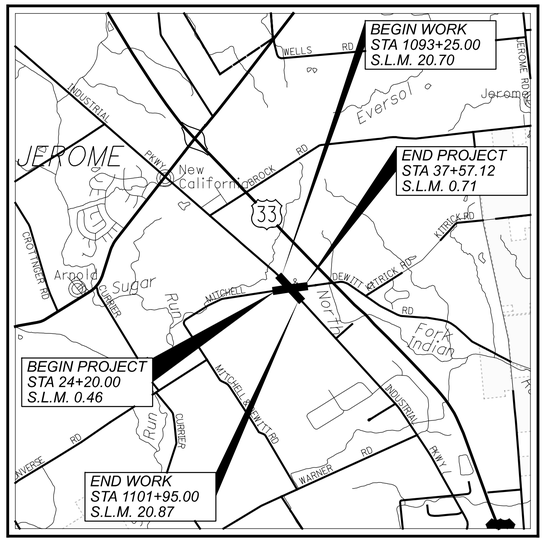
UNION COUNTY
ENGINEER'S OFFICE

INDUSTRIAL PARKWAY & MITCHELL-DEWITT ROAD INTERSECTION IMPROVEMENTS

JEROME TOWNSHIP
UNION COUNTY



LOCATION MAP

LATITUDE: N 40°08'32" LONGITUDE: W 83°12'56"

N

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

DESIGN DESIGNATION - INDUSTRIAL PARKWAY

CURRENT ADT (2023)	8608
DESIGN YEAR ADT (2043)	11319
DESIGN HOURLY VOLUME (2043)	1132
DIRECTIONAL DISTRIBUTION	51%
TRUCKS (24 HOUR B&C)	7%
DESIGN SPEED	50 MPH
LEGAL SPEED	50 MPH
DESIGN FUNCTIONAL CLASSIFICATION: RURAL COLLECTOR	
NHS PROJECT	NO

DESIGN DESIGNATION - MITCHELL DEWITT RD.

CURRENT ADT (2023)	3584
DESIGN YEAR ADT (2043)	4713
DESIGN HOURLY VOLUME (2043)	471
DIRECTIONAL DISTRIBUTION	54%
TRUCKS (24 HOUR B&C)	3%
DESIGN SPEED	50 MPH
LEGAL SPEED	50 MPH
DESIGN FUNCTIONAL CLASSIFICATION: RURAL COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

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FEDERAL PROJECT NUMBER

N/A

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF RECONSTRUCTING THE INTERSECTION OF INDUSTRIAL PKWY AND MITCHELL-DEWITT RD FROM A STOP CONTROLLED INTERSECTION TO A SINGLE-LANE ROUNDABOUT WITH CURB AND GUTTER, DRAINAGE IMPROVEMENTS, LIGHTING, TRAFFIC CONTROL AND NECESSARY UTILITY RELOCATIONS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	5.051 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.530 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	5.581 ACRES

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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE SIDE ROADS AS DESCRIBED ON SHEETS 18, 20, 22, 24 & 27 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED _____

DATE _____ UNION COUNTY ENGINEER

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:

STATE OF OHIO
LUKE STUTLER
PE.86344
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: Luke Stutler
DATE: 11/21/2023

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-2.2	1/15/21	HL-10.11	7/15/22	MT-97.11	1/20/17	TC-41.20	10/18/13			800	SEE PROPOSAL	
BP-2.5	1/21/22	HL-10.12	1/20/23	MT-99.20	4/19/19	TC-41.30	10/18/13			813	10/19/18	
BP-3.1	1/21/22	HL-10.13	1/20/23	MT-101.60	1/17/20	TC-41.40	10/18/13			825	1/17/20	
BP-3.2	1/18/19	HL-20.11	10/21/22	MT-101.70	1/17/20	TC-42.20	10/18/13			832	7/15/22	
BP-4.1	7/19/13	HL-30.11	1/15/21	MT-101.75	1/17/20	TC-52.10	10/18/13			902	7/19/19	
BP-5.1	7/15/22	HL-30.21	4/17/20	MT-101.90	7/17/20	TC-52.20	1/15/21			913	4/16/21	
		HL-30.22	1/15/21	MT-102.10	1/17/20	TC-71.10	7/15/22					
DM-1.1	7/17/20	HL-40.20	7/15/22	MT-103.10	1/21/22							
DM-1.2	7/16/21	HL-50.11	1/16/15	MT-105.10	1/17/20	WQ-1.1	1/18/13					
DM-4.2	7/20/12	HL-60.11	7/21/17									
DM-4.4	1/15/16	HL-60.31	1/17/20	RM-1.1	1/15/21							
				RM-3.1	7/20/18							
HW-2.2	7/20/18	MH-3	7/16/21	RM-4.2	4/17/20							

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

TITLE SHEET

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:04:59 PM USER: lstutler
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DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET 1 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:09 PM USER: lstutler
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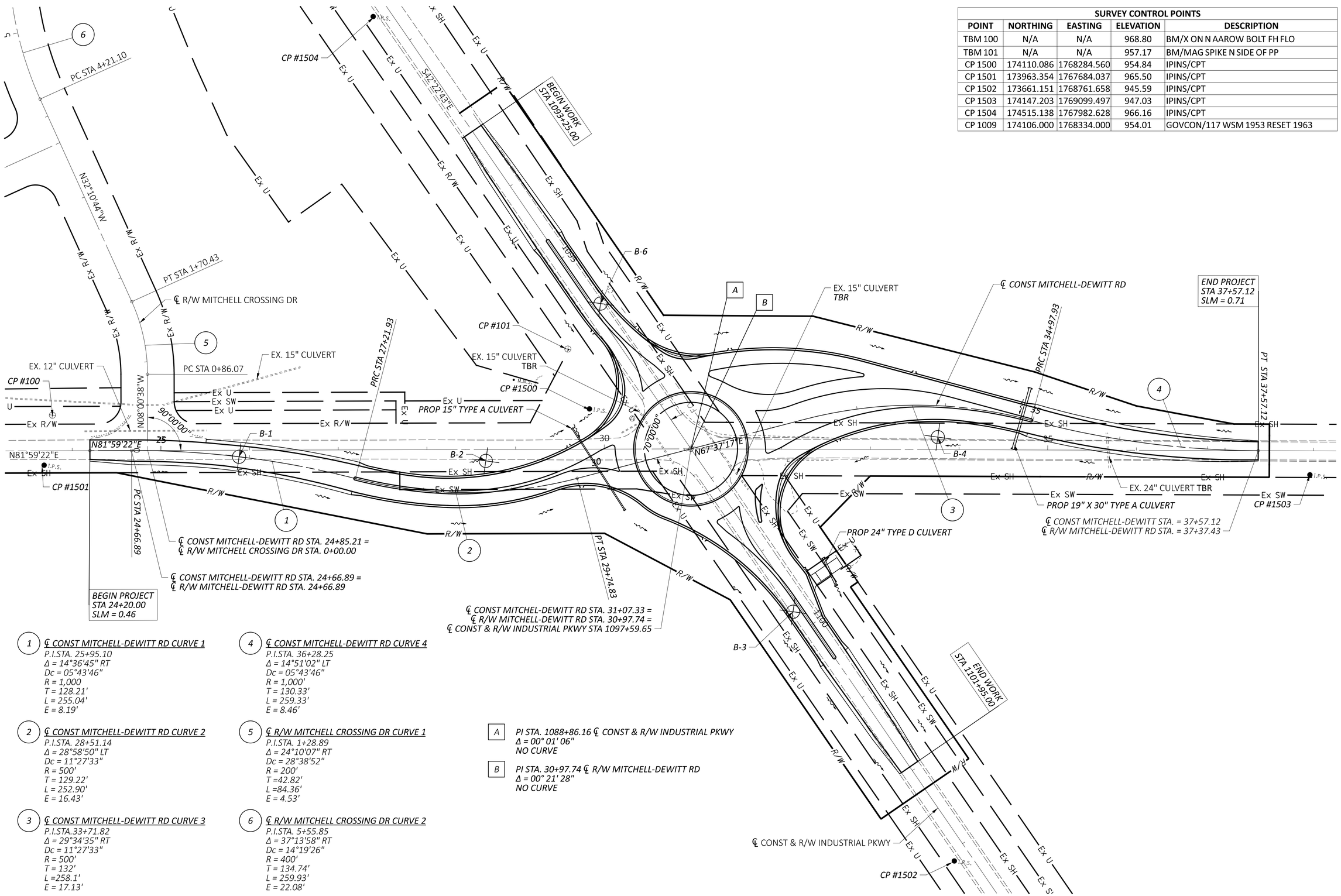
SURVEY CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM 100	N/A	N/A	968.80	BM/X ON N AAROW BOLT FH FLO
TBM 101	N/A	N/A	957.17	BM/MAG SPIKE N SIDE OF PP
CP 1500	174110.086	1768284.560	954.84	IPINS/CPT
CP 1501	173963.354	1767684.037	965.50	IPINS/CPT
CP 1502	173661.151	1768761.658	945.59	IPINS/CPT
CP 1503	174147.203	1769099.497	947.03	IPINS/CPT
CP 1504	174515.138	1767982.628	966.16	IPINS/CPT
CP 1009	174106.000	1768334.000	954.01	GOVCON/117 WSM 1953 RESET 1963



1 ℄ CONST MITCHELL-DEWITT RD CURVE 1
P.I.STA. 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000
T = 128.21'
L = 255.04'
E = 8.19'

2 ℄ CONST MITCHELL-DEWITT RD CURVE 2
P.I.STA. 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500'
T = 129.22'
L = 252.90'
E = 16.43'

3 ℄ CONST MITCHELL-DEWITT RD CURVE 3
P.I.STA.33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500'
T = 132'
L =258.1'
E = 17.13'

4 ℄ CONST MITCHELL-DEWITT RD CURVE 4
P.I.STA. 36+28.25
Δ = 14°51'02" LT
Dc = 05°43'46"
R = 1,000'
T = 130.33'
L = 259.33'
E = 8.46'

5 ℄ R/W MITCHELL CROSSING DR CURVE 1
P.I.STA. 1+28.89
Δ = 24°10'07" RT
Dc = 28°38'52"
R = 200'
T =42.82'
L =84.36'
E = 4.53'

6 ℄ R/W MITCHELL CROSSING DR CURVE 2
P.I.STA. 5+55.85
Δ = 37°13'58" RT
Dc = 14°19'26"
R = 400'
T = 134.74'
L = 259.93'
E = 22.08'

A PI STA. 1088+86.16 ℄ CONST & R/W INDUSTRIAL PKWY
Δ = 00° 01' 06"
NO CURVE

B PI STA. 30+97.74 ℄ R/W MITCHELL-DEWITT RD
Δ = 00° 21' 28"
NO CURVE

SCHEMATIC PLAN

DESIGN AGENCY
MERIDIAN STRUCTUREPOINT INC.

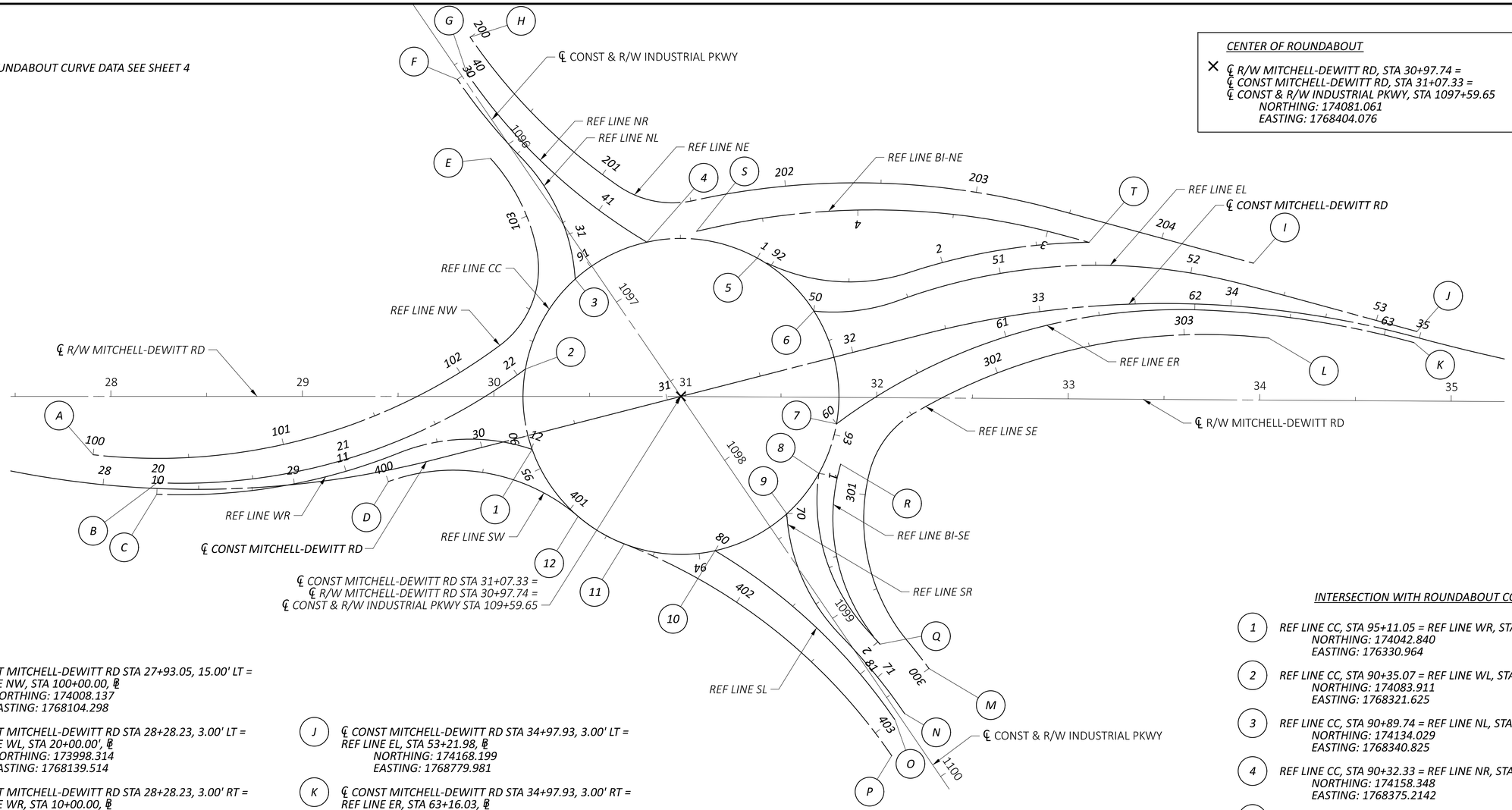
DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 2 TOTAL 131

NOTE:
FOR ROUNDABOUT CURVE DATA SEE SHEET 4



CENTER OF ROUNDABOUT

× ℄ R/W MITCHELL-DEWITT RD, STA 30+97.74 =
℄ CONST MITCHELL-DEWITT RD, STA 31+07.33 =
℄ CONST & R/W INDUSTRIAL PKWY, STA 1097+59.65
NORTHING: 174081.061
EASTING: 1768404.076

HORIZONTAL SCALE IN FEET
0 15 30 60

(A) ℄ CONST MITCHELL-DEWITT RD STA 27+93.05, 15.00' LT =
REF LINE NW, STA 100+00.00, ℘
NORTHING: 174008.137
EASTING: 1768104.298

(B) ℄ CONST MITCHELL-DEWITT RD STA 28+28.23, 3.00' LT =
REF LINE WL, STA 20+00.00', ℘
NORTHING: 173998.314
EASTING: 1768139.514

(C) ℄ CONST MITCHELL-DEWITT RD STA 28+28.23, 3.00' RT =
REF LINE WR, STA 10+00.00, ℘
NORTHING: 173992.342
EASTING: 1768140.098

(D) ℄ CONST MITCHELL-DEWITT RD STA 29+48.57, 5.83' RT =
REF LINE SW, STA , 400+00.00 ℘
NORTHING: 174015.756
EASTING: 1768258.961

(E) ℄ CONST & R/W INDUSTRIAL PKWY STA 1096+00.97, 11.95' RT =
REF LINE NW, STA 103+35.73, ℘
NORTHING: 174190.226
EASTING: 1768288.291

(F) ℄ CONST & R/W INDUSTRIAL PKWY STA 1095+57.04, 3.00' RT =
REF LINE NL, STA 30+00.00, ℘
NORTHING: 174228.709
EASTING: 1768265.295

(G) ℄ CONST & R/W INDUSTRIAL PKWY STA 1095+57.04, 3.00' LT =
REF LINE NR, STA 40+00.00, ℘
NORTHING: 174232.753
EASTING: 1768269.727

(H) ℄ CONST & R/W INDUSTRIAL PKWY STA 1095+42.67, 15.00' LT =
REF LINE NE, STA 200+00.00, ℘
NORTHING: 174251.458
EASTING: 1768268.905

(I) ℄ CONST MITCHELL-DEWITT RD STA 34+09.75, 23.11' LT =
REF LINE NE, STA 204+49.48, ℘
NORTHING: 174191.603
EASTING: 1768690.429

(J) ℄ CONST MITCHELL-DEWITT RD STA 34+97.93, 3.00' LT =
REF LINE EL, STA 53+21.98, ℘
NORTHING: 174168.199
EASTING: 1768779.981

(K) ℄ CONST MITCHELL-DEWITT RD STA 34+97.93, 3.00' RT =
REF LINE ER, STA 63+16.03, ℘
NORTHING: 174162.246
EASTING: 1768779.229

(L) ℄ CONST MITCHELL-DEWITT RD STA 34+21.61, 15.00' RT =
REF LINE SE, STA 303+44.26, ℘
NORTHING: 174153.985
EASTING: 1768703.855

(M) ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+50.00, 26.77' LT =
REF LINE SE, STA 300+00.00, ℘
NORTHING: 173958.446
EASTING: 1768552.114

(N) ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+62.26, 3.00' LT =
REF LINE SR, STA 71+23.74, ℘
NORTHING: 173933.368
EASTING: 1768542.810

(O) ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+62.26, 3.00' RT =
REF LINE SL, STA 81+30.11, ℘
NORTHING: 173929.326
EASTING: 1768538.376

(P) ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+76.63, 15.00' RT =
REF LINE SW, STA 404+14.66, ℘
NORTHING: 173910.621
EASTING: 1768539.192

(Q) ℄ CONST & R/W INDUSTRIAL PKWY STA 1098+35.91, 48.93' LT =
REF LINE BI-SE, STA 2+98.74, ℘
NORTHING: 174057.683
EASTING: 1768491.615

(R) ℄ CONST & R/W INDUSTRIAL PKWY STA 1099+25.09, 12.82' LT =
REF LINE BI-SE, STA 1+98.36, ℘
NORTHING: 173967.450
EASTING: 1768525.022

(S) ℄ CONST & R/W INDUSTRIAL PKWY STA 1096+93.00, 55.42' LT =
REF LINE BI-NE, STA 4+85.10, ℘
NORTHING: 1768400.126
EASTING: 174167.607

(T) ℄ CONST MITCHELL-DEWITT RD STA 33+28.33, 33.39' LT =
REF LINE BI-NE , STA 2+77.57, ℘
NORTHING: 1768603.903
EASTING: 174190.435

INTERSECTION WITH ROUNDABOUT CC

(1) REF LINE CC, STA 95+11.05 = REF LINE WR, STA 12+00.33
NORTHING: 174042.840
EASTING: 176330.964

(2) REF LINE CC, STA 90+35.07 = REF LINE WL, STA 22+05.20
NORTHING: 174083.911
EASTING: 1768321.625

(3) REF LINE CC, STA 90+89.74 = REF LINE NL, STA 31+23.74
NORTHING: 174134.029
EASTING: 1768340.825

(4) REF LINE CC, STA 90+32.33 = REF LINE NR, STA 41+30.11
NORTHING: 174158.348
EASTING: 1768375.2142

(5) REF LINE CC, STA 91+91.88 = REF LINE BI-NE, STA 1+00.00
NORTHING: 174158.143
EASTING: 1768433.480

(6) REF LINE CC, STA 92+32.81 = REF LINE EL, STA 50+00.00
NORTHING: 174134.851
EASTING: 1768466.630

(7) REF LINE CC, STA 92+94.25 = REF LINE ER, STA 60+00.00
NORTHING: 174078.211
EASTING: 1768486.527

(8) REF LINE CC, STA 93+21.87 = REF LINE BI-SE, STA 1+00.00
NORTHING: 174051.283
EASTING: 1768481.014

(9) REF LINE CC, STA 93+48.95 = REF LINE SR, STA 70+00.00
NORTHING: 174028.073
EASTING: 1768481.014

(10) REF LINE CC, STA 93+91.54 = REF LINE SL, STA 80+00.00
NORTHING: 174003.765
EASTING: 1768432.913

(11) REF LINE CC, STA 94+39.83 = REF LINE SW, STA 401+33.70
NORTHING: 174000.701
EASTING: 1768385.406

(12) REF LINE CC, STA 94+67.97 = REF LINE WR, STA 401+05.56
NORTHING: 174011.575
EASTING: 1768359.603

ROUNDBAOUT GEOMETRY LAYOUT

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:18 PM USER: lstutler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 3 TOTAL 131

REF. LINE	P.I. STATION	P.I. NORTHING	P.I. EASTING	Δ	Δc	TANGENT LENGTH (FT)	ARC LENGTH (FT)	RADIUS (FT)	BEGIN CURVE	END CURVE
CC	N/A	174,081.061	1,768,404.076	360° 00' 00" (RT)	N/A	N/A	518.36	82.50	90+00.00	95+18.36
EL	50+17.01	174,132.526	1,768,483.536	36° 12' 56" (LT)	57° 17' 45"	29.83	57.97	100.00	49+87.18	50+45.16
	51+40.73	174,191.672	1,768,594.108	35° 20' 26" (RT)	19° 05' 55"	95.57	185.04	300.00	50+45.16	52+30.20
ER	61+00.44	174,152.611	1,768,554.015	42° 00' 11" (RT)	19° 05' 55"	115.17	219.93	300.00	59+85.27	62+05.20
	62+60.85	174,169.218	1,768,724.021	12° 46' 37' (RT)	11° 31' 42"	55.65	110.83	497.00	62+05.20	63+16.03
NE	200+55.75	174,210.272	1,768,306.484	21° 03' 22" (LT)	19° 05' 55"	55.75	110.25	300.00	200+00.00	201+10.25
	201+32.00	174,175.613	1,768,375.801	47° 00' 32" (LT)	114° 35' 30"	21.75	41.02	50.00	201+10.25	201+51.27
	202+48.69	174,217.236	1,768,487.460	27° 38' 29" (RT)	14° 28' 07"	97.42	191.04	396.00	201+51.27	203+42.32
NL	30+26.47	174,209.153	1,768,283.139	9° 53' 22" (LT)	18° 43' 27"	26.47	52.82	306.00	30+00.00	30+52.82
	30+97.32	174,165.720	1,768,339.270	47° 58' 36" (RT)	57° 17' 45"	44.50	83.74	100.00	30+52.82	31+36.55
NR	40+73.86	174,178.195	1,768,319.508	27° 39' 39" (LT)	19° 05' 55"	73.86	144.83	300.00	40+00.00	41+44.83
NW	101+18.20	174,011.330	1,768,222.453	43° 00' 30" (LT)	19° 05' 55"	118.20	225.19	300.00	100+00.00	102+25.19
	102+56.96	174,116.550	1,768,329.313	64° 51' 43" (LT)	114° 35' 30"	31.77	56.60	50.00	102+25.192	102+81.79
	103+09.43	174,172.578	1,768,309.562	30° 54' 01" (LT)	57° 17' 45"	27.64	53.93	100.00	102+81.79	103+35.73
SE	300+09.02	173,964.881	1,768,545.793	03° 07' 54" (LT)	17° 21' 44"	9.02	18.04	330.00	300+00.00	300+18.04
	300+68.66	174,005.085	1,768,501.731	53° 42' 11" (RT)	57° 17' 45"	50.63	93.73	100.00	300+18.04	301+11.76
	301+32.76	174,076.305	1,768,509.319	45° 33' 32" (RT)	114° 35' 30"	21.00	39.76	50.00	301+11.76	301+51.52
	302+51.35	174,151.288	1,768,604.063	36° 48' 39" (RT)	19° 05' 55"	99.83	192.74	300.00	301+51.52	303+44.26
SL	80+59.13	173,983.899	1,768,488.613	27° 39' 39" (RT)	19° 05' 55"	73.86	144.83	300.00	79+85.27	81+30.11
SR	70+31.68	173,996.381	1,768,468.855	47° 58' 36" (LT)	57° 17' 45"	44.50	83.74	100.00	69+87.19	70+70.92
	70+97.39	173,952.930	1,768,524.972	9° 53' 22" (RT)	18° 43' 27"	26.47	52.82	306.00	70+70.92	71+23.74
SW	400+58.30	174,043.001	1,768,310.501	60° 28' 56" (RT)	57° 17' 45"	58.30	105.56	100.00	400+00.00	401+05.56
	401+19.77	174,003.916	1,768,371.568	19° 32' 28" (LT)	69° 26' 58"	14.21	28.14	82.50	401+05.56	401+33.70
	402+27.02	173,979.581	1,768,476.311	34° 33' 37" (RT)	19° 05' 55"	93.33	180.96	300.00	401+33.70	403+14.66
WL	21+15.17	174,009.511	1,768,254.137	42° 00' 11" (LT)	19° 05' 55"	115.17	219.93	300.00	20+00.00	22+19.93
WR	10+65.69	173,998.729	1,768,205.476	24° 13' 54" (LT)	18° 43' 27"	65.69	129.41	306.00	10+00.00	11+29.414
	11+73.91	174,053.508	1,768,301.082	47° 58' 36" (RT)	57° 17' 45"	44.50	83.74	100.00	11+29.414	12+13.15
BI-NE	1+43.62	174,142.599	1,768,474.230	47° 07' 43" (LT)	57° 17' 45"	43.62	82.26	100.00	1+00.00	1+82.26
	2+30.29	174,183.133	1,768,556.428	17° 30' 16" (RT)	18° 21' 51"	48.03	95.32	312.00	1+82.26	2+77.57
	3+84.67	174,203.854	1,768,497.648	27° 35' 13" (LT)	15° 04' 40"	93.29	182.96	380.00	2+91.38	4+74.35
BI-SE	1+47.63	174,003.658	1,768,480.886	50° 55' 57" (LT)	57° 17' 45"	47.63	88.89	100.00	1+00.00	1+88.89
	2+53.23	174,003.401	1,768,483.560	57° 30' 48" (RT)	57° 17' 45"	54.88	100.38	100.00	1+98.36	2+98.74

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:20 PM USER: lstutler
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ROUNDBAOUT GEOMETRY CURVE DATA

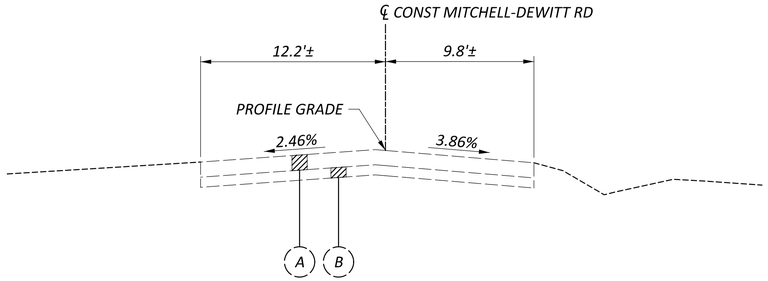
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

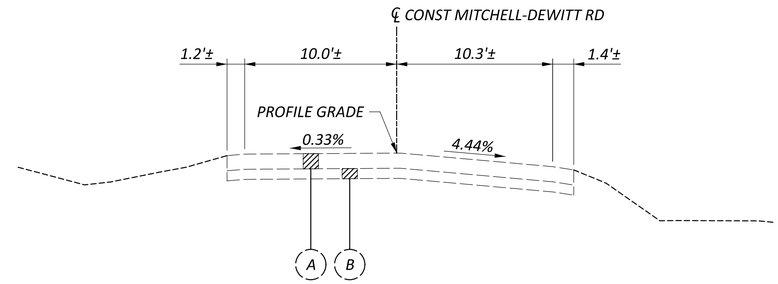
REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

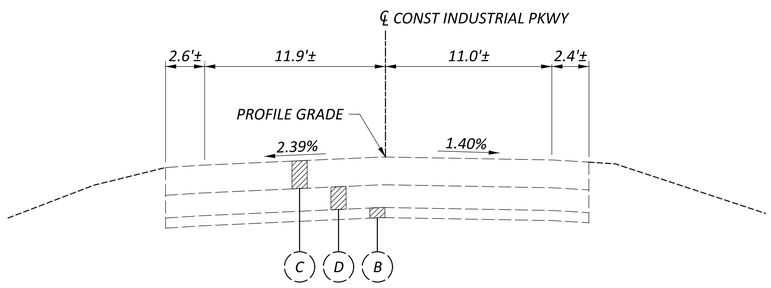
SHEET 4 TOTAL 131



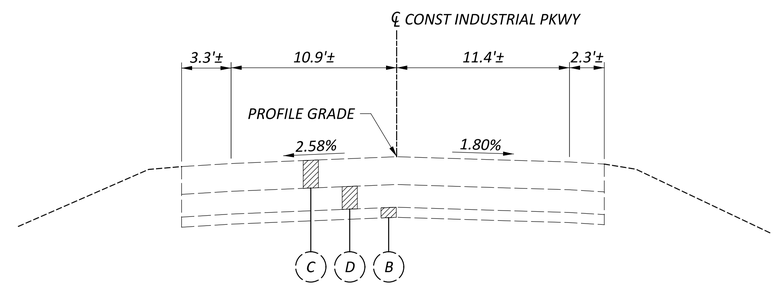
EXISTING SECTION - MITCHELL-DEWITT RD
STA 24+20.00



EXISTING SECTION - MITCHELL-DEWITT RD
STA 37+57.12



EXISTING SECTION - INDUSTRIAL PKWY
STA 1093+25.00



EXISTING SECTION - INDUSTRIAL PKWY
STA 1101+95.00

LEGEND

1. ITEM 441 - 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
2. ITEM 407 - TACK COAT (0.055 GAL/SY)
3. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
4. ITEM 301 - 8" ASPHALT CONCRETE BASE, (449), PG64-22
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1
7. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2
8. ITEM 609 - CURB, TYPE 6
9. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 9
10. ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 3
11. ITEM 609 - 6" CONCRETE TRAFFIC ISLAND
12. ITEM 605 - 4" BASE PIPE UNDERDRAINS
13. ITEM 659 - SEEDING AND MULCHING
14. ITEM 609 - CURB, TYPE 10
15. ITEM 204 - GRANULAR MATERIAL, TYPE B
16. ITEM 204 - GEOTEXTILE FABRIC
17. ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN

- (A) EXISTING 6" ASPHALT PAVEMENT
- (B) EXISTING 4" AGGREGATE BASE
- (C) EXISTING 11" ASPHALT PAVEMENT
- (D) EXISTING 9" CONCRETE

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

TYPICAL SECTIONS

MODEL: Sheet 1 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:26 PM USER: lstuller
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

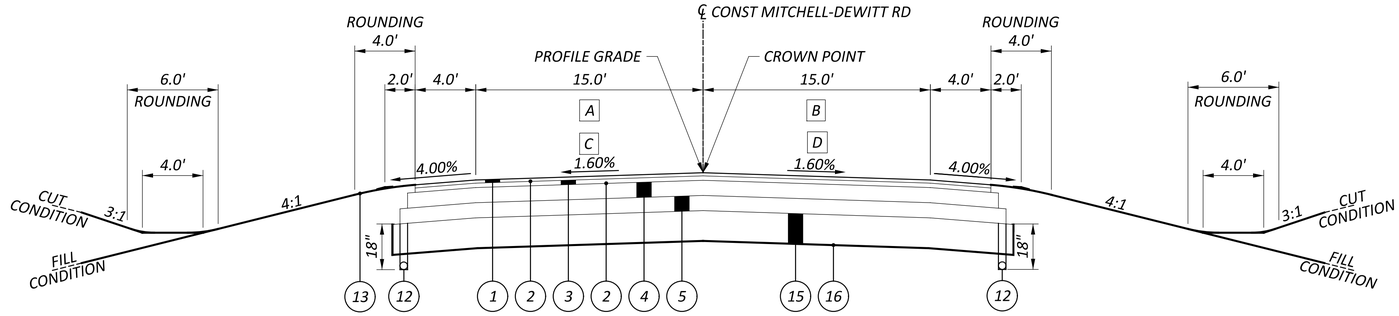
SHEET 5 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

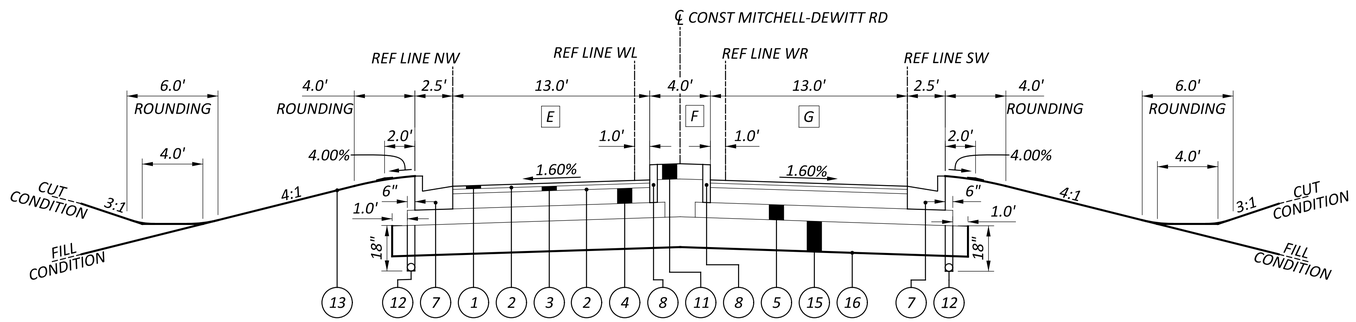
MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:27 PM USER: lstuller
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GY001.dgn

TYPICAL SECTIONS

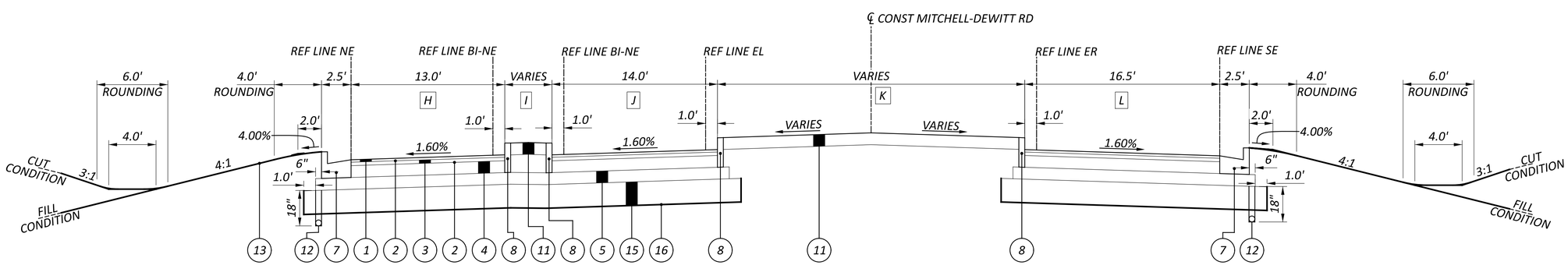
A	VARIES 12.0' TO 15.0' STA 24+20.00 TO STA 27+19.93
	VARIES 15.0' TO 12.0' STA 34+99.93 TO STA 37+57.12
B	VARIES 9.7' TO 15.0' STA 24+20.00 TO STA 27+19.93
	VARIES 15.0' TO 12.0' STA 34+99.93 TO STA 37+57.12
C	VARIES 2.46% TO 0.10% STA 24+20.00 TO STA 25+51.00
	VARIES 0.10% TO 1.60% STA 25+51.00 TO STA 25+90.00
	VARIES 1.60% TO 0.33% STA 37+24.00 TO STA 37+57.12
D	VARIES 3.86% TO 1.60% STA 24+20.00 TO STA 24+78.00
	VARIES 1.60% TO 4.44% STA 36+84.00 TO STA 37+57.12
E	VARIES 13.0' TO 20.8' STA 27+93.05 TO STA 30+23.32
F	VARIES 4.0' TO 30.5' STA 29+57.03 TO STA 30+23.32
G	VARIES 13.0' TO 19.1' STA 27+48.57 TO STA 30+23.32
H	VARIES 16.7' TO 13.0' STA 31+91.46 TO STA 33+12.21
I	VARIES 25.0' TO 16.5' STA 31+91.46 TO STA 33+12.21
	VARIES 7.6' TO 35.4' STA 31+91.46 TO STA 32+07.42
J	VARIES 35.4' to 3.8' STA 32+07.42 TO STA 33+12.21
K	VARIES 18.5' TO 14.0' STA 31+91.46 TO STA 32+39.14
L	VARIES 50.4' TO 26.8' STA 31+91.46 TO STA 33+12.21



TYPICAL SECTION - MITCHELL-DEWITT RD
STA 24+20.00 TO STA 27+19.93
STA 34+99.93 TO STA 37+57.12



TYPICAL SECTION - MITCHELL-DEWITT RD
STA 27+19.93 TO STA 30+23.32
SEE TRUCK SKIRT APRON NW - STA 29+96.37 TO STA 30+23.32
SEE ROUNDABOUT DETAILS - STA 30+23.32 TO STA 31+91.46



TYPICAL SECTION - MITCHELL-DEWITT RD
STA 31+91.46 TO STA 33+12.21
SEE TRUCK SKIRT APRON SE - STA 31+91.46 TO 32+51.99

NOTES:

SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH DETAILS

SEE SPLITTER ISLAND DETAILS FOR SPLITTER ISLAND CROSS SLOPES

FOR LEGEND SEE SHEET 5
FOR ROUNDABOUT DETAILS SEE SHEET 71

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

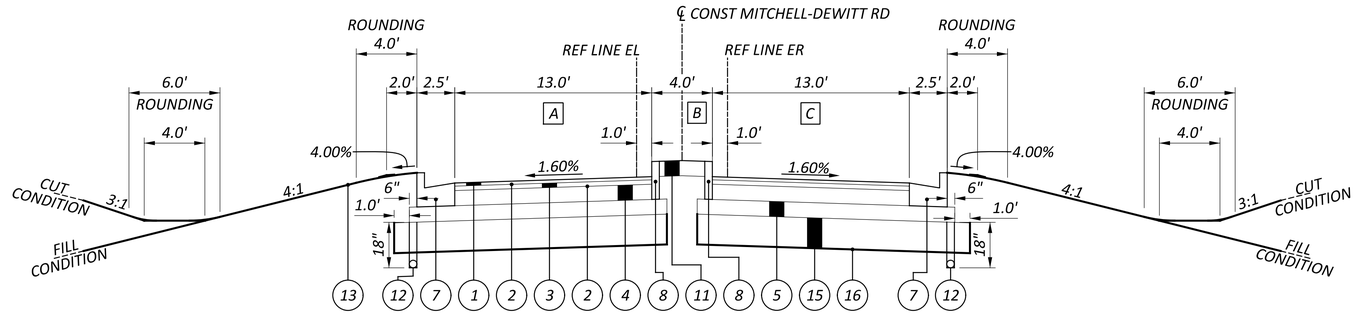
PROJECT ID
2022.01156

SHEET 6 TOTAL 131

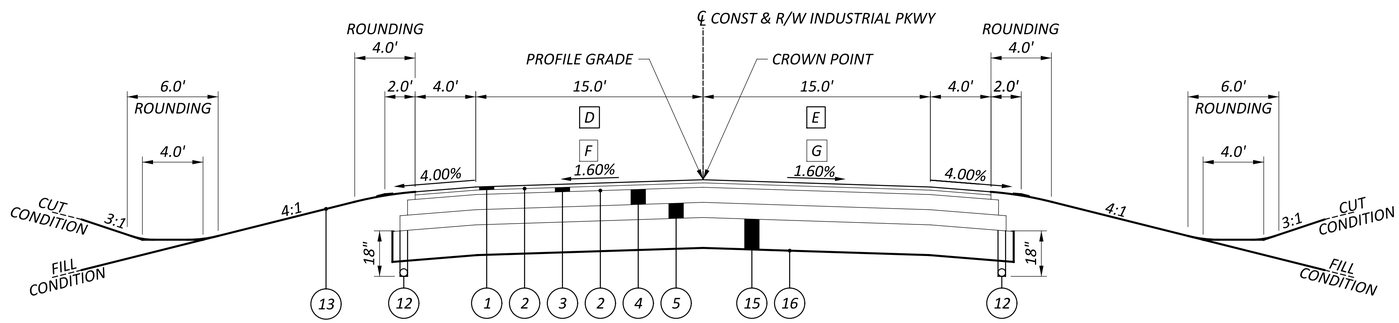
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet 3 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:28 PM USER: lstuller
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GY001.dgn

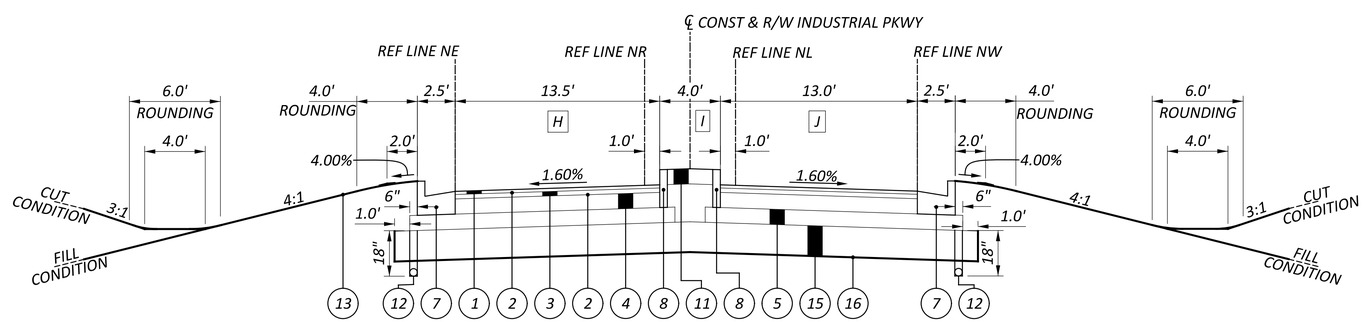
A	VARIES 30.8' TO 13.0' STA 33+12.21 TO STA 34+07.69
B	VARIES 26.8' TO 4.0' STA 33+12.21 TO STA 34+99.93
C	VARIES 16.5' TO 13.0' STA 33+12.21 TO STA 34+21.61
D	VARIES 12.0' TO 15.0' STA 1093+25.00 TO STA 1094+73.00
	VARIES 15.0' TO 12.0' STA 1100+45.00 TO STA 1101+95.00
E	VARIES 12.0' TO 15.0' STA 1093+25.00 TO STA 1094+73.00
	VARIES 15.0' TO 12.0' STA 1100+45.00 TO STA 1101+95.00
F	VARIES 2.39% TO 1.60% STA 1093+25.00 TO STA 1093+46.00
	VARIES 1.60% TO 2.58% STA 1101+70.00 TO STA 1101+95.00
G	VARIES 1.40% TO 1.60% STA 1093+25.00 TO STA 1093+30.00
	VARIES 1.60% TO 1.80% STA 1101+90.00 TO STA 1101+95.00
H	VARIES 13.0' TO 21.2' STA 1095+42.67 TO STA 1096+75.29
I	VARIES 4.0' TO 30.9' STA 1095+09.34 TO STA 1096+75.29
J	VARIES 13.0' TO 19.8' STA 1095+99.17 TO STA 1096+75.29



TYPICAL SECTION - MITCHELL-DEWITT RD
STA 33+12.21 TO STA 34+99.93



TYPICAL SECTION - INDUSTRIAL PKWY
STA 1093+25.00 TO STA 1094+73.00
STA 1100+45.00 TO STA 1101+95.00



TYPICAL SECTION - INDUSTRIAL PKWY
STA 1094+73.00 TO STA 1096+75.29
SEE TRUCK SKIRT APRON NE - STA 1096+21.86 TO STA 1096+75.29
SEE TRUCK SKIRT APRON NW - STA 1095+99.20 TO STA 1096+75.29

NOTES:

SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH DETAILS

SEE SPLITTER ISLAND DETAILS FOR SPLITTER ISLAND CROSS SLOPES

FOR LEGEND SEE SHEET 5
FOR ROUNDABOUT DETAILS SEE SHEET 71

TYPICAL SECTIONS

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 7 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:29 PM USER: lstuller
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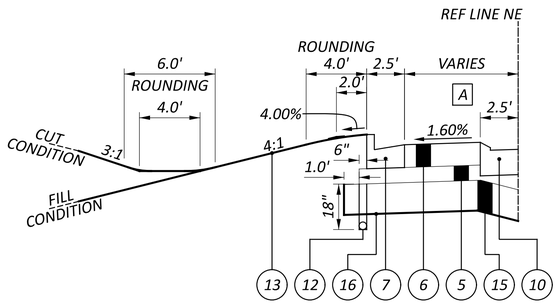
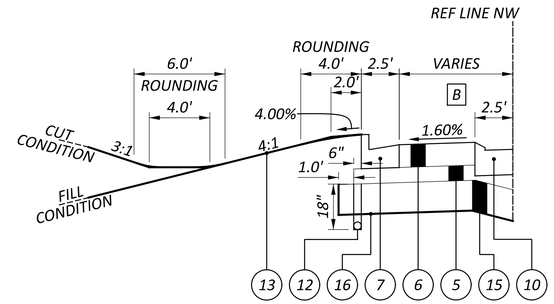
TYPICAL SECTIONS

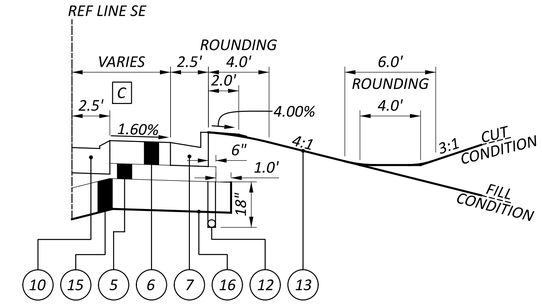
A	VARIES 0.0' TO 4.8' STA 200+80.14 TO STA 201+28.62
	VARIES 4.8' TO 0.0' STA 201+28.62 TO STA 201+70.16
B	VARIES 0.0' TO 8.1' STA 101+97.68 TO STA 102+58.86
	VARIES 8.1' TO 0.0' STA 102+58.86 TO STA 103+35.73
C	VARIES 0.0' TO 6.5' STA 300+27.58 TO STA 301+25.11
	VARIES 6.5' TO 0.0' STA 301+25.11 TO STA 301+80.50
D	16.8' STA 1098+44.01 TO STA 1098+72.80
E	VARIES 7.7' TO 4.0' STA 1098+44.01 TO STA 1098+72.80
F	VARIES 18.0' TO 16.4' STA 1098+44.01 TO STA 1098+72.80
G	VARIES 30.9' TO 15.3' STA 1098+44.01 TO STA 1098+72.80
H	VARIES 19.7' TO 16.9' STA 1098+44.01 TO STA 1098+72.80
I	VARIES 37.9' TO 25.0' STA 1098+72.80 TO STA 1099+32.00
	25.0' STA 1099+32.00 TO STA 1099+50.00
	VARIES 25.0' TO 13.0' STA 1099+50.00 TO STA 1100+00.00
J	VARIES 15.3' TO 4.0' STA 1098+72.80 TO STA 1099+09.96
K	VARIES 16.9' TO 13.0' STA 1098+72.80 TO STA 1099+76.63



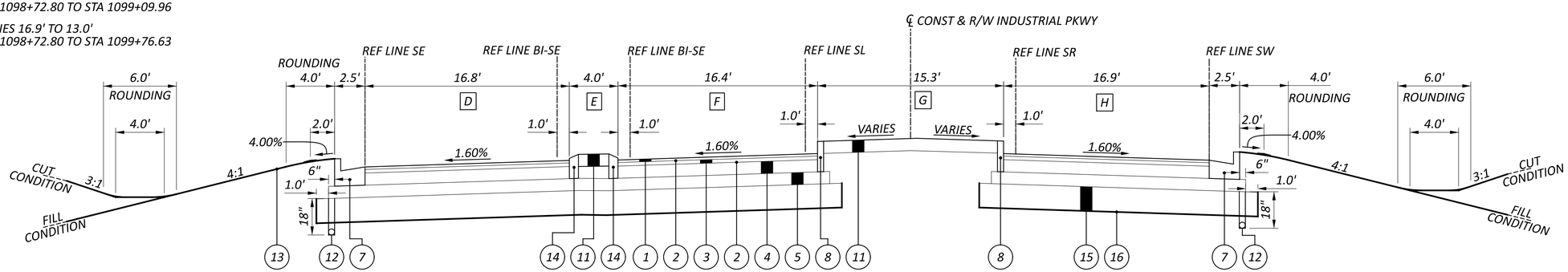
TRUCK SKIRT APRON DETAIL - REF LINE NE
STA 200+80.14 TO STA 201+70.16



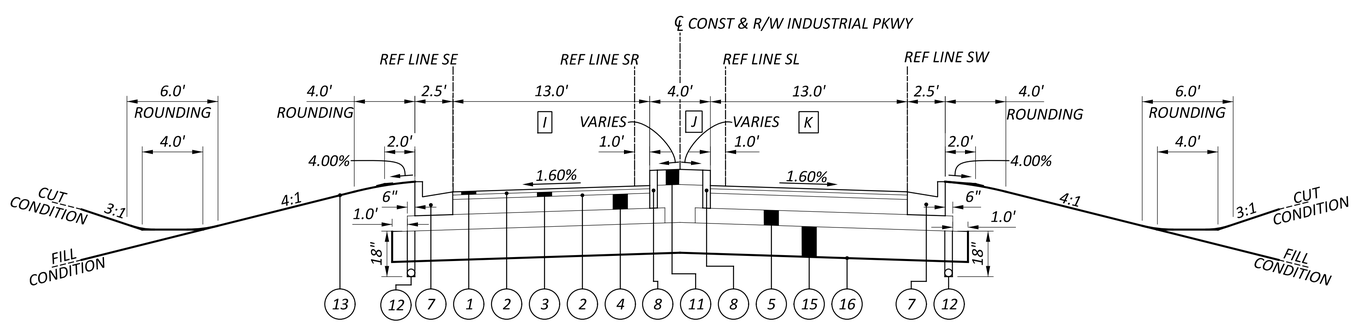
TRUCK SKIRT APRON DETAIL - REF LINE NW
STA 101+97.68 TO STA 103+35.73



TRUCK SKIRT APRON DETAIL - REF LINE SE
STA 300+27.58 TO STA 301+80.50



TYPICAL SECTION - INDUSTRIAL PKWY
STA 1098+44.01 TO STA 1098+72.80
SEE TRUCK SKIRT APRON SE - STA 1098+44.01 TO STA 1098+72.80



TYPICAL SECTION - INDUSTRIAL PKWY
STA 1098+72.80 TO STA 1100+45.00
SEE TRUCK SKIRT APRON SE - STA 1098+72.80 TO STA 1099+22.48

NOTES:

SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH DETAILS

SEE SPLITTER ISLAND DETAILS FOR SPLITTER ISLAND CROSS SLOPES

FOR LEGEND SEE SHEET 5
FOR ROUNDABOUT DETAILS SEE SHEET 71

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 8 TOTAL 131

A VARIES 1.6' TO 3.0'
STA 90+00.00 TO STA 90+22.57

VARIES 1.5' TO 3.0'
STA 90+93.96 TO STA 91+19.83

VARIES 1.5' TO 1.0'
STA 91+72.70 TO STA 91+80.62

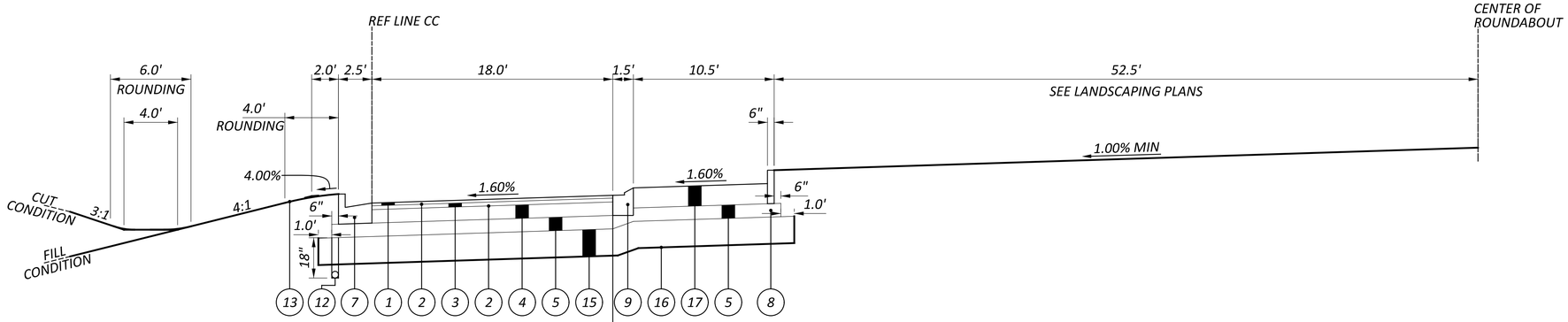
1.0'
STA 91+80.62 TO STA 91+91.88

VARIES 1.5' TO 1.0'
STA 92+36.96 TO STA 92+59.18

VARIES 1.0' TO 1.5'
STA 92+59.18 TO STA 92+82.35

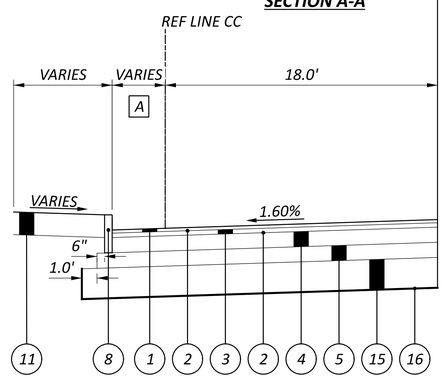
VARIES 1.5' TO 3.0'
STA 93+53.17 TO STA 93+79.03

VARIES 1.5' TO 1.62'
STA 95+15.07 TO STA 95+18.36

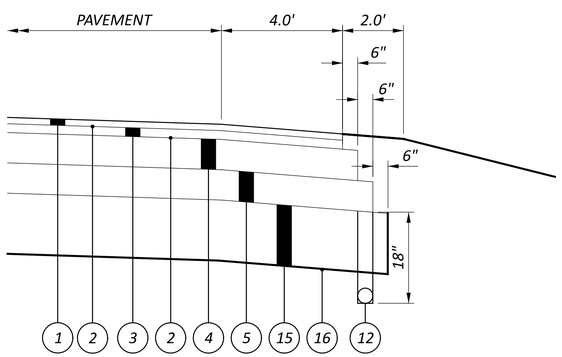


SECTION A-A

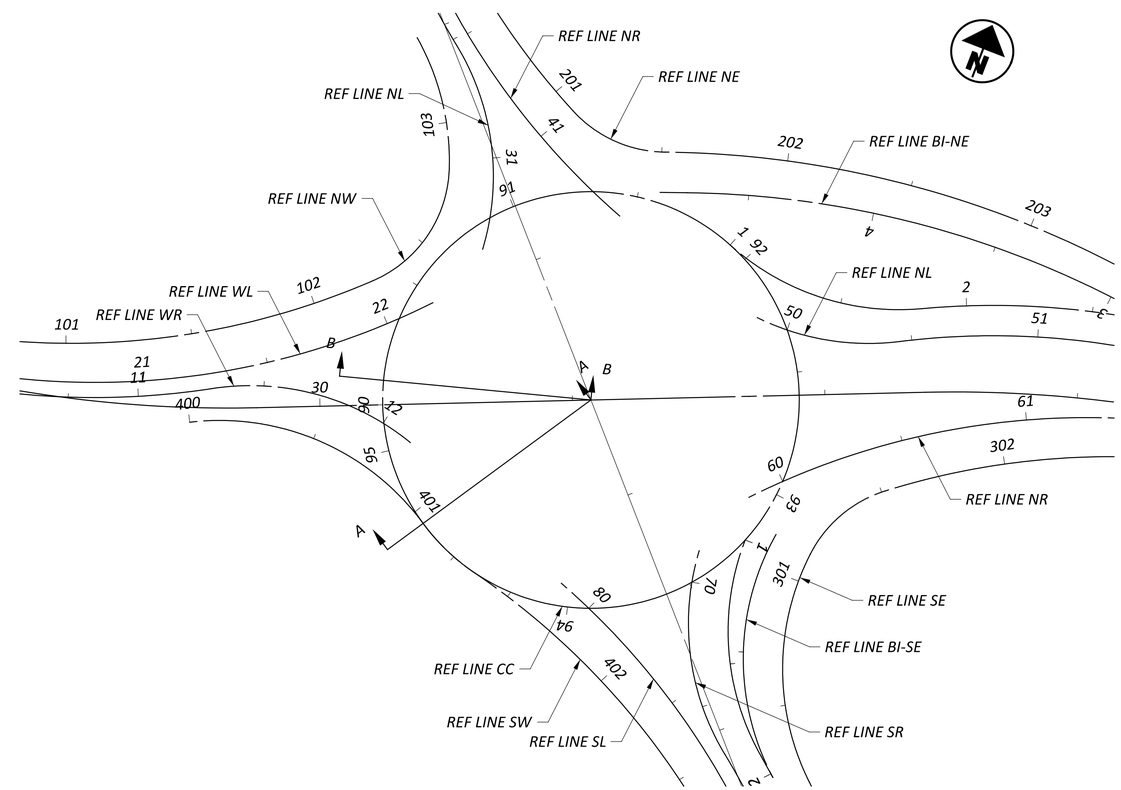
TYPICAL SECTION - ROUNDABOUT
STA 90+00.00 TO STA 95+18.36 (CC)



SECTION B-B



BASE AND SUBBASE STEP DETAIL



NOTES:

SEE CROSS SECTIONS FOR SIDE SLOPES AND DITCH DETAILS

SEE SPLITTER ISLAND DETAILS FOR SPLITTER ISLAND CROSS SLOPES

FOR LEGEND SEE SHEET 5
FOR ROUNDABOUT DETAILS SEE SHEET 71

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet 5 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:31 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GY001.dgn

TYPICAL SECTIONS

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
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SHEET 9 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:33 PM USER: lstutler
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UTILITIES

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

WATER
CITY OF MARYSVILLE
ATTN: SCOTT SHEPPEARD
455 N. MAPLE STREET
MARYSVILLE, OHIO 43040
937-645-7350
SSHEPPEARD@MARYSVILLEOHIO.ORG

SEWER
CITY OF MARYSVILLE
ATTN: KYLE HOYNG
12901 BEECHER-GAMBLE ROAD
MARYSVILLE, OHIO 43040
937-645-7350
KHOYNG@MARYSVILLOHIO.ORG

GAS
COLUMBIA GAS OF OHIO
ATTN: ROB CALDWELL
3550 JOHNNY APPLESEED COURT
COLUMBUS, OH 43231
614-818-2104
RCALDWELL@NISOURCE.COM

ELECTRIC
UNION RURAL ELECTRIC COOPERATIVE, INC.
ATTN: HEDY NELSON
15461 US HWY 36
MARYSVILLE, OH 43040
937-642-1826
HNELSON@URE.COM

TELEPHONE & CABLE
AT&T (FORMERLY SBC)
ATT: ADAM STONCHECK
111 N 4TH ST
COLUMBUS, OH 43215
614-266-8964
AS883P@ATT.COM

CHARTER COMMNUNICATIONS/SPECTRUM
(AKA TIME WARNER COMMUNICATIONS)
TRAVIS CONRAD
3760 INTERCHANGE ROAD
COLUMBUS, OH 43204
614-481-5274
DL-MOH-CONSTRUCTION-FRELO-TEAM@CHARTER.COM

ZAYO FIBER SOLUTIONS
ATTN: ERIC L ALEXANDER
251 NEILSON STREET
COLUMBUS, OH 43215
614-989-9655
ERIC.ALEXANDER@ZAYO.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 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:	*LAMBERT CONFORMAL CONIC*
COORDINATE SYSTEM:	*OHIO STATE PLAN (NORTH)*
COMBINED SCALE FACTOR:	*1.000028065*
ORIGIN OF COORDINATE SYSTEM:	*CP 1500 (174110.086, 1768284.560)*

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.

ROUNDING

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

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7PM AND 7AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

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.

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	*2*	*EA*
659, TOPSOIL	*1390*	*CY*
(12519 X 111/1000 = 1390)		
659, SEEDING AND MULCHING	*12519*	*SY*
659, REPAIR SEEDING AND MULCHING		
(12519 X 0.05 = 626)	*626*	*SY*
659, INTER-SEEDING		
(12519 X 0.05 = 626)	*626*	*SY*
659, COMMERCIAL FERTILIZER		
(12519/7410 + 626/11115 = 1.75)	*1.75*	*TON*
659, LIME		
(12519/4840 = 2.59)	*2.59*	*ACRES*
659, WATER		
(12519 X 0.0054 + 626 X 0.0027 = 69)	*69*	*MGAL*

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.

FARM DRAINS

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE CONSTRUCTION LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS IS DETERMINED BY THE ENGINEER AND PAYMENT MADE ON FINAL MEASUREMENTS.

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

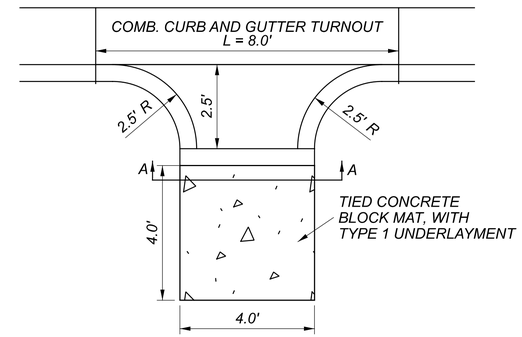
PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

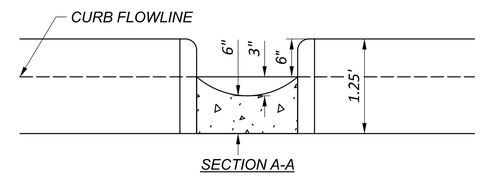
THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611 - 6" CONDUIT, TYPE B 50 FT
611 - 6" CONDUIT, TYPE E 50 FT
611 - 6" CONDUIT, TYPE F 50 FT
601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 5 CY

ITEM 609 - CURB MISC.: COMBINATION CURB AND GUTTER TURNOUT

THIS ITEM SHALL BE CONSTRUCTED AS PER DETAILS SHOWN BELOW. ALL LABOR, MATERIALS, AND INCIDENTALS NECESSARY TO CONSTRUCT A COMPLETE TURNOUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 609 - CURB MISC.: COMBINATION CURB AND GUTTER TURNOUT (EACH).





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.

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.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 118.

GENERAL NOTES

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

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.

ITEM 203 - ROADWAY, MISC.: GRASS PAVERS

THE DESIGN OF THE GRASS PAVERS SHALL MEET ALL MANUFACTURER'S REQUIREMENTS FOR MATERIALS, LOAD RATINGS AND ANCILLARY CONSTRUCTION ITEMS. ANY TOPSOIL REQUIRED TO FILL IN THE CELLS OF THE GRASS PAVERS SHALL BE INCLUDED IN THE UNIT BID PRICE. THE UNIT PRICE FOR THIS ITEM SHALL ALSO INCLUDE COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK.

THE GRASS PAVERS SHALL BE:
1. NDS EZ-ROLL GRASS PAVER (HTTPS://WWW.NDSPRO.COM/PRODUCTS/PERMEABLE-PAVERS/EZ-ROLL-GRASS-PAVERS.HTML)

OR

2. TRUEGRID ROOT GRASS PAVERS (HTTPS://WWW.TRUEGRIDPAVER.COM/PRODUCTS/ROOT/)

OR APPROVED EQUAL BY THE ENGINEER.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 – PROOF ROLLING 6 HOUR

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 8, 12, AND 18 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

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 BIOFILTER(S) 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.

ITEM 611 - CONDUIT BORED OR JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 5 FEET TO THE EDGE OF PAVEMENT. PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENCIAL FULLY PENETRATING B-U4B WELD THAT IS PERFORMED BY A CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1.1 OR MACHINED INTERLOCKING JOINTS ARE PERMITTED.THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE.

THE WORK FOR THIS ITEM, INCLUDING INCLUDE COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK, SHALL BE PAID FOR UNDER THE ALTERNATE BID ITEM, ITEM 611 - CONDUIT BORED OR JACKED, 12" (SANITATY SEWER).

LANDSCAPE COORDINATION

THE UNION COUNTY ENGINEER'S OFFICE HAS HIRED A LANDSCAPE CONSULTANT ON A SEPARATE CONTRACT TO COMPLETE THE INSTALLATION OF ALL LANDSCAPING WORK ON THE PROJECT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE LANDSCAPER TO ENSURE THAT THE PLANTINGS ARE INSTALLED AFTER THE FINAL GRADING AND TOPSOIL HAS BEEN PLACED AND PRIOR TO THE FINAL SEEDING AND MULCHING WORK IS COMPLETED. ANY PLANTINGS OR OTHER LANDSCAPE FEATURES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR. THE UNION COUNTY ENGINEER'S OFFICE WILL PROVIDE THE CONTACT INFORMATION OF THE LANDSCAPER TO THE CONTRACTOR TO ASSIST IN THE COORDINATION EFFORT.

ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN

A. CONCRETE SHALL BE IN ACCORDANCE WITH THE PLANS AND SECTION 450 OF THE ODOT STANDARD SPECIFICATIONS.

B. THE CONCRETE COLOR SHALL BE :
   - "BRICK RED" MANUFACTURED BY DAVIS COLORS; PHONE 800-356-4848, EMAIL INFO@DAVISCOLORS.COM, OR INTERNET WWW.DAVISCOLORS.COM

   OR

   - "ENGLISH RED" MANUFACTURED BY KEMIKO; PHONE 800-875-4596, EMAIL EPMARCS@QUAKERHOUGHTON.COM, OR INTERNET WWW.KEMIKO.COM

   OR SIMILAR AS APPROVED BY THE ENGINEER.

C. COLORED CONCRETE WILL BE AN INTEGRAL COLORING APPLICATION, WITH COLORING ADDITIVES MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MIX UNTIL COLOR ADDITIVES ARE UNIFORMLY DISPERSED THROUGHOUT MIXTURE.

D. CURING COMPOUND FOR COLORED CONCRETE: CURING COMPOUND SHALL COMPLY WITH ASTM C309 AND BE APPROVED BY COLOR ADDITIVE MANUFACTURER FOR THE USE WITH COLORED CONCRETE. PROVIDE JS CLEAR COAT SEALER OR APPROVED EQUAL ON ALL SURFACES.

E. ADMIXTURES: DO NOT USE CALCIUM CHLORIDE ADMIXTURES.

F. CONCRETE STAMPS SHALL BE OF THE TYPE NECESSARY TO PRODUCE A EUROPEAN FAN BRICK PATTERN WITH BRICKS SIZE 5-1/8 IN WIDE X 4-1/2 IN TO 7" LONG. JOINTS SHALL HAVE THE APPEARANCE OF A 3/8 IN WIDE AND 1/8 IN DEEP GROUNTED JOINT.

G. A MOCKUP SHALL BE BUILT ON SITE 30 DAYS PRIOR TO COMMENCING WORK, USING SAME MATERIALS, METHODS AND WORK FORCE THAT WILL BE USED FOR THE PROJECT. THE ENGINEER AND OWNER WILL DETERMINE SPECIFIC REQUIREMENTS AND LOCATIONS, AND WHETHER MOCKUP SHALL BE INCORPORATED AS PART OF THE FINAL PROJECT.

H. THE MOCKUP SHALL BE OF ADEQUATE SIZE TO ILLUSTRATE THE PATTERN, STAINING, AND TEXTURE SELECTED; AND SHALL INCLUDE AN AREA TO DEMONSTRATE THE FORMLINER BUTT JOINT AND, IF APPROPRIATE, THE CONTINUATION OF PATTERN THROUGH CONSTRUCTION JOINT.

CONSTRUCTION REQUIREMENTS:

A. COMPLY WITH IMPRINTED CONCRETE AND ASSOCIATED FINISHES MANUFACTURER'S INSTRUCTIONS.

B. DO NOT INSTALL WORK IF AIR TEMPERATURE AND CONCRETE SUBSTRATE TEMPERATURE ARE NOT BETWEEN 45 AND 85 DEGREES FAHRENHEIT BEFORE AND DURING ALL INSTALLATION. IN HOT WEATHER, INSTALL WORK IN EARLY MORNING OR WHEN SURFACES ARE SHADED. KEEP BAGGED PRODUCTS OUT OF SUNLIGHT. USE COOL WATER; DO NOT USE WATER FROM HOT WATERING HOSES.

C. PROTECT IMPRINTED CONCRETE AND ASSOCIATED FINISHES FROM RAIN FOR 24 HOURS.

D. IN WINDY WEATHER, PROTECT ADJACENT CONSTRUCTION FROM OVER-SPRAY DURING APPLICATION OF SEALERS.

E. PROTECT ALL EXISTING NON-COLORED CONCRETE SURFACES PRIOR TO POURING COLORED CONCRETE TO AVOID STAINING OF NON-COLORED SURFACES.

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:05:35 PM USER: lstufler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER
LZS
REVIEWER
KAM 06/02/23
PROJECT ID
2022.01156

ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF 1 LANE(S) OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED ALONG INDUSTRIAL PKWY AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, OR ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON MITCHELL-DEWITT RD, EXCEPT FOR A PERIOD NOT TO EXCEED 90 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS 15 & 16. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $1500 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD 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 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.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURE	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

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 UNION COUNTY ENGINEER'S OFFICE.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

SIGNS AND BARRICADES

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

ALL LISTED BELOW SHALL BE R11-3-66 SIGNS ON TYPE III BARRICADES
PHASE 1 & 1A:

MITCHELL-DEWITT ROAD AT MITCHELL CROSSING DR FACING WEST

ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

NOTIFICATION 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 FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE UNION COUNTY ENGINEER'S OFFICE. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

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

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS AND PIO
RAMP & ROAD CLOSURE	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

ROAD CLOSED SIGN

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN TRAFFIC SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

PHASE 1 & 1A:
MITCHELL-DEWITT ROAD AT MITCHELL CROSSING DR FACING WEST

PHASE 2:
MITCHELL-DEWITT ROAD 700 FT EAST OF INDUSTRIAL PKWY FACING EAST

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.

ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

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.

SEQUENCE OF CONSTRUCTION

ORDER OF ROUNDABOUT CONSTRUCTION SHALL BE AS FOLLOWS, UNLESS AN ALTERNATIVE PLAN IS SUBMITTED AND APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES:

NOTE FOR ALL PHASES: ELIMINATE PAVEMENT MARKINGS AND/OR SIGNAGE FROM EXISTING OR PRIOR PHASES THAT CONFLICT WITH PROPOSED WORK OR TRAFFIC PATTERNS.

PRE-PHASE 1:
CONSTRUCT TEMPORARY PAVEMENT ALONG EAST SIDE OF INDUSTRIAL PKWY, AS SHOWN ON SHEETS 17 - 19. TWO-WAY TRAFFIC ON INDUSTRIAL PKWAY AND MITCHELL-DEWITT RD SHALL BE MAINTAINED WITH FLAGGERS WHILE THE TEMPORARY PAVEMENT IS INSTALLED.

PHASE 1:
SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT ALONG EAST SIDE OF INDUSTRIAL PKWY. CONSTRUCT PAVEMENT WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, CURB, DRAINAGE AND TEMPORARY PAVEMENT ALONG WEST SIDE OF INDUSTRIAL PKWY. CONSTRUCT PAVEMENT WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, CURB AND MEDIAN ALONG MITCHELL-DEWITT RD, WEST OF INDUSTRIAL PKWY. TEMPORARY PAVEMENT SHALL BE CONSTRUCTED IN PLACE OF THE CONCRETE SPLITTER ISLAND AND MEDIAN CURB ALONG INDUSTRIAL PKWY , AS WELL AS THE TRUCK APRON, WHICH SHALL BE CONSTRUCTED IN PHASE 3. CLOSURE OF THE MITCHELL CROSSING ROAD INTERSECTION IS NOT PERMITTED. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE 2 ALONG WEST SIDE OF INDUSTRIAL PKWY, AS SHOWN ON SHEETS 17 - 19.

CONSTRUCT OFFLINE WORK ON MITCHELL-DEWITT RD FIRST TO LIMIT THE CLOSURE TIME ON MITCHEL-DEWITT RD. THE WEST LEG OF MITCHELL-DEWITT RD SHALL BE CLOSED FOR CONSTRUCTION FOR A MAXIMUM OF 30 DAYS. FOR DETOUR PLAN SEE SHEET 15.

PHASE 1A:
CONSTRUCT PAVEMENT, WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, ALONG MITCHELL-DEWITT RD AT THE MITCHELL CROSSING ROAD INTERSECTION. CONSTRUCT IN PHASES IN ORDER TO MAINTAIN ACCESS TO THE MITCHELL CROSSING SUBDIVISION AT ALL TIMES. CLOSURE OF THE MITCHELL CROSSING ROAD INTERSECTION IS NOT PERMITTED.

PHASE 2:
SHIFT TRAFFIC ONTO PAVEMENT CONSTRUCTED IN PHASE 1 AND TEMPORARY PAVEMENT ALONG WEST SIDE OF INDUSTRIAL PKWY. CONSTRUCT PAVEMENT WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, CURB, DRAINAGE AND TEMPORARY PAVEMENT ALONG EAST SIDE OF INDUSTRIAL PKWY. CONSTRUCT PAVEMENT WITH THE EXCEPTION TO THE FINAL SURFACE COURSE, CURB AND MEDIAN ALONG MITCHELL-DEWITT RD, EAST OF INDUSTRIAL PKWY. ONCE ROUNDABOUT IS OPEN, REMOVE TEMPORARY PAVEMENT AND CONSTRUCT SPLITTER ISLANDS.

CONSTRUCT OFFLINE WORK ON MITCHELL-DEWITT RD FIRST TO LIMIT THE CLOSURE TIME ON MITCHEL-DEWITT RD. THE EAST LEG OF MITCHELL-DEWITT RD SHALL BE CLOSED FOR CONSTRUCTION FOR A MAXIMUM OF 30 DAYS. FOR ETOUR PLAN SEE SHEET 16.

ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

PHASE 3:
REMOVE ALL THE TEMPORARY PAVEMENT ALONG INDUSTRIAL PKWY USED IN PHASE 2. CONTRUST THE CONCRETE SPLITTER ISLAND, MEDIAN CURB, TRUCK APRON AND CURB, PLACEMENT OF THE FINAL COURSE OF ASPHALT PAVEMENT, PLACE FINAL PAVEMENT MARKINGS, AND ERECT FINAL SIGNAGE. PERFORM FINAL SITE PREPARATION INCLUDING GRADING, SEEDING AND MULCHING, LANDSCAPING, AND SITE CLEANUP.

A MINIMUM OF 1 LANE 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, AND ITEM 615 ROADS FOR MAINTAINING TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 615, ROADS FOR MAINTAINING TRAFFIC LS

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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER
LZS
REVIEWER
KAM 06/02/23
PROJECT ID
2022.01156

ITEM 614 - LAW ENFORCEMENT OFFICER (W/PATROL CAR) FOR ASSITANCE

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.

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) SHOULD 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).

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 IN 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 ZONES.

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 (W/PATROL CAR) FOR ASSITANCE (CONTINUED)

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	120 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.

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

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.

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	15 MGAL

ITEM 614 - DETOUR SIGNING

ALL DETOUR SIGNING FOR PHASE 1 AND 2 SHALL BE PAID FOR UNDER THE LUMP SUM BID PRICE FOR ITEM 614-DETOUR SIGNING.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

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 MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

EARTHWORK FOR MAINTAINING TRAFFIC

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

EXCAVATION FOR MAINTAINING TRAFFIC	140 CY
EMBANKMENT FOR MAINTAINING TRAFFIC	327 CY

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

ESTIMATED QUANTITIES

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO RESTORE INDUSTRIAL PKWY TO THE PRECONSTRUCTION CONDITIONS OUTSIDE OF THE PAVEMENT REPLACEMENT LIMITS.

ITEM 644 - REMOVAL OF PAVEMENT MARKING	4000 FT

PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLAST METHOD ONLY.

