A-6a (VISUAL)	
	06.00	-	07.50	SS-5	18	100	4.5				SAME AS SS-3					13	A-6a (VISUAL)	
B-008-0-23	01.50	-	03.00	SS-1	36	72	4.5	26	14	13	29	18	23	14	9	9	A-4a (2)	93
STA. 25+24, 74' LT.	03.00	-	04.50	SS-2	34	100	4.5	14	12	14	38	22	23	15	8	12	A-4a (5)	
LATITUDE = 39.981562	04.50	-	06.00	SS-3	20	100	4.5				SAME AS SS-2					11	A-4a (VISUAL)	
LONGITUDE = -83.240317	06.00	-	07.50	SS-4	22	100	4.5				SAME AS SS-2					12	A-4a (VISUAL)	
B-009-0-23	01.50	-	03.00	SS-1	21	33	4.25	12	11	13	38	26	25	15	10	11	A-4a (6)	13
STA. 29+27, 32' LT.	03.00	-	04.50	SS-2	28	100	4.5				SAME AS SS-1					10	A-4a (VISUAL)	
LATITUDE = 39.981424	04.50	-	06.00	SS-3	41	100		37	19	11	22	11	21	15	6	9	A-2-4 (0)	
LONGITUDE = -83.238876	06.00	-	07.50	SS-4	47	100	4.5			BROWN AND GRAY, SANDY SILT, SOME CLAY, LITTLE GRAVEL						10	A-4a (VISUAL)	
B-010-0-23	01.50	-	03.00	SS-1	16	72		49	23	8	16	4	NP	NP	NP	8	A-1-b (0)	0
STA. 33+26, 27' LT.	03.00	-	04.50	SS-2	12	100					SAME AS SS-1					7	A-1-b (VISUAL)	
LATITUDE = 39.981369	04.50	-	06.00	SS-3	20	100	4.25	32	11	11	29	17	23	14	9	10	A-4a (2)	
LONGITUDE = -83.237452	06.00	-	07.50	SS-4	20	100	4.25				SAME AS SS-3					11	A-4a (VISUAL)	
B-011-0-23	01.50	-	03.00	SS-1	42	83	4.25	30	14	12	28	16	21	15	6	10	A-4a (2)	100
STA. 37+20, 72' RT.	03.00	-	04.50	SS-2	21	100	4.5	15	12	14	37	22	21	14	7	10	A-4a (5)	
LATITUDE = 39.981030	04.50	-	06.00	SS-3	30	28	4.5				SAME AS SS-2					11	A-4a (VISUAL)	
LONGITUDE = -83.236071	06.00	-	07.50	SS-4	45	100				GRAY, STONE FRAGMENTS WITH SAND AND SILT, TRACE CLAY						9	A-2-4 (VISUAL)	
B-012-0-23	01.50	-	03.00	SS-1	16	78	4.5	24	13	13	31	19	23	15	8	10	A-4a (3)	193
STA. 41+27, 26' RT.	03.00	-	04.50	SS-2	25	100	4.5	17	12	14	36	21	22	14	8	9	A-4a (4)	
LATITUDE = 39.981093	04.50	-	06.00	SS-3	34	100	4.5				SAME AS SS-2					8	A-4a (VISUAL)	
LONGITUDE = -83.234609	06.00	-	07.50	SS-4	54	100	4.5				SAME AS SS-2					8	A-4a (VISUAL)	
B-013-0-23	01.50	-	03.00	SS-1	22	61		52	21	8	15	4	NP	NP	NP	9	A-1-b (0)	0
STA. 45+07, 27' RT.	03.00	-	04.50	SS-2	16	28					SAME AS SS-1					7	A-1-b (VISUAL)	
LATITUDE = 39.981058	04.50	-	06.00	SS-3	17	100	3	7	7	10	36	40	48	20	28	22	A-7-6 (17)	
LONGITUDE = -83.233256	06.00	-	07.50	SS-4	21	100	3.5				SAME AS SS-3					20	A-7-6 (VISUAL)	
B-014-0-23	01.50	-	03.00	SS-1	13	83	4.25	12	12	13	35	28	30	16	14	15	A-6a (7)	0
STA. 48+99, 73' LT.	03.00	-	04.50	SS-2	16	100	4.5	8	10	13	37	32	32	17	15	15	A-6a (9)	
LATITUDE = 39.981230	04.50	-	06.00	SS-3	17	100	4.5	16	12	14	36	22	24	16	8	11	A-4a (5)	
LONGITUDE = -83.231841	06.00	-	07.50	SS-4	24	100	4.25			BROWNISH GRAY AND DARL GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL						21	A-6a (VISUAL)	
B-015-0-23	01.50	-	03.00	SS-1	9	44	2.75	5	7	13	41	34	31	17	14	17	A-6a (10)	20
STA. 52+97, 33' LT.	03.00	-	04.50	SS-2	14	100	3				SAME AS SS-1					23	A-6a (VISUAL)	
LATITUDE = 39.981043	04.50	-	06.00	SS-3	26	100	4.5	14	12	14	37	23	24	15	9	12	A-4a (5)	
LONGITUDE = -83.230429	06.00	-	07.50	SS-4	29	100	4.5				SAME AS SS-3					12	A-4a (VISUAL)	
B-016-0-23	00.00	-	01.50	SS-1	7	83	4.5	18	12	14	34	22	28	16	12	13	A-6a (5)	20
STA. 56+42, 25' LT.	01.50	-	03.00	SS-2	9	100	4.5	21	9	10	31	29	37	18	19	16	A-6b (9)	
LATITUDE = 39.980953	03.00	-	04.50	SS-3	12	89	3.25				SAME AS SS-2					17	A-6b (VISUAL)	
LONGITUDE = -83.228969	04.50	-	06.00	SS-4	16	100	3.75				SAME AS SS-2					19	A-6b (VISUAL)	
	06.00	-	07.50	SS-5	22	100	3.75				SAME AS SS-2					12	A-6b (VISUAL)	
B-017-0-23	01.50	-	03.00	SS-1	18	61	4.5	23	11	11	32	23	31	16	15	12	A-6a (6)	80
STA. 61+13, 74' RT.	03.00	-	04.50	SS-2	18	100	4.5	22	11	13	32	22	24	15	9	11	A-4a (4)	
LATITUDE = 39.980630	04.50	-	06.00	SS-3	9	100	4.5				SAME AS SS-2					12	A-4a (VISUAL)	
LONGITUDE = -83.227546	06.00	-	07.50	SS-4	9	100	3.5			BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL						14	A-6a (VISUAL)	
B-018-0-23	01.50	-	03.00	SS-1	16	44	3.75	8	7	10	41	34	36	18	18	17	A-6b (11)	107
STA. 64+98, 33' RT.	03.00	-	04.50	SS-2	25	100	4.5	14	12	14	36	24	29	17	12	14	A-6a (6)	
LATITUDE = 39.980687	04.50	-	06.00	SS-3	16	100	4.5				SAME AS SS-2					13	A-6a (VISUAL)	
LONGITUDE = -83.226167	06.00	-	07.50	SS-4	21	100	4.5			BROWNISH GRAY, SANDY SILT, SOME CLAY, TRACE GRAVEL						13	A-4a (VISUAL)	
B-019-0-23	01.50	-	03.00	SS-1	11	100	4.25	2	6	11	41	40	37	18	19	17	A-6b (12)	20
STA. 68+75, 25' RT.	03.00	-	04.50	SS-2	17	100	4.5	14	11	15	36	24	23	15	8	11	A-4a (5)	
LATITUDE = 39.980658	04.50	-	06.00	SS-3	13	100	4.25			BROWN, SILTY CLAY, LITTLE SAND, TRACE GRAVEL						16	A-6b (VISUAL)	
LONGITUDE = -83.224754	06.00	-	07.50	SS-4	14	100	4				SAME AS SS-3					15	A-6b (VISUAL)	
B-020-0-23	01.50	-	03.00	SS-1	36	61		28	25	12	24	11	17	14	3	7	A-2-4 (0)	
STA. 72+32, 72' LT.	03.00	-	04.50	SS-2	18	100	4.5	14	12	15	36	23	24	14	10	13	A-4a (5)	7
LATITUDE = 39.980845	04.50	-	06.00	SS-3	22	100	4.5	34	10	11	28	17	24	16	8	11	A-4a (2)	
LONGITUDE = -83.223527	06.00	-	07.50	SS-4	54	100	4.5				SAME AS SS-3					9	A-4a (VISUAL)	
B-021-0-23	01.50	-	03.00	SS-1	33	39	4.5	10	12	15	38	25	21	15	6	12	A-4a (6)	53
STA. 76+67, 29' LT.	03.00	-	04.50	SS-2	37	100	4.5	11	16	23	34	16	18	14	4	11	A-4a (3)	
LATITUDE = 39.980644	04.50	-	06.00	SS-3	46	100	4.5				SAME AS SS-2					9	A-4a (VISUAL)	
LONGITUDE = -83.221991	06.00	-	07.50	SS-4	28	100	4.5				SAME AS SS-2					11	A-4a (VISUAL)	
B-022-0-23	00.00	-	01.50	SS-1	7	22	4.5				SAME AS SS-2					17	A-6b (VISUAL)	
STA. 81+02, 25' LT.	01.50	-	03.00	SS-2	13	100	4.5	12	7	11	37	33	35	18	17	14	A-6b (10)	20
LATITUDE = 39.980569	03.00	-	04.50	SS-3	32	44	4.5				SAME AS SS-2					11	A-6b (VISUAL)	
LONGITUDE = -83.220464	04.50	-	06.00	SS-4	26	100	4.5	15	14	18	35	18	20	14	6	10	A-4a (4)	
	06.00	-	07.50	SS-5	42	100	4.5			BROWN, SANDY SILT, SOME STONE FRAGMENTS, LITTLE CLAY						8	A-4a (VISUAL)	

GEOTECHNICAL PROFILE - ROADWAY
SUMMARY OF SOIL TEST DATA

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:26:10 PM USER: dtarawneh
P:\OHDOT_v3\WorkSets\116949-FRA\400-Engineering\Geotechnical\Sheets\116949-FRA_ID002.dgn

SUMMARY OF SOIL TEST DATA
IR-70

EXPLORATION NO., STATION & OFFSET	FROM		TO	SAMPLE ID	N60	% REC	HP tsf	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-023-0-23	01.50	-	03.00	SS-1	21	44		33	14	10	26	17	28	16	12	12	A-6a (2)	133
STA. 84+52, 73' RT.	03.00	-	04.50	SS-2	12	100	4.5	14	8	12	37	29	33	19	14	15	A-6a (8)	
LATITUDE = 39.980244	04.50	-	06.00	SS-3	13	100	3.5				SAME AS SS-2					13	A-6a (VISUAL)	
LONGITUDE = -83.219218	06.00	-	07.50	SS-4	21	100	4.5				SAME AS SS-2					12	A-6a (VISUAL)	
B-024-0-23	01.50	-	03.00	SS-1	12	56	4.25	5	6	10	38	41	40	18	22	16	A-6b (13)	20
STA. 88+68, 30' RT.	03.00	-	04.50	SS-2	17	100	4.25				SAME AS SS-1					16	A-6b (VISUAL)	
LATITUDE = 39.980293	04.50	-	06.00	SS-3	8	100	4.25	5	4	10	38	43	46	20	26	22	A-7-6 (16)	
LONGITUDE = -83.217726	06.00	-	07.50	SS-4	11	100	1.75				SAME AS SS-3					33	A-7-6 (VISUAL)	
B-025-0-23	00.00	-	01.50	SS-1	14	67	4.5	22	13	12	29	24	31	17	14	12	A-6a (5)	
STA. 92+77, 24' RT.	01.50	-	03.00	SS-2	11	56	4.25	6	5	10	39	40	41	18	23	15	A-7-6 (13)	100
LATITUDE = 39.980266	03.00	-	04.50	SS-3	16	89	4.25				SAME AS SS-2					19	A-7-6 (VISUAL)	
LONGITUDE = -83.216260	04.50	-	06.00	SS-4	28	100	4.25				SAME AS SS-2					10	A-7-6 (VISUAL)	
	06.00	-	07.50	SS-5	24	28	4.25				SAME AS SS-2					13	A-7-6 (VISUAL)	
B-026-0-23	01.50	-	03.00	SS-1	22	56	4.5	17	10	13	34	26	28	16	12	12	A-6a (6)	160
STA. 96+38, 73' LT.	03.00	-	04.50	SS-2	28	100	4.5	10	11	14	39	26	25	16	9	11	A-4a (6)	
LATITUDE = 39.980441	04.50	-	06.00	SS-3	18	100	4.25		BROWN WITH GRAY, SILT AND CLAY, SOME SAND, TRACE GRAVEL							14	A-6a (VISUAL)	
LONGITUDE = -83.214961	06.00	-	07.50	SS-4	21	100	4				SAME AS SS-3					15	A-6a (VISUAL)	
B-027-0-23	01.50	-	03.00	SS-1	13	44	4.5	5	4	9	39	43	44	21	23	18	A-7-6 (14)	0
STA. 100+48, 34' LT.	03.00	-	04.50	SS-2	12	89	4	3	4	9	41	43	46	21	25	21	A-7-6 (15)	
LATITUDE = 39.980252	04.50	-	06.00	SS-3	12	100	3.5				SAME AS SS-2					32	A-7-6 (VISUAL)	
LONGITUDE = -83.213511	06.00	-	07.50	SS-4	16	100	2.5				SAME AS SS-2					25	A-7-6 (VISUAL)	
B-028-0-23	00.00	-	01.50	SS-1	5	33	4.5	1	4	7	43	45	45	20	25	21	A-7-6 (15)	40
STA. 105+33, 24' LT.	01.50	-	03.00	SS-2	12	56	4.5	15	8	10	34	33	39	19	20	15	A-6b (10)	
LATITUDE = 39.980170	03.00	-	04.50	SS-3	17	100	4.5				SAME AS SS-2					15	A-6b (VISUAL)	
LONGITUDE = -83.211782	04.50	-	06.00	SS-4	9	39	4.5		BROWN WITH GRAY, SANDY SILT, SOME CLAY, TRACE GRAVEL							15	A-4a (VISUAL)	
	06.00	-	07.50	SS-5	17	100	2.5		BRN , GRAY AND ORNG , CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL							28	A-7-6 (VISUAL)	
B-029-0-23	01.50	-	03.00	SS-1	14	61	4.5	8	7	11	38	36	37	18	19	15	A-6b (11)	0
STA. 108+58, 73' RT.	03.00	-	04.50	SS-2	14	100	4.5	13	5	9	41	32	35	19	16	16	A-6b (10)	
LATITUDE = 39.979840	04.50	-	06.00	SS-3	11	100	3.25	4	2	5	42	47	67	34	33	37	A-7-5 (20)	
LONGITUDE = -83.210648	06.00	-	07.50	SS-4	16	100	3.5				SAME AS SS-3					29	A-7-5 (VISUAL)	
B-030-0-23	01.50	-	03.00	SS-1	11	50	4.25	1	3	9	40	47	46	21	25	21	A-7-6 (15)	0
STA. 112+56, 36' RT.	03.00	-	04.50	SS-2	17	89	3				SAME AS SS-1					18	A-7-6 (VISUAL)	
LATITUDE = 39.979893	04.50	-	06.00	SS-3	13	100	4.25	4	5	11	43	37	40	19	21	21	A-6b (12)	
LONGITUDE = -83.209218	06.00	-	07.50	SS-4	20	100	4.5				SAME AS SS-3					16	A-6b (VISUAL)	
B-031-0-23	00.00	-	01.50	SS-1	11	17		47	10	9	21	13	NP	NP	NP	11	A-2-4 (0)	
STA. 116+87, 25' RT.	01.50	-	03.00	SS-2	12	50	4.5	9	9	11	35	36	39	19	20	16	A-6b (11)	0
LATITUDE = 39.979855	03.00	-	04.50	SS-3	17	83	4.25	1	2	6	45	46	48	22	26	21	A-7-6 (16)	
LONGITUDE = -83.207686	04.50	-	06.00	SS-4	17	100	4.25				SAME AS SS-3					24	A-7-6 (VISUAL)	
	06.00	-	07.50	SS-5	24	100	4.25				SAME AS SS-3					24	A-7-6 (VISUAL)	
B-032-0-23	01.50	-	03.00	SS-1	20	50	4.5	25	16	14	27	18	23	14	9	9	A-4a (2)	53
STA. 120+63, 73' LT.	03.00	-	04.50	SS-2	11	100	2.75	11	5	11	34	39	41	17	24	19	A-7-6 (13)	
LATITUDE = 39.980040	04.50	-	06.00	SS-3	20	100	3.5				SAME AS SS-2					21	A-7-6 (VISUAL)	
LONGITUDE = -83.206325	06.00	-	07.50	SS-4	24	100	3.5				SAME AS SS-2					25	A-7-6 (VISUAL)	
B-033-0-23	01.50	-	03.00	SS-1	13	39	4.5	10	8	13	37	32	30	17	13	14	A-6a (8)	33
STA. 124+46, 33' LT.	03.00	-	04.50	SS-2	9	28	4.5				SAME AS SS-1					12	A-6a (VISUAL)	
LATITUDE = 39.979853	04.50	-	06.00	SS-3	16	100	3	13	5	8	41	33	35	18	17	17	A-6b (11)	
LONGITUDE = -83.204968	06.00	-	07.50	SS-4	17	100	2.75				SAME AS SS-3					24	A-6b (VISUAL)	
B-034-0-23	00.00	-	01.50	SS-1	8	44	4.5	27	18	14	24	17	24	15	9	10	A-4a (1)	40
STA. 130+77, 24' LT.	01.50	-	03.00	SS-2	11	78	4.5	7	7	13	39	34	34	17	17	15	A-6b (10)	
LATITUDE = 39.979765	03.00	-	04.50	SS-3	12	100	2.5				SAME AS SS-2					17	A-6b (VISUAL)	
LONGITUDE = -83.203529	04.50	-	06.00	SS-4	13	100	4.25				SAME AS SS-2					17	A-6b (VISUAL)	
	06.00	-	07.50	SS-5	20	100	4.5		DARK GRAY, SANDY SILT, SOME CLAY, TRACE GRAVEL							22	A-4a (VISUAL)	
B-035-0-23	01.50	-	03.00	SS-1	21	67	4.5	9	8	13	39	31	30	17	13	15	A-6a (8)	13
STA. 132+38, 73' RT.	03.00	-	04.50	SS-2	12	33	4.25	9	11	12	39	29	31	16	15	16	A-6a (9)	
LATITUDE = 39.979444	04.50	-	06.00	SS-3	21	28	4				SAME AS SS-2					19	A-6a (VISUAL)	
LONGITUDE = -83.202169	06.00	-	07.50	SS-4	28	22	4				SAME AS SS-2					19	A-6a (VISUAL)	
B-036-0-23	01.50	-	03.00	SS-1	16	17		71	12	5	10	2	NP	NP	NP	5	A-1-a (0)	40
STA. 136+25, 26' RT.	03.00	-	04.50	SS-2	13	56	4.5	9	7	12	39	33	35	19	16	18	A-6b (10)	
LATITUDE = 39.979505	04.50	-	06.00	SS-3	13	100	3.5	7	6	10	38	39	41	19	22	19	A-7-6 (13)	
LONGITUDE = -83.200782	06.00	-	07.50	SS-4	21	100	4.25				SAME AS SS-3					20	A-7-6 (VISUAL)	
B-037-0-23	01.50	-	03.00	SS-1	24	44		69	11	4	14	2	NP	NP	NP	5	A-1-b (0)	73
STA. 140+25, 27' RT.	03.00	-	04.50	SS-2	14	50					SAME AS SS-1					6	A-1-b (VISUAL)	
LATITUDE = 39.979439	04.50	-	06.00	SS-3	12	100	4.25	1	3	12	34	50	52	22	30	24	A-7-6 (18)	
LONGITUDE = -83.199358	06.00	-	07.50	SS-4	22	100	4.5				SAME AS SS-3					17	A-7-6 (VISUAL)	
B-038-0-23	01.50	-	03.00	SS-1	36	67		19	23	18	26	14	22	15	7	10	A-4a (1)	100
STA. 144+10, 71' LT.	03.00	-	04.50	SS-2	38	100	4.5	6	13	16	39	26	25	15	10	10	A-4a (6)	
LATITUDE = 39.979645	04.50	-	06.00	SS-3	24	100	4.5				SAME AS SS-2					14	A-4a (VISUAL)	
LONGITUDE = -83.197965	06.00	-	07.50	SS-4	22	100	4	9	10	13	38	30	29	17	12	15	A-6a (7)	
B-039-0-23	01.50	-	03.00	SS-1	16	67		35	16	13	24	12	20	15	5	8	A-4a (0)	0
STA. 148+80, 27' LT.	03.00	-	04.50	SS-2	12	100	3.5	5	8	13	37	37	36	18	18	18	A-6b (11)	
LATITUDE = 39.979446	04.50	-	06.00	SS-3	9	100	4				SAME AS SS-2					23	A-6b (VISUAL)	
LONGITUDE = -83.196299	06.00	-	07.50	SS-4	14	100	4.5				SAME AS SS-2					20	A-6a (VISUAL)	
B-040-0-23	00.00	-	01.50	SS-1	8	22			BROWN AND DARK BROWN, SANDY SILT, LITTLE CLAY, TRACE GRAVEL							14	A-4a (VISUAL)	
STA. 153+50, 18' LT.	01.50	-	03.00	SS-2	9	100	3.25	13	9	8	39	31	36	19	17	19	A-6b (10)	40
LATITUDE = 39.979362	03.00	-	04.50	SS-3	9	100	2.5	9	10	13	35	33	49	22	27	27	A-7-6 (15)	
LONGITUDE = -83.195089	04.50	-	06.00	SS-4	14	100	4.5			BROWN, SANDY SILT, SOME CLAY, TRACE GRAVEL						15	A-4a (VISUAL)	
	06.00	-	07.50	SS-5	21	100	4.5				SAME AS SS-4					14	A-4a (VISUAL)	
B-041-0-23	01.50	-	03.00	SS-1	37	72	4.5	16	14	15	35	20	22	15	7	9	A-4a (4)	80
STA. 156+02, 73' RT.	03.00	-	04.50	SS-2	29	100	4.5				SAME AS SS-1					12	A-4a (VISUAL)	
LATITUDE = 39.979051	04.50	-	06.00	SS-3	17	100	4.25	11	14	16	36	23	23	16	7	13	A-4a (5)	
LONGITUDE = -83.193750	06.00	-	07.50	SS-4	24	100	3.75				SAME AS SS-3					13	A-4a (VISUAL)	
B-042-0-23	01.50	-	03.00	SS-1	20	33	3	9	8	11	38	34	37	18	19	19	A-6b (11)	113
STA. 160+55, 32' RT.	03.00	-	04.50	SS-2	16	39	4.25	1	1	5	36	57	65	29	36	30	A-7-6 (20)	
LATITUDE = 39.979090	04.50	-	06.00	SS-3	13	100	3				SAME AS SS-2					26	A-7-6 (VISUAL)	
LONGITUDE = -83.192129	06.00	-	07.50	SS-4	17	100	4				SAME AS SS-2					25	A-7-6 (VISUAL)	
B-043-0-23	00.00	-	01.50	SS-1	24	100	4.5	18	12	11	31	28	36	18	18	10	A-6b (8)	173
STA. 164+33, 23' RT.	01.50	-	03.00	SS-2	17	100	4.5				SAME AS SS-1					28	A-6b (VISUAL)	
LATITUDE = 39.979060	03.00	-	04.50	SS-3	12	100	4	0	2	7	38	53	56	23	33	25	A-7-6 (19)	
LONGITUDE = -83.190788	04.50	-	06.00	SS-4	13	100	3.75				SAME AS SS-3					24	A-7-6 (VISUAL)	
	06.00	-	07.50	SS-5	20	100	3				SAME AS SS-3					24	A-7-6 (VISUAL)	
B-044-0-23	01.50	-	03.00	SS-1	28	44		24	20	14	27	15	22	15	7	9	A-4a (1)	120
STA. 168+18, 72' LT.	03.00	-	04.50	SS-2	22	100	3.25	14	10	12	38	26	29	17	12	15	A-6a (7)	
LATITUDE = 39.979246	04.50	-	06.00	SS-3	14	100	4.25	12	12	14	38	24	25	15	10	13	A-4a (5)	
LONGITUDE = -83.189387	06.00	-	07.50	SS-4	24	100	4.25				SAME AS SS-3					15	A-4a (VISUAL)	
B-045-0-23	01.50	-	03.00	SS-1	14	44	4.5	6	9	12	41	32	32	18	14	16	A-6a (9)	0
STA. 172+13, 33' LT.	03.00	-	04.50	SS-2	9	100	3.75	5	4	8	45	38	39	20	19	20	A-6b (12)	
LATITUDE = 39.979055	04.50	-	06.00	SS-3	12	100	3.5		DARK GRAY TO BROWN, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL							23	A-7-6 (VISUAL)	
LONGITUDE = -83.187993	06.00	-	07.50	SS-4	18	100	3				SAME AS SS-3					23	A-7-6 (VISUAL)	
B-046-0-23	00.00	-	01.50	SS-1	14	22	4.5	9	10	15	35	31	32	17	15	12	A-6a (8)	20
STA. 176+72, 15' LT.	01.50	-	03.00	SS-2	21	56	4.5	3	4	10	44	39	38	19	19	16	A-6b (12)	
LATITUDE = 39.978932	03.00	-	04.50	SS-3	11	50	4.5				SAME AS SS-2					20	A-6b (VISUAL)	
LONGITUDE = -83.186340	04.50	-	06.00	SS-4	9	100	3.25				SAME AS SS-2					22	A-6b (VISUAL)	
	06.00	-	07.50	SS-5	12	100	4				SAME AS SS-2					16	A-6b (VISUAL)	