DRAINAGE FOR MAINTAINING TRAFFIC

TEMPORARY DRAINAGE ITEMS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED ON THE MOT PLANS AND CARRIED TO THE GENERAL SUMMARY.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR TEMPORARY DRAINAGE PURPOSES:

ITEM 611 - 15"CONDUIT, TYPE A	94 FT
ITEM 611 - 24"CONDUIT, TYPE A	60 FT

ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

ITEM 614, REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

SHEET NO.	PHASE	ALIGNMENT	STATION FROM	STATION TO	SIDE	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL) EACH	614 BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL) EACH	614 WORK ZONE CENTER LINE, CLASS III, 642 PAINT MILE	614 WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT MILE	614 WORK ZONE STOP LINE, CLASS III, 642 PAINT FT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B SY	622 PORTABLE BARRIER, UNANCHORED FT
17 - 18	1	INDUSTRIAL PKWY	1086+25.00	1097+86.61	LT						937	
17 - 19	1	INDUSTRIAL PKWY	1086+25.00	1109+00.00	LT			0.43				
17 - 19	1	INDUSTRIAL PKWY	1086+25.00	1109+00.00	LT				0.43			
17 - 18	1	INDUSTRIAL PKWY	1086+25.00	1097+86.61	LT				0.22			
18 - 19	1	INDUSTRIAL PKWY	1098+03.98	1109+00.00	LT						910	
18 - 19	1	INDUSTRIAL PKWY	1098+10.87	1109+00.00	LT				0.21			
18	1	EX MITCHELL-DEWITT RD	31+54.27	31+57.57	RT					13		
17 - 19	1	INDUSTRIAL PKWY	1092+25.69	1103+04.27	RT	2	22					1080
22	1A	EX MITCHELL-DEWITT RD	24+65.00	24+89.00	LT						32	
23 - 24	2	INDUSTRIAL PKWY	1086+25.00	1096+84.46	RT						829	
23 - 25	2	INDUSTRIAL PKWY	1086+25.00	1109+00.00	RT			0.44				
23 - 24	2	INDUSTRIAL PKWY	1086+25.00	1096+84.46	RT				0.21			
23 - 25	2	INDUSTRIAL PKWY	1086+25.00	1109+00.00	RT				0.43			
24 - 25	2	INDUSTRIAL PKWY	1098+82.96	1109+00.00	RT						703	
24 - 25	2	INDUSTRIAL PKWY	1098+82.96	1109+00.00	RT				0.19			
24	2	MITCHELL-DEWITT RD	30+11.62	30+21.89	RT					19		
23 - 25	2-Jan	INDUSTRIAL PKWY	1092+25.69	1103+04.27	LT	2	22					1080
TOTALS CARRIED TO GENERAL SUMMARY						4	44	0.87	1.69	32	3411	2160

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MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 14 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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1

R11-3A-30
TYPE 3 BARRICADE

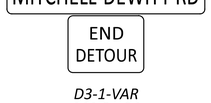
2

R11-2-30
TYPE 3 BARRICADE

3

D3-1-VAR
W20-2-36

4



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M4-8a-24

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W20-1-36

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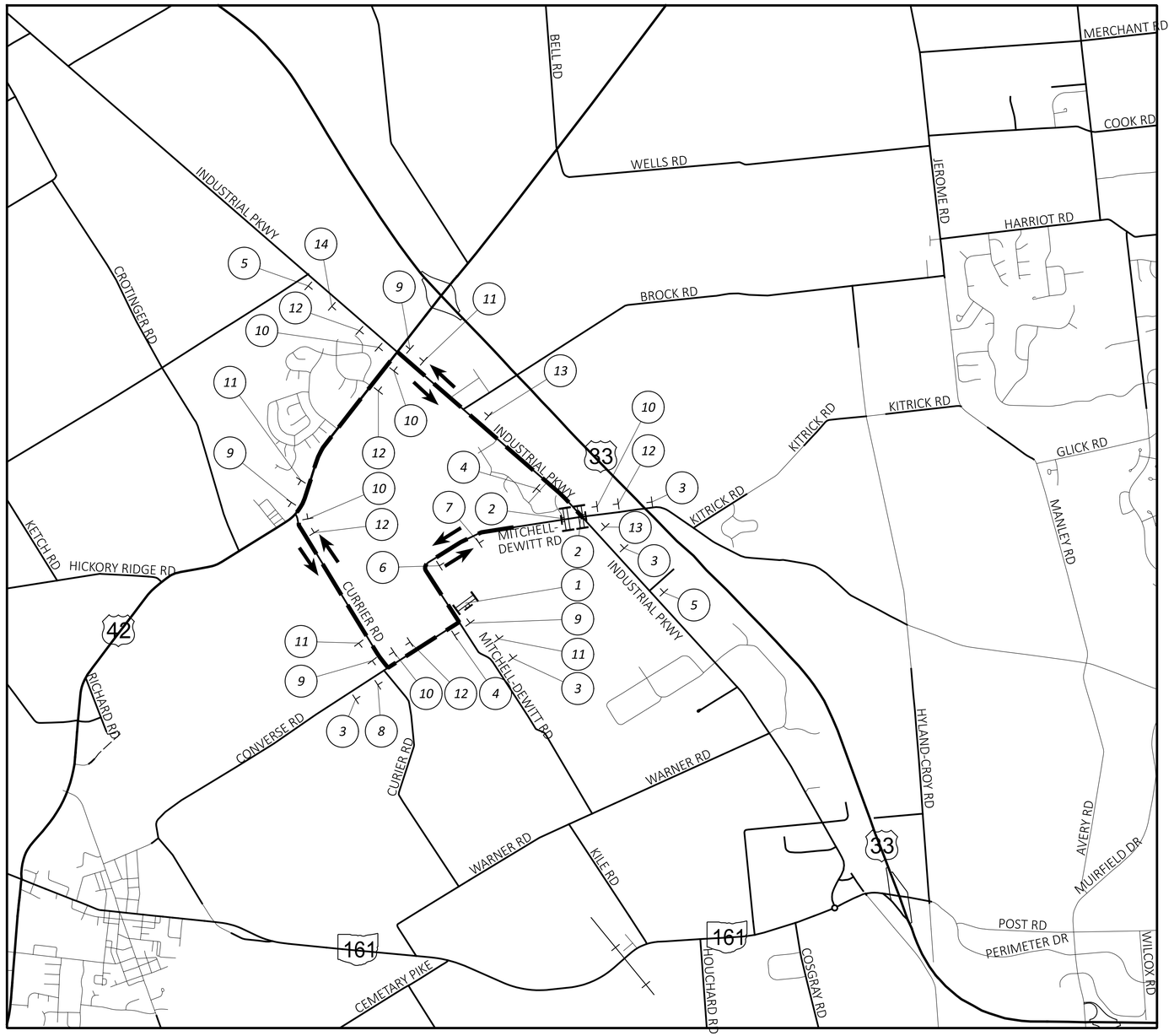
W20-3-36
W16-2P-24



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W16-2P-24

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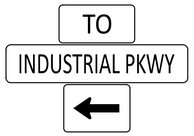

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D3-1-48
M6-1L-21

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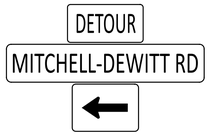

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D3-1-VAR
M6-1L-21

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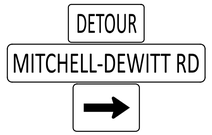

M4-8-24
D3-1-VAR
M6-1R-21

11

M4-8-24
D3-1-VAR
M5-1L-21

12

M4-8-24
D3-1-VAR
M5-1R-21

13

M4-8-24
D3-1-48
M6-3-21

14

W20-3-36
D3-1-VAR
M3-4-24

LEGEND

DETOUR ROUTE
TYPE 3 BARRICADE
DIRECTION OF TRAVEL

DETOUR PLAN
PHASE 1

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 15 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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1

R11-3A-30
M4-10R-48
TYPE 3 BARRICADE

2

R11-3A-30
M4-10R-48
TYPE 3 BARRICADE

3

R11-2-30
TYPE 3 BARRICADE

4

D3-1-VAR
W20-2-36

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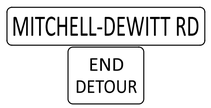

D3-1-VAR
M4-8a-24

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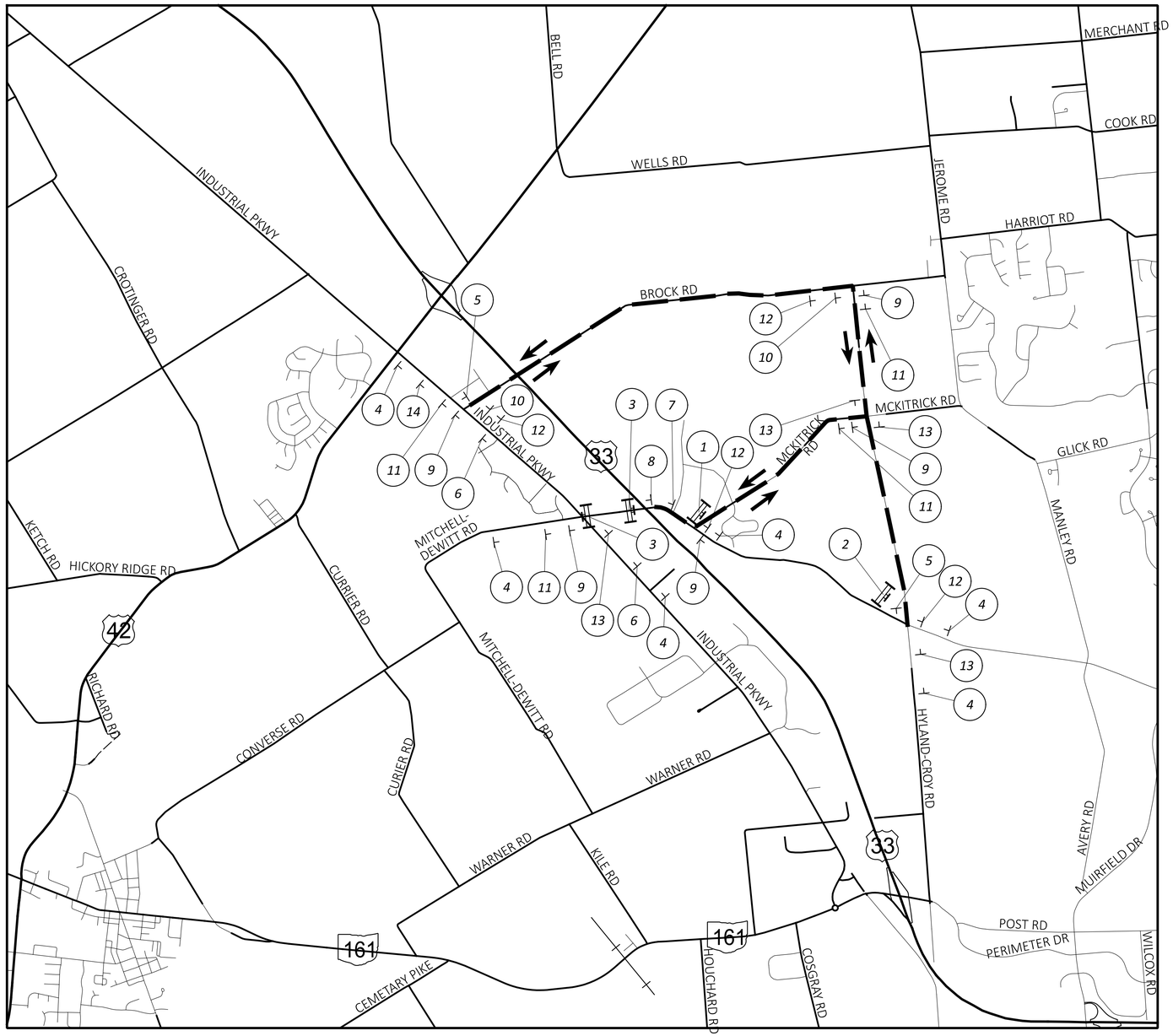
W20-1-36



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W16-2P-24

8

W20-3-36
W16-2P-24

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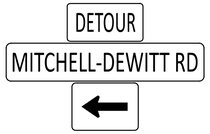

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M6-1L-21

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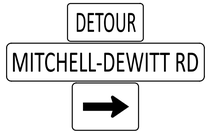

M4-8-24
D3-1-VAR
M6-1R-21

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M4-8-24
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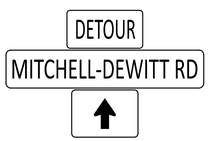
D3-1-VAR
M5-1R-21

13



M4-8-24
D3-1-48
M6-3-21

14

W20-3-36
D3-1-VAR
M3-4-24

LEGEND

DETOUR ROUTE
TYPE 3 BARRICADE
DIRECTION OF TRAVEL

DETOUR PLAN
PHASE 2

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER	LZS
REVIEWER	KAM 06/02/23
PROJECT ID	2022.01156
SHEET	16
TOTAL	131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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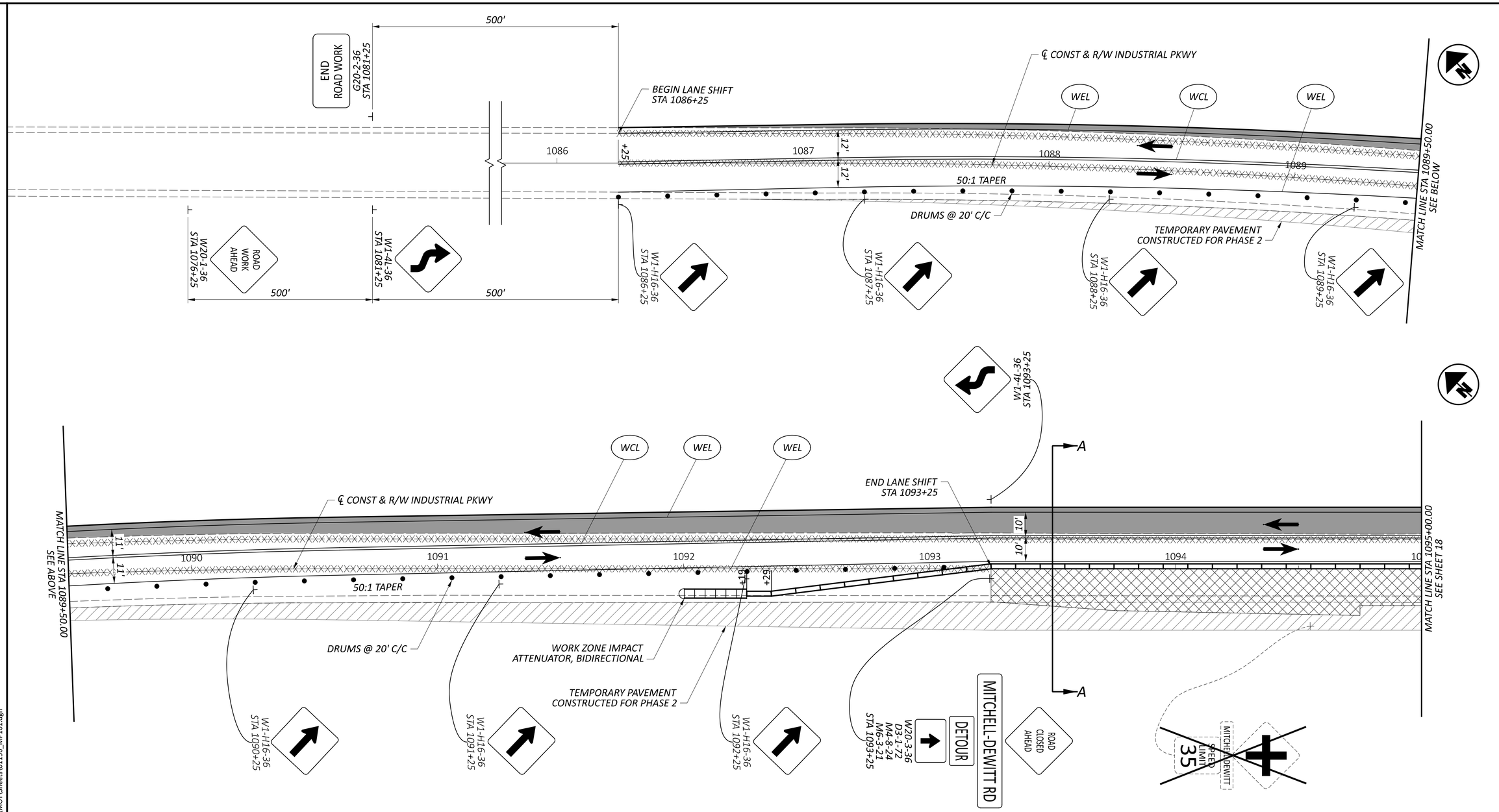

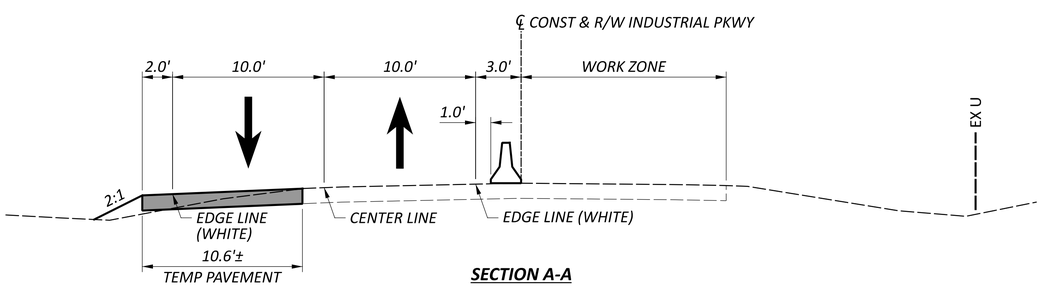

SECTION A-A

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
- EX SIGN TO REMAIN
- PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET 0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 1
INDUSTRIAL PKWY - STA. 1084+00.00 TO STA 1095+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 17 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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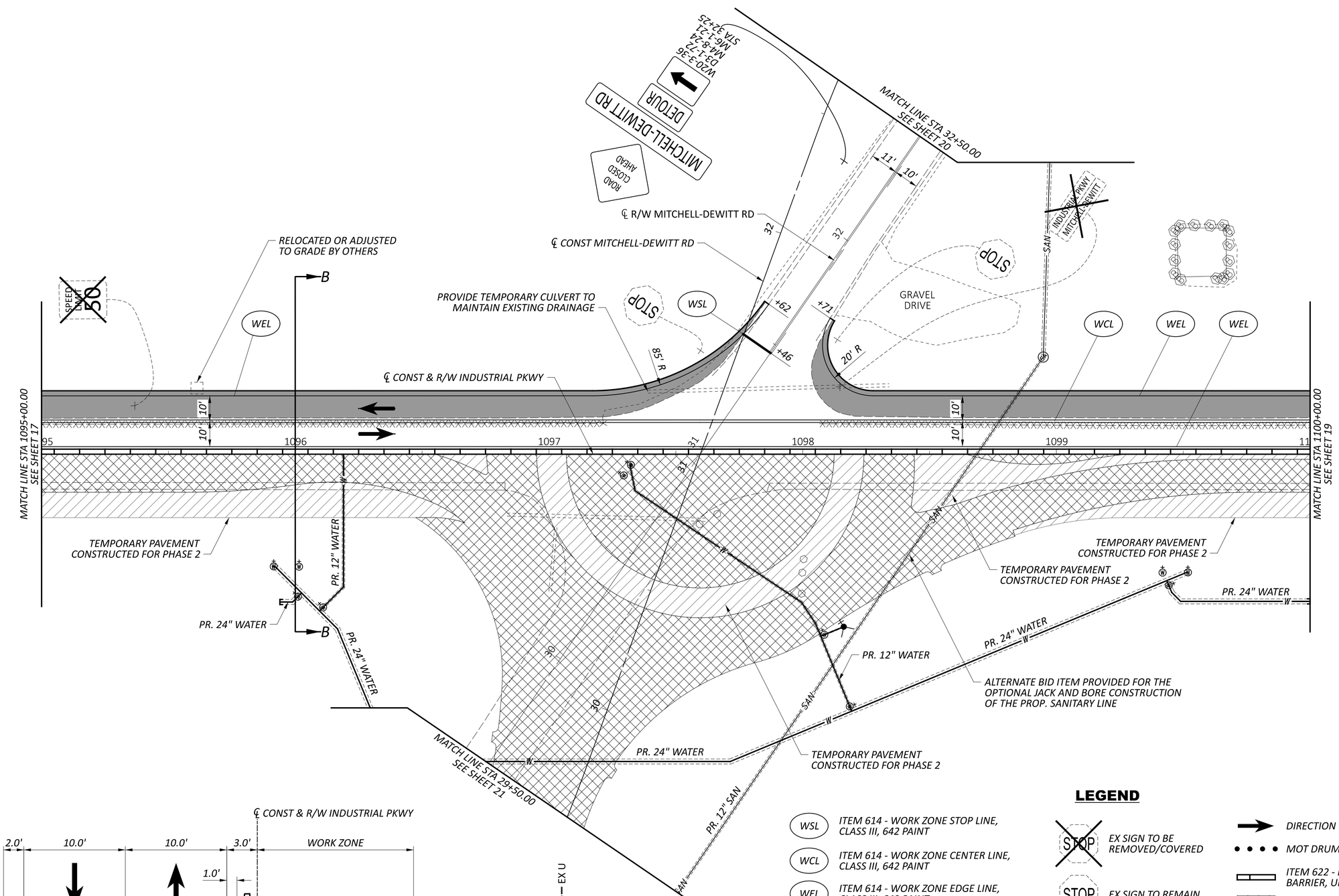

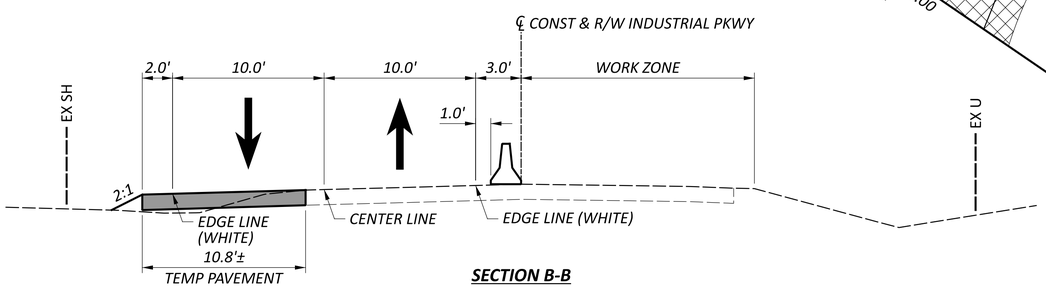

SECTION B-B

LEGEND

WSL	ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
WCL	ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
WEL	ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
STOP	EX SIGN TO BE REMOVED/COVERED
STOP	EX SIGN TO REMAIN
STOP	PROPOSED MOT SIGN
	DIRECTION OF TRAFFIC
	MOT DRUMS
	ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
	WORK AREA
	ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
	TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 1
INDUSTRIAL PKWY - STA. 1095+00.00 TO STA 1100+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 18 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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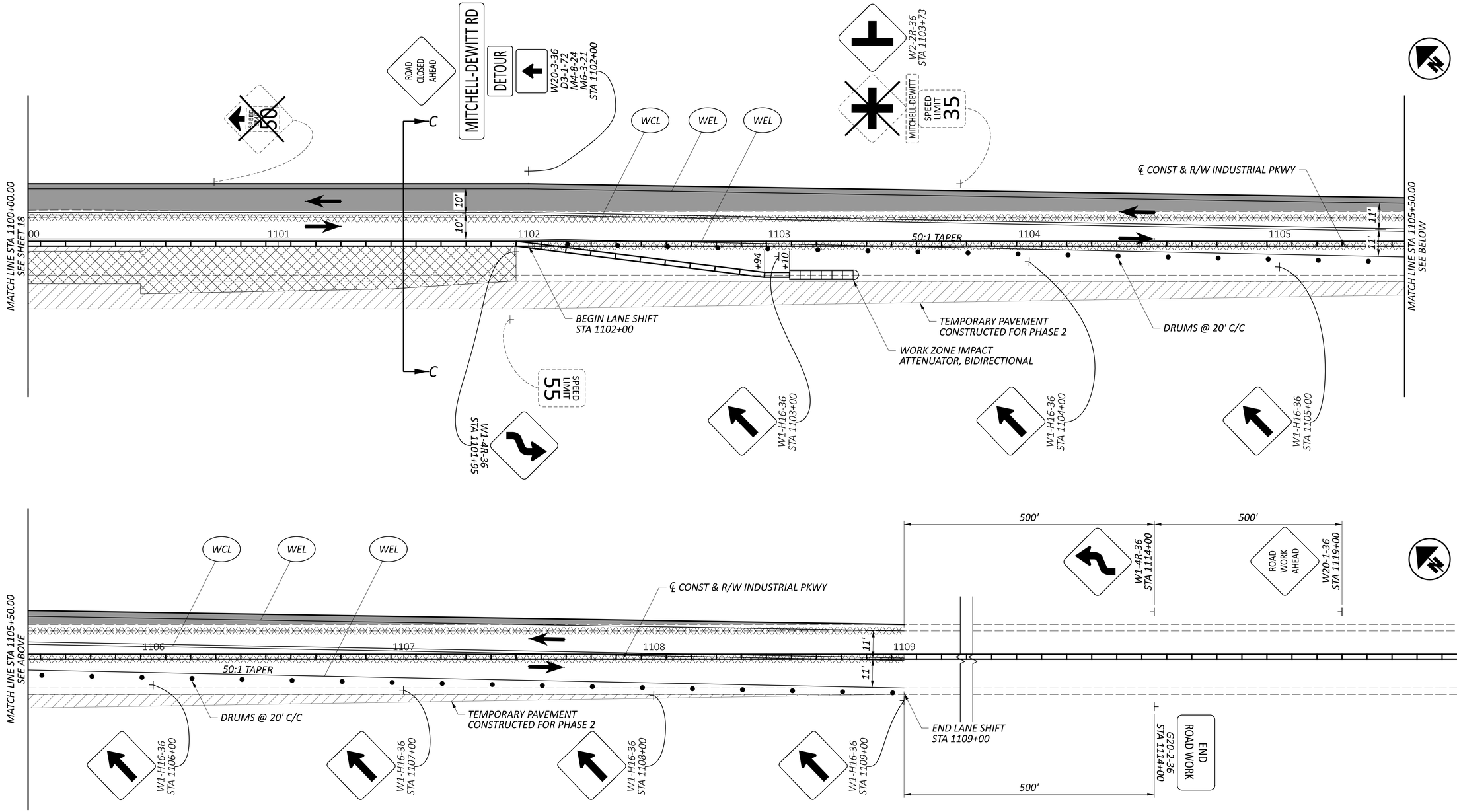
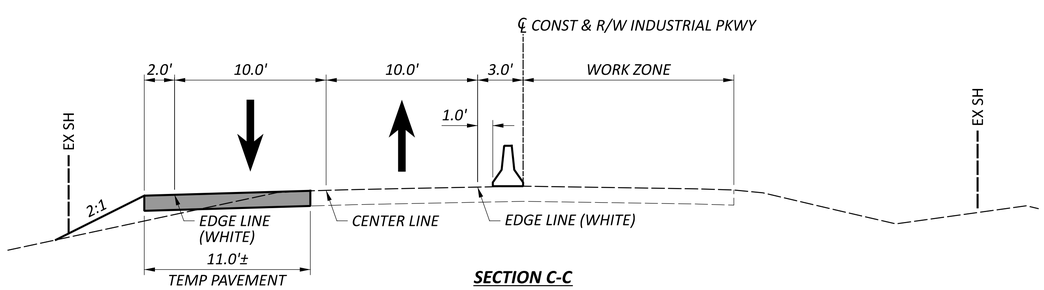




SECTION C-C

LEGEND

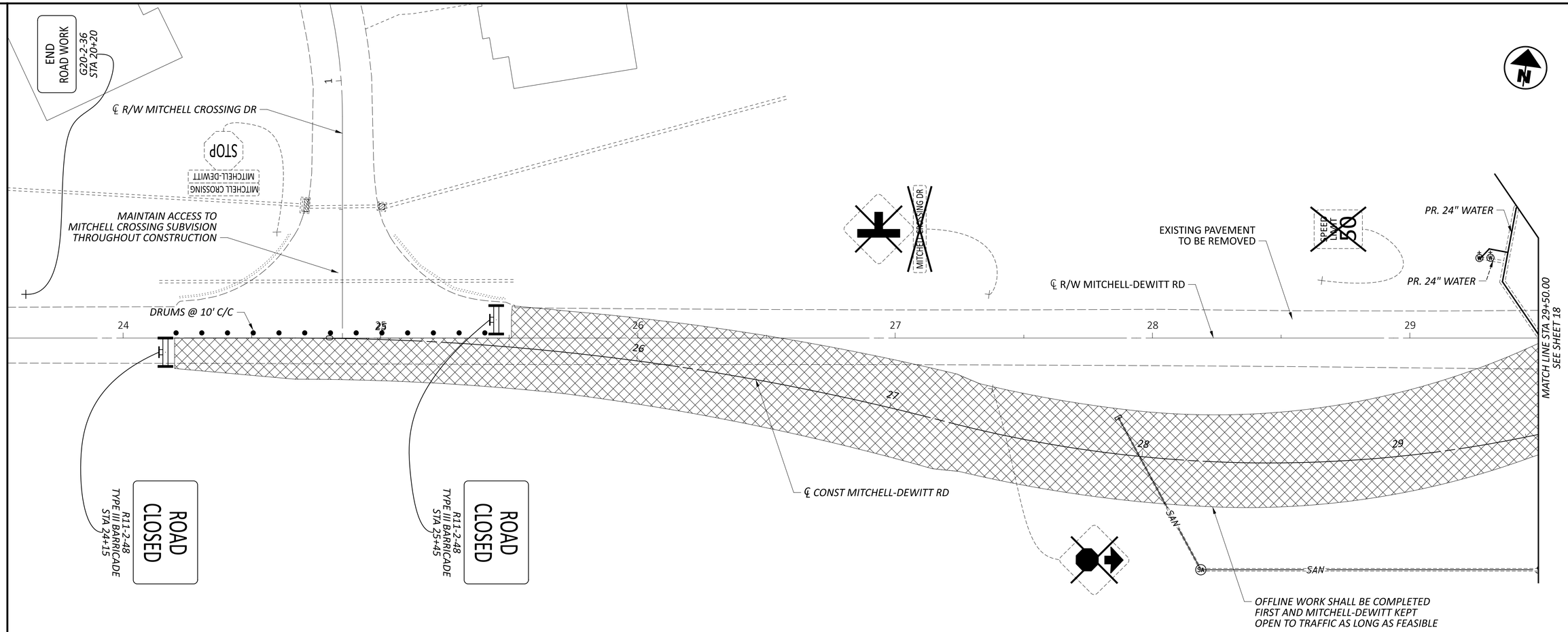
- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
- EX SIGN TO REMAIN
- PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET 0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 1
INDUSTRIAL PKWY - STA. 1100+00.00 TO STA 1111+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 19 TOTAL 131



HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
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- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

MAINTENANCE OF TRAFFIC - PHASE 1
MITCHELL-DEWITT RD - STA. 24+00.00 TO STA 29+50.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 20 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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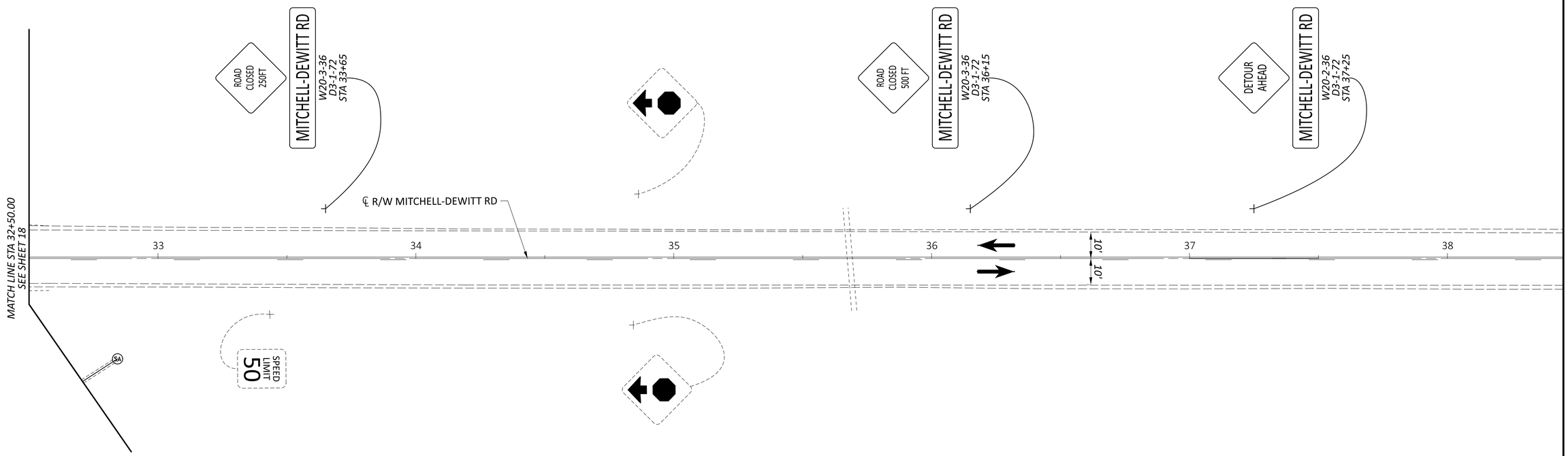

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
- EX SIGN TO REMAIN
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- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 1
MITCHELL-DEWITT RD - STA. 32+50.00 TO STA 38+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 21 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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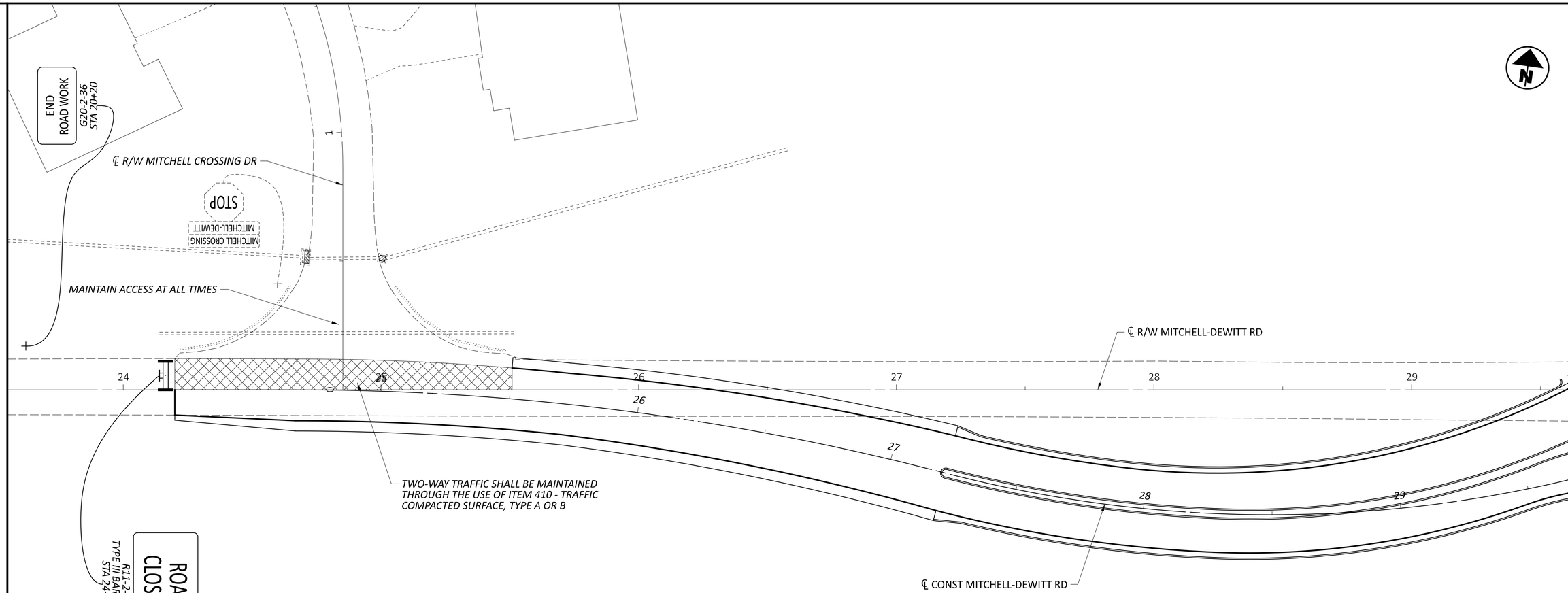

HORIZONTAL SCALE IN FEET
0 10 20 40

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
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- PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

MAINTENANCE OF TRAFFIC - PHASE 1A
MITCHELL-DEWITT RD - STA. 24+00.00 TO STA 29+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 22 | TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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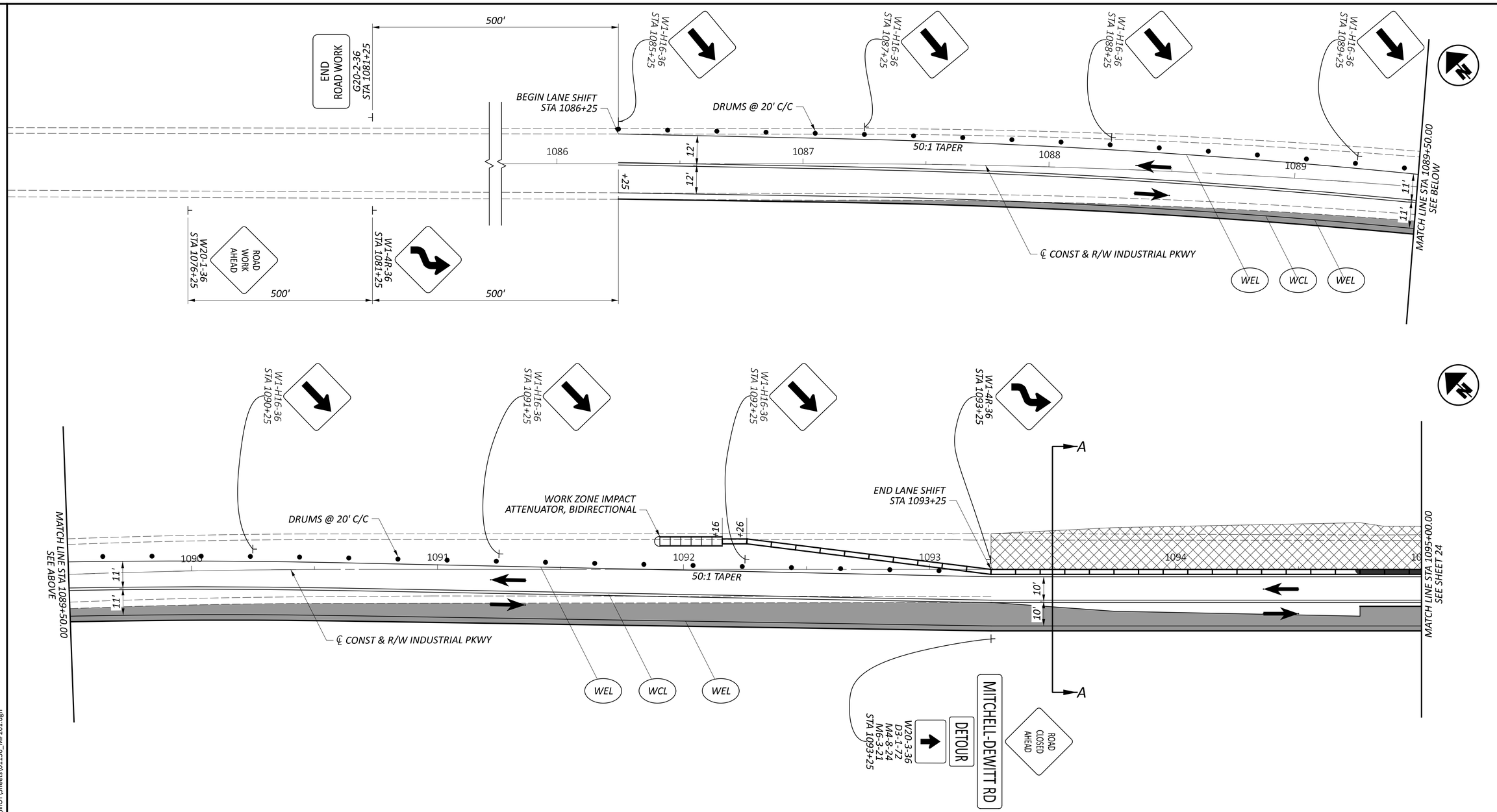

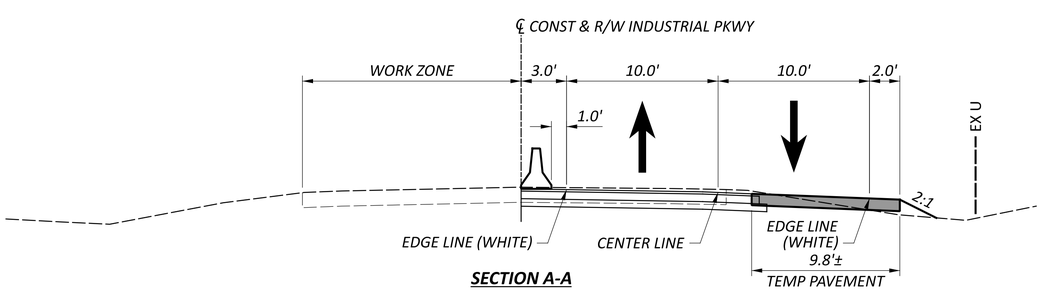

SECTION A-A

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
- EX SIGN TO REMAIN
- PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET 0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 2
INDUSTRIAL PKWY - STA. 1084+00.00 TO STA 1095+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 23 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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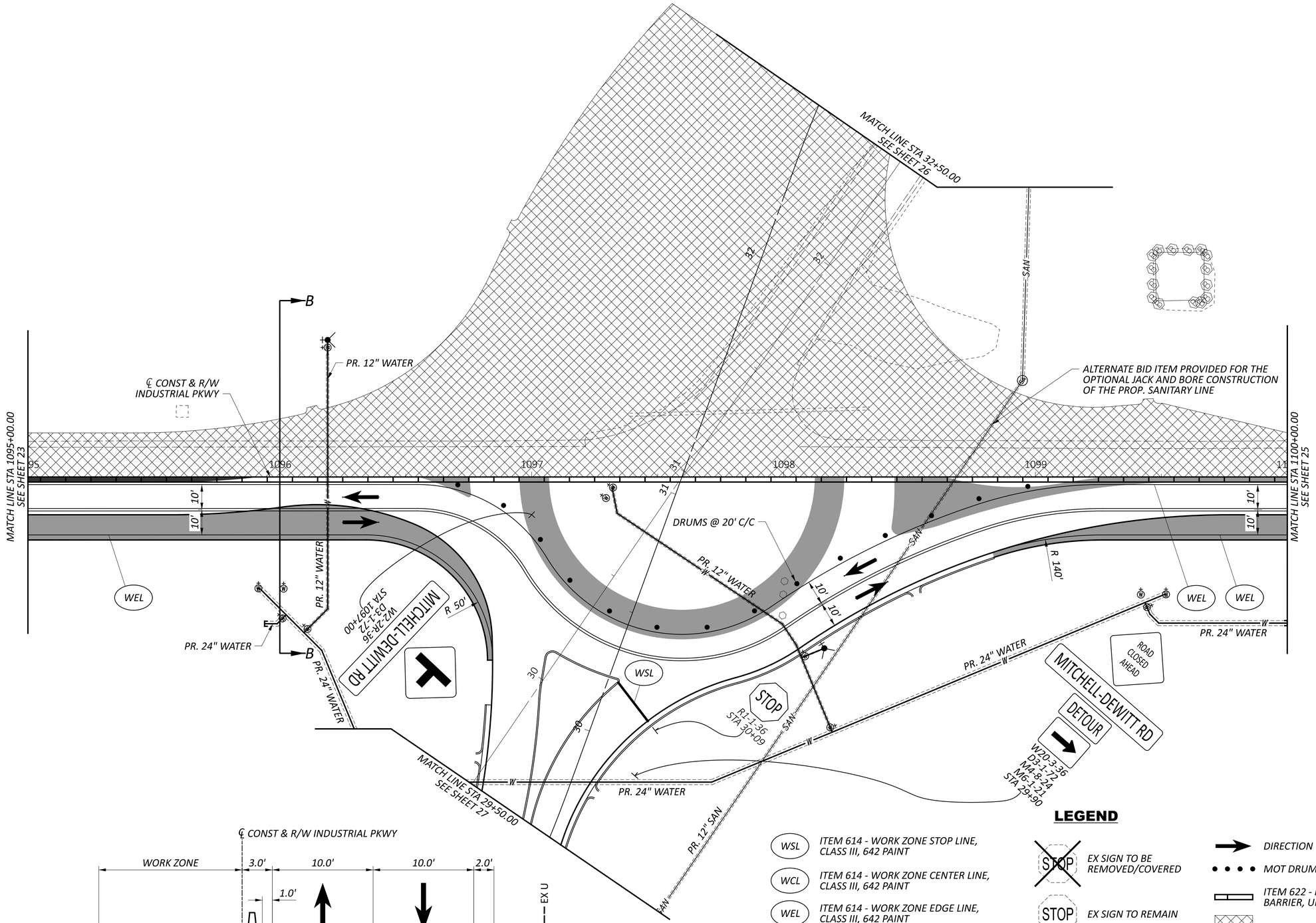

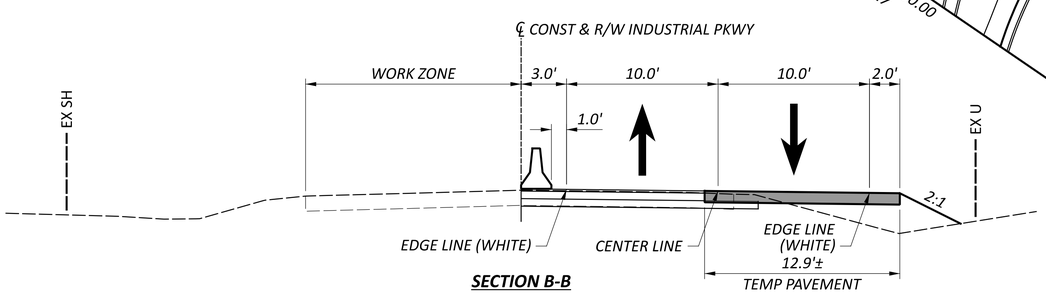

SECTION B-B

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- EX SIGN TO BE REMOVED/COVERED
- EX SIGN TO REMAIN
- PROPOSED MOT SIGN
- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B
- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 2
INDUSTRIAL PKWY - STA. 1095+00.00 TO STA 1100+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 24 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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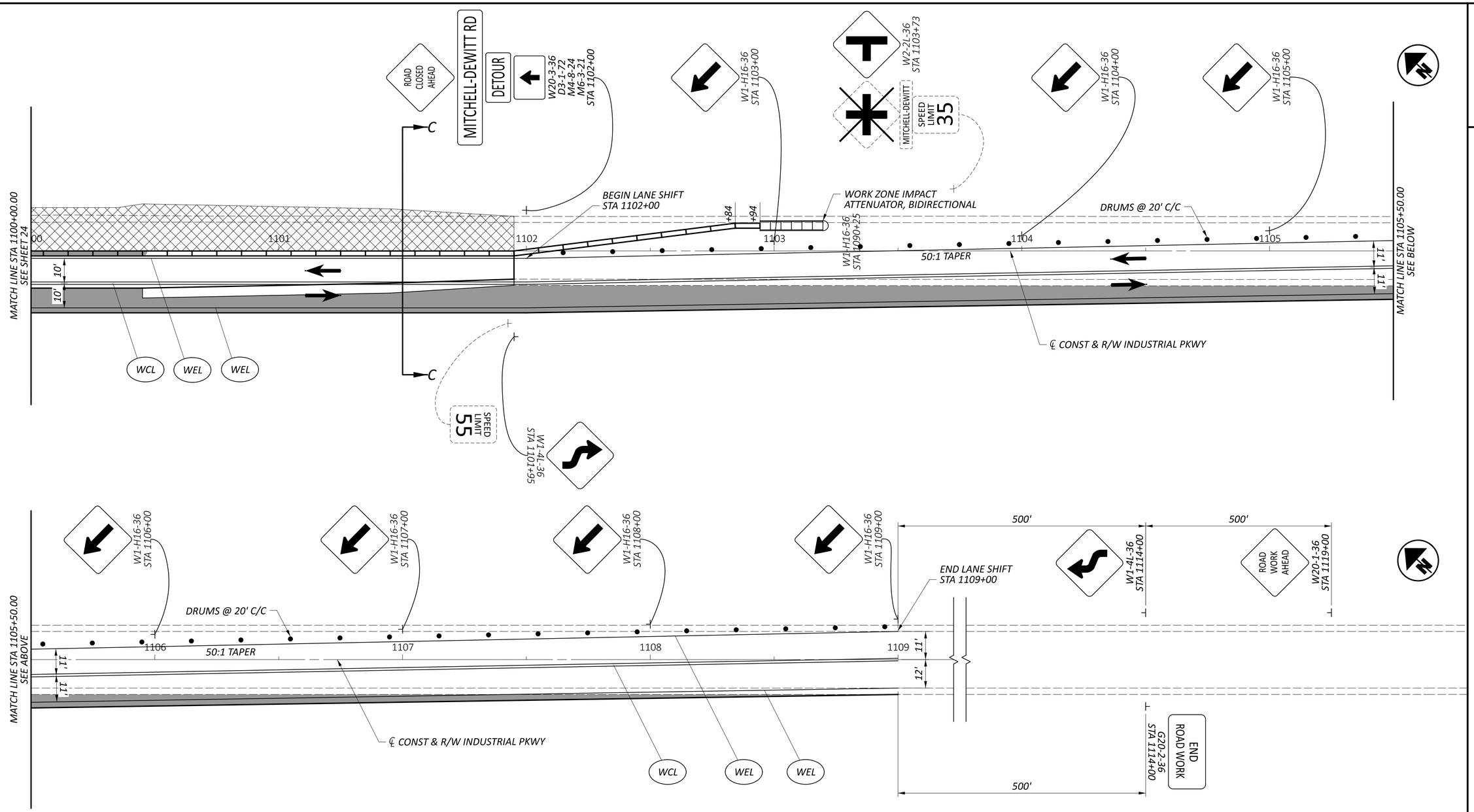

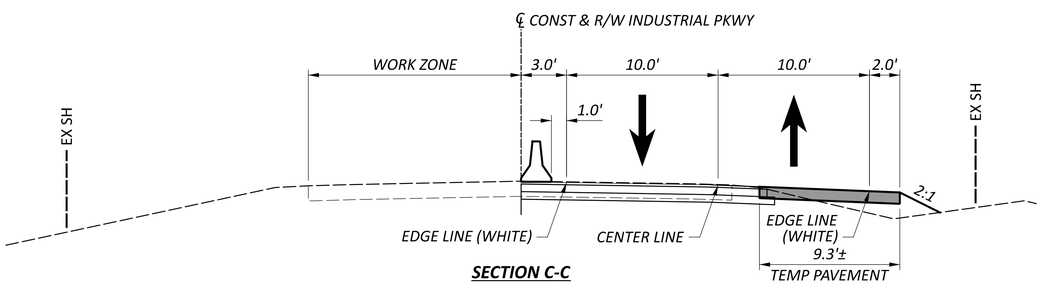

SECTION C-C

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
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- TEMPORARY PAVEMENT CONSTRUCTION FOR FUTURE PHASE

HORIZONTAL SCALE IN FEET 0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 2
INDUSTRIAL PKWY - STA. 1100+00.00 TO STA 1111+00.00

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: LZS

REVIEWER: KAM 06/02/23

PROJECT ID: 2022.01156

SHEET 25 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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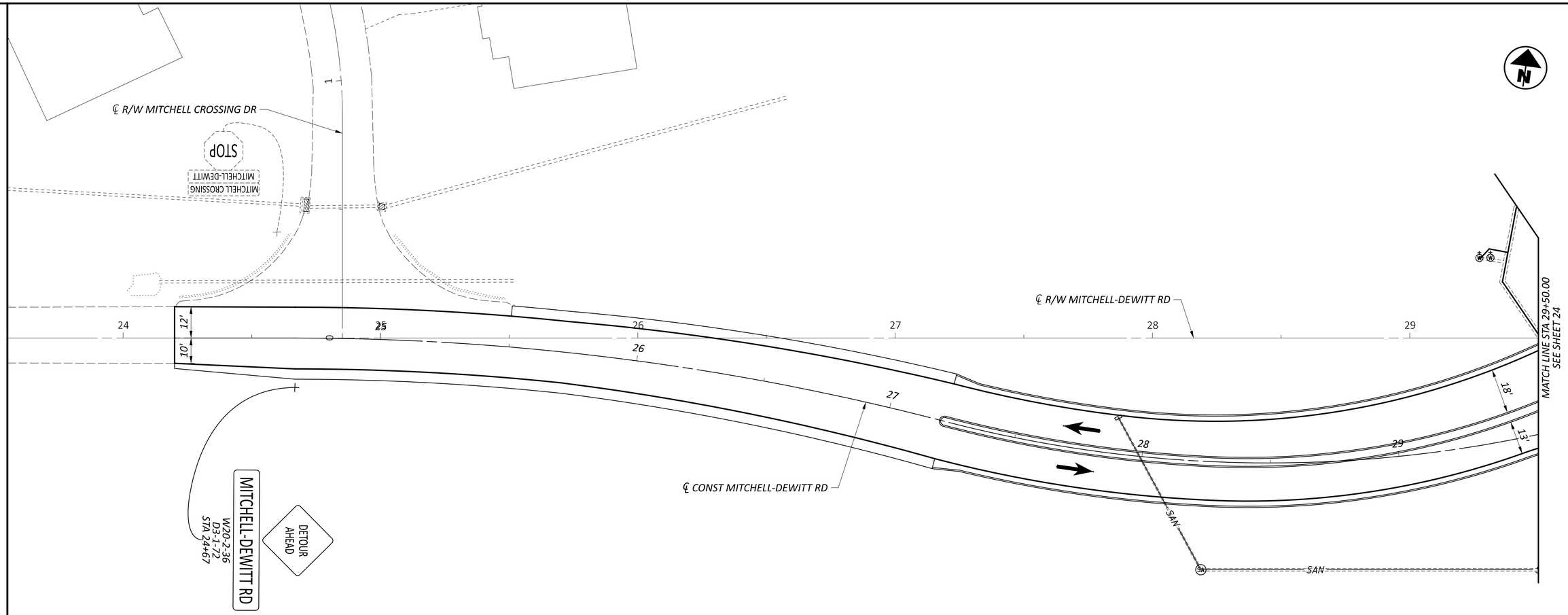

HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 2
MITCHELL-DEWITT RD - STA. 24+00.00 TO STA 29+50.00

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 26 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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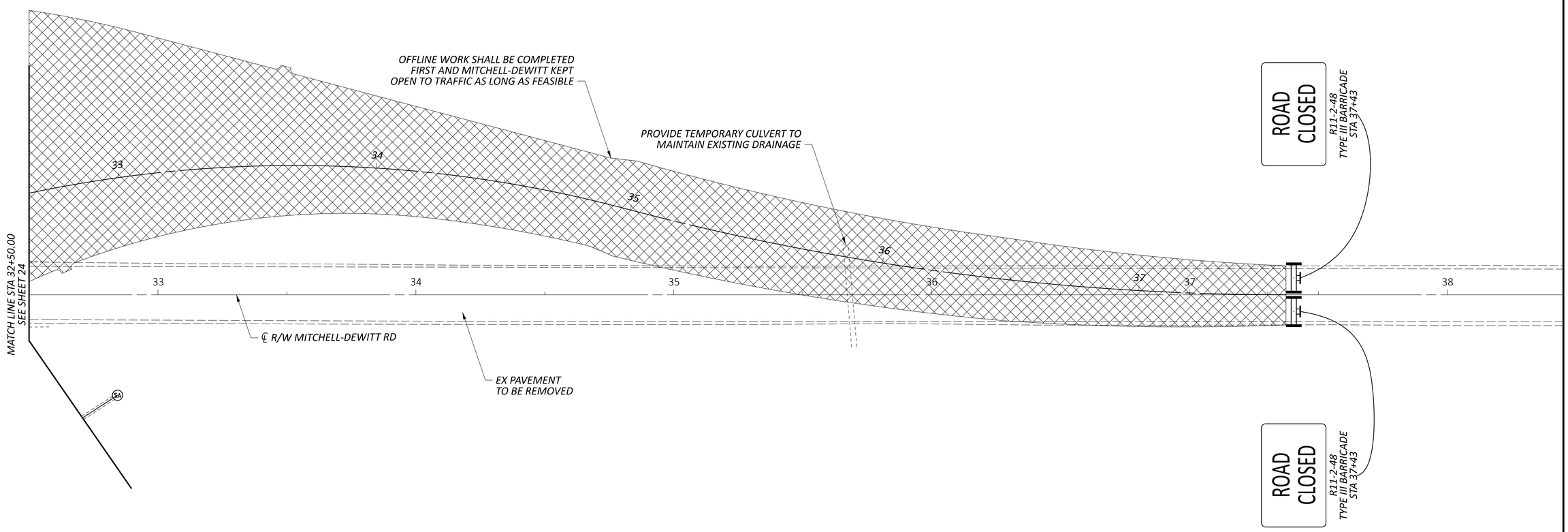

LEGEND

- WSL — ITEM 614 - WORK ZONE STOP LINE, CLASS III, 642 PAINT
- WCL — ITEM 614 - WORK ZONE CENTER LINE, CLASS III, 642 PAINT
- WEL — ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 642 PAINT
- STOP — EX SIGN TO BE REMOVED/COVERED
- STOP — EX SIGN TO REMAIN
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- DIRECTION OF TRAFFIC
- MOT DRUMS
- ITEM 622 - PORTABLE CONCRETE BARRIER, UNACHORED
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HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC - PHASE 2
MITCHELL-DEWITT RD - STA. 32+50.00 TO STA 38+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 27 TOTAL 131

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
					10	31	32	33	34	87	88	OFFICE CALCS							
																		ROADWAY	
												LS		201	11000	LS		CLEARING AND GRUBBING	10
						6,135								202	23000	6,135	SY	PAVEMENT REMOVED	
						240								202	35100	240	FT	PIPE REMOVED, 24" AND UNDER	
						3								202	98100	3	EACH	REMOVAL MISC.: METAL T-POSTS	
												7,352		203	10000	7,352	CY	EXCAVATION	
												3,221		203	20000	3,221	CY	EMBANKMENT	
									553					203	98100	553	SY	ROADWAY, MISC.: GRASS PAVERS	10
							10,862							204	10000	10,862	SY	SUBGRADE COMPACTION	
							3,619							204	13000	3,619	CY	EXCAVATION OF SUBGRADE	
							3,619							204	30010	3,619	CY	GRANULAR MATERIAL, TYPE B	
							6							204	45000	6	HOUR	PROOF ROLLING	10
							10,862							204	50000	10,862	SY	GEOTEXTILE FABRIC	
																		EROSION CONTROL	
										3	4			601	11000	7	SY	RIPRAP, TYPE D	
						18			32					601	21050	50	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					5					4	2			601	32200	11	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
					2									659	00100	2	EACH	SOIL ANALYSIS TEST	
					1,390									659	00300	1,390	CY	TOPSOIL	
					12,519									659	10000	12,519	SY	SEEDING AND MULCHING	
					626									659	14000	626	SY	REPAIR SEEDING AND MULCHING	
					626									659	15000	626	SY	INTER-SEEDING	
					1.75									659	20000	1.75	TON	COMMERCIAL FERTILIZER	
					2.59									659	31000	2.59	ACRE	LIME	
					69									659	35000	69	MGAL	WATER	
									343					660	20000	343	SY	SODDING REINFORCED	
									717					670	00700	717	SY	DITCH EROSION PROTECTION	
												LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
												LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
												LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
												45,000		832	30000	45,000	EACH	EROSION CONTROL	
																		DRAINAGE	
									0.86	0.5	0.7			602	20000	2.06	CY	CONCRETE MASONRY	
									3,403					605	06000	3,403	FT	4" BASE PIPE UNDERDRAINS	
									199					611	00410	199	FT	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	
					50									611	00900	50	FT	6" CONDUIT, TYPE B	
					50									611	01400	50	FT	6" CONDUIT, TYPE E	
					50									611	01500	50	FT	6" CONDUIT, TYPE F	
										110				611	05700	110	FT	15" CONDUIT, TYPE A, 706.02	
									35					611	10900	35	FT	24" CONDUIT, TYPE D, 706.02	
											72			611	52300	72	FT	19" X 30" CONDUIT, TYPE A, 706.04	
									16					611	99710	16	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
							1,870							301	56000	1,870	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
							1,699	7						304	20000	1,706	CY	AGGREGATE BASE	
							917							407	10000	917	GAL	TACK COAT (0.055 GAL/SY)	
							289							441	70000	289	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
							406							441	70300	406	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
								15						452	10010	15	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
								56						452	13010	56	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
							403							452	13011	403	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN	11
						2,172								609	12000	2,172	FT	COMBINATION CURB AND GUTTER, TYPE 2	
						388								609	18000	388	FT	COMBINATION CURB AND GUTTER, TYPE 3	
						2,910								609	26000	2,910	FT	CURB, TYPE 6	
						405								609	31000	405	FT	COMBINATION CURB AND GUTTER, TYPE 9	
						94								609	33000	94	FT	CURB, TYPE 10	
								1,618						609	54000	1,618	SY	6" CONCRETE TRAFFIC ISLAND	
						72								609	98000	72	FT	CURB, MISC.: COMBINATION CURB AND GUTTER TURNOUT	10

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:06:40 PM USER: lstutler
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GENERAL SUMMARY

DESIGN AGENCY
MIDWEST STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 28 TOTAL 131

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
									89	92	110	OFFICE CALCS							
																		SANITARY SEWER	
									4					202	58000	4	EACH	MANHOLE REMOVED (SANITARY SEWER)	
									245					SPECIAL	20270000	245	FT	FILL AND PLUG EXISTING CONDUIT 8" (SANITARY SEWER)	11
									149					SPECIAL	20270000	149	FT	FILL AND PLUG EXISTING CONDUIT 12" (SANITARY SEWER)	11
									142					SPECIAL	20270000	142	FT	FILL AND PLUG EXISTING CONDUIT 18" (SANITARY SEWER)	11
									67					611	01800	67	FT	8" CONDUIT, TYPE B (SANITARY SEWER)	
									387					611	04400	387	FT	12" CONDUIT, TYPE B (SANITARY SEWER)	
									93					611	07400	93	FT	18" CONDUIT, TYPE B (SANITARY SEWER)	
									3					611	99574	3	EACH	MANHOLE, NO. 3 (SANITARY SEWER)	
									1					611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE (SANITARY SEWER)	
																		SANITARY SEWER ALTERNATES	
												125		611	96600	125	FT	CONDUIT, BORED OR JACKED, 12" (SANITARY SEWER)	
																		OTHER UTILITIES	
									2					611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE (TRAFFIC)	
									2					SPECIAL	61199700	2	EACH	GAS VALVE BOX ADJUSTED TO GRADE	
																		WATER WORK	
										186				202	35100	186	FT	PIPE REMOVED, 24" AND UNDER	
										2				202	75610	2	EACH	VALVE BOX REMOVED	
										2				638	07800	2	EACH	6" GATE VALVE AND VALVE BOX	
										2				638	08100	2	EACH	12" GATE VALVE AND VALVE BOX	
										2				638	08620	2	EACH	12" INSERTING VALVE AND VALVE BOX	
										2				638	08650	2	EACH	16" INSERTING VALVE AND VALVE BOX	
										2				638	09800	2	EACH	12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX	
										2				638	10200	2	EACH	6" FIRE HYDRANT	
										1				638	10300	1	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE	
										1				638	10480	1	EACH	FIRE HYDRANT REMOVED	
										1				638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE	
										16				SPECIAL	63820418	16	FT	6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (MARYSVILLE)	
										266				SPECIAL	63820424	266	FT	12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (MARYSVILLE)	
										2				SPECIAL	63820682	2	EACH	24" BUTTERFLY VALVE WITH VALVE BOX (MARYSVILLE)	
										2				SPECIAL	63820884	2	EACH	CUT AND PLUG EXISTING 12" WATER LINE	92
										2				SPECIAL	63820886	2	EACH	CUT AND PLUG EXISTING 16" WATER LINE	92
										2				638	98000	2	EACH	WATER WORK, MISC.: 16" X 24" TAPPING SLEEVE AND VALVE BOX (HOT TAP)	
										487				638	98600	487	FT	WATER WORK, MISC.: SPECIAL - 24" WATERMAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (MARYSVILLE)	
																		LIGHTING	
											27			625	00450	27	EACH	CONNECTION, FUSED PULL APART	
											39			625	00480	39	EACH	CONNECTION, UNFUSED PERMANENT	
											12			625	10502	12	EACH	LIGHT POLE (INSTALLATION ONLY)	
											12			625	14100	12	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
											642			625	23200	642	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
											774			625	23400	774	FT	NO. 10 AWG POLE AND BRACKET CABLE	
											1,806			625	24320	1,806	FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	
											184			625	25500	184	FT	CONDUIT, 3", 725.04	
											12			625	26253	12	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	108
											1,830			625	29000	1,830	FT	TRENCH	
											6			625	30706	6	EACH	PULL BOX, 725.08, 24"	
											13			625	32000	13	EACH	GROUND ROD	
											1			625	34001	1	EACH	POWER SERVICE, AS PER PLAN	108
											1,830			625	36010	1,830	FT	UNDERGROUND WARNING/MARKING TAPE	
											LS			625	38000	LS		HIGH VOLTAGE TEST	
											1			625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL	
																			108

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

GENERAL SUMMARY

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:06:42 PM USER: lstutler
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DESIGN AGENCY
MIPLEAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 29 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:06:44 PM USER: lstutler
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SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
						12	13	14	102	103	104	OFFICE CALCS							
																		TRAFFIC CONTROL	
											333			630	02100	333	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
											88			630	03100	88	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
											3			630	08600	3	EACH	SIGN POST REFLECTOR (RED)	
											3			630	79500	3	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
											162			630	80100	162	SF	SIGN, FLAT SHEET	
											18			630	84900	18	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
											6			630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
											17			630	86002	17	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
									0.91	0.44				644	00100	1.35	MILE	EDGE LINE, 4"	
									0.52					644	00300	0.52	MILE	CENTER LINE	
									174					644	00400	174	FT	CHANNELIZING LINE, 8"	
										66				644	00700	66	FT	TRANSVERSE/DIAGONAL LINE (YELLOW)	
									17					644	00720	17	FT	CHEVRON MARKING	
										4				644	01300	4	EACH	LANE ARROW	
									391					644	01520	391	FT	DOTTED LINE, 12"	
										102				644	20800	102	FT	YIELD LINE	
																		MAINTENANCE OF TRAFFIC	
							94							611	05700	94	FT	15" CONDUIT, TYPE A	
							60							611	10200	60	FT	24" CONDUIT, TYPE A	
							120							614	11110	120	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
								4						614	12384	4	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	13
							LS							614	12420	LS		DETOUR SIGNING	
							5							614	12500	5	EACH	REPLACEMENT SIGN	
							5							614	12600	5	EACH	REPLACEMENT DRUM	
								44						614	13310	44	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
								0.87						614	21550	0.87	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
								1.69						614	22350	1.69	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	
								32						614	26610	32	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
						LS								615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
								3,411						615	25000	3,411	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
							15							616	10000	15	MGAL	WATER	
								2,160						622	41100	2,160	FT	PORTABLE BARRIER, UNANCHORED	
							4,000							644	30000	4,000	FT	REMOVAL OF PAVEMENT MARKING	
																		INCIDENTALS	
												LS		614	11000	LS		MAINTAINING TRAFFIC	
												5		619	16010	5	MNTH	FIELD OFFICE, TYPE B	
												LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
												LS		624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 30 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

ROADWAY SUBSUMMARY

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	202 PAVEMENT REMOVED (SY)	202 PIPE REMOVED, 24" AND UNDER (FT)	202 REMOVAL MISC.: METAL T-POSTS (EACH)	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT (SY)	609 COMBINATION CURB AND GUTTER, TYPE 2 (FT)	609 COMBINATION CURB AND GUTTER, TYPE 3 (FT)	609 CURB, TYPE 6 (FT)	609 COMBINATION CURB AND GUTTER, TYPE 9 (FT)	609 CURB, TYPE 10 (FT)	609 CURB, MISC.: COMBINATION CURB AND GUTTER TURNOUT (FT)
RD-1	37 & 40	EX MITCHELL-DEWITT RD	30+19.69	30+42.42	LT		26								
RD-2	37 & 40	INDUSTRIAL PKWY	1096+83.50	1097+62.20	RT		79								
RD-3	37 & 40	INDUSTRIAL PKWY	1097+39.01	1098+34.02	LT		95								
RD-4	38	EX MITCHELL-DEWITT RD	35+66.65	35+69.98	LT/RT		40								
RP-1	36 - 38 & 40	EX MITCHELL-DEWITT RD	24+20.00	37+37.43	CL	3352									
RP-2	37 & 39 - 40	INDUSTRIAL PKWY	1093+25.00	1097+43.98	CL	1417									
RP-3	37 & 40 - 41	INDUSTRIAL PKWY	1097+75.16	1101+95.00	CL	1366									
RR-1	37 & 40	MITCHELL-DEWITT RD	30+77.19		RT			3							
C-1	36 - 37 & 40	MITCHELL-DEWITT RD	27+21.93	29+79.00	LT				2	240					8
C-2	36 - 37 & 40	MITCHELL-DEWITT RD	27+19.93	30+23.21	LT/RT							643			
C-3	36 - 37	MITCHELL-DEWITT RD	27+21.93	29+81.72	RT				2	260					8
C-4	37 & 40	REF LINE NW / INDUSTRIAL PKWY	101+80.16	1095+92.31	LT					153					
C-5	37 & 40	REF LINE NW	101+97.68	103+35.73	LT						151				
C-6	37 & 40	REF LINE SW	400+34.19	401+89.06	RT				2	146					8
C-7	37 & 40	REF LINE CC	90+00.00	95+18.36	RT								405		
C-8	37 & 40	REF LINE CC	90+00.00	95+18.36	RT							331			
C-9	37 & 40	REF LINE BI-NE	1+00.00	4+73.68	LT							365			
C-10	37 - 38 & 40	MITCHELL-DEWITT RD	31+90.81	34+99.93	LT/RT							684			
C-11	37 & 40	MITCHELL-DEWITT RD	31+81.69	33+68.18	LT				2	203					8
C-12	37 - 38	MITCHELL-DEWITT RD	33+68.18	34+97.93	LT					137					
C-13	37 - 38	MITCHELL-DEWITT RD	32+76.95	34+97.93	RT					213					
C-14	40, 39 - 40	INDUSTRIAL PKWY	1094+75.00	1096+17.21	LT				2	135					8
C-15	40, 39 - 40	INDUSTRIAL PKWY	1094+73.00	1096+75.38	LT/RT							443			
C-16	37, 39 - 40	INDUSTRIAL PKWY	1094+75.00	1095+92.31	RT				2	110					8
C-17	40	REF LINE NE	200+75.84	201+93.96	LT				2	106					8
C-18	40	REF LINE NE	200+80.14	201+79.16	LT						88				
C-19	37 & 40	REF LINE BI-SE	1+04.43	2+93.52	LT									94	
C-20	37, 40 - 41	INDUSTRIAL PKWY	1098+43.92	1100+47.00	LT/RT							444			
C-21	40 - 41	INDUSTRIAL PKWY	1098+55.49	1100+45.00	RT					193					
C-22	37 & 40	REF LINE SE	300+08.95	302+04.06	RT				2	178					8
C-23	37 & 40	REF LINE SE	300+27.58	301+80.50	RT						149				
C-24	40 - 41	INDUSTRIAL PKWY	1099+40.94	1100+45.00	LT				2	98					8
TOTALS CARRIED TO GENERAL SUMMARY						6135	240	3	18	2172	388	2910	405	94	72

DESIGN AGENCY
AMPHEUN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 04/28/23

PROJECT ID
2022.01156

SHEET 31 TOTAL 129

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:06:45 PM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

PAVEMENT SUBSUMMARY

ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	CADD AREAS	204 SUBGRADE COMPACTION	204 EXCAVATION OF SUBGRADE 12"	204 GRANULAR MATERIAL, TYPE B 12"	204 PROOF ROLLING	204 GEOTEXTILE FABRIC	301 ASPHALT CONCRETE BASE, PG64-22, (449) 8"	304 AGGREGATE BASE 6"	407 TACK COAT (0.055 GAL/SY)	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 1.25"	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) 1.75"	452 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN
				FT	FT	SF	SF	SY	CY	CY	HOUR	SY	CY	CY	GAL	CY	CY	SY
	PAVEMENT																	
MITCHELL-DEWITT RD	24+20.00	27+21.93	CL				9486.68								116	37	51	
							9722.79						240					
							9958.96							184				
							10203.94	1134	378	378	0.57	1134						
MITCHELL-DEWITT RD	27+21.93	30+25.40	LT				5143.62						127		63	20	28	
							6594.73							122				
							7223.05	803	268	268	0.40	803						
MITCHELL-DEWITT RD	27+21.93	30+25.40	RT				4464.19						110		55	17	24	
							5846.37							108				
							6512.49	724	241	241	0.36	724						
MITCHELL-DEWITT RD	31+89.83	34+97.93	LT				8638.54						213		106	33	47	
							10679.54							198				
							11778.61	1309	436	436	0.65	1309						
MITCHELL-DEWITT RD	31+89.83	34+97.93	RT				4833.00						119		59	19	26	
							6137.88							114				
							6746.93	750	250	250	0.37	750						
MITCHELL-DEWITT RD	34+97.93	37+57.12	CL				8240.43								101	32	45	
							8499.72						210					
							8763.70							162				
							9026.32	1003	334	334	0.50	1003						
INDUSTRIAL PKWY	1093+25.00	1094+75.00	CL				5143.13								63	20	28	
							5293.22						131					
							5448.05							101				
							5601.56	622	207	207	0.31	622						
INDUSTRIAL PKWY	1094+75.00	1096+77.38	LT				3226.64						80		39	12	17	
							4143.55							77				
							4552.18	506	169	169	0.25	506						
INDUSTRIAL PKWY	1094+75.00	1096+77.38	RT				3120.76						77		38	12	17	
							4305.55							80				
							4722.09	525	175	175	0.26	525						
INDUSTRIAL PKWY	1098+44.01	1100+45.00	LT				5737.05						142		70	22	31	
							7022.31							130				
							7561.54	840	280	280	0.42	840						
INDUSTRIAL PKWY	1098+44.01	1100+45.00	RT				3425.26						85		42	13	19	
							4440.50							82				
							4918.55	547	182	182	0.27	547						
INDUSTRIAL PKWY	1100+45.00	1101+95.00	CL				5140.36								63	20	28	
							5290.38						131					
							5445.21							101				
							5600.13	622	207	207	0.31	622						
REF LINE CC	90+00.00	95+18.36	RT				3628.54											403
							8312.65						205		102	32	45	
							12969.64							240				
							13291.10	1477	492	492	0.74	1477						
TOTALS CARRIED TO GENERAL SUMMARY								10862	3619	3619	6	10862	1870	1699	917	289	406	403

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 32 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:06:46 PM USER: lstuller
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:06:48 PM USER: lstufler
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ALIGNMENT	STATION TO STATION		SIDE	LENGTH (L)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=LxW	CADD AREAS	AGGREGATE BASE 6"	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	6" CONCRETE TRAFFIC ISLAND
								304	452	452	609
				FT	FT	SF	SF	CY	SY	SY	SY
	PAVEMENT (CONTINUED)										
REF LINE NW	102+19.95	103+04.67	LT				271.84			30	
REF LINE NE	201+07.48	201+50.27	LT				61.19			7	
REF LINE SE	300+81.75	301+56.22	RT				167.18			19	
MITCHELL-DEWITT RD	27+20.43	30+22.82	LT/RT				1542.29				171
MITCHELL-DEWITT RD	31+91.31	34+99.43	LT/RT				6591.96				732
REF LINE BI-NE	1+00.00	4+73.20	LT				3784.20				420
INDUSTRIAL PKWY	1094+73.50	1096+74.79	LT/RT				1241.96				138
INDUSTRIAL PKWY	1098+44.51	110+46.50	LT/RT				1244.06				138
REF LINE BI-SE	1+00.00	2+93.01	LT				171.72				19
	DRIVES										
INDUSTRIAL PKWY	1099+50.20	1099+73.71	LT				134.81		15		
				29.58	12.00	354.96		7			
TOTALS CARRIED TO GENERAL SUMMARY								7	15	56	1618

PAVEMENT SUBSUMMARY

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 33 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	203 ROADWAY, MISC.: GRASS PAVERS		601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT		602 CONCRETE MASONRY	605 4" BASE PIPE UNDERDRAINS	611 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET		611 24" CONDUIT, TYPE D, 706.02	611 PRECAST REINFORCED CONCRETE OUTLET	660 SODDING REINFORCED	670 DITCH EROSION PROTECTION			FOR INFORMATION ONLY 4" END CAP	4" X 90° BEND	4" X 45° BEND	4" X 4" TEE
						SY		SY		CY	FT	FT		FT	EACH	SY	SY			EACH	EACH	EACH	EACH
D-1	40	INDUSTRIAL PKWY	1099+49.00	1099+70.00	LT					0.86				35									
E-1	36 - 37	MITCHELL-DEWITT RD	25+52.00	29+83.22	LT												349						
E-2	36 - 37	MITCHELL-DEWITT RD	27+21.93	28+87.58	LT	71																	
E-3	36 - 37	MITCHELL-DEWITT RD	27+21.93	29+74.84	RT	117																	
E-4	37 & 40	INDUSTRIAL PKWY	1097+26.29	1099+66.54	RT											230							
E-5	37, 39 - 40	INDUSTRIAL PKWY	1094+10.00	1096+57.45	RT												242						
E-6	37 - 38	MITCHELL-DEWITT RD	33+27.08	34+97.93	RT	73																	
E-7	37 - 38	MITCHELL-DEWITT RD	33+67.46	34+97.93	LT	62																	
E-8	38	MITCHELL-DEWITT RD	34+87.93	36+40.00	RT												126						
E-9	39 - 40	INDUSTRIAL PKWY	1094+75.00	1096+10.75	LT	60																	
E-10	39 - 40	INDUSTRIAL PKWY	1094+75.00	1096+19.50	RT	64																	
E-11	39	INDUSTRIAL PKWY	1095+00.05	1096+39.95	LT											113							
E-12	40 - 41	INDUSTRIAL PKWY	1098+54.68	1100+45.00	RT	86																	
E-13	41	INDUSTRIAL PKWY	1100+00.00	1100+45.00	LT	20																	
UD-1	36 - 37	MITCHELL-DEWITT RD	24+66.89	29+73.58	RT			2			511	10			1					1	1		
UD-2	36 - 37	MITCHELL-DEWITT RD	25+50.00	29+70.74	LT			2			414	10			1					1	1		
UD-3	37 & 40	REF LINE SW	400+34.19	401+80.94	RT			2			145	12			1					1	1		
UD-4	40 - 41	INDUSTRIAL PKWY	1098+55.69	1101+85.02	RT			2			333	10			1					1	1		
UD-5	40 - 41	INDUSTRIAL PKWY	1099+50.30	1101+85.02	LT			2			236	14			1					1	1		
UD-6	37 & 40	REF LINE SE	300+08.95	301+44.76	RT			2			126	16			1					1	1		
UD-7	37 & 40	REF LINE SE	301+44.76	301+95.94	RT			2			50	23			1					1	1		
UD-8	37 - 38	MITCHELL-DEWITT RD	32+77.10	34+78.30	RT			2			194	14			1					1	1		
UD-9	38	MITCHELL-DEWITT RD	34+97.93	36+19.19	RT			2			123	10			1					1	1		
UD-10	38	MITCHELL-DEWITT RD	34+97.93	36+47.93	LT			2			147	10			1					1	1		
UD-11	37 - 38	MITCHELL-DEWITT RD	33+68.36	34+80.03	LT			2			119	12			1					1	1		
UD-12	37 & 40	REF LINE NE	201+93.96	203+96.00	LT			2			203	10			1					1	1		
UD-13	37 & 40	REF LINE NE	200+75.84	201+86.04	LT			2			105	11			1					1	1		
UD-14	39 - 40	INDUSTRIAL PKWY	1093+25.00	1096+09.20	LT			2			285	10			1					1	1		
UD-15	39 - 40	INDUSTRIAL PKWY	1093+25.00	1095+84.41	RT			2			260	13			1					1	1		
UD-16	37 & 40	REF LINE NW	101+80.16	103+35.73	LT			2			152	14			1					1	1		
TOTALS CARRIED TO GENERAL SUMMARY						553		32		0.86	3403	199		35	16	343	717						

DRAINAGE AND EROSION CONTROL SUBSUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 34 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:06:49 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Drainage\Sheets\01156_DS001.dgn

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:06:59 PM USER: lstutler
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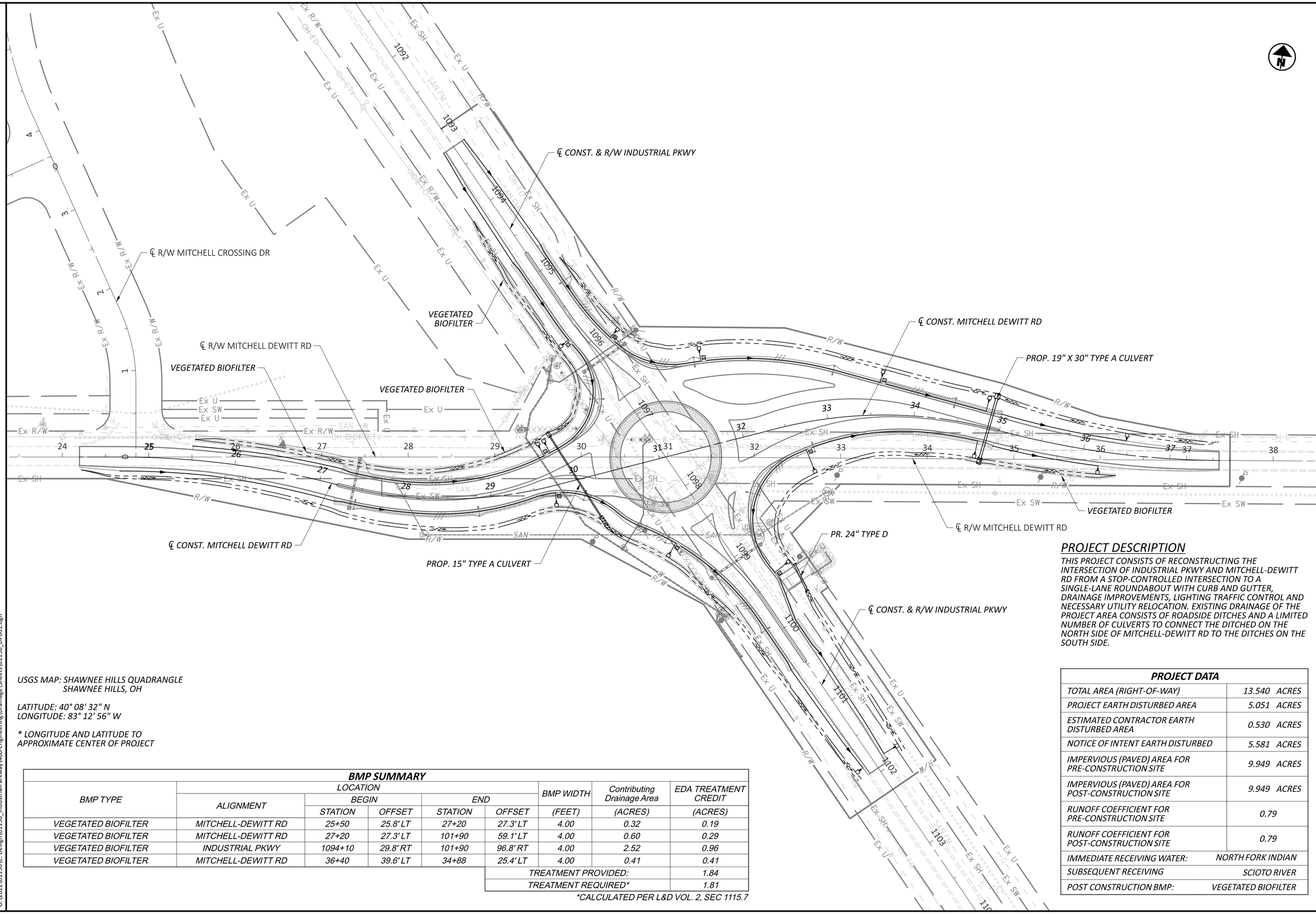


USGS MAP: SHAWNEE HILLS QUADRANGLE
SHAWNEE HILLS, OH

LATITUDE: 40° 08' 32" N
LONGITUDE: 83° 12' 56" W

* LONGITUDE AND LATITUDE TO APPROXIMATE CENTER OF PROJECT

BMP SUMMARY

BMP TYPE	LOCATION					BMP WIDTH	Contributing Drainage Area	EDA TREATMENT CREDIT
	ALIGNMENT	BEGIN		END				
		STATION	OFFSET	STATION	OFFSET	(FEET)	(ACRES)	(ACRES)
VEGETATED BIOFILTER	MITCHELL-DEWITT RD	25+50	25.8' LT	27+20	27.3' LT	4.00	0.32	0.19
VEGETATED BIOFILTER	MITCHELL-DEWITT RD	27+20	27.3' LT	101+90	59.1' LT	4.00	0.60	0.29
VEGETATED BIOFILTER	INDUSTRIAL PKWY	1094+10	29.8' RT	101+90	96.8' RT	4.00	2.52	0.96
VEGETATED BIOFILTER	MITCHELL-DEWITT RD	36+40	39.6' LT	34+88	25.4' LT	4.00	0.41	0.41
						TREATMENT PROVIDED:		1.84
						TREATMENT REQUIRED*		1.81

*CALCULATED PER L&D VOL. 2, SEC 1115.7

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF RECONSTRUCTING THE INTERSECTION OF INDUSTRIAL PKWY AND MITCHELL-DEWITT RD FROM A STOP-CONTROLLED INTERSECTION TO A SINGLE-LANE ROUNDABOUT WITH CURB AND GUTTER, DRAINAGE IMPROVEMENTS, LIGHTING TRAFFIC CONTROL AND NECESSARY UTILITY RELOCATION. EXISTING DRAINAGE OF THE PROJECT AREA CONSISTS OF ROADSIDE DITCHES AND A LIMITED NUMBER OF CULVERTS TO CONNECT THE DITCHED ON THE NORTH SIDE OF MITCHELL-DEWITT RD TO THE DITCHES ON THE SOUTH SIDE.

PROJECT DATA

TOTAL AREA (RIGHT-OF-WAY)	13.540 ACRES
PROJECT EARTH DISTURBED AREA	5.051 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.530 ACRES
NOTICE OF INTENT EARTH DISTURBED	5.581 ACRES
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	9.949 ACRES
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE	9.949 ACRES
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.79
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.79
IMMEDIATE RECEIVING WATER:	NORTH FORK INDIAN
SUBSEQUENT RECEIVING	SCIOTO RIVER
POST CONSTRUCTION BMP:	VEGETATED BIOFILTER

PROJECT SITE PLAN

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

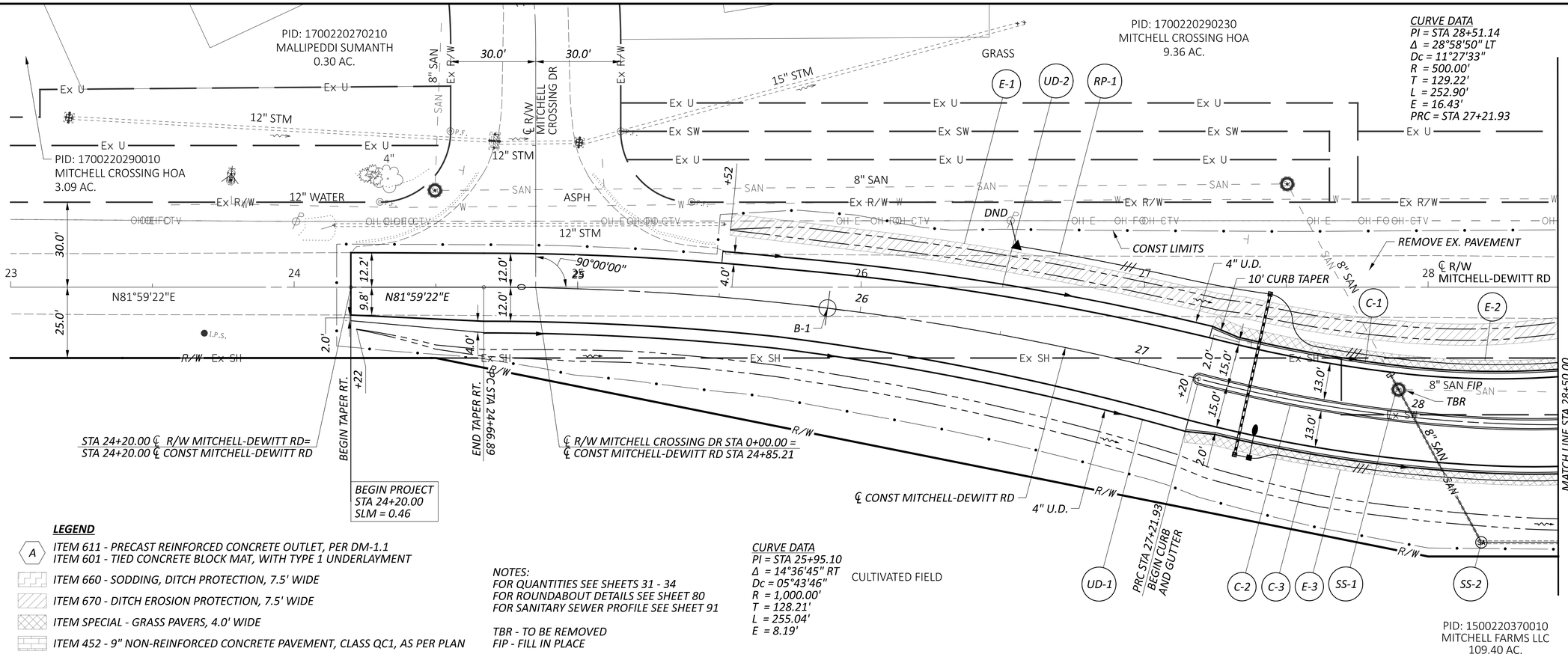
REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 35 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:09 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GP101.dgn



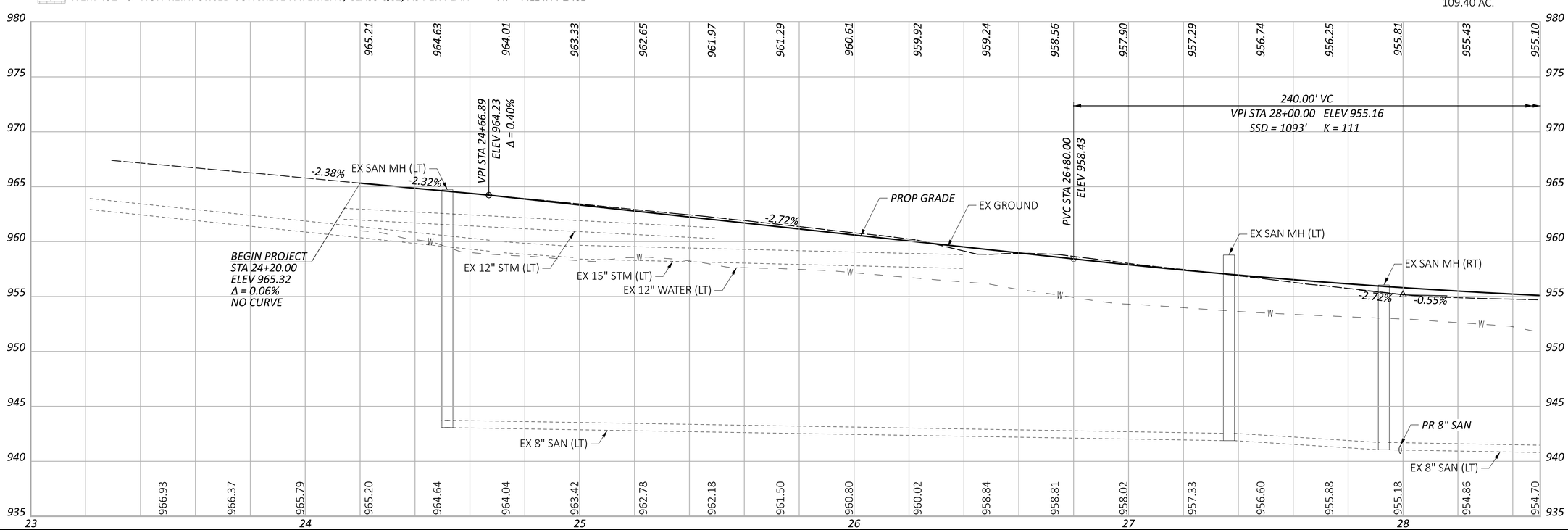
LEGEND

- (A) ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET, PER DM-1.1
  ITEM 601 - TIED CONCRETE BLOCK MAT, WITH TYPE 1 UNDERLAYMENT
- ITEM 660 - SODDING, DITCH PROTECTION, 7.5' WIDE
- ITEM 670 - DITCH EROSION PROTECTION, 7.5' WIDE
- ITEM SPECIAL - GRASS PAVERS, 4.0' WIDE
- ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN

NOTES:
FOR QUANTITIES SEE SHEETS 31 - 34
FOR ROUNDABOUT DETAILS SEE SHEET 80
FOR SANITARY SEWER PROFILE SEE SHEET 91

TBR - TO BE REMOVED
FIP - FILL IN PLACE

CURVE DATA
PI = STA 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000.00'
T = 128.21'
L = 255.04'
E = 8.19'



PLAN AND PROFILE - MITCHELL-DEWITT RD
STA 23+00.00 TO STA 28+50.00

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 36 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:14 PM USER: lstutler
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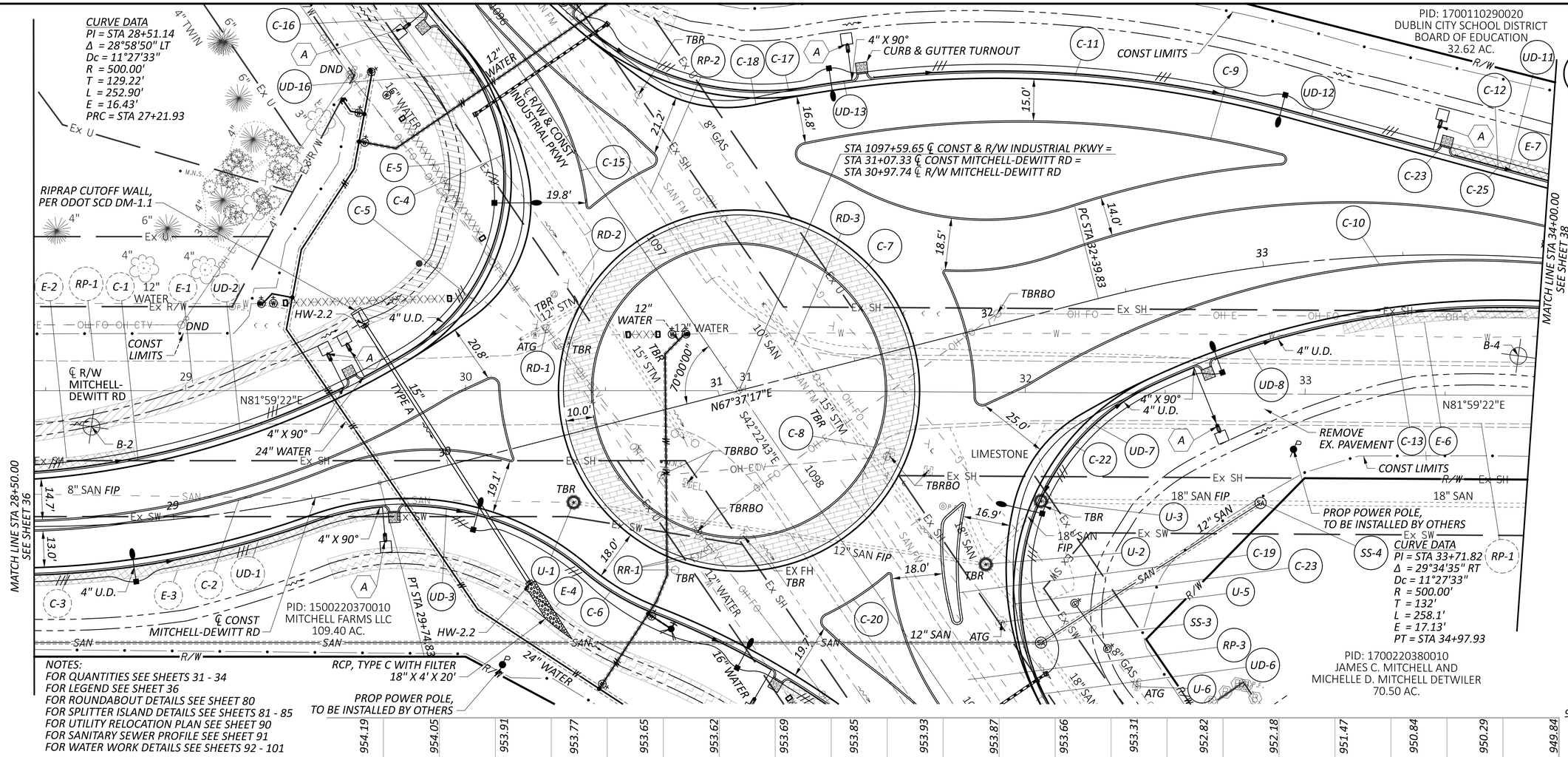

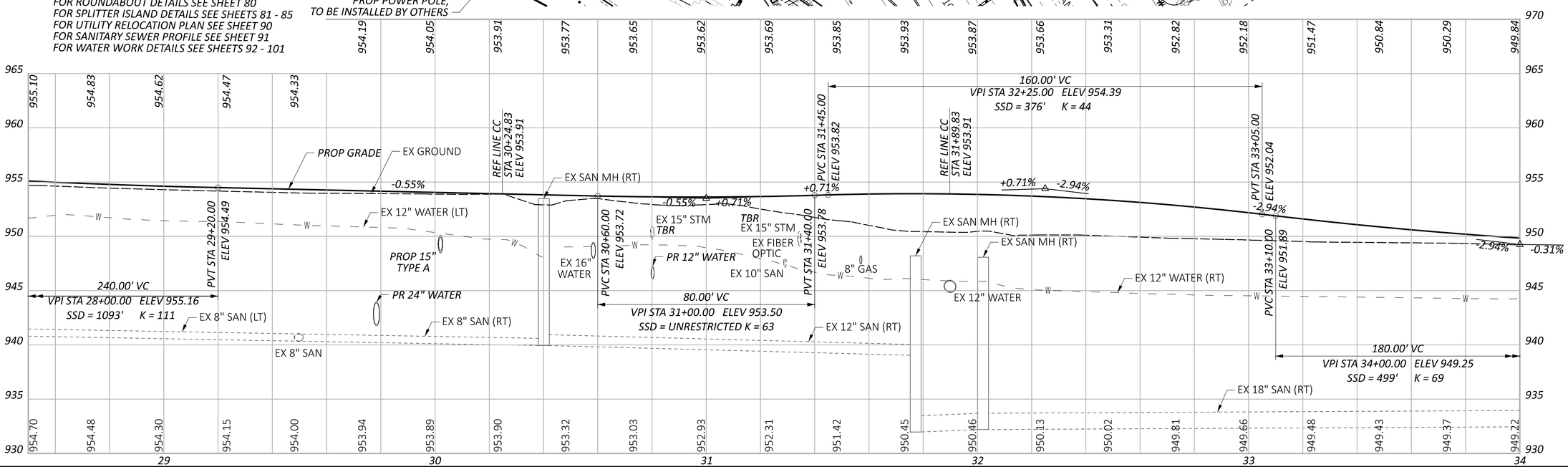

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - MITCHELL-DEWITT RD
STA 28+50.00 TO STA 34+00.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 37 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:19 PM USER: lstutler
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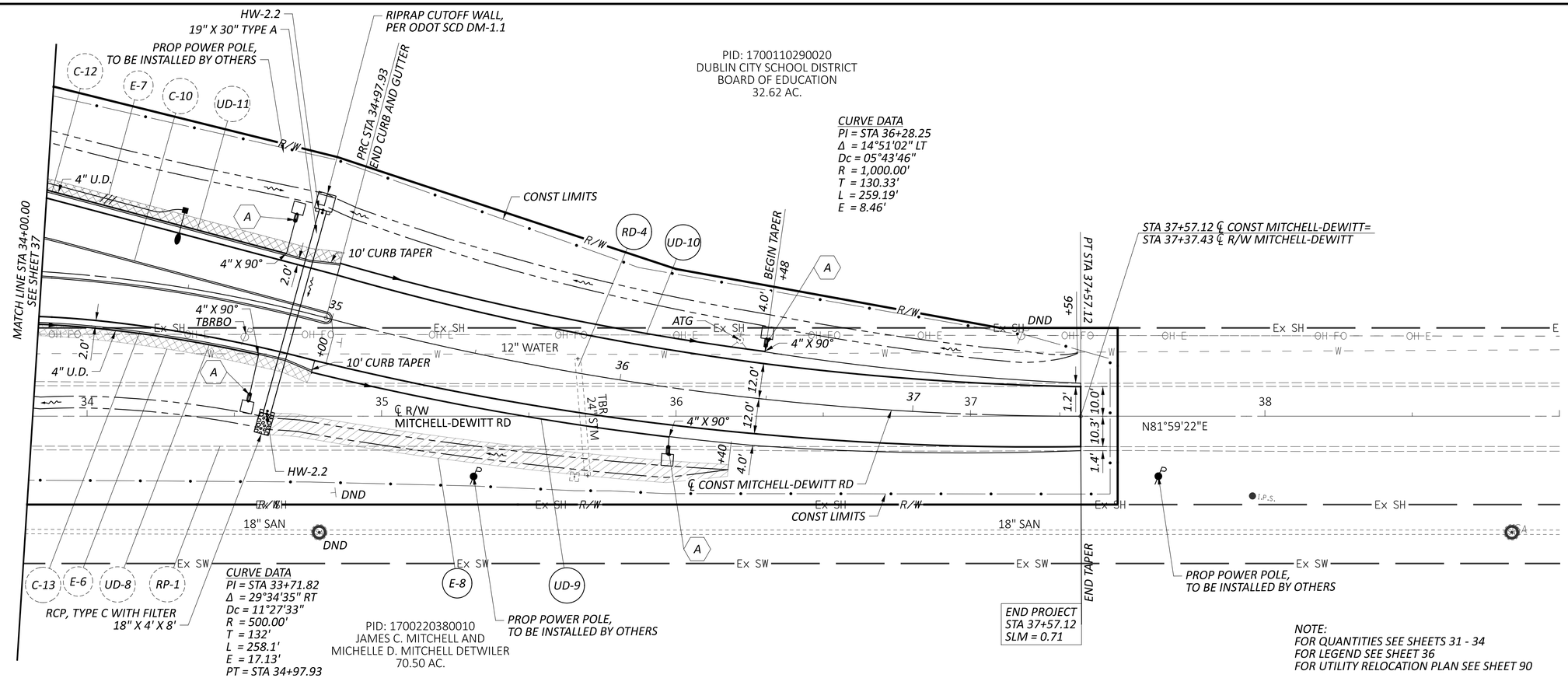

PLAN AND PROFILE - MITCHELL-DEWITT RD
STA 34+00.00 TO STA 39+00.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 38 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:25 PM USER: lstutler
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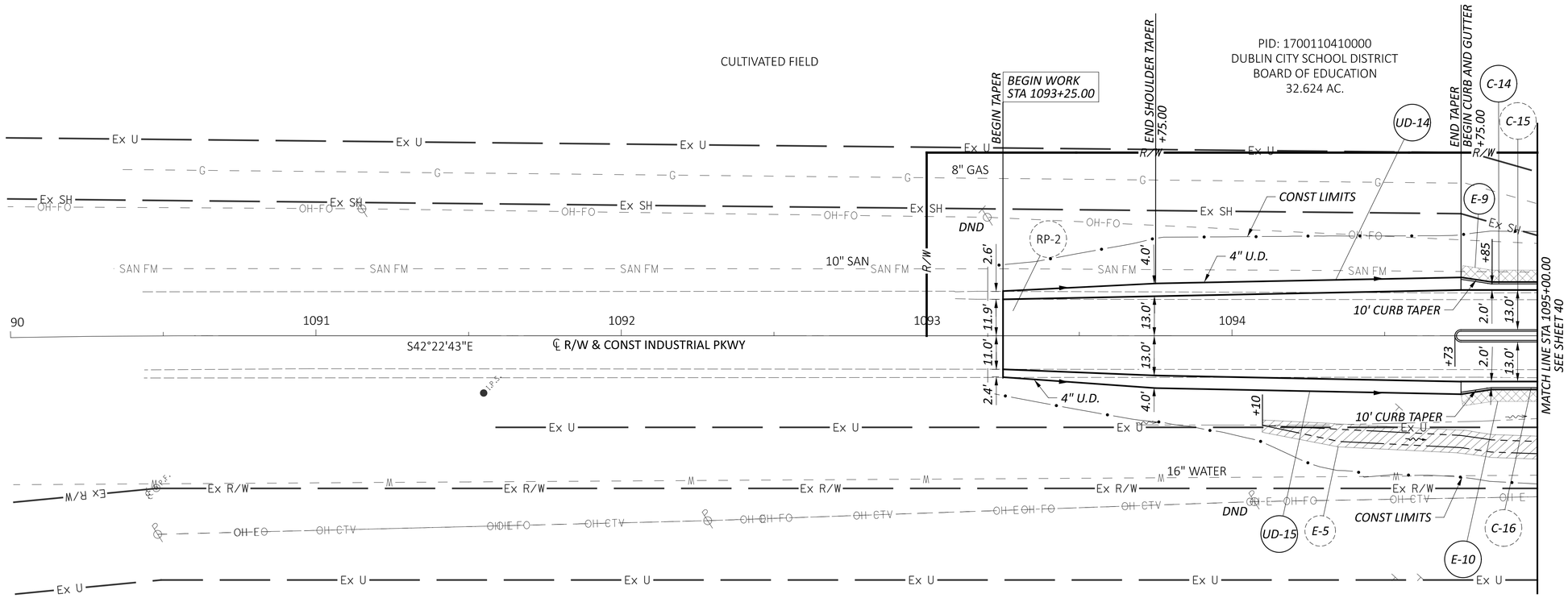
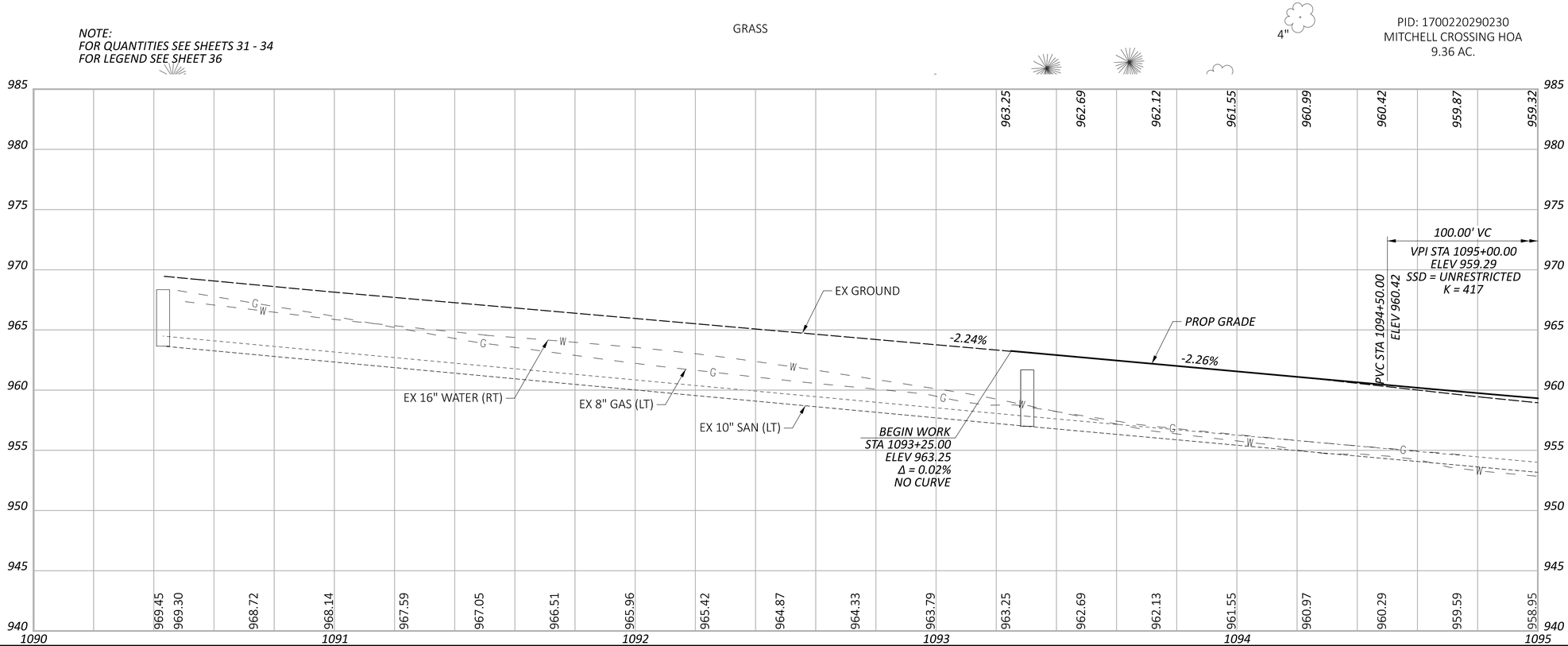


NOTE:
FOR QUANTITIES SEE SHEETS 31 - 34
FOR LEGEND SEE SHEET 36



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - INDUSTRIAL PKWY
STA 1090+00.00 TO STA 1095+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 39 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:30 PM USER: lstutler
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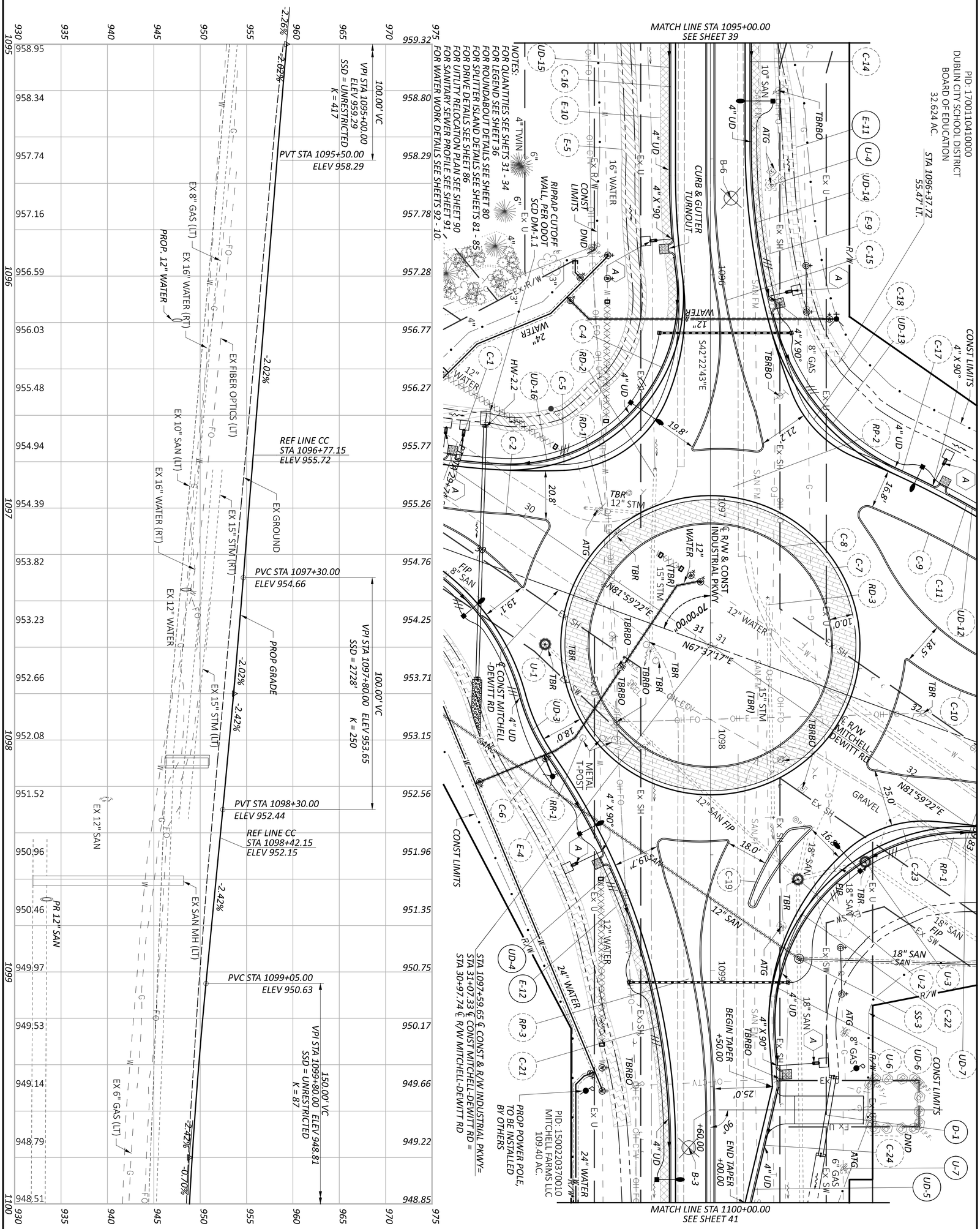

DESIGNER LZS	REVIEWER KAM 06/02/23	PROJECT ID 2022.01156	SHEET 40 TOTAL 131
DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.			

PLAN AND PROFILE - INDUSTRIAL PKWY
STA 1095+00.00 TO STA 1100+00.00

HORIZONTAL SCALE IN FEET
0 10 20 40

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:35 PM USER: lstutler
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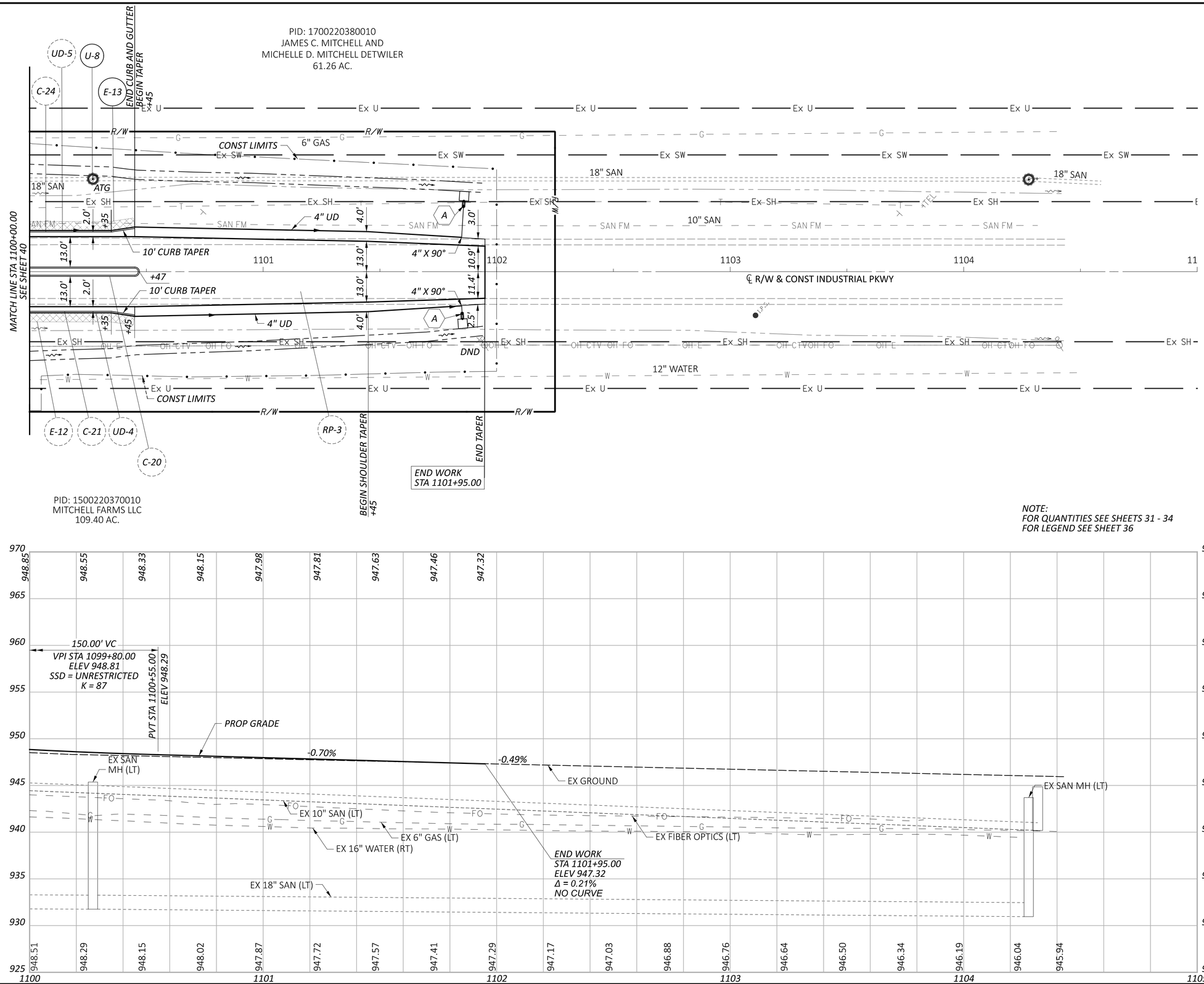


HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - INDUSTRIAL PKWY
STA 1100+00.00 TO STA 1105+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

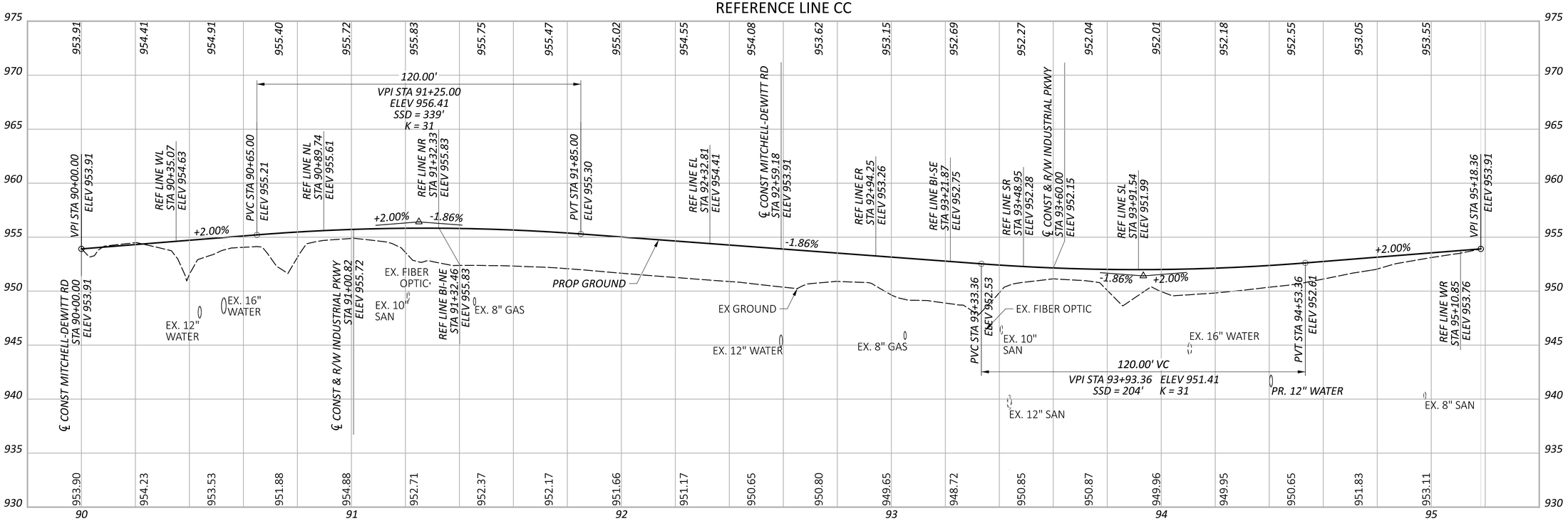
PROJECT ID
2022.01156

SHEET 41 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 01 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:43 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GF001.dgn

REFERENCE LINE CC



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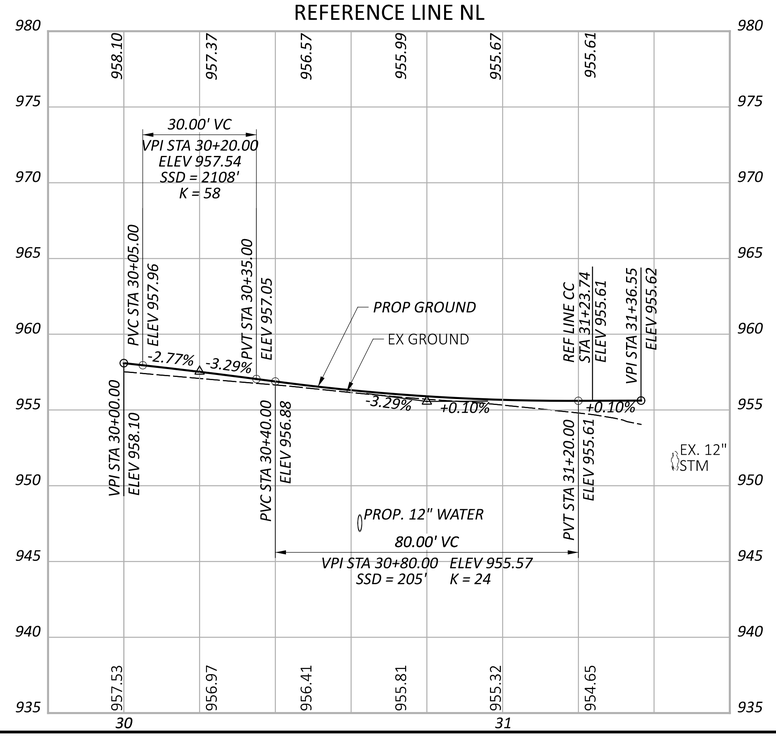

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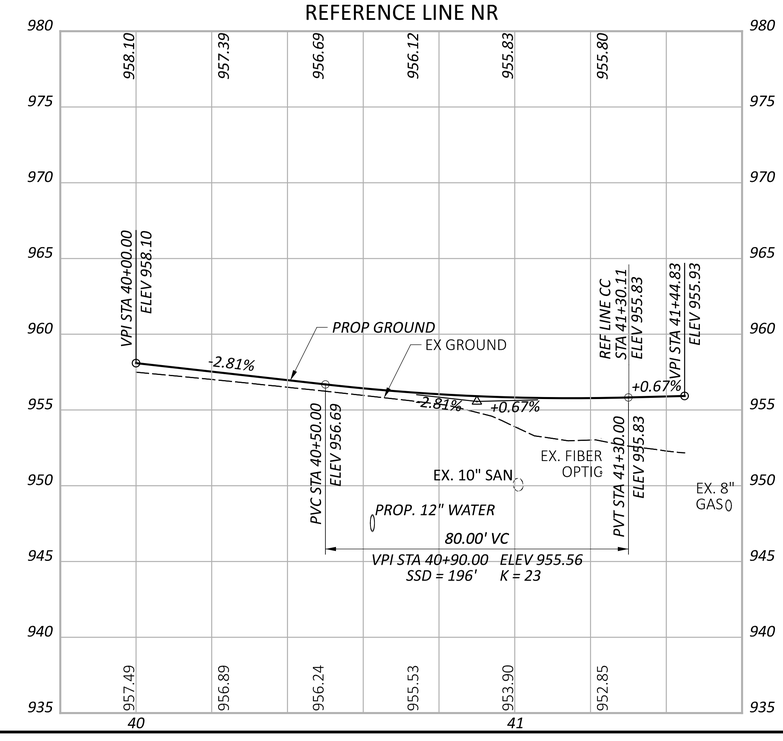


REFERENCE LINE PROFILES
CC, NL, NR

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

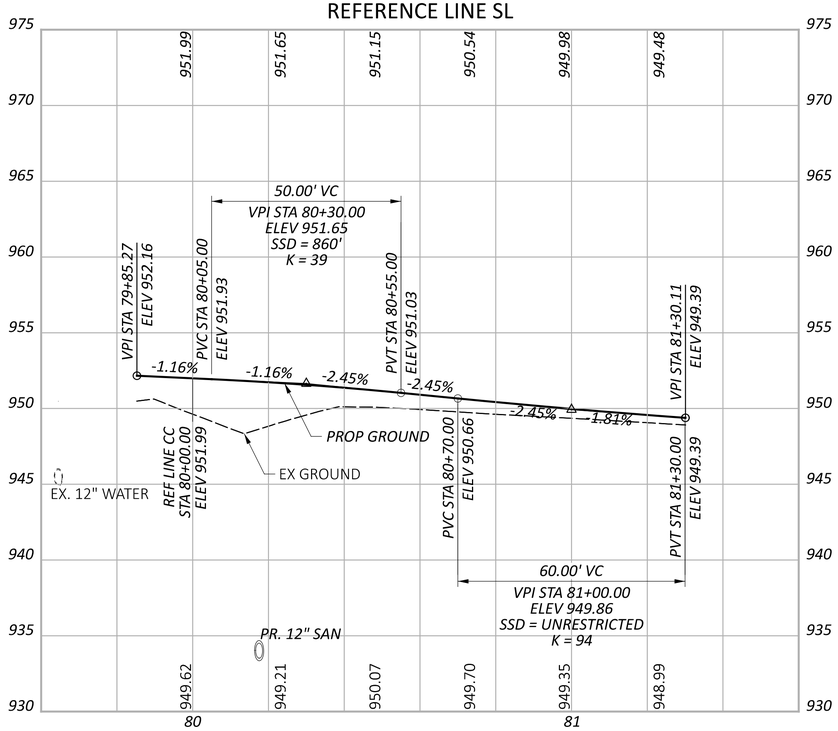
PROJECT ID
2022.01156

SHEET 42 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 02 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:47 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GF001.dgn

REFERENCE LINE SL



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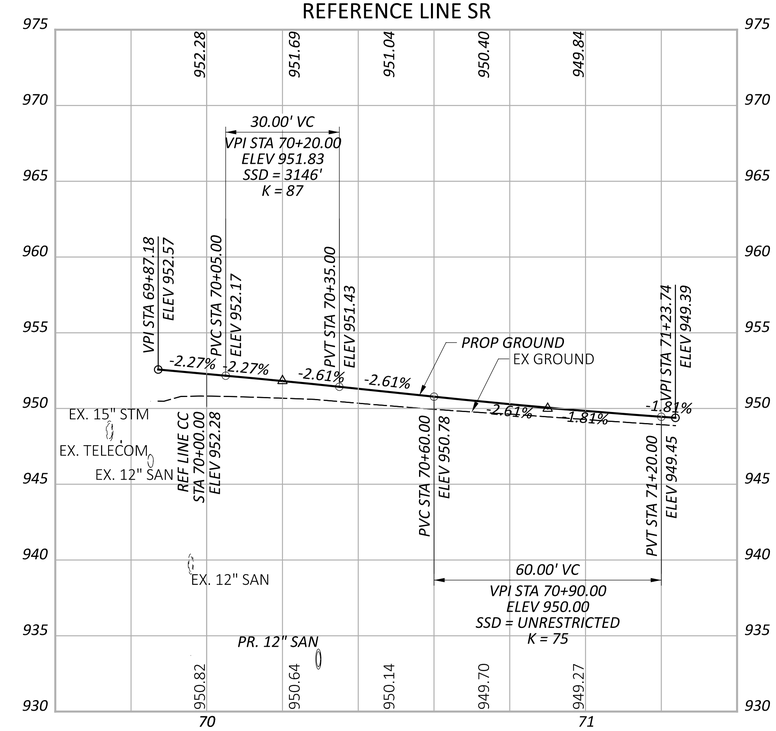

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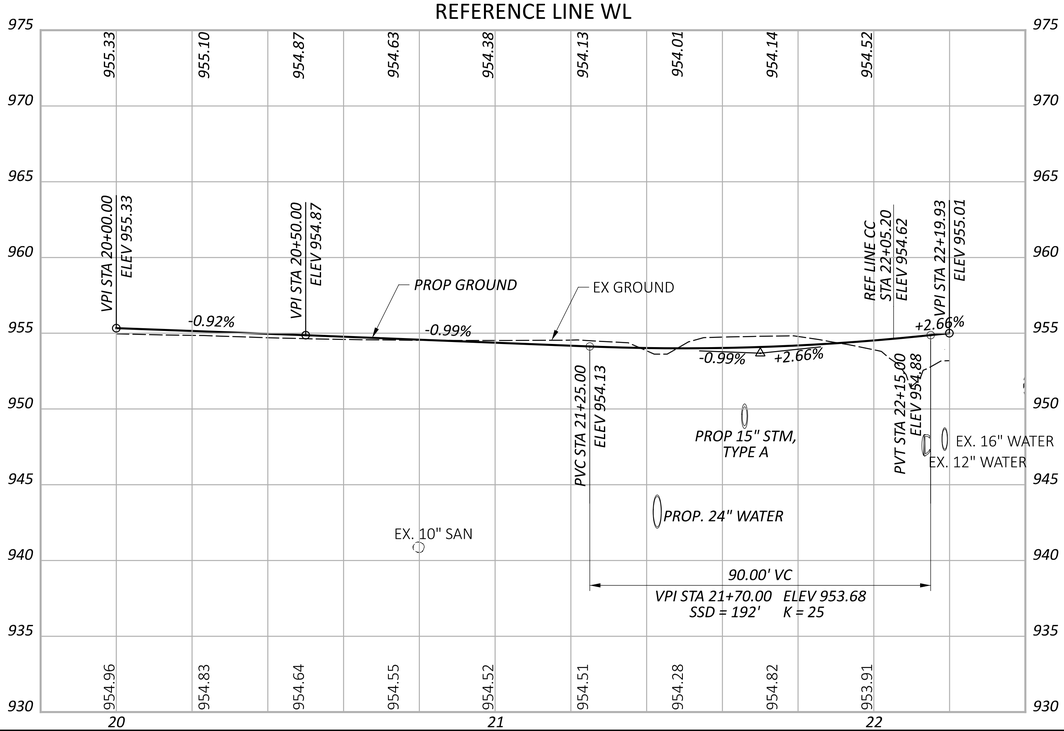

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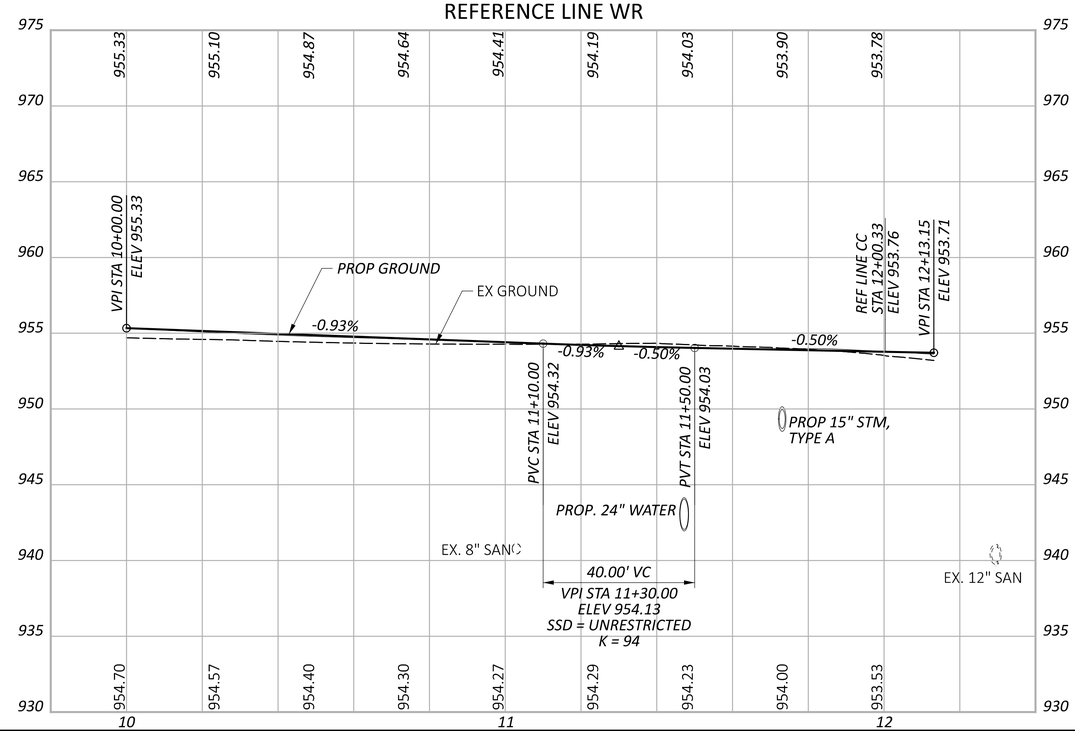

REFERENCE LINE PROFILES
SL, SR, WL, WR

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 43 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 03 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:50 PM USER: lstutler
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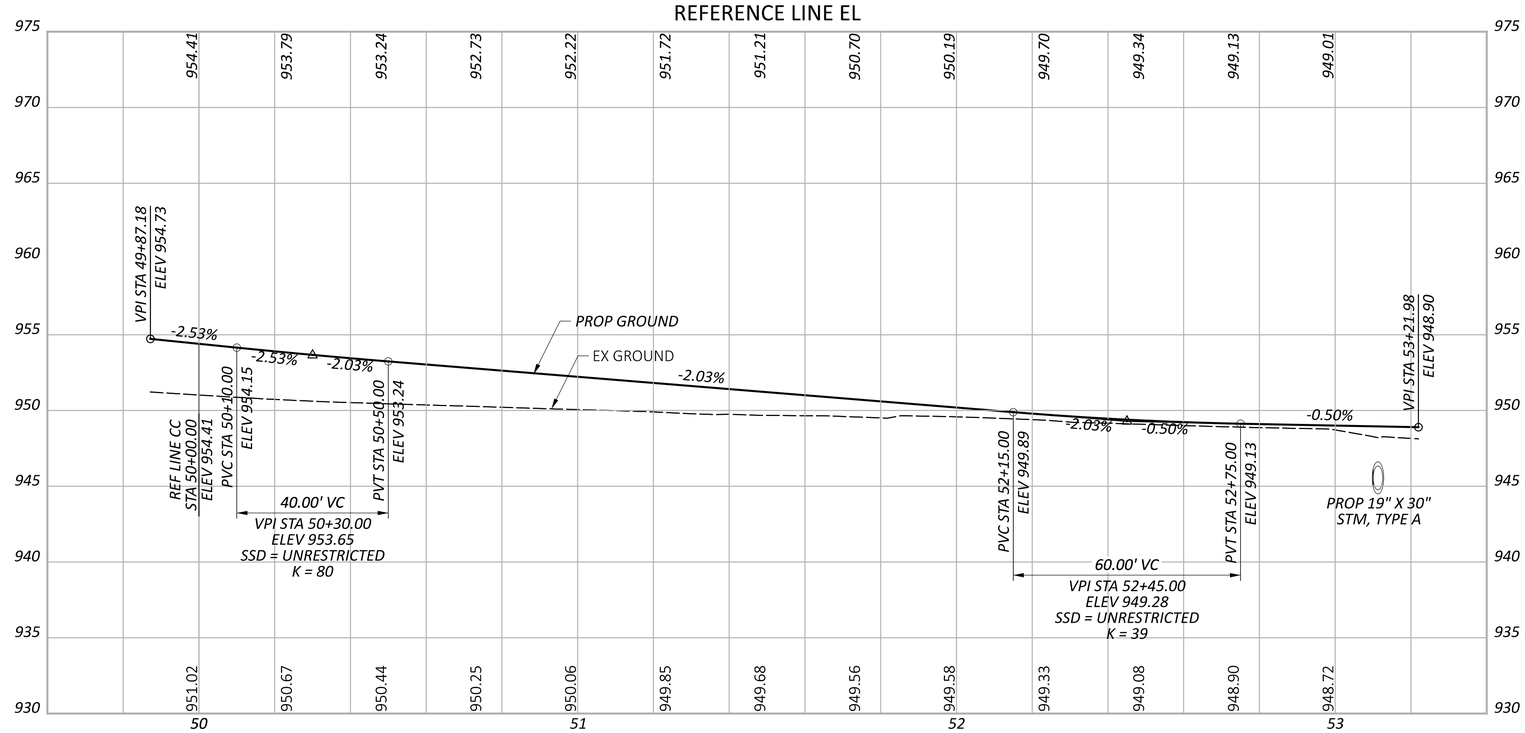

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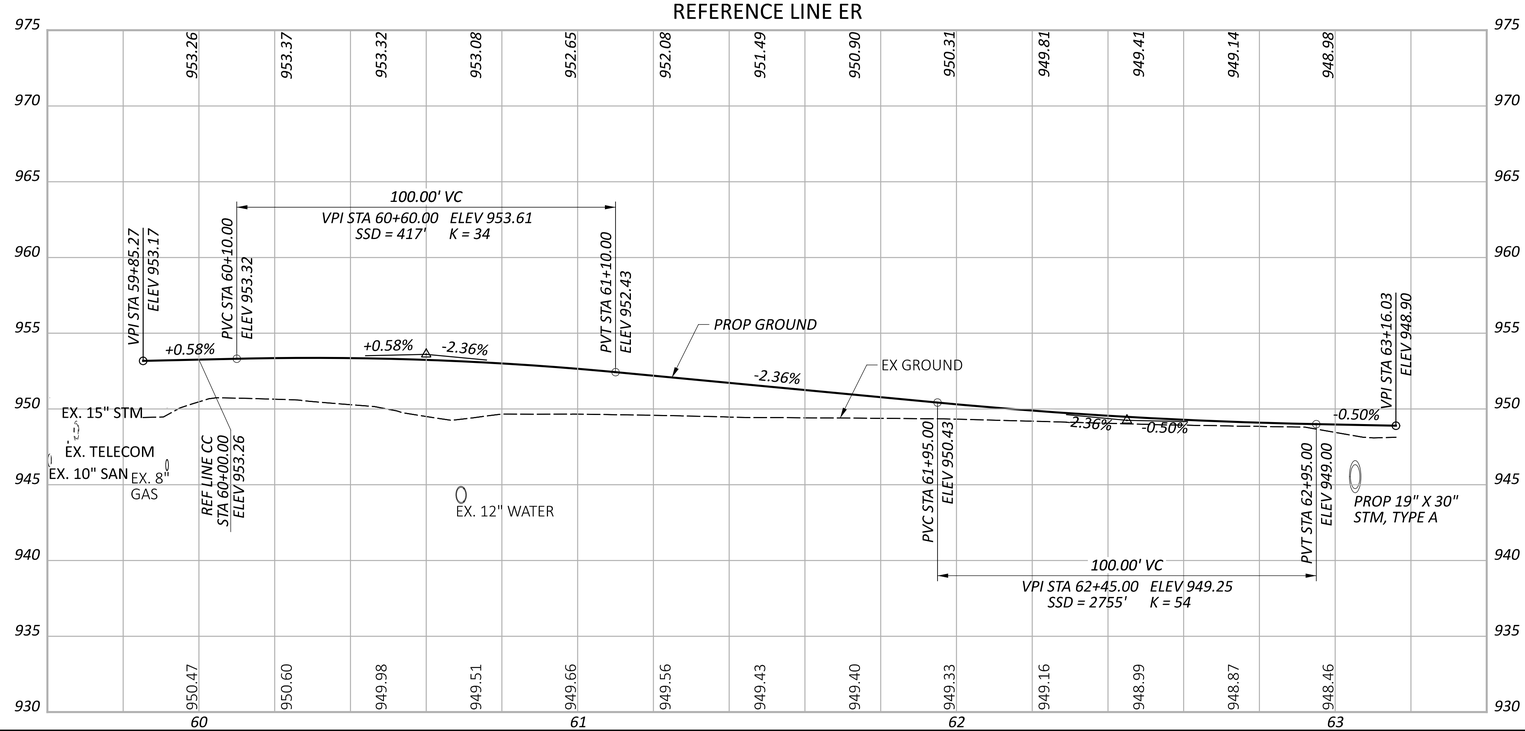


REFERENCE LINE PROFILES
EL, ER

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

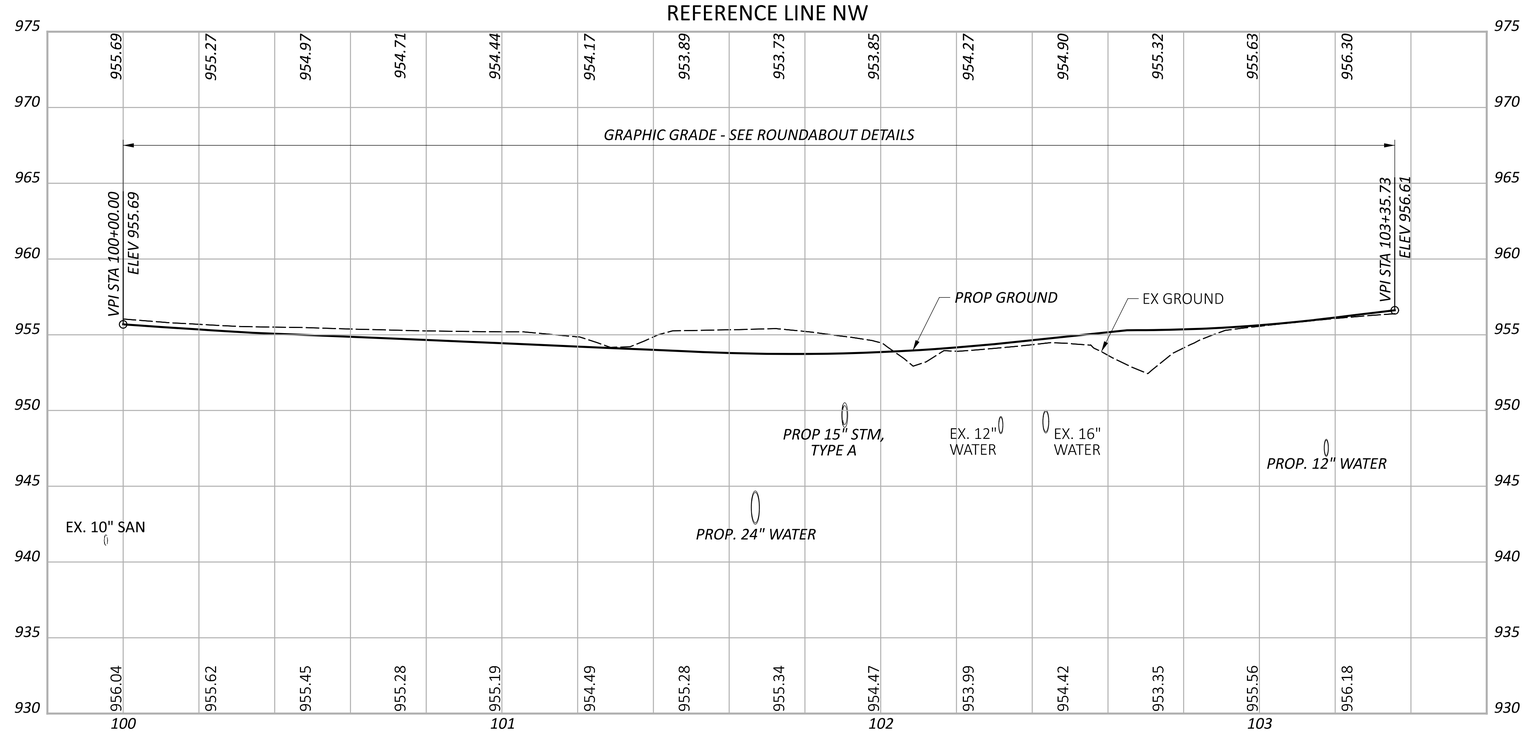
PROJECT ID
2022.01156

SHEET 44 TOTAL 131

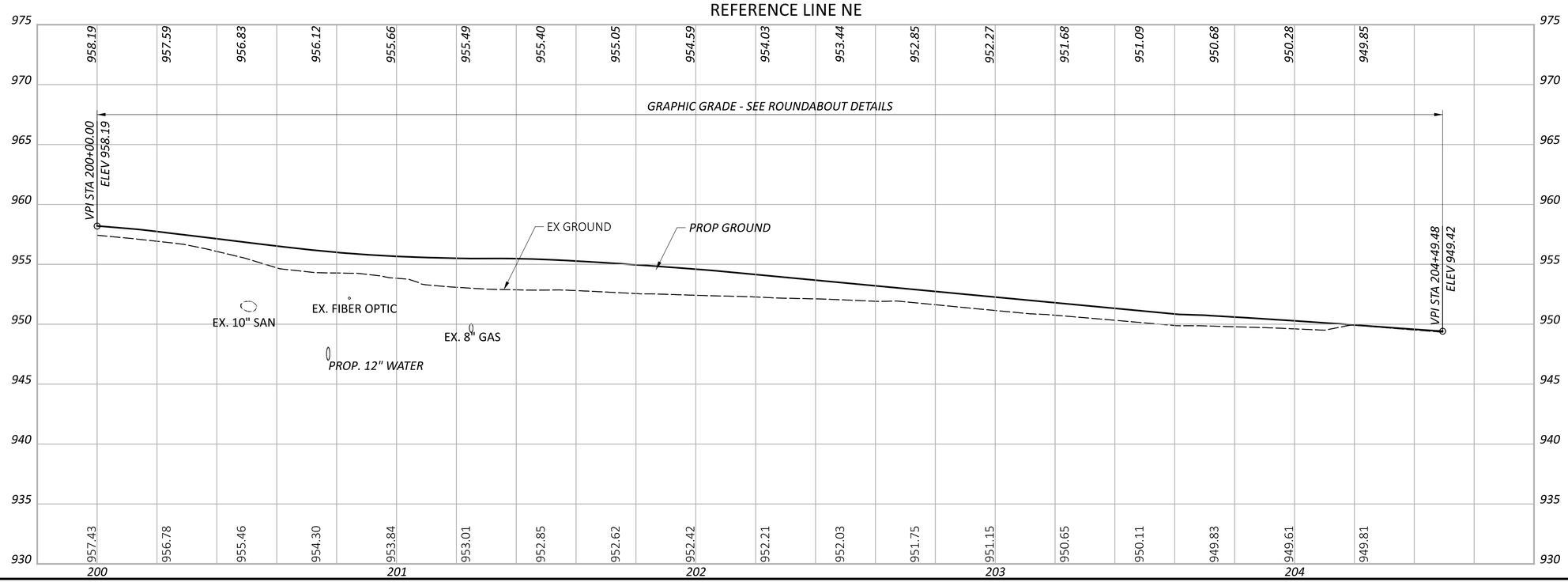
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 04 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:52 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GF001.dgn

REFERENCE LINE NW



REFERENCE LINE NE



REFERENCE LINE PROFILES
NW, NE

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 45 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 05 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:54 PM USER: lstutler
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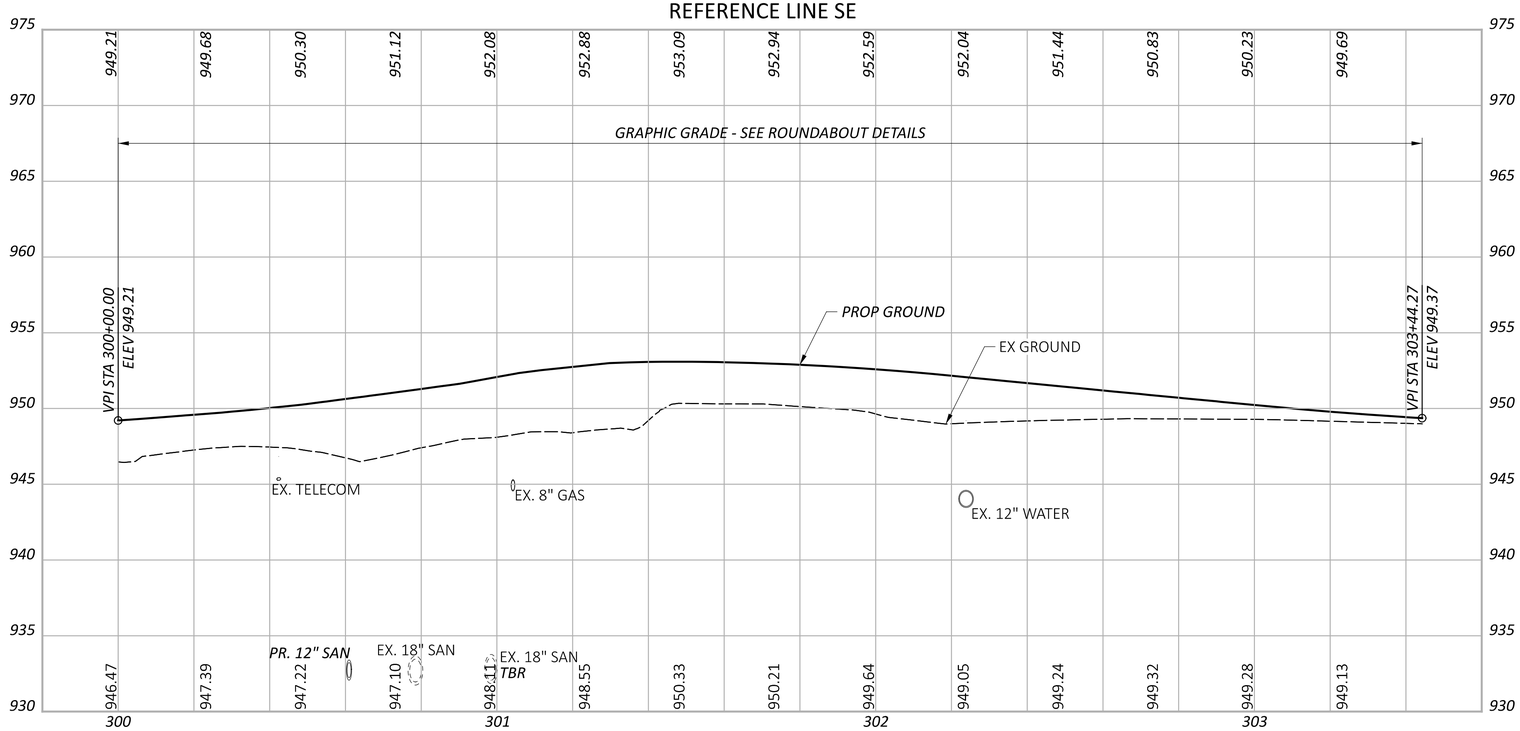
REFERENCE LINE SE



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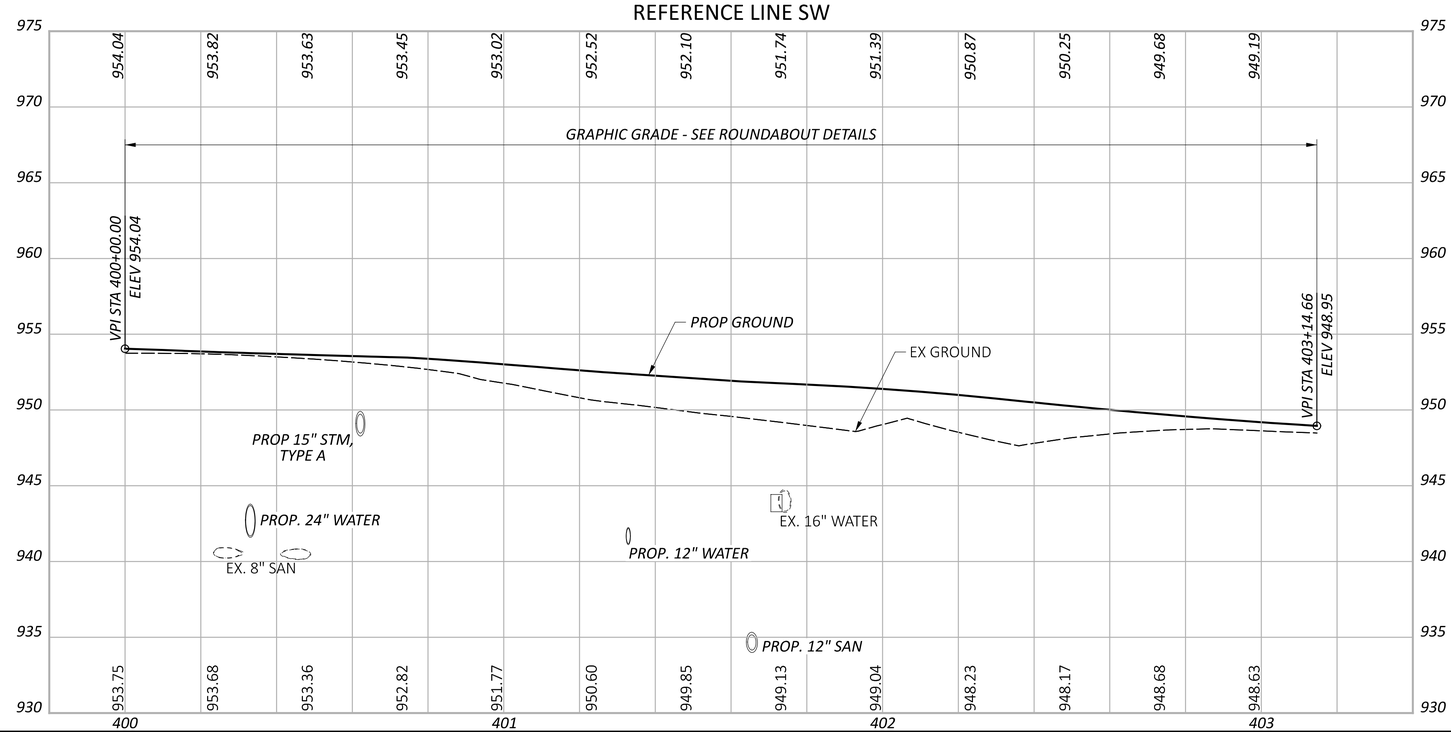