GEOTECHNICAL PROFILE - ROADWAY
SUMMARY OF SOIL TEST DATA

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:26:35 PM USER: dtarawneh
P:\OHDOT_v3\WorkSets\116949-FRA\400-Engineering\Geotechnical\Sheets\116949-FRA_ID003.dgn

SUMMARY OF SOIL TEST DATA
IR-70

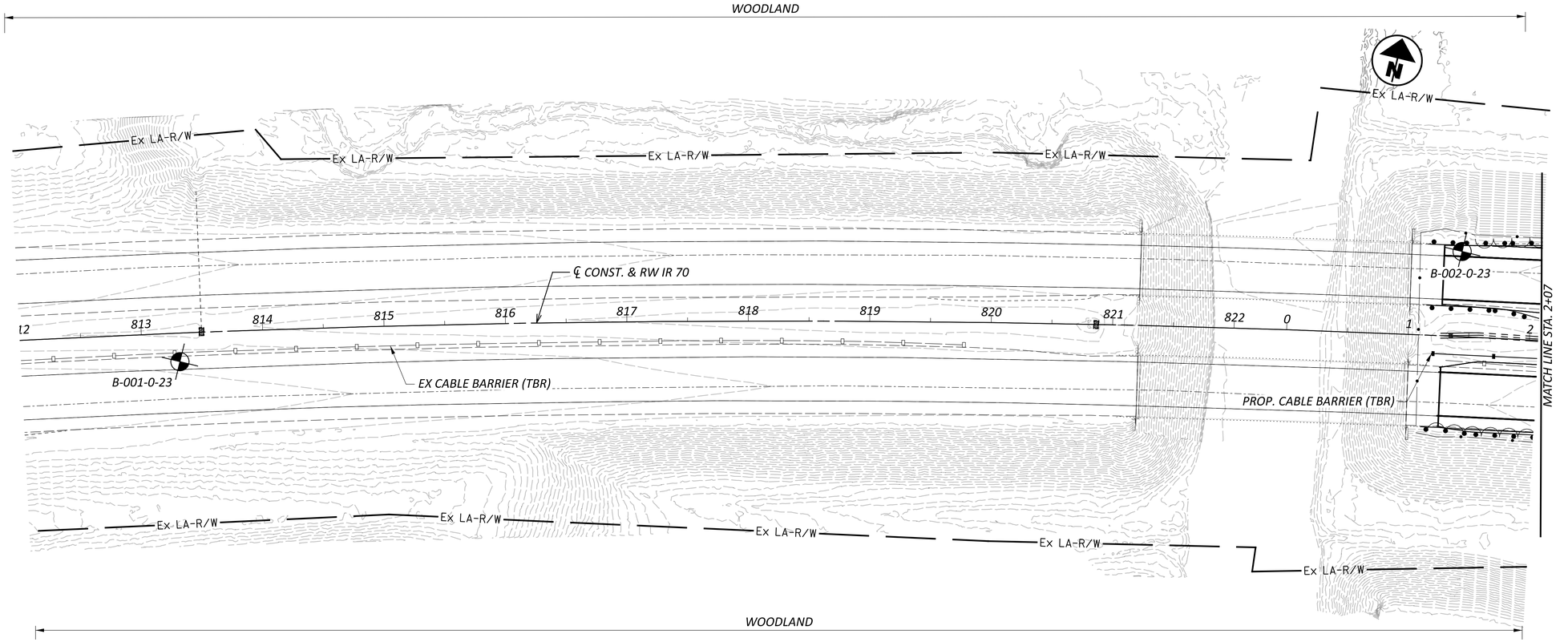
EXPLORATION NO., STATION & OFFSET	FROM		TO	SAMPLE ID	N60	% REC	HP tsf	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-047-0-23	01.50	-	03.00	SS-1	9	44	4.25	12	8	10	38	32	38	18	20	18	A-6b (11)	20
STA. 180+70, 73' RT.	03.00	-	04.50	SS-2	8	100	4.5				SAME AS SS-1					24	A-6b (VISUAL)	
LATITUDE = 39.978637	04.50	-	06.00	SS-3	13	100	2.75	7	6	11	44	32	31	17	14	17	A-6a (10)	
LONGITUDE = -83.184962	06.00	-	07.50	SS-4	24	100	3.25				SAME AS SS-3					14	A-6a (VISUAL)	
B-048-0-23	01.50	-	03.00	SS-1	4	33	4	5	6	9	35	45	48	20	28	23	A-7-6 (17)	140
STA. 183+73, 28' RT.	03.00	-	04.50	SS-2	4	78	2.75				SAME AS SS-1					22	A-7-6 (VISUAL)	
LATITUDE = 39.978710	04.50	-	06.00	SS-3	9	100	2.5				SAME AS SS-1					25	A-7-6 (VISUAL)	
LONGITUDE = -83.183873	06.00	-	07.50	SS-4	16	100	3	0	3	11	36	50	55	21	34	25	A-7-6 (19)	
B-049-0-23	00.00	-	01.50	SS-1	7	100	4.5	23	15	11	28	23	36	19	17	14	A-6b (6)	
STA. 187+70, 24' RT.	01.50	-	03.00	SS-2	5	100	3.5	1	4	9	52	34	43	26	17	29	A-7-6 (11)	467
LATITUDE = 39.978672	03.00	-	04.50	SS-3	4	100	2.75	0	2	4	48	46	51	20	31	26	A-7-6 (18)	
LONGITUDE = -83.182466	04.50	-	06.00	SS-4	7	100	3				SAME AS SS-3					25	A-7-6 (VISUAL)	
	06.00	-	07.50	SS-5	11	100	2.5				SAME AS SS-3					24	A-7-6 (VISUAL)	
B-050-0-23	01.50	-	03.00	SS-1	5	33		29	17	12	25	17	29	16	13	16	A-6a (2)	73
STA. 192+17, 74' LT.	03.00	-	04.50	SS-2	17	100	4.5	10	12	14	37	27	24	15	9	13	A-4a (6)	
LATITUDE = 39.978848	04.50	-	06.00	SS-3	16	100	4.5	11	11	15	36	27	25	14	11	13	A-6a (6)	
LONGITUDE = -83.180844	06.00	-	07.50	SS-4	20	100	4				SAME AS SS-3					16	A-6a (VISUAL)	
B-051-0-23	01.50	-	03.00	SS-1	20	56	4.5	8	10	13	37	32	29	17	12	13	A-6a (8)	0
STA. 196+14, 34' LT.	03.00	-	04.50	SS-2	8	78	3.5	1	3	7	45	44	61	32	29	33	A-7-5 (20)	
LATITUDE = 39.978653	04.50	-	06.00	SS-3	9	100	2.5	BROWN WITH DARK GRAY AND GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL								27	A-7-6 (VISUAL)	
LONGITUDE = -83.179440	06.00	-	07.50	SS-4	14	100	2.5				SAME AS SS-3					26	A-7-6 (VISUAL)	
B-052-0-23	00.00	-	01.50	SS-1	9	22	4.5	16	15	14	32	23	43	22	21	16	A-7-6 (9)	0
STA. 199+61, 20' LT.	01.50	-	03.00	SS-2	8	33	4.25	1	6	10	35	48	60	22	38	23	A-7-6 (20)	
LATITUDE = 39.978565	03.00	-	04.50	SS-3	14	100	4.5				SAME AS SS-2					16	A-7-6 (VISUAL)	
LONGITUDE = -83.178205	04.50	-	06.00	SS-4	14	100	4.5				BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL					12	A-6a (VISUAL)	
	06.00	-	07.50	SS-5	21	100	4.5				SAME AS SS-4					14	A-6a (VISUAL)	
B-053-0-23	01.50	-	03.00	SS-1	11	100	3.25	0	2	8	49	41	42	22	20	23	A-7-6 (12)	13
STA. 203+69, 73' RT.	03.00	-	04.50	SS-2	8	89	3.75				SAME AS SS-1					25	A-7-6 (VISUAL)	
LATITUDE = 39.978251	04.50	-	06.00	SS-3	9	100	2	2	3	11	39	45	46	20	26	26	A-7-6 (16)	
LONGITUDE = -83.176775	06.00	-	07.50	SS-4	12	100	2.75				SAME AS SS-3					22	A-7-6 (VISUAL)	
B-054-0-23	01.50	-	03.00	SS-1	8	67	4.5	1	2	8	53	36	35	20	15	19	A-6a (10)	20
STA. 207+83, 35' RT.	03.00	-	04.50	SS-2	12	100	4	0	2	5	41	52	56	22	34	24	A-7-6 (19)	
LATITUDE = 39.978300	04.50	-	06.00	SS-3	13	100	4.25				SAME AS SS-2					23	A-7-6 (VISUAL)	
LONGITUDE = -83.175288	06.00	-	07.50	SS-4	14	100	4.25				SAME AS SS-2					15	A-7-6 (VISUAL)	
B-055-0-23	00.00	-	01.50	SS-1	11	78	4.5	12	18	15	31	24	35	20	15	14	A-6a (6)	
STA. 211+88, 24' RT.	01.50	-	03.00	SS-2	9	28	2.75	0	3	7	43	47	57	23	34	25	A-7-6 (19)	0
LATITUDE = 39.978267	03.00	-	04.50	SS-3	7	44	2.25				SAME AS SS-2					26	A-7-6 (VISUAL)	
LONGITUDE = -83.173845	04.50	-	06.00	SS-4	8	100	2				SAME AS SS-2					25	A-7-6 (VISUAL)	
	06.00	-	07.50	SS-5	8	100	2				SAME AS SS-2					26	A-7-6 (VISUAL)	
B-056-0-23	01.50	-	03.00	SS-1	4	72		13	16	12	40	19	31	19	12	20	A-6a (6)	13
STA. 215+64, 73' LT.	03.00	-	04.50	SS-2	8	100	2.25	8	7	12	36	37	41	18	23	23	A-7-6 (13)	
LATITUDE = 39.978456	04.50	-	06.00	SS-3	8	100	4.25				SAME AS SS-2					14	A-7-6 (VISUAL)	
LONGITUDE = -83.172478	06.00	-	07.50	SS-4	14	100	4				SAME AS SS-2					17	A-7-6 (VISUAL)	
B-057-0-23	01.50	-	03.00	SS-1	14	72	3.5	7	7	12	40	34	37	19	18	20	A-6b (11)	0
STA. 219+90, 33' LT.	03.00	-	04.50	SS-2	14	100	4.5	12	8	14	36	30	34	18	16	16	A-6b (9)	
LATITUDE = 39.978256	04.50	-	06.00	SS-3	11	100	3.75				SAME AS SS-2					29	A-6b (VISUAL)	
LONGITUDE = -83.170976	06.00	-	07.50	SS-4	17	100	3.5				GRAY AND BROWN, CLAY, SOME SILT, LITTLE SAND, TRACE GRAVEL					23	A-7-6 (VISUAL)	
B-058-0-23	01.50	-	03.00	SS-1	8	50	3.25	10	3	8	37	42	50	20	30	23	A-7-6 (18)	
STA. 223+63, 28' LT.	03.00	-	04.50	SS-2	20	33	4.5	7	9	13	40	31	31	18	13	17	A-6a (8)	60
LATITUDE = 39.978195	04.50	-	06.00	SS-3	14	28	4.5				SAME AS SS-2					19	A-6a (VISUAL)	
LONGITUDE = -83.169653	06.00	-	07.50	SS-4	22	28	4.5				BROWN, SANDY SILT, SOME CLAY, TRACE GRAVEL					14	A-4a (VISUAL)	
B-059-0-23	01.50	-	03.00	SS-1	9	83	4.5	1	3	9	48	39	35	20	15	19	A-6a (10)	20
STA. 227+04, 72' RT.	03.00	-	04.50	SS-2	13	100	3	7	4	12	33	44	49	21	28	23	A-7-6 (17)	
LATITUDE = 39.977865	04.50	-	06.00	SS-3	29	100	4.5	16	9	14	35	26	26	16	10	13	A-4a (5)	
LONGITUDE = -83.168459	06.00	-	07.50	SS-4	51	44	4.5				SAME AS SS-3					13	A-4a (VISUAL)	
B-060-0-23	00.00	-	01.50	SS-1	5	61	4.5				SAME AS SS-2					12	A-7-6 (VISUAL)	
STA. 231+53, 24' RT.	01.50	-	03.00	SS-2	8	28	4.5	5	4	8	44	39	42	21	21	21	A-7-6 (13)	20
LATITUDE = 39.977942	03.00	-	04.50	SS-3	11	100	4.5				SAME AS SS-2					13	A-7-6 (VISUAL)	
LONGITUDE = -83.166898	04.50	-	06.00	SS-4	12	100	3.75	12	4	10	36	38	42	21	21	22	A-7-6 (13)	
	06.00	-	07.50	SS-5	18	100	3.75				SAME AS SS-4					28	A-7-6 (VISUAL)	
B-061-0-23	01.50	-	03.00	SS-1	14	22		43	23	12	16	6	NP	NP	NP	5	A-1-b (0)	1453
STA. 235+54, 12' RT.	03.00	-	04.50	SS-2	9	50	4.25	9	3	7	33	48	55	22	33	22	A-7-6 (19)	
LATITUDE = 39.977881	04.50	-	06.00	SS-3	11	100	4.5				SAME AS SS-2					14	A-7-6 (VISUAL)	
LONGITUDE = -83.165420	06.00	-	07.50	SS-4	20	100	4.5				SAME AS SS-2					14	A-7-6 (VISUAL)	
B-062-0-23	01.50	-	03.00	SS-1	12	89	4	7	10	15	36	32	34	16	18	16	A-6b (10)	0
STA. 239+78, 75' LT.	03.00	-	04.50	SS-2	11	100	3	2	2	8	38	50	52	21	31	25	A-7-6 (18)	
LATITUDE = 39.978050	04.50	-	06.00	SS-3	9	67	2.25				SAME AS SS-2					24	A-7-6 (VISUAL)	
LONGITUDE = -83.163887	06.00	-	07.50	SS-4	17	100	2.25				SAME AS SS-2					25	A-7-6 (VISUAL)	
B-063-0-23	01.50	-	03.00	SS-1	11	61	4.25	4	6	10	38	42	40	19	21	18	A-6b (12)	0
STA. 243+74, 36' LT.	03.00	-	04.50	SS-2	13	67	4.5				SAME AS SS-1					25	A-6b (VISUAL)	
LATITUDE = 39.977855	04.50	-	06.00	SS-3	13	100	3.5	1	1	9	36	53	58	27	31	30	A-7-6 (20)	
LONGITUDE = -83.162487	06.00	-	07.50	SS-4	20	100	2.5				SAME AS SS-3					25	A-7-6 (VISUAL)	
B-064-0-23	00.00	-	01.50	SS-1	8	100	3.5	23	13	10	29	25	38	19	19	15	A-6b (7)	20
STA. 248+27, 22' LT.	01.50	-	03.00	SS-2	9	44	4.25	7	6	12	34	41	46	21	25	20	A-7-6 (15)	
LATITUDE = 39.977744	03.00	-	04.50	SS-3	20	100	4.5				BROWN AND GRAY, SILT AND CLAY, LITTLE SAND, TRACE GRAVEL					19	A-6a (VISUAL)	
LONGITUDE = -83.160857	04.50	-	06.00	SS-4	13	100	3				BROWN AND GRAY, CLAY, SOME SILT, TRACE TO LITTLE SAND, TRACE GRAVEL					23	A-7-6 (VISUAL)	
	06.00	-	07.50	SS-5	20	100	4.5				SAME AS SS-4					16	A-7-6 (VISUAL)	
B-065-0-23	01.50	-	03.00	SS-1	11	94	4.5	2	6	10	41	41	37	19	18	19	A-6b (11)	0
STA. 251+38, 74' RT.	03.00	-	04.50	SS-2	14	100	4.5	5	9	12	40	34	30	16	14	16	A-6a (9)	
LATITUDE = 39.977451	04.50	-	06.00	SS-3	14	100	3.25	DARK GRAY AND GREENISH GRAY, CLAY, SOME SILT, TRACE SAND, TRACE GRAVEL								27	A-7-6 (VISUAL)	
LONGITUDE = -83.159793	06.00	-	07.50	SS-4	18	100	3				SAME AS SS-3					31	A-7-6 (VISUAL)	
B-066-0-23	01.50	-	03.00	SS-1	30	67	4.5	7	10	14	37	32	28	17	11	12	A-6a (7)	0
STA. 256+09, 37' RT.	03.00	-	04.50	SS-2	20	100	4.5				SAME AS SS-1					16	A-6a (VISUAL)	
LATITUDE = 39.977496	04.50	-	06.00	SS-3	16	100	4.25	6	4	9	46	35	37	19	18	18	A-6b (11)	
LONGITUDE = -83.158102	06.00	-	07.50	SS-4	17	100	4.25				SAME AS SS-3					28	A-6b (VISUAL)	
B-067-0-23	01.50	-	03.00	SS-1	3	22		67	16	6	9	2	NP	NP	NP	4	A-1-a (0)	120
STA. 259+20, 29' RT.	03.00	-	04.50	SS-2	17	39	4.5	7	7	12	39	35	30	18	12	15	A-6a (9)	
LATITUDE = 39.977444	04.50	-	06.00	SS-3	28	100	4.25				SAME AS SS-2					25	A-6a (VISUAL)	
LONGITUDE = -83.156990	06.00	-	07.50	SS-4	38	100	4.25				SAME AS SS-2					14	A-6a (VISUAL)	
B-068-0-23	01.50	-	03.00	SS-1	13	67	4.5	13	8	13	35	31	27	15	12	13	A-6a (7)	140
STA. 263+40, 100' LT.	03.00	-	04.50	SS-2	20	100	4.5	9	9	13	38	31	26	15	11	13	A-6a (7)	
LATITUDE = 39.977725	04.50	-	06.00	SS-3	17	100	4.5	6	9	13	39	33	29	17	12	16	A-6a (8)	
LONGITUDE = -83.155521	06.00	-	07.50	SS-4	30	100	4.5				SAME AS SS-4					14	A-6a (VISUAL)	
B-069-0-23	01.50	-	03.00	SS-1	13	56	4.5	3	3	7	46	41	39	20	19	20	A-6b (12)	0
STA. 267+61, 35' LT.	03.00	-	04.50	SS-2	11	100	3.75	0	1	4	41	54	60	22	38	26	A-7-6 (20)	
LATITUDE = 39.977449	04.50	-	06.00	SS-3	9	100	4				SAME AS SS-2					17	A-7-6 (VISUAL)	
LONGITUDE = -83.153985	06.00	-	07.50	SS-4	16	100	4.5				BROWN, SANDY SILT, SOME CLAY, LITTLE GRAVEL					13	A-4a (VISUAL)	
B-070-0-23	00.00	-	01.50	SS-1	12	28	4.25	19	13	12	30	26	30	17	13	12	A-6a (5)	173
STA. 271+19, 14' LT.	01.50	-	03.00	SS-2	9	39	4.25	1	3	8	38	50	50	21	29	21	A-7-6 (18)	
LATITUDE = 39.977355	03.00	-	04.50	SS-3	12	72	3.5	1	2	7	36	54	52	20	32	23	A-7-6 (18)	
LONGITUDE = -83.152717	04.50	-	06.00	SS-4	11	100	4.5				SAME AS SS-3					16	A-7-6 (VISUAL)	
	06.00	-	07.50	SS-5	17	100	4.25				SAME AS SS-3					16	A-7-6 (VISUAL)	
B-071-0-23	01.50	-	03.00	SS-1	37	67		13	31	21	26	9	NP	NP	NP	18	A-3a (0)	1507
STA. 274+90, 75' RT.	03.00	-	04.50	SS-2	20	100	4.5	4	8	13	40	35	28	17	11	15	A-6a (8)	
LATITUDE = 39.977053	04.50	-	06.00	SS-3	14	100	4.5				SAME AS SS-2					15	A-6a (VISUAL)	
LONGITUDE = -83.151406	06.00	-	07.50	SS-4	24	100	4.5				SAME AS SS-2					15	A-6a (VISUAL)	