REFERENCE LINE PROFILES
SW, SE

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 46 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: GF_Sheet 06 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:07:55 PM USER: lstutler
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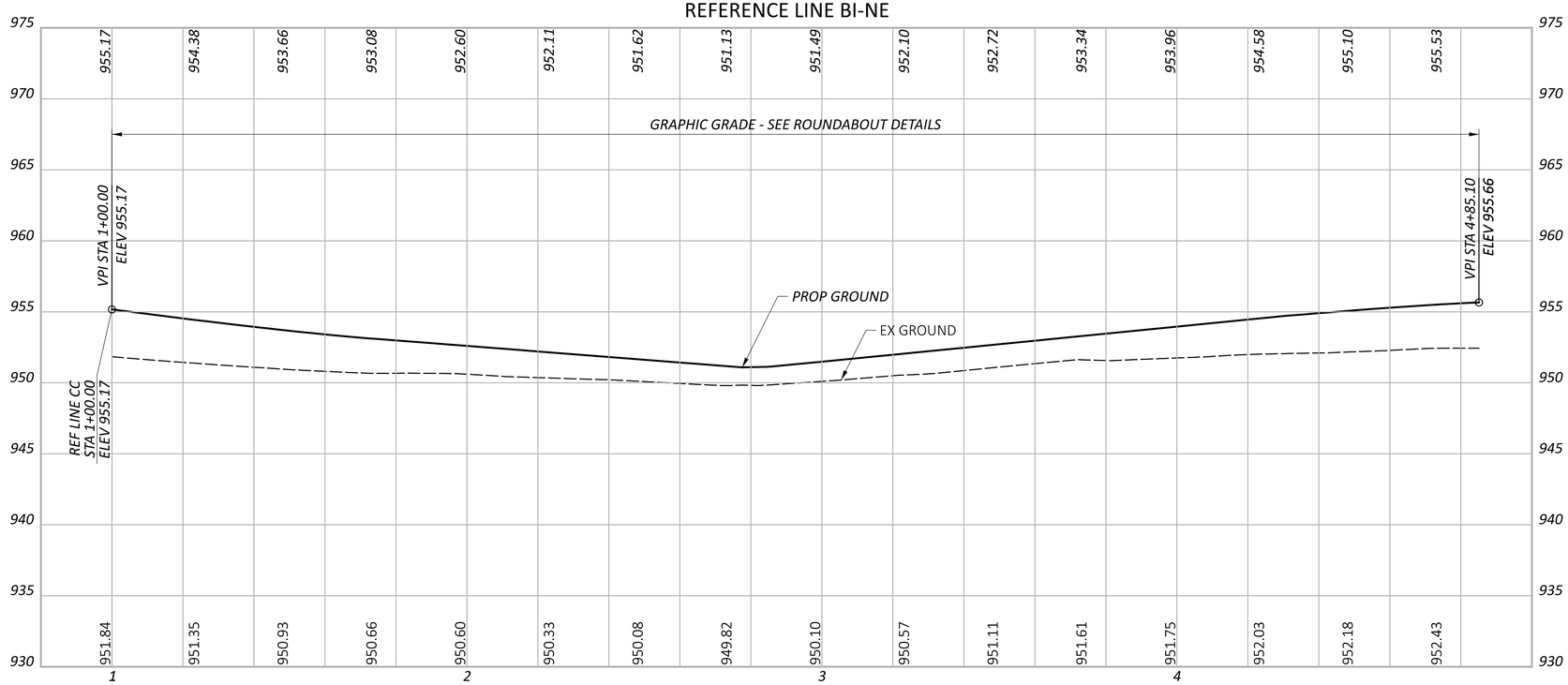
REFERENCE LINE BI-NE



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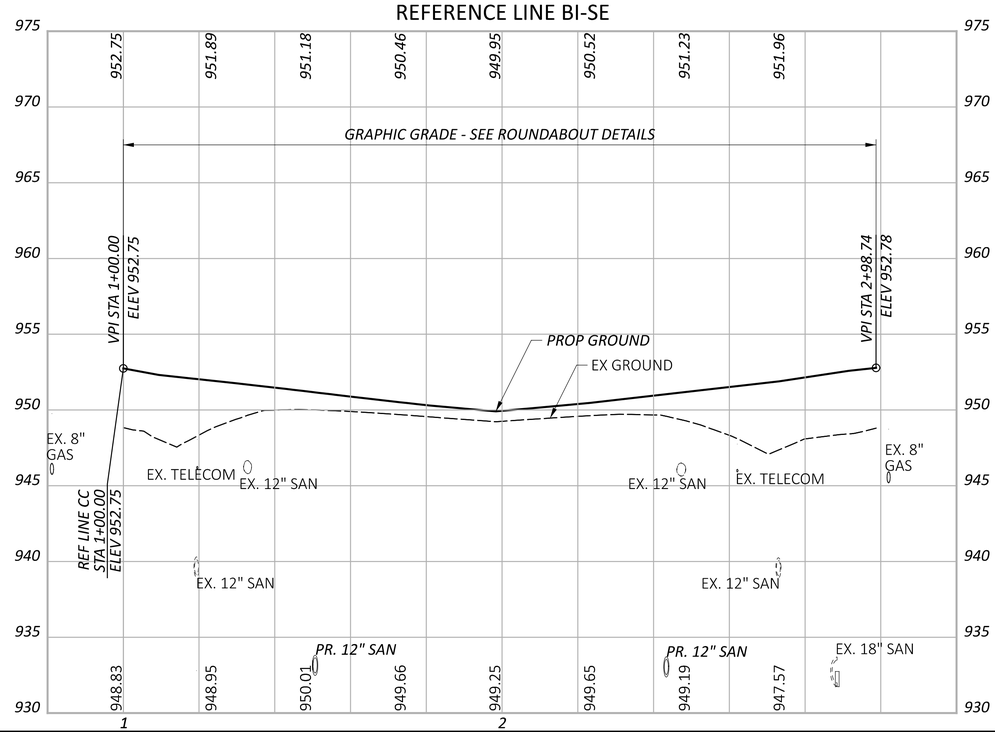


REFERENCE LINE PROFILES
BI-NE, BI-SE

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 47 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

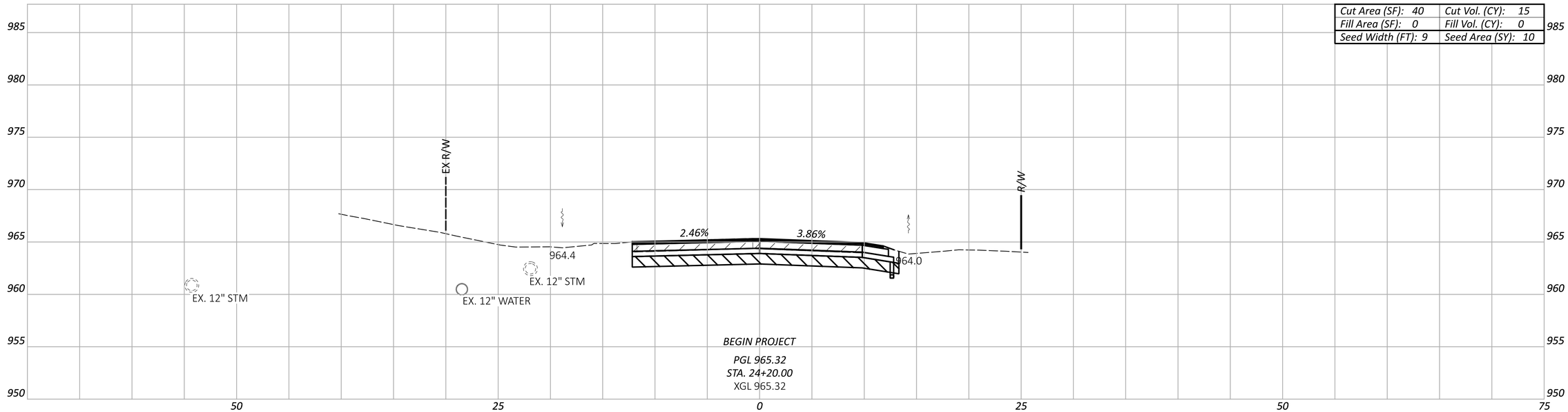
MODEL: XS_Sheet 01 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:12 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

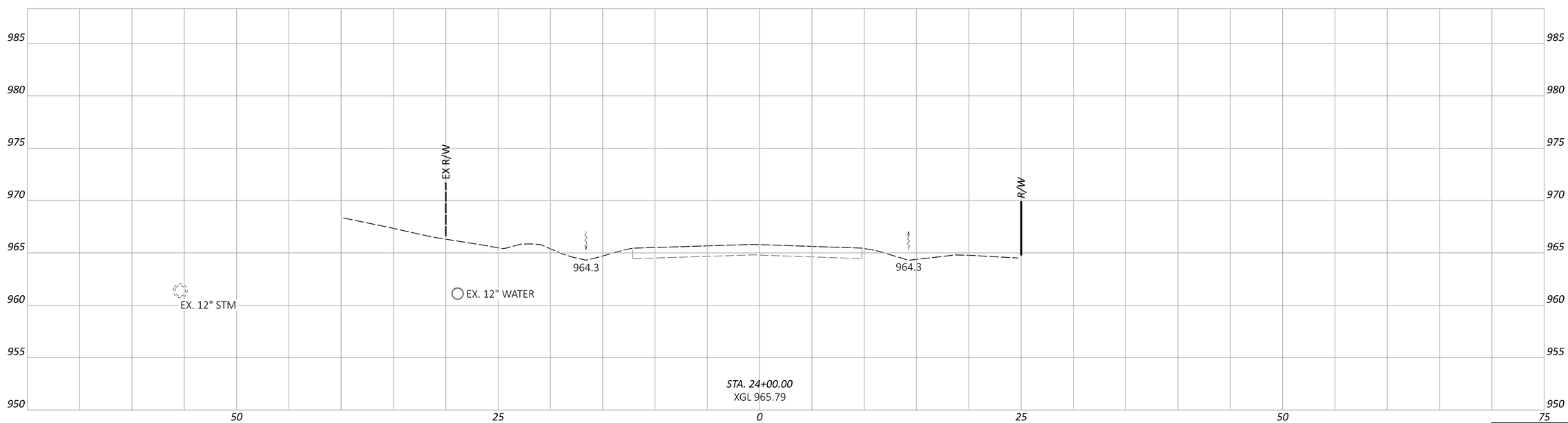
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 40	Cut Vol. (CY): 15
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 9	Seed Area (SY): 10





Sheet Totals		
Seeding	Cut	Fill
10	15	0

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 24+00.00 TO STA 24+20.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

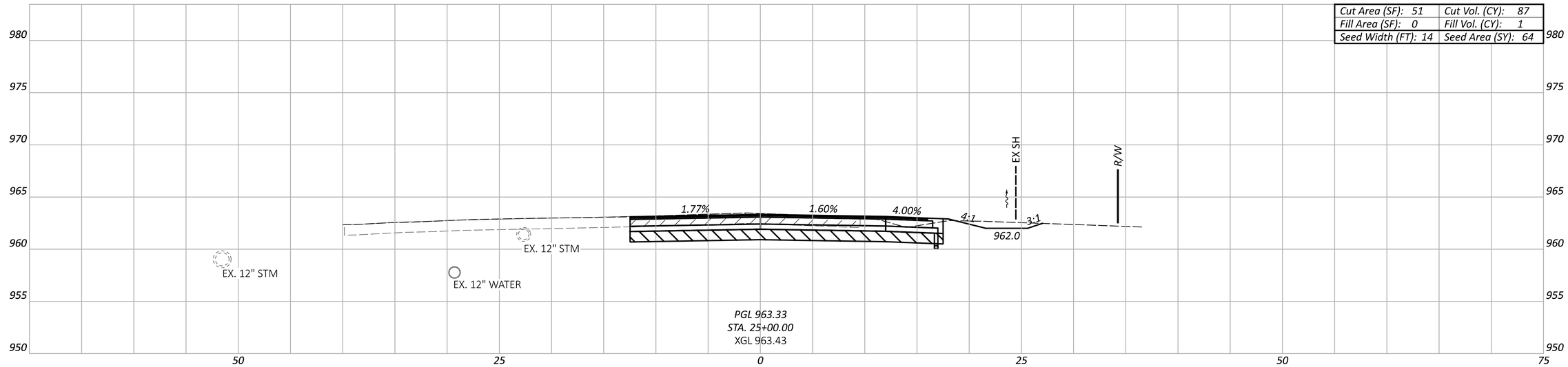
SHEET 48 TOTAL 131

LEGEND

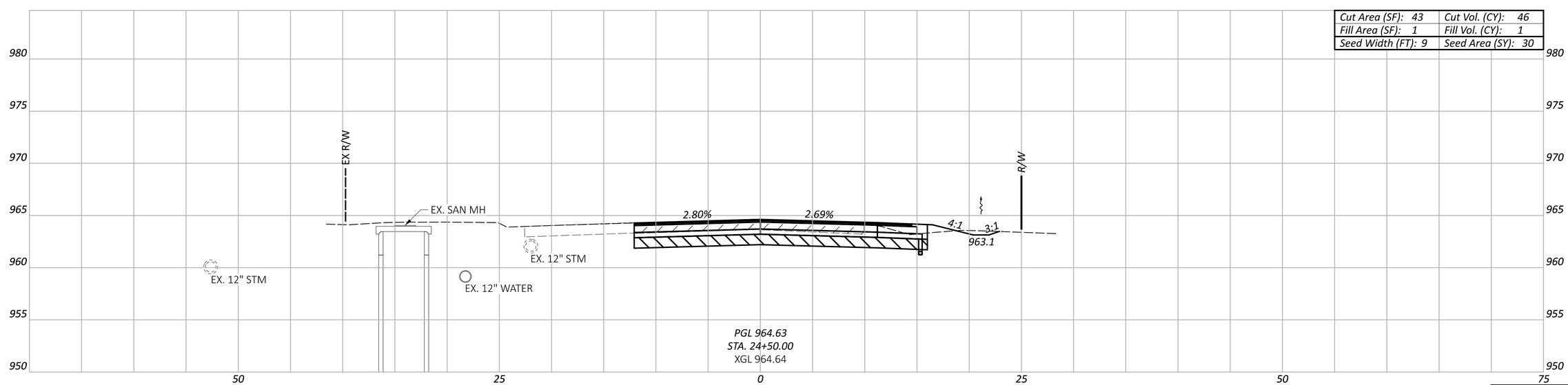
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 51	Cut Vol. (CY): 87
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (FT): 14	Seed Area (SY): 64



Cut Area (SF): 43	Cut Vol. (CY): 46
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT): 9	Seed Area (SY): 30



Sheet Totals		
Seeding	Cut	Fill
94	133	2

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 24+50.00 TO STA 25+00.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 02 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:19 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

DESIGN AGENCY
MIDWEST STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

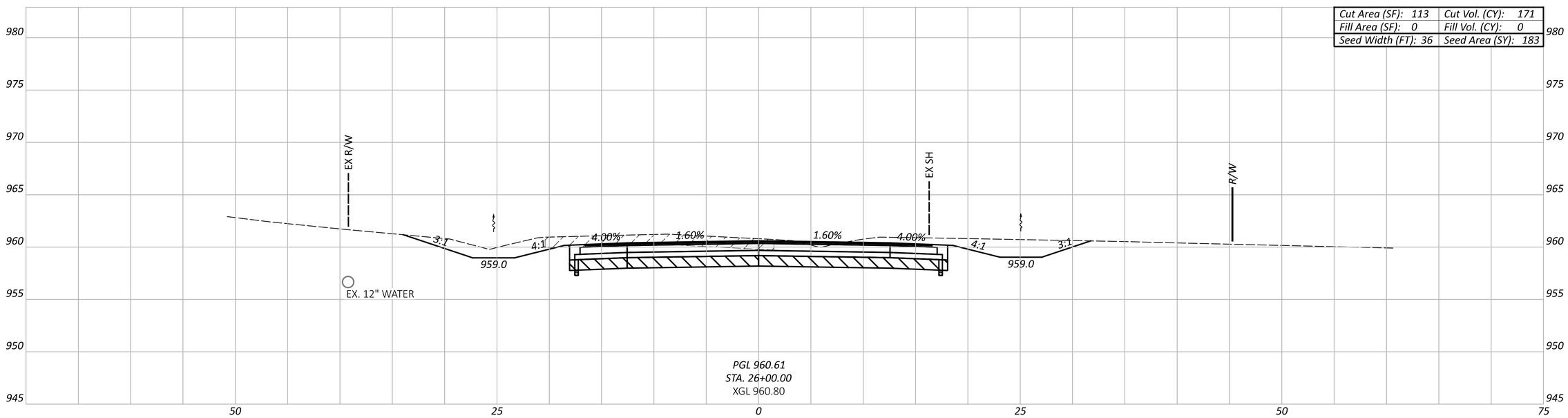
SHEET 49 TOTAL 131

LEGEND

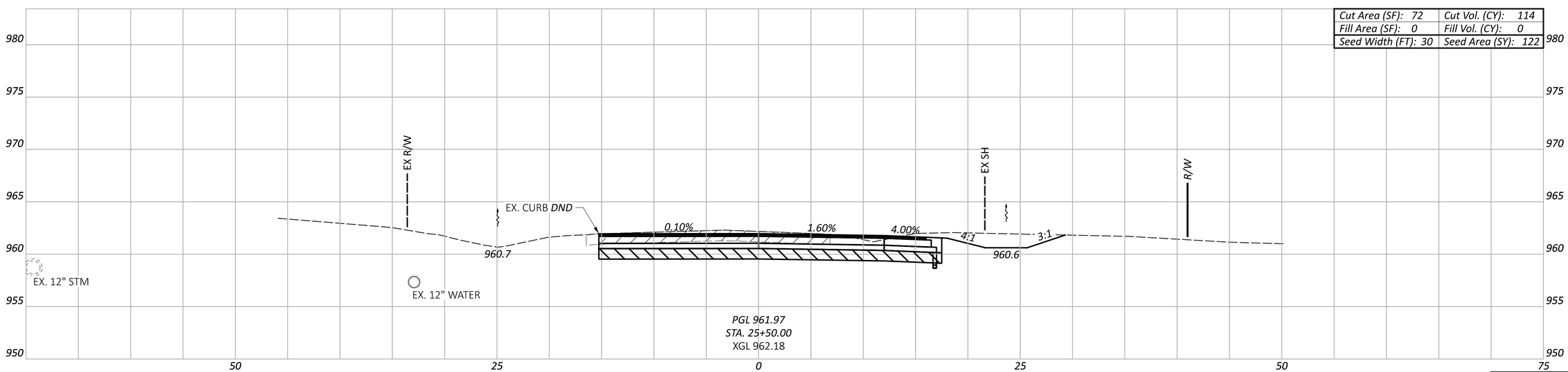
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 113	Cut Vol. (CY): 171
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 36	Seed Area (SY): 183



Cut Area (SF): 72	Cut Vol. (CY): 114
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 30	Seed Area (SY): 122



Sheet Totals		
Seeding	Cut	Fill
305	285	0

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 03 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:25 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 25+50.00 TO STA 26+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 50 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

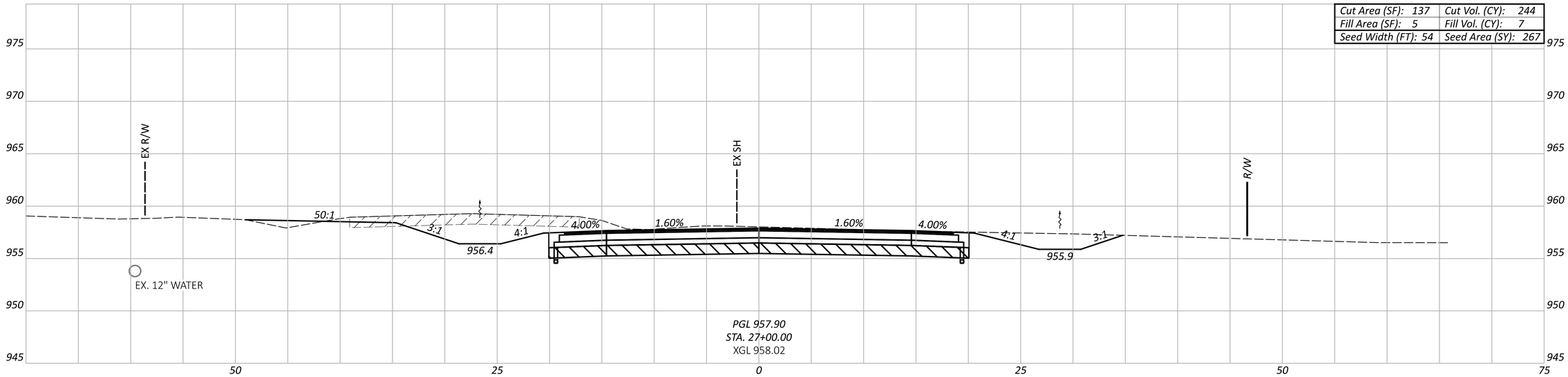
MODEL: XS_Sheet 04 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:30 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

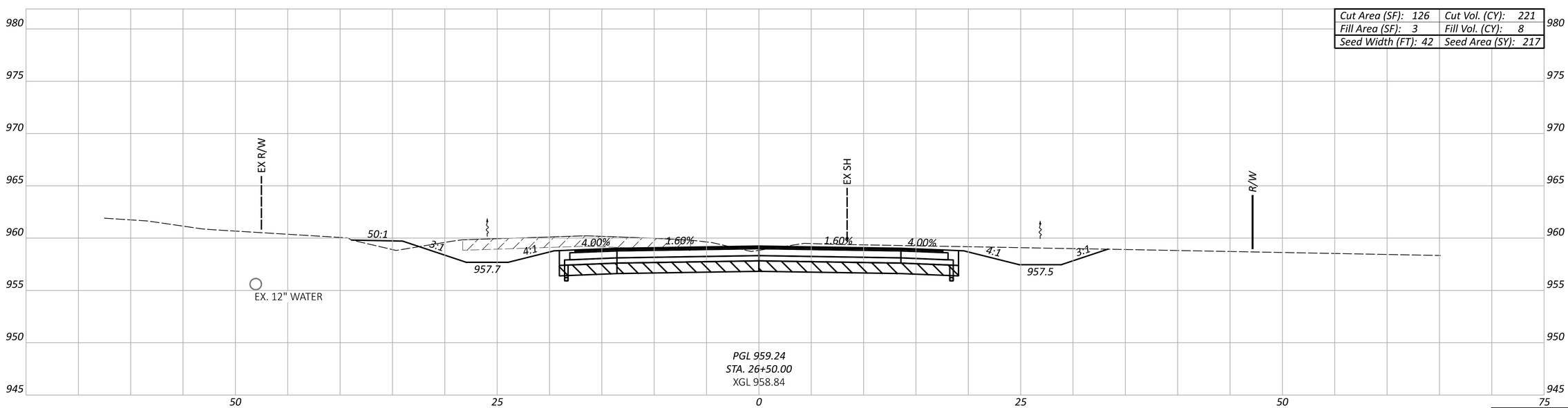
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 137	Cut Vol. (CY): 244
Fill Area (SF): 5	Fill Vol. (CY): 7
Seed Width (FT): 54	Seed Area (SY): 267



Cut Area (SF): 126	Cut Vol. (CY): 221
Fill Area (SF): 3	Fill Vol. (CY): 8
Seed Width (FT): 42	Seed Area (SY): 217



Sheet Totals		
Seeding	Cut	Fill
484	465	10

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 26+50.00 TO STA 27+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

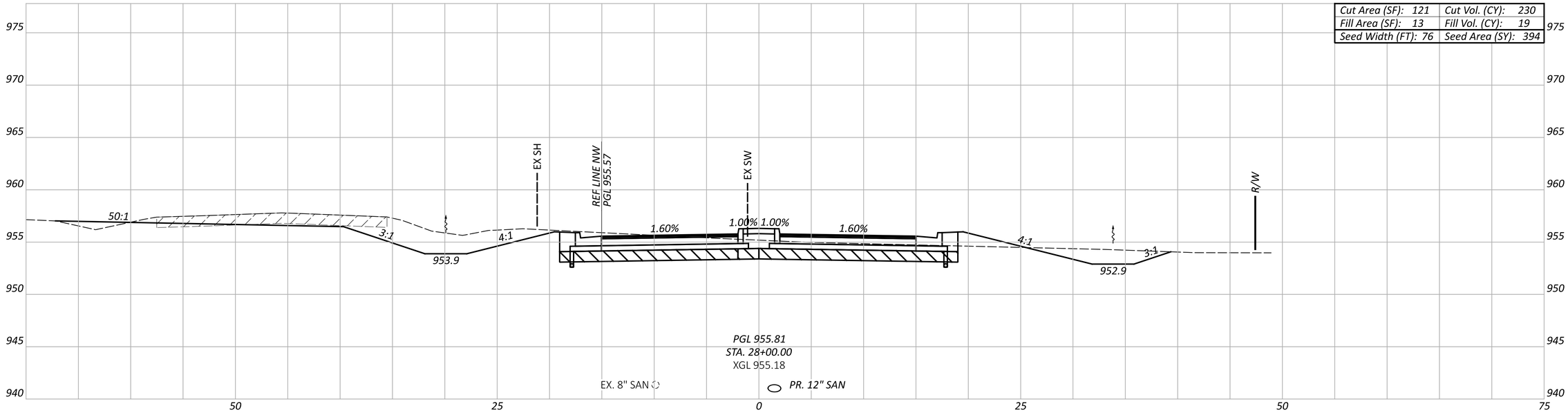
PROJECT ID
2022.01156

SHEET 51 TOTAL 131

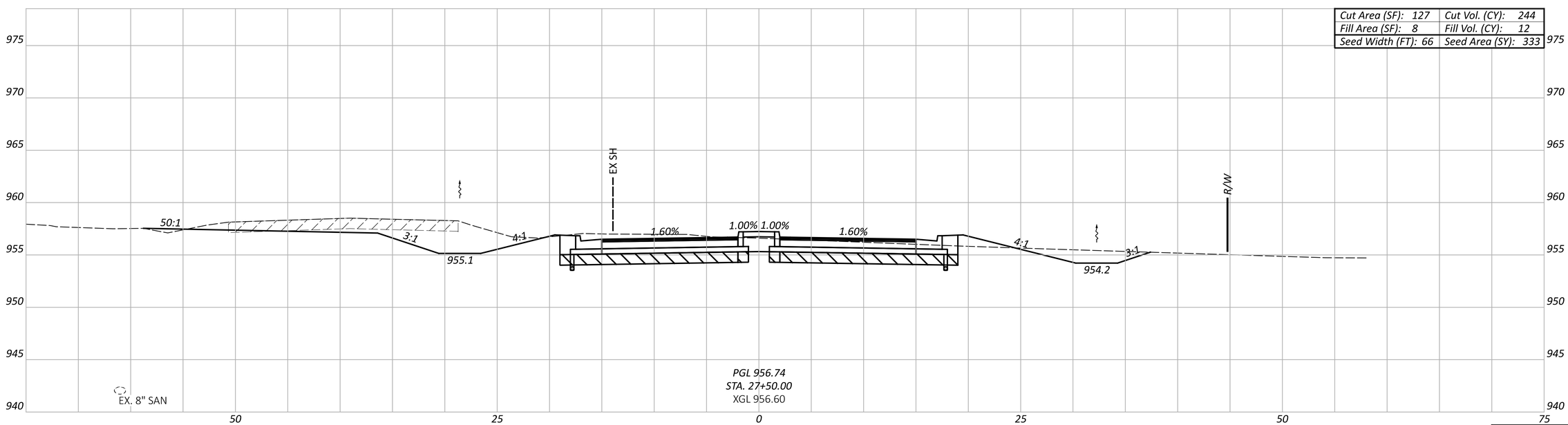
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 121	Cut Vol. (CY): 230
Fill Area (SF): 13	Fill Vol. (CY): 19
Seed Width (FT): 76	Seed Area (SY): 394



Cut Area (SF): 127	Cut Vol. (CY): 244
Fill Area (SF): 8	Fill Vol. (CY): 12
Seed Width (FT): 66	Seed Area (SY): 333

Sheet Totals		
Seeding	Cut	Fill
727	474	31

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 05 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:35 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 27+50.00 TO STA 28+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

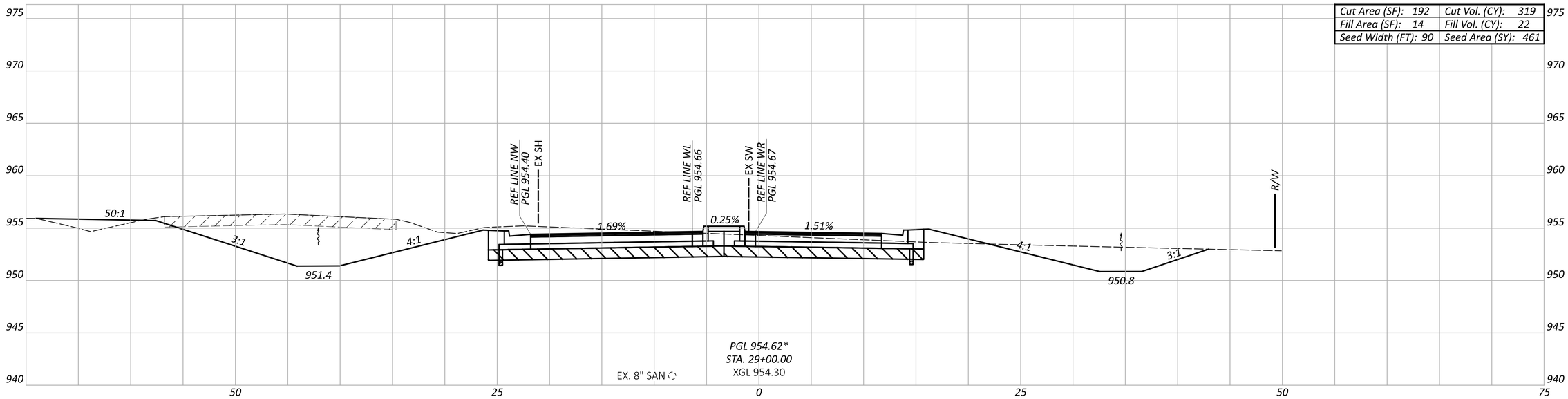
PROJECT ID
2022.01156

SHEET 52 TOTAL 131

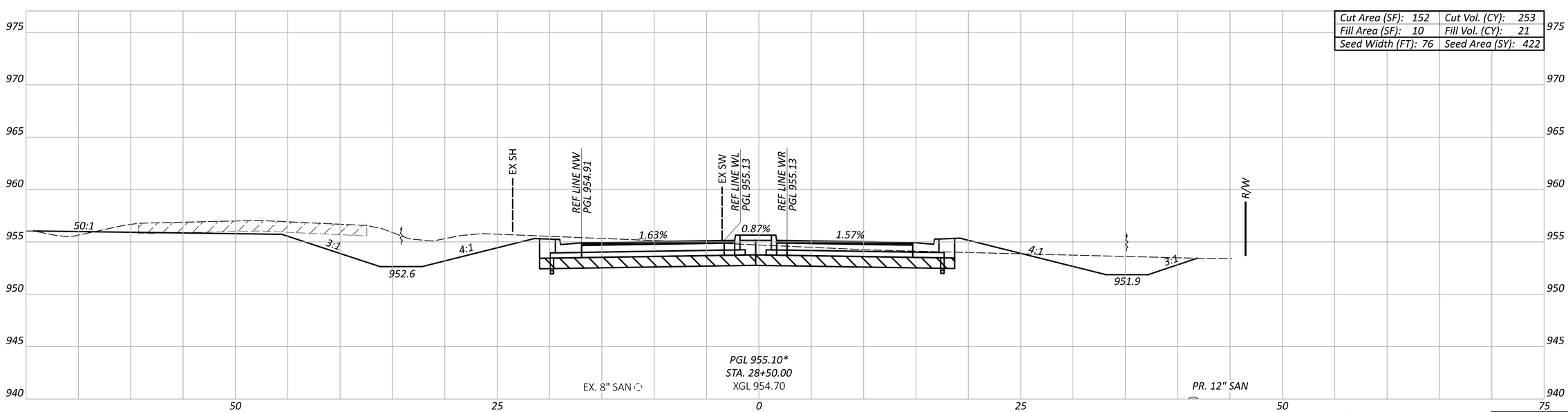
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 192	Cut Vol. (CY): 319
Fill Area (SF): 14	Fill Vol. (CY): 22
Seed Width (FT): 90	Seed Area (SY): 461



Cut Area (SF): 152	Cut Vol. (CY): 253
Fill Area (SF): 10	Fill Vol. (CY): 21
Seed Width (FT): 76	Seed Area (SY): 422

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
883	572	43

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 28+50.00 TO STA 29+00.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 06 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:41 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 53 TOTAL 131

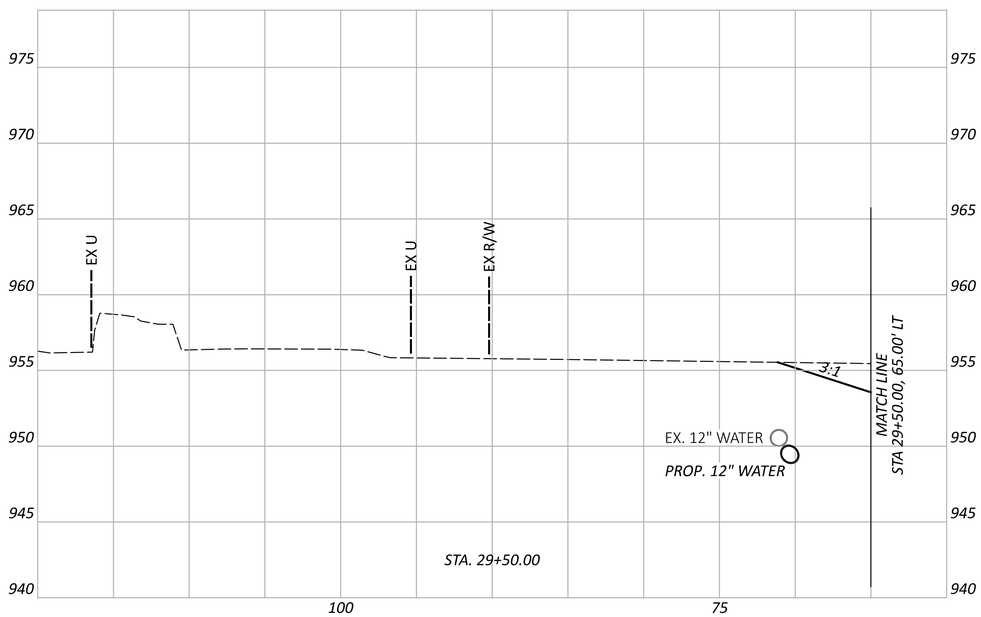
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

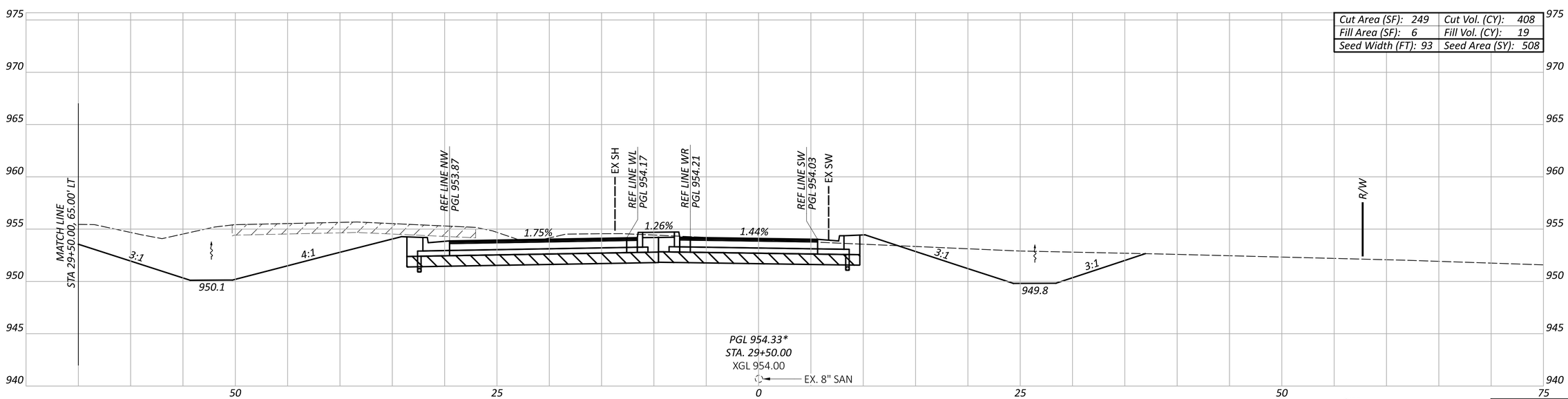
MODEL: XS_Sheet 07 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:46 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





Cut Area (SF): 249	Cut Vol. (CY): 408
Fill Area (SF): 6	Fill Vol. (CY): 19
Seed Width (FT): 93	Seed Area (SY): 508

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
508	408	19

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 29+50.00

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 54 TOTAL 131

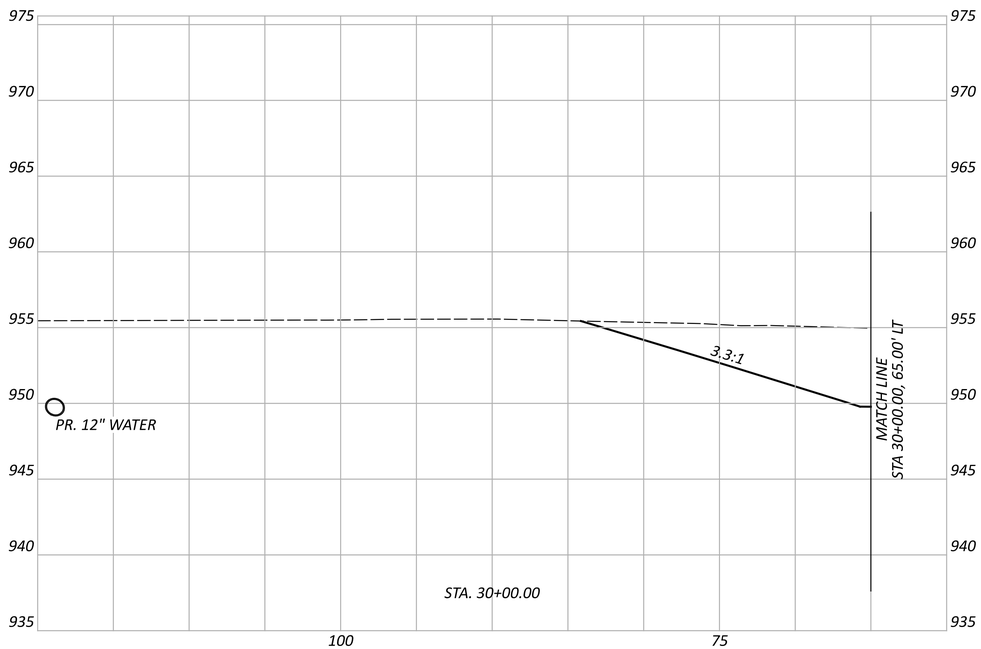
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

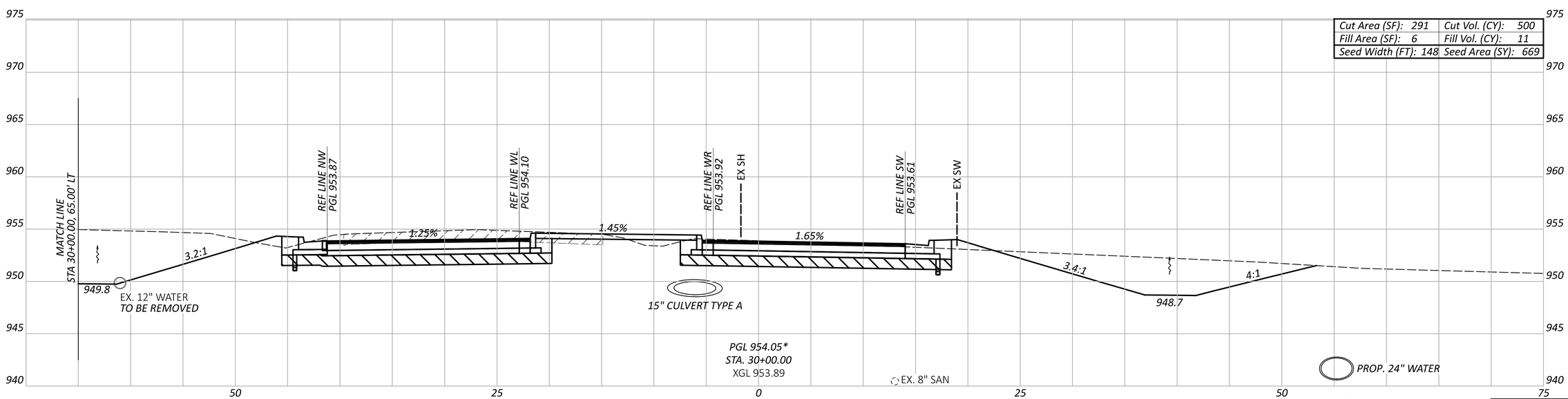
MODEL: XS_Sheet 08 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:52 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





Cut Area (SF): 291	Cut Vol. (CY): 500
Fill Area (SF): 6	Fill Vol. (CY): 11
Seed Width (FT): 148	Seed Area (SY): 669

NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
669	500	11

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 30+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 55 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

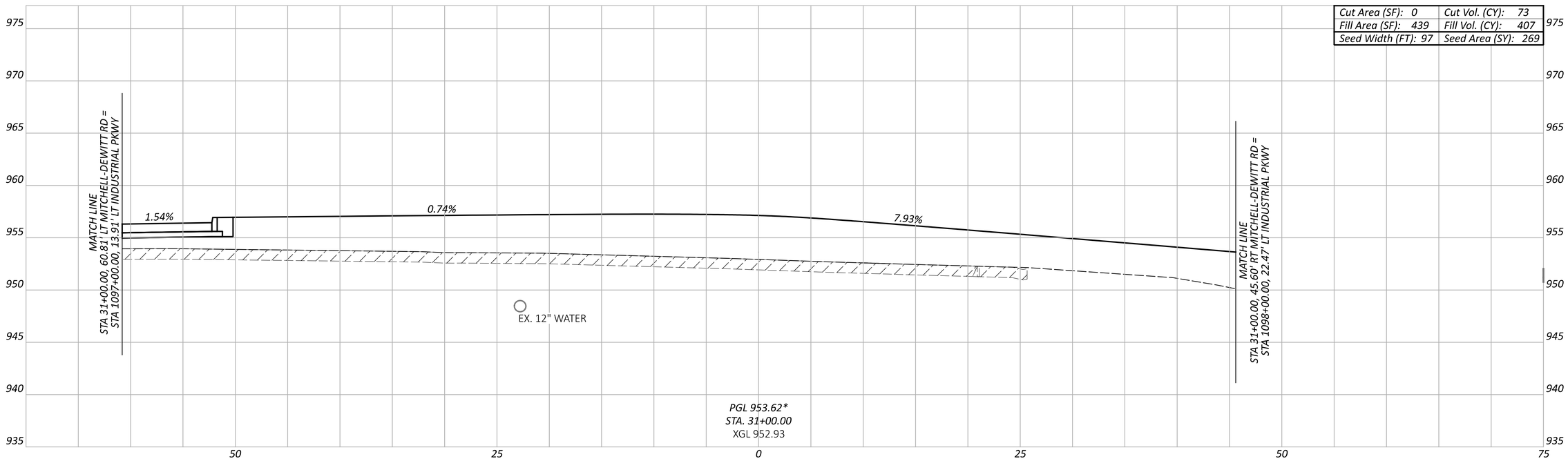
MODEL: XS_Sheet 09 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:08:58 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

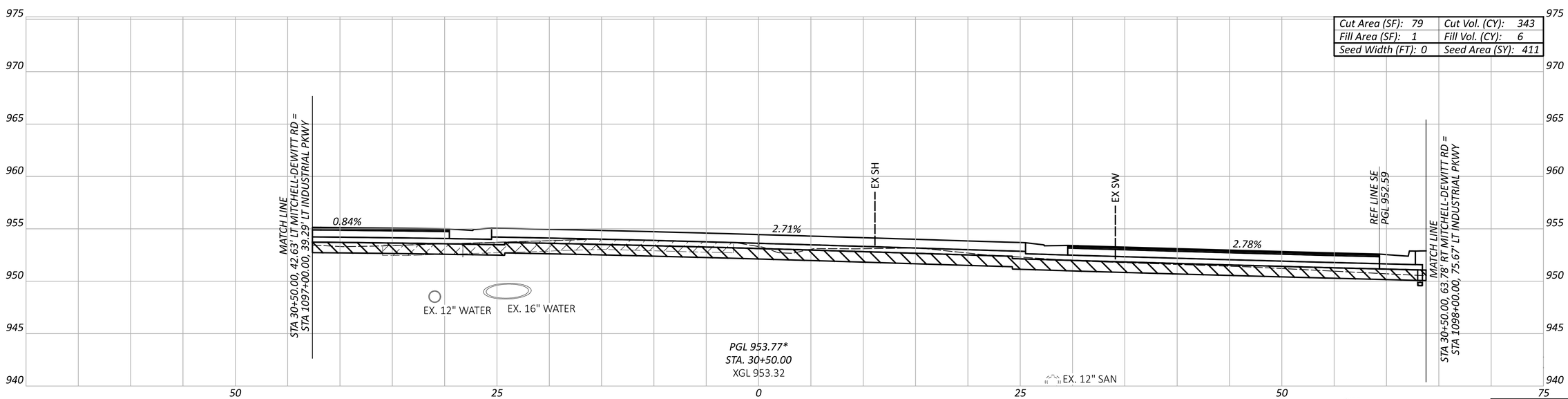
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 0	Cut Vol. (CY): 73
Fill Area (SF): 439	Fill Vol. (CY): 407
Seed Width (FT): 97	Seed Area (SY): 269



Cut Area (SF): 79	Cut Vol. (CY): 343
Fill Area (SF): 1	Fill Vol. (CY): 6
Seed Width (FT): 0	Seed Area (SY): 411



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
680	416	413

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 30+50.00 TO STA 31+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 56 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 10 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:04 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

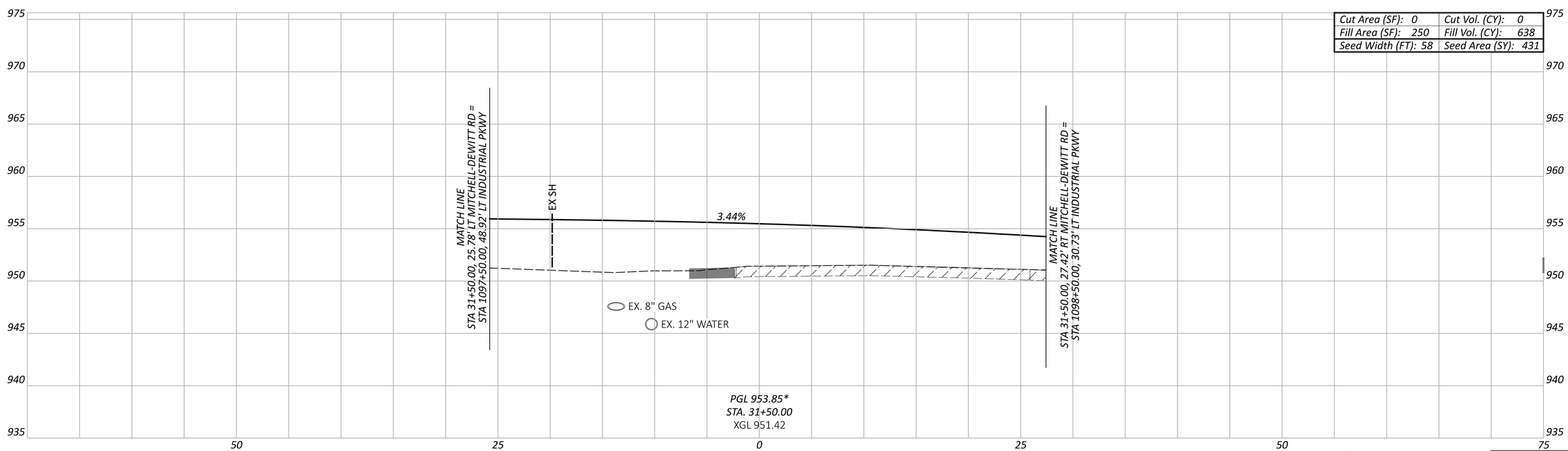
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 250	Fill Vol. (CY): 638
Seed Width (FT): 58	Seed Area (SY): 431



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
431	0	638

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 31+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

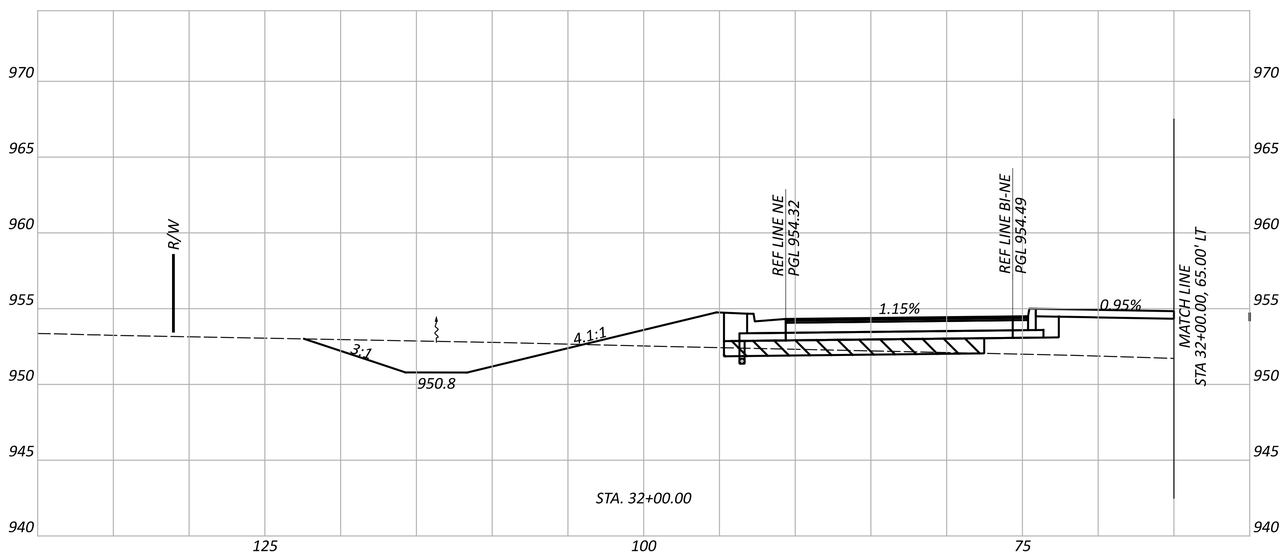
PROJECT ID
2022.01156

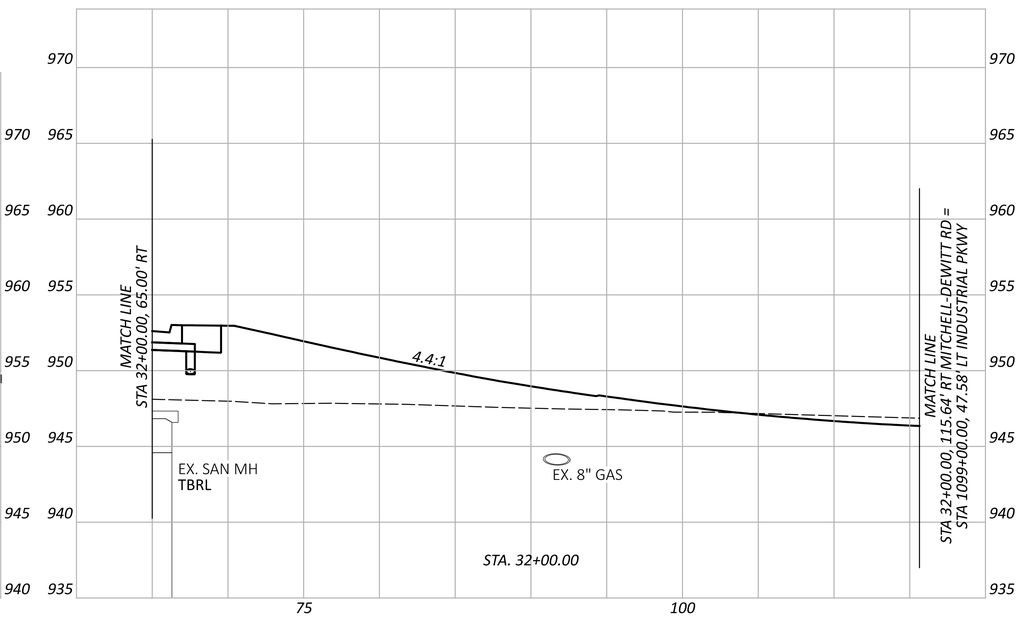
SHEET 57 TOTAL 131

LEGEND

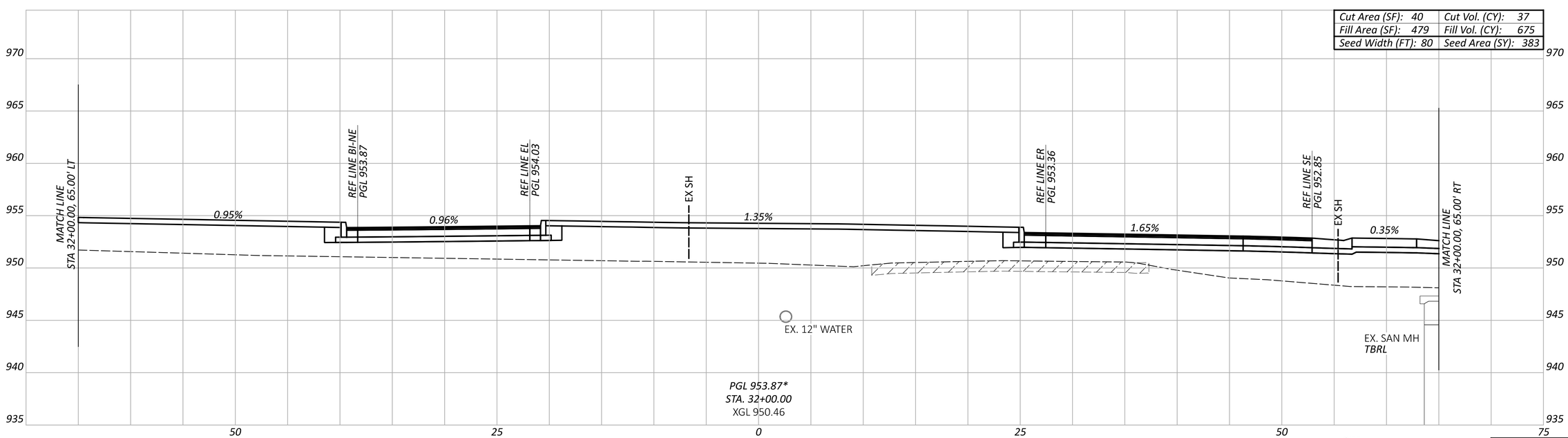
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





Cut Area (SF): 40	Cut Vol. (CY): 37
Fill Area (SF): 479	Fill Vol. (CY): 675
Seed Width (FT): 80	Seed Area (SY): 383



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
383	37	675

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 32+00.00

DESIGN AGENCY: MVE+PARTN STRUCTUREPOINT INC.

DESIGNER: LZS

REVIEWER: KAM 06/02/23

PROJECT ID: 2022.01156

SHEET 58 TOTAL 131

MODEL: XS_Sheet 11 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:07 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

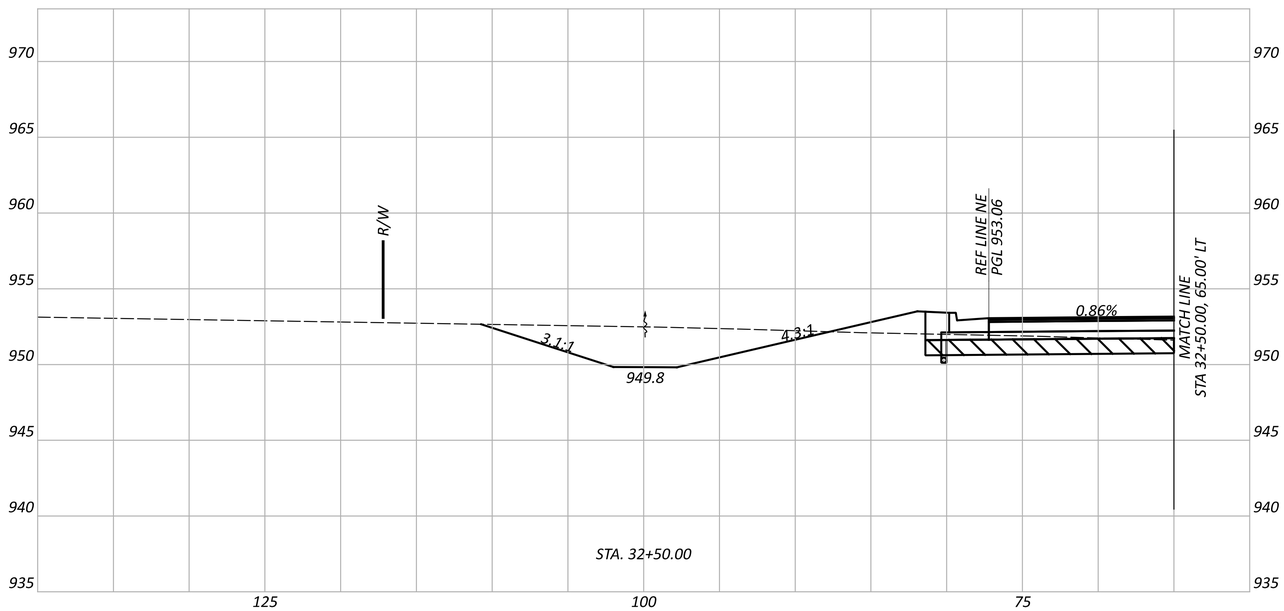
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

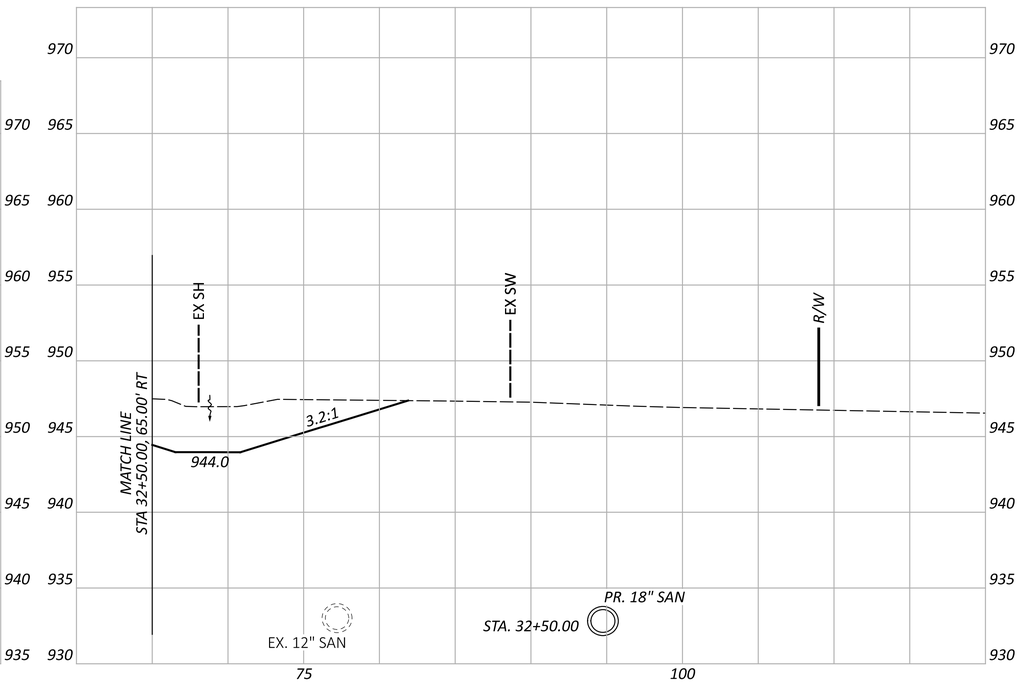
MODEL: XS_Sheet 12 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:17 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

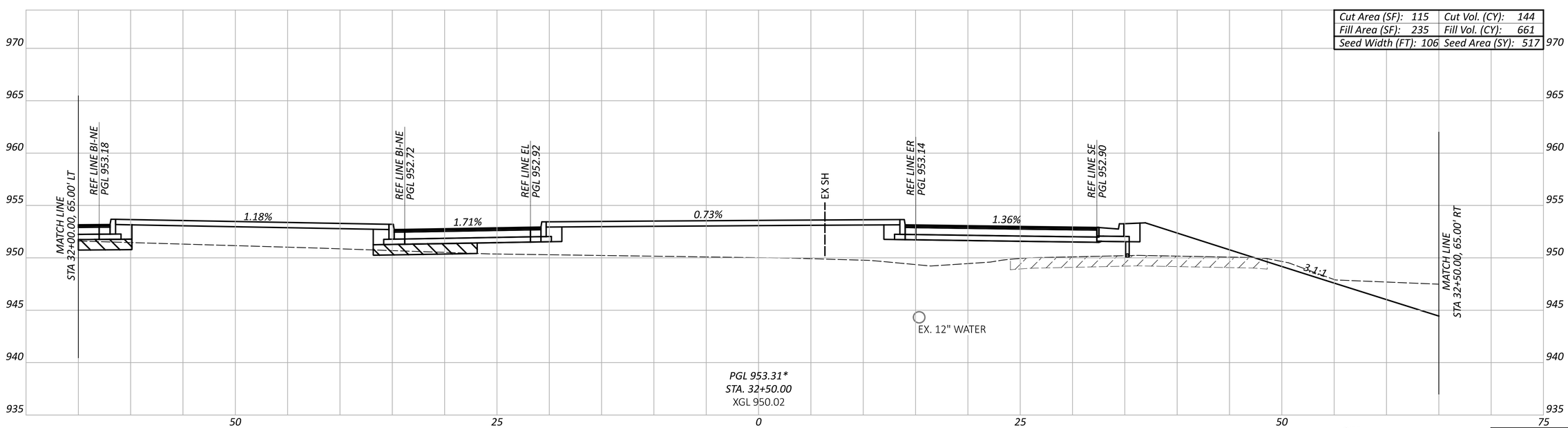
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC





Cut Area (SF): 115	Cut Vol. (CY): 144
Fill Area (SF): 235	Fill Vol. (CY): 661
Seed Width (FT): 106	Seed Area (SY): 517



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
517	144	661

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 32+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 59 TOTAL 131

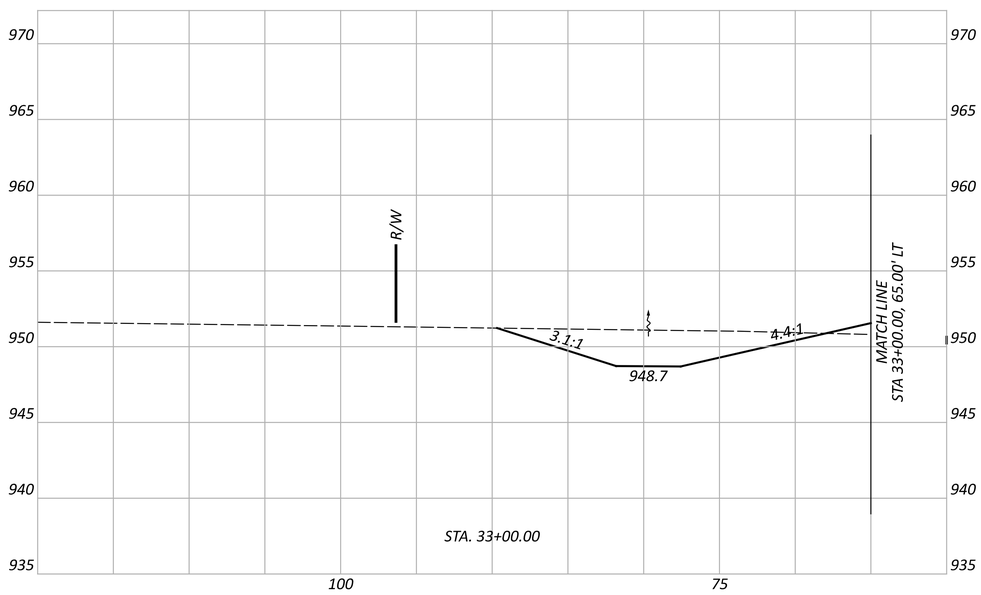
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 13 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:24 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

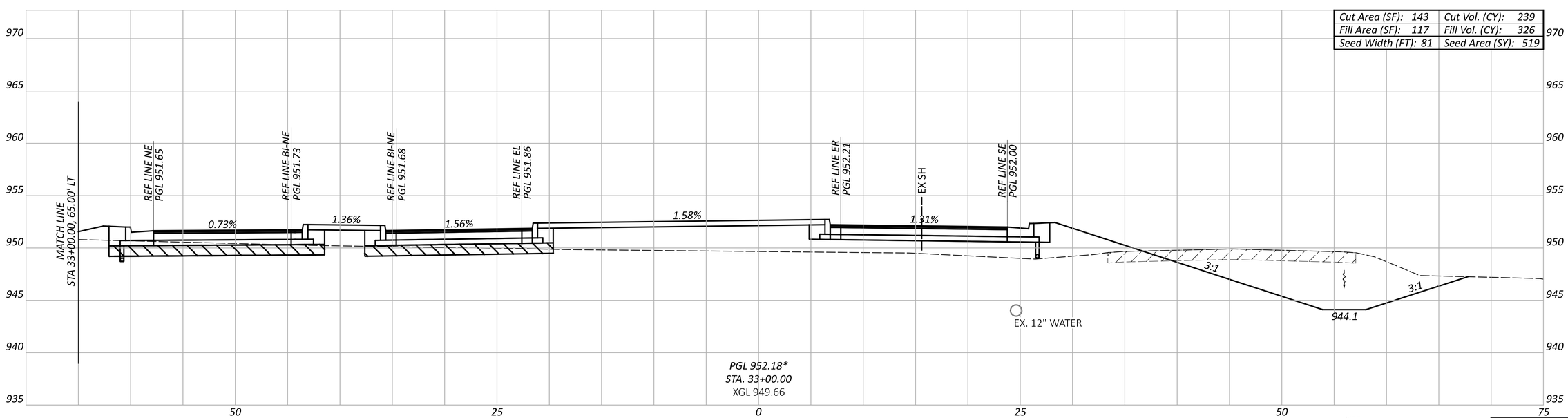
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC



Cut Area (SF): 143	Cut Vol. (CY): 239
Fill Area (SF): 117	Fill Vol. (CY): 326
Seed Width (FT): 81	Seed Area (SY): 519



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
519	239	326

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 33+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 60 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

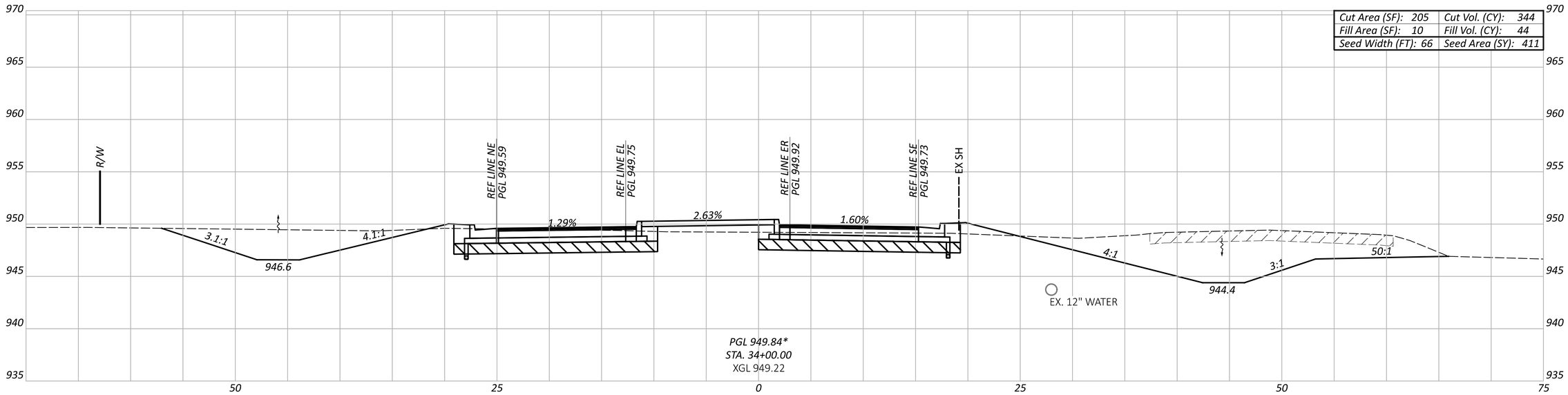
MODEL: XS_Sheet 14 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:31 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

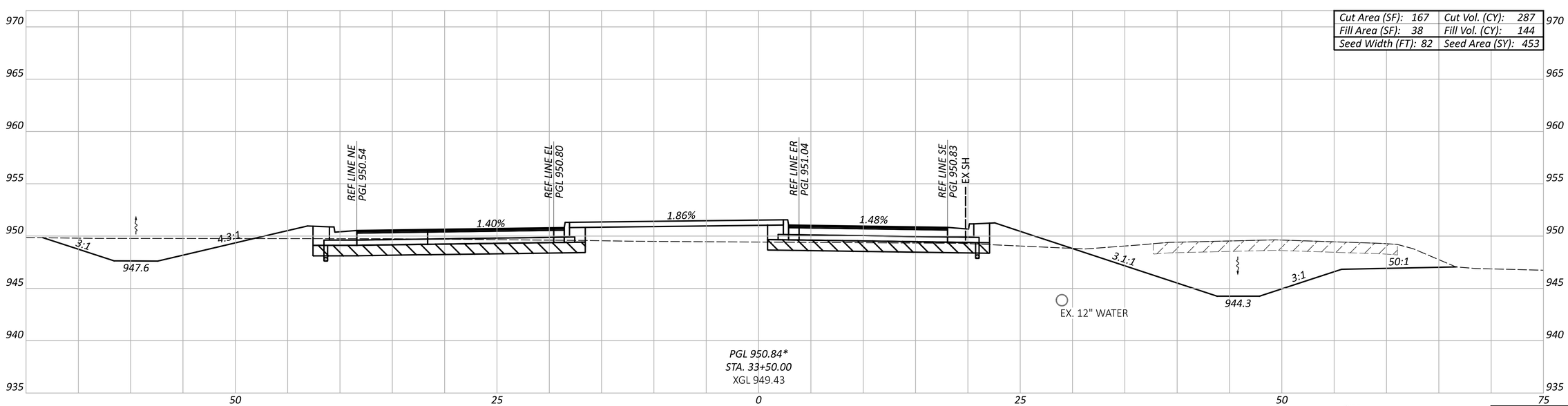
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 205	Cut Vol. (CY): 344
Fill Area (SF): 10	Fill Vol. (CY): 44
Seed Width (FT): 66	Seed Area (SY): 411



Cut Area (SF): 167	Cut Vol. (CY): 287
Fill Area (SF): 38	Fill Vol. (CY): 144
Seed Width (FT): 82	Seed Area (SY): 453



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
864	631	188

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 33+50.00 TO STA 34+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

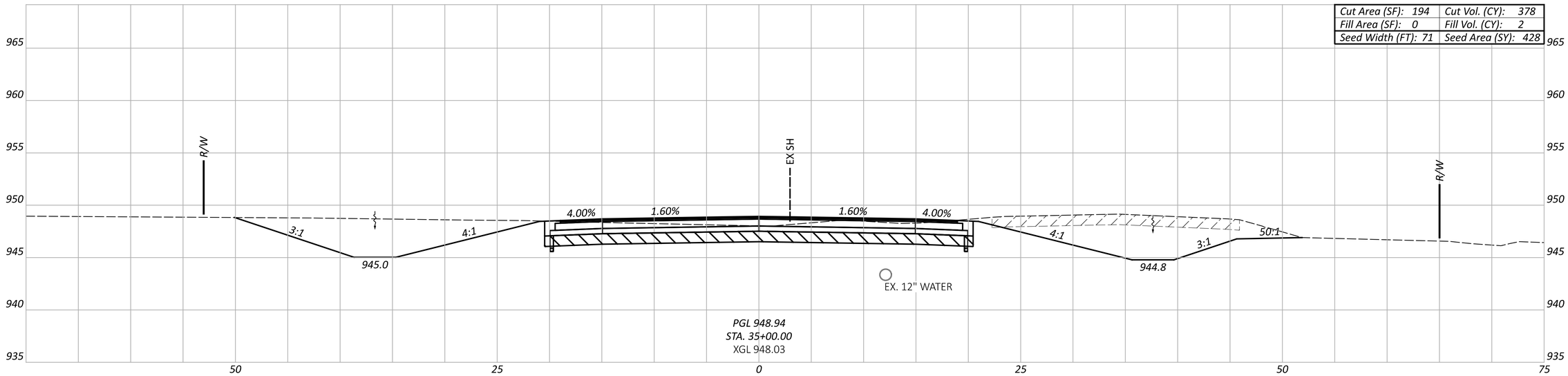
SHEET 61 TOTAL 131

LEGEND

EX PAVEMENT TO BE REMOVED

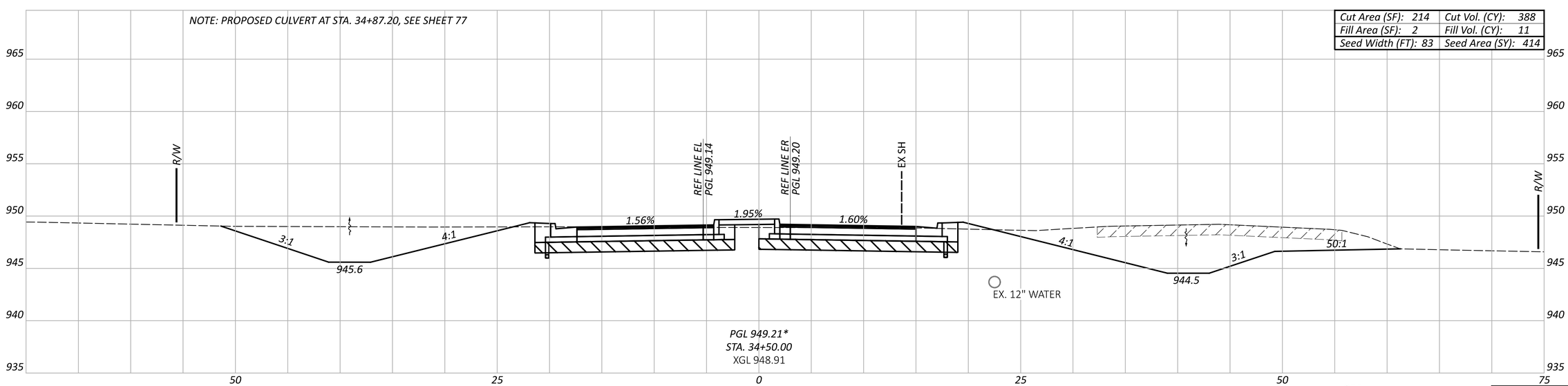
ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 194	Cut Vol. (CY): 378
Fill Area (SF): 0	Fill Vol. (CY): 2
Seed Width (FT): 71	Seed Area (SY): 428



NOTE: PROPOSED CULVERT AT STA. 34+87.20, SEE SHEET 77

Cut Area (SF): 214	Cut Vol. (CY): 388
Fill Area (SF): 2	Fill Vol. (CY): 11
Seed Width (FT): 83	Seed Area (SY): 414



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
842	766	13

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 15 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:36 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 34+50.00 TO STA 35+00.00

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

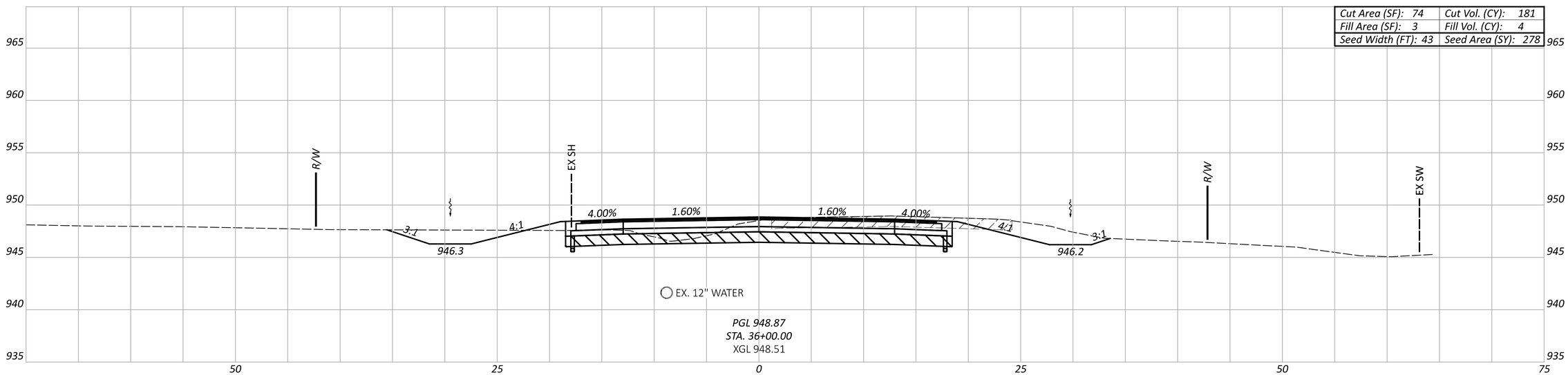
SHEET 62 TOTAL 131

LEGEND

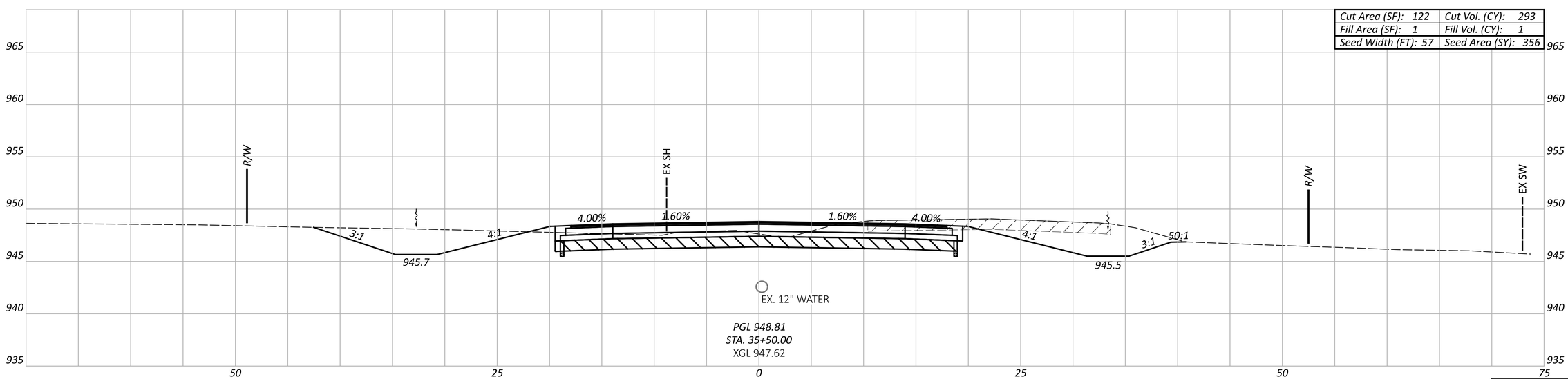
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 74	Cut Vol. (CY): 181
Fill Area (SF): 3	Fill Vol. (CY): 4
Seed Width (FT): 43	Seed Area (SY): 278



Cut Area (SF): 122	Cut Vol. (CY): 293
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT): 57	Seed Area (SY): 356



Sheet Totals		
Seeding	Cut	Fill
634	474	5

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 16 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:41 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 35+50.00 TO STA 36+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
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REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

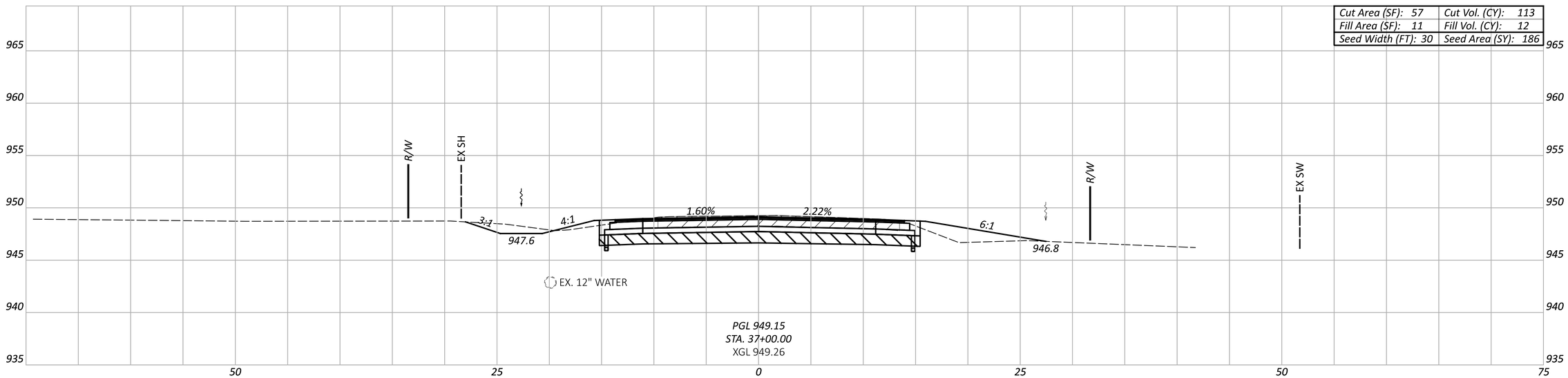
SHEET 63 TOTAL 131

LEGEND

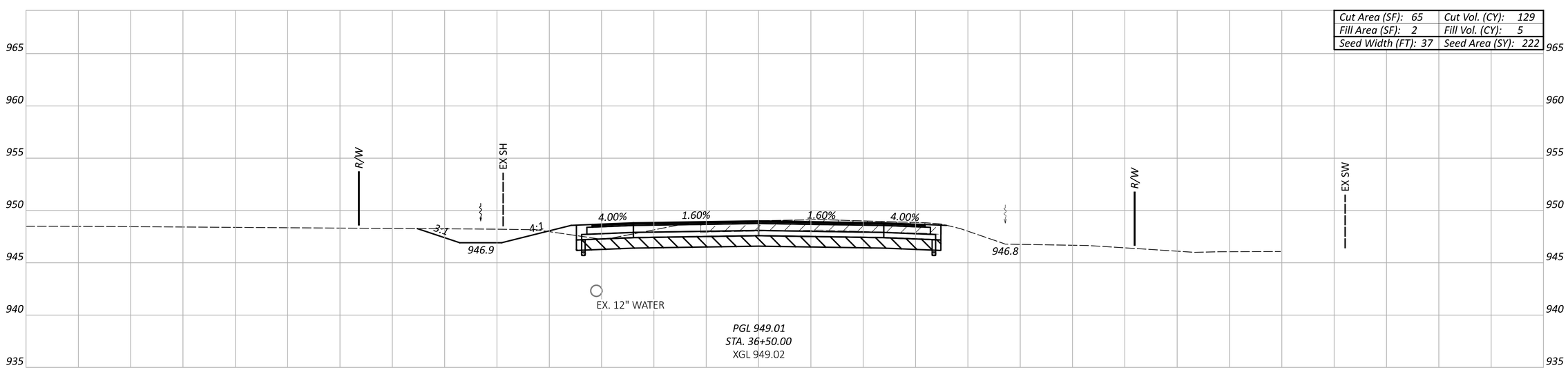
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 57	Cut Vol. (CY): 113
Fill Area (SF): 11	Fill Vol. (CY): 12
Seed Width (FT): 30	Seed Area (SY): 186



Cut Area (SF): 65	Cut Vol. (CY): 129
Fill Area (SF): 2	Fill Vol. (CY): 5
Seed Width (FT): 37	Seed Area (SY): 222



Sheet Totals		
Seeding	Cut	Fill
408	242	17

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 17 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:47 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 36+50.00 TO STA 37+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

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PROJECT ID
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SHEET 64 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

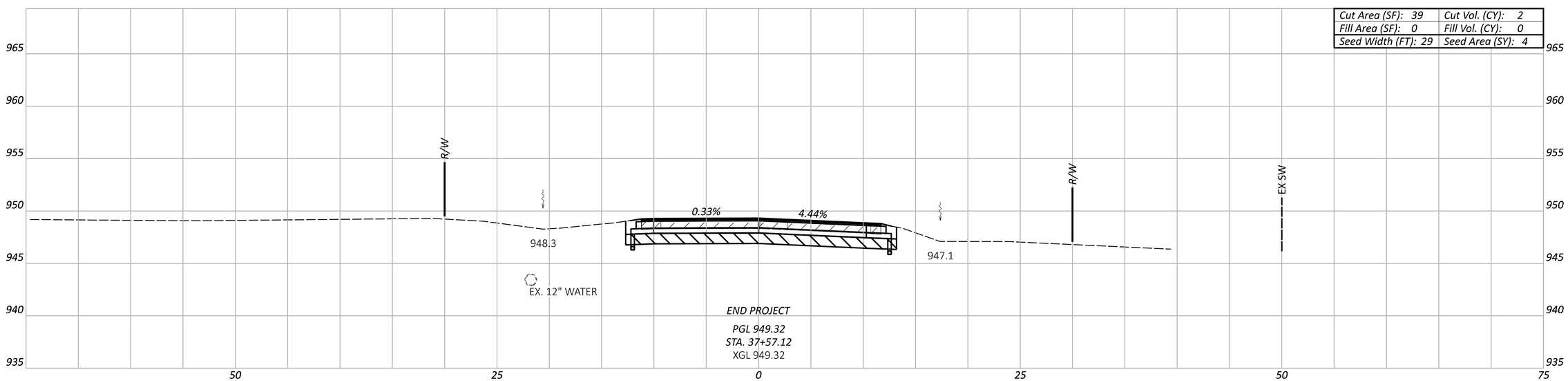
MODEL: XS_Sheet 18 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:52 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

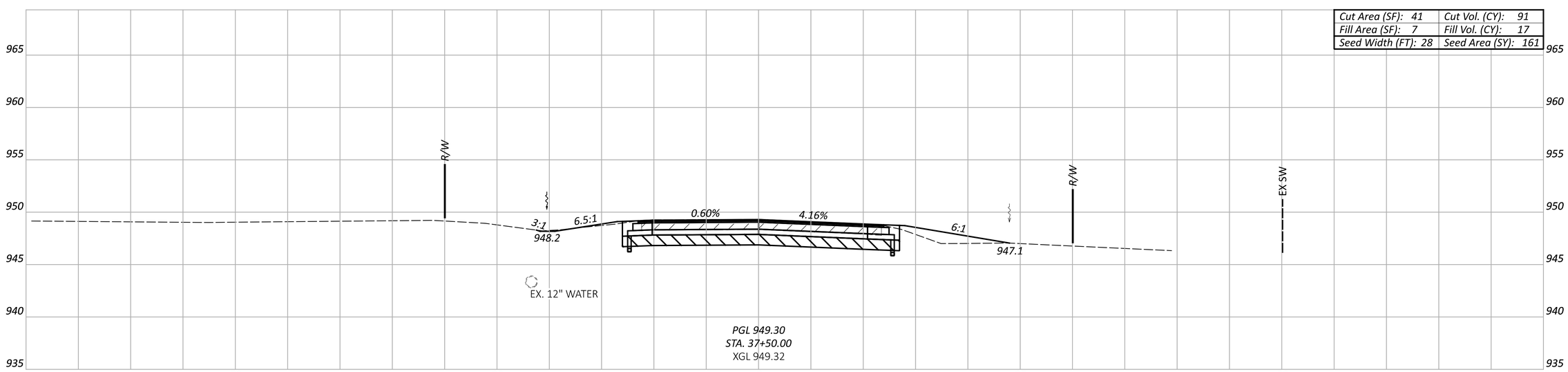
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 39	Cut Vol. (CY): 2
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 29	Seed Area (SY): 4



Cut Area (SF): 41	Cut Vol. (CY): 91
Fill Area (SF): 7	Fill Vol. (CY): 17
Seed Width (FT): 28	Seed Area (SY): 161



Sheet Totals		
Seeding	Cut	Fill
165	91	17

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 37+50.00 TO STA 37+57.12

DESIGN AGENCY
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PROJECT ID
2022.01156

SHEET 65 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

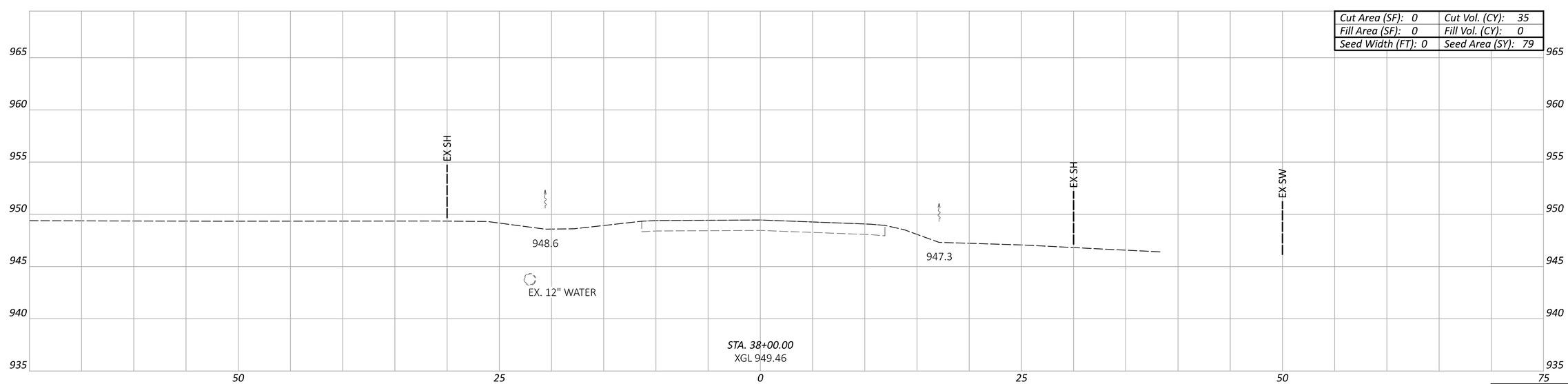
MODEL: XS_Sheet 19 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:09:56 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS100.dgn

LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

Cut Area (SF): 0	*Cut Vol. (CY): 35*
Fill Area (SF): 0	*Fill Vol. (CY): 0*
Seed Width (FT): 0	*Seed Area (SY): 79*



Sheet Totals		
Seeding	Cut	Fill
79	35	0

CROSS SECTIONS - MITCHELL-DEWITT RD
STA 38+00.00

DESIGN AGENCY
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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 66 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 01 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:10:09 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

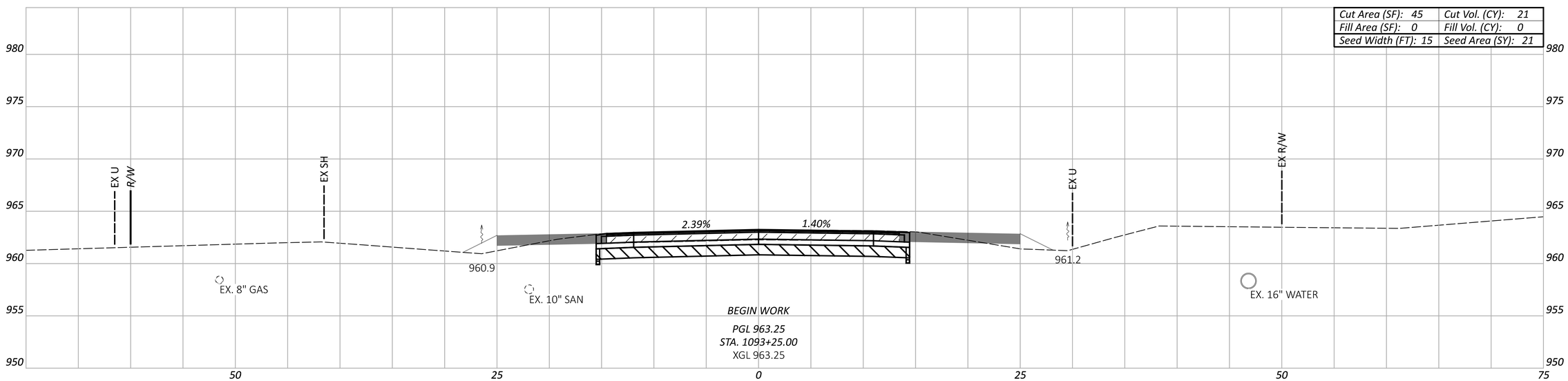
LEGEND

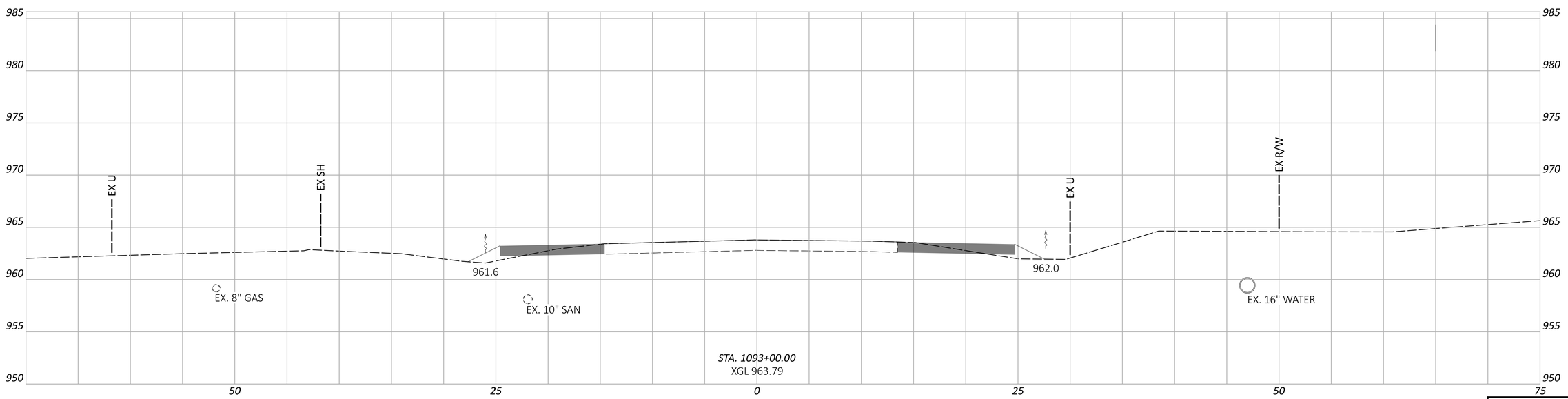
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 45	Cut Vol. (CY): 21
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 15	Seed Area (SY): 21





Sheet Totals		
Seeding	Cut	Fill
21	21	0

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1093+00.00 TO STA 1093+25.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 67 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 02 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:10:16 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

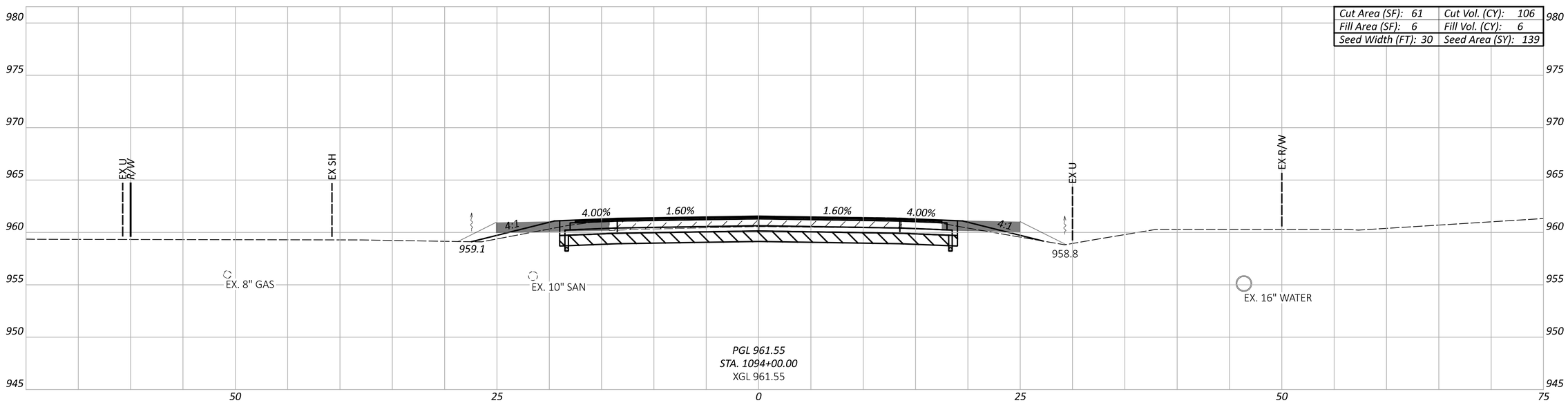
LEGEND

EX PAVEMENT TO BE REMOVED

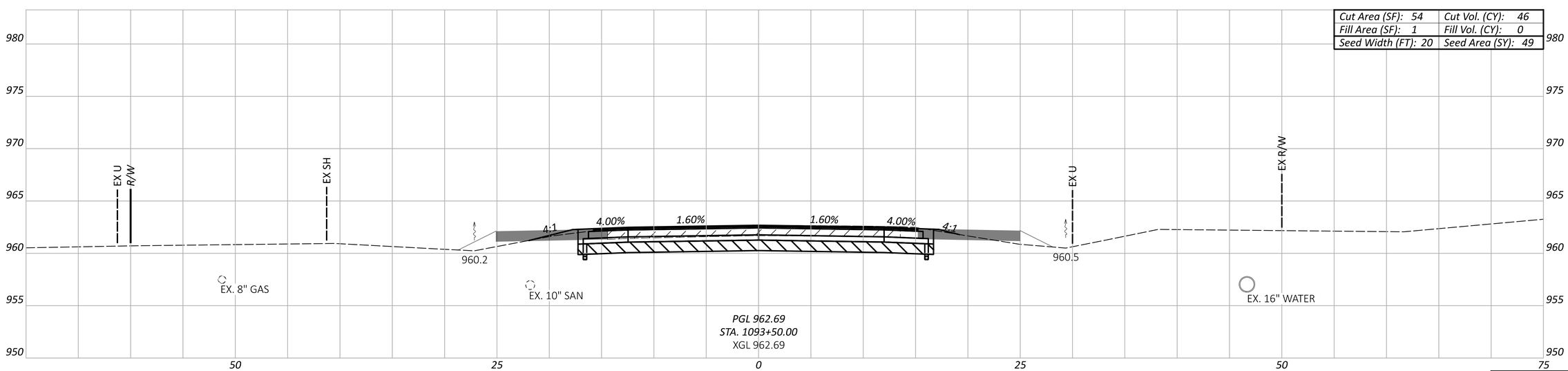
ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 61	Cut Vol. (CY): 106
Fill Area (SF): 6	Fill Vol. (CY): 6
Seed Width (FT): 30	Seed Area (SY): 139



Cut Area (SF): 54	Cut Vol. (CY): 46
Fill Area (SF): 1	Fill Vol. (CY): 0
Seed Width (FT): 20	Seed Area (SY): 49



Sheet Totals		
Seeding	Cut	Fill
188	152	6

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1093+50.00 TO STA 1094+00.00

DESIGN AGENCY
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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 68 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 03 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:10:22 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

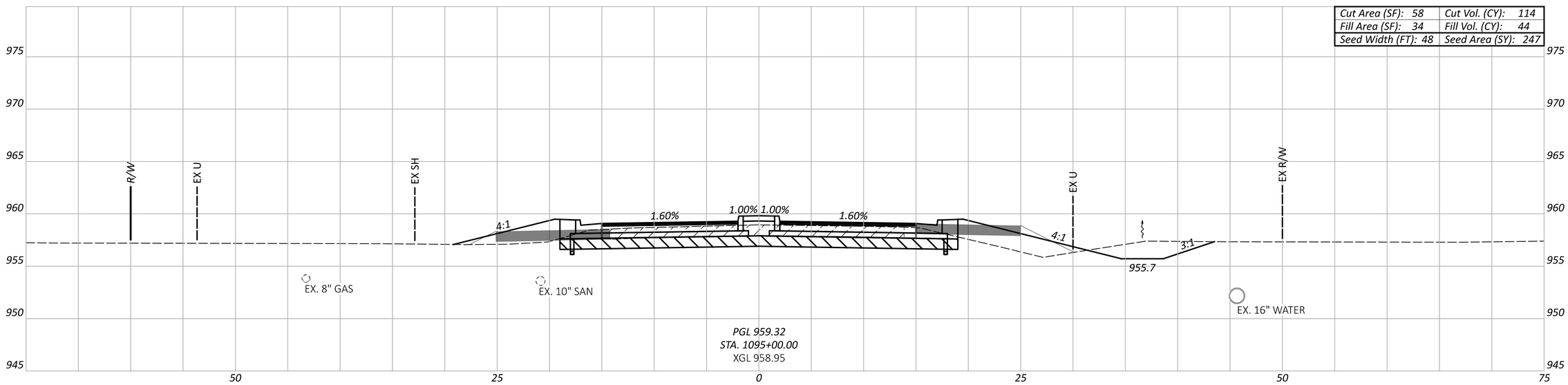
LEGEND

EX PAVEMENT TO BE REMOVED

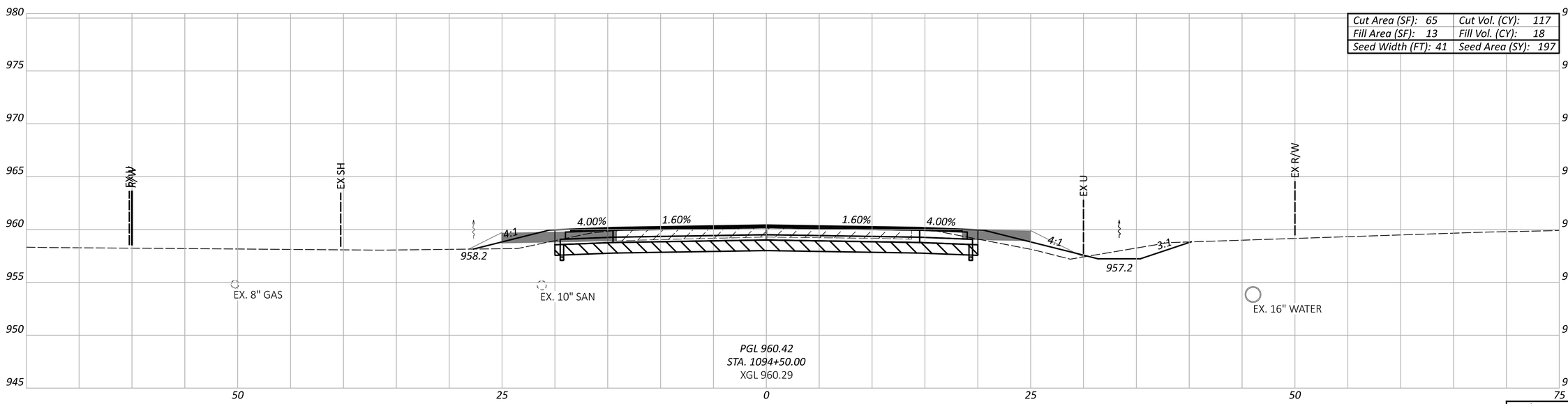
ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 58	Cut Vol. (CY): 114
Fill Area (SF): 34	Fill Vol. (CY): 44
Seed Width (FT): 48	Seed Area (SY): 247



Cut Area (SF): 65	Cut Vol. (CY): 117
Fill Area (SF): 13	Fill Vol. (CY): 18
Seed Width (FT): 41	Seed Area (SY): 197



Sheet Totals		
Seeding	Cut	Fill
444	231	62

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1094+50.00 TO STA 1095+00.00

DESIGN AGENCY
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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 69 TOTAL 131

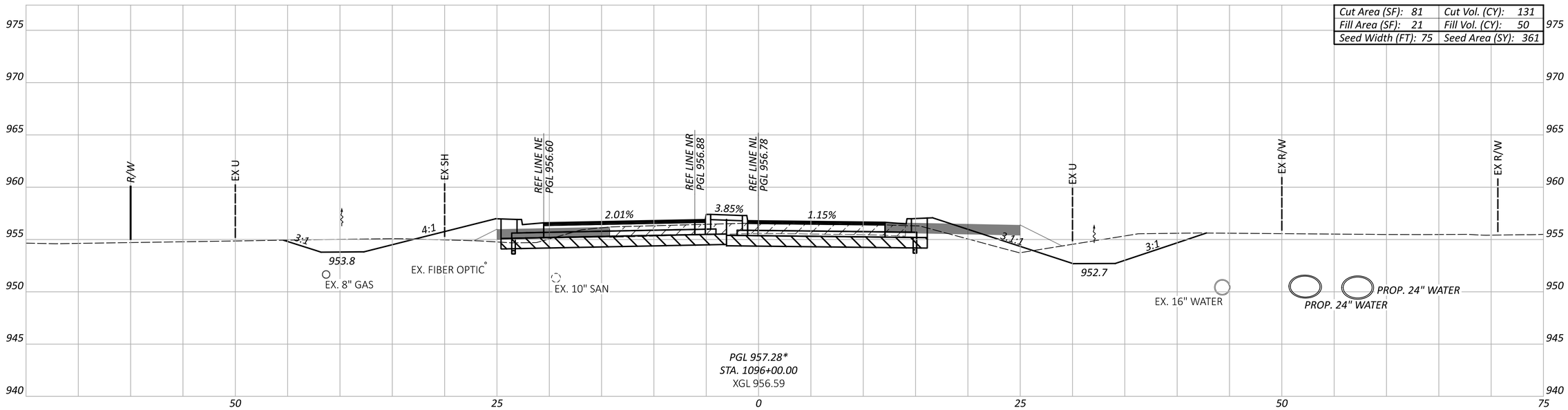
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 04 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:10:28 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

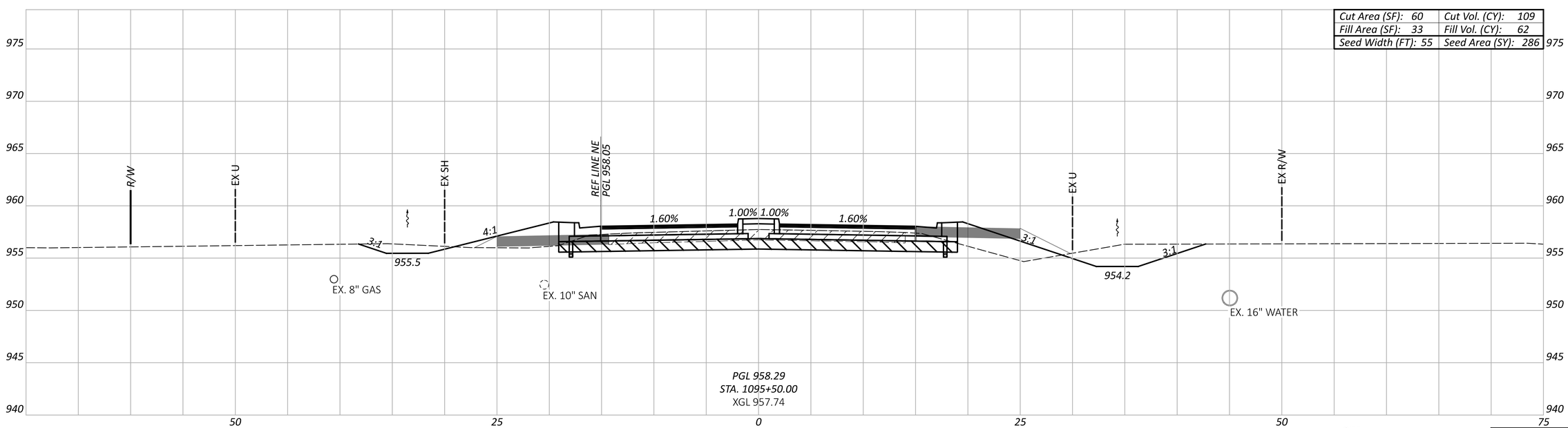
LEGEND

- EX PAVEMENT TO BE REMOVED
- ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
  ITEM 204 - GRANULAR MATERIAL, TYPE B
  ITEM 204 - GEOTEXTILE FABRIC
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 81	Cut Vol. (CY): 131
Fill Area (SF): 21	Fill Vol. (CY): 50
Seed Width (FT): 75	Seed Area (SY): 361



Cut Area (SF): 60	Cut Vol. (CY): 109
Fill Area (SF): 33	Fill Vol. (CY): 62
Seed Width (FT): 55	Seed Area (SY): 286



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
647	240	112

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1095+50.00 TO STA 1096+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

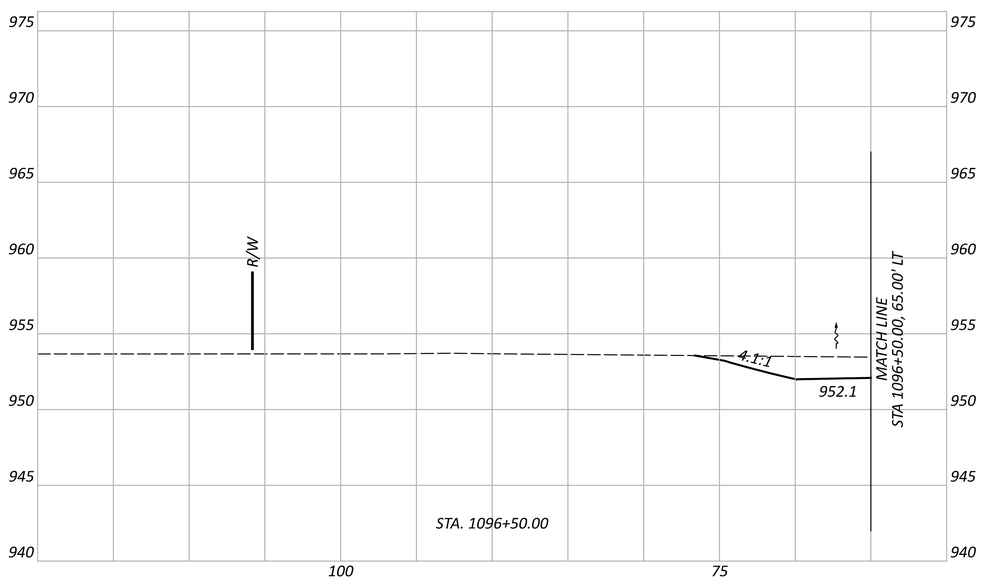
SHEET 70 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

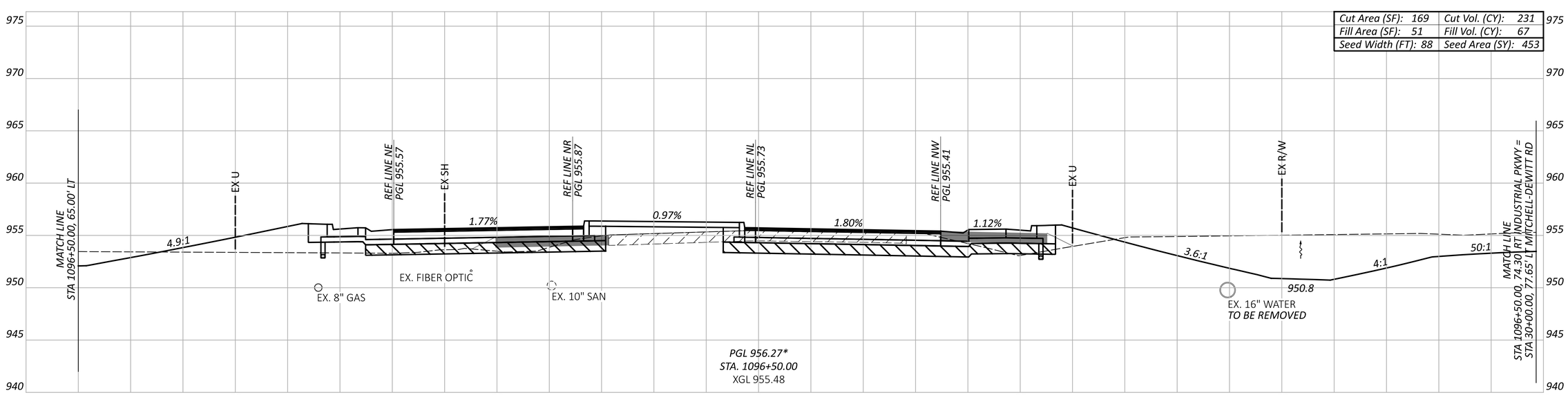
MODEL: XS_Sheet 05 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:10:35 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

LEGEND

- EX PAVEMENT TO BE REMOVED
- ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
  ITEM 204 - GRANULAR MATERIAL, TYPE B
  ITEM 204 - GEOTEXTILE FABRIC
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Cut Area (SF): 169	Cut Vol. (CY): 231
Fill Area (SF): 51	Fill Vol. (CY): 67
Seed Width (FT): 88	Seed Area (SY): 453



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
414	231	67

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1096+50.00

DESIGN AGENCY
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KAM 06/02/23

PROJECT ID
2022.01156

SHEET 71 TOTAL 131

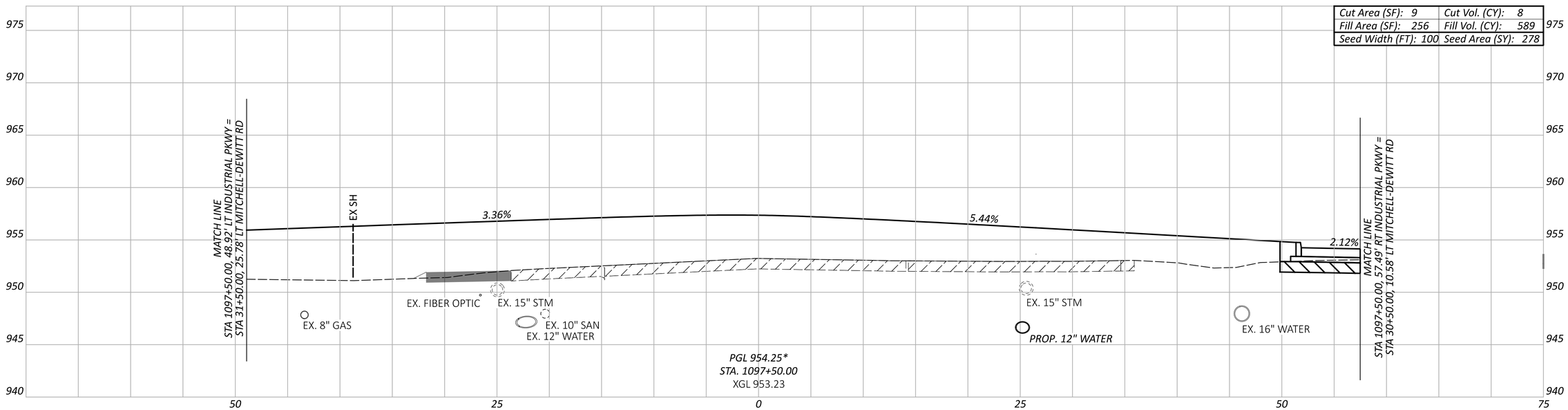
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 06 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:10:41 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

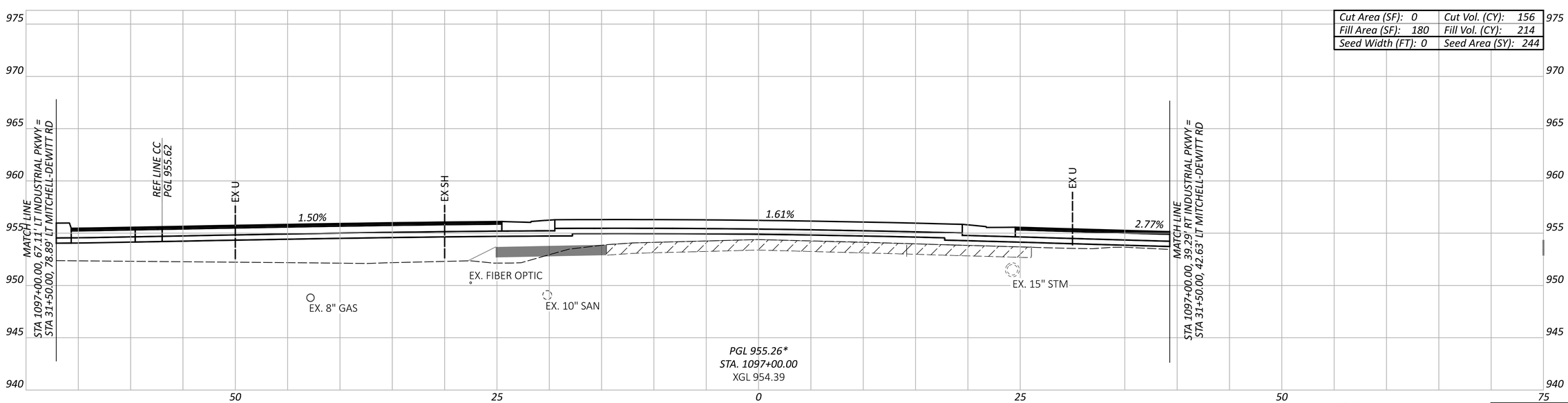
LEGEND

- EX PAVEMENT TO BE REMOVED
- ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
  ITEM 204 - GRANULAR MATERIAL, TYPE B
  ITEM 204 - GEOTEXTILE FABRIC
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 9	Cut Vol. (CY): 8
Fill Area (SF): 256	Fill Vol. (CY): 589
Seed Width (FT): 100	Seed Area (SY): 278



Cut Area (SF): 0	Cut Vol. (CY): 156
Fill Area (SF): 180	Fill Vol. (CY): 214
Seed Width (FT): 0	Seed Area (SY): 244



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
522	164	803

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1097+00.00 TO STA 1097+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 72 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 07 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:10:49 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

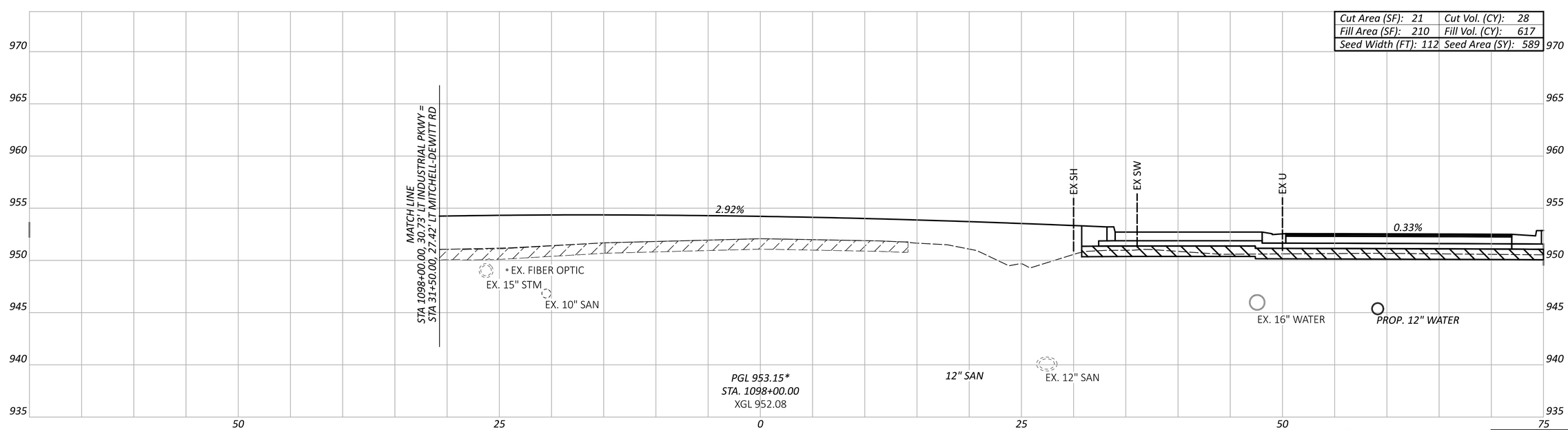
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 21	*Cut Vol. (CY): 28*
Fill Area (SF): 210	*Fill Vol. (CY): 617*
Seed Width (FT): 112	*Seed Area (SY): 589*



NOTE:

** FOR INFORMATION ONLY*

Sheet Totals		
Seeding	Cut	Fill
589	28	617

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1098+00.00

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 73 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

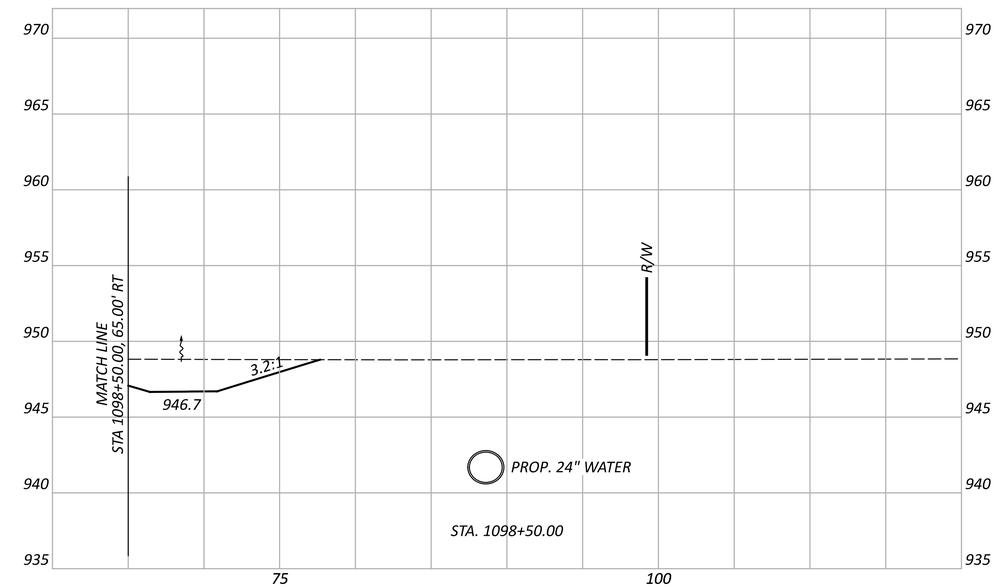
MODEL: XS_Sheet 08 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:10:54 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

LEGEND

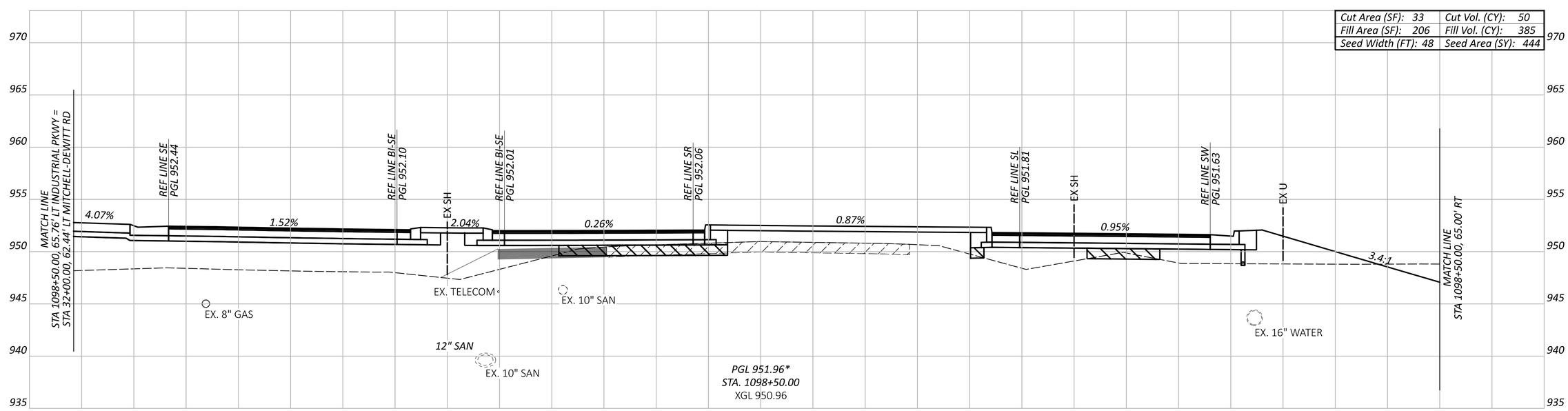
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Cut Area (SF): 33	Cut Vol. (CY): 50
Fill Area (SF): 206	Fill Vol. (CY): 385
Seed Width (FT): 48	Seed Area (SY): 444



NOTE:

** FOR INFORMATION ONLY*

Sheet Totals		
Seeding	Cut	Fill
444	50	385

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1098+50.00

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 74 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 09 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:11:01 PM USER: lstutler
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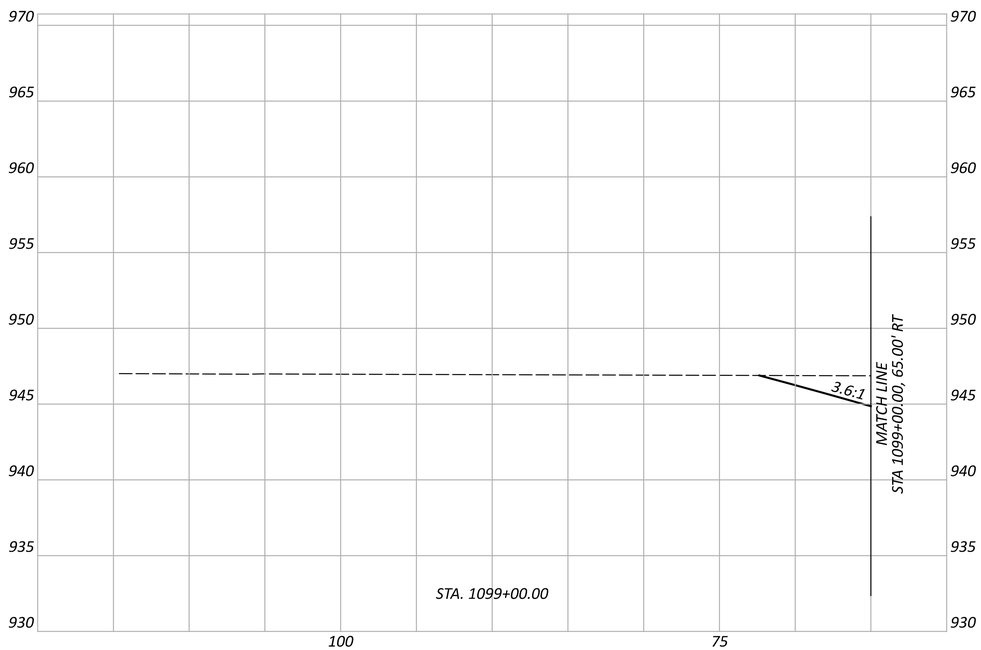
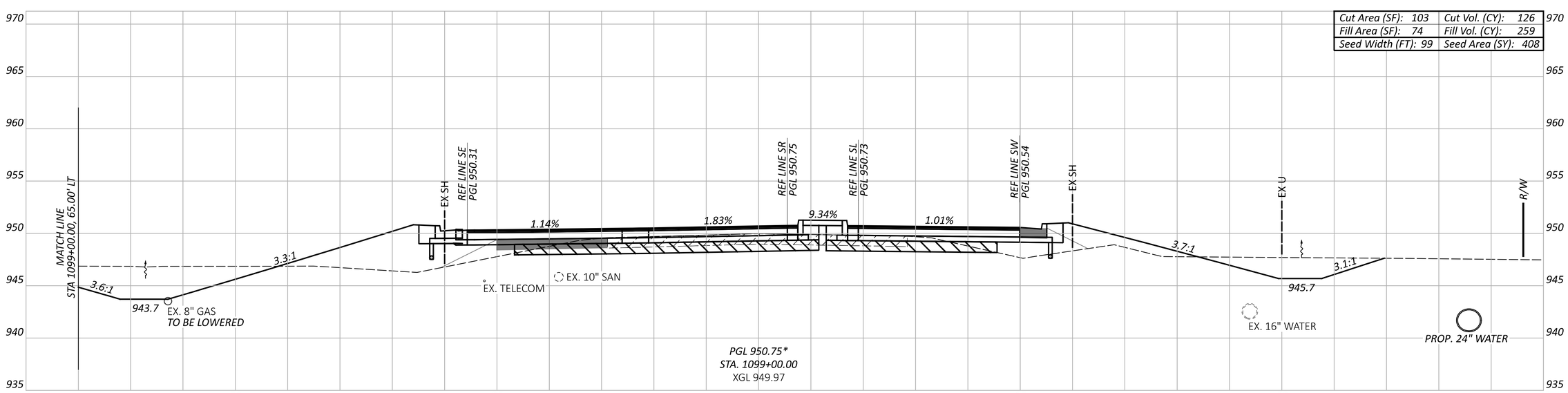
LEGEND

EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B





Cut Area (SF): 103	Cut Vol. (CY): 126
Fill Area (SF): 74	Fill Vol. (CY): 259
Seed Width (FT): 99	Seed Area (SY): 408

NOTE:

** FOR INFORMATION ONLY*

Sheet Totals		
Seeding	Cut	Fill
408	126	259

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1099+00.00

DESIGN AGENCY
MVR-PEAUN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 75 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 10 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:11:08 PM USER: lstutler
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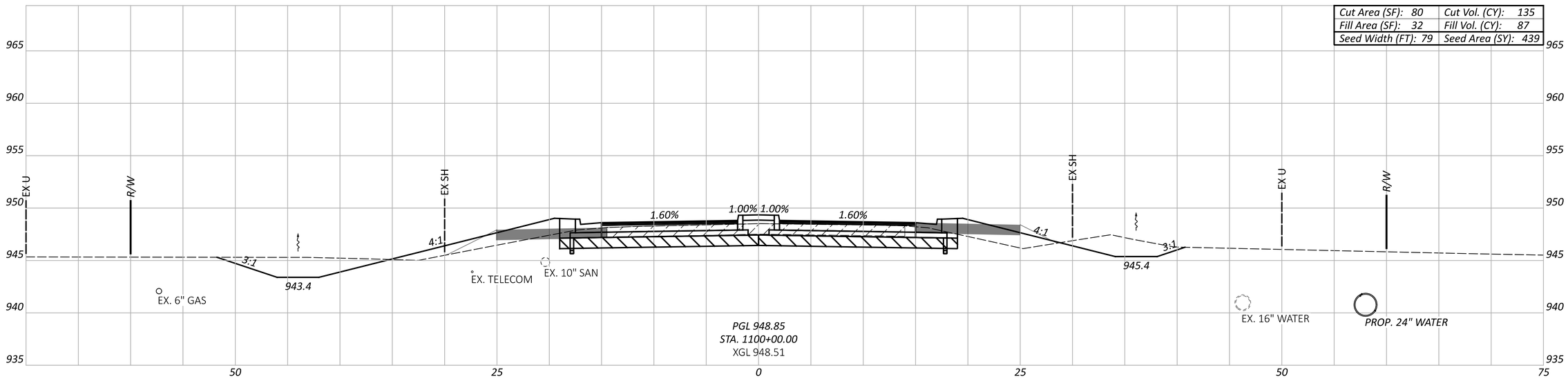
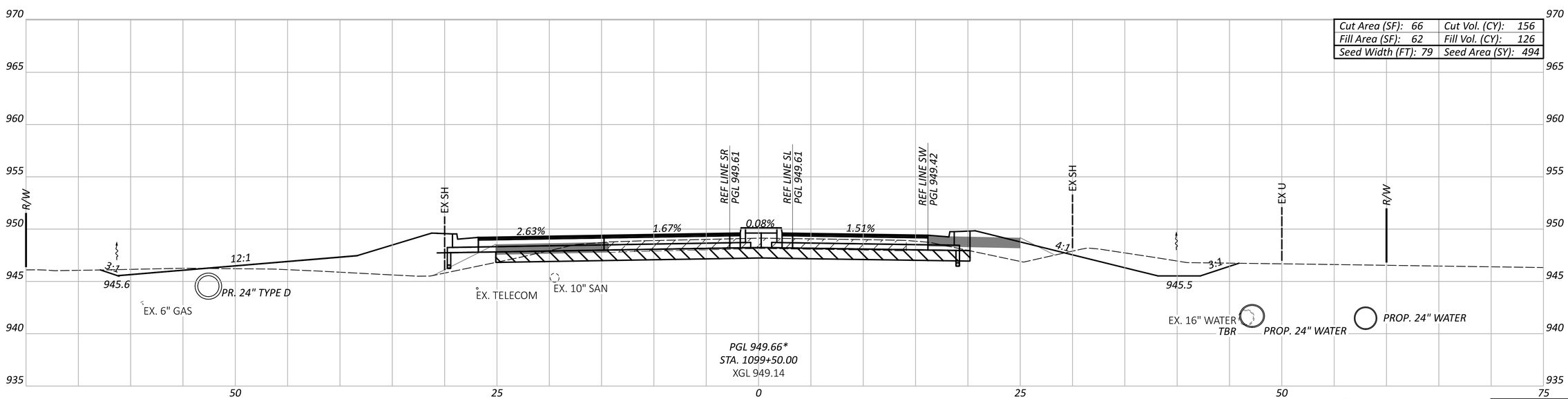
LEGEND

- EX PAVEMENT TO BE REMOVED
- ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
  ITEM 204 - GRANULAR MATERIAL, TYPE B
  ITEM 204 - GEOTEXTILE FABRIC
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 80	Cut Vol. (CY): 135
Fill Area (SF): 32	Fill Vol. (CY): 87
Seed Width (FT): 79	Seed Area (SY): 439



Cut Area (SF): 66	Cut Vol. (CY): 156
Fill Area (SF): 62	Fill Vol. (CY): 126
Seed Width (FT): 79	Seed Area (SY): 494



NOTE:

* FOR INFORMATION ONLY

Sheet Totals		
Seeding	Cut	Fill
933	291	213

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1099+50.00 TO STA 1100+00.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 76 TOTAL 131

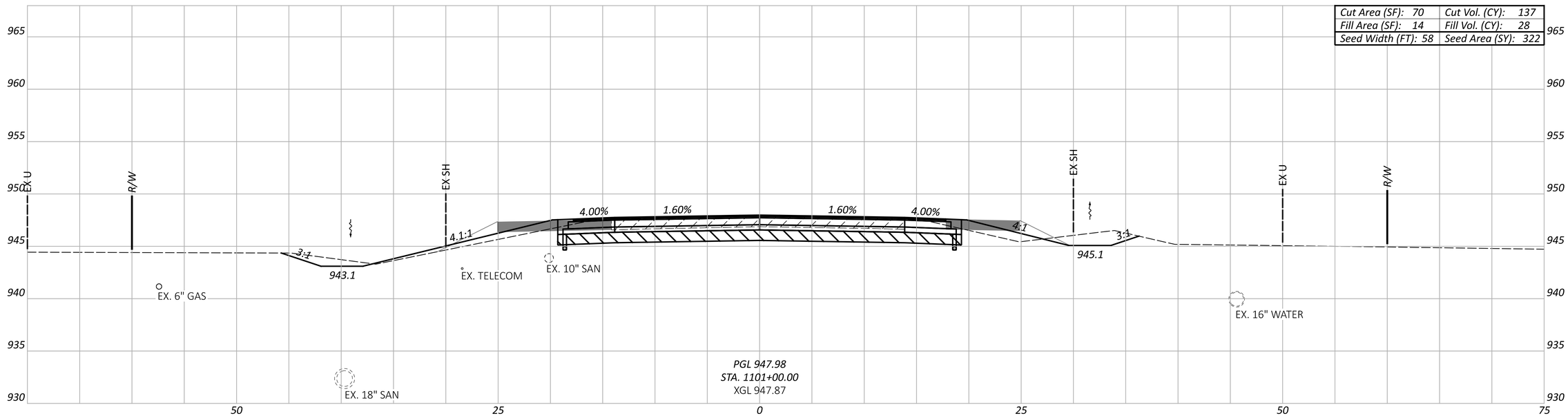
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 11 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:11:14 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

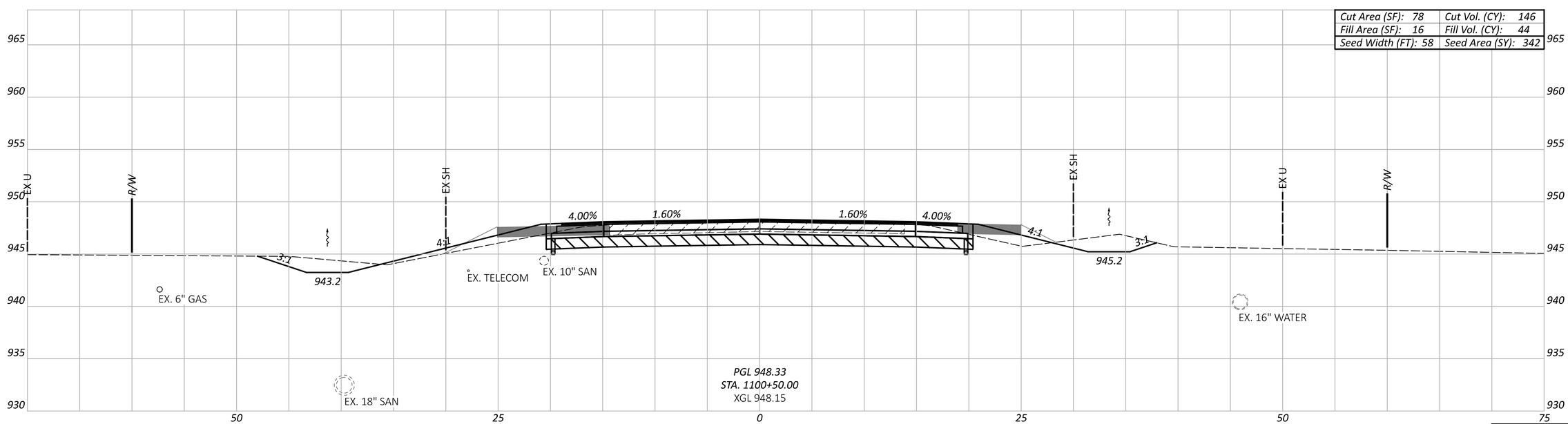
LEGEND

- EX PAVEMENT TO BE REMOVED
- ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
  ITEM 204 - GRANULAR MATERIAL, TYPE B
  ITEM 204 - GEOTEXTILE FABRIC
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 70	Cut Vol. (CY): 137
Fill Area (SF): 14	Fill Vol. (CY): 28
Seed Width (FT): 58	Seed Area (SY): 322



Cut Area (SF): 78	Cut Vol. (CY): 146
Fill Area (SF): 16	Fill Vol. (CY): 44
Seed Width (FT): 58	Seed Area (SY): 342



Sheet Totals		
Seeding	Cut	Fill
703	283	72

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1100+50.00 TO STA 1101+00.00

DESIGN AGENCY
MPE/EEJN
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 77 TOTAL 131

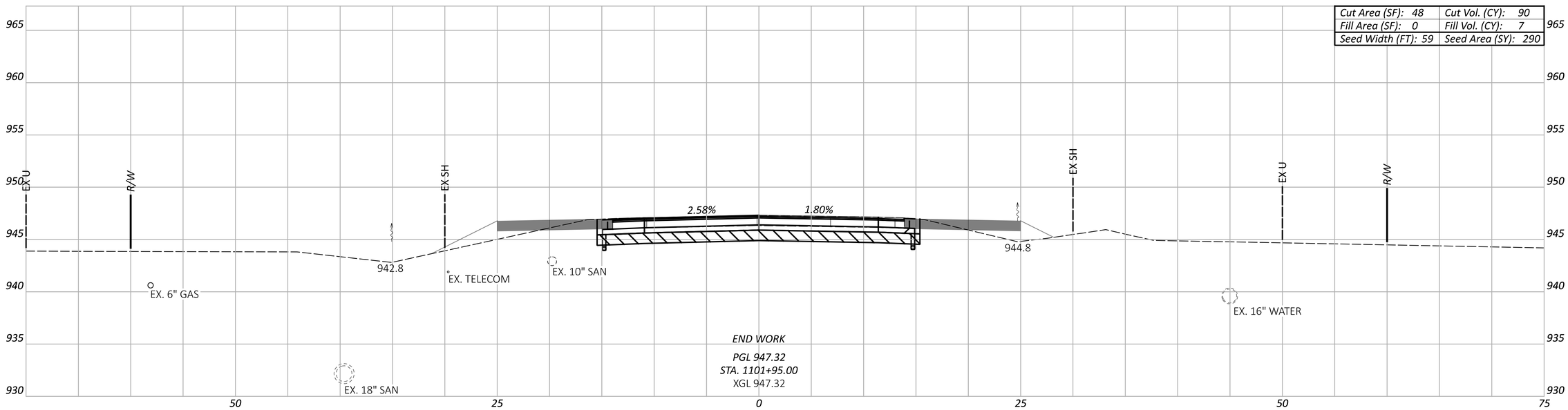
LEGEND

EX PAVEMENT TO BE REMOVED

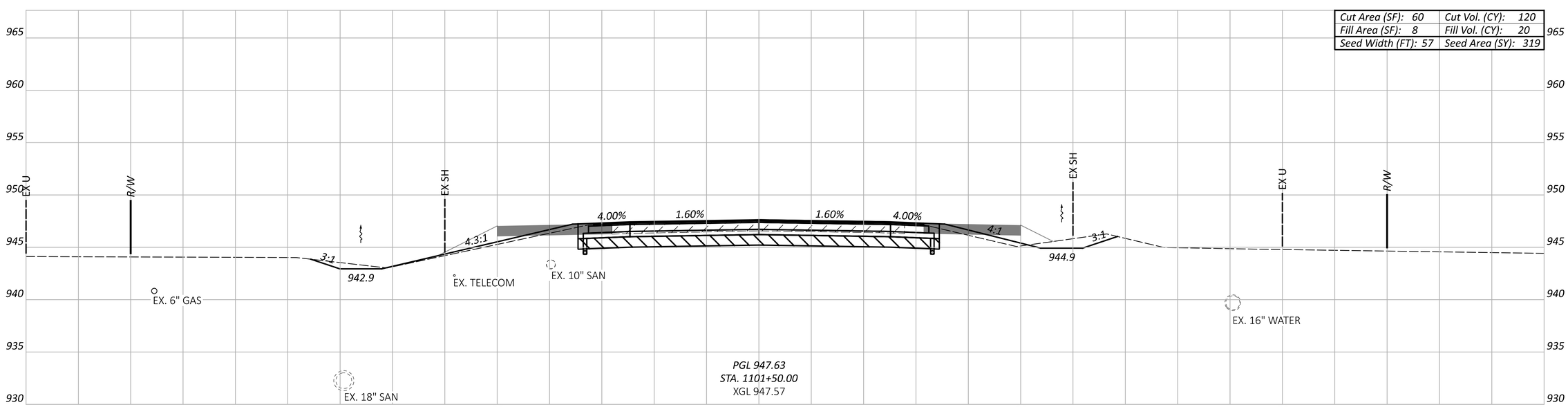
ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B

Cut Area (SF): 48	Cut Vol. (CY): 90
Fill Area (SF): 0	Fill Vol. (CY): 7
Seed Width (FT): 59	Seed Area (SY): 290



Cut Area (SF): 60	Cut Vol. (CY): 120
Fill Area (SF): 8	Fill Vol. (CY): 20
Seed Width (FT): 57	Seed Area (SY): 319



Sheet Totals		
Seeding	Cut	Fill
609	210	27

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1101+50.00 TO STA 1101+94.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: XS_Sheet 12 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:11:21 PM USER: lstutler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 78 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

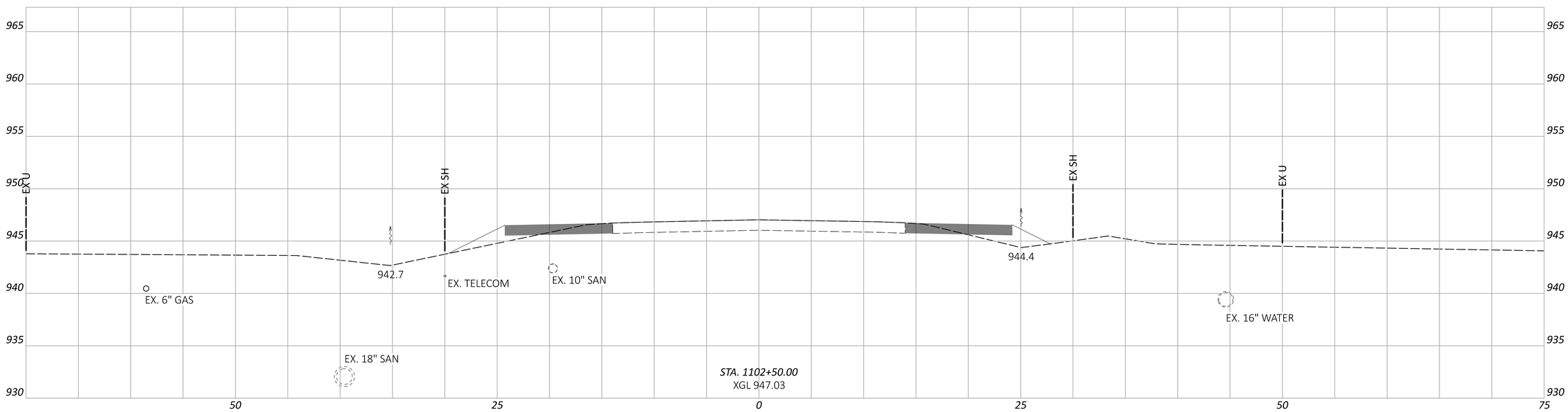
MODEL: XS_Sheet 13 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:11:27 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_XS200.dgn

LEGEND

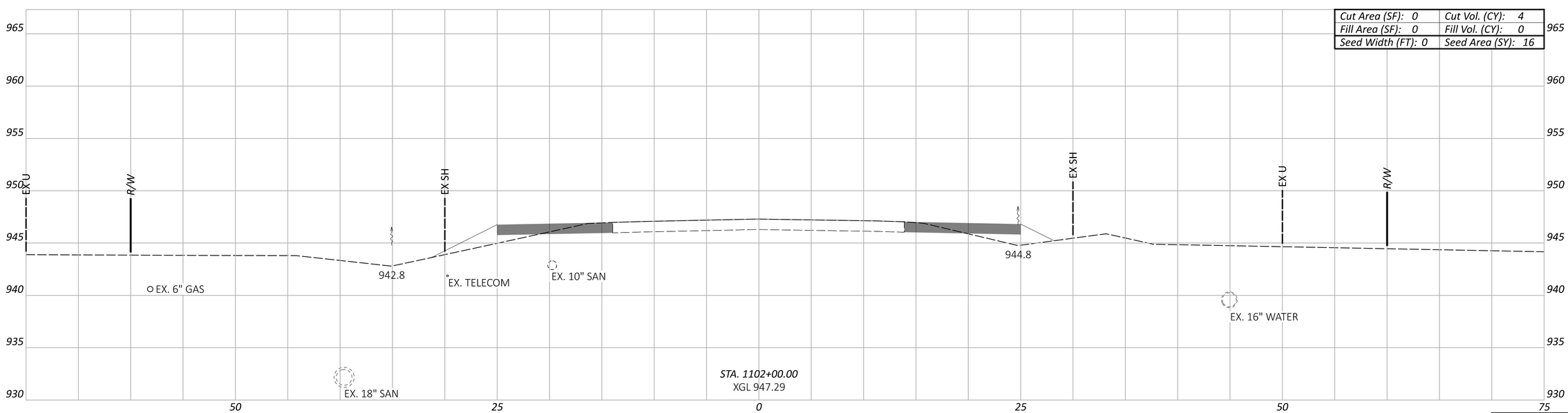
EX PAVEMENT TO BE REMOVED

ITEM 204 - EXCAVATION OF SUBGRADE (12" DEPTH)
ITEM 204 - GRANULAR MATERIAL, TYPE B
ITEM 204 - GEOTEXTILE FABRIC

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B



Cut Area (SF): 0	*Cut Vol. (CY): 4*
Fill Area (SF): 0	*Fill Vol. (CY): 0*
Seed Width (FT): 0	*Seed Area (SY): 16*



Sheet Totals		
Seeding	Cut	Fill
16	4	0

CROSS SECTIONS - INDUSTRIAL PKWY
STA 1102+00.00 TO STA 1102+50.00

DESIGN AGENCY
MAPLEWOOD STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 79 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:11 PM USER: lstufler
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NOTES:

FOR SPLITTER ISLAND DETAILS SEE SHEETS 81 - 85

ALL ELEVATIONS ARE SHOWN AT SURFACE PAVEMENT UNLESS OTHERWISE NOTED.

ROUNDABOUT DETAILS

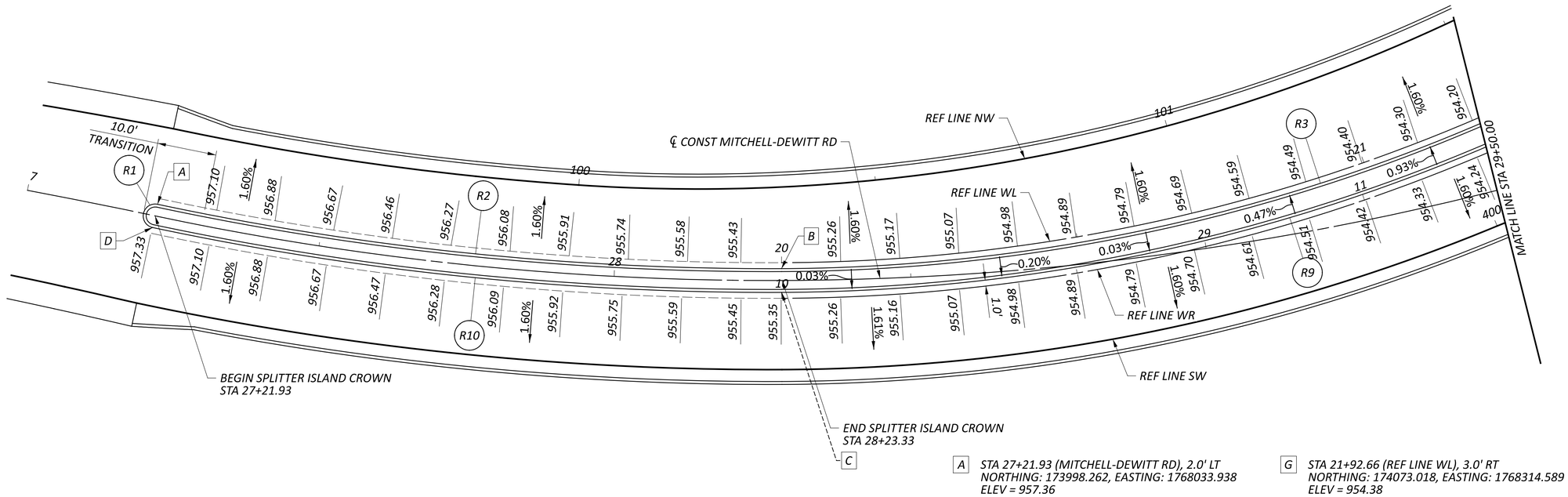
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

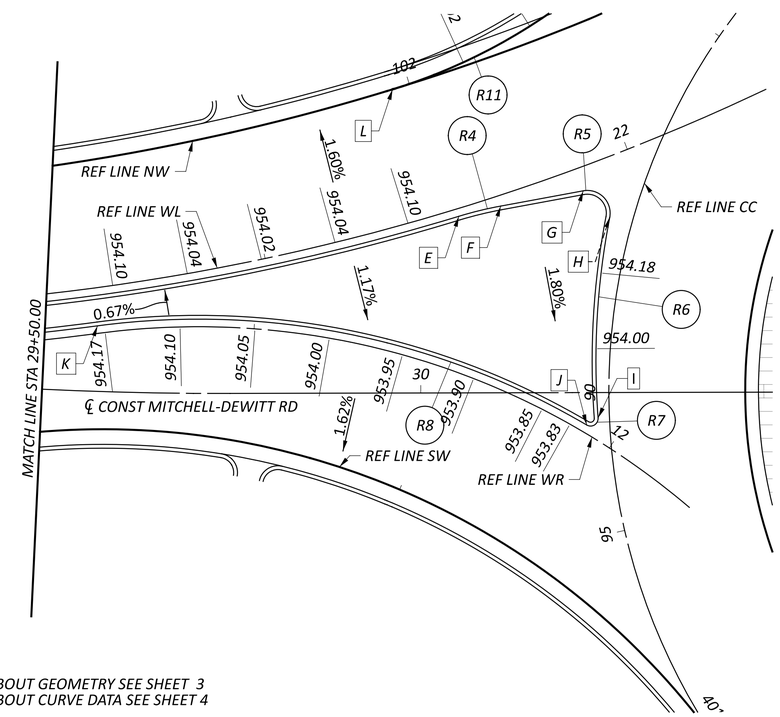
DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 80 TOTAL 131





NOTES:
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4

A STA 27+21.93 (MITCHELL-DEWITT RD), 2.0' LT
NORTHING: 173998.262, EASTING: 1768033.938
ELEV = 957.36

B STA 28+28.21 (MITCHELL-DEWITT RD), 2.0' LT
NORTHING: 173997.317, EASTING: 1768139.597
ELEV = 955.38

C STA 28+28.23 (MITCHELL-DEWITT RD), 2.0' RT
NORTHING: 173993.338, EASTING: 1768140.001
ELEV = 955.38

D STA 27+21.93 (MITCHELL-DEWITT RD), 2.0' RT
NORTHING: 173994.288, EASTING: 1768033.478
ELEV = 957.36

E STA 21+76.13 (REF LINE WL), 1.0' RT
NORTHING: 174063.693, EASTING: 1768300.659
ELEV = 954.15

F STA 21+81.78 (REF LINE WL), 1.4' RT
NORTHING: 174067.033, EASTING: 1768305.265
ELEV = 954.22

G STA 21+92.66 (REF LINE WL), 3.0' RT
NORTHING: 174073.018, EASTING: 1768314.589
ELEV = 954.38

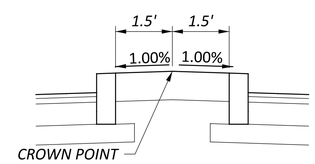
H STA 90+22.62 (REF LINE CC), 3.0' LT
NORTHING: 174071.130, EASTING: 1768319.141
ELEV = 954.37

I STA 95+15.07 (REF LINE CC), 1.5' LT
NORTHING: 174046.007, EASTING: 1768327.739
ELEV = 953.85

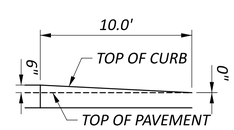
J STA 11+95.87 (REF LINE WR), 1.0' LT
NORTHING: 174044.570, EASTING: 1768326.701
ELEV = 953.82

K STA 11+29.41 (REF LINE WR), 1.0' LT
NORTHING: 174032.253, EASTING: 1768261.975
ELEV = 954.17

L STA 101+97.68 (REF LINE NW), 0.0' LT
NORTHING: 174075.882, EASTING: 1768286.215
ELEV = 953.83



SPLITTER ISLAND CROWN DETAIL



NOTEASTING:
THE BEGINNING OF THE SPLITTER ISLAND SHALL TRANSITION FROM A HEIGHT OF 0" TO 6" OVER THE COURSE OF 10 FEET.