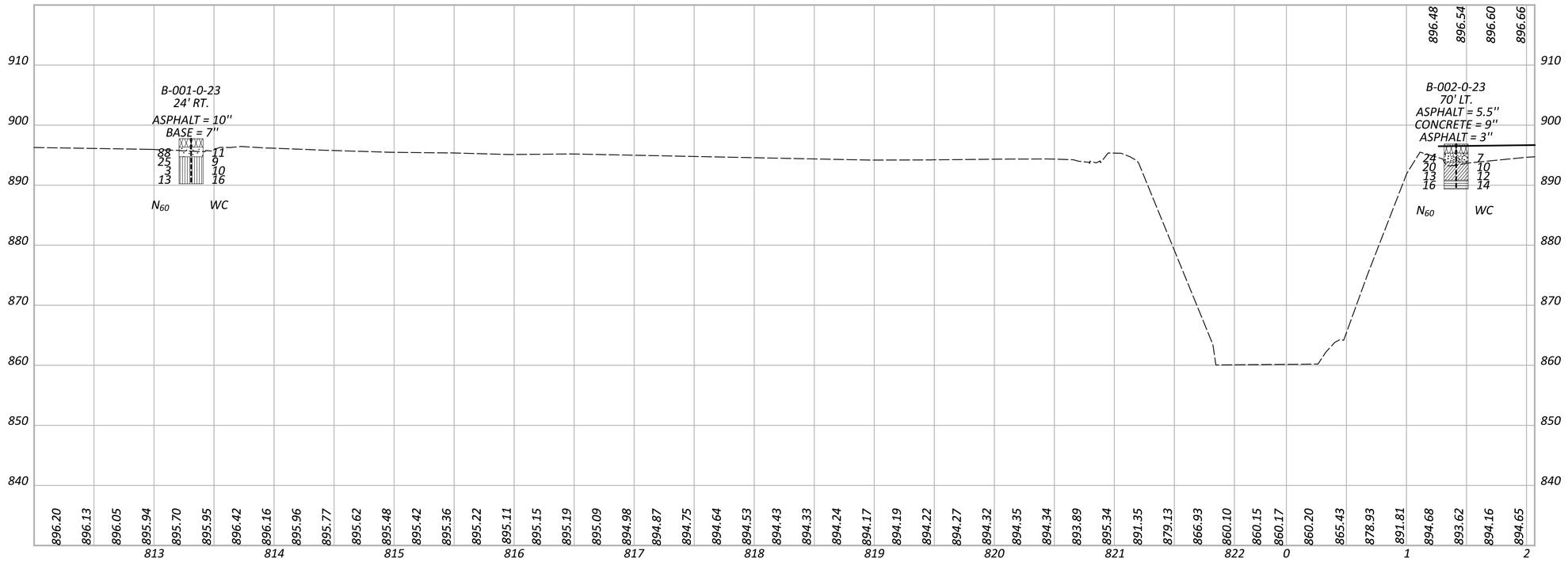
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:26:59 PM USER: dtarawneh
P:\OHDOT_v3\WorkSets\116949-FRA\400-Engineering\Geotechnical\Sheets\116949-FRA_ID004.dgn

SUMMARY OF SOIL TEST DATA
RAMP A

EXPLORATION NO., STATION & OFFSET	FROM		TO	SAMPLE ID	N60	% REC	HP tsf	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO4
B-068-0-23	01.50	-	03.00	SS-1	13	67	4.5	13	8	13	35	31	27	15	12	13	A-6a (7)	140
STA. 263+40, 4' LT.	03.00	-	04.50	SS-2	20	100	4.5	9	9	13	38	31	26	15	11	13	A-6a (7)	
LATITUDE = 39.977725	04.50	-	06.00	SS-3	17	100	4.5	6	9	13	39	33	29	17	12	16	A-6a (8)	
LONGITUDE = -83.155521	06.00	-	07.50	SS-4	30	100	4.5				SAME AS SS-4					14	A-6a (VISUAL)	
B-072-0-23	01.50	-	03.00	SS-1	13	39	4.5	18	18	14	28	22	29	17	12	13	A-6a (4)	160
STA. 275+46, 2' LT.	03.00	-	04.50	SS-2	11	100	3	3	5	10	36	46	44	18	26	21	A-7-6 (15)	
LATITUDE = 39.979162	04.50	-	06.00	SS-3	7	61	2.75				SAME AS SS-2					21	A-7-6 (VISUAL)	
LONGITUDE = -83.151781	06.00	-	07.50	SS-4	18	100	2.75				SAME AS SS-2					14	A-7-6 (VISUAL)	
B-073-0-23	01.50	-	03.00	SS-1	4	22		69	15	6	9	1	NP	NP	NP	3	A-1-a (0)	1933
STA. 270+42, 1' LT.	03.00	-	04.50	SS-2	11	72	3.25	4	1	3	37	55	61	25	36	27	A-7-6 (20)	
LATITUDE = 39.978382	04.50	-	06.00	SS-3	12	100	2.25	3	2	3	39	53	58	21	37	28	A-7-6 (20)	
LONGITUDE = -83.153222	06.00	-	07.50	SS-4	16	100	2.5				SAME AS SS-3					24	A-7-6 (VISUAL)	

GEOTECHNICAL PROFILE - ROADWAY
SUMMARY OF SOIL TEST DATA





HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 812+00 TO STA. 2+07 IR 70

FRA-70-00.00

MODEL: 116949_IP001 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 11:39:25 AM USER: dtarawneh
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DESIGN AGENCY
HEAS Highland Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	6
TOTAL	29
SHEET	P.0
TOTAL	0

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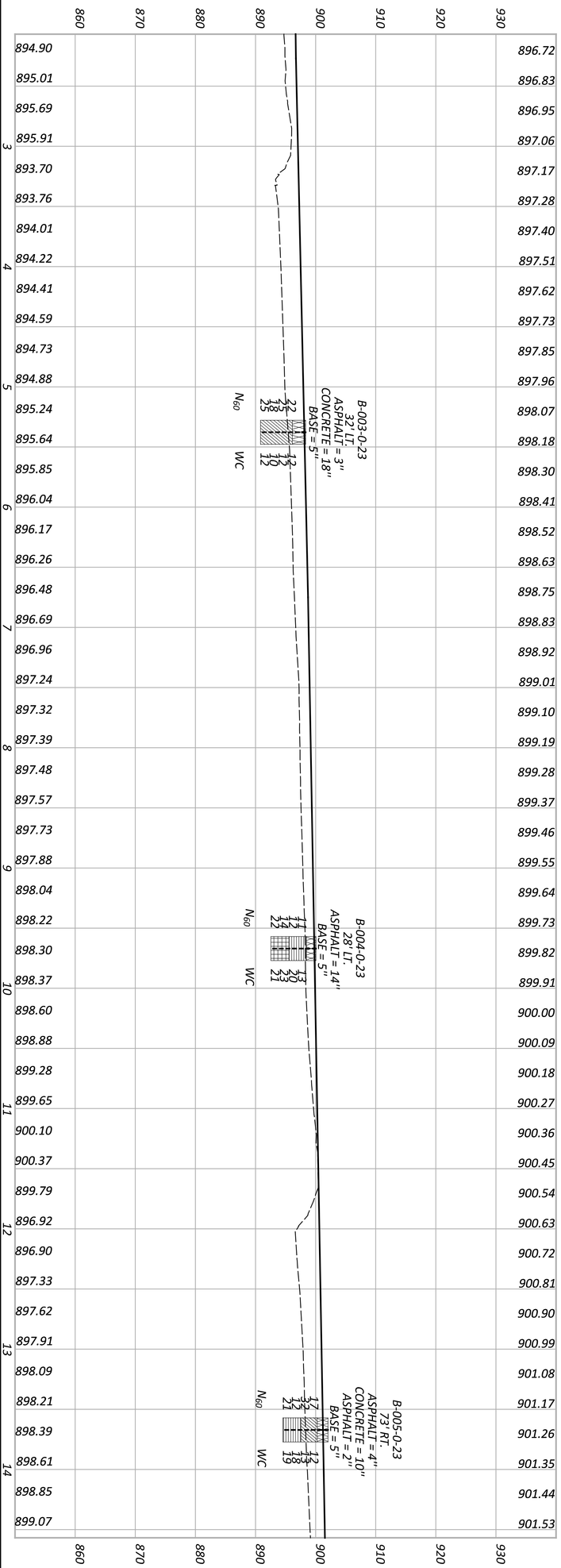
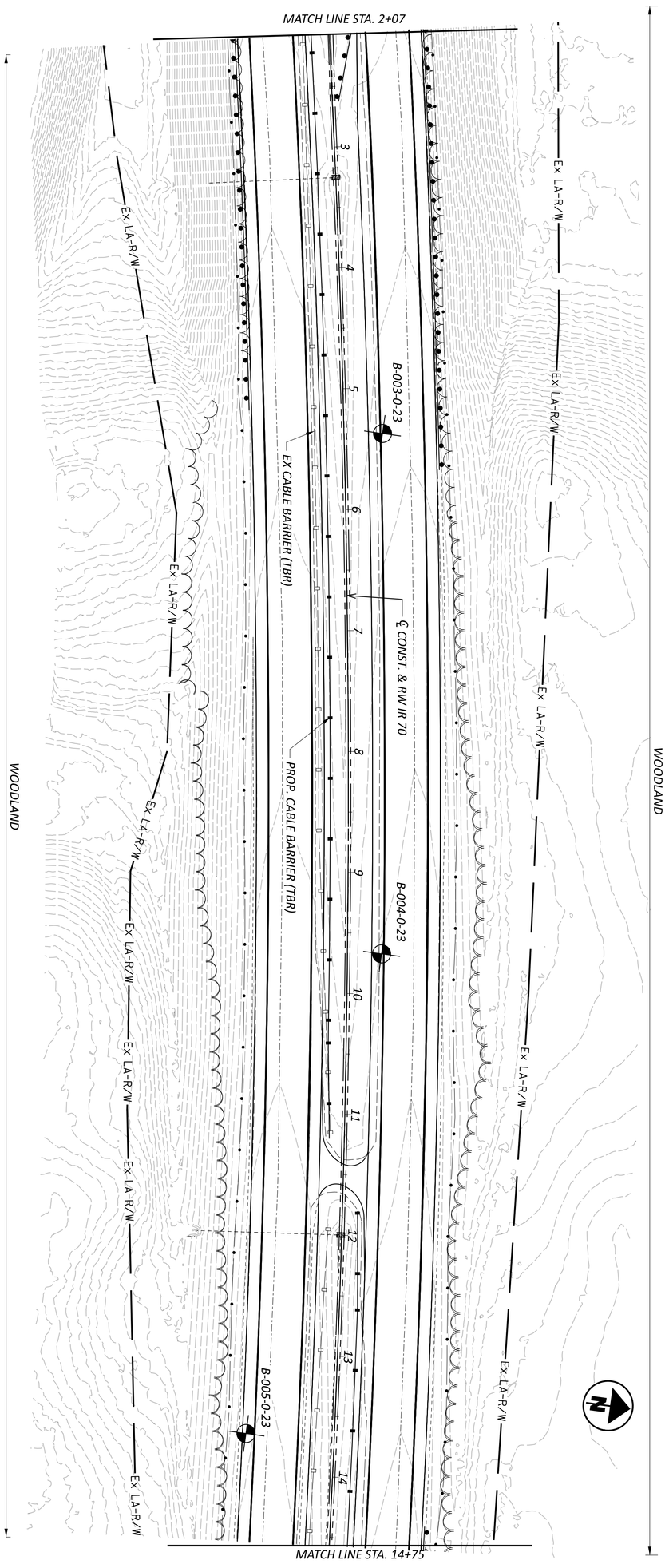


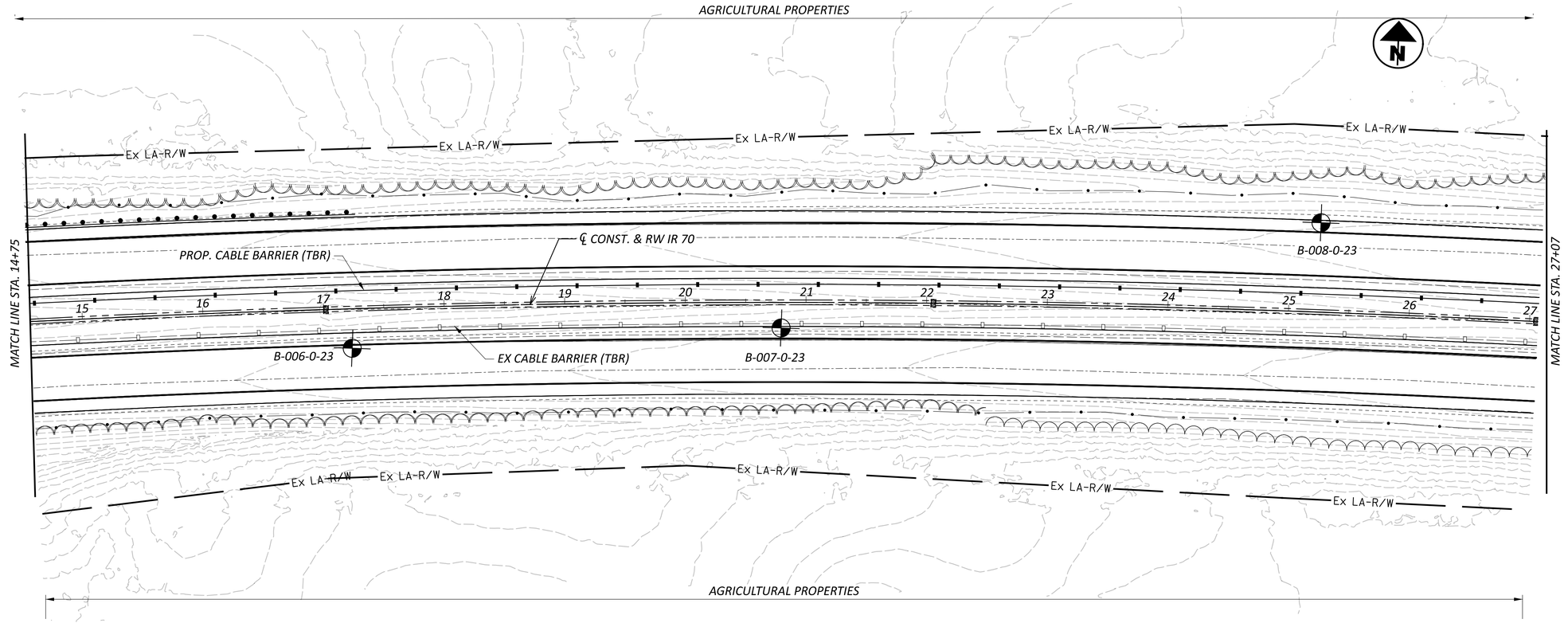


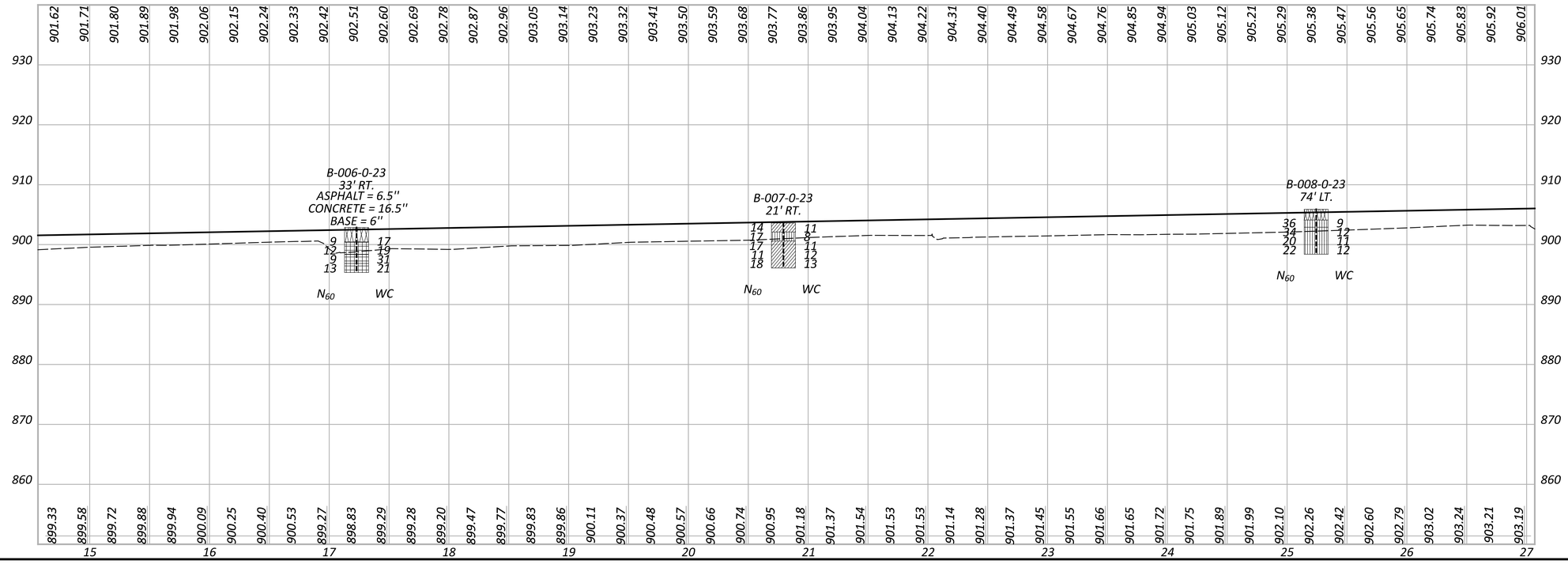
DESIGNER	DESIGN AGENCY
DT	NEAS Professional Engineering & Architectural Services Inc.

REVIEWER	PROJECT ID	SUBSET	SHEET
CH 05/28/24	116949	7 TOTAL 29	P.0 TOTAL 0

GEOTECHNICAL PROFILE - ROADWAY
STA. 2+07 TO STA. 14+57 IR 70

HORIZONTAL SCALE IN FEET
0 50
25 100





FRA-70-00.00

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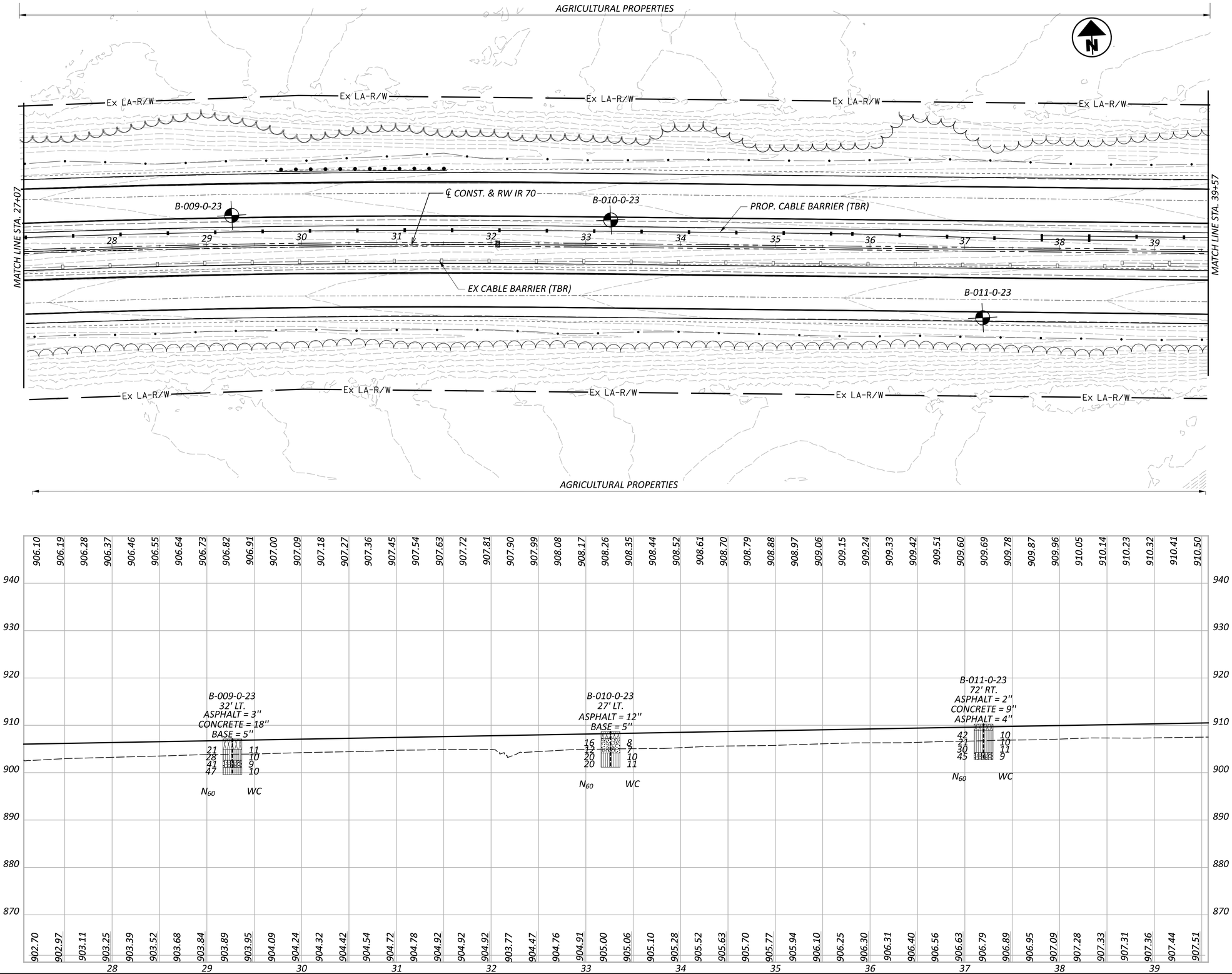
HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 14+57 TO STA. 27+07 IR 70

DESIGN AGENCY
NEAS National Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET / TOTAL	8 / 29
SHEET / TOTAL	P.0 / 0



HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 27+07 TO STA. 39+57 IR 70

DESIGN AGENCY
EAS
National Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	9
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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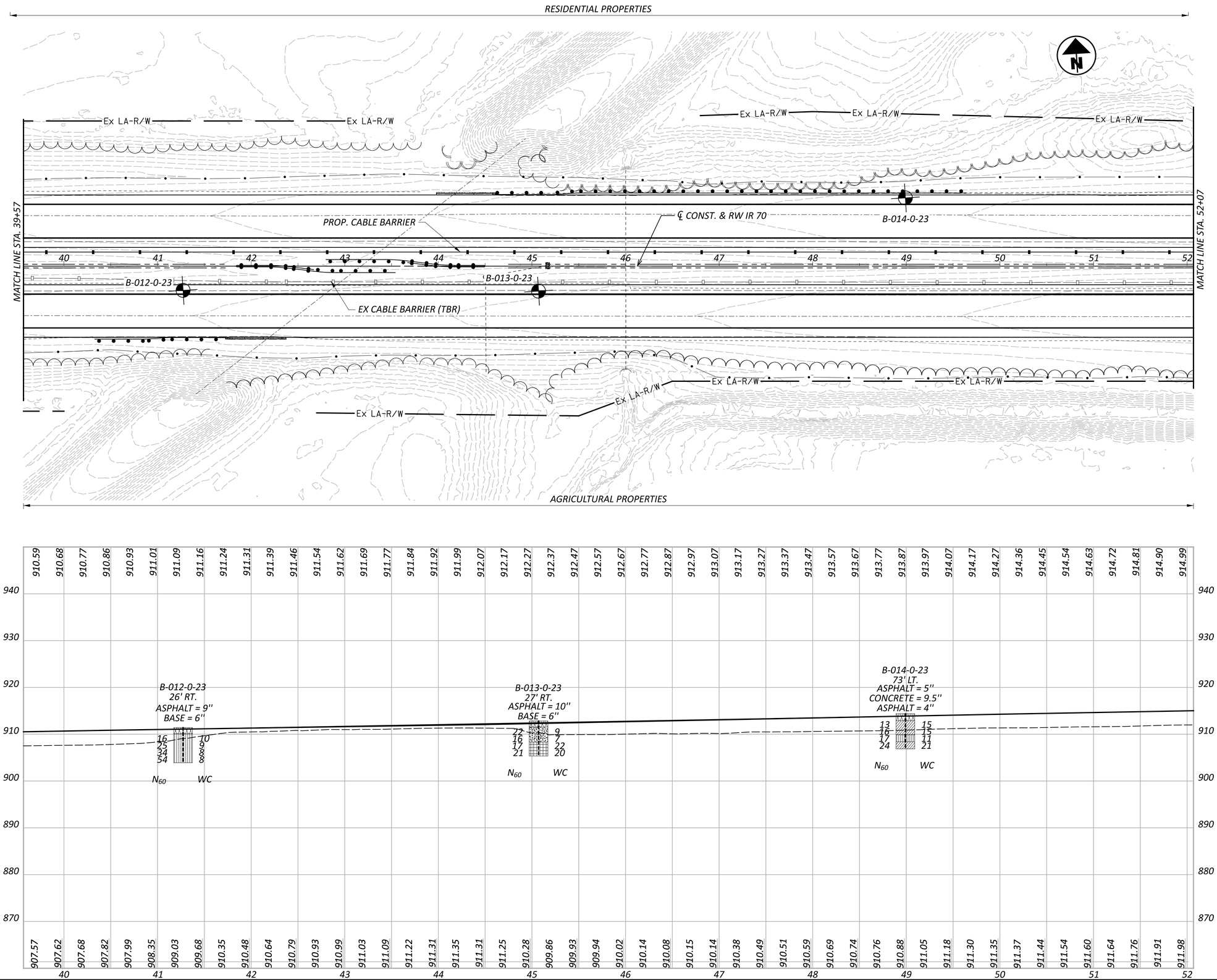

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 39+57 TO STA. 52+07 IR 70

DESIGN AGENCY
KEAS National Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	10
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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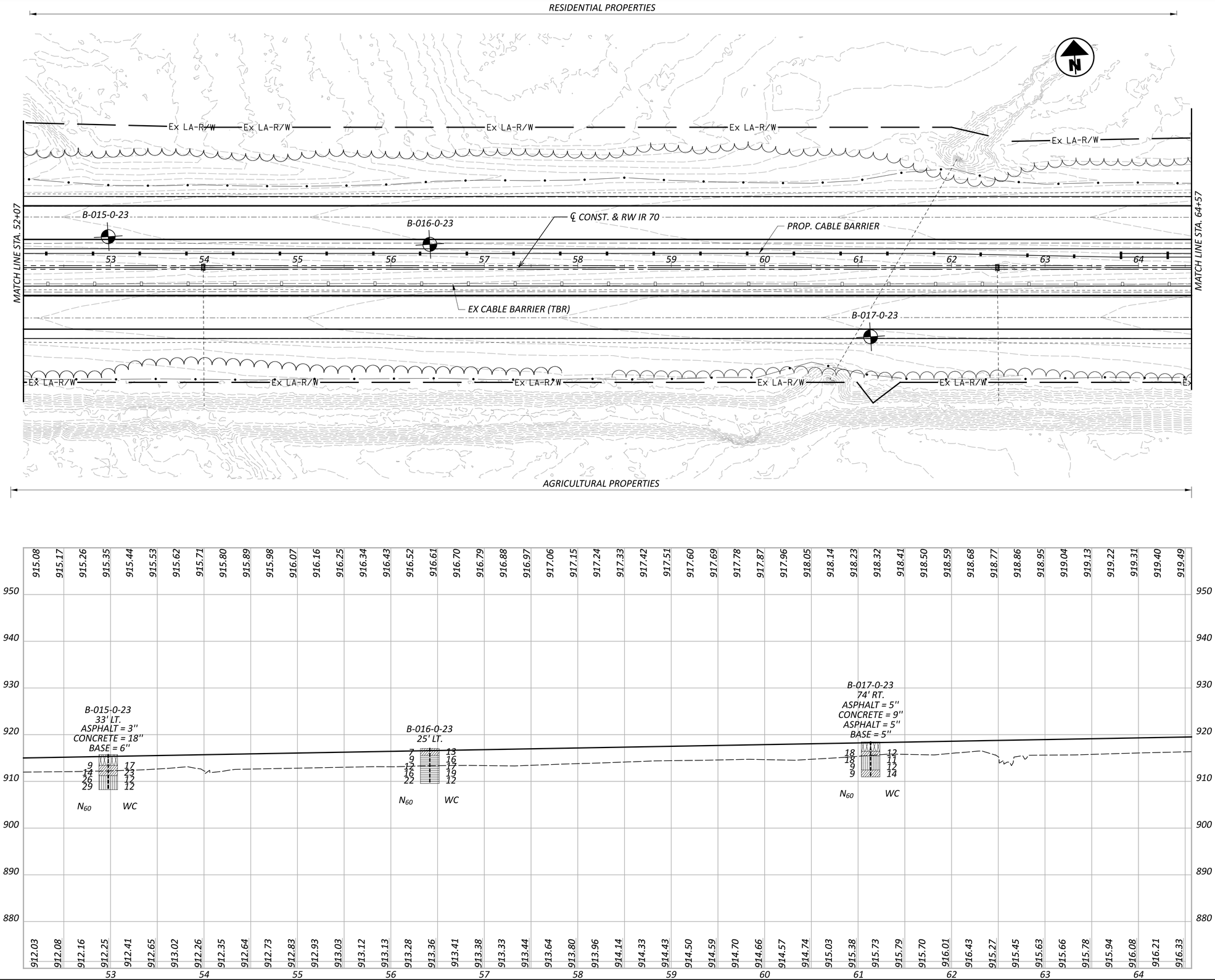

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 52+07 TO STA. 64+57 IR 70

DESIGN AGENCY
KEAS
National Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	11
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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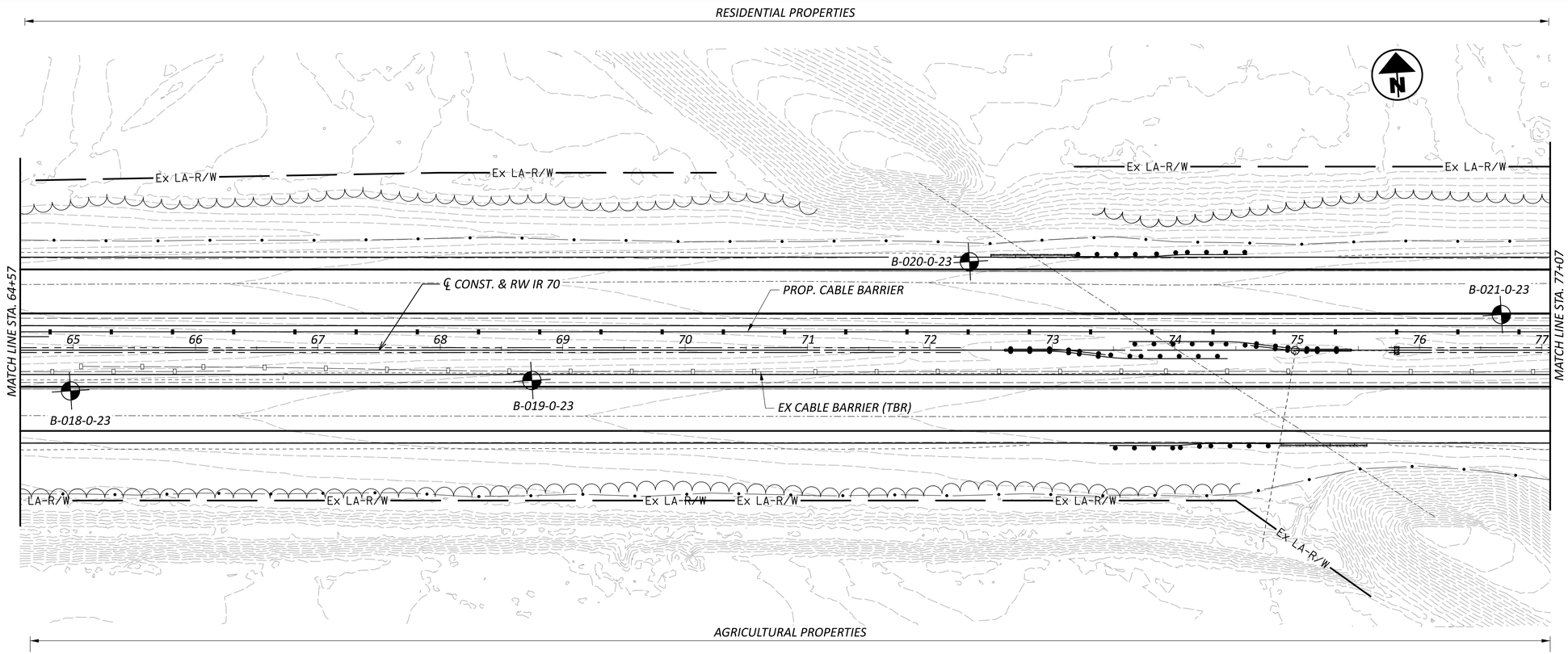