SPLITTER ISLAND TRANSITION DETAIL

ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	2.00	180° 00' 00"	0.00	6.28
R2	498.00	12° 10' 53"	53.14	105.88
R3	301.00	33° 38' 17"	90.99	176.72
R4	50.00	06° 31' 24"	2.85	5.69
R5	3.00	111° 24' 09"	4.40	5.83
R6	100.00	15° 13' 51"	13.37	26.58
R7	1.00	124° 47' 07"	1.91	2.18
R8	101.00	38° 04' 26"	34.85	67.12
R9	305.00	24° 13' 54"	65.47	128.99
R10	502.00	12° 10' 53"	53.57	106.73
R11	75.00	99° 19' 52"	88.32	130.02

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL
WEST APPROACH

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 81 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_WEST PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:21 PM USER: lstutler
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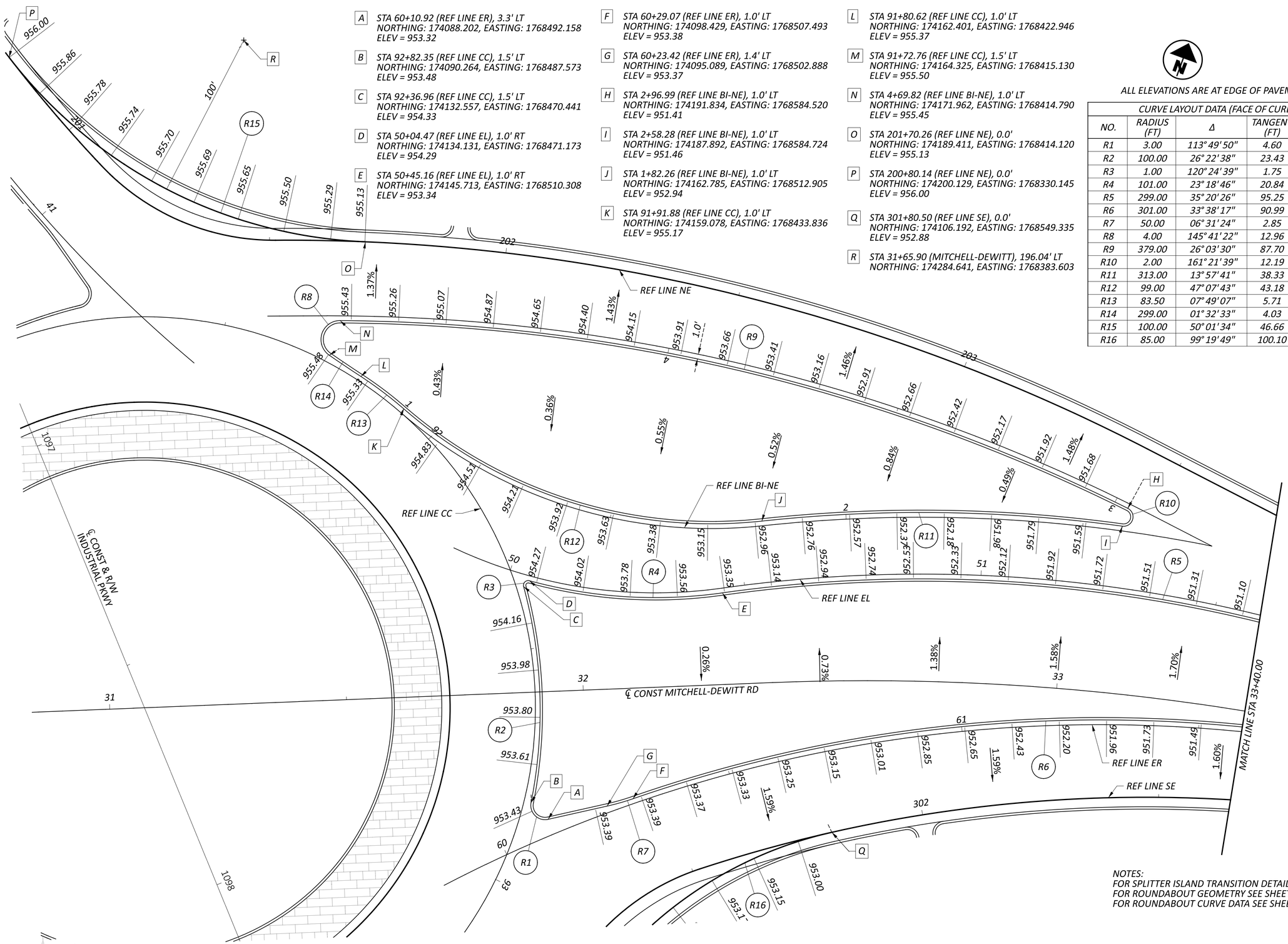

A STA 60+10.92 (REF LINE ER), 3.3' LT
NORTHING: 174088.202, EASTING: 1768492.158
ELEV = 953.32

B STA 92+82.35 (REF LINE CC), 1.5' LT
NORTHING: 174090.264, EASTING: 1768487.573
ELEV = 953.48

C STA 92+36.96 (REF LINE CC), 1.5' LT
NORTHING: 174132.557, EASTING: 1768470.441
ELEV = 954.33

D STA 50+04.47 (REF LINE EL), 1.0' RT
NORTHING: 174134.131, EASTING: 1768471.173
ELEV = 954.29

E STA 50+45.16 (REF LINE EL), 1.0' RT
NORTHING: 174145.713, EASTING: 1768510.308
ELEV = 953.34

F STA 60+29.07 (REF LINE ER), 1.0' LT
NORTHING: 174098.429, EASTING: 1768507.493
ELEV = 953.38

G STA 60+23.42 (REF LINE ER), 1.4' LT
NORTHING: 174095.089, EASTING: 1768502.888
ELEV = 953.37

H STA 2+96.99 (REF LINE BI-NE), 1.0' LT
NORTHING: 174191.834, EASTING: 1768584.520
ELEV = 951.41

I STA 2+58.28 (REF LINE BI-NE), 1.0' LT
NORTHING: 174187.892, EASTING: 1768584.724
ELEV = 951.46

J STA 1+82.26 (REF LINE BI-NE), 1.0' LT
NORTHING: 174162.785, EASTING: 1768512.905
ELEV = 952.94

K STA 91+91.88 (REF LINE CC), 1.0' LT
NORTHING: 174159.078, EASTING: 1768433.836
ELEV = 955.17

L STA 91+80.62 (REF LINE CC), 1.0' LT
NORTHING: 174162.401, EASTING: 1768422.946
ELEV = 955.37

M STA 91+72.76 (REF LINE CC), 1.5' LT
NORTHING: 174164.325, EASTING: 1768415.130
ELEV = 955.50

N STA 4+69.82 (REF LINE BI-NE), 1.0' LT
NORTHING: 174171.962, EASTING: 1768414.790
ELEV = 955.45

O STA 201+70.26 (REF LINE NE), 0.0'
NORTHING: 174189.411, EASTING: 1768414.120
ELEV = 955.13

P STA 200+80.14 (REF LINE NE), 0.0'
NORTHING: 174200.129, EASTING: 1768330.145
ELEV = 956.00

Q STA 301+80.50 (REF LINE SE), 0.0'
NORTHING: 174106.192, EASTING: 1768549.335
ELEV = 952.88

R STA 31+65.90 (MITCHELL-DEWITT), 196.04' LT
NORTHING: 174284.641, EASTING: 1768383.603

ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

CURVE LAYOUT DATA (FACE OF CURB)

NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	3.00	113° 49' 50"	4.60	5.96
R2	100.00	26° 22' 38"	23.43	46.04
R3	1.00	120° 24' 39"	1.75	2.10
R4	101.00	23° 18' 46"	20.84	41.10
R5	299.00	35° 20' 26"	95.25	184.43
R6	301.00	33° 38' 17"	90.99	176.72
R7	50.00	06° 31' 24"	2.85	5.69
R8	4.00	145° 41' 22"	12.96	10.17
R9	379.00	26° 03' 30"	87.70	172.37
R10	2.00	161° 21' 39"	12.19	5.63
R11	313.00	13° 57' 41"	38.33	76.27
R12	99.00	47° 07' 43"	43.18	81.43
R13	83.50	07° 49' 07"	5.71	11.39
R14	299.00	01° 32' 33"	4.03	8.05
R15	100.00	50° 01' 34"	46.66	87.31
R16	85.00	99° 19' 49"	100.10	147.36

NOTES:
FOR SPLITTER ISLAND TRANSITION DETAIL SEE SHEET 81
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL EAST APPROACH

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 82 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_EAST 1 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:23 PM USER: lstutler
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CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	2.00	180° 00' 00"	0.00	6.28
R2	498.00	12° 46' 37"	55.76	111.05

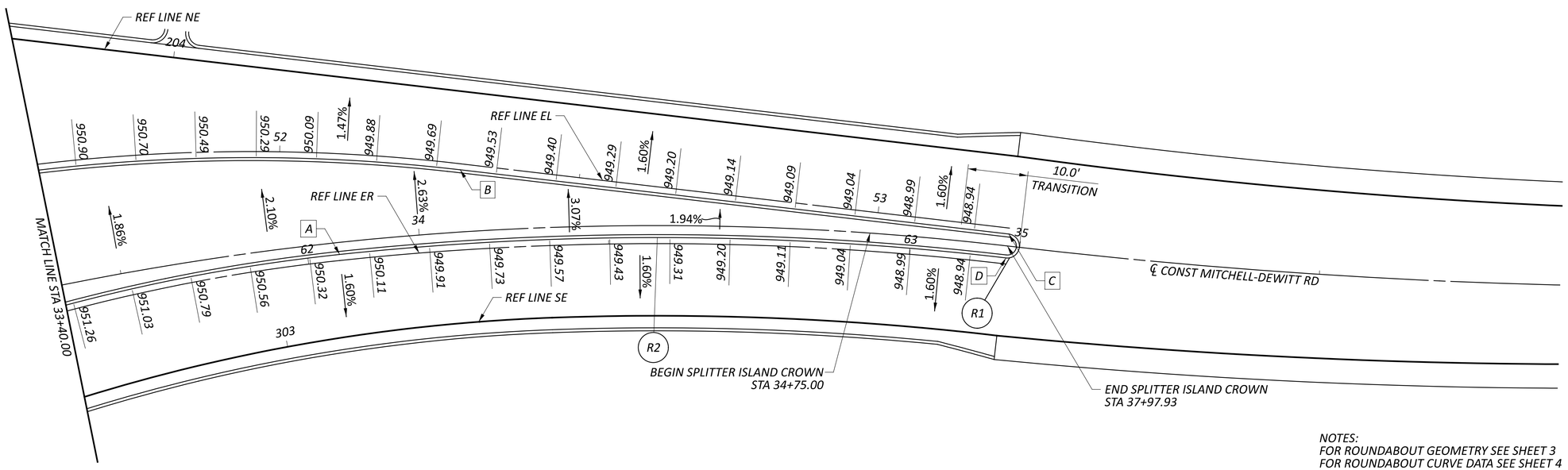
ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

A STA 62+05.30 (REF LINE ER), 1.0' LT
NORTHING: 174164.813, EASTING: 1768668.638
ELEV = 950.20

B STA 52+30.20 (REF LINE EL), 1.0' RT
NORTHING: 174178.706, EASTING: 1768688.800
ELEV = 949.61

C STA 53+21.98 (REF LINE EL), 1.0' RT
NORTHING: 174167.207, EASTING: 1768779.856
ELEV = 948.90

D STA 63+16.03 (REF LINE ER), 1.0' LT
NORTHING: 174163.238, EASTING: 1768779.354
ELEV = 948.90



NOTES:
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4
FOR SPLITTER ISLAND TRANSITION DETAIL SEE SHEET 81
FOR SPLITTER ISLAND CROWN DETAIL SEE SHEET 81

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL
EAST APPROACH

DESIGN AGENCY
WESTON & STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 83 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_EAST 2 PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:25 PM USER: lstutler
O:\2022\01156\C_Design\01156_IndustrialParkway\400-Engineering\Roadway\Sheets\01156_GI001.dgn

CURVE LAYOUT DATA (FACE OF CURB)				
NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	2.00	180° 00' 00"	0.00	6.28
R2	301.00	19° 17' 45"	51.17	101.37
R3	50.00	06° 31' 24"	2.85	5.69
R4	3.00	111° 24' 09"	4.40	5.83
R5	100.00	15° 13' 50"	13.37	26.58
R6	1.00	124° 47' 07"	1.91	2.18
R7	101.00	38° 04' 26"	34.85	67.12
R8	305.00	09° 53' 22"	26.39	52.64
R9	75.00	99° 19' 52"	88.32	130.02

ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

A STA 1094+75.00 (℄ CONST & R/W INDUSTRIAL PKWY), 2.0' LT
NORTHING: 174292.682, EASTING: 1768213.692
ELEV = 959.83

B STA 1095+57.04 (℄ CONST & R/W INDUSTRIAL PKWY), 2.0' LT
NORTHING: 174232.079, EASTING: 1768268.988
ELEV = 958.11

C STA 41+01.03 (REF LINE NR), 1.0' RT
NORTHING: 174170.001, EASTING: 1768348.521
ELEV = 955.84

D STA 41+06.69 (REF LINE NR), 1.4' RT
NORTHING: 174176.021, EASTING: 1768353.367
ELEV = 955.82

E STA 41+17.56 (REF LINE NR), 3.0' RT
NORTHING: 174160.690, EASTING: 1768362.460
ELEV = 955.83

F STA 91+19.83 (REF LINE CC), 3.0' LT
NORTHING: 174155.733, EASTING: 1768362.412
ELEV = 955.87

G STA 90+93.96 (REF LINE CC), 1.5' LT
NORTHING: 174138.218, EASTING:1768342.520
ELEV = 955.68

H STA 31+19.27 (REF LINE NL), 1.0' LT
NORTHING: 174138.629, EASTING: 1768340.796
ELEV = 955.62

I STA 30+52.82 (REF LINE NL), 1.0' LT
NORTHING: 174193.742, EASTING: 1768304.689
ELEV = 956.51

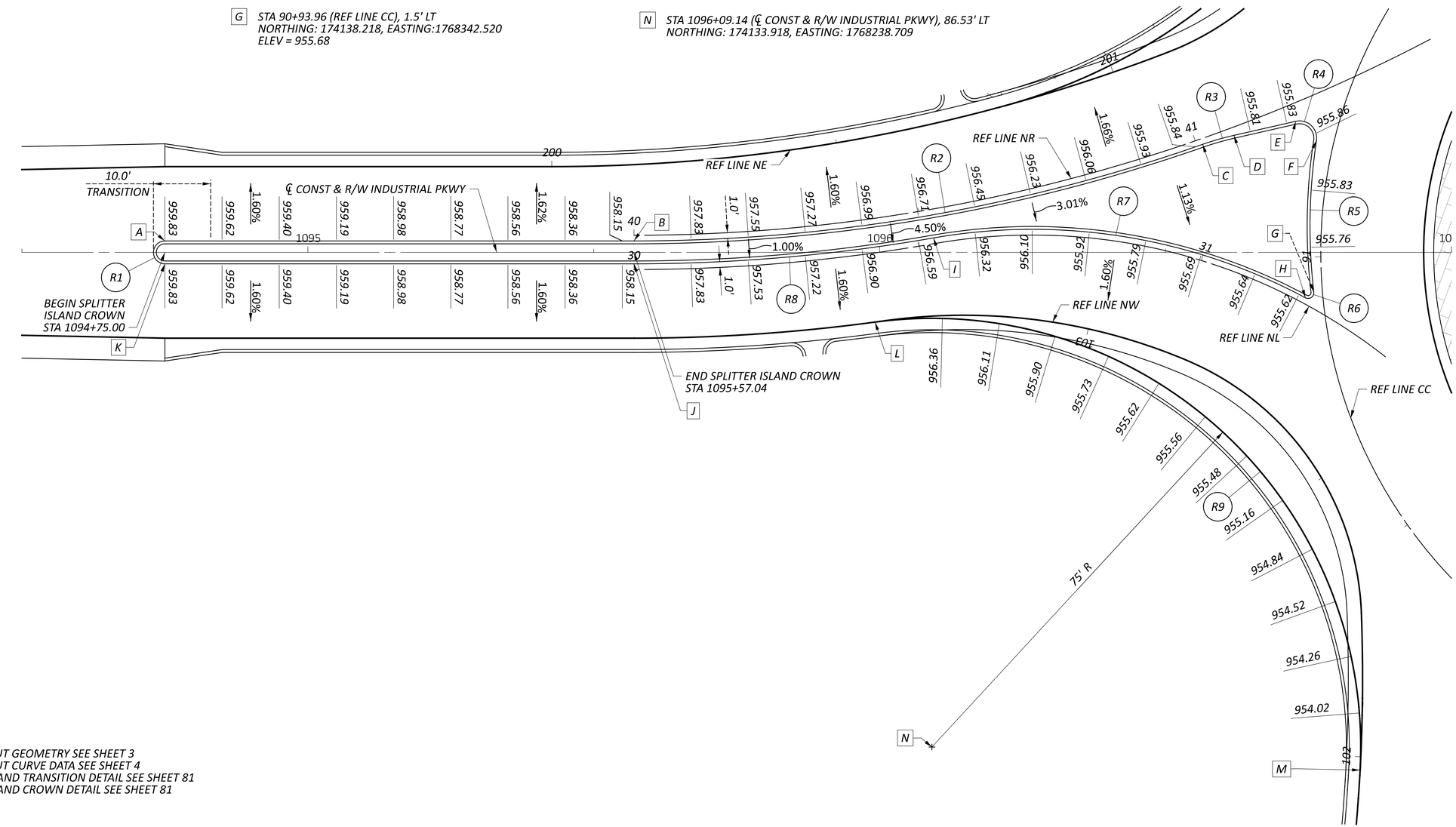
J STA 1095+57.04 (INDUSTRIAL), 2.0' RT
NORTHING: 174229.383, EASTING: 1768266.033
ELEV = 958.11

K STA 1094+75.00 (INDUSTRIAL), 2.0' RT
NORTHING: 174289.986, EASTING: 1768210.737
ELEV = 959.83

L STA 30+40.69 (REF LINE NL), 12.0' RT
NORTHING: 174191.369, EASTING: 1768286.921
ELEV = 956.61

M STA 101+97.68 (REF LINE NW), 0.0'
NORTHING: 174075.882, EASTING: 1768286.215
ELEV = 954.17

N STA 1096+09.14 (℄ CONST & R/W INDUSTRIAL PKWY), 86.53' LT
NORTHING: 174133.918, EASTING: 1768238.709



NOTES:
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4
FOR SPLITTER ISLAND TRANSITION DETAIL SEE SHEET 81
FOR SPLITTER ISLAND CROWN DETAIL SEE SHEET 81

HORIZONTAL SCALE IN FEET 0 5 10 20

SPLITTER ISLAND DETAIL NORTH APPROACH

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_NORTH PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:26 PM USER: lstutler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156
SHEET 84 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet_SOUTH PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:27 PM USER: lstutler
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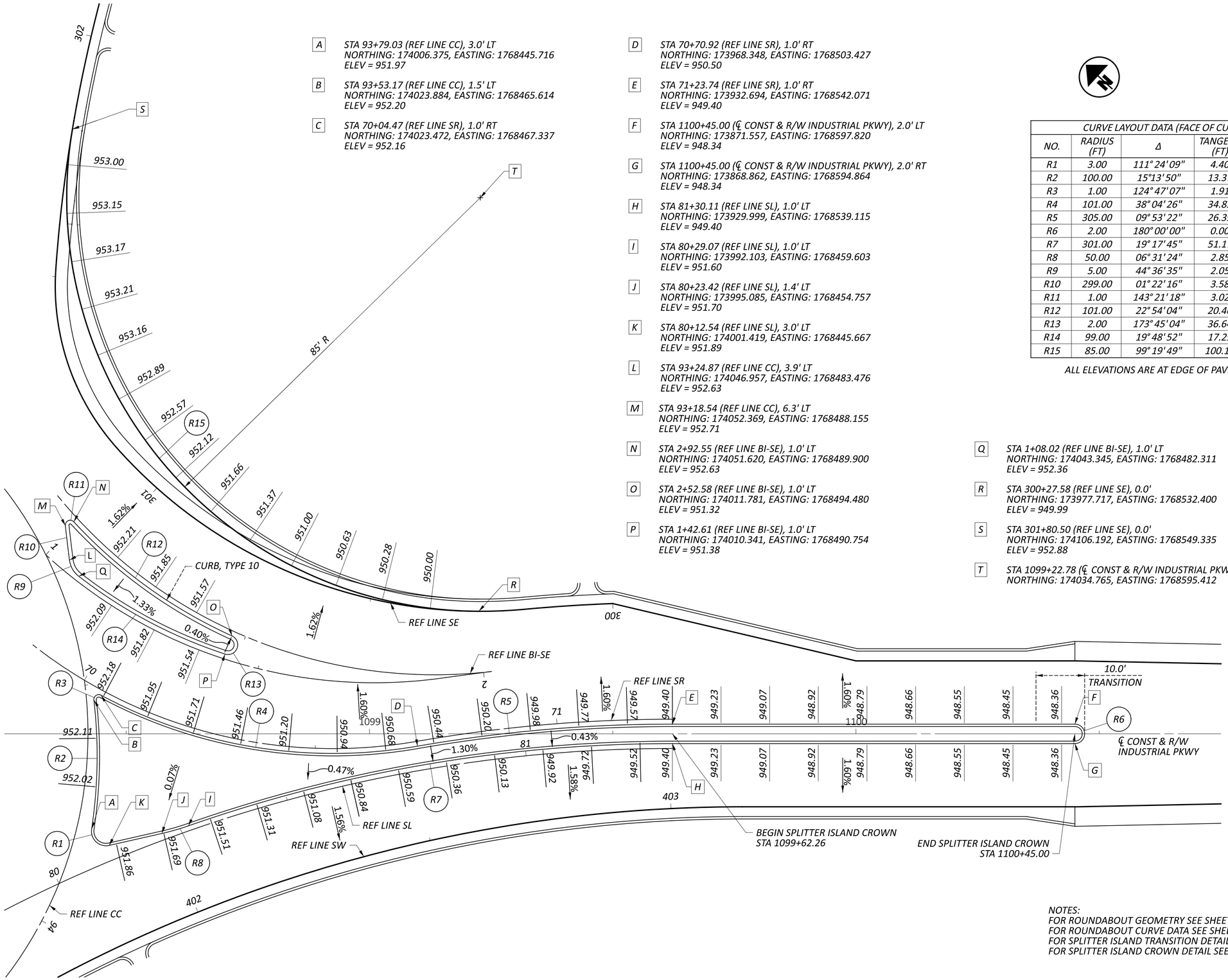


A STA 93+79.03 (REF LINE CC), 3.0' LT
NORTHING: 174006.375, EASTING: 1768445.716
ELEV = 951.97

B STA 93+53.17 (REF LINE CC), 1.5' LT
NORTHING: 174023.884, EASTING: 1768465.614
ELEV = 952.20

C STA 70+04.47 (REF LINE SR), 1.0' RT
NORTHING: 174023.472, EASTING: 1768467.337
ELEV = 952.16

D STA 70+70.92 (REF LINE SR), 1.0' RT
NORTHING: 173968.348, EASTING: 1768503.427
ELEV = 950.50

E STA 71+23.74 (REF LINE SR), 1.0' RT
NORTHING: 173932.694, EASTING: 1768542.071
ELEV = 949.40

F STA 1100+45.00 (℄ CONST & R/W INDUSTRIAL PKWY), 2.0' LT
NORTHING: 173871.557, EASTING: 1768597.820
ELEV = 948.34

G STA 1100+45.00 (℄ CONST & R/W INDUSTRIAL PKWY), 2.0' RT
NORTHING: 173868.862, EASTING: 1768594.864
ELEV = 948.34

H STA 81+30.11 (REF LINE SL), 1.0' LT
NORTHING: 173929.999, EASTING: 1768539.115
ELEV = 949.40

I STA 80+29.07 (REF LINE SL), 1.0' LT
NORTHING: 173992.103, EASTING: 1768459.603
ELEV = 951.60

J STA 80+23.42 (REF LINE SL), 1.4' LT
NORTHING: 173995.085, EASTING: 1768454.757
ELEV = 951.70

K STA 80+12.54 (REF LINE SL), 3.0' LT
NORTHING: 174001.419, EASTING: 1768445.667
ELEV = 951.89

L STA 93+24.87 (REF LINE CC), 3.9' LT
NORTHING: 174046.957, EASTING: 1768483.476
ELEV = 952.63

M STA 93+18.54 (REF LINE CC), 6.3' LT
NORTHING: 174052.369, EASTING: 1768488.155
ELEV = 952.71

N STA 2+92.55 (REF LINE BI-SE), 1.0' LT
NORTHING: 174051.620, EASTING: 1768489.900
ELEV = 952.63

O STA 2+52.58 (REF LINE BI-SE), 1.0' LT
NORTHING: 174011.781, EASTING: 1768494.480
ELEV = 951.32

P STA 1+42.61 (REF LINE BI-SE), 1.0' LT
NORTHING: 174010.341, EASTING: 1768490.754
ELEV = 951.38

Q STA 1+08.02 (REF LINE BI-SE), 1.0' LT
NORTHING: 174043.345, EASTING: 1768482.311
ELEV = 952.36

R STA 300+27.58 (REF LINE SE), 0.0'
NORTHING: 173977.717, EASTING: 1768532.400
ELEV = 949.99

S STA 301+80.50 (REF LINE SE), 0.0'
NORTHING: 174106.192, EASTING: 1768549.335
ELEV = 952.88

T STA 1099+22.78 (℄ CONST & R/W INDUSTRIAL PKWY), 110.19' LT
NORTHING: 174034.765, EASTING: 1768595.412

CURVE LAYOUT DATA (FACE OF CURB)

NO.	RADIUS (FT)	Δ	TANGENT (FT)	LENGTH (FT)
R1	3.00	111° 24' 09"	4.40	5.83
R2	100.00	15°13' 50"	13.37	26.58
R3	1.00	124° 47' 07"	1.91	2.18
R4	101.00	38° 04' 26"	34.85	67.12
R5	305.00	09° 53' 22"	26.39	52.64
R6	2.00	180° 00' 00"	0.00	6.28
R7	301.00	19° 17' 45"	51.17	101.37
R8	50.00	06° 31' 24"	2.85	5.69
R9	5.00	44° 36' 35"	2.05	3.89
R10	299.00	01° 22' 16"	3.58	7.15
R11	1.00	143° 21' 18"	3.02	2.50
R12	101.00	22° 54' 04"	20.46	40.37
R13	2.00	173° 45' 04"	36.64	6.07
R14	99.00	19° 48' 52"	17.29	34.24
R15	85.00	99° 19' 49"	100.10	147.36

ALL ELEVATIONS ARE AT EDGE OF PAVEMENT

NOTES:
FOR ROUNDABOUT GEOMETRY SEE SHEET 3
FOR ROUNDABOUT CURVE DATA SEE SHEET 4
FOR SPLITTER ISLAND TRANSITION DETAIL SEE SHEET 81
FOR SPLITTER ISLAND CROWN DETAIL SEE SHEET 81

HORIZONTAL SCALE IN FEET
0 5 10 20

SPLITTER ISLAND DETAIL SOUTH APPROACH

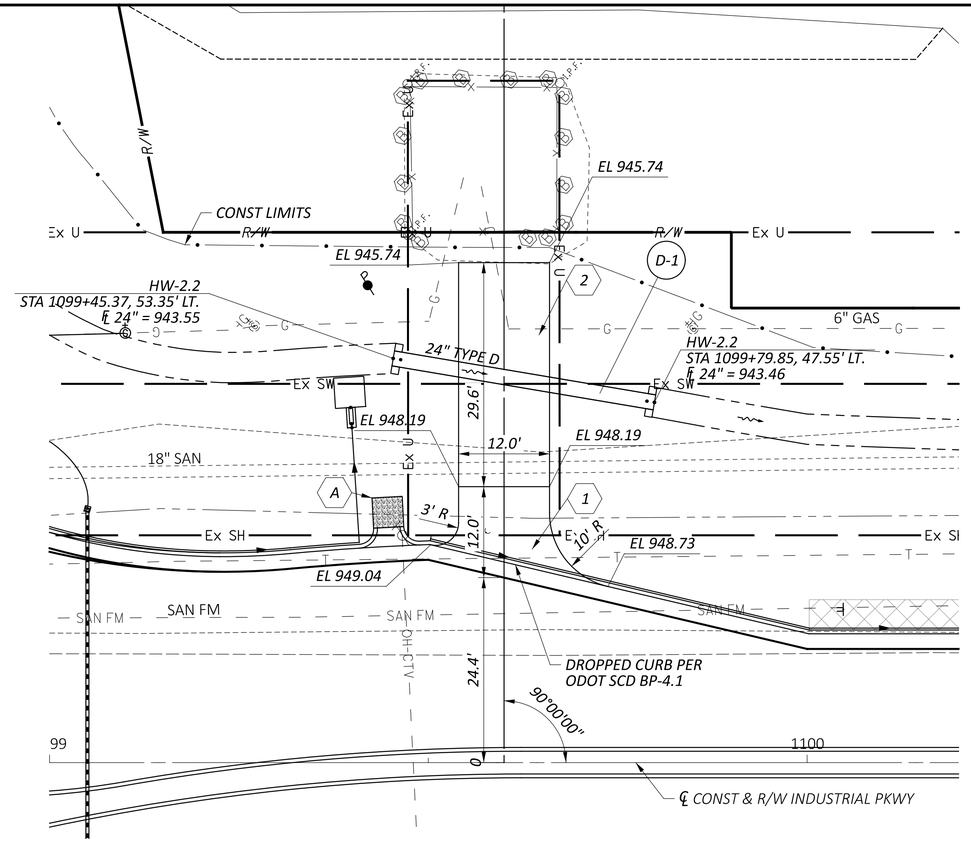
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

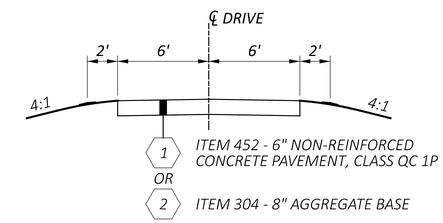
PROJECT ID
2022.01156

SHEET 85 TOTAL 131

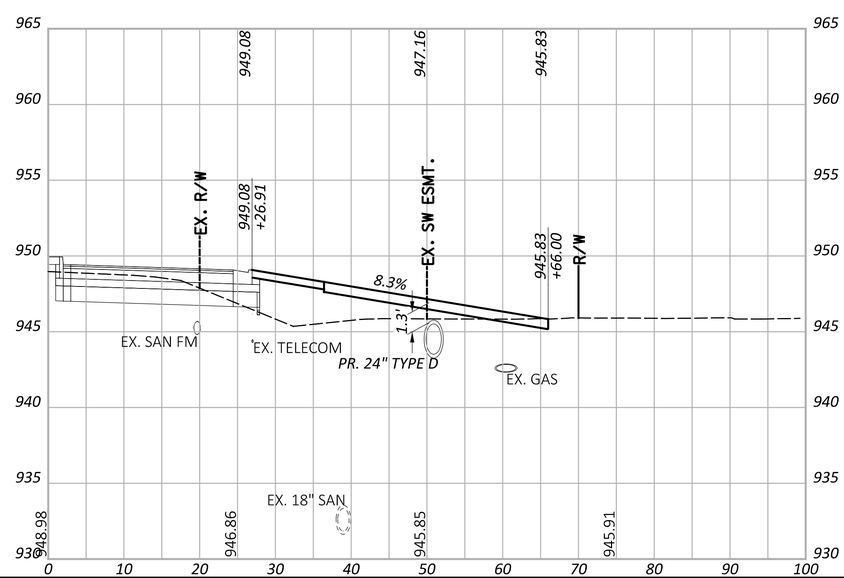


COMMERCIAL DRIVE
INDUSTRIAL PKWY
STA. 1099+60.00 LT

NOTE:
FOR QUANTITIES SEE SHEET 32



COMMERCIAL DRIVE SECTION
EXISTING AGGREGATE DRIVE



HORIZONTAL SCALE IN FEET
0 5 10 20

DRIVEWAY DETAILS
INDUSTRIAL PKWY - STA 1099+60.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:42 PM USER: lstutler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 86 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:50 PM USER: lstutler
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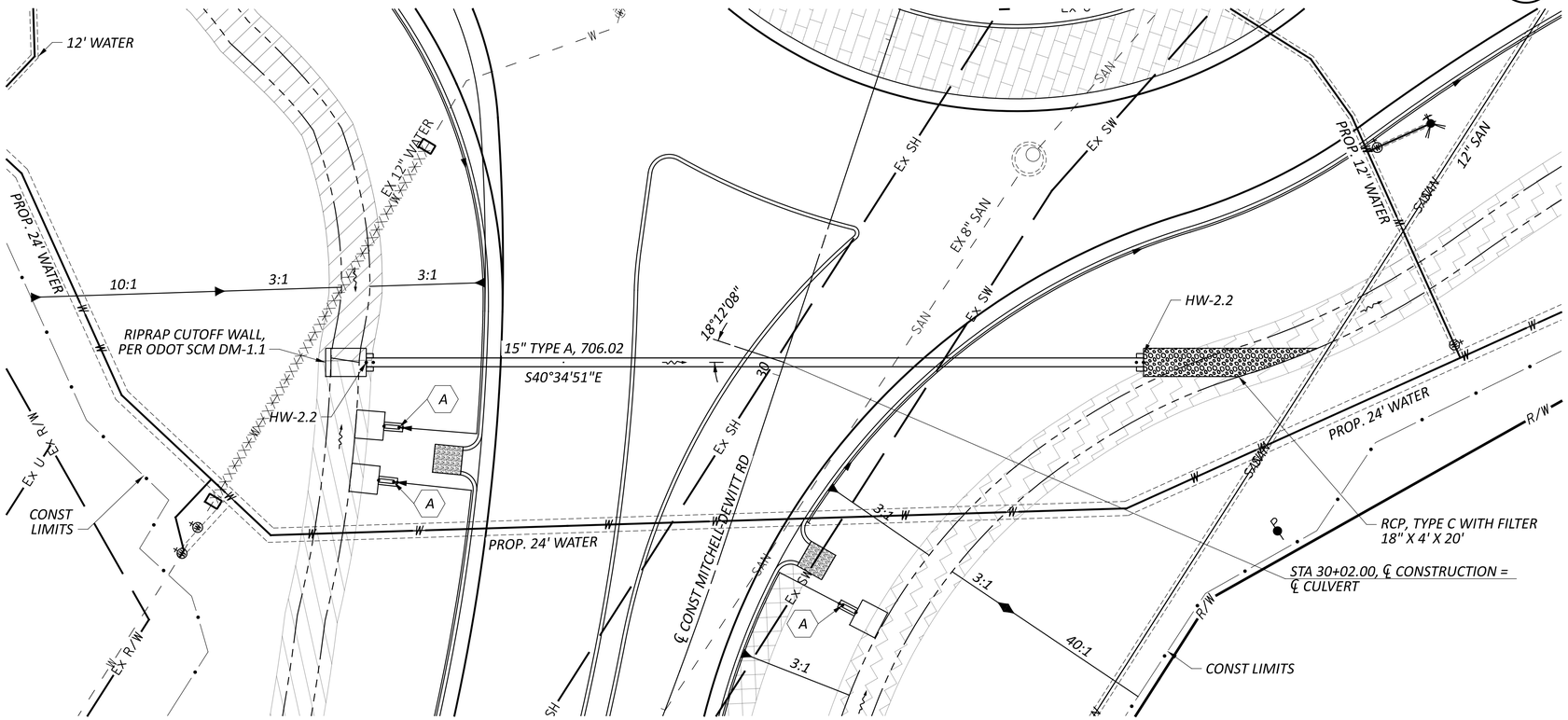


ESTIMATED QUANTITIES			
ITEM	QTY	UNIT	DESCRIPTION
601	3	SY	RIPRAP, TYPE D
657	4	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
659	0.50	CY	CONCRETE MASONRY
659	110	FT	15" CONDUIT, TYPE A, 706.02

HYDRAULIC DATA

DRAINAGE AREA = 4.036 ACRES

Q (10) = 9.60 CFS V (10) = 7.86 FT/S HW (10) = 952.88 FT

Q (100) = 12.90 CFS V (100) = 9.06 FT/S HW (100) = 954.07 FT

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: LEVEL 1

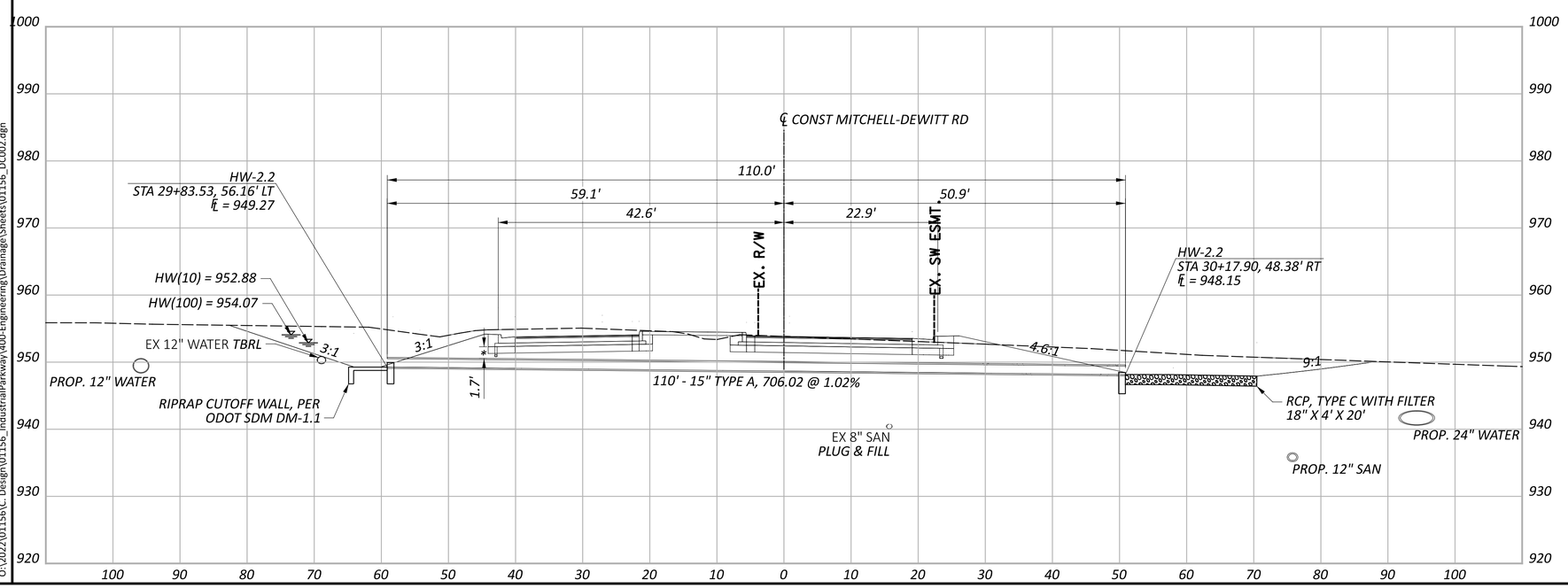
pH: 7.8

PROPOSED STRUCTURE

TYPE: 15" CONDUIT, TYPE A, 706.02

SKEW: 18°12'08" RT

ALIGNMENT: SKEWED



HORIZONTAL SCALE IN FEET
0 5 10 20

CULVERT DETAIL
STA 30+02.00

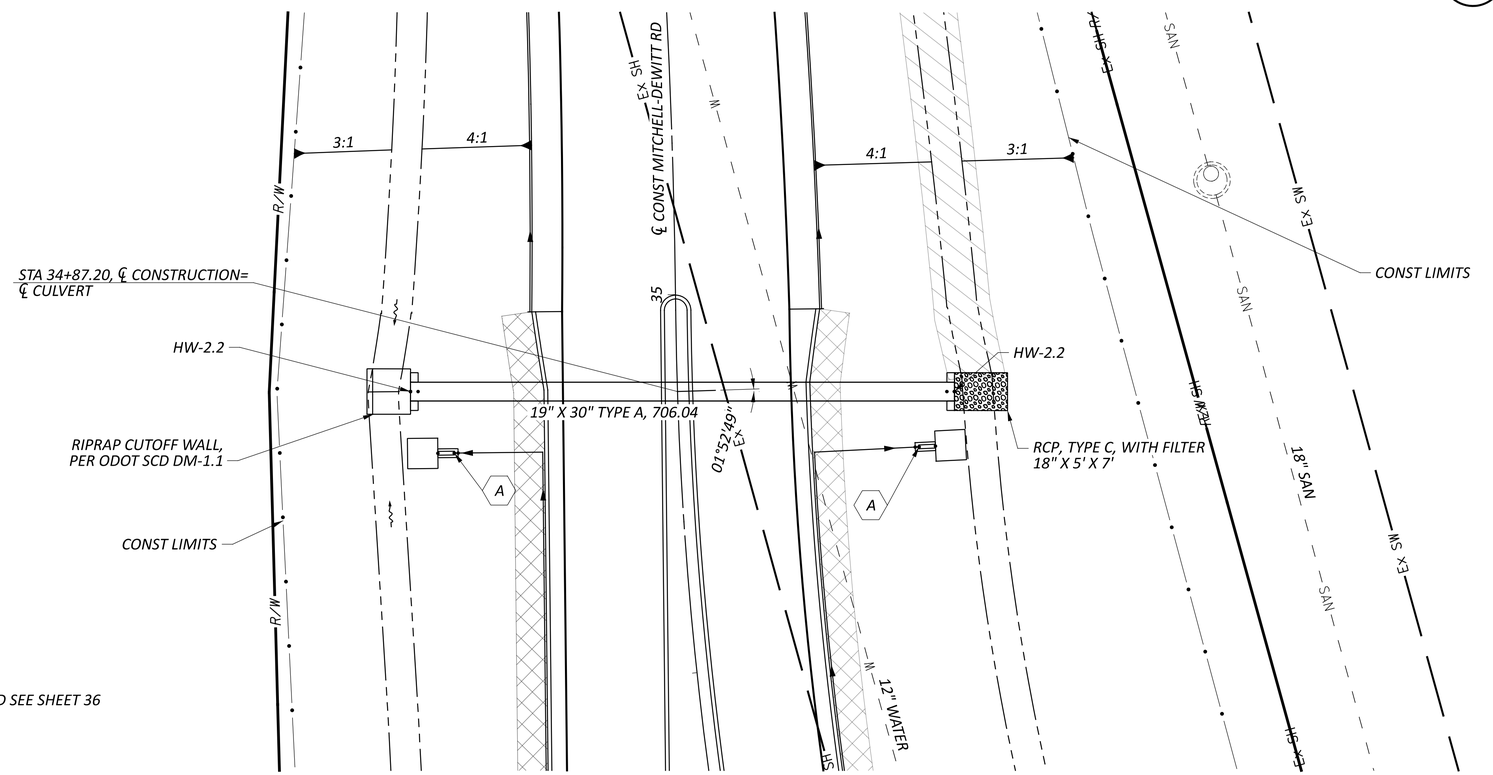
DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 87 TOTAL 131



NOTE:

FOR LEGEND SEE SHEET 36

ESTIMATED QUANTITIES			
ITEM	QTY	UNIT	DESCRIPTION
601	4	SY	RIPRAP, TYPE D
657	2	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
659	0.70	CY	CONCRETE MASONRY
659	72	FT	19" X 30" CONDUIT, TYPE A, 706.04

HYDRAULIC DATA

DRAINAGE AREA = 53.202 ACRES

Q (10) = 15.0 CFS V (10) = 4.68 FT/S HW (10) = 947.12 FT

Q (100) = 22.60 CFS V (100) = 7.05 FT/S HW (100) = 948.72 FT

DESIGN SERVICE LIFE: 75 YEARS

ABRASION LEVEL: LEVEL 1

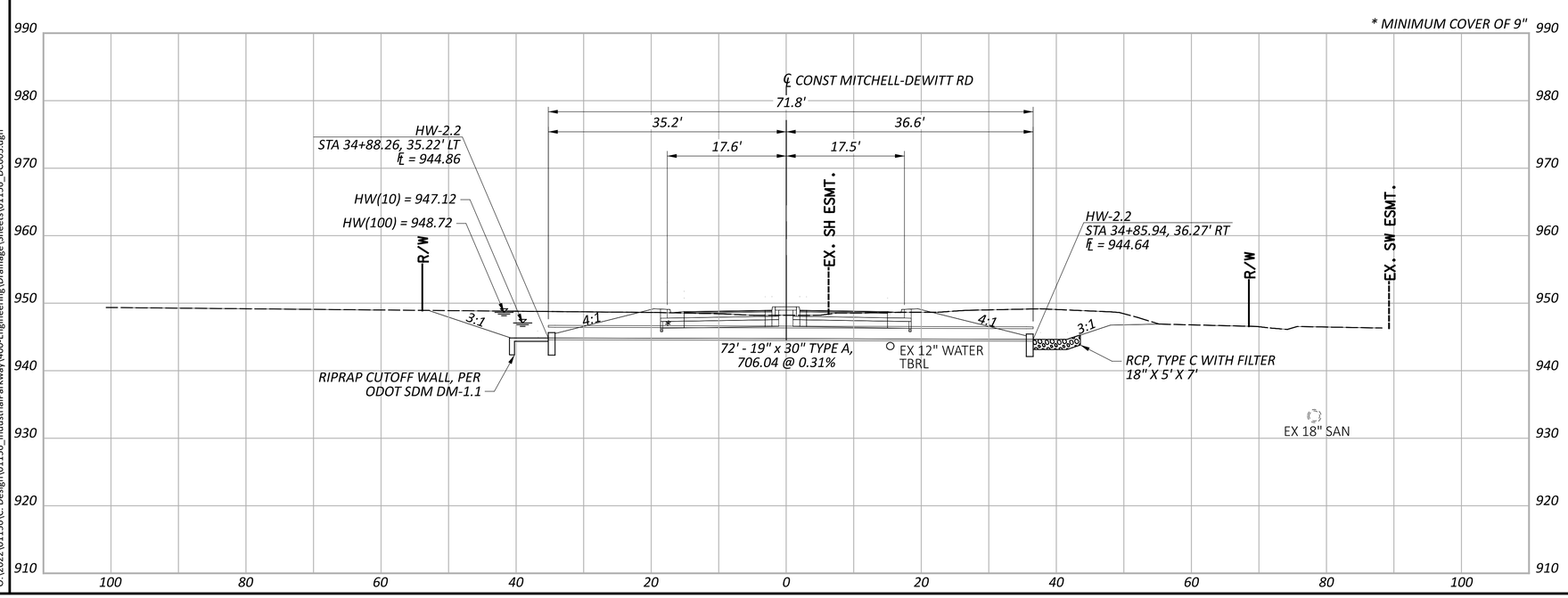
pH: 7.8

PROPOSED STRUCTURE

TYPE: 19" x 30" CONDUIT, TYPE A, 706.04

SKEW: 01°52'49" RT

ALIGNMENT: TANGENT



HORIZONTAL SCALE IN FEET 0 5 10 20

CULVERT DETAIL
STA 34+87.20

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:56 PM USER: lstutler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 88 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	202 MANHOLE REMOVED (SANITARY SEWER) EACH	611 SPECIAL - FILL AND PLUG EXISTING CONDUIT 8" (SANITARY SEWER) FT	611 SPECIAL - FILL AND PLUG EXISTING CONDUIT 12" (SANITARY SEWER) FT	611 SPECIAL - FILL AND PLUG EXISTING CONDUIT 18" (SANITARY SEWER) FT	611 8" CONDUIT, TYPE B (SANITARY SEWER) FT	611 12" CONDUIT, TYPE B (SANITARY SEWER) FT	611 18" CONDUIT, TYPE B (SANITARY SEWER) FT	611 MANHOLE, NO. 3 (SANITARY SEWER) EACH	611 MANHOLE ADJUSTED TO GRADE (SANITARY SEWER) EACH	611 MANHOLE ADJUSTED TO GRADE (TRAFFIC) EACH	611 SPECIAL - GAS VALVE BOX ADJUSTED TO GRADE EACH
SS-1	36 & 90	MITCHELL-DEWITT RD	27+92.59	28+24.98	LT	1	245			67						
SS-2	36, 37, 40, 90	MITCHELL-DEWITT RD	28+24.98	1098+94.83	RT						387		1			
SS-3	37, 40 & 90	INDUSTRIAL PKWY	1098+94.83	32+85.55	LT								1			
SS-4	37, 90	MITCHELL-DEWITT RD	32+85.55	1098+94.83	RT				78			93	1			
U-1	36, 37, 40, 90	MITCHELL-DEWITT RD	30+41.74	31+77.32	RT	1		149								
U-2	37, 40 & 90	INDUSTRIAL PKWY	1098+60.59		LT	1			34							
U-3	37, 90	MITCHELL-DEWITT RD	32+02.01	1098+60.59	RT	1			30							
U-4	40	INDUSTRIAL PKWY	1095+60.87		LT										1	
U-5	37, 40	INDUSTRIAL PKWY	1098+80.80		LT										1	
U-6	37, 40	INDUSTRIAL PKWY	1099+27.02		LT											1
U-7	40	INDUSTRIAL PKWY	1099+84.91		LT											1
U-8	41	INDUSTRIAL PKWY	1100+27.10		LT									1		
TOTALS CARRIED TO GENERAL SUMMARY						4	245	149	142	67	387	93	3	1	2	2

UTILITY SUBSUMMARY

DESIGN AGENCY
AMPHEON STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 89 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:12:58 PM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:13:08 PM USER: lstutler
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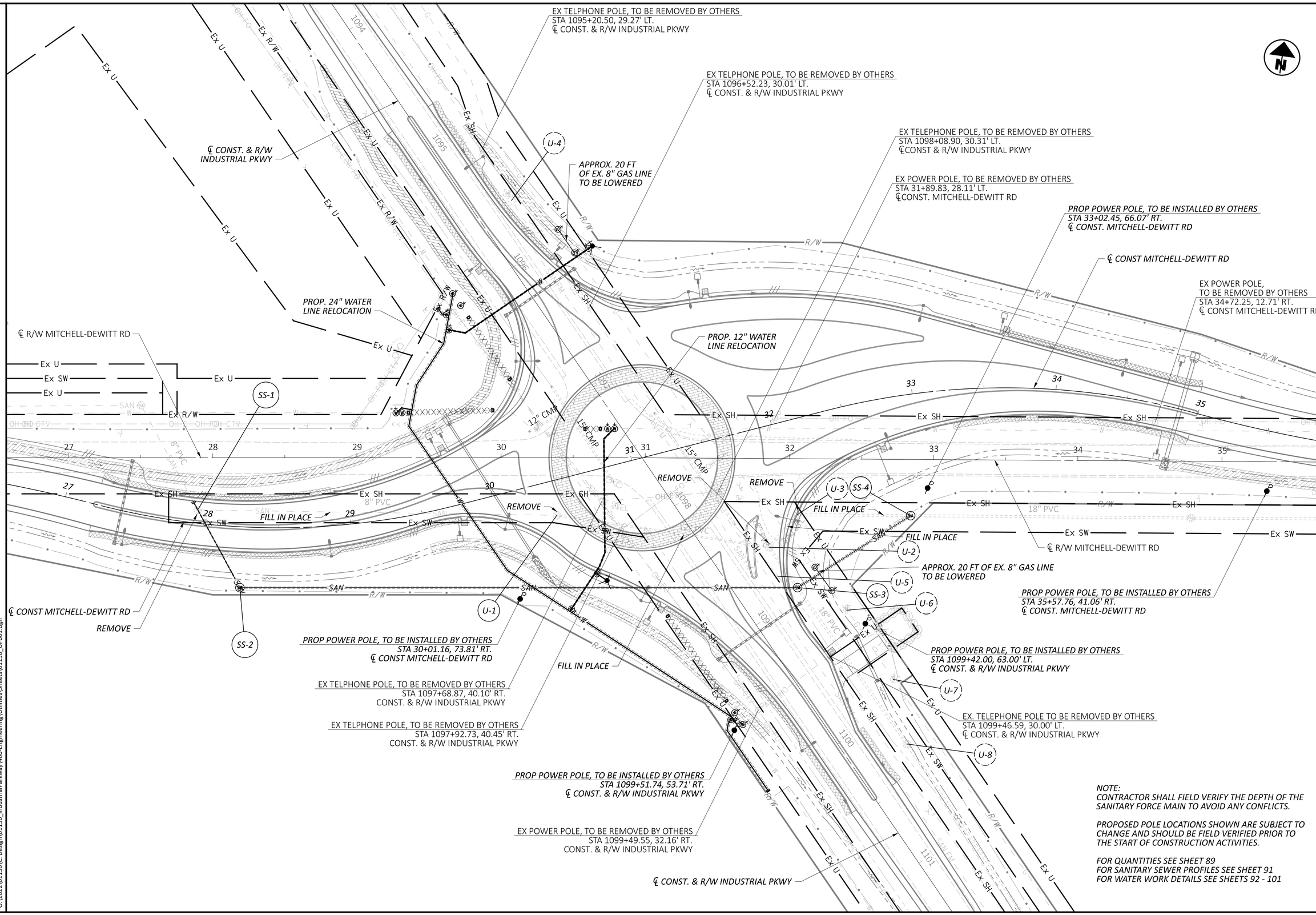


NOTE:
CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF THE SANITARY FORCE MAIN TO AVOID ANY CONFLICTS.

PROPOSED POLE LOCATIONS SHOWN ARE SUBJECT TO CHANGE AND SHOULD BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

FOR QUANTITIES SEE SHEET 89
FOR SANITARY SEWER PROFILES SEE SHEET 91
FOR WATER WORK DETAILS SEE SHEETS 92 - 101

UTILITY RELOCATION PLAN

DESIGN AGENCY
STRUCTUREPOINT INC.
WIDEAWAY

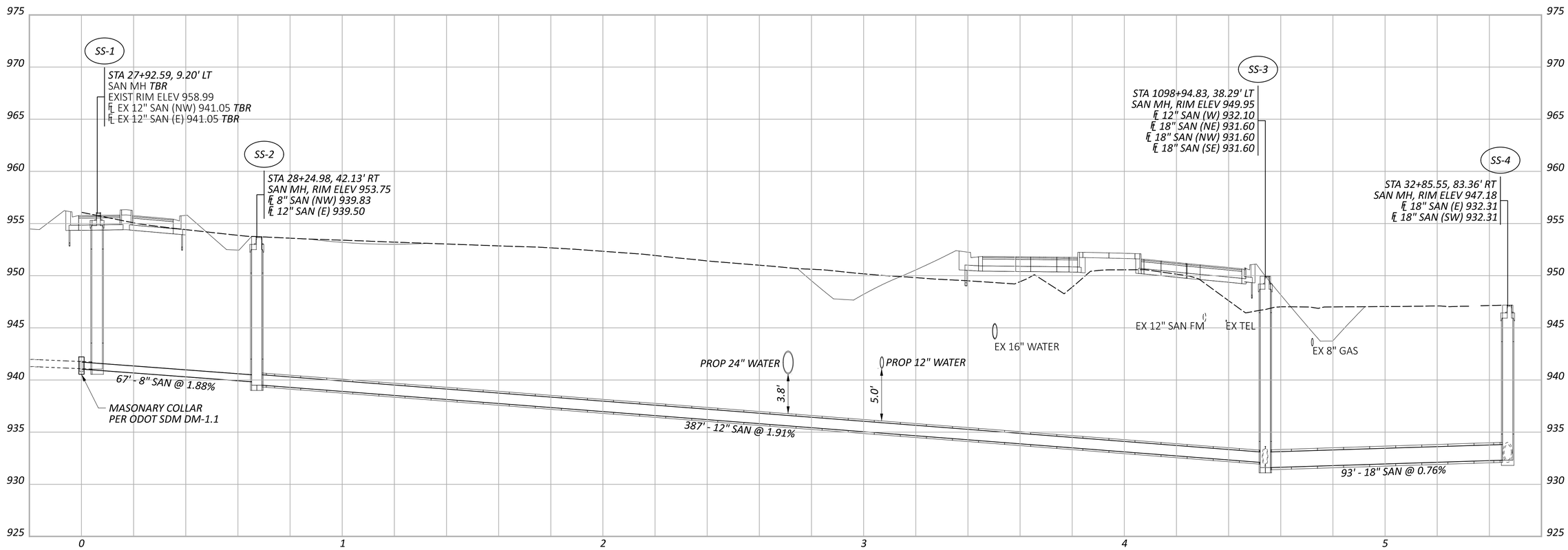
DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 90 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT



SANITARY SEWER PROFILE

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:13:19 PM USER: lstufler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 91 TOTAL 131

WATER LINE NOTES

1. ALL WATER LINE AND APPURTENANCES, MATERIALS AND INSTALLATION PROCEDURES, SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF MARYSVILLE.

2. ALL WATER LINE MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF MARYSVILLE AND THE AWWA. THE WATER LINE MATERIAL SHALL BE CLEARLY IDENTIFIED AS CONFORMING TO AWWA STANDARDS. WATER LINE PIPE SIZE 4 INCH IN DIAMETER SHALL CONFORM TO THE REQUIREMENTS OF AWWA C900. WATER LINE PIPE SIZES 6 INCHES THROUGH 12 INCHES IN DIAMETER SHALL CONFORM TO THE REQUIREMENTS OF AWWA C909, CLASS 235. WATER LINE PIPE SIZES GREATER THAN 12 INCHES IN DIAMETER SHALL CONFORM TO THE REQUIREMENTS OF AWWA C905.

3. ALL RESIDENTIAL SERVICE LINES SHALL BE 1" MINIMUM.

4. WATER LINE TRENCHES SHALL BE DEWATERED TO 2" BELOW THE BELL OF PIPE PRIOR TO INSTALLATION.

5. IN CASE OF A CONFLICT IN GRADE BETWEEN STORM SEWERS AND WATER LINE, THE WATER LINE SHALL BE LOWERED.

6. ALL WATER METERS SHALL BE INSTALLED INSIDE OF THE PROPOSED STRUCTURE, NOT IN A METER PIT, UNLESS SAID METER PIT IS APPROVED BY THE CITY OF MARYSVILLE. METER PITS SHALL COMPLY WITH STANDARD DRAWING WTR-07.

7. A BRONZE PAD LOCKABLE METER BYPASS BALL VALVE, APOLLO 75-100 SERIES OR EQUAL, IS REQUIRED FOR 1 1/2" AND LARGER METERS.

8. WATER SERVICE BOXES SHALL BE SET AT THE FOLLOWING LOCATIONS: SHORT SERVICE RUNS AT THE RIGHT-OF-WAY LINE OR 1 FOOT BEHIND THE BACK OF SIDEWALK. LONG SERVICE RUNS - 4 FEET FROM THE EDGE OF SIDEWALK (BETWEEN SIDEWALK AND CURB) OR CENTERED BETWEEN THE SIDEWALK AND CURB. WATER SERVICE BOXES WILL NOT BE PERMITTED WITHIN THE CONCRETE SIDEWALK OR FUTURE ASPHALT/CONCRETE DRIVEWAYS.

9. WATER LINES SHALL HAVE A MINIMUM COVER OF 4 FEET 6 INCHES FROM FINAL GRADE.

10. CONTRACTORS SHALL PROVIDE MEGALUG RETAINING GLANDS OR APPROVED EQUAL AT ALL BENDS AND TEES. CONTRACTORS SHALL BACK BENDS, ELBOWS, TEES WITH SOLID CONCRETE BLOCKS AGAINST UNDISTURBED SOIL. HARDWOOD WEDGES SHALL BE USED WHERE NECESSARY.

11. FIRE HYDRANTS SHALL BE MUELLER COMPANY CENTURION 250 HYDRANT WITH A 4 1/2 MAIN VALVE OPENING. THEY ARE TO HAVE A THREE WAY UPPER BARREL WITH ONE 4 1/2 INCH PUMPER NOZZLE WITH AN INTEGRAL 5" STORZ CONNECTION INSTALLED, AND TWO 2 1/2 INCH HOSE NOZZLES. MUST MEET A.W.W.A. C-502 STANDARDS.

12. ALL SERVICE LINES SHALL BE TYPE K SOFT COPPER CONFORMING TO ASTM B-88, AND UNDERGROUND JOINTS MUST BE COMPRESSION. AWWA C909 WATER LINE SHALL BE USED IF SERVICE EXCEEDS 2 INCHES.

13. WATER LINE SHALL BE DEFLECTED, PER MANUFACTURER SPECIFICATIONS, TO PROVIDE 1 FT 6 IN VERTICAL AND 10 FT HORIZONTAL CLEARANCE WITH SEWERS. IF THIS IS NOT FEASIBLE, THEN STANDARD CONSTRUCTION DRAWING WTR06 APPLIES.

WATER LINE NOTES (CONTINUED)

14. ALL WATER MAINS ARE TO BE SEPARATED 10 FEET HORIZONTALLY AND 1.5 FEET VERTICALLY FROM ALL PARALLEL SANITARY SEWERS.

15. WHENEVER A WATER MAIN AND SANITARY SEWER MUST CROSS, THE WATER MAIN SHALL BE 1.5 FEET ABOVE THE CROWN OF THE SEWER PIPE. MEASUREMENT TO BE BETWEEN THE OUTSIDE OF PIPE WALLS.

16. IF THE TOP OF THE OPERATING NUT FOR WATER VALVE IS GREATER THAN 36 INCHES BELOW FINISH GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO 36 INCHES BELOW FINAL GRADE.

17. TRANSVERSE WATER LINES WITHIN THE PAVEMENT AREA SHALL BE BACKFILLED WITH ODOT 304 COMPACTED GRANULAR MATERIAL OR ODOT 613 (LSM) TO THREE FEET BEYOND THE FACE OF CURB OR EDGE OF PAVEMENT.

18. PRESSURE TESTING WILL BE IN ACCORDANCE WITH AWWA C909 AND ASTM F1483 PVCO PIPE.

19. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE CITY OF MARYSVILLE SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AWWA C651 PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS.

20. INDIVIDUAL BOOSTER PUMPS WILL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE. (OHIO ADMINISTRATIVE CODE RULE 3745-95-07(A))

21. THE NORMAL WORKING PRESSURE IN THE WATERLINE WILL NOT BE LESS THAN 35 PSI. (2003 RECOMMENDED STANDARDS FOR WATER WORKS, PRESSURE, SECTION 8.2.1) AND A MINIMUM OF 20 PSI SHALL BE MAINTAINED AT GROUND LEVEL AT ALL POINTS OF THE DISTRIBUTION SYSTEM UNDER ALL OPERATING CONDITIONS

22. WATER LINES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH ANSI/AWWA C605-13; UNDERGROUND INSTALLATION OF POLYVINYL CHLORIDE (PVC) AND MOLECULARLY ORIENTED POLYVINYL CHLORIDE (PVCO) PRESSURE PIPE AND FITTINGS.

WATER LINE INSTALLATION

THE PROPOSED WATER LINES SHALL BE CONSTRUCTED OFFLINE, TO ENSURE WATER SERVICE IS MAINTAINED AT ALL TIMES.

CONSTRUCTION OF THE 24" AND 12" WATER LINES LOCATED ON THE SOUTH SIDE OF THE INDUSTRIAL PRKWAY SHALL BE CONSTRUCTED IN PHASE 1 WHEN THE WEST SIDE OF MITCHELL-DEWITT RD IS UNDER FULL CLOSURE AND TRAFFIC HAS BEEN SHIFTED TO THE EAST SIDE OF INDUSTRIAL PKWY.

CONSTRUCTION OF THE NORTHERN SECTION OF THE 12" WATER LINE, REDUCER AND HYDRANT SHALL BE CONSTRUCTED IN PHASE 2 WHEN THE EAST SIDE OF MITCHELL-DEWITT RD IS UNDER FULL CLOSURE AND TRAFFIC HAS BEEN SHIFTED TO THE WEST SIDE OF INDUSTRIAL PKWY.

BACKFILL OPERATIONS

BACKFILL OPERATIONS SHALL CONFORM TO THE STANDARD CONSTRUCTION DRAWINGS AND MEET THE SPECIFICATIONS LISTED BELOW IN NOTES 1, 2, AND 3.

1. TRENCHES OUTSIDE OF THE INFLUENCE OF STREETS SHALL REQUIRE 95% OF MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 2% OF OPTIMUM MOISTURE. MATERIAL SHALL BE PER ODOT 203.07 AND SUPPLEMENTAL SPECIFICATION 1015.

2. STORM, SANITARY, AND UTILITY TRENCHES WITHIN 3 FEET OF THE EDGE OF PAVEMENT AND WITHIN THE CONE OF INFLUENCE SHALL REQUIRE 98% OF THE MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 2% OPTIMUM MOISTURE. BACKFILL MATERIAL SHALL BE ODOT 304 AGGREGATE OR COM LOW STRENGTH MORTAR (LSM) 185. WHERE SAID RESULTS INDICATE THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF ODOT 203.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATION, ALL BACKFILL SHALL BE REMOVED AND RETESTED UNTIL COMPACTION MEETS THE REQUIREMENTS OF 203.07. CONE OF INFLUENCE TO BEGIN 3 FEET FROM THE EDGE OF PAVEMENT AND EXTEND ONE FOOT IN DISTANCE FOR EVERY ONE FOOT OF DEPTH.

3. STORM, SANITARY, AND UTILITY TRENCHES UNDER ROAD PAVEMENT SHALL REQUIRE 98% OF THE MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 1.5% OPTIMUM MOISTURE. BACKFILL MATERIAL SHALL BE ODOT 304 AGGREGATE OR COM LSM 185. BACKFILL TO BEGIN 3 FEET FROM EDGE OF PAVEMENT AND EXTEND ONE FOOT IN DISTANCE FOR EVERY ONE FOOT OF DEPTH. WHERE SAID RESULTS INDICATE THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF ODOT 203.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATION, ALL BACKFILL SHALL BE REMOVED AND RETESTED UNTIL COMPACTION MEETS THE REQUIREMENTS OF 203.07.

ITEM SPECIAL - CUT AND PLUG EXISTING WATER LINE

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 12, AND 16 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

ITEM 638 - 16" INSERTING VAVLE AND VALVE BOX

THE INSERTING VALVES ANDS VALVE BOX SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF MARYSVILLE SPECIFICATIONS.

ESTIMATED QUANTITIES

ITEM	QTY	UNIT	DESCRIPTION
202	186	FT	PIPE REMOVED, 24" AND UNDER
202	2	EACH	VALVE BOX REMOVED
638	2	EACH	6" GATE VALVE AND VALVE BOX
638	2	EACH	12" GATE VALVE AND VALVE BOX
638	2	EACH	12" INSERTING VALVE AND VALVE BOX
638	2	EACH	16" INSERTING VALVE AND VALVE BOX
638	2	EACH	12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX
638	2	EACH	6" FIRE HYDRANT
638	1	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE
638	1	EACH	FIRE HYDRANT REMOVED
638	1	EACH	VALVE BOX ADJUSTED TO GRADE
638	16	FT	SPECIAL - 6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (MARYSVILLE)
638	266	FT	SPECIAL - 12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (MARYSVILLE)
638	2	EACH	SPECIAL - 24" BUTTERFLY VALVE WITH VALVE BOX (MARYSVILLE)
638	2	EACH	SPECIAL - CUT AND PLUG EXISTING 12" WATER LINE
638	2	EACH	SPECIAL - CUT AND PLUG EXISTING 16" WATER LINE
638	2	EACH	WATER WORK, MISC.: 16" X 24" TAPPING SLEEVE AND VALVE BOX (HOT TAP)
638	487	FT	WATER WORK, MISC.: SPECIAL - 24" WATERMAIN POLYVINYL CHLORIDE PIPE AND FITTINGS (MARYSVILLE)

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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER LZS
REVIEWER KAM 06/02/23
PROJECT ID 2022.01156

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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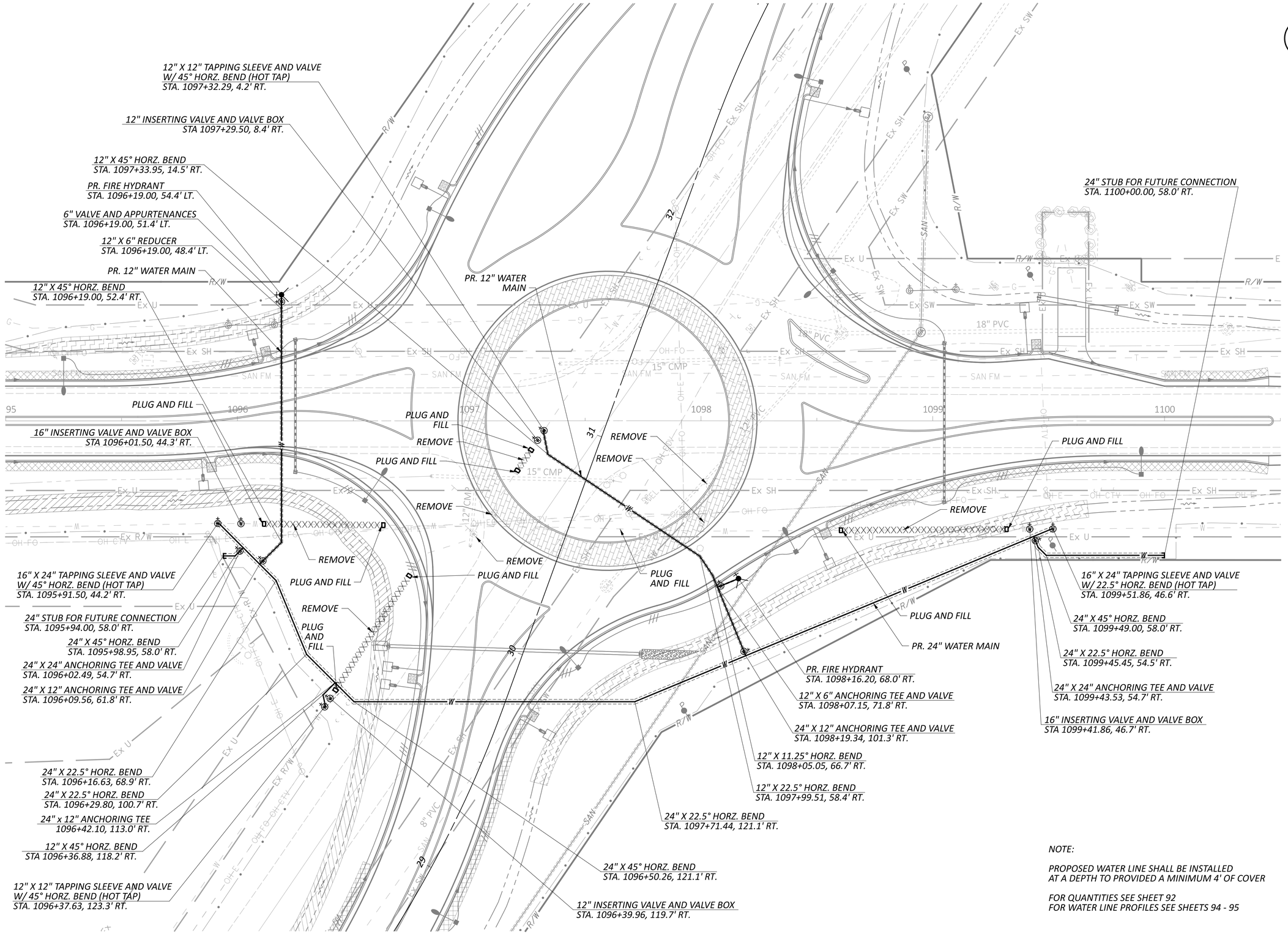


NOTE:

PROPOSED WATER LINE SHALL BE INSTALLED AT A DEPTH TO PROVIDED A MINIMUM 4' OF COVER

FOR QUANTITIES SEE SHEET 92
FOR WATER LINE PROFILES SEE SHEETS 94 - 95

HORIZONTAL SCALE IN FEET
0 10 20 40

WATER WORK PLAN

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

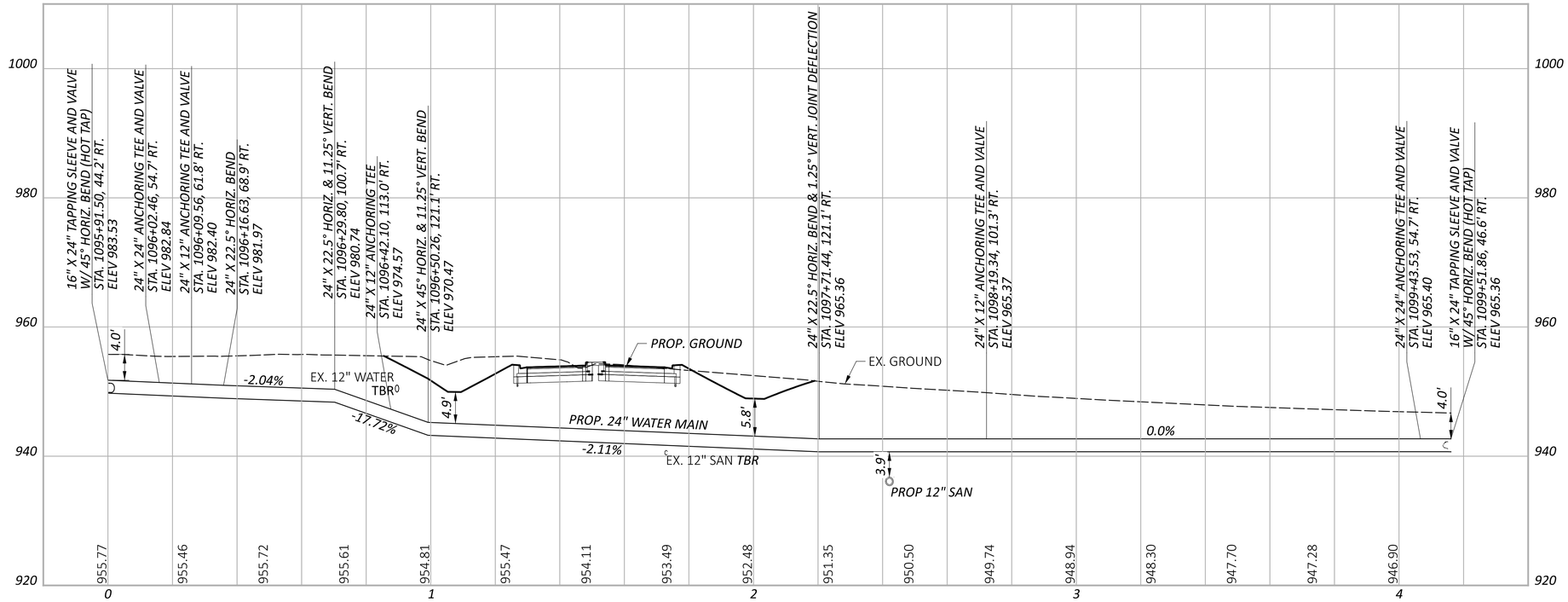
REVIEWER
KAM 06/02/23

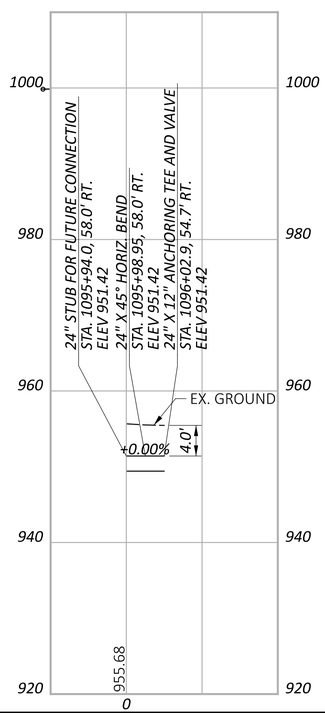
PROJECT ID
2022.01156

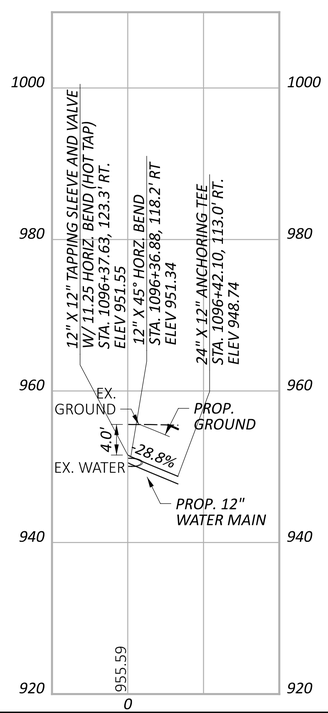
SHEET 93 TOTAL 131

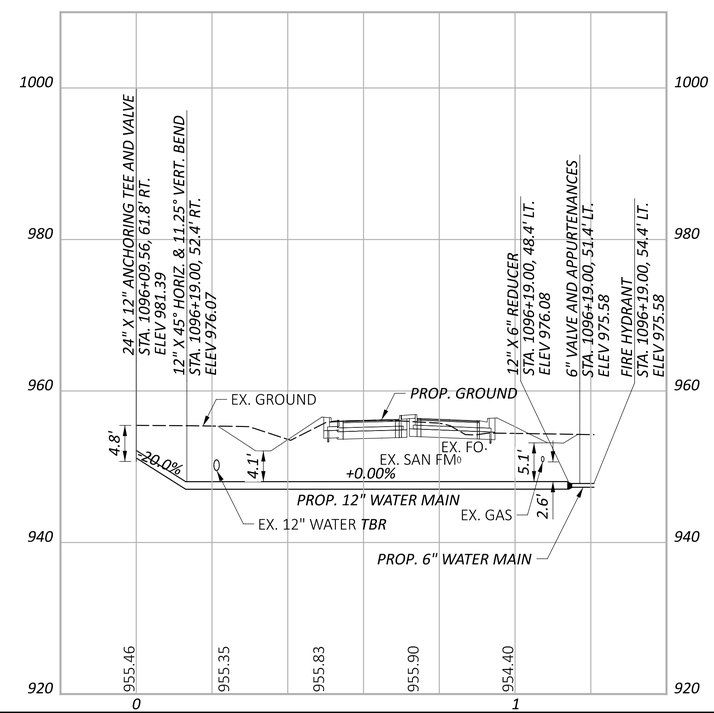
NOTES:
ALL STATION AND OFFSETS ARE FROM ℄ CONST & R/W INDUSTRIAL PKWY UNLESS OTHERWISE NOTED

A MINIMUM OF 4.0' OF COVER FROM THE TOP OF THE WATER MAIN TO THE PROPOSED GRADE SHALL BE MAINTAINED.