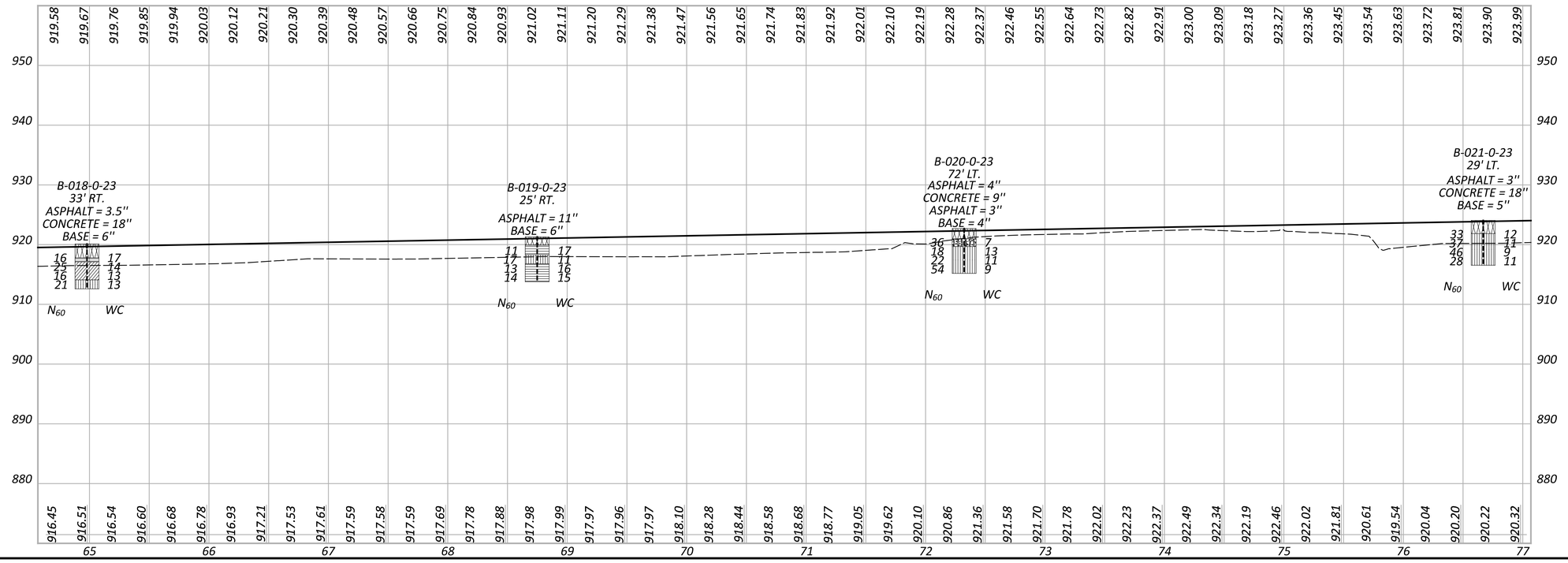

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 64+57 TO STA. 77+07 IR 70

DESIGN AGENCY
DESIGNER DT
REVIEWER CH 05/28/24
PROJECT ID 116949
SUBSET 12 TOTAL 29
SHEET P.0 TOTAL 0

FRA-70-00.00

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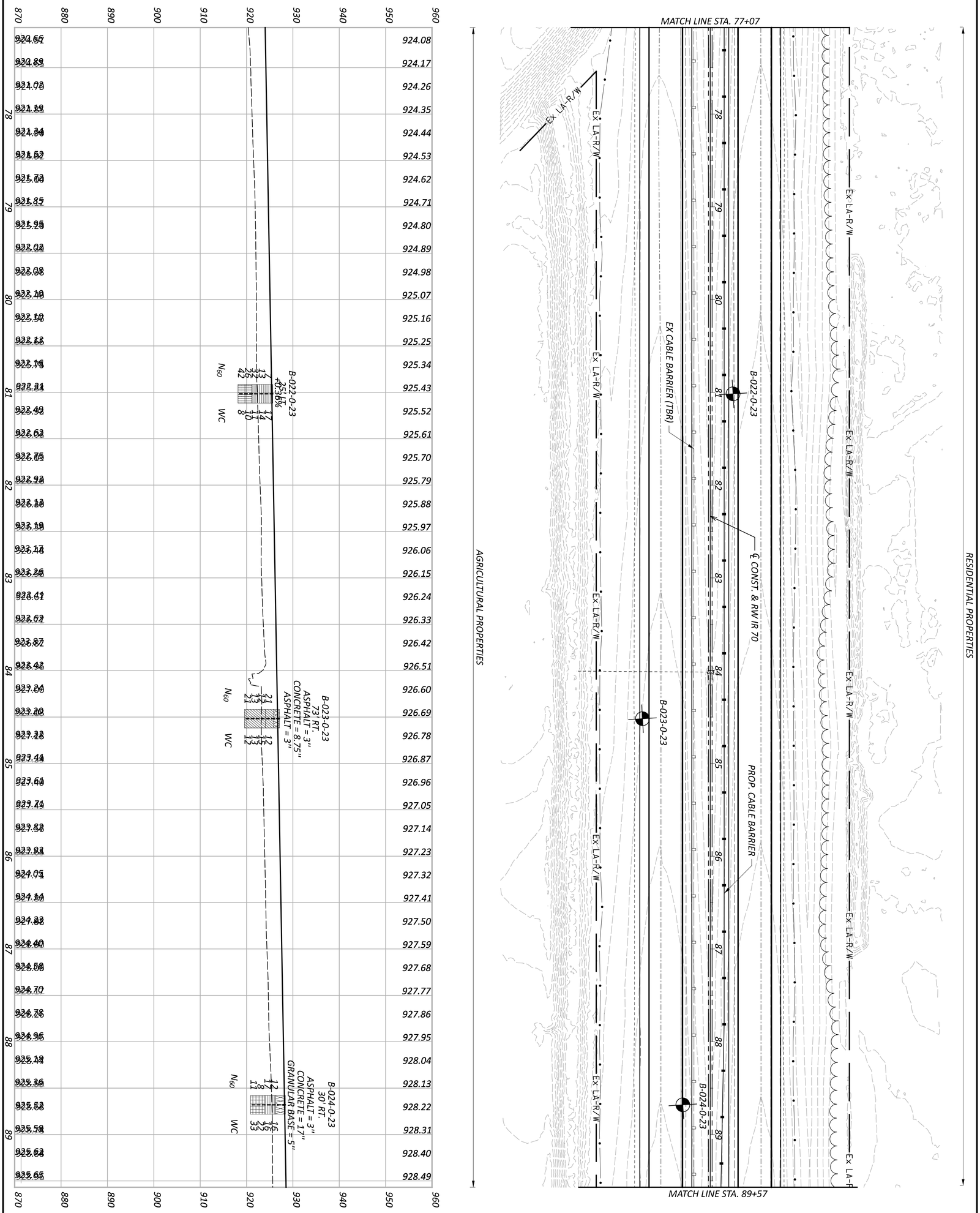
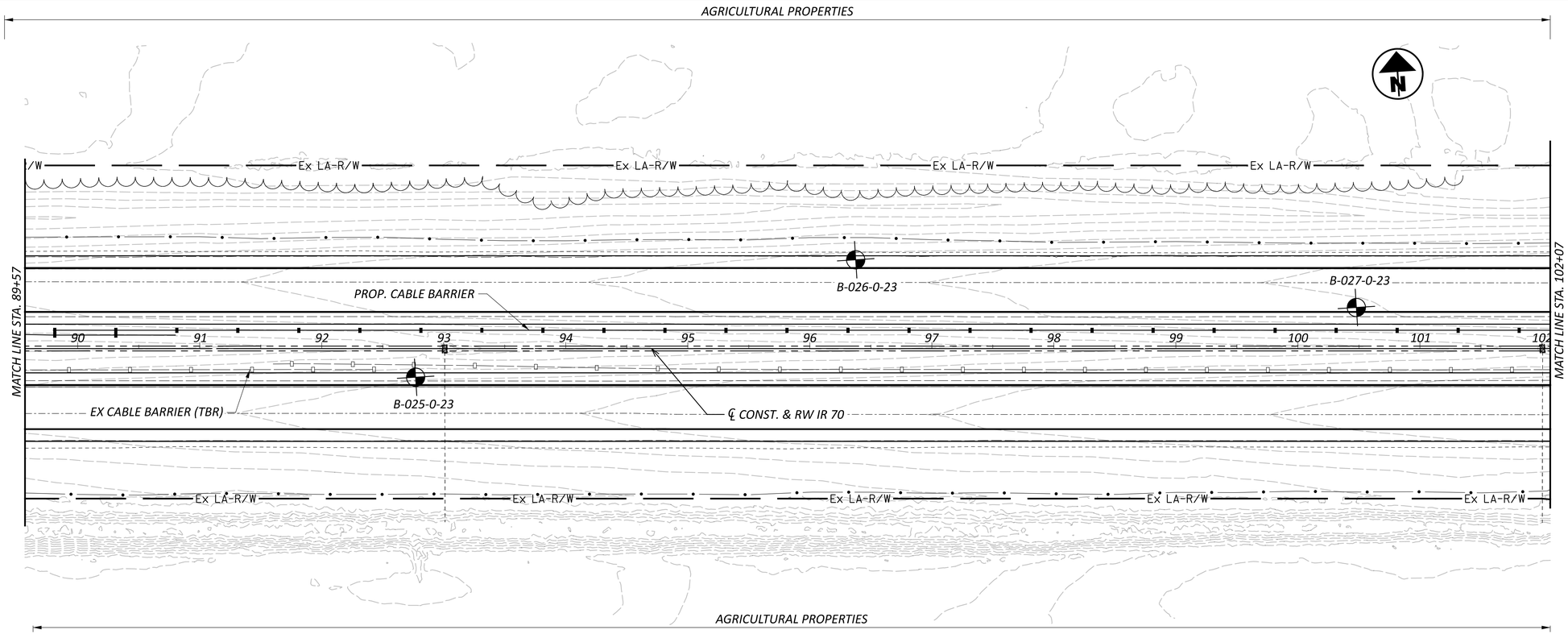


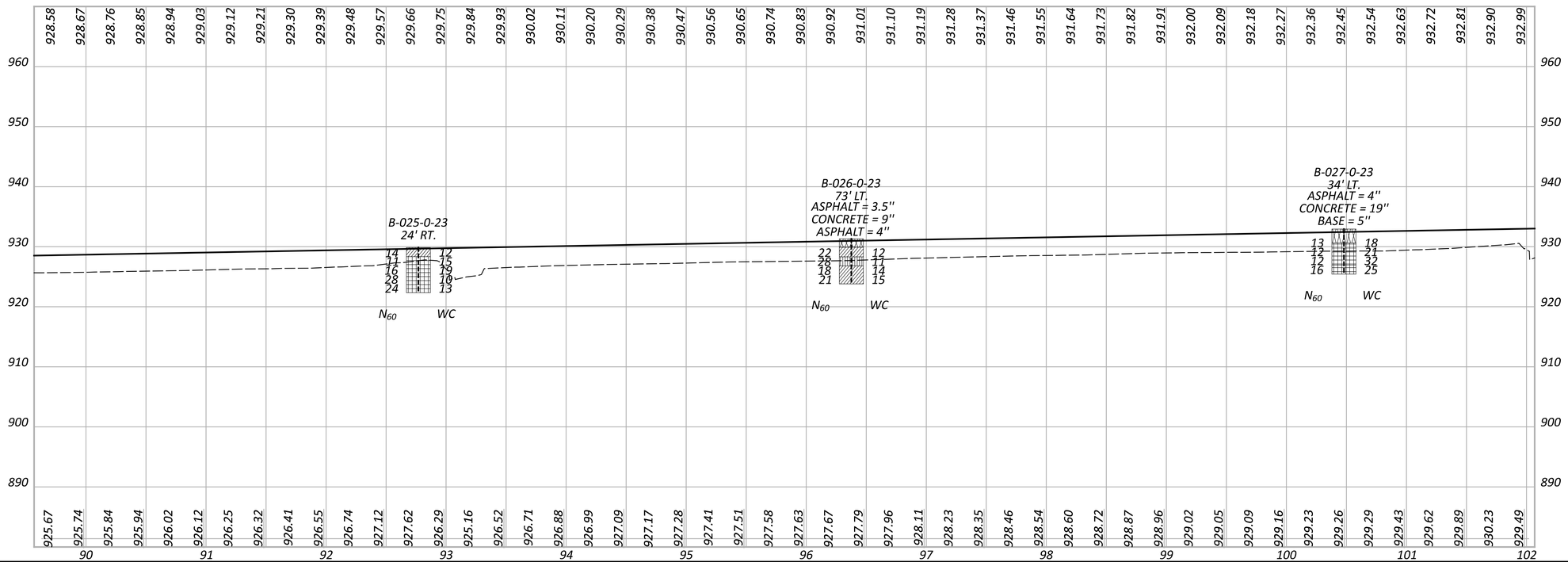
GEOTECHNICAL PROFILE - ROADWAY
STA. 77+07 TO STA. 89+57 IR 70

HORIZONTAL SCALE IN FEET
0 50
25 100

DESIGNER	DESIGN AGENCY
DT	NEAS Transportation Engineering & Architectural Services Inc.

REVIEWER	PROJECT ID	SUBSET	SHEET
CH 05/28/24	116949	13 TOTAL 29	P.0 TOTAL 0





HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 89+57 TO STA. 102+07 IR 70

DESIGN AGENCY
EAS Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	14
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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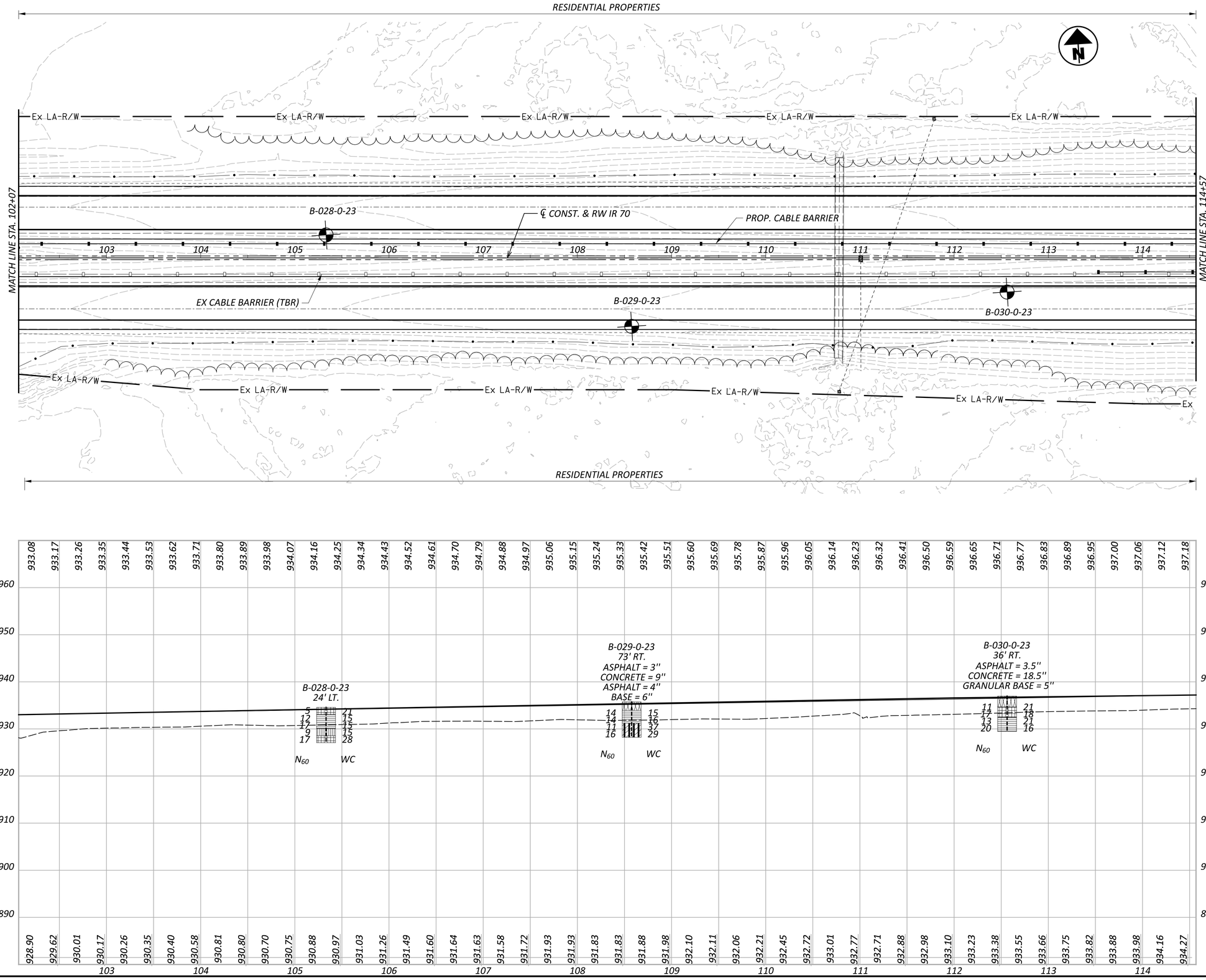

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 102+07 TO STA. 114+57 IR 70

DESIGN AGENCY
KEAS Kentucky Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	15
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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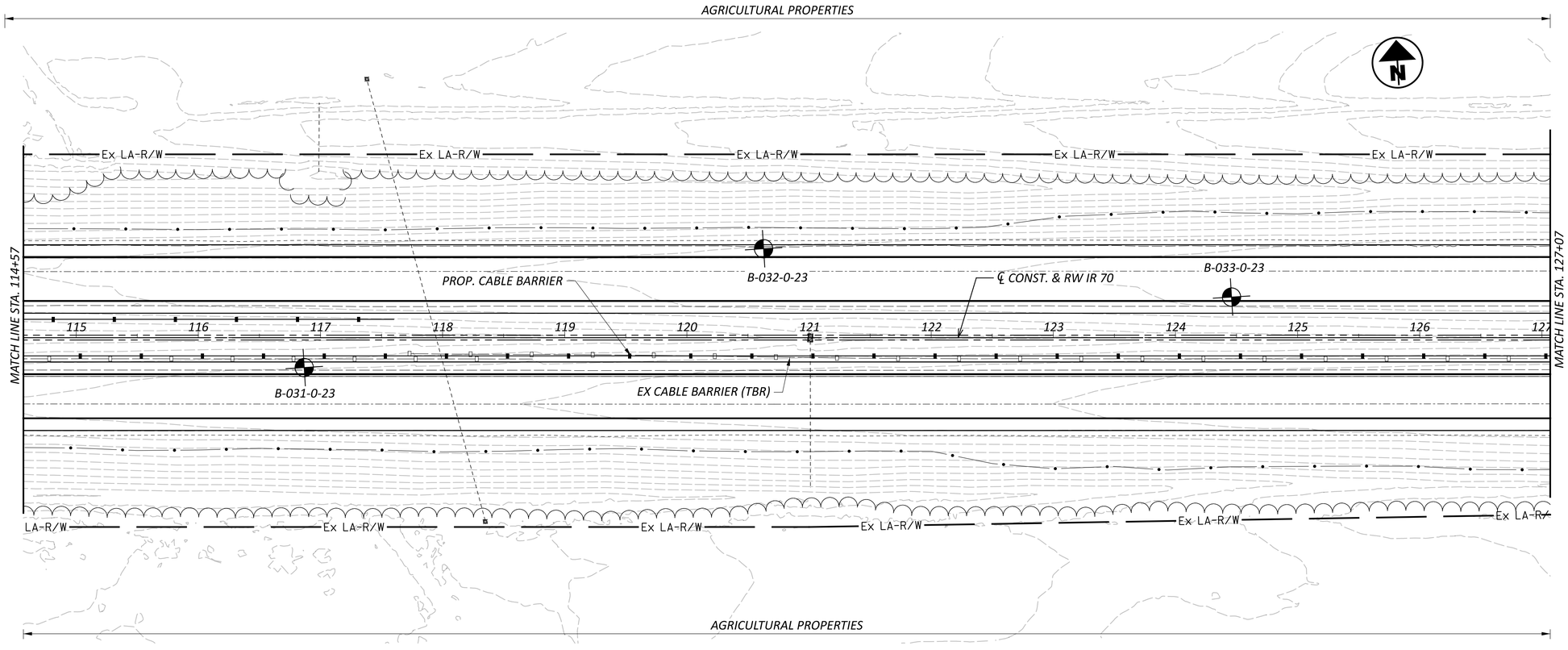

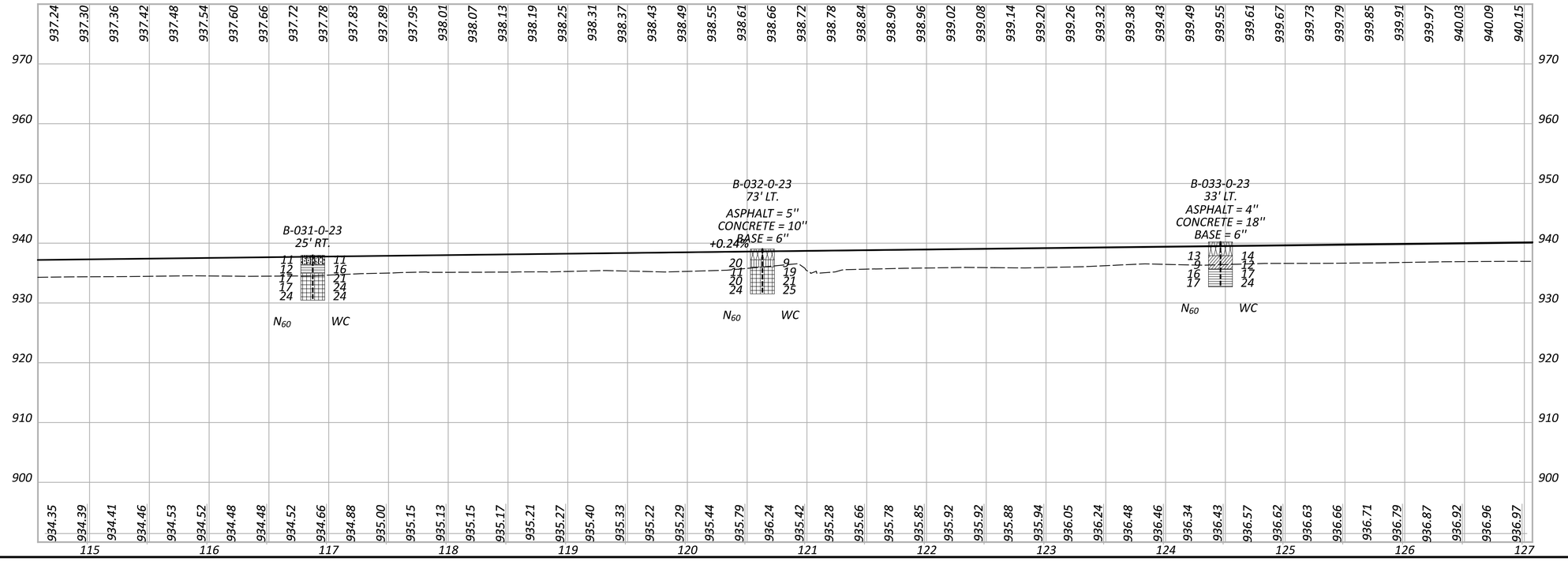

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 114+57 TO STA. 127+07 IR 70

DESIGN AGENCY
HEAS Highway Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	16
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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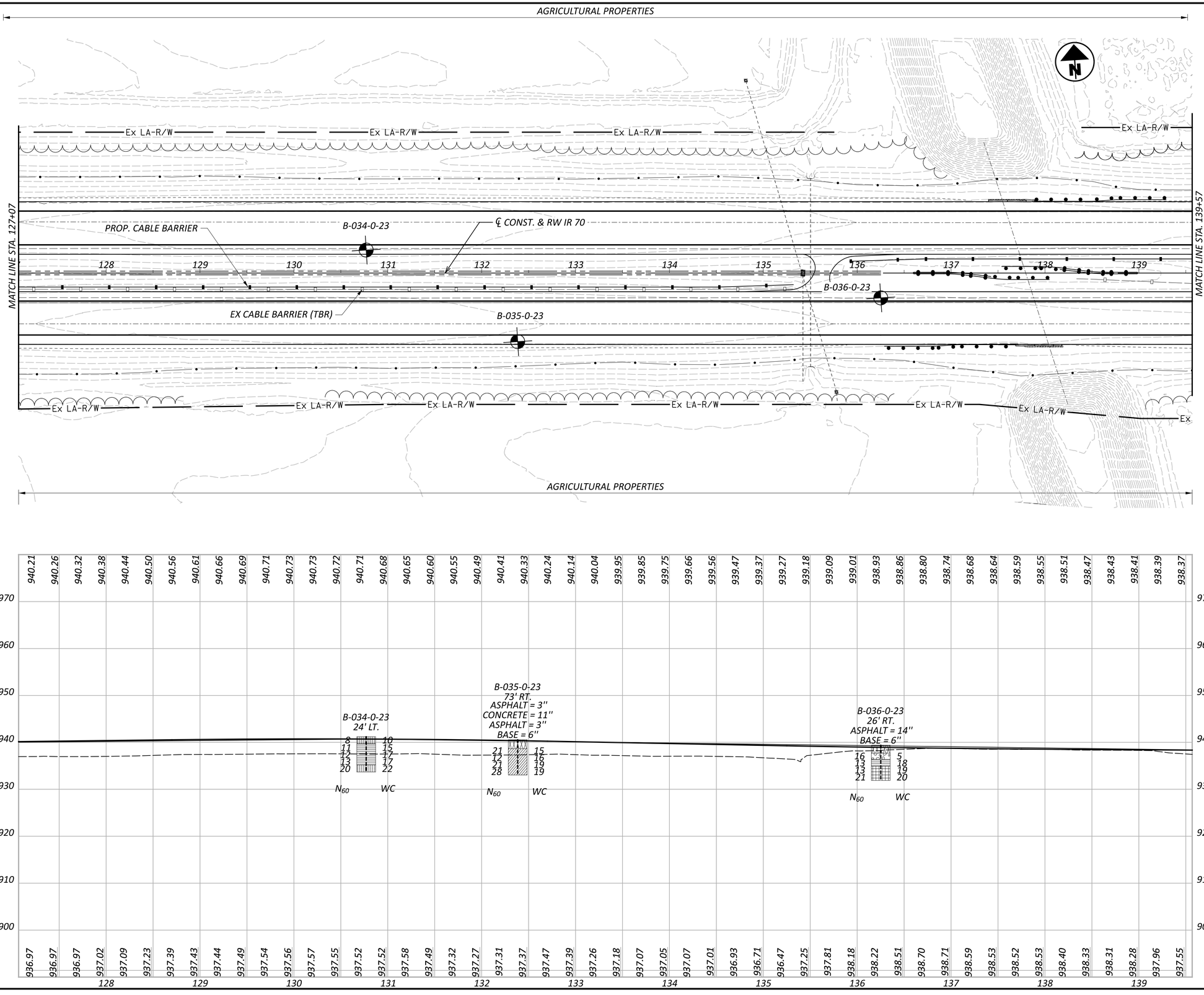

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 127+07 TO STA. 139+57 IR 70

DESIGN AGENCY
HEAS Highland Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	17
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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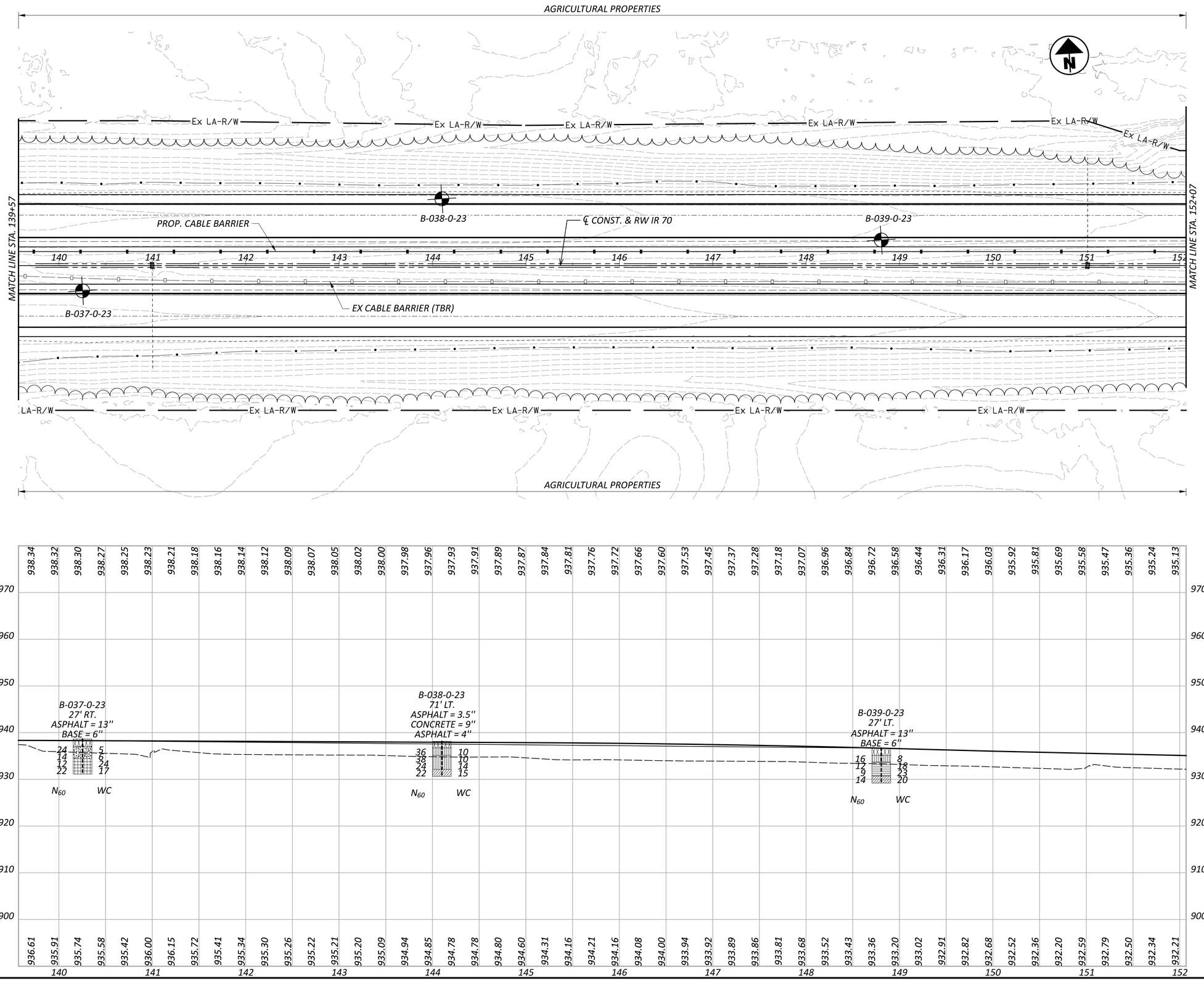

HORIZONTAL SCALE IN FEET
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GEOTECHNICAL PROFILE - ROADWAY
STA. 139+57 TO STA. 152+07 IR 70

DESIGN AGENCY
KEAS National Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	18
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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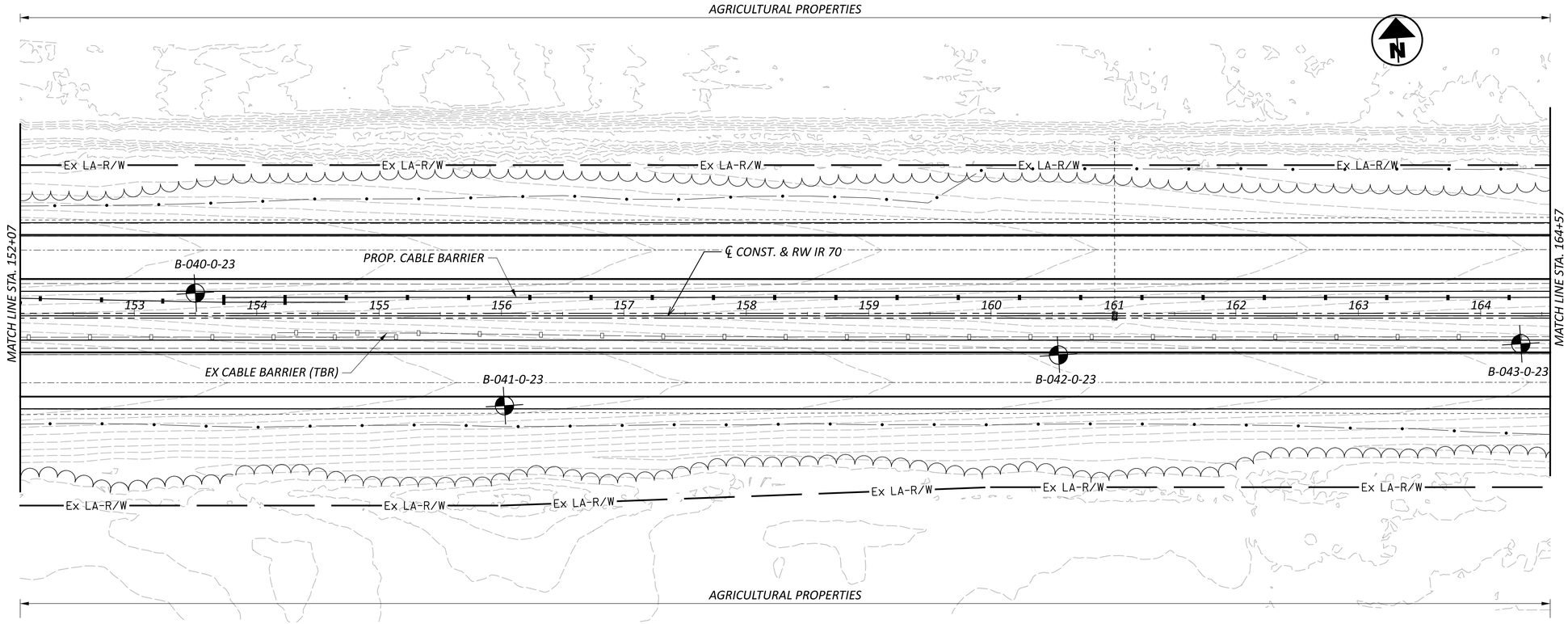

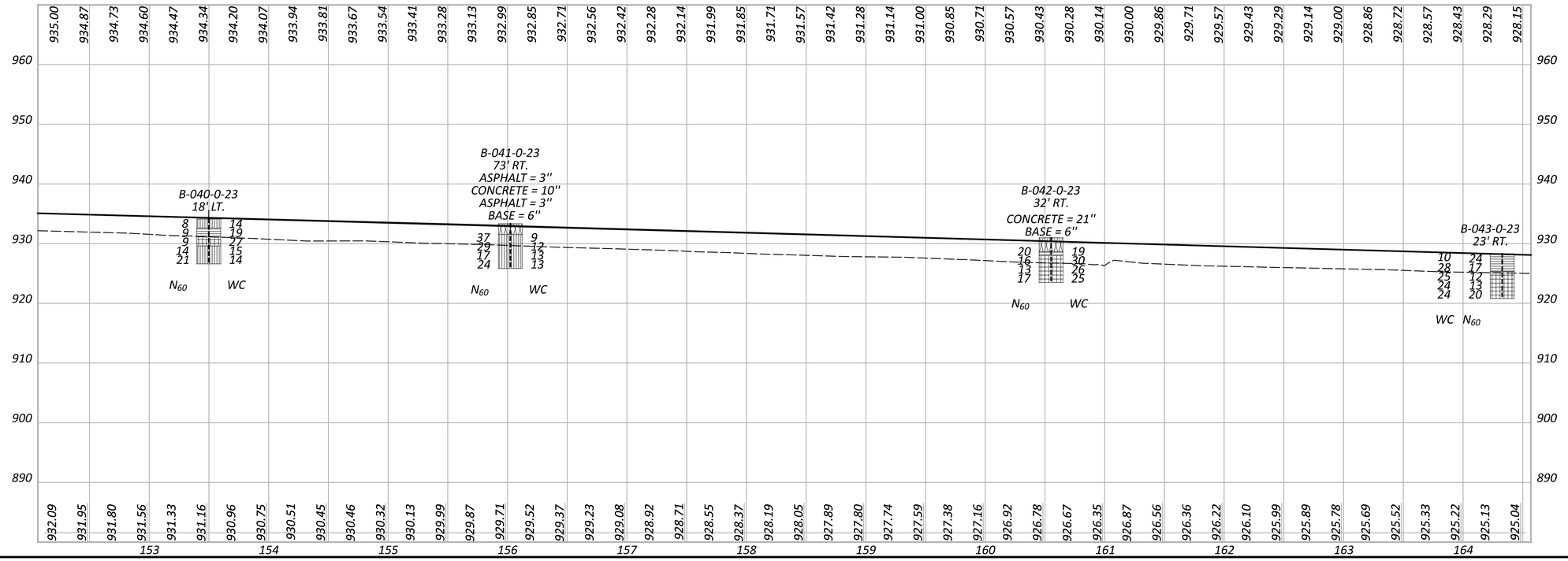

HORIZONTAL SCALE IN FEET
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GEOTECHNICAL PROFILE - ROADWAY
STA. 152+07 TO STA. 164+57 IR 70

DESIGN AGENCY
TEAS Transportation Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	19
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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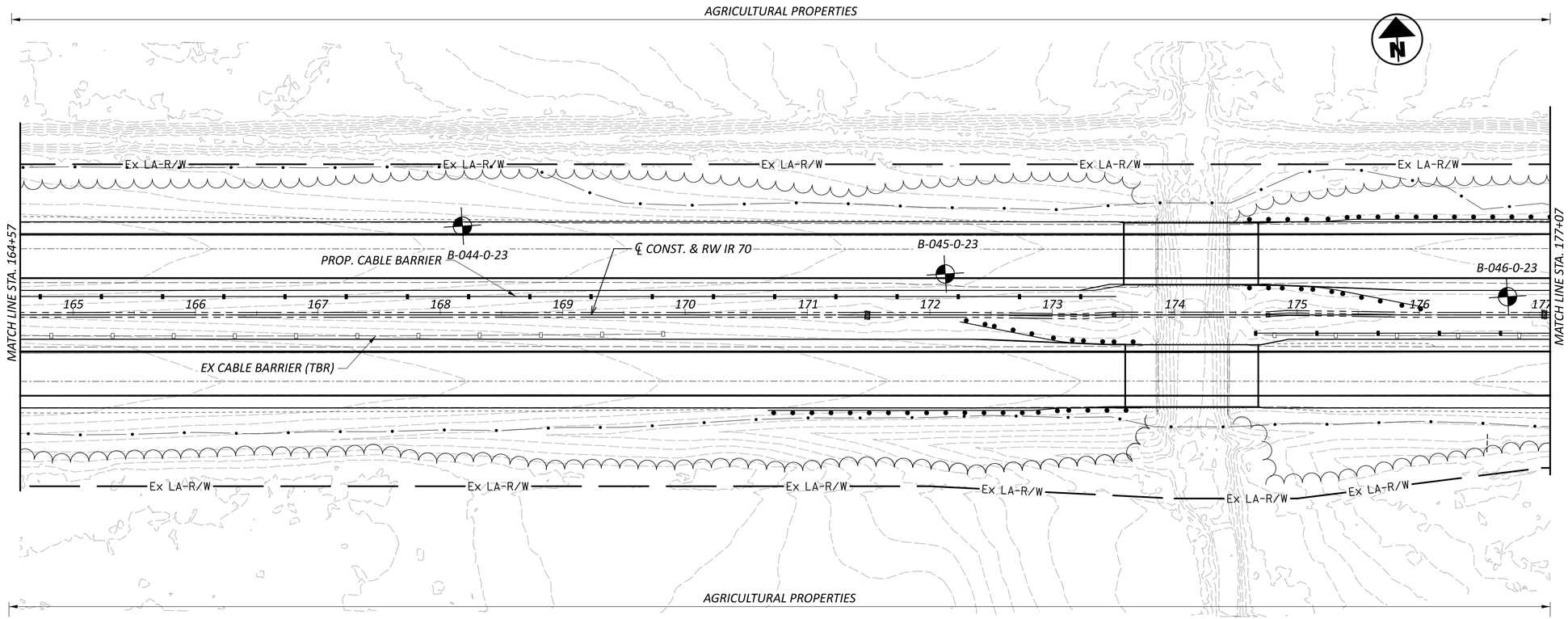

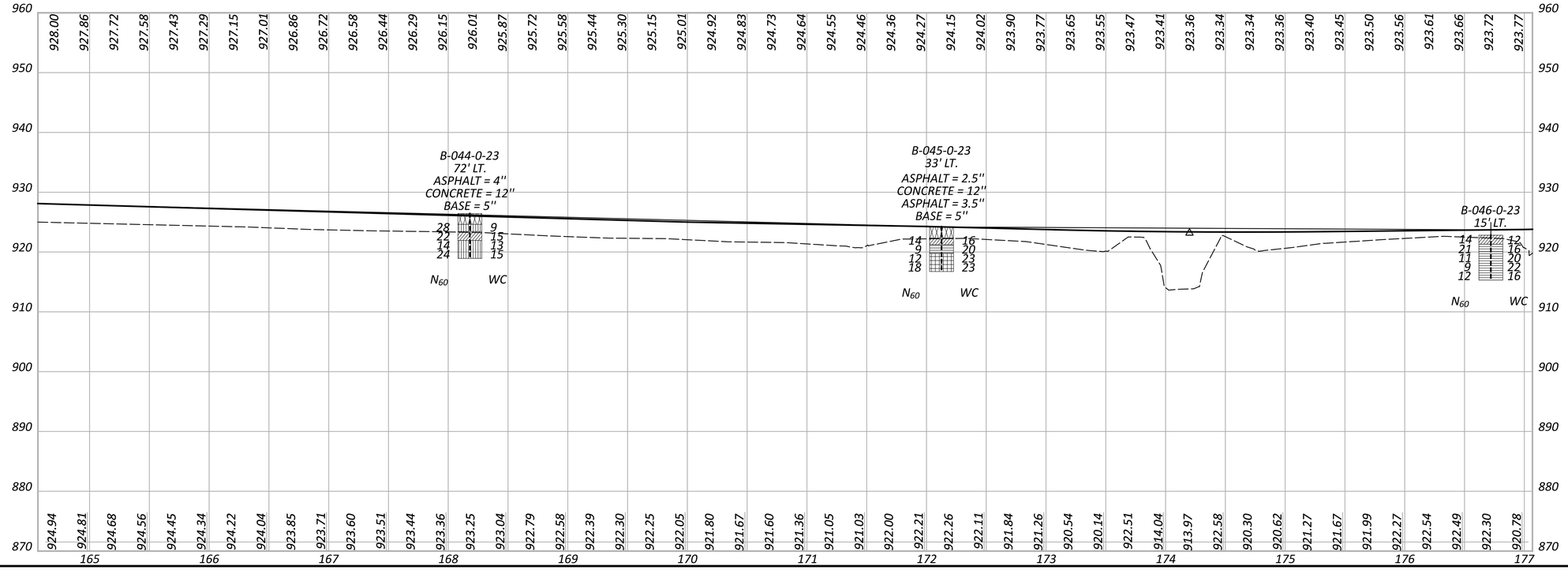

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 164+57 TO STA. 177+07 IR 70

DESIGN AGENCY
EAS Engineering & Architectural Services, Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	20
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

MODEL: 116949_IP015 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:07:25 PM USER: dtarawneh
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AGRICULTURAL & RESIDENTIAL PROPERTIES

Ex LA-R/W

MATCH LINE STA. 177+07

MATCH LINE STA. 189+57

PROP. CABLE BARRIER

℄ CONST. & RW IR 70

178 179 180 181 182 183 184 185 186 187 188 189

EX CABLE BARRIER (TBR)

B-047-0-23

B-048-0-23

B-049-0-23

AGRICULTURAL & RESIDENTIAL PROPERTIES

923.86 923.95 924.04 924.13 924.21 924.30 924.39 924.48 924.57 924.66 924.75 924.84 924.93 925.01 925.10 925.19 925.28 925.37 925.46 925.55 925.64 925.73 925.81 925.90 925.99 926.08 926.17 926.26 926.35 926.44 926.52 926.61 926.70 926.79 926.88 926.97 927.06 927.15 927.24 927.32 927.41 927.50 927.59 927.68 927.77 927.86 927.95 928.04 928.12 928.21

950 940 930 920 910 900 890 880

B-047-0-23
73' RT.
ASPHALT = 12"
BASE = 6"

9 8 13 24 — 18 24 17 14

N_{60} WC

B-048-0-23
28' RT.
ASPHALT = 13"
BASE = 5"

4 4 9 16 — 23 22 25 25

N_{60} WC

B-049-0-23
24' RT.