WATER WORK PROFILE

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

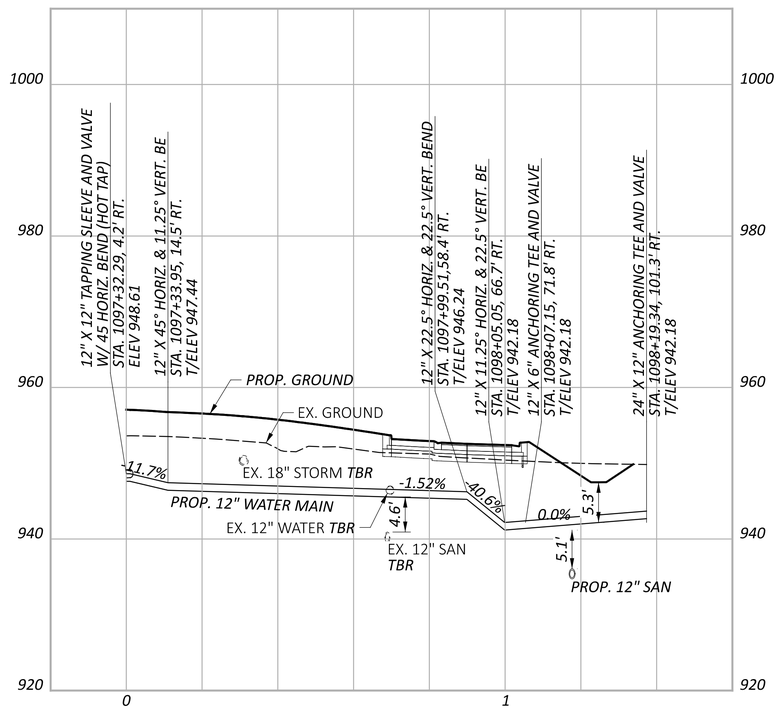
REVIEWER
KAM 06/02/23

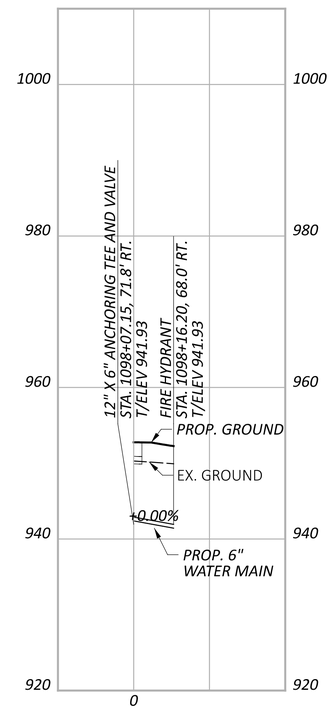
PROJECT ID
2022.01156

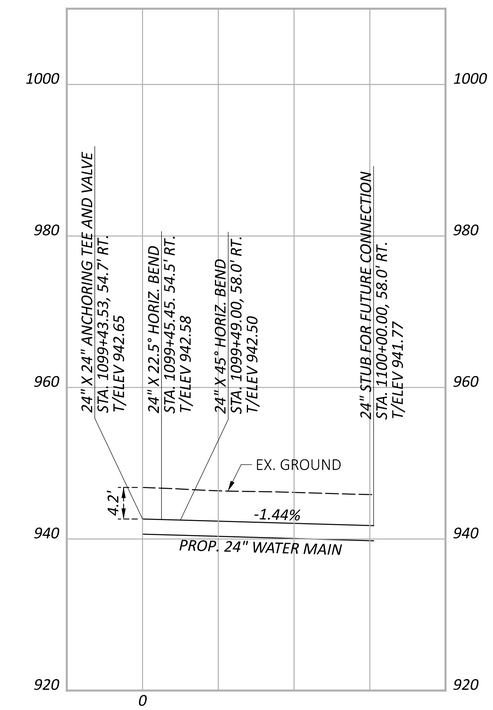
SHEET 94 TOTAL 131

NOTES:
ALL STATION AND OFFSETS ARE FROM ℄ CONST & R/W INDUSTRIAL PKWY UNLESS OTHERWISE NOTED

A MINIMUM OF 4.0' OF COVER FROM THE TOP OF THE WATER MAIN TO THE PROPOSED GRADE SHALL BE MAINTAINED.







WATER WORK PROFILE

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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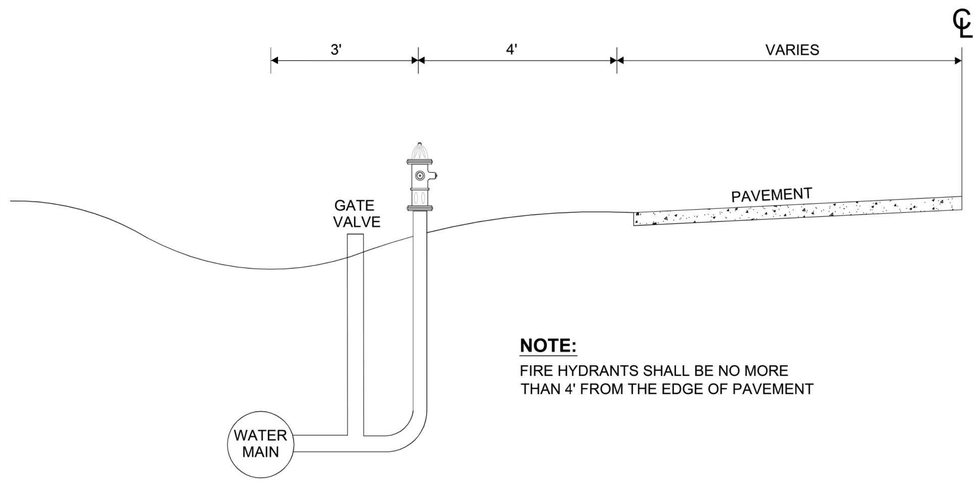
DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

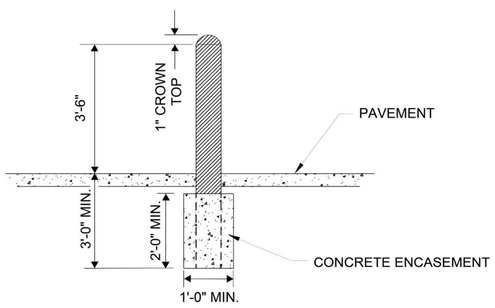
REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

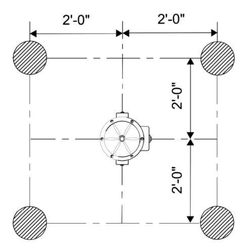
SHEET 95 TOTAL 131



NOTE:
FIRE HYDRANTS SHALL BE NO MORE THAN 4' FROM THE EDGE OF PAVEMENT



SECTION VIEW



PLAN VIEW

NOTE:

1. 6" STEEL FIRE HYDRANT PROTECTION POST FILLED WITH CONCRETE AND CAPPED WITH CROWN TOP. WIRE BRUSH AND PAINT WITH ONE COAT OF PRIMER AND TWO COATS OF FEDERAL SAFETY YELLOW ENAMEL PAINT.
2. BOLLARDS AROUND FIRE HYDRANT TO BE ADDED AS ADVISED BY THE CITY WATER SUPERINTENDENT.

NOT TO SCALE

DATE: APRIL 2020 | STANDARD CONSTRUCTION DRAWING

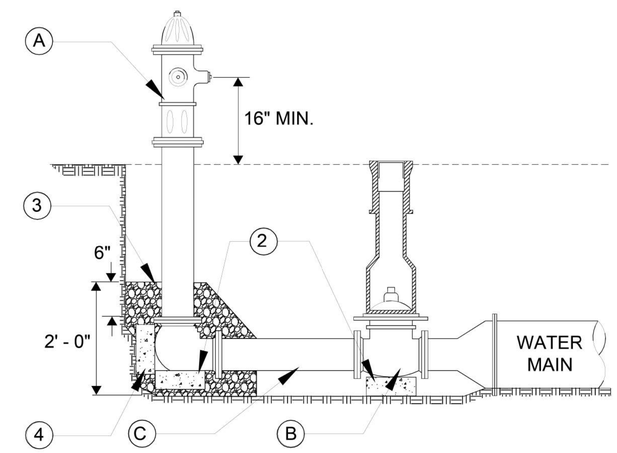
CITY OF marysville ENGINEERING

FIRE HYDRANT LAYOUT & HYDRANT PROTECTION

DRAWING NO. WTR-01

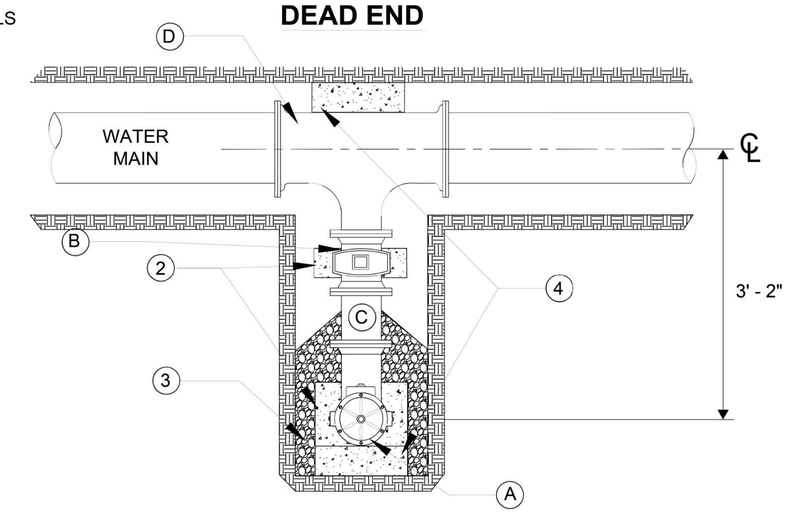
SHEET 1 OF 4

NOTE:
FOR ITEM DETAILS SEE SHEET 4



DEAD END

NOTE:
FOR ITEM DETAILS SEE SHEET 4



TYPE I

NOT TO SCALE

DATE: APRIL 2020 | STANDARD CONSTRUCTION DRAWING

CITY OF marysville ENGINEERING

FIRE HYDRANT CONNECTION TO MAIN SECTION VIEW

DRAWING NO. WTR-01

SHEET 2 OF 4

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: LZS

REVIEWER: KAM 06/02/23

PROJECT ID: 2022.01156

SHEET 96 | TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:13:48 PM USER: lstutler
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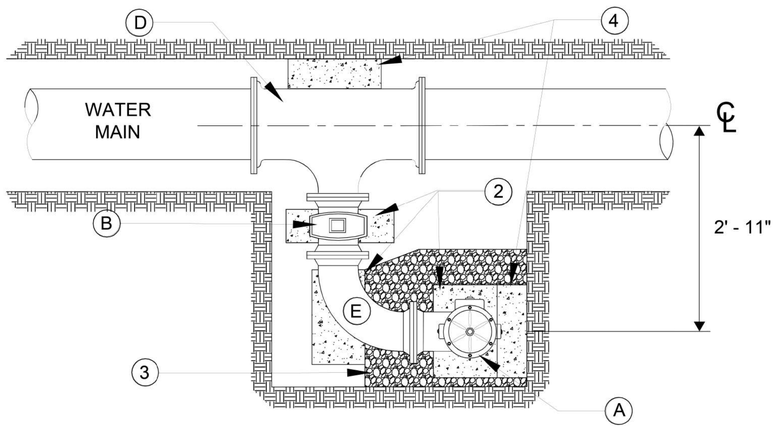
NOTE:
FOR ITEM DETAILS
SEE SHEET 4



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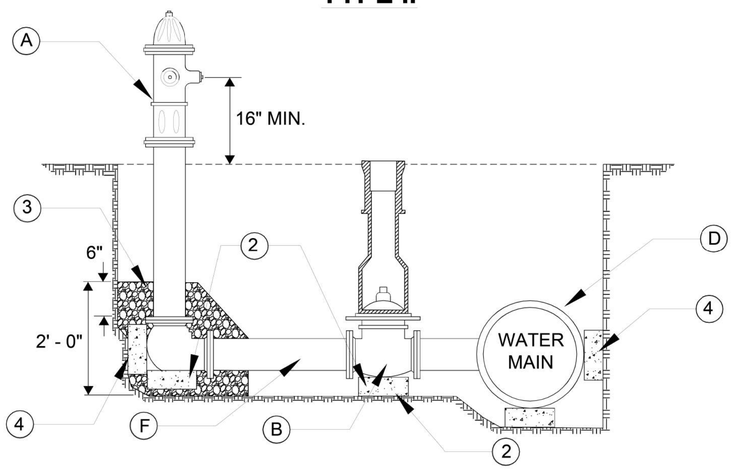

TYPE III

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	FIRE HYDRANT CONNECTION TO MAIN PLAN VIEW	DRAWING NO. WTR-01 SHEET 3 OF 4

NOTE:

1. THE DISTANCE FROM THE CENTERLINE OF THE MAIN TO THE CENTERLINE OF THE HYDRANT SHALL BE 34-38" EXCEPT WHEN INDIVIDUAL CIRCUMSTANCES PROVE IT TO BE INFEASIBLE. WHEN SUCH CIRCUMSTANCES OCCUR, THE LENGTH OF THE LEAD WILL BE NOTED ON THE DRAWINGS WITH STATIONING.
2. SOLID 4" X 8" X 16" CONCRETE BLOCK SHALL BE USED UNDER ALL VALVES AND HYDRANT ELBOWS.
3. CRUSHED #57 STONE FILL AROUND HYDRANT DRAIN TO A DEPTH OF 2' -0".
4. SOLID 4" X 8" X 16" CONCRETE BLOCK BRACED AGAINST UNDISTURBED SOIL. NO NEED FOR BLOCKING IF USING ANCHOR TEE WITH ANCHOR COUPLING OR ANCHOR 90° ON FIRE HYDRANTS.
5. PUMPER NOZZLE FACING STREET AND SHALL BE 2' - 0" BACK OF CURB WHERE APPLICABLE.

TABLE 1: FIRE HYDRANT ASSEMBLY ITEMS

ITEM	DESCRIPTION
A	MUELLER VALVE CO. HYDRANT, 3 WAY CENTURION 250 MODEL
B	6" M.J. GATE VALVE 3 PIECE VALVE BOX
C	12" LONG, 6" DIAMETER ANCHOR PIPE OR MEGA-LUGS AS ANCHORS
D	ANCHOR TEE (F1217) (MAIN DIAMETER) X 6"
E	6" DIAMETER ANCHOR ELBOW (F1218)
F	VARIABLE LENGTH PIPE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	FIRE HYDRANT DETAILS	DRAWING NO. WTR-01 SHEET 4 OF 4

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

WATER WORK STANDARD CONSTRUCTION DRAWINGS

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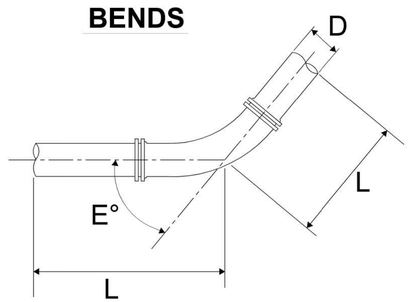
DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET 97 TOTAL 131

BENDS



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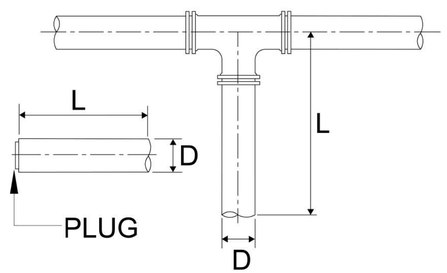

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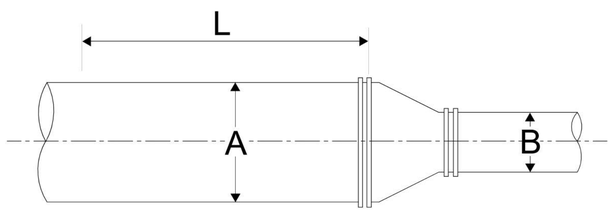

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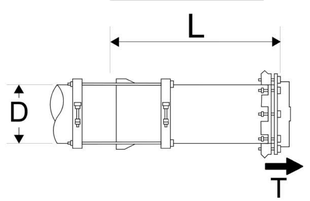


NOTE:

1. REQUIREMENTS FOR RESTRAINED JOINTS SHALL BE DICTATED BY THE RESTRAINT LENGTH CALCULATOR MADE BY EBBA IRON SALES, INC. (https://rlc.ebaa.com/calculator.php)

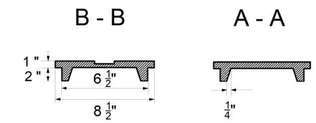
2. THE FOLLOWING ASSUMPTIONS SHALL BE MADE ON ALL PUBLIC WATERLINE PROJECTS:

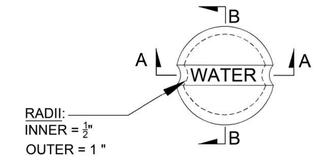
   SOIL TYPE - CL
   SAFETY FACTOR - 1.5 TO 1.0
   TRENCH TYPE - 4
   TEST PRESSURE - 150 PSI

NOT TO SCALE

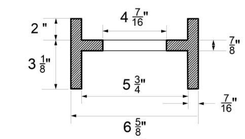
DATE: JUNE 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	RESTRAINED JOINTS	DRAWING NO. WTR-03

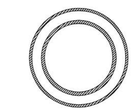
LID
17 LBS.





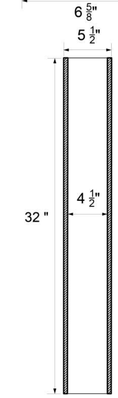
RISER
14 LBS.



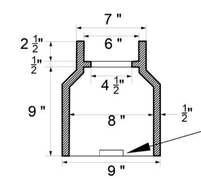


Note:
-NOT TO SCALE
-AVERAGE WEIGHTS TO THE NEAREST EVEN LB. CALCULATED USING 0.26 LB/CU IN

STEM
64 LBS.

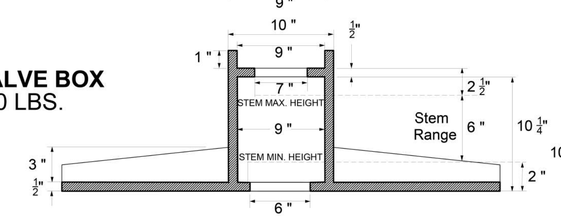


BASE
41 LBS.

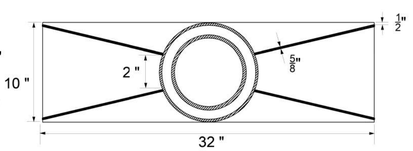


BASE WILL BE LEVEL OVER VALVE NUT AND THE NUT IS NOTE TO EXTEND MORE THAN 2" INTO THE BASE.

VALVE BOX
120 LBS.



SECTION VIEW



PLAN VIEW

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	HEAVY DUTY VALVE BOX	DRAWING NO. WTR-05

WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: LZS
REVIEWER: KAM 06/02/23
PROJECT ID: 2022.01156
SHEET 98 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:15:35 PM USER: lstutler
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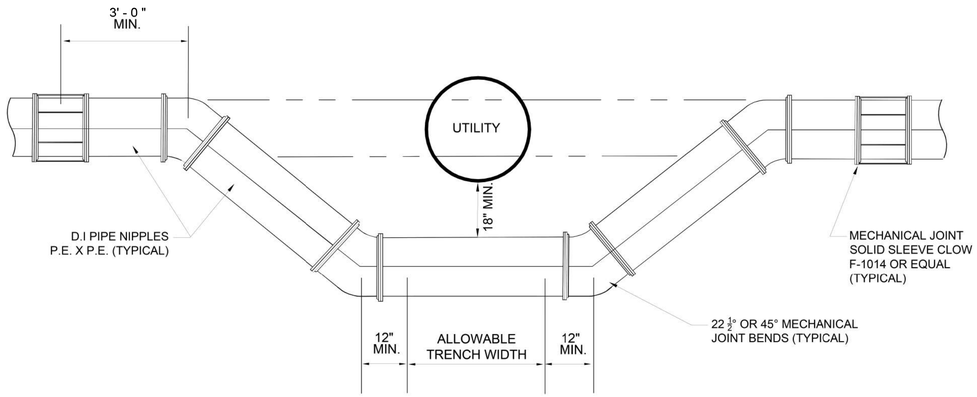
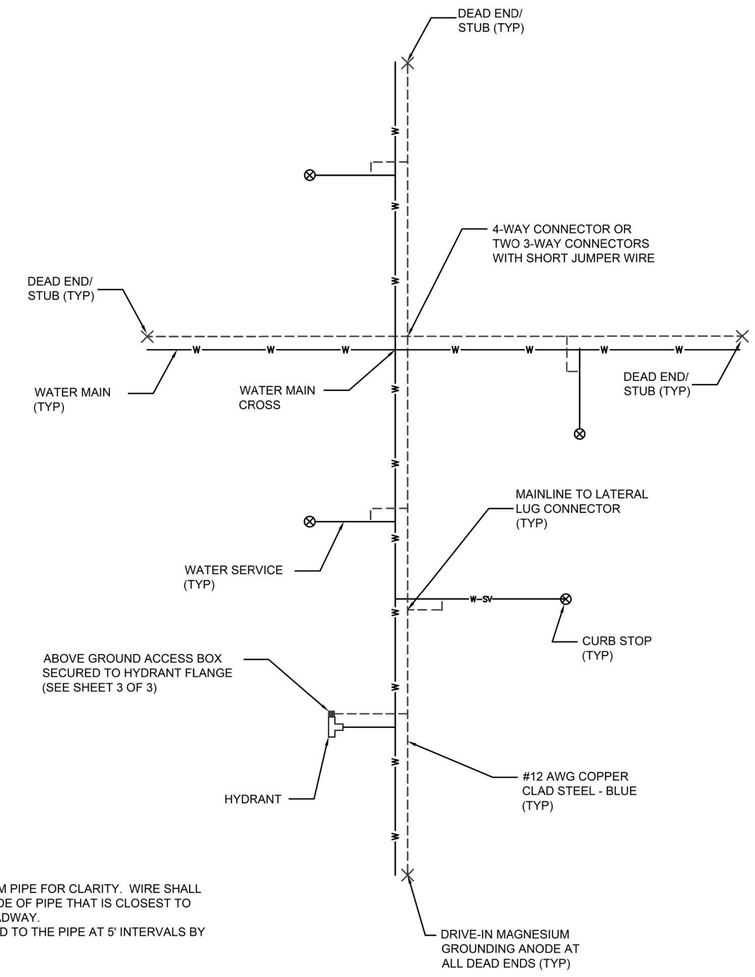


NOTES:

1. TIME AND DURATION OF SHUTDOWN SHALL BE DETERMINED BY THE SUPERINTENDENT OF THE MARYSVILLE DIVISION OF WATER.
2. THE CONTRACTOR SHALL NOTIFY ALL WATER CONSUMERS EFFECTED BY THE PROPOSED WORK AT LEAST 24 HOURS PRIOR TO THE SHUTDOWN.
3. ALL BENDS SHALL BE SECURED BY MEGA-LUGS AND RODDING OR OTHER METHODS AS APPROVED BY THE WATER SUPERINTENDENT. CONCRETE SHALL THEN BE PROVIDED IN ACCORDANCE WITH THE CITY OF MARYSVILLE STANDARD DETAILS AND SPECIFICATIONS FOR OVER BENDS AND SAG BENDS.
4. THE RELOCATED LINES SHALL BE LAID TO THE NEW LINE AND GRADE, TESTED AND DISINFECTED PRIOR TO SHUT DOWN OF EXISTING MAIN AND CONNECTION OF THE RELOCATED LINES TO THE EXISTING MAIN. IF LINES TO BE RELOCATED ARE PRIVATE, THEY WILL TEST AND BACTERIA TEST COMPLETE LINE.
5. ALL WATER LINES SHALL BE DISINFECTED BY SWABBING WITH A 5% HYPOCHLORITE SOLUTION IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF A.W.W.A. C-601.
6. MATERIALS USED IN LOWERING SHALL MATCH MATERIALS OF ADJACENT WATERLINE.

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	WATERLINE LOWERING	DRAWING NO. WTR-06



NOTES:

1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE SIDE OF PIPE THAT IS CLOSEST TO THE CENTERLINE OF ROADWAY.
2. WIRE SHALL BE FASTENED TO THE PIPE AT 5' INTERVALS BY DUCT TAPE.

TRACER WIRE PLAN (WATER)

NO SCALE

★ PRIOR TO ACCEPTANCE BY THE CITY ALL TRACER WIRE MUST BE TESTED FOR FUNCTIONALITY

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	TRACER WIRE DETAILS	DRAWING NO. WTR-08 SHEET 1 OF 3

WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 99 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:16:28 PM USER: lstutler
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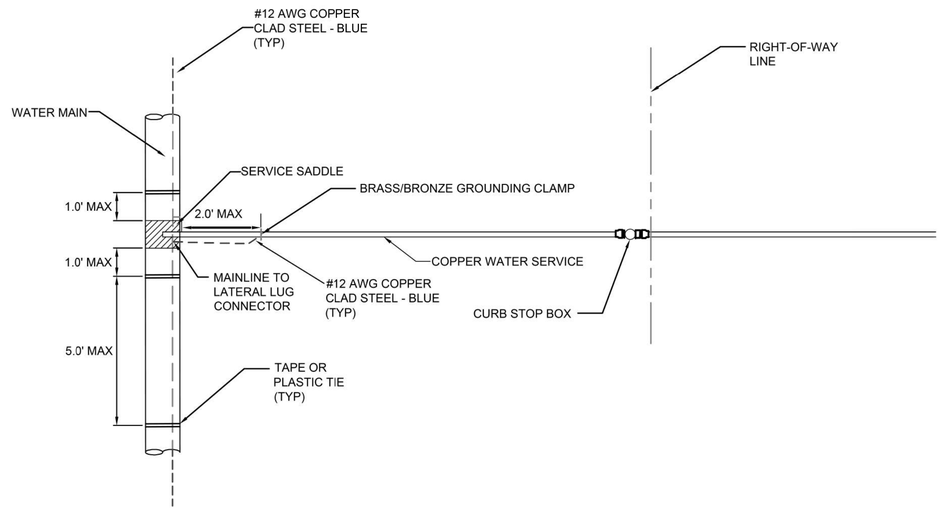


WATER SERVICE - PLAN VIEW

NO SCALE

Note:

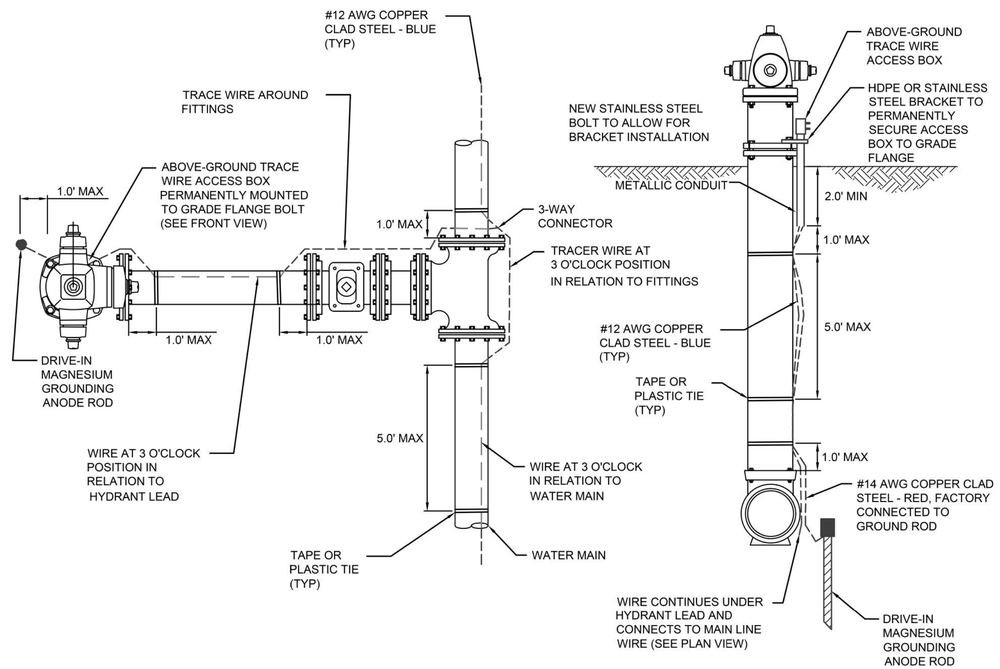
- FOR ALL SERVICES, TRACER WIRE SHALL BE GROUNDED USING A BRASS/BRONZE GROUNDING CLAMP.

- TRACE WIRE ON SERVICES SHALL TERMINATE WITHIN 18" - 24" OF WATER MAIN.

★ PRIOR TO ACCEPTANCE BY THE CITY ALL TRACER WIRE MUST BE TESTED FOR FUNCTIONALITY

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	TRACER WIRE DETAILS	DRAWING NO. WTR-08 SHEET 2 OF 3



HYDRANT - PLAN VIEW

NO SCALE

HYDRANT - SECTION VIEW

NO SCALE

★ PRIOR TO ACCEPTANCE BY THE CITY ALL TRACER WIRE MUST BE TESTED FOR FUNCTIONALITY

NOT TO SCALE

DATE: APRIL 2020	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	TRACER WIRE DETAILS	DRAWING NO. WTR-08 SHEET 3 OF 3

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: LZS

REVIEWER: KAM 06/02/23

PROJECT ID: 2022.01156

SHEET 100 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:17:17 PM USER: lstutler
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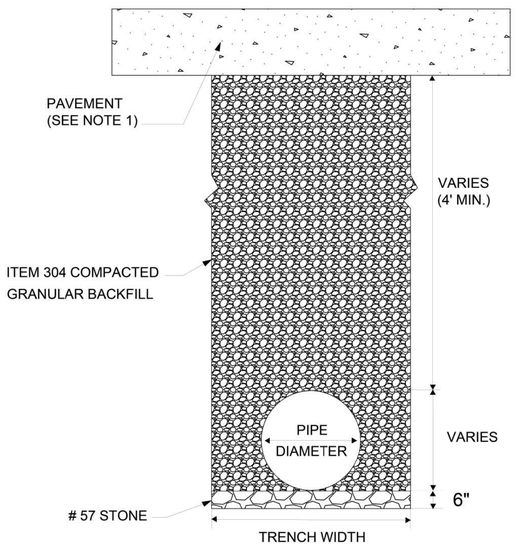
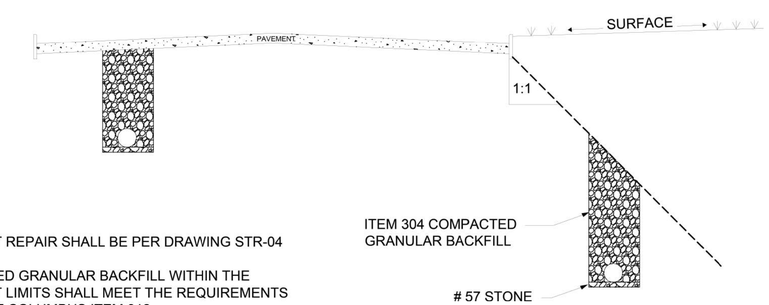
INSIDE PAVEMENT LIMITS



DIMENSIONS (INCHES)		
PIPE DIAMETER	TRENCH WIDTH	
	MIN	MAX
6	30	48
8	30	48
10	30	48
12	32	48
15	36	50
16	38	52
18	40	53
20	42	56
21	44	57
24	48	60
27	52	64
30	57	67
33	61	71
36	64	74
42	71	81
48	78	88
54	87	95
60	96	102

OUTSIDE PAVEMENT LIMITS



NOTES:

1. PAVEMENT REPAIR SHALL BE PER DRAWING STR-04
2. COMPACTED GRANULAR BACKFILL WITHIN THE PAVEMENT LIMITS SHALL MEET THE REQUIREMENTS OF CITY OF COLUMBUS ITEM 912.

NOT TO SCALE

DATE: APRIL 2021	STANDARD CONSTRUCTION DRAWING	
CITY OF marysville ENGINEERING	TRENCH DETAIL	DRAWING NO. WTR-09

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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WATER WORK STANDARD CONSTRUCTION DRAWINGS

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 101 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

PAVEMENT MARKING SUBSUMMARY

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	EDGE LINE, 4" (WHITE)	CENTER LINE	CHANNELIZING LINE, 8"	DOTTED LINE, 12"	CHEVRON MARKING
						644	644	644	644	644
						MILE	MILE	FT	FT	FT
CHW1	105	MITCHELL-DEWITT RD	33+11.00	33+28.00	LT			20		
CHW2	105	MITCHELL-DEWITT RD	33+10.00	33+28.00	LT			19		
CHW3	105	INDUSTRIAL PKWY	1098+72.00	1099+25.00	LT			54		
CHW4	105	INDUSTRIAL PKWY	1098+70.00	1099+50.00	LT			81		
CVW1	105	INDUSTRIAL PKWY	1098+70.00	1099+25.00	LT					17
DBL1	106	MITCHELL-DEWITT RD	25+50.00	25+72.00	CL		22			
DBL2	106	MITCHELL-DEWITT RD	25+72.00	27+22.00	RT		150			
DBL3	106	MITCHELL-DEWITT RD	25+72.00	27+22.00	LT		150			
DBL4	106	MITCHELL-DEWITT RD	34+98.00	36+48.00	LT		150			
DBL5	106	MITCHELL-DEWITT RD	34+98.00	36+48.00	RT		150			
DBL6	106	MITCHELL-DEWITT RD	36+48.00	37+57.00	CL		109			
DBL7	107	INDUSTRIAL PKWY	1086+25.00	1090+00.00	CL		375			
DBL8	107	INDUSTRIAL PKWY	1090+00.00	1093+25.00	CL		325			
DBL9	107	INDUSTRIAL PKWY	1093+25.00	1094+75.00	LT		150			
DBL10	107	INDUSTRIAL PKWY	1093+25.00	1094+75.00	RT		150			
DBL11	108	INDUSTRIAL PKWY	1100+45.00	1101+95.00	LT		150			
DBL12	108	INDUSTRIAL PKWY	1100+45.00	1101+95.00	RT		150			
DBL13	108	INDUSTRIAL PKWY	1101+95.00	1105+00.00	CL		305			
DBL14	108	INDUSTRIAL PKWY	1105+00.00	1109+00.00	CL		400			
DL1	105	INDUSTRIAL PKWY	1097+39.00	1097+81.00	RT				43	
DL2	105	MITCHELL-DEWITT RD	31+46.00	31+65.00	RT				23	
DL3	105	MITCHELL-DEWITT RD	31+79.00	32+23.00	RT				47	
DL4	105	MITCHELL-DEWITT RD	30+22.00	30+69.00	LT				53	
DL5	105	INDUSTRIAL PKWY	1096+50.00	1096+93.00	LT				47	
DL6	105	INDUSTRIAL PKWY	1097+23.00	1097+62.00	LT				41	
DL7	105	MITCHELL-DEWITT RD	33+28.00	34+10.00	LT				87	
DL8	105	INDUSTRIAL PKWY	1099+50.00	1100+00.00	LT				50	
EW1	105	INDUSTRIAL PKWY	1097+02.00	1097+39.00	RT	43				
EW2	105	MITCHELL-DEWITT RD	31+05.00	31+46.00	RT	43				
EW3	105	MITCHELL-DEWITT RD	31+65.00	31+79.00	RT	16				
EW4	105	INDUSTRIAL PKWY	1097+62.00	1098+17.00	LT	62				
EW5	105	INDUSTRIAL PKWY	1096+93.00	33+10.00	LT	193				
EW6	105	MITCHELL-DEWITT RD	30+69.00	31+10.00	LT	43				
EW7	106	MITCHELL-DEWITT RD	24+20.00	27+22.00	RT	299				
EW8	106	MITCHELL-DEWITT RD	25+50.00	27+22.00	LT	174				
EW9	106	MITCHELL-DEWITT RD	34+98.00	37+57.00	LT	256				
EW10	106	MITCHELL-DEWITT RD	34+98.00	37+57.00	RT	262				
EW11	107	INDUSTRIAL PKWY	1086+25.00	1090+00.00	LT	376				
EW12	107	INDUSTRIAL PKWY	1086+25.00	1090+00.00	RT	374				
EW13	107	INDUSTRIAL PKWY	1090+00.00	1094+75.00	LT	475				
EW14	107	INDUSTRIAL PKWY	1090+00.00	1094+75.00	RT	475				
EW15	108	INDUSTRIAL PKWY	1100+45.00	1105+00.00	LT	455				
EW16	108	INDUSTRIAL PKWY	1100+45.00	1105+00.00	RT	455				
EW17	108	INDUSTRIAL PKWY	1105+00.00	1109+00.00	LT	400				
EW18	108	INDUSTRIAL PKWY	1105+00.00	1109+00.00	RT	400				
SUBTOTAL						4801.00	2736.00			
TOTALS CARRIED TO GENERAL SUMMARY						0.91	0.52	174	391	17

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 102 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:18:42 PM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

PAVEMENT MARKING SUBSUMMARY

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	644 EDGE LINE, 4" (YELLOW)	644 YIELD LINE	644 LANE ARROW	644 TRANSVERSE/DIAGONAL LINE (YELLOW)
						MILE	FT	EACH	FT
LA1	105	MITCHELL-DEWITT RD	31+67.00		LT			1	
LA2	105	MITCHELL-DEWITT RD	32+50.00		LT			1	
LA3	105	INDUSTRIAL PKWY	1098+49.00		LT			1	
LA4	105	INDUSTRIAL PKWY	1099+36.00		LT			1	
TLY1	106	MITCHELL-DEWITT RD	26+44.00	27+10.00	LT/RT				17
TLY2	106	MITCHELL-DEWITT RD	35+15.00	35+80.00	LT/RT				16
TLY3	107	INDUSTRIAL PKWY	1093+97.00	1094+63.00	LT/RT				17
TLY4	107	INDUSTRIAL PKWY	1100+62.00	1101+27.00	LT/RT				16
YE1	105	MITCHELL-DEWITT RD	28+50.00	30+32.00	LT	184			
YE2	105	MITCHELL-DEWITT RD	28+50.00	30+25.00	RT	178			
YE3	105	INDUSTRIAL PKWY	1095+50.00	1096+83.00	LT	137			
YE4	105	INDUSTRIAL PKWY	1095+50.00	1096+78.00	RT	131			
YE5	105	INDUSTRIAL PKWY	1098+36.00	1098+72.00	LT	46			
YE6	105	INDUSTRIAL PKWY	1098+41.00	1099+50.00	LT/RT	112			
YE7	105	INDUSTRIAL PKWY	1098+36.00	1099+50.00	RT	118			
YE8	105	MITCHELL-DEWITT RD	31+37.00	33+11.00	LT	194			
YE9	105	MITCHELL-DEWITT RD	31+86.00	34+00.00	LT	222			
YE10	105	MITCHELL-DEWITT RD	31+82.00	34+00.00	RT	219			
YE11	106	MITCHELL-DEWITT RD	27+22.00	28+50.00	LT	127			
YE12	106	MITCHELL-DEWITT RD	27+22.00	28+50.00	RT	129			
YE13	106	MITCHELL-DEWITT RD	34+00.00	34+98.00	LT	100			
YE14	106	MITCHELL-DEWITT RD	34+00.00	34+98.00	RT	97			
YE15	107	INDUSTRIAL PKWY	1094+75.00	1095+50.00	LT	75			
YE16	107	INDUSTRIAL PKWY	1094+75.00	1095+50.00	RT	75			
YE17	108	INDUSTRIAL PKWY	1099+50.00	1100+45.00	LT	95			
YE18	108	INDUSTRIAL PKWY	1099+50.00	1100+45.00	RT	95			
YL1	105	MITCHELL-DEWITT RD	30+15.00	30+25.00	RT		18		
YL2	105	INDUSTRIAL PKWY	1098+41.00	1098+50.00	LT		16		
YL3	105	INDUSTRIAL PKWY	1098+36.00	1098+48.00	LT		16		
YL4	105	MITCHELL-DEWITT RD	31+86.00	31+92.00	LT		17		
YL5	105	MITCHELL-DEWITT RD	31+37.00	31+37.00	LT		16		
YL6	105	INDUSTRIAL PKWY	1096+66.00	1096+78.00	RT		19		
SUBTOTAL						2334.00			
TOTALS CARRIED TO GENERAL SUMMARY						0.44	102	4	66

DESIGN AGENCY
AMPHEON STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 103 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:18:43 PM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION	SIDE	CODE	SIZE (W X H)	630 GROUND MOUNTED SUPPORT, NO. 2 POST (FT)	630 GROUND MOUNTED SUPPORT, NO. 3 POST (FT)	630 SIGN POST REFLECTOR (RED) (EACH)	630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED (EACH)	630 SIGN, FLAT SHEET (SF)	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL (EACH)	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION (EACH)	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL (EACH)	NOTES
SR-1	106	EX MITCHELL-DEWITT RD	27+37	LT			15						2	1	
SR-2	106	EX MITCHELL-DEWITT RD	27+37	RT								1		1	
SR-3	105	EX MITCHELL-DEWITT RD	29+66	LT			13.5						1	1	
SR-4	105	EX MITCHELL-DEWITT RD	30+26	LT								1		1	
SR-5	105	EX MITCHELL-DEWITT RD	30+27	LT								2		1	
SR-6	105	EX MITCHELL-DEWITT RD	30+62	RT								1		1	
SR-7	105	EX MITCHELL-DEWITT RD	31+31	LT								1		1	
SR-8	105	EX MITCHELL-DEWITT RD	31+51	RT								2		1	
SR-9	105	EX MITCHELL-DEWITT RD	31+66	RT								1		1	
SR-10	105	EX MITCHELL-DEWITT RD	33+43	RT			13.5						1	1	
SR-11	107	EX MITCHELL-DEWITT RD	34+84	LT								1		1	
SR-12	107	EX MITCHELL-DEWITT RD	34+86	RT								1		1	
SR-13	108	INDUSTRIAL PKWY	1094+55	RT								3		1	
SR-14	108	INDUSTRIAL PKWY	1095+37	LT			13.5						1	1	
SR-15	108	INDUSTRIAL PKWY	1100+74	LT								1		1	
SR-16	108	INDUSTRIAL PKWY	1101+93	RT			13.5						1	1	
SR-17	108	INDUSTRIAL PKWY	1103+73	LT								3		1	
S-1	106	MITCHELL-DEWITT RD	22+20	RT	W1-4R-36	36 X 36		15			9				
					W13-1P-18	18 X 18					2.25				
S-2	106	MITCHELL-DEWITT RD	24+70	RT	W2-6-30	30 X 30		14.5			6.25				
					W13-1P-18	18 X 18					2.25				
S-3	106	MITCHELL-DEWITT RD	27+75	CL	R4-7-24	24 X 30	13				5				
S-4	105	MITCHELL-DEWITT RD	30+22	LT	D1-H1-72	72 X 12	11.5 11.5				6				2 POSTS
S-5	105	MITCHELL-DEWITT RD	30+68	RT	R6-4-30	30 X 24	13				5				
S-6	105	INDUSTRIAL PKWY	1096+74	RT	D1-H1-72	72 X 12	11.5 11.5				6				2 POSTS
S-7	105	INDUSTRIAL PKWY	1097+20	RT	R6-4-30	30 X 24	13				5				
S-8	105	INDUSTRIAL PKWY	1098+46	LT	D1-H1-72	72 X 12	11.5 11.5				6				2 POSTS
S-9	105	INDUSTRIAL PKWY	1098+01	LT	R6-4-30	30 X 24	13				5				
S-10	105	MITCHELL-DEWITT RD	31+91	RT	D1-H1-72	72 X 12	11.5 11.5				6				2 POSTS
S-11	105	MITCHELL-DEWITT RD	31+42	LT	R6-4-30	30 X 24	13				5				
S-12	105	INDUSTRIAL PKWY	1098+52	LT	R1-2-36	36 X 36	13.5		1		3.9				
S-13	105	INDUSTRIAL PKWY	1098+58	LT	R1-2-36	36 X 36				1	3.9				
S-14	105	MITCHELL-DEWITT RD	31+96	LT	R1-2-36	36 X 36	13.5		1		3.9				
S-15	105	MITCHELL-DEWITT RD	31+39	LT	R1-2-36	36 X 36	13.5		1		3.9				
S-16	105	INDUSTRIAL PKWY	1098+54	RT	R1-2-36	36 X 36				1	3.9				
S-17	105	MITCHELL-DEWITT RD	30+02	RT	R1-2-36	36 X 36				1	3.9				
S-18	107	MITCHELL-DEWITT RD	34+84	LT	R3-8LT_RT-36	36 X 36	13.5				9				
S-19	107	MITCHELL-DEWITT RD	34+98	CL	R4-7-24	24 X 30	13				5				
S-20	107	MITCHELL-DEWITT RD	37+48	LT	W2-6-30	30 X 30		14.5			6.25				
					W13-1P-18	18 X 18					2.25				
S-21	107	MITCHELL-DEWITT RD	39+48	LT	W1-4R-36	36 X 36		15			9				
					W13-1P-18	18 X 18					2.25				
S-22	108	INDUSTRIAL PKWY	1092+23	RT	W2-6-30	30 X 30		14.5			6.25				
					W13-1P-18	18 X 18					2.25				
S-23	108	INDUSTRIAL PKWY	1094+75	CL	R4-7-24	24 X 30	13				5				
S-24	108	INDUSTRIAL PKWY	1100+05	LT	R3-8LT_RT-36	36 X 36	13.5				9				
S-25	108	INDUSTRIAL PKWY	1100+45	CL	R4-7-24	24 X 30	13				5				
S-26	108	INDUSTRIAL PKWY	1102+95	LT	W2-6-30	30 X 30		14.5			6.25				
					W13-1P-18	18 X 18					2.25				
TOTALS CARRIED TO GENERAL SUMMARY							333	88	3	3	162	18	6	17	

SIGNING SUBSUMMARY

DESIGN AGENCY: STRUCTUREPOINT LLC, A WIDEBEAM

DESIGNER: LZS

REVIEWER: KAM 06/02/23

PROJECT ID: 2022.01156

SHEET 104 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:18:44 PM USER: lstuller
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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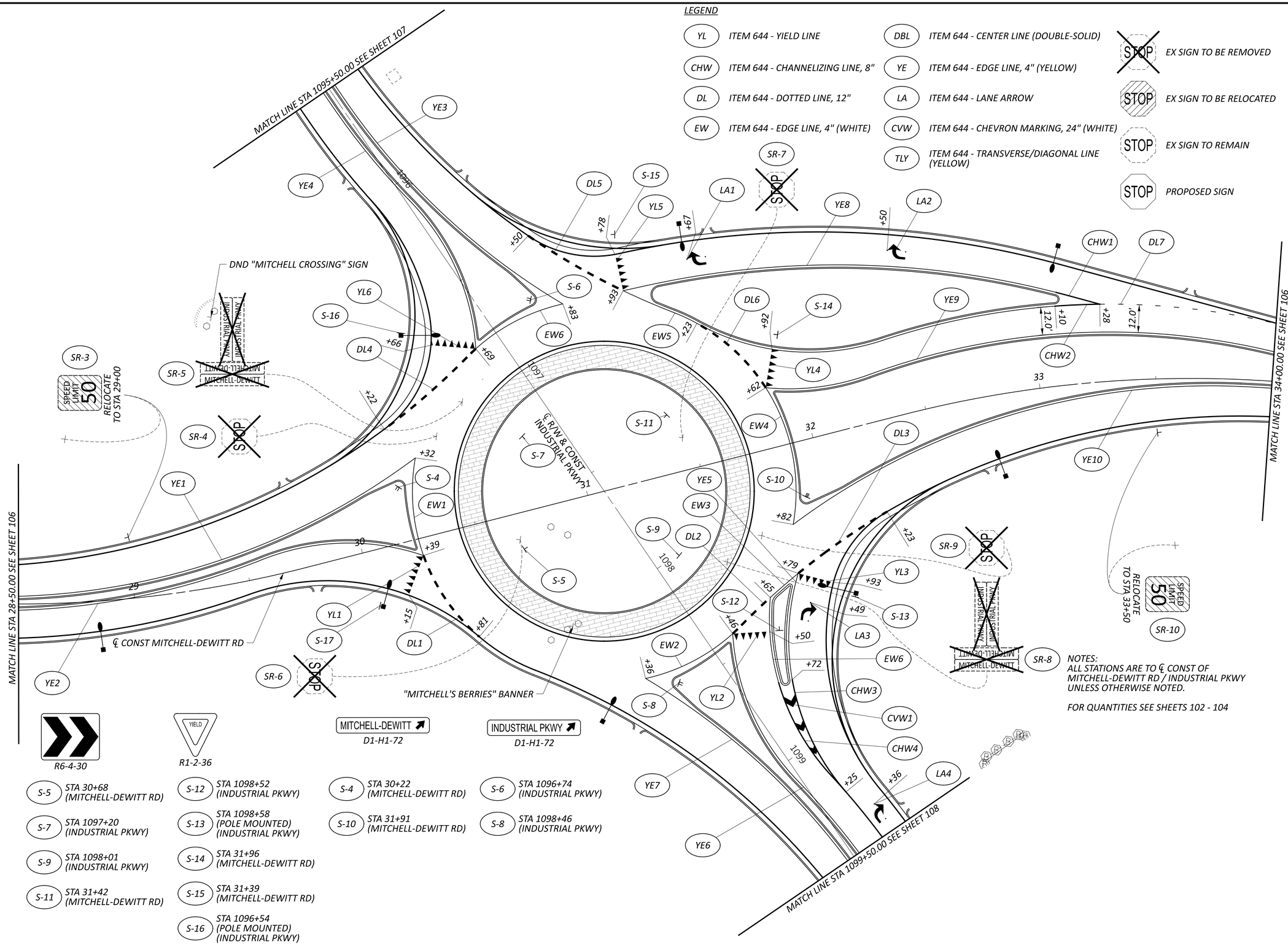

NOTES:
ALL STATIONS ARE TO ℄ CONST OF MITCHELL-DEWITT RD / INDUSTRIAL PKWY UNLESS OTHERWISE NOTED.

FOR QUANTITIES SEE SHEETS 102 - 104

TRAFFIC CONTROL PLAN - MITCHELL-DEWITT RD STA 28+50.00 TO STA 34+00.00

DESIGN AGENCY
MICHIGAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 105 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

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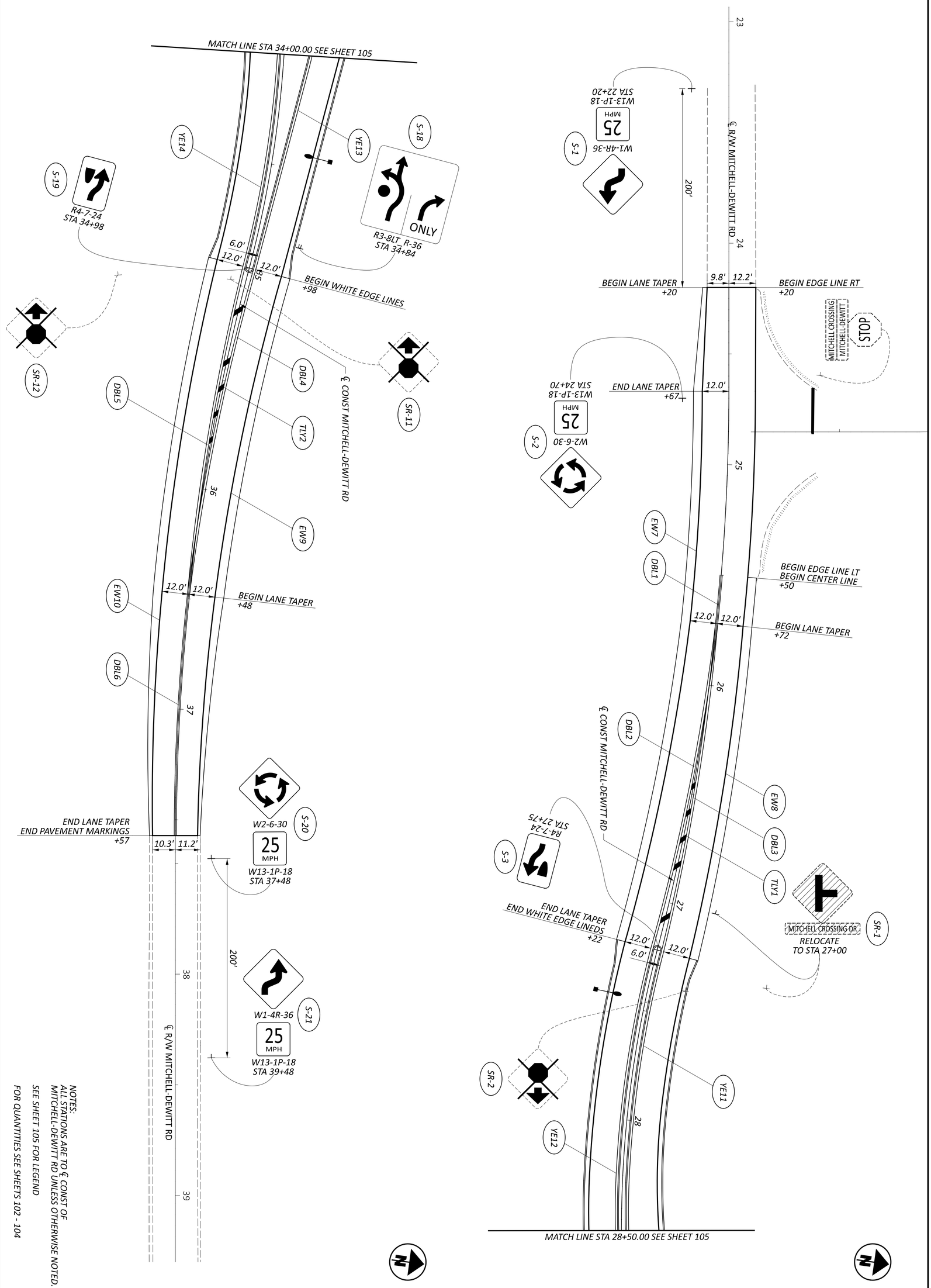

NOTES:
ALL STATIONS ARE TO ℄ CONST OF
MITCHELL-DEWITT RD UNLESS OTHERWISE NOTED.

SEE SHEET 105 FOR LEGEND

FOR QUANTITIES SEE SHEETS 102 - 104

DESIGNER LZS	REVIEWER KAM 06/02/23	AMERICAN STRUCTUREPOINT INC.	DESIGN AGENCY
PROJECT ID 2022.01156			
SHEET 106	TOTAL 131		

TRAFFIC CONTROL PLAN - MITCHELL-DEWITT RD
STA 23+00.00 TO STA 28+50.00 & STA 34+00.00 TO STA 39+50.00

HORIZONTAL SCALE IN FEET
0 10 20 40

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:18:58 PM USER: lstutler
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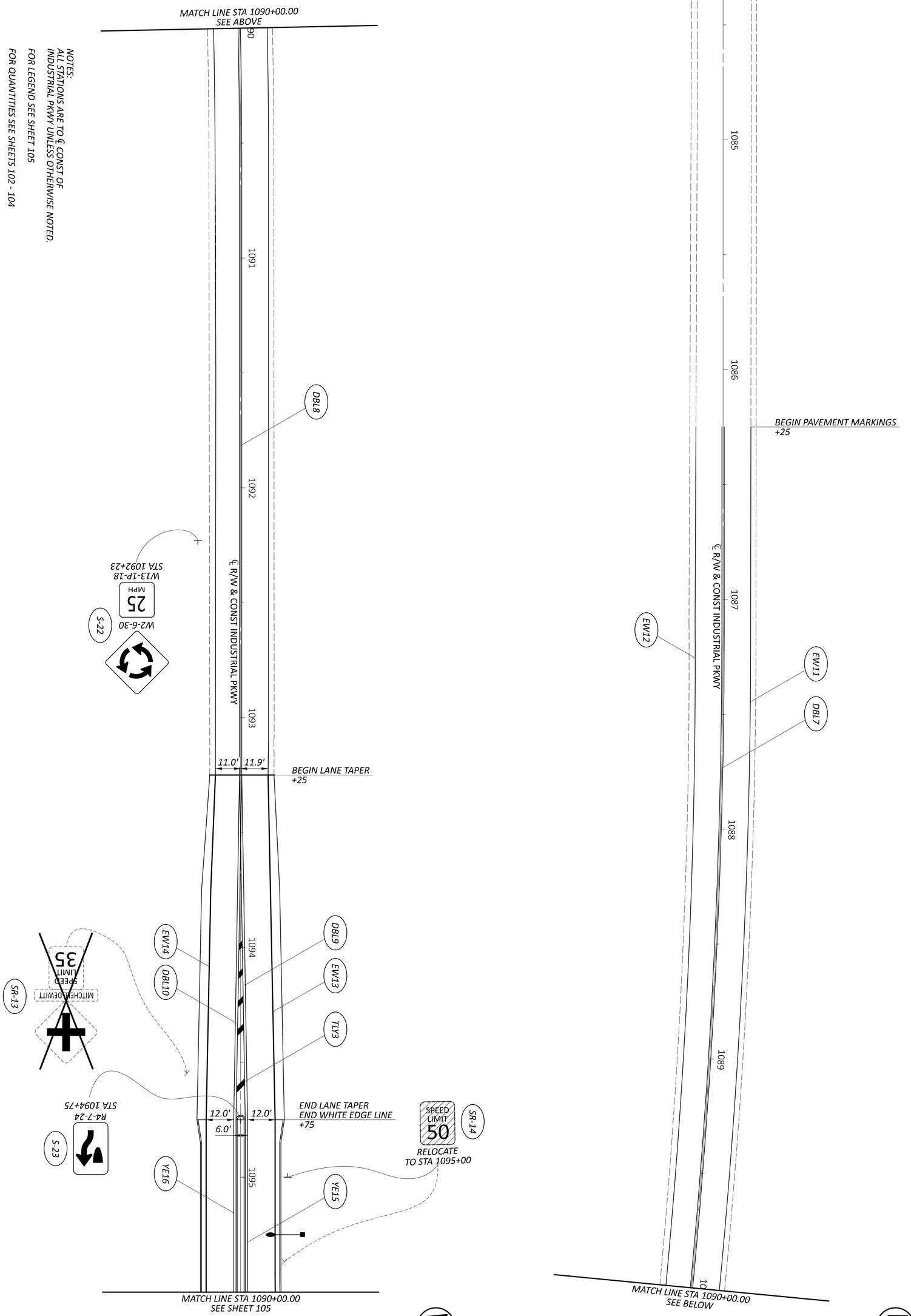
NOTES:
ALL STATIONS ARE TO ℄ CONST OF INDUSTRIAL PKWY UNLESS OTHERWISE NOTED.

FOR LEGEND SEE SHEET 105

FOR QUANTITIES SEE SHEETS 102 - 104



SHEET 107 / TOTAL 131	PROJECT ID 2022.01156	REVIEWER KAM 06/02/23	DESIGNER LZS
DESIGN AGENCY AMERICAN STRUCTUREPOINT INC.	TRAFFIC CONTROL PLAN - INDUSTRIAL PKWY STA. 1084+50.00 TO STA 1095+50.00	HORIZONTAL SCALE IN FEET 0 10 20 40	

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:01 PM USER: lstutler
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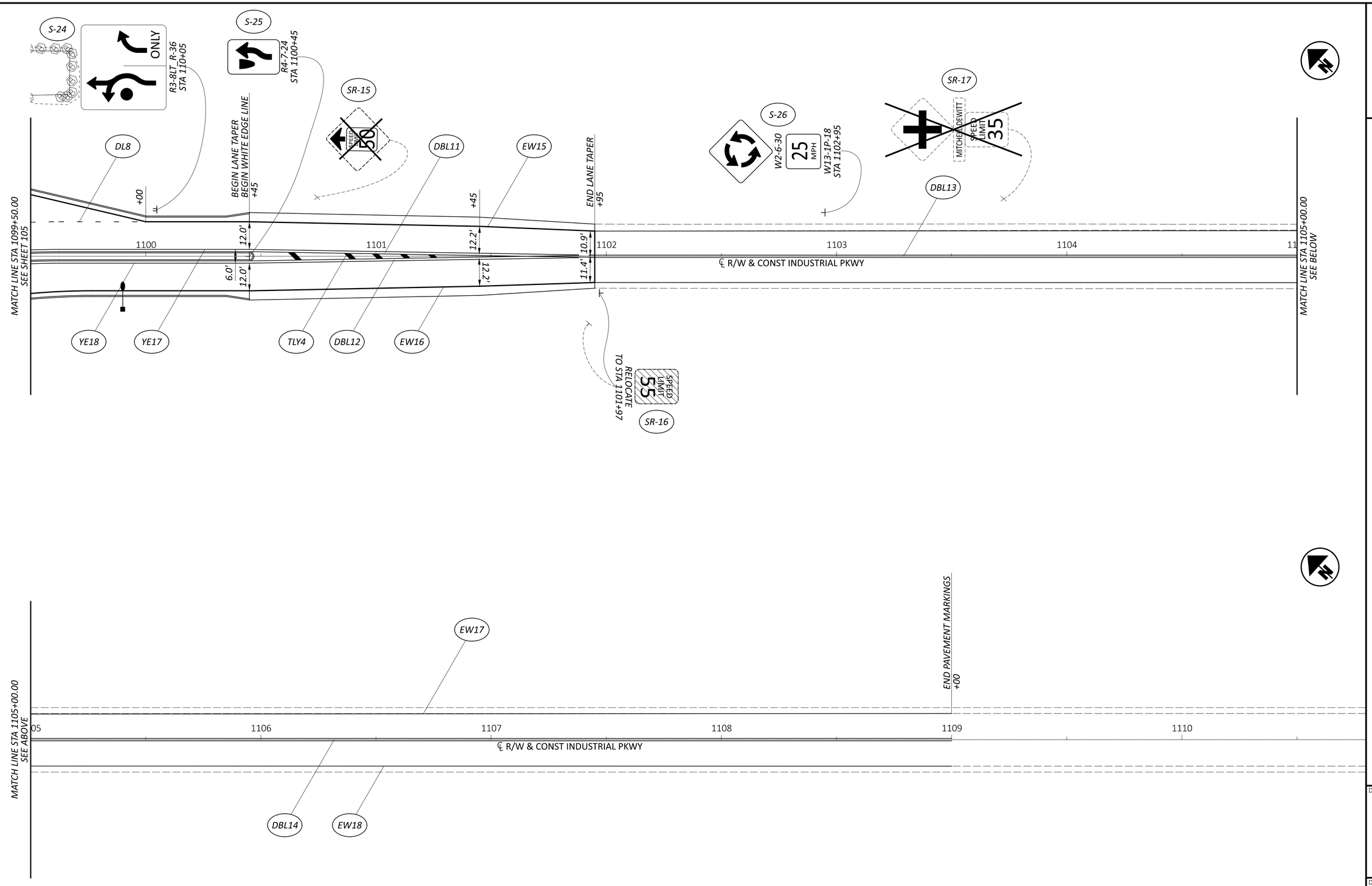

NOTES:
ALL STATIONS ARE TO ℄ CONST OF
INDUSTRIAL PKWY UNLESS OTHERWISE NOTED.

FOR LEGEND SEE SHEET 105

FOR QUANTITIES SEE SHEETS 102 - 104

TRAFFIC CONTROL PLAN - INDUSTRIAL PKWY
STA. 1099+50.00 TO STA 1111+50.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 108 TOTAL 131

625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY:	*UNION RURAL ELECTRIC COOPERATIVE, INC.*
ADDRESS:	*15461 US HWY 36*
	MARYSVILLE, OH 43040
PHONE:	*937-642-1826*
CONTACT NAME:	*HEDY NELSON*

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH C&MS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

625, LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN

THE CONTRACTOR SHALL INSTALL LED COBRA HEAD STYLE LUMINAIRES IN THE LOCATIONS SHOWN ON THE PLANS. THE LUMINAIRES SHALL HAVE A LUMEN OUTPUT OF APPROXIMATELY 11,000, A 3000K LIGHT COLOR, AND TYPE III DISTRIBUTION. THE FOLLOWING 3 LUMINAIRES WERE USED FOR THE PHOTOMETRICS ANALYSIS SHOWN IN THE PLANS:

AMERICAN ELECTRIC LIGHTING (AEL)
AUTOBAHN ATBS P60 PERFORMANCE PACKAGE
MODEL NO. ATBS-P60-XXXXX-R3-3K

COOPER LIGHTING SOLUTIONS
VERDEON ROADWAY AND AREA LUMINAIRE
MODEL NO. VERD-CA2-80-730-U-T3

GE LIGHTING SOLUTIONS
EVOLVE LED ROADWAY STREETLIGHT-ERLH
MODEL NO. ERLH_11C330

BECAUSE OF THE RAPID IMPROVEMENTS WITH LED LIGHTING, THE LUMNAIRE MODELS LISTED ABOVE MAY NO LONGER BE AVAILABLE AT THE TIME OF CONSTRUCTION. OTHER MODELS/MANUFACTURES ARE PERMITTED IF APPROVED BY THE ENGINEER, AS LONG AS THEY MEET THE LUMEN OUTPUT, DISTRIBUTION, AND COLOR REQUIREMENTS LISTED ABOVE.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.

625, LIGHT POLE (INSTALLATION ONLY)

LIGHTING POLES, BRACKET ARMS AND AT BASES WILL BE PROVIDED BY THE COUNTY. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION OF THE LIGHT POLES ONLY.

THE WORK FOR THIS ITEM, INCLUDING COMPENSATION FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK, SHALL BE PAID FOR UNDER THE ALTERNATE BID ITEM, ITEM 625 - LIGHT POLE (INSTALLATION ONLY).

LIGHTING EQUIPMENT PICKUP

THE LIGHT POLES, BRACKET ARMS, AND AT BASES REQUIRED FOR THE PROJECT HAVE BEEN ORDERED BY THE UNION COUNTY ENGINEER'S OFFICE AND ARE AVAILABLE FOR PICKUP AT THE COUNTY OPERATIONS CENTER. THE LIGHTING EQUIPMENT CAN REMAIN AT THE OPERATIONS CENTER UNTIL IT IS READY TO BE INSTALLED, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING A TIME TO BRING THEM TO THE PROJECT SITE.