7 5 4 11 — 14 29 26 25 24

N_{60} WC

920.85 921.18 921.22 921.32 921.45 921.52 921.56 921.59 921.72 921.94 922.19 922.39 922.56 922.63 922.65 922.66 922.66 922.78 922.94 923.09 923.23 923.32 923.38 923.46 923.54 922.99 923.40 923.89 924.19 924.44 924.66 924.83 924.97 925.06 925.13 925.22 925.32 925.37 925.40 925.57 925.75 925.90 926.02 926.12 926.22 926.22 926.17 925.64 925.17 925.37

178 179 180 181 182 183 184 185 186 187 188 189

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 177+07 TO STA. 189+57 IR 70

DESIGN AGENCY
TEAS Transportation Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	21
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

MODEL: 116949_IP016 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:08:53 PM USER: dtarawneh
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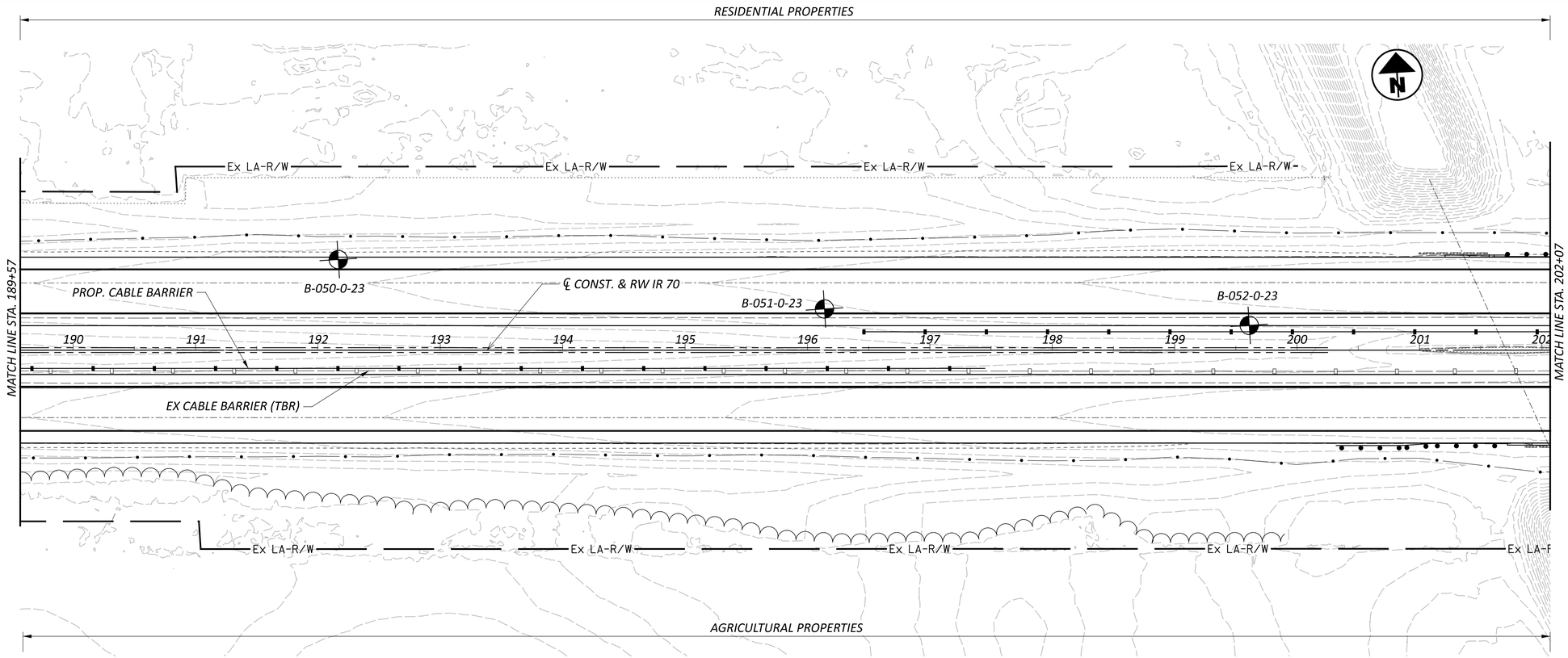

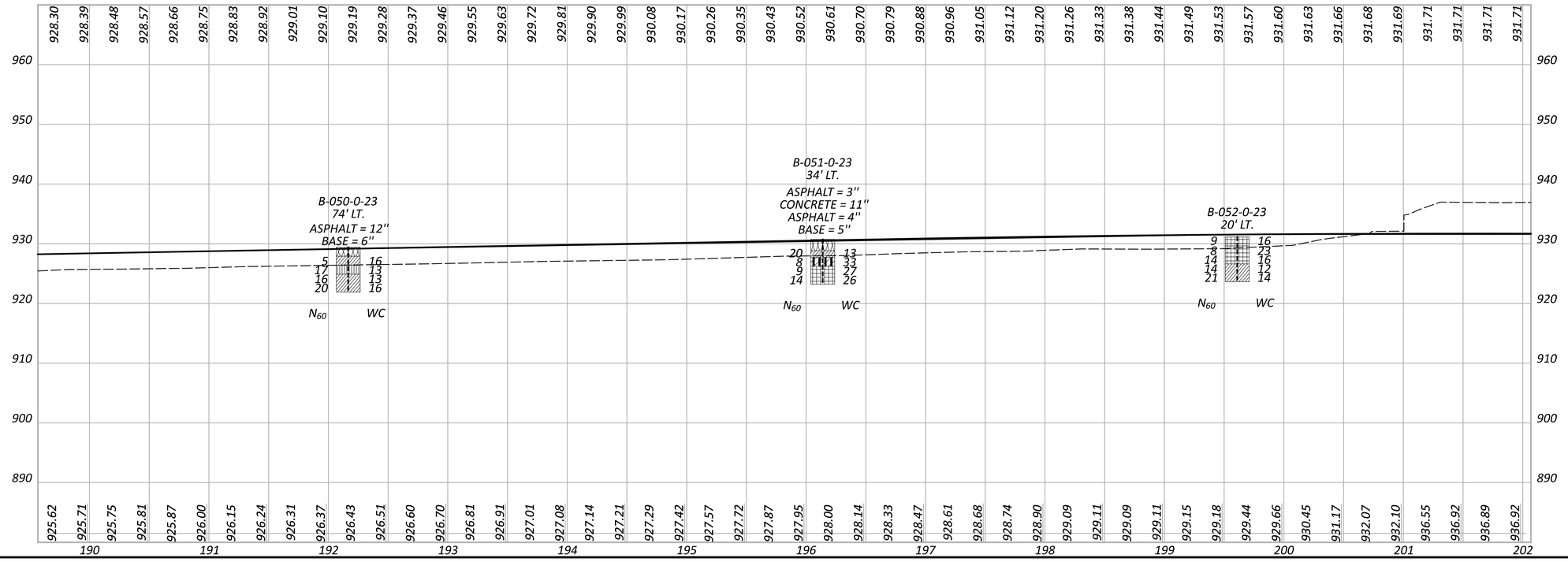

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 189+57 TO STA. 202+07 IR 70

DESIGN AGENCY
TEAS Transportation Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	22
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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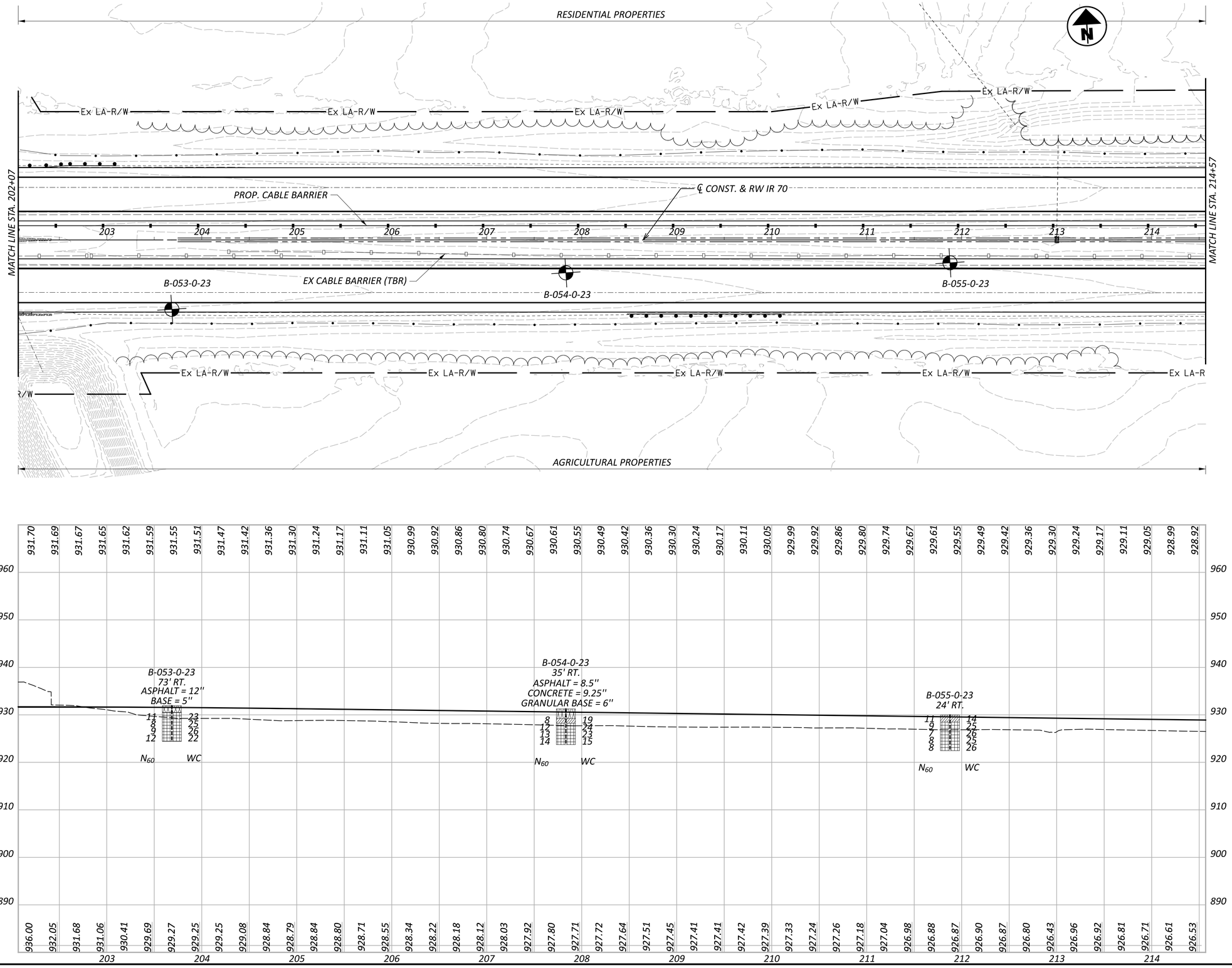

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 202+07 TO STA. 214+57 IR 70

DESIGN AGENCY
HEAS Highland Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	23
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

MODEL: 116949_IP018 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:11:53 PM USER: dtarawneh
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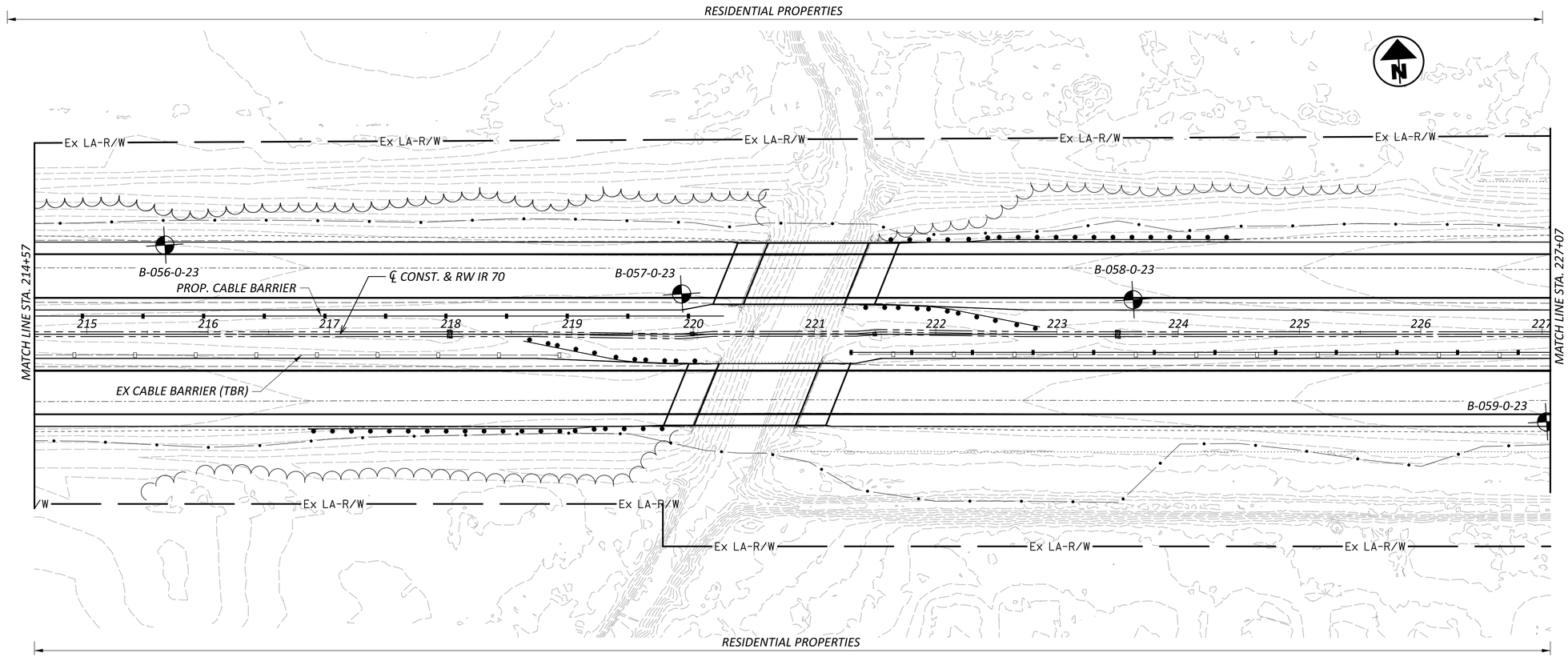

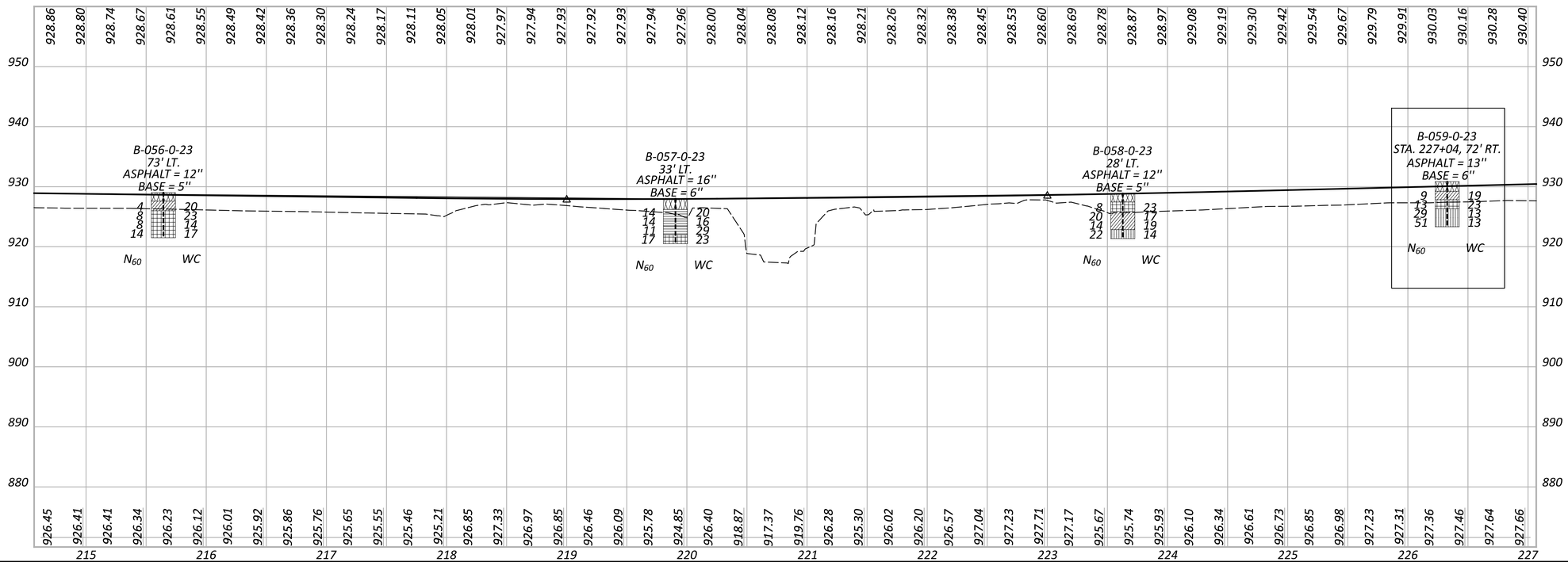

HORIZONTAL SCALE IN FEET
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GEOTECHNICAL PROFILE - ROADWAY
STA. 214+57 TO STA. 227+07 IR 70

FRA-70-00.00

MODEL: 116949_IP019 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:13:36 PM USER: dtarawneh
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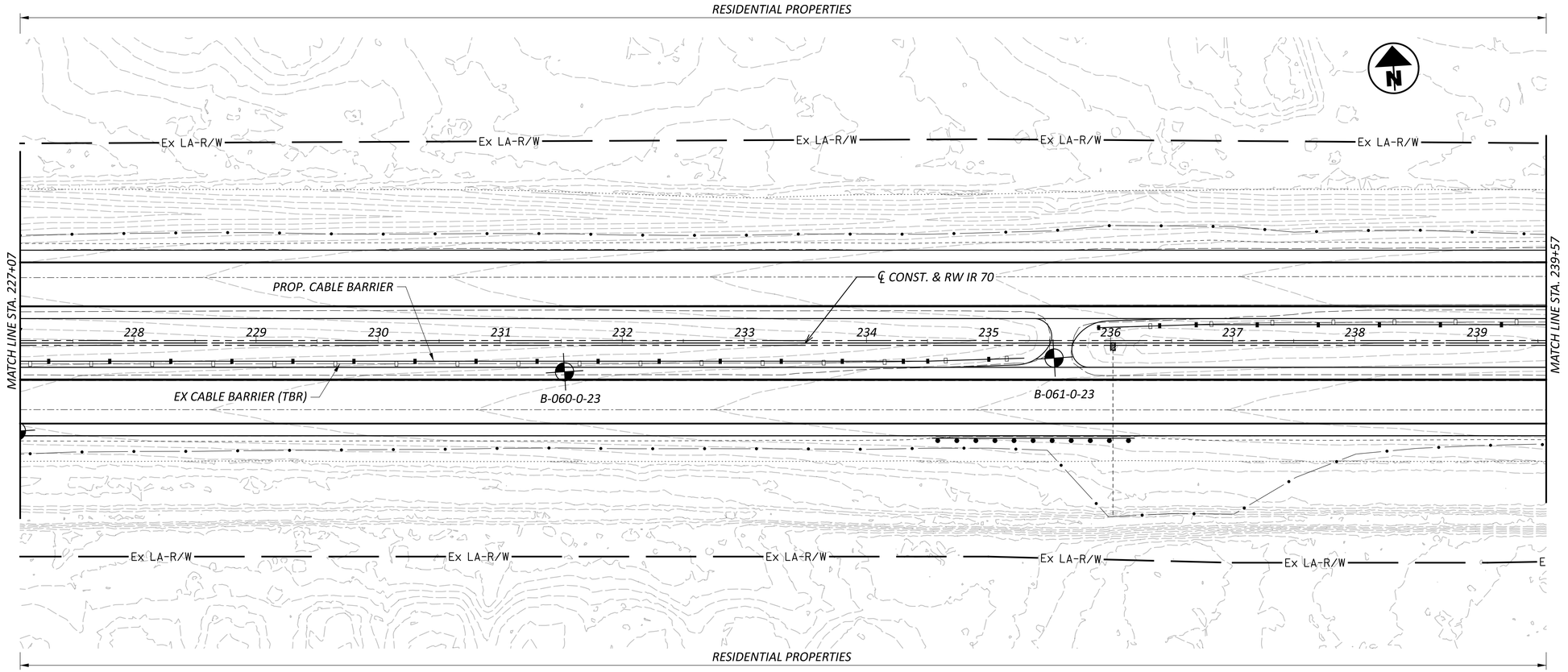
DESIGN AGENCY
EAS Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET / TOTAL	24 / 29
SHEET / TOTAL	P.0 / 0



HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 227+07 TO STA. 239+57 IR 70

DESIGN AGENCY
NEAS National Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	25
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

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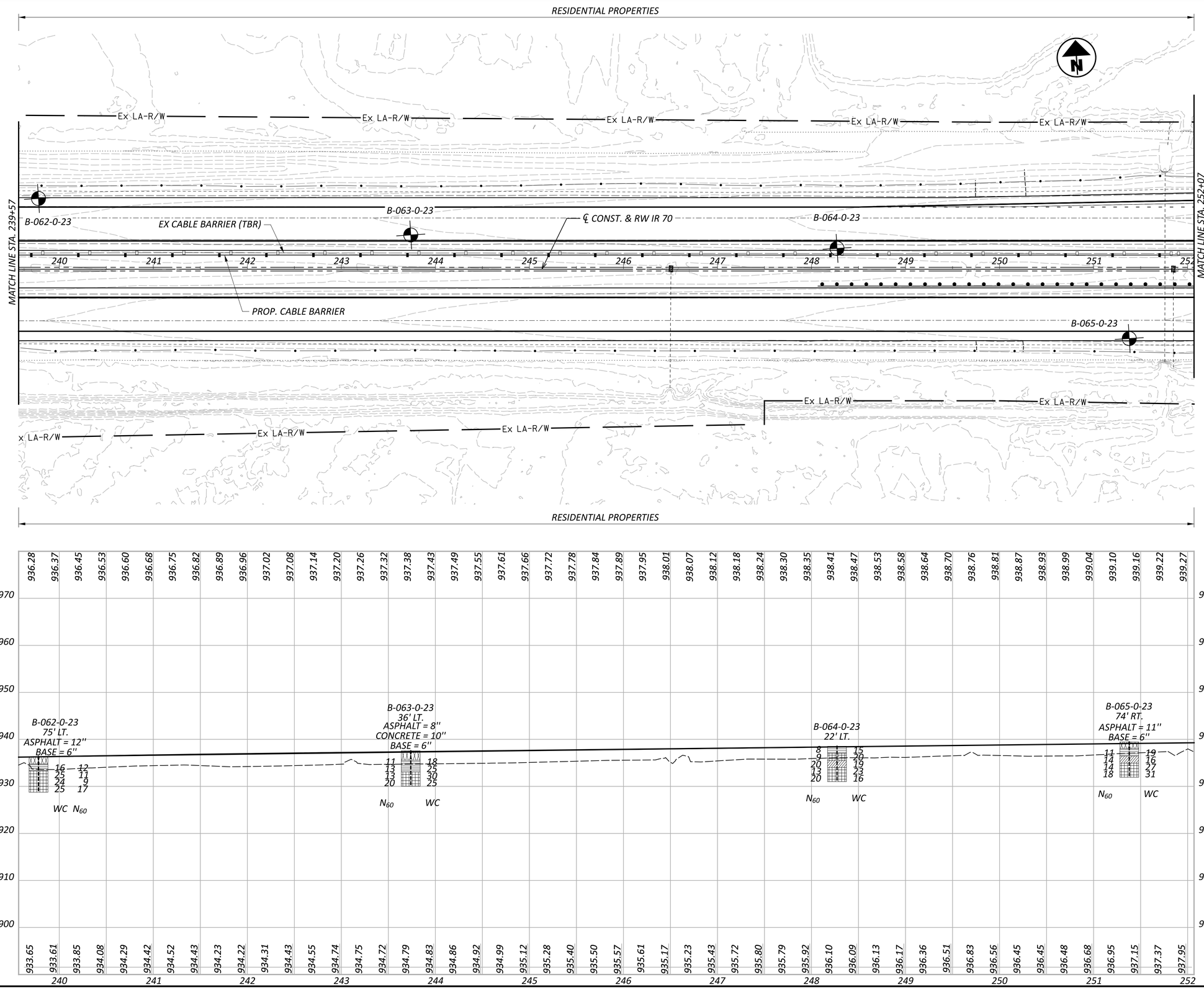

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 239+57 TO STA. 252+07 IR 70

DESIGN AGENCY
TEAS Transportation Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	26
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

MODEL: 116949_JP021 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:16:12 PM USER: dtarawneh
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RESIDENTIAL PROPERTIES

Ex LA-R/W — Ex LA-R/W — Ex LA-R/W — Ex LA-R/W — Ex LA-R/W

℄ CONST. RAMP A

℄ CONST. & RW IR 70

EX CABLE BARRIER (TBR)

B-068-0-23

B-066-0-23

B-067-0-23

MATCH LINE STA. 252+07

MATCH LINE STA. 264+57

253 254 255 256 257 258 259 260 261 262 263 264

RESIDENTIAL PROPERTIES

939.33 939.39 939.45 939.50 939.56 939.62 939.68 939.73 939.79 939.85 939.91 939.96 940.02 940.07 940.11 940.15 940.18 940.20 940.22 940.24 940.24 940.24 940.24 940.23 940.21 940.19 940.16 940.13 940.09 940.05 939.99 939.94 939.87 939.81 939.73 939.65 939.56 939.47 939.37 939.27 939.16 939.04 938.92 938.79 938.66 938.53 938.40 938.27 938.14 938.01

970 960 950 940 930 920 910 900

B-066-0-23
37' RT.
ASPHALT = 9''
CONCRETE = 9''
GRANULAR BASE = 6''

30	12
20	16
16	18
17	28
N_{60}	WC

B-067-0-23
29' RT.
ASPHALT = 14''
BASE = 5''

3	4
17	15
28	25
38	14
N_{60}	WC

B-068-0-23
100' LT.
ASPHALT = 10''
BASE = 6''

13	13
20	13
17	16
30	14
N_{60}	WC

936.68 936.63 936.66 936.76 936.88 936.97 937.05 937.23 937.44 937.55 937.63 937.88 938.01 937.76 937.77 937.71 937.63 937.41 937.16 937.17 937.25 937.35 937.45 937.33 937.12 937.18 937.32 937.31 937.26 937.15 937.01 936.98 937.00 936.95 936.88 936.80 936.72 936.59 936.56 936.46 936.34 936.18 936.11 935.99 935.85 935.80 935.78 935.64 935.47 935.35

253 254 255 256 257 258 259 260 261 262 263 264

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 252+07 TO STA. 264+57 IR 70

DESIGN AGENCY
TEAS Transportation Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	27
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

MODEL: 116949_JP022 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 12:18:06 PM USER: dtarawneh
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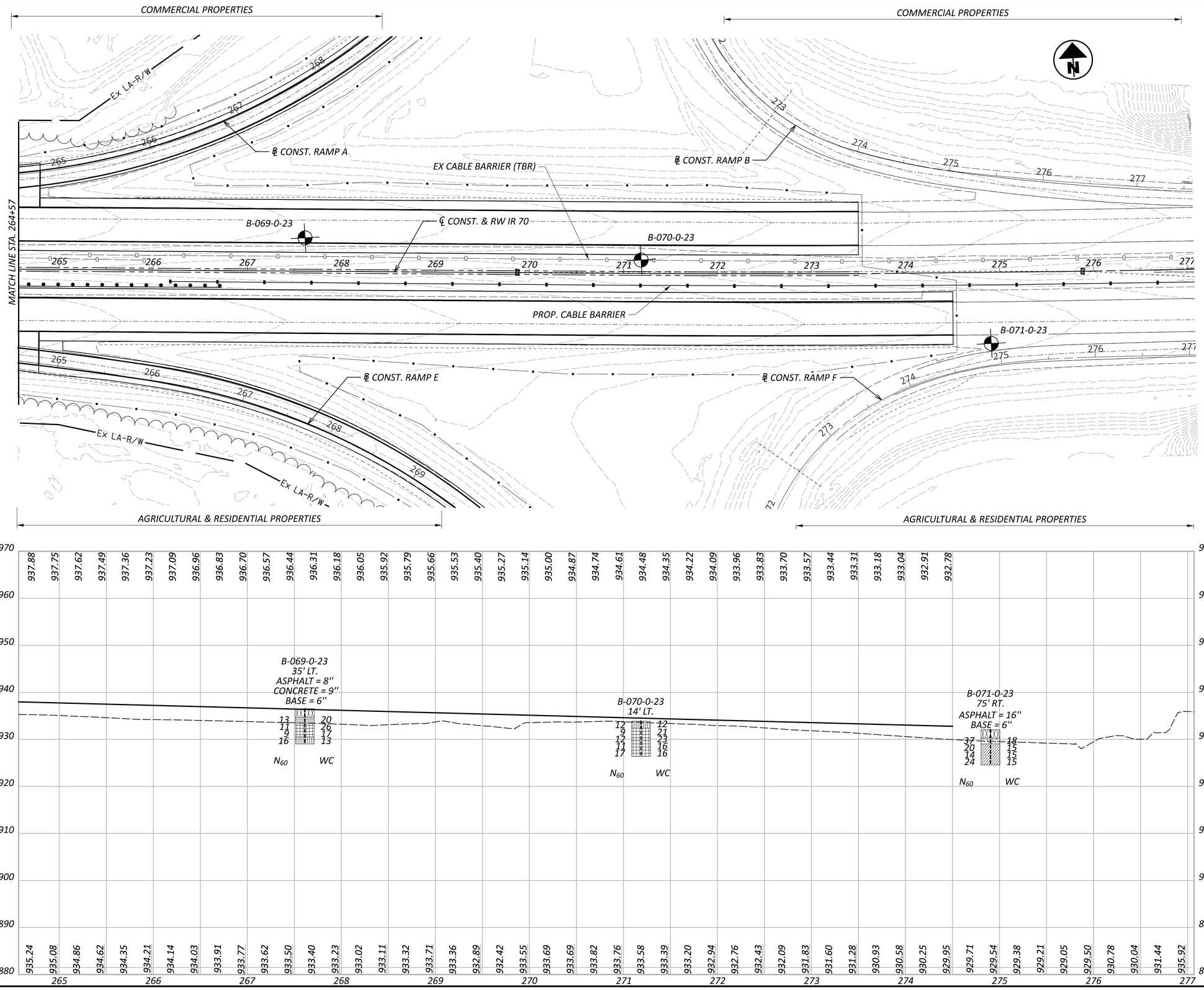

HORIZONTAL SCALE IN FEET
0 25 50 100

GEOTECHNICAL PROFILE - ROADWAY
STA. 264+57 TO END IR 70

DESIGN AGENCY
HEAS Highland Engineering & Architectural Services Inc.

DESIGNER	DT
REVIEWER	CH 05/28/24
PROJECT ID	116949
SUBSET	28
TOTAL	29
SHEET	P.0
TOTAL	0

FRA-70-00.00

MODEL: 116949_JP023 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 6:52:40 PM USER: dtarawneh
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MODEL: 116949_IP024 PAPERSIZE: 34x22 (in.) DATE: 5/29/2024 TIME: 6:53:46 PM USER: dtarawneh
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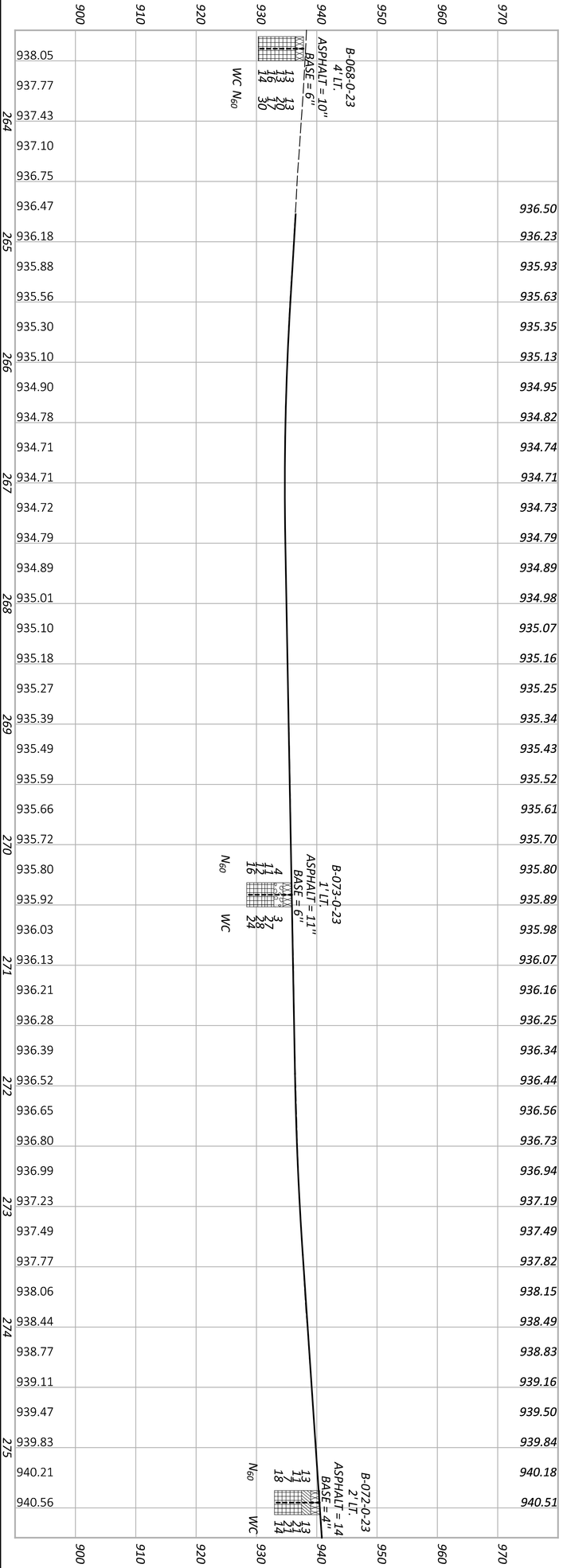

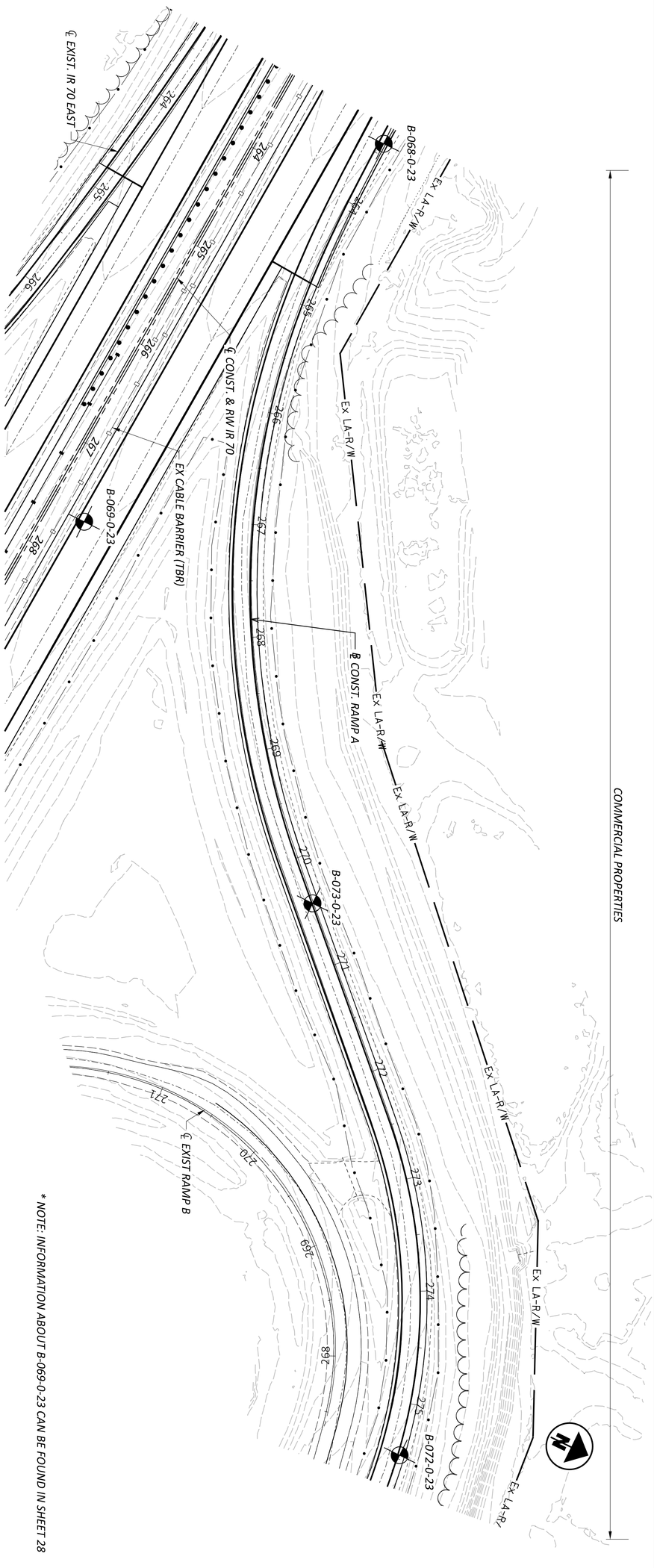

* NOTE: INFORMATION ABOUT B-069-0-23 CAN BE FOUND IN SHEET 28

GEOTECHNICAL PROFILE - ROADWAY
RAMP A

HORIZONTAL SCALE IN FEET
0 50
25 100

SHEET	TOTAL
P.0	0

SUBSET	TOTAL
29	29

PROJECT ID 116949

REVIEWER CH 05/28/24

DESIGNER DT

DESIGN AGENCY EAS Engineering & Architectural Services Inc.