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:04 PM USER: lstutler
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DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.
DESIGNER
LZS
REVIEWER
KAM 06/02/23
PROJECT ID
2022.01156

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

REFERENCE NO.	SHEET NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	625 CONNECTION, FUSED PULL APART	625 CONNECTION, UNFUSED PERMANENT	625 LIGHT POLE (INSTALLATION ONLY)	625 LIGHT POLE FOUNDATION, 24" X 8' DEEP	625 NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	625 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	625 NO. 10 AWG POLE AND BRACKET CABLE	625 CONDUIT, 3", 725.04	625 LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN	625 TRENCH	625 PULL BOX, 725.08, 24"	625 GROUND ROD	625 POWER SERVICE, AS PER PLAN	625 UNDERGROUND WARNING/MARKING TAPE	625 HIGH VOLTAGE TEST	625 ARC FLASH CALCULATIONS AND LABEL
						EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	FT	LS	EACH
1	112	MITCHELL-DEWITT RD	26+46.57	26+50.18	LT		3				19				9		1	1	9	LS	1
2	112	MITCHELL-DEWITT RD	26+50.18	27+40.00	LT	6					101				91	1			91		
3	112	MITCHELL-DEWITT RD	27+40.00	1096+55.00	LT		3	1	1		325	90		1	315		1		315		
4	112	MITCHELL-DEWITT RD	27+40.00	27+40.00	LT/RT	3				204			58		58				58		
5	112	MITCHELL-DEWITT RD	27+40.00	27+45.00	RT		3	1	1		15	76		1	5	1	1		5		
6	112	MITCHELL-DEWITT RD	27+45.00	28+85.00	RT		3	1	1		157	76		1	147		1		147		
7	112	MITCHELL-DEWITT RD	28+85.00	30+03.00	RT		3	1	1		136	76		1	126		1		126		
8	112	MITCHELL-DEWITT RD	30+03.00	1098+41.00	RT		3	1	1		119	76		1	109		1		109		
9	112	INDUSTRIAL PKWY	1098+41.00	1099+05.00	RT	6					80				70	1			70		
10	112	INDUSTRIAL PKWY	1099+05.00	1099+90.00	RT		3	1	1		100	76		1	90		1		90		
11	112	INDUSTRIAL PKWY	1099+05.00	1099+05.00	LT/RT	3				237			69		69	1			69		
12	112	INDUSTRIAL PKWY	1099+05.00	1098+57.00	LT		3	1	1		71			1	61		1		61		
13	112	MITCHELL-DEWITT RD	1098+57.00	32+79.00	RT		3	1	1		96	76		1	86		1		86		
14	112	INDUSTRIAL PKWY	1096+55.00	1096+25.00	RT	3					43				33	1			33		
15	112	INDUSTRIAL PKWY	1096+25.00	1096+25.00	LT/RT	6				201			57		57	1			57		
16	112	INDUSTRIAL PKWY	1095+25.00	1096+25.00	LT		3	1	1		116			1	106		1		106		
17	112	INDUSTRIAL PKWY	1096+25.00	31+67.00	LT		3	1	1		97	76		1	87		1		87		
18	112	MITCHELL-DEWITT RD	31+67.00	33+14.00	LT		3	1	1		174	76		1	164		1		164		
19	112	MITCHELL-DEWITT RD	33+14.00	34+45.00	LT		3	1	1		157	76		1	147		1		147		
TOTALS CARRIED TO GENERAL SUMMARY						27	39	12	12	642	1806	774	184	12	1830	6	13	1	1830	LS	1

LIGHTING SUBSUMMARY

DESIGN AGENCY
MAPLEWOOD STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 110 TOTAL 131

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:05 PM USER: lstutler
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INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:11 PM USER: lstutler
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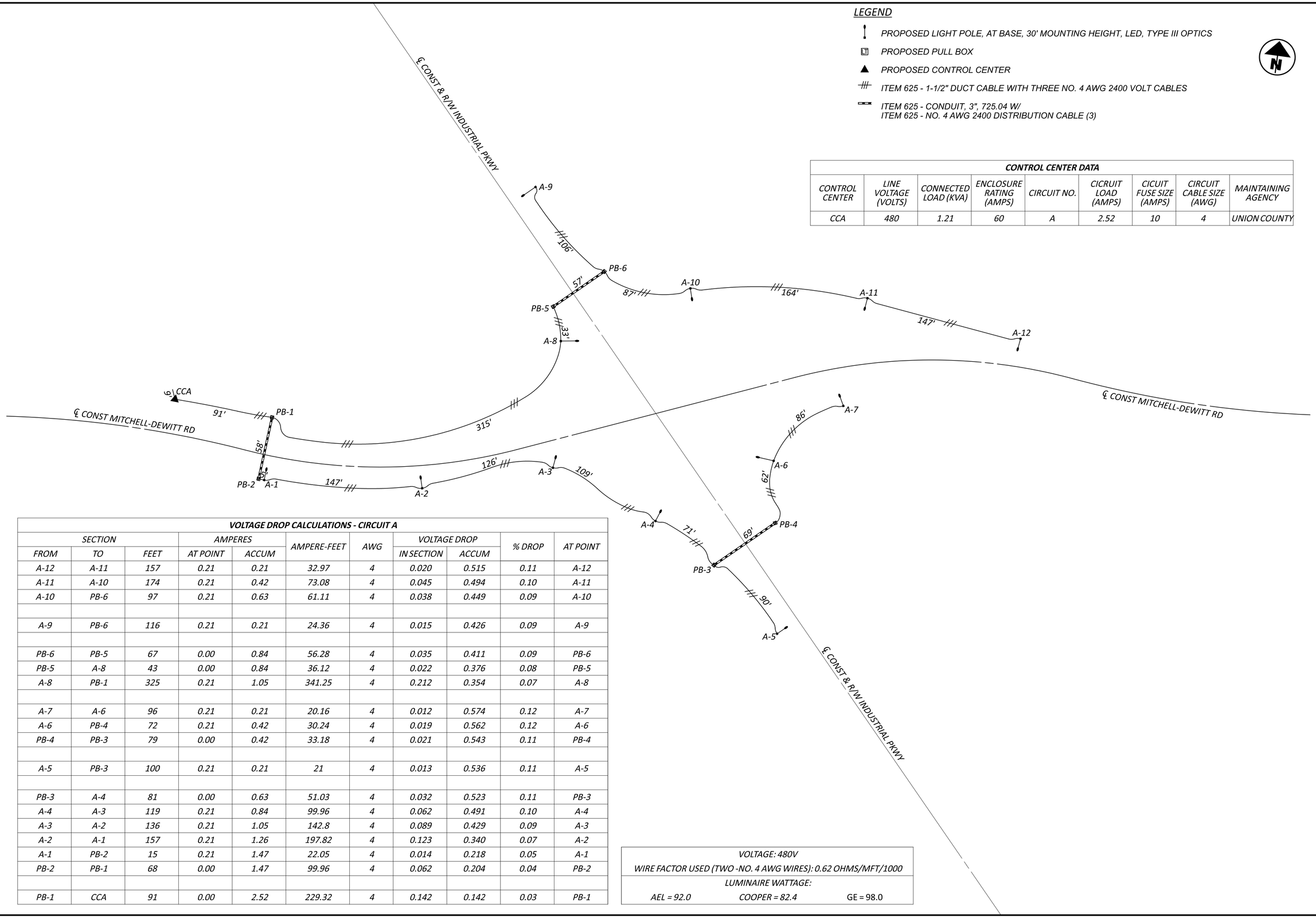
LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/ ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET 0 20 40 80



CONTROL CENTER DATA								
CONTROL CENTER	LINE VOLTAGE (VOLTS)	CONNECTED LOAD (KVA)	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CICRUIT LOAD (AMPS)	CICUIT FUSE SIZE (AMPS)	CIRCUIT CABLE SIZE (AWG)	MAINTAINING AGENCY
CCA	480	1.21	60	A	2.52	10	4	UNION COUNTY

VOLTAGE DROP CALCULATIONS - CIRCUIT A										
SECTION			AMPERES		AMPERE-FEET	AWG	VOLTAGE DROP		% DROP	AT POINT
FROM	TO	FEET	AT POINT	ACCUM			IN SECTION	ACCUM		
A-12	A-11	157	0.21	0.21	32.97	4	0.020	0.515	0.11	A-12
A-11	A-10	174	0.21	0.42	73.08	4	0.045	0.494	0.10	A-11
A-10	PB-6	97	0.21	0.63	61.11	4	0.038	0.449	0.09	A-10
A-9	PB-6	116	0.21	0.21	24.36	4	0.015	0.426	0.09	A-9
PB-6	PB-5	67	0.00	0.84	56.28	4	0.035	0.411	0.09	PB-6
PB-5	A-8	43	0.00	0.84	36.12	4	0.022	0.376	0.08	PB-5
A-8	PB-1	325	0.21	1.05	341.25	4	0.212	0.354	0.07	A-8
A-7	A-6	96	0.21	0.21	20.16	4	0.012	0.574	0.12	A-7
A-6	PB-4	72	0.21	0.42	30.24	4	0.019	0.562	0.12	A-6
PB-4	PB-3	79	0.00	0.42	33.18	4	0.021	0.543	0.11	PB-4
A-5	PB-3	100	0.21	0.21	21	4	0.013	0.536	0.11	A-5
PB-3	A-4	81	0.00	0.63	51.03	4	0.032	0.523	0.11	PB-3
A-4	A-3	119	0.21	0.84	99.96	4	0.062	0.491	0.10	A-4
A-3	A-2	136	0.21	1.05	142.8	4	0.089	0.429	0.09	A-3
A-2	A-1	157	0.21	1.26	197.82	4	0.123	0.340	0.07	A-2
A-1	PB-2	15	0.21	1.47	22.05	4	0.014	0.218	0.05	A-1
PB-2	PB-1	68	0.00	1.47	99.96	4	0.062	0.204	0.04	PB-2
PB-1	CCA	91	0.00	2.52	229.32	4	0.142	0.142	0.03	PB-1

VOLTAGE: 480V

WIRE FACTOR USED (TWO -NO. 4 AWG WIRES): 0.62 OHMS/MFT/1000

LUMINAIRE WATTAGE:

AEL = 92.0 COOPER = 82.4 GE = 98.0

CIRCUIT DIAGRAM

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER LZS

REVIEWER KAM 06/02/23

PROJECT ID 2022.01156

SHEET 111 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:18 PM USER: lstutler
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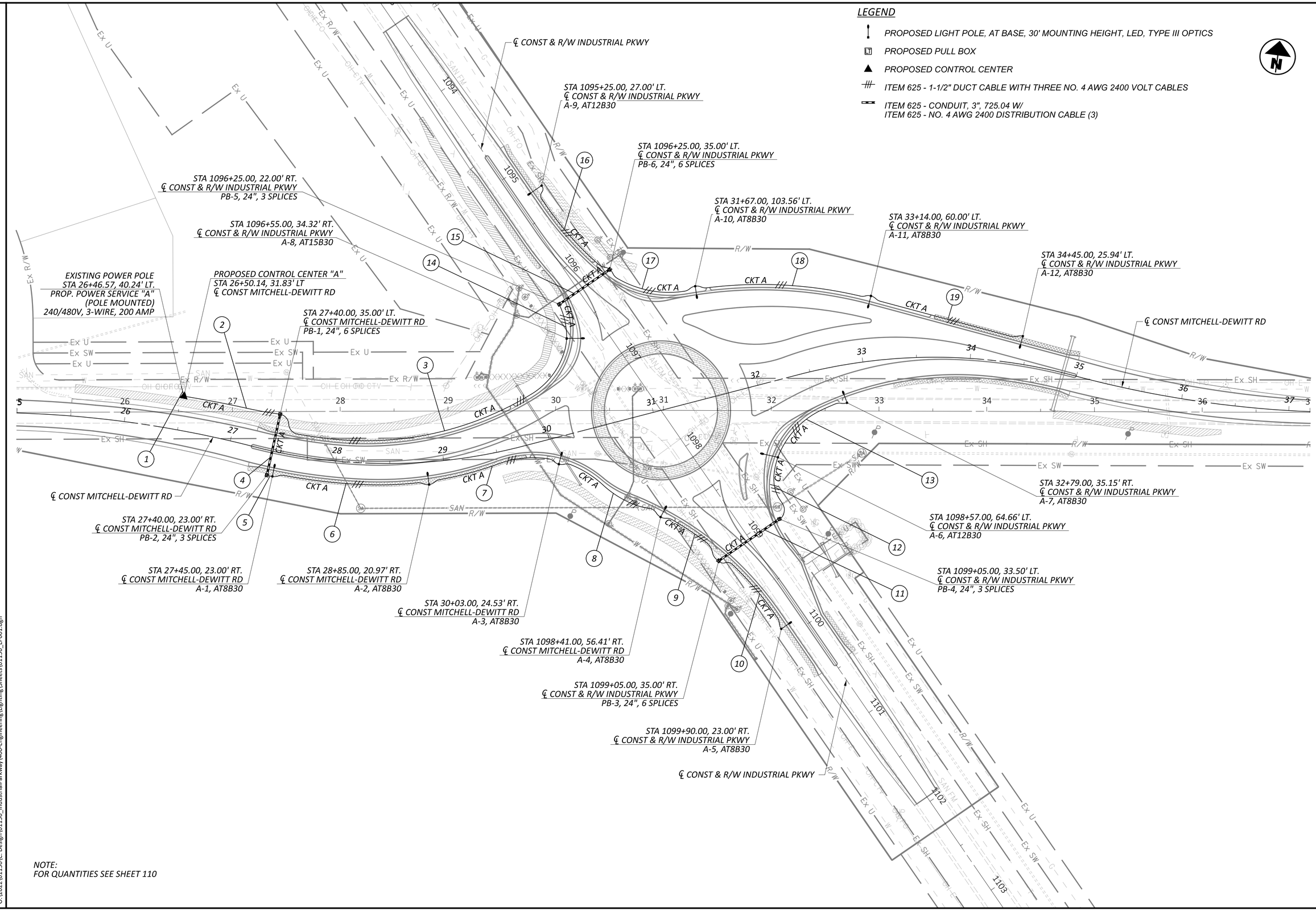

NOTE:
FOR QUANTITIES SEE SHEET 110

LIGHTING PLAN

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 112 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:23 PM USER: lstutler
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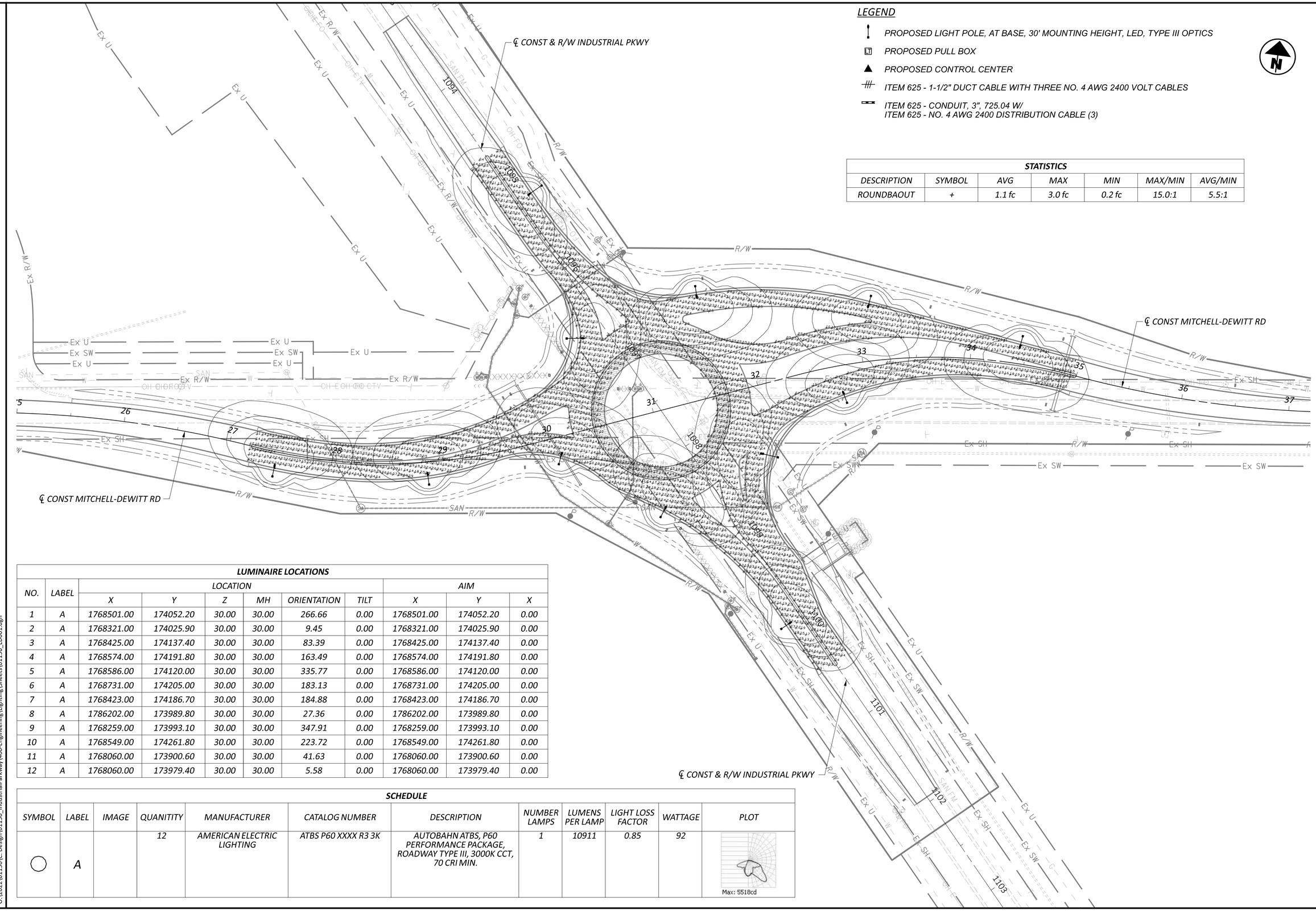
LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/
  ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET
0 20 40 80



STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
ROUNDBAOUT	+	1.1 fc	3.0 fc	0.2 fc	15.0:1	5.5:1

LUMINAIRE LOCATIONS

NO.	LABEL	LOCATION						AIM		
		X	Y	Z	MH	ORIENTATION	TILT	X	Y	X
1	A	1768501.00	174052.20	30.00	30.00	266.66	0.00	1768501.00	174052.20	0.00
2	A	1768321.00	174025.90	30.00	30.00	9.45	0.00	1768321.00	174025.90	0.00
3	A	1768425.00	174137.40	30.00	30.00	83.39	0.00	1768425.00	174137.40	0.00
4	A	1768574.00	174191.80	30.00	30.00	163.49	0.00	1768574.00	174191.80	0.00
5	A	1768586.00	174120.00	30.00	30.00	335.77	0.00	1768586.00	174120.00	0.00
6	A	1768731.00	174205.00	30.00	30.00	183.13	0.00	1768731.00	174205.00	0.00
7	A	1768423.00	174186.70	30.00	30.00	184.88	0.00	1768423.00	174186.70	0.00
8	A	1786202.00	173989.80	30.00	30.00	27.36	0.00	1786202.00	173989.80	0.00
9	A	1768259.00	173993.10	30.00	30.00	347.91	0.00	1768259.00	173993.10	0.00
10	A	1768549.00	174261.80	30.00	30.00	223.72	0.00	1768549.00	174261.80	0.00
11	A	1768060.00	173900.60	30.00	30.00	41.63	0.00	1768060.00	173900.60	0.00
12	A	1768060.00	173979.40	30.00	30.00	5.58	0.00	1768060.00	173979.40	0.00

SCHEDULE

SYMBOL	LABEL	IMAGE	QUANITITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	NUMBER LAMPS	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE	PLOT
○	A		12	AMERICAN ELECTRIC LIGHTING	ATBS P60 XXXX R3 3K	AUTOBAHN ATBS, P60 PERFORMANCE PACKAGE, ROADWAY TYPE III, 3000K CCT, 70 CRI MIN.	1	10911	0.85	92	Max: 5518cd

PHOTOMETRICS DETAILS - AEL

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 113 TOTAL 131

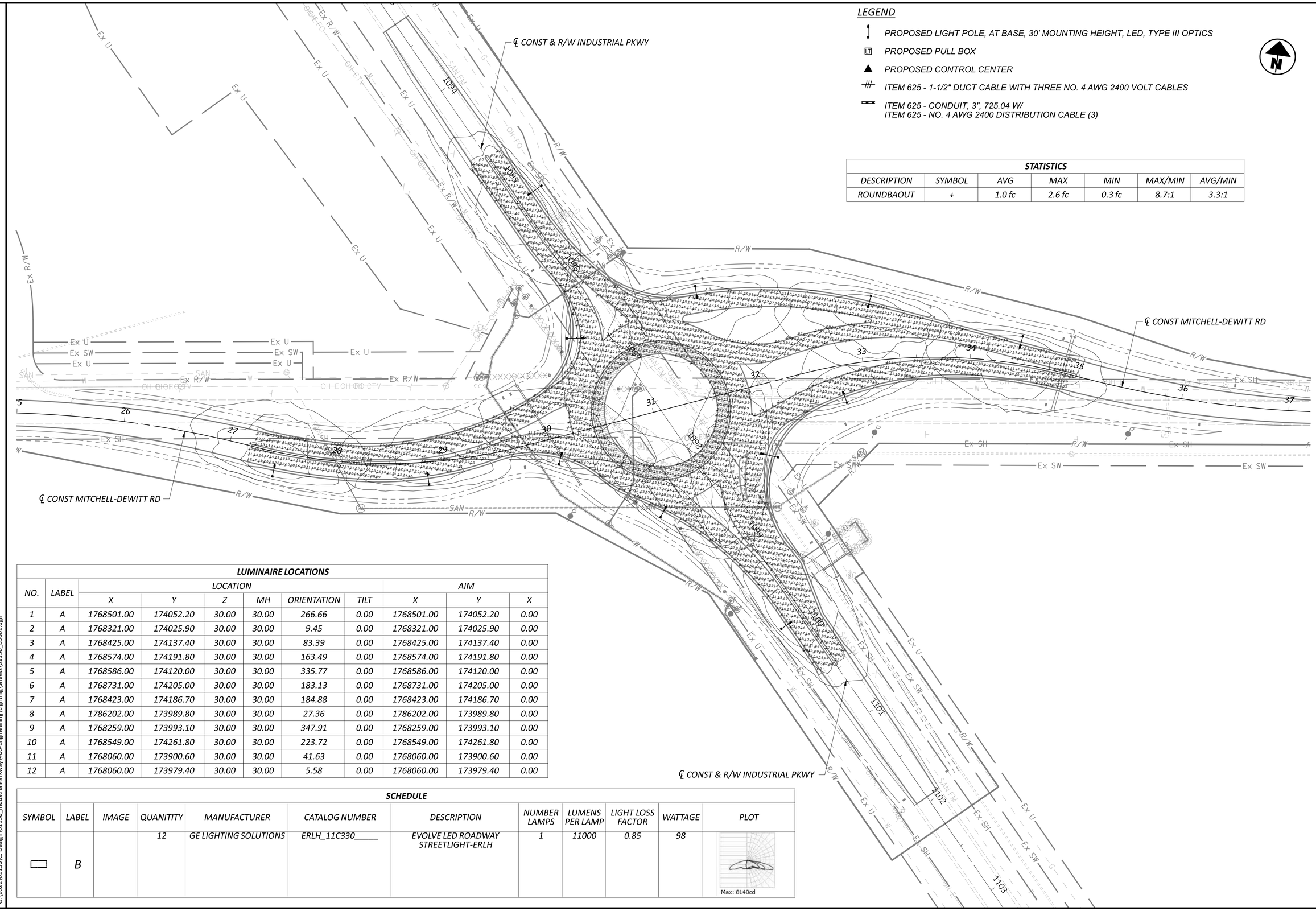
INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:31 PM USER: lstutler
O:\2022\01156\C. Design\01156_IndustrialParkway\400-Engineering\Lighting\Sheets\01156_LD002.dgn

LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/
  ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET
0 20 40 80



STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
ROUNDBAOUT	+	1.0 fc	2.6 fc	0.3 fc	8.7:1	3.3:1

LUMINAIRE LOCATIONS

NO.	LABEL	LOCATION						AIM		
		X	Y	Z	MH	ORIENTATION	TILT	X	Y	X
1	A	1768501.00	174052.20	30.00	30.00	266.66	0.00	1768501.00	174052.20	0.00
2	A	1768321.00	174025.90	30.00	30.00	9.45	0.00	1768321.00	174025.90	0.00
3	A	1768425.00	174137.40	30.00	30.00	83.39	0.00	1768425.00	174137.40	0.00
4	A	1768574.00	174191.80	30.00	30.00	163.49	0.00	1768574.00	174191.80	0.00
5	A	1768586.00	174120.00	30.00	30.00	335.77	0.00	1768586.00	174120.00	0.00
6	A	1768731.00	174205.00	30.00	30.00	183.13	0.00	1768731.00	174205.00	0.00
7	A	1768423.00	174186.70	30.00	30.00	184.88	0.00	1768423.00	174186.70	0.00
8	A	1786202.00	173989.80	30.00	30.00	27.36	0.00	1786202.00	173989.80	0.00
9	A	1768259.00	173993.10	30.00	30.00	347.91	0.00	1768259.00	173993.10	0.00
10	A	1768549.00	174261.80	30.00	30.00	223.72	0.00	1768549.00	174261.80	0.00
11	A	1768060.00	173900.60	30.00	30.00	41.63	0.00	1768060.00	173900.60	0.00
12	A	1768060.00	173979.40	30.00	30.00	5.58	0.00	1768060.00	173979.40	0.00

SCHEDULE

SYMBOL	LABEL	IMAGE	QUANITITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	NUMBER LAMPS	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE	PLOT
	B		12	GE LIGHTING SOLUTIONS	ERLH_11C330_____	EVOLVE LED ROADWAY STREETLIGHT-ERLH	1	11000	0.85	98	Max: 8140cd

PHOTOMETRICS DETAILS - GE

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
LZS

REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 114 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENT

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:39 PM USER: lstutler
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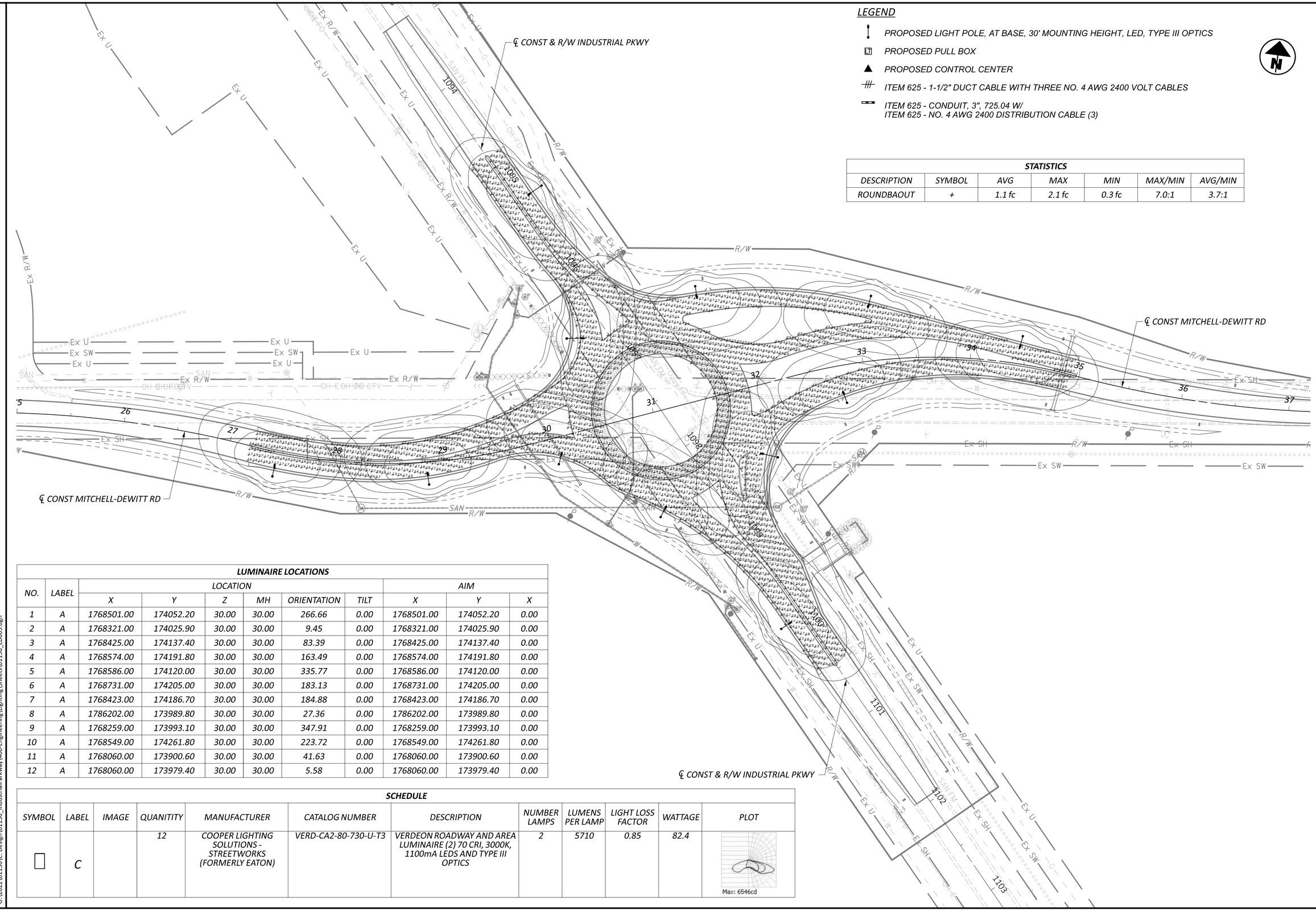
LEGEND

- PROPOSED LIGHT POLE, AT BASE, 30' MOUNTING HEIGHT, LED, TYPE III OPTICS
- PROPOSED PULL BOX
- PROPOSED CONTROL CENTER
- ITEM 625 - 1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES
- ITEM 625 - CONDUIT, 3", 725.04 W/
  ITEM 625 - NO. 4 AWG 2400 DISTRIBUTION CABLE (3)

HORIZONTAL SCALE IN FEET
0 20 40 80



STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
ROUNDBAOUT	+	1.1 fc	2.1 fc	0.3 fc	7.0:1	3.7:1

LUMINAIRE LOCATIONS

NO.	LABEL	LOCATION						AIM		
		X	Y	Z	MH	ORIENTATION	TILT	X	Y	X
1	A	1768501.00	174052.20	30.00	30.00	266.66	0.00	1768501.00	174052.20	0.00
2	A	1768321.00	174025.90	30.00	30.00	9.45	0.00	1768321.00	174025.90	0.00
3	A	1768425.00	174137.40	30.00	30.00	83.39	0.00	1768425.00	174137.40	0.00
4	A	1768574.00	174191.80	30.00	30.00	163.49	0.00	1768574.00	174191.80	0.00
5	A	1768586.00	174120.00	30.00	30.00	335.77	0.00	1768586.00	174120.00	0.00
6	A	1768731.00	174205.00	30.00	30.00	183.13	0.00	1768731.00	174205.00	0.00
7	A	1768423.00	174186.70	30.00	30.00	184.88	0.00	1768423.00	174186.70	0.00
8	A	1786202.00	173989.80	30.00	30.00	27.36	0.00	1786202.00	173989.80	0.00
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10	A	1768549.00	174261.80	30.00	30.00	223.72	0.00	1768549.00	174261.80	0.00
11	A	1768060.00	173900.60	30.00	30.00	41.63	0.00	1768060.00	173900.60	0.00
12	A	1768060.00	173979.40	30.00	30.00	5.58	0.00	1768060.00	173979.40	0.00

SCHEDULE

SYMBOL	LABEL	IMAGE	QUANITITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	NUMBER LAMPS	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE	PLOT
	C		12	COOPER LIGHTING SOLUTIONS - STREETWORKS (FORMERLY EATON)	VERD-CA2-80-730-U-T3	VERDEON ROADWAY AND AREA LUMINAIRE (2) 70 CRI, 3000K, 1100mA LEDS AND TYPE III OPTICS	2	5710	0.85	82.4	Max: 6546cd

PHOTOMETRICS DETAILS - COOPER

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
LZS

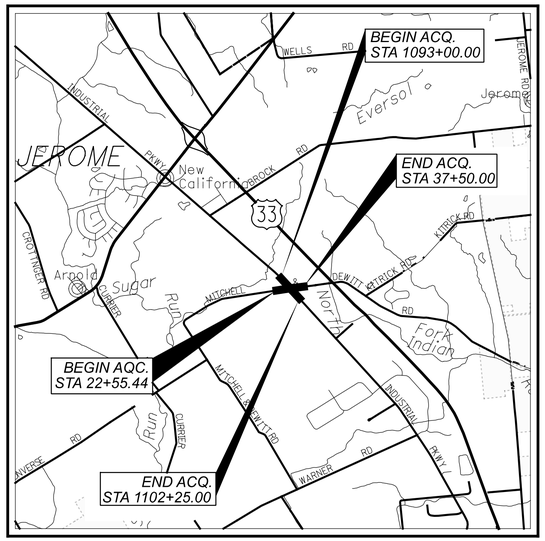
REVIEWER
KAM 06/02/23

PROJECT ID
2022.01156

SHEET 115 TOTAL 131

RIGHT OF WAY LEGEND SHEET
INDUSTRIAL PARKWAY & MITCHELL DEWITT ROAD INTERSECTION IMPROVEMENTS

STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME
VIRGINIA MILITARY SURVEY NO. 5134



LOCATION MAP

LATITUDE: N40°08'32" LONGITUDE: W83°12'56"

N

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF IMPROVING THE INTERSECTION OF INDUSTRIAL PKWY AND MITCHELL-DEWITT RD FROM A STOP CONTROLLED INTERSECTION TO A ROUNDABOUT INTERSECTION WITH CURB AND GUTTER, ROADSIDE DITCHES, CULVERT REPLACEMENTS AND NECESSARY UTILITY RELOCATION.

PROJECT CONTROL

STATE PLANE GRID OHIO NORTH
PROJECT ADJUSTMENT FACTOR 0.9999719361 (SCALED ABOUT CP 1500)

TYPES OF TITLE LEGEND:

WD = WARRANTY DEED

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2-3
PROPERTY MAP	4
SUMMARY SHEET	5
R/W TOPO SHEETS	6-14 (EVEN)
R/W BOUNDARY SHEETS	7-15 (ODD)

PLANS PREPARED BY:

FIRM NAME : AMERICAN STRUCTUREPOINT, INC.
R/W DESIGNER: M.W. MAYES/J.B. YOUMANS
R/W REVIEWER: MICHAEL J. WARD
FIELD REVIEWER: A. WESTCOTT / R. MOSELEY
PRELIMINARY FIELD REVIEW DATE: 1/9/2023
TRACINGS FIELD REVIEW DATE: 3/7/2023
OWNERSHIP UPDATED BY: J.B. YOUMANS
DATE COMPLETED: 3/13/2023
PLAN COMPLETION DATE: 5/17/2023

UTILITES

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

TELEPHONE & CABLE
AT&T (FORMERLY SBC)
ATT: DONALD G MARSHALL JR
111 N 4TH ST
COLUMBUS, OH 43215
614-216-2396
G01553@ATT.COM

CHARTER COMMNUNICATIONS/SPECTRUM
(AKA TIME WARNER COMMUNICATIONS)
3760 INTERCHANGE ROAD
COLUMBUS, OH 43204
DL-MOH-CONSTRUCTION-FRELO-TEAM@CHARTER.COM

ZAYO FIBER SOLUTIONS
ATTN: ERIC L ALEXANDER
251 NEILSON STREET
COLUMBUS, OH 43215
614-989-9655
ERIC.ALEXANDER@ZAYO.COM

ELECTRIC
AMERICAN ELECTRIC POWER
ATTN: PAUL PAXTON
777 HOPEWELL DRIVE
HEATH, OH 43056
740-348-5322
PTPAXTON@AEP.COM

UNION RURAL ELECTRIC COOPERATIVE, INC.
ATTN: HEDY NELSON
15461 US HWY 36
MARYSVILLE, OH 43040
937-642-1826

SEWER
CITY OF MARYSVILLE
ATTN: RICHARD FELTON
12901 BEECHER-GAMBLE ROAD
MARYSVILLE, OHIO 43040
937-642-1036
RFELTON@MARYSVILLOHIO.ORG

WATER
CITY OF MARYSVILLE
ATTN: SCOTT SHEPPEARD
455 N. MAPLE STREET
MARYSVILLE, OHIO 43040
937-645-7350
SSHEPPEARD@MARYSVILLEOHIO.ORG

GAS
COLUMBIA GAS OF OHIO
ATTN: ROB CALDWELL
3550 JOHNNY APPLESEED COURT
COLUMBUS, OH 43231
614-818-2104
RCALDWELL@NISOURCE.COM

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)

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

CONVENTIONAL SYMBOLS

Center Line
Right of Way (Ex)
Right of Way (Pr)
Standard Highway Ease.(Ex)
Temporary Right of Way
Utility Ease. (Ex)
Sewer Ease. (Ex)
Fence Line (Ex)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)

Ownership Hook Symbol, Example
Property Line Symbol, Example
Break Line Symbol Example
Tree (Pr) Tree (Ex) Shrub (Ex)
Tree (Remove), Shrub (Remove)
Evergreen (Ex), Stump
Evergreen (Remove), Stump (Remove)
Wetland (Pr), Grass (Pr), Aerial Target
Post (Ex), Mailbox (Ex), Mailbox (Pr)
Light (Ex), Telephone Marker (Ex)
Fire Hydrant (Ex), Water Meter (Ex)
Water Valve (Ex), Utility Valve Unknown (Ex.)
Telephone Pole (Ex), Power Pole (Ex)
Light Pole (Ex)

I, Michael J. Ward, P. S. have conducted a survey of the existing conditions for the Union County Board of Commissioners on September 29, 2022. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinates System North Zone on NAD 83 (2011 Adjustment) datum. The Project Coordinates (US Survey Feet) are relative to State Plane Grid Coordinates (US Survey Feet) by a Project Adjustment Factor of 0.9999719361. As a part of this project I have reestablished the locations of the existing property lines and the existing centerline of Right of Way for property takes contained herein. As a part of this project I have established the proposed property lines, calculated the Gross Take, present roadway occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein. As a part of this work I have set right of way monuments at the property corners, property line intersection, points along the right of way and/or angle points on the right of way, Section Corners and other points as shown herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Michael J. Ward, Professional Land Surveyor 8808 Date:

SURVEYORS SEAL

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

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.
DESIGNER: JBY/MWM
REVIEWER: MJW 06/02/23
PROJECT ID: 2022.01156
SUBSET 1 TOTAL 15
SHEET 117 TOTAL 131

RIGHT-OF-WAY LEGEND SHEET

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RL001 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:43 PM USER: lstutler
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INDUSTRIAL PARKWAY & MITCHELL DEWITT ROAD INTERSECTION IMPROVEMENTS

STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134

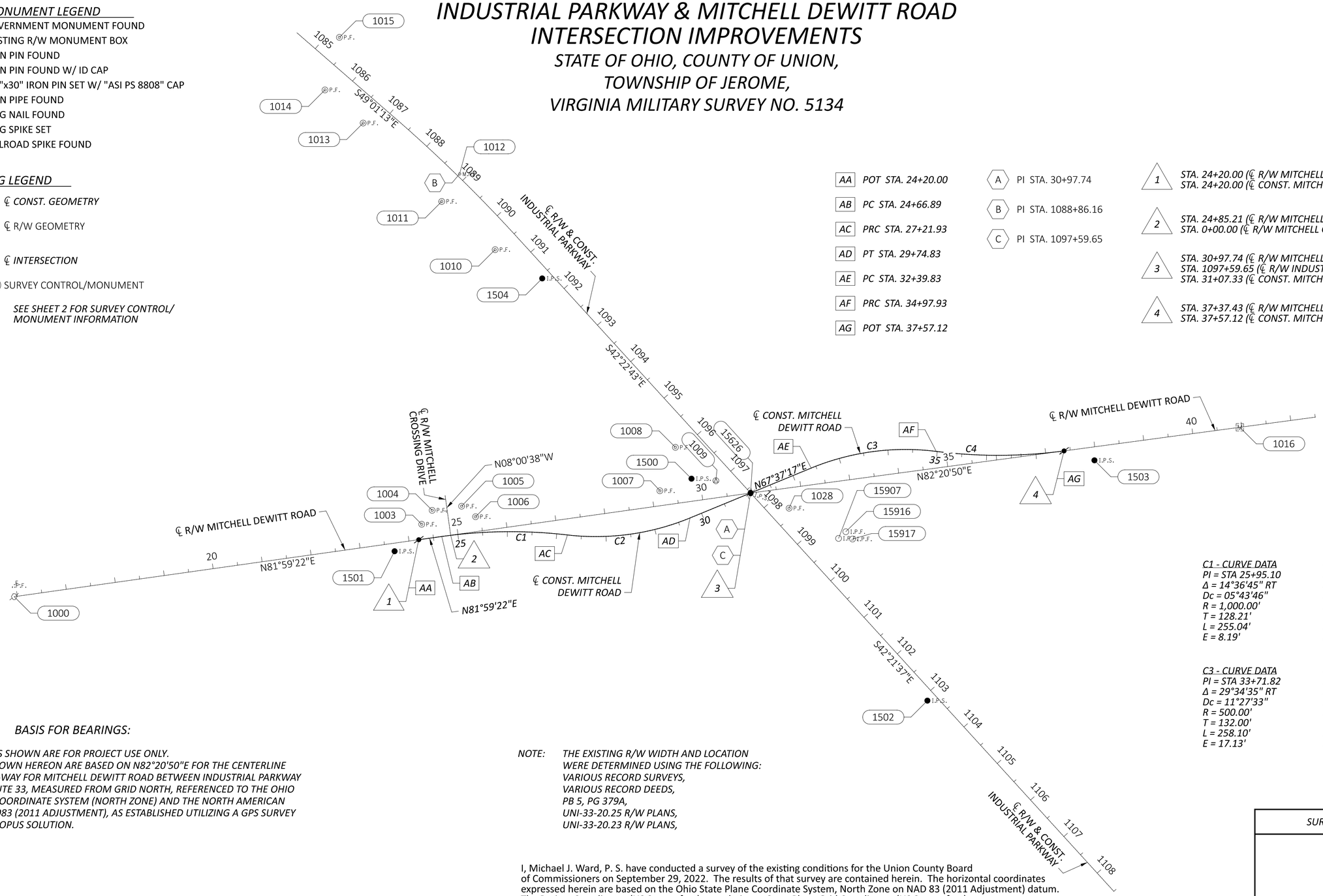
MONUMENT LEGEND

- GOVERNMENT MONUMENT FOUND
- EXISTING R/W MONUMENT BOX
- I.R.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. 5/8"x30" IRON PIN SET W/ "ASI PS 8808" CAP
- P.F. IRON PIPE FOUND
- M.N.F. MAG NAIL FOUND
- MAG SPIKE SET
- RAILROAD SPIKE FOUND

TAG LEGEND

- XX ℄ CONST. GEOMETRY
- X ℄ R/W GEOMETRY
- X ℄ INTERSECTION
- XXXX SURVEY CONTROL/MONUMENT

NOTE: SEE SHEET 2 FOR SURVEY CONTROL/ MONUMENT INFORMATION



AA	POT STA. 24+20.00
AB	PC STA. 24+66.89
AC	PRC STA. 27+21.93
AD	PT STA. 29+74.83
AE	PC STA. 32+39.83
AF	PRC STA. 34+97.93
AG	POT STA. 37+57.12

A	PI STA. 30+97.74
B	PI STA. 1088+86.16
C	PI STA. 1097+59.65

1	STA. 24+20.00 (℄ R/W MITCHELL DEWITT RD) = STA. 24+20.00 (℄ CONST. MITCHELL DEWITT RD)
2	STA. 24+85.21 (℄ R/W MITCHELL DEWITT RD) = STA. 0+00.00 (℄ R/W MITCHELL CROSSING DR)
3	STA. 30+97.74 (℄ R/W MITCHELL DEWITT RD) = STA. 1097+59.65 (℄ R/W INDUSTRIAL PARKWAY) = STA. 31+07.33 (℄ CONST. MITCHELL DEWITT RD)
4	STA. 37+37.43 (℄ R/W MITCHELL DEWITT RD) = STA. 37+57.12 (℄ CONST. MITCHELL DEWITT RD)

HORIZONTAL SCALE IN FEET 0 50 100 200

C1 - CURVE DATA
PI = STA 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000.00'
T = 128.21'
L = 255.04'
E = 8.19'

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

C4 - CURVE DATA
PI = STA 36+28.25
Δ = 14°51'02" LT
Dc = 05°43'46"
R = 1,000.00'
T = 130.33'
L = 259.19'
E = 8.46'

BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.
BEARINGS SHOWN HEREON ARE BASED ON N82°20'50"E FOR THE CENTERLINE OF RIGHT-OF-WAY FOR MITCHELL DEWITT ROAD BETWEEN INDUSTRIAL PARKWAY AND U.S. ROUTE 33, MEASURED FROM GRID NORTH, REFERENCED TO THE OHIO STATE PLAN COORDINATE SYSTEM (NORTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION.

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING THE FOLLOWING:
VARIOUS RECORD SURVEYS,
VARIOUS RECORD DEEDS,
PB 5, PG 379A,
UNI-33-20.25 R/W PLANS,
UNI-33-20.23 R/W PLANS,

I, Michael J. Ward, P. S. have conducted a survey of the existing conditions for the Union County Board of Commissioners on September 29, 2022. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, North Zone on NAD 83 (2011 Adjustment) datum. The Project Coordinates (US Survey feet) are relative to State Plane Grid Coordinates (US Survey feet) by a Project Adjustment Factor multiplier of 0.9999719361. As a part of this project I have reestablished the locations of the existing property lines and centerline of existing Right of Way for property takes contained herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

Michael J. Ward, Professional Land Surveyor No. 8808, Date:

RECEIVED _____, 20 ____
RECORDED _____, 20 ____
BOOK _____ PAGE _____
COUNTY RECORDER

SURVEYORS SEAL

RIGHT-OF-WAY CENTERLINE PLAT - SHEET 1 OF 2

DESIGN AGENCY: STRUCTUREPOINT INC.
DESIGNER: JBY/MWM
REVIEWER: MJW 06/02/23
PROJECT ID: 2022.01156
SUBSET 2 TOTAL 15
SHEET 118 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RC001 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:46 PM USER: lstutler
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INDUSTRIAL PARKWAY & MITCHELL DEWITT ROAD
INTERSECTION IMPROVEMENTS

EXISTING ALIGNMENT MONUMENTS (GROUND COORDINATES)						
POINT	NORTHING	EASTING	STATION	OFFSET	ALIGNMENT	DESCRIPTION
1000	173871.473	1766914.670	15+93.66	0.00'	CL R/W MITCHELL DEWITT ROAD	RAILROAD SPIKE FOUND; POINT OF TANGENCY
1012	174726.388	1767815.483	1088+86.22	0.17' LT	CL R/W INDUSTRIAL PARKWAY	MAG NAIL FOUND; POINT OF INTERSECTION
1016	174214.017	1769393.572	40+96.13	0.00'	CL R/W MITCHELL DEWITT ROAD	1" IRON PIN FOUND IN MONUMENT BOX ASSEMBLY; POINT OF TANGENCY
15626	174081.061	1768404.076	1097+59.65	0.00'	CL R/W INDUSTRIAL PARKWAY	RAILROAD SPIKE FOUND; POINT OF INTERSECTION **(TO BE SET AFTER CONSTRUCTION WITH A 5/8" DIAMETER BY 30" LONG IRON PIN W/ "ASI PS 8808"**
			30+97.74	0.00'	CL R/W MITCHELL DEWITT ROAD	

PROPOSED ALIGNMENT MONUMENTS (GROUND COORDINATES)						
POINT #	NORTHING	EASTING	STATION	OFFSET	ALIGNMENT	DESCRIPTION
1 / AA	173986.614	1767732.949	24+20.00	0.00' RT	CL R/W MITCHELL DEWITT ROAD	MAG SPIKE SET; INTERSECTION CL R/W MITCHELL DEWITT ROAD AND CL CONST. MITCHELL DEWITT ROAD **(TO BE SET AFTER CONSTRUCTION)**
			24+20.00	0.00' RT	CL CONST. MITCHELL DEWITT ROAD	
15626	174081.061	1768404.076	1097+59.65	0.00' RT	CL R/W INDUSTRIAL PARKWAY	RAILROAD SPIKE FOUND; POINT OF INTERSECTION **(TO BE SET AFTER CONSTRUCTION WITH A 5/8" DIAMETER BY 30" LONG IRON PIN W/ "ASI PS 8808"**
			30+97.74	0.00' RT	CL R/W MITCHELL DEWITT ROAD	
4 / AG	174166.249	1769038.068	37+37.43	0.00' RT	CL R/W MITCHELL DEWITT ROAD	MAG SPIKE SET; INTERSECTION CL R/W MITCHELL DEWITT ROAD AND CL CONST. MITCHELL DEWITT ROAD **(TO BE SET AFTER CONSTRUCTION)**
			37+57.12	0.00' RT	CL CONST. MITCHELL DEWITT ROAD	

EXISTING SURVEY CONTROL & MONUMENTS (GROUND COORDINATES)						
POINT #	NORTHING	EASTING	STATION	OFFSET	ALIGNMENT	DESCRIPTION
1003	174017.845	1767738.888	00+30.10	54.98' LT	CL R/W MITCHELL CROSSING DRIVE	3/4" BENT IRON PIPE FOUND W/ "ADVANCED" CAP
			24+30.23	30.10' LT	CL R/W MITCHELL DEWITT ROAD	
1004	174046.032	1767760.049	00+55.06	30.09' LT	CL R/W MITCHELL CROSSING DRIVE	3/4" IRON PIPE FOUND W/ "ADVANCED" CAP
			24+55.12	55.06' LT	CL R/W MITCHELL DEWITT ROAD	
1005	174054.382	1767819.557	00+55.04	30.00' RT	CL R/W MITCHELL CROSSING DRIVE	3/4" IRON PIPE FOUND W/ "ADVANCED" CAP
			25+15.21	55.04 LT	CL R/W MITCHELL DEWITT ROAD	
1006	174033.137	1767847.784	00+30.07	54.99' RT	CL R/W MITCHELL CROSSING DRIVE	3/4" IRON PIPE FOUND W/ "ADVANCED" CAP
			25+40.20	30.07' LT	CL R/W MITCHELL DEWITT ROAD	
1007	174085.55	1768220.559	29+16.64	30.02' LT	CL R/W MITCHELL DEWITT ROAD	3/4" IRON PIPE FOUND W/ "ADVANCED" CAP
1008	174173.382	1768252.173	1095+89.07	49.99' RT	CL R/W INDUSTRIAL PARKWAY	3/4" IRON PIPE FOUND W/ "ADVANCED" CAP
1009	174105.989	1768333.855	1096+93.91	35.07' RT	CL R/W INDUSTRIAL PARKWAY	GOVERNMENT MONUMENT; DISK INSCRIBED "117 WSM 1953 RESET 1963" SET IN CONCRETE
			30+31.68	34.47' LT	CL R/W MITCHELL DEWITT ROAD	
1010	174573.351	1767887.395	1090+47.74	49.86' RT	CL R/W INDUSTRIAL PARKWAY	3/4" BENT IRON PIPE FOUND
1011	174670.766	1767779.418	1089+03.00	63.96' RT	CL R/W INDUSTRIAL PARKWAY	3/4" IRON PIPE FOUND W/ "ADVANCED" CAP
1028	174050.369	1768481.915	1098+34.78	36.84' LT	CL R/W INDUSTRIAL PARKWAY	3/4" BENT IRON PIPE FOUND
			31+70.80	40.78' RT	CL R/W MITCHELL DEWITT ROAD	
15907	173989.312	1768581.976	1099+47.31	69.64' LT	CL R/W INDUSTRIAL PARKWAY	5/8" IRON PIN FOUND W/ "TEAM FISHEL SURVEY" CAP
15916	174002.806	1768596.667	1099+47.24	89.58' LT	CL R/W INDUSTRIAL PARKWAY	5/8" IRON PIN FOUND W/ "TEAM FISHEL SURVEY" CAP
15917	173988.031	1768610.318	1099+67.36	89.72' LT	CL R/W INDUSTRIAL PARKWAY	5/8" IRON PIN FOUND W/ "TEAM FISHEL SURVEY" CAP

SURVEY CONTROL POINTS SET (GROUND COORDINATES)						
POINT #	NORTHING	EASTING	STATION	OFFSET	ALIGNMENT	DESCRIPTION
1500	174110.086	1768284.560	1096+57.65	68.72' RT	CL R/W INDUSTRIAL PARKWAY	5/8" IRON PIN SET W/ "ASI CONTROL" CAP
			29+83.44	45.40 LT	CL R/W MITCHELL DEWITT ROAD	5/8" IRON PIN SET W/ "ASI CONTROL" CAP
1501	173963.354	1767684.037	23+68.32	16.22 RT	CL R/W MITCHELL DEWITT ROAD	5/8" IRON PIN SET W/ "ASI CONTROL" CAP
1502	173661.151	1768761.658	1103+10.87	18.71 RT	CL R/W INDUSTRIAL PARKWAY	5/8" IRON PIN SET W/ "ASI CONTROL" CAP
1503	174147.203	1769099.497	37+95.78	27.06 RT	CL R/W MITCHELL DEWITT ROAD	5/8" IRON PIN SET W/ "ASI CONTROL" CAP
1504	174515.138	1767982.628	1091+54.93	18.75 RT	CL R/W INDUSTRIAL PARKWAY	5/8" IRON PIN SET W/ "ASI CONTROL" CAP

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RC002 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:49 PM USER: lstutler
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RIGHT-OF-WAY CENTERLINE PLAT - SHEET 2 OF 2

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JBY/MWM

REVIEWER
MJW 06/02/23

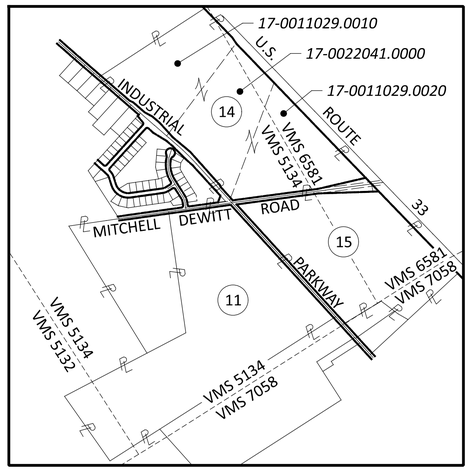
PROJECT ID
2022.01156

SUBSET 3 | TOTAL 15

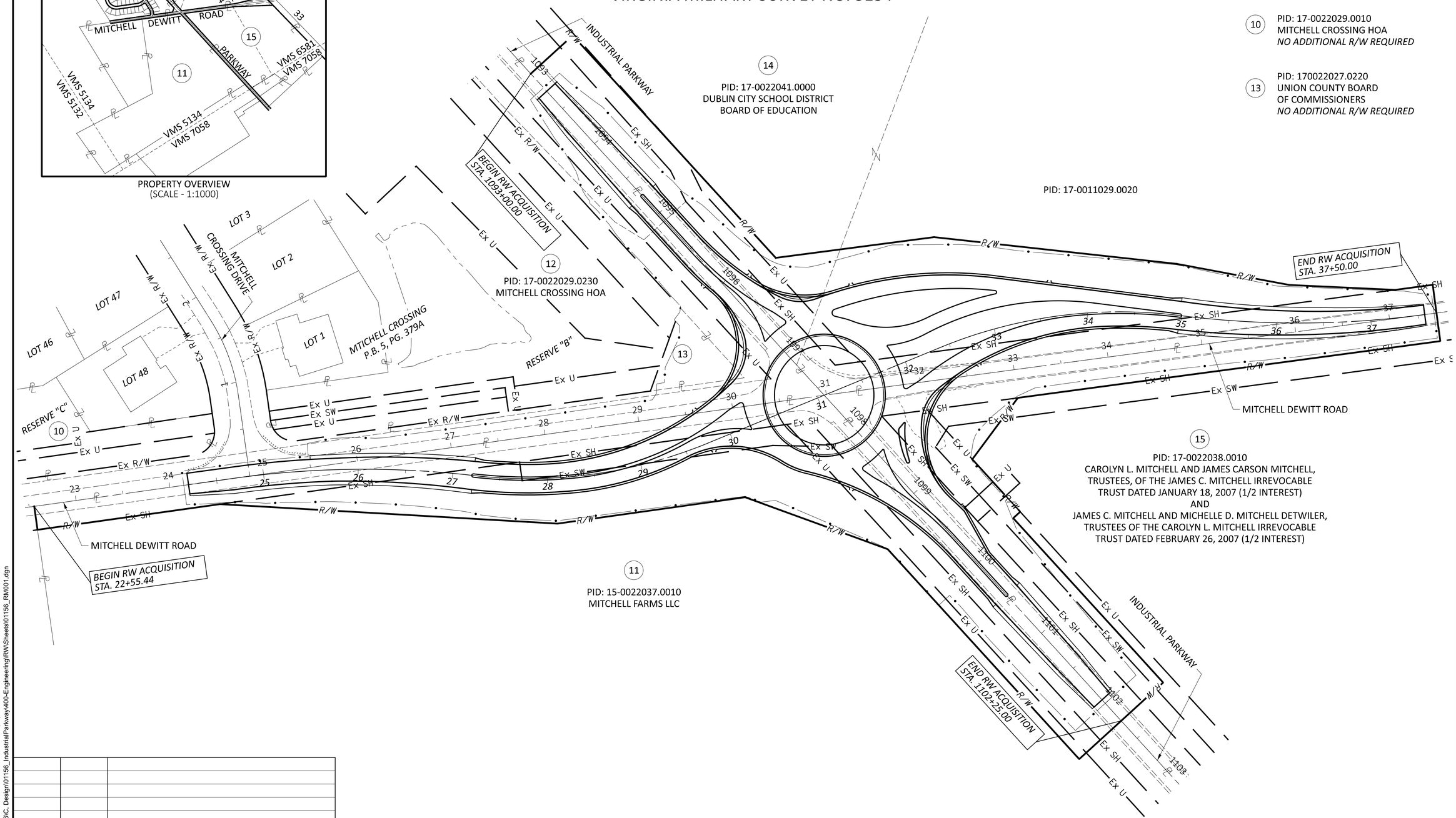
SHEET 119 | TOTAL 131

INDUSTRIAL PARKWAY & MITCHELL DEWITT ROAD INTERSECTION IMPROVEMENTS

STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134



PROPERTY OVERVIEW
(SCALE - 1:1000)



REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

PROPERTY MAP

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
JBY/MWM

REVIEWER
MJW 06/02/23

PROJECT ID
2022.01156

SUBSET 4 | TOTAL 15

SHEET 120 | TOTAL 131

MODEL: RM001 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:52 PM USER: lstutler
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TOTAL NUMBER OF :

3 OWNERSHIPS 0 TOTAL TAKES

3 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET TAKE = GROSS TAKE - PRO IN TAKE

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF UNION COUNTY BOARD OF COMMISSIONERS UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNER'S RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED INST. NO.
1-9	NOT USED												100% LOCAL		
10	MITCHELL CROSSING HOA	6-7	I.N. 201612050010037	17-0022029.0010	3.092	0.000								NO ADDITIONAL RIGHT-OF-WAY REQUIRED	
11-WD	MITCHELL FARMS LLC	6-9	O.R. 783, PG. 539	15-0022037.0010	109.400	1.868 (c)	1.902	0.795	1.107					(0.348 AC. EASE. OVERLAP)	
		14-15	O.R. 893, PG. 536											+3 METAL POSTS, +1 PRIVATE SIGN	
12	MITCHELL CROSSING HOA	6-9	I.N. 201612050010037	17-0022029.0230	9.364	0.000	0.000	0.000	0.000					NO ADDITIONAL RIGHT-OF-WAY REQUIRED	
		12-13													
13	UNION COUNTY BOARD OF COMMISSIONERS	8-9	PB 5, PG 379A	17-0022027.0220	0.100	0.1000	0.000							DEDICATED R/W (PB 5, PG 379A)	
														NO ADDITIONAL R/W REQUIRED	
14-WD	DUBLIN CITY SCHOOL DISTRICT	8-13	I.N. 202209010008363	17-0011029.0010	32.624	1.1288	0.000	0.000	0.000					(0.204 AC. EASE. OVERLAP)	
	BOARD OF EDUCATION		I.N. 202209010008364	17-0022041.0000	32.624	1.103 (c)	0.596	0.329	0.267						
			I.N. 202209010008362	17-0011029.0020	32.624	0.815 (c)	1.461	0.474	0.987						
	14-WD TOTAL				**97.872**	**3.047**	**2.057**	**0.803**	**1.254**						
15-WD	CAROLYN L. MITCHELL AND JAMES CARSON MITCHELL, TRUSTEES OF THE JAMES C. MITCHELL IRREVOCABLE TRUST DATED JANUARY 18, 2007 (1/2 INTEREST) AND JAMES C. MITCHELL AND MICHELLE D. MITCHELL DETWILER, TRUSTEES OF THE CAROLYN L. MITCHELL IRREVOCABLE TRUST DATED FEBRUARY 26, 2007 (1/2 INTEREST)	8-11	O.R. 721, PG. 894	17-0022038.0010	70.502	2.618 (c)	1.102	0.730	0.372					(0.345 AC. EASE. OVERLAP)	
		14-15	O.R. 729, PG. 708												

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

NOTE: ALL TEMPORARY PARCELS TO BE OF 6 MONTH DURATION.

TYPES OF TITLE LEGEND:

WD = WARRANTY DEED

+ DENOTES REMOVAL ITEMS SEE CORRESPONDING RIGHT OF WAY PLAN SHEET FOR DESCRIPTION

** DENOTES RIGHT OF WAY ENCROACHMENT*

(c) = CALCULATED AREA

REV. BY	DATE	DESCRIPTION

FIELD REVIEW BY R. MOSELEY DATE: 3/7/2023

OWNERSHIP VERIFIED BY J.B. YOUMANS DATE: 3/13/2023

DATE COMPLETED 05/17/2023

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: JBY/MWM

REVIEWER: MJW 06/02/23

PROJECT ID: 2022.01156

SUBSET 5 TOTAL 15

SHEET 121 TOTAL 131

SUMMARY OF ADDITIONAL RIGHT-OF-WAY

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: RS001 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:55 PM USER: lstutler
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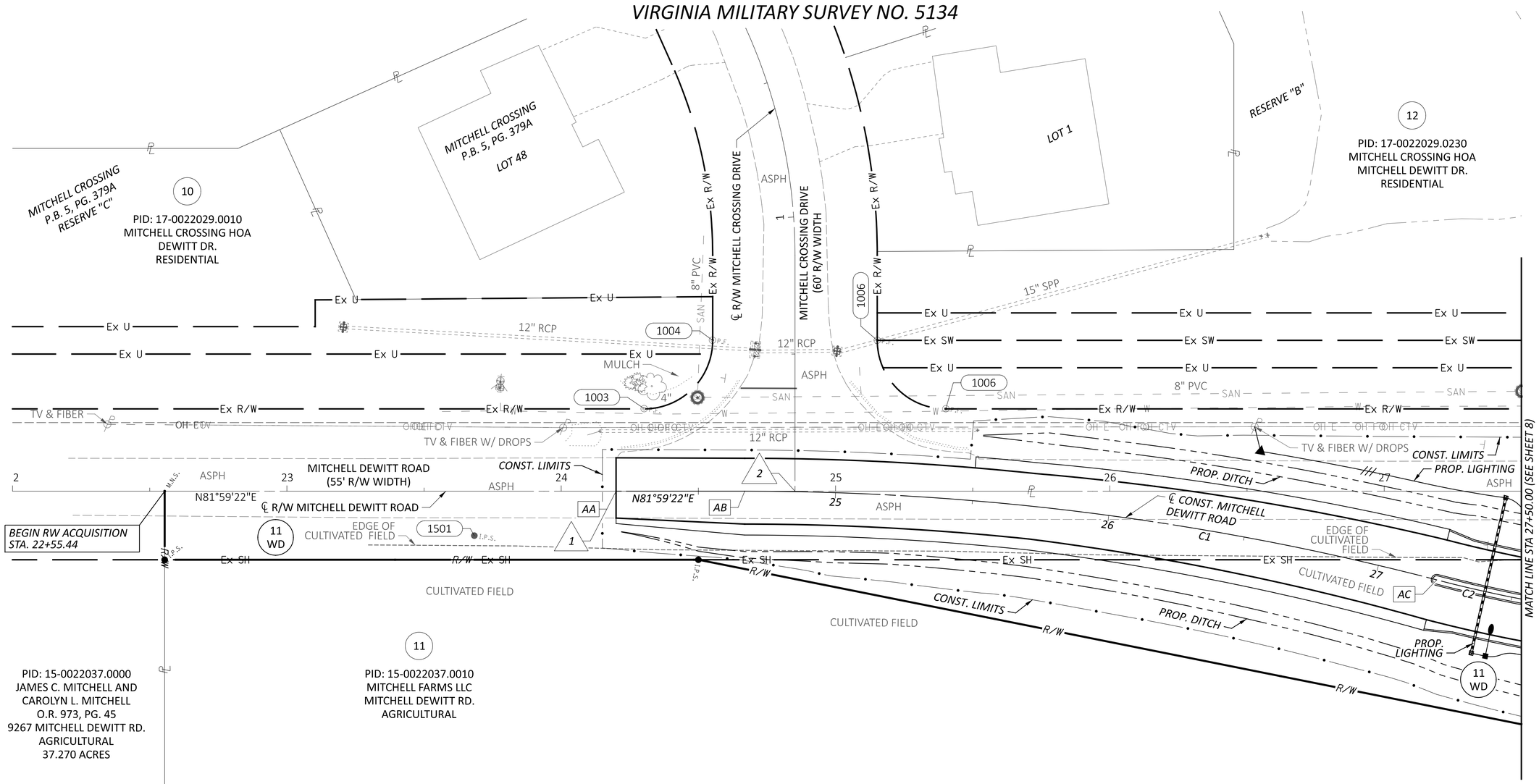
STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134



HORIZONTAL SCALE IN FEET
0 10 20 40

1 STA. 24+20.00 (℄ R/W MITCHELL DEWITT RD) = STA. 24+20.00 (℄ CONST. MITCHELL DEWITT RD)

2 STA. 24+85.21 (℄ R/W MITCHELL DEWITT RD) = STA. 0+00.00 (℄ R/W MITCHELL CROSSING DR)

AA POT STA. 24+20.00

AB PC STA. 24+66.89

AC PRC STA. 27+21.93

C1 - CURVE DATA
PI = STA 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000.00'
T = 128.21'
L = 255.04'
E = 8.19'

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

RIGHT-OF-WAY TOPO SHEET
MITCHELL DEWITT ROAD STA 22+00.00 TO STA 27+50.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RT101 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:19:59 PM USER: lstutler
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DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER	JBY/MWM
REVIEWER	MJW 06/02/23
PROJECT ID	2022.01156
SUBSET	6
TOTAL	15
SHEET	122
TOTAL	131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB101 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:02 PM USER: lstutler
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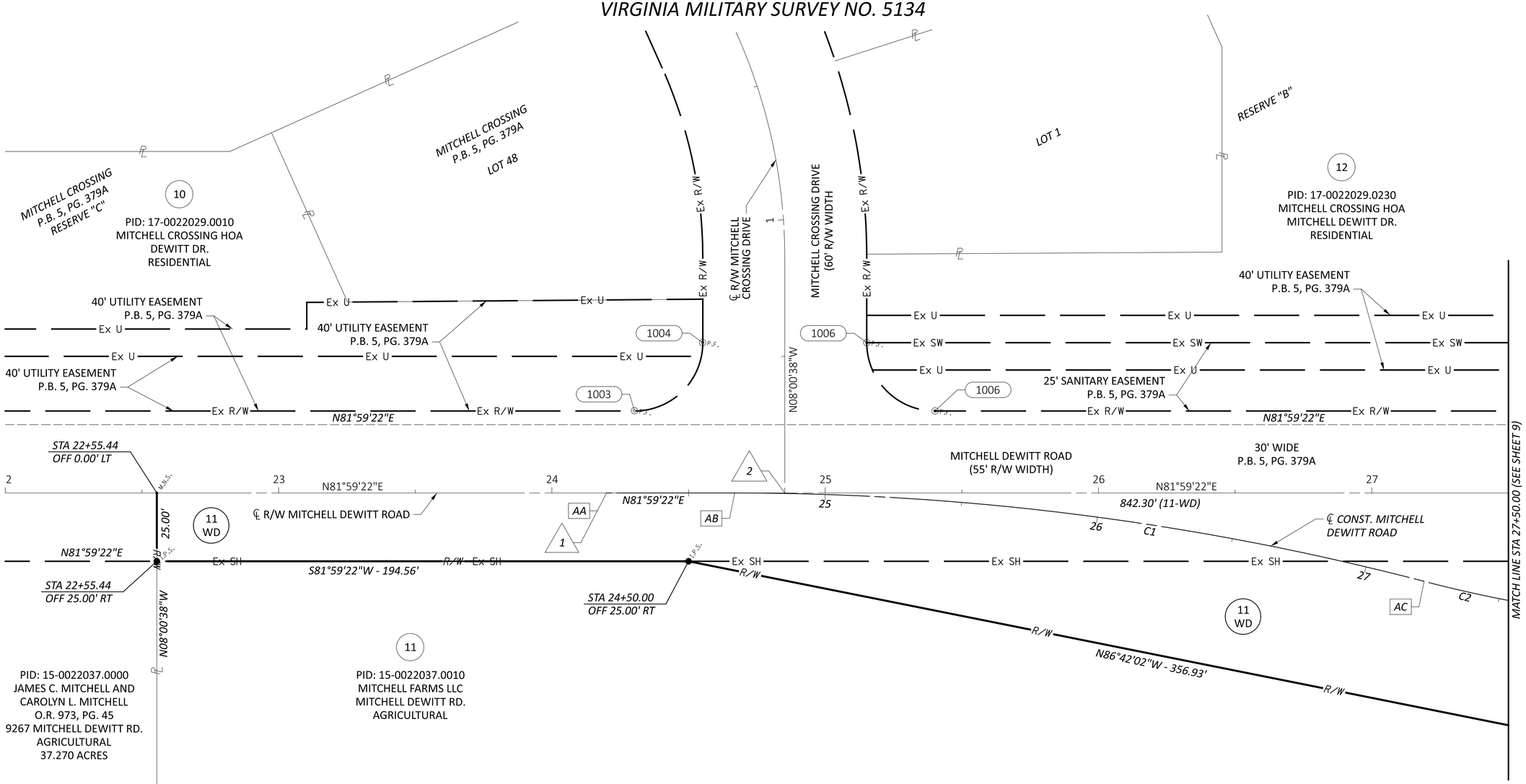
STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134



1 STA. 24+20.00 (℄ R/W MITCHELL DEWITT RD) = STA. 24+20.00 (℄ CONST. MITCHELL DEWITT RD)

2 STA. 24+85.21 (℄ R/W MITCHELL DEWITT RD) = STA. 0+00.00 (℄ R/W MITCHELL CROSSING DR)

AA POT STA. 24+20.00

AB PC STA. 24+66.89

AC PRC STA. 27+21.93

C1 - CURVE DATA
PI = STA 25+95.10
Δ = 14°36'45" RT
Dc = 05°43'46"
R = 1,000.00'
T = 128.21'
L = 255.04'
E = 8.19'

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

HORIZONTAL SCALE IN FEET 0 10 20 40

RIGHT-OF-WAY BOUNDARY SHEET
MITCHELL DEWITT ROAD STA 22+00.00 TO STA 27+50.00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
STRUCTUREPOINT INC.
AVPER&CN

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 7 TOTAL 15
SHEET 123 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RT102 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:07 PM USER: lstutler
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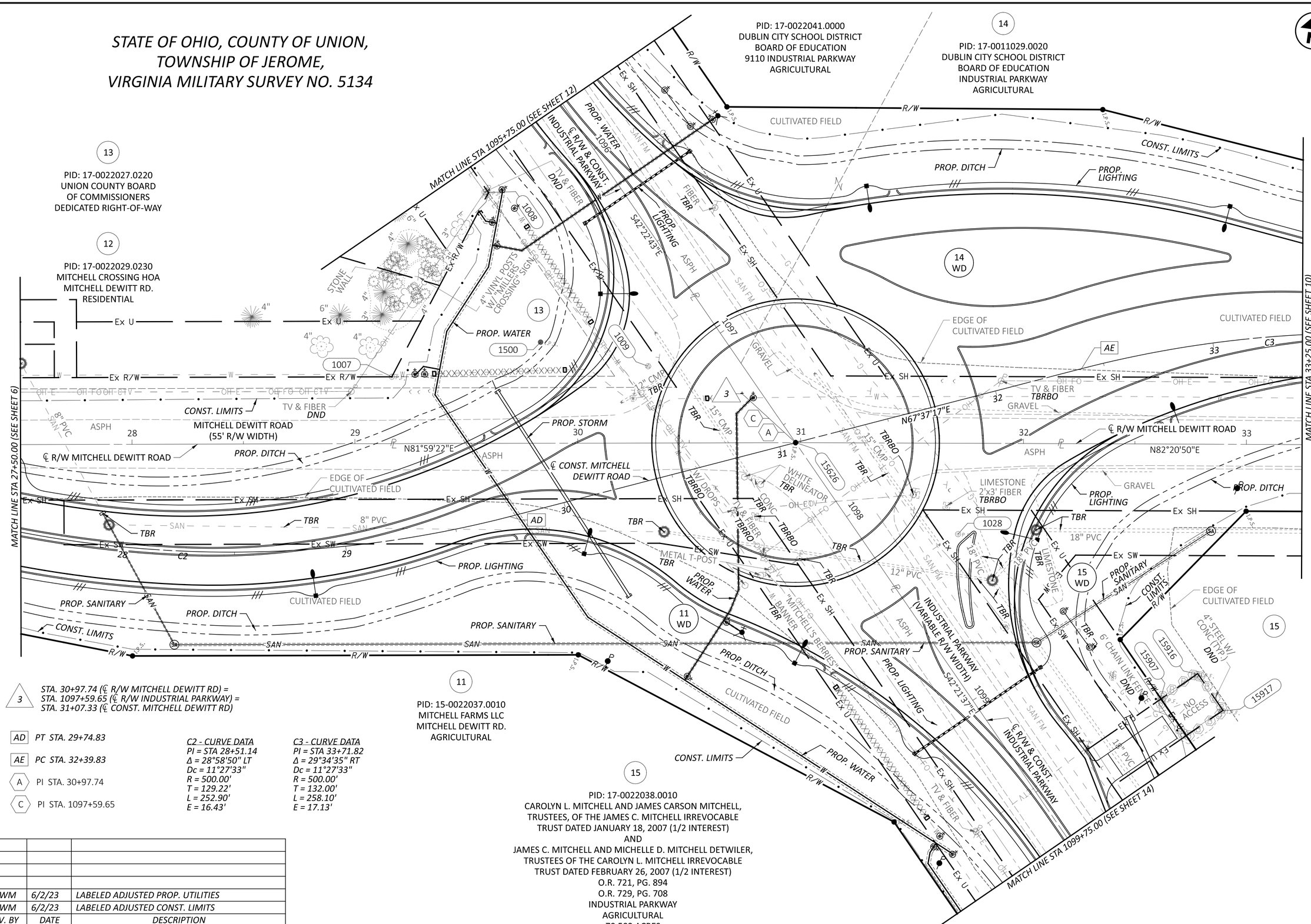
STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134



3 STA. 30+97.74 (℄ R/W MITCHELL DEWITT RD) =
STA. 1097+59.65 (℄ R/W INDUSTRIAL PARKWAY) =
STA. 31+07.33 (℄ CONST. MITCHELL DEWITT RD)

AD PT STA. 29+74.83

AE PC STA. 32+39.83

A PI STA. 30+97.74

C PI STA. 1097+59.65

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

REV. BY	DATE	DESCRIPTION
MWM	6/2/23	LABELED ADJUSTED PROP. UTILITIES
MWM	6/2/23	LABELED ADJUSTED CONST. LIMITS

DATE COMPLETED 05/17/2023

HORIZONTAL SCALE IN FEET 0 10 20 40

RIGHT-OF-WAY TOPO SHEET
MITCHELL DEWITT ROAD STA 27+50.00 TO STA 33+25.00
INDUSTRIAL PARKWAY STA 1095+75.00 TO STA 1099+75.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 8 TOTAL 15
SHEET 124 TOTAL 131

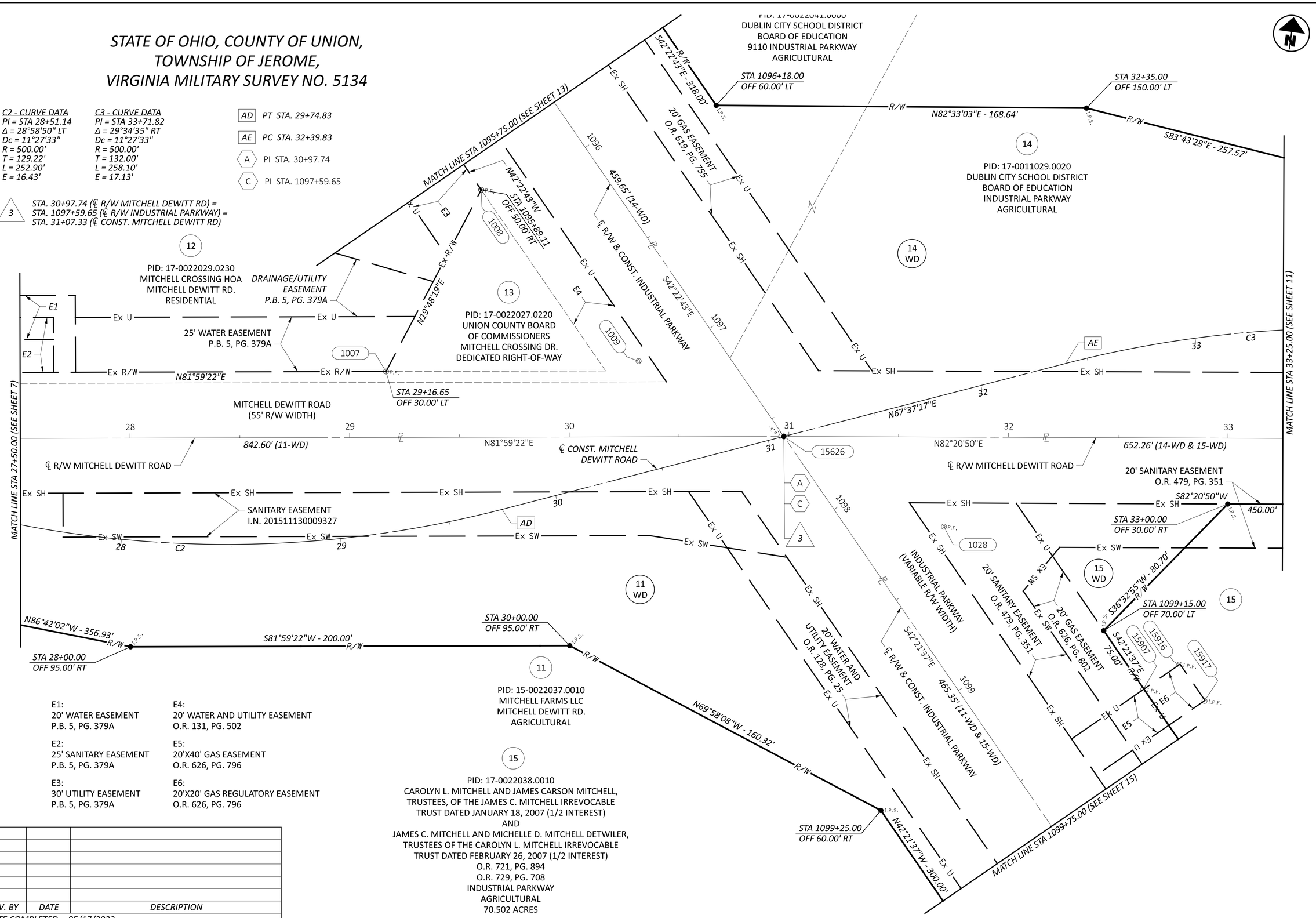
STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134

C2 - CURVE DATA
PI = STA 28+51.14
Δ = 28°58'50" LT
Dc = 11°27'33"
R = 500.00'
T = 129.22'
L = 252.90'
E = 16.43'

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

AD PT STA. 29+74.83
AE PC STA. 32+39.83
A PI STA. 30+97.74
C PI STA. 1097+59.65

3 STA. 30+97.74 (℄ R/W MITCHELL DEWITT RD) = STA. 1097+59.65 (℄ R/W INDUSTRIAL PARKWAY) = STA. 31+07.33 (℄ CONST. MITCHELL DEWITT RD)



E1:
20' WATER EASEMENT
P.B. 5, PG. 379A

E2:
25' SANITARY EASEMENT
P.B. 5, PG. 379A

E3:
30' UTILITY EASEMENT
P.B. 5, PG. 379A

E4:
20' WATER AND UTILITY EASEMENT
O.R. 131, PG. 502

E5:
20'X40' GAS EASEMENT
O.R. 626, PG. 796

E6:
20'X20' GAS REGULATORY EASEMENT
O.R. 626, PG. 796

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB102 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:11 PM USER: lstutler
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RIGHT-OF-WAY BOUNDARY SHEET
MITCHELL DEWITT ROAD STA 27+50.00 TO 33+25.00
INDUSTRIAL PARKWAY STA 1095+75.00 TO 1099+75.00

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
JBY/MWM

REVIEWER
MJW 06/02/23

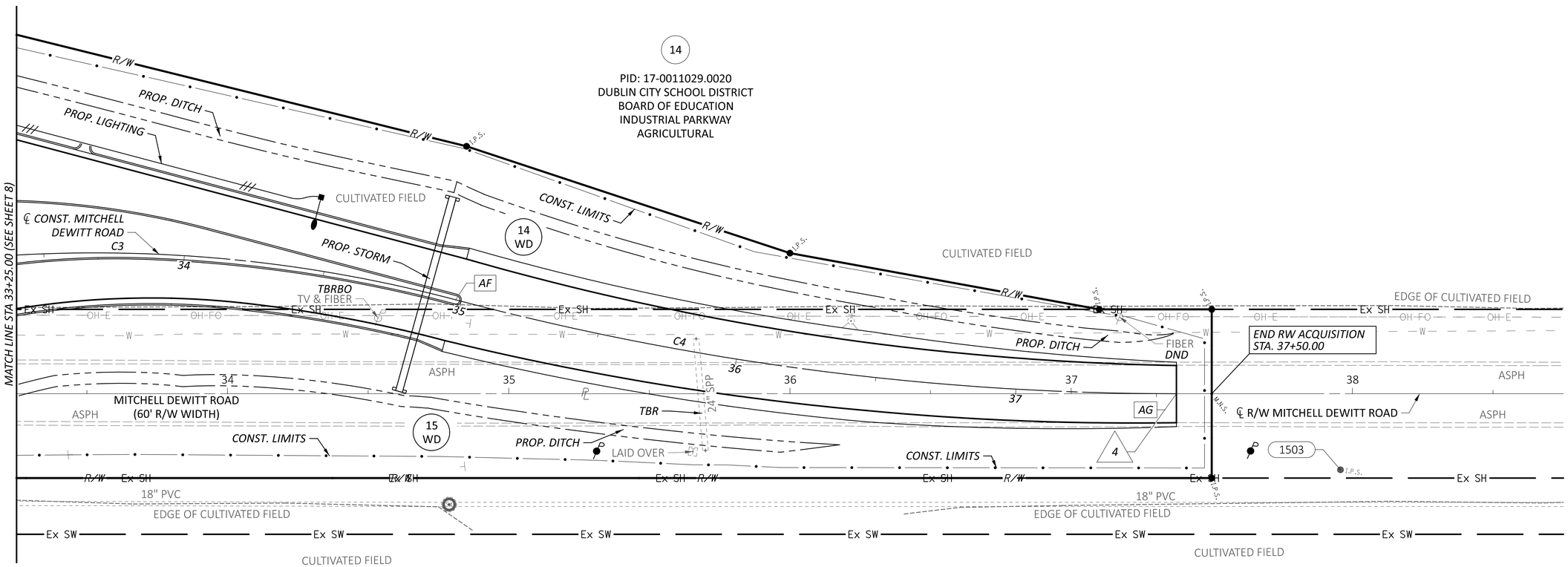
PROJECT ID
2022.01156

SUBSET 9 | TOTAL 15

SHEET 125 | TOTAL 131

STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134

HORIZONTAL SCALE IN FEET 0 10 20 40



PID: 17-0022038.0010
CAROLYN L. MITCHELL AND JAMES CARSON MITCHELL,
TRUSTEES, OF THE JAMES C. MITCHELL IRREVOCABLE
TRUST DATED JANUARY 18, 2007 (1/2 INTEREST)
AND
JAMES C. MITCHELL AND MICHELLE D. MITCHELL DETWILER,
TRUSTEES OF THE CAROLYN L. MITCHELL IRREVOCABLE
TRUST DATED FEBRUARY 26, 2007 (1/2 INTEREST)
INDUSTRIAL PARKWAY
AGRICULTURAL

AF — PRC STA. 34+97.93

AG — POT STA. 37+57.12

4 — STA. 37+37.43 (℄ R/W MITCHELL DEWITT RD) = STA. 37+57.12 (℄ CONST. MITCHELL DEWITT RD)

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

C4 - CURVE DATA
PI = STA 36+28.25
Δ = 14°51'02" LT
Dc = 05°43'46"
R = 1,000.00'
T = 130.33'
L = 259.19'
E = 8.46'

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

RIGHT-OF-WAY TOPO SHEET
MITCHELL DEWITT ROAD STA 33+25.00 TO STA 38+75.00

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER MWM/JBY
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 10 TOTAL 15
SHEET 126 TOTAL 131

MODEL: 01156_RT103 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:16 PM USER: lstutler
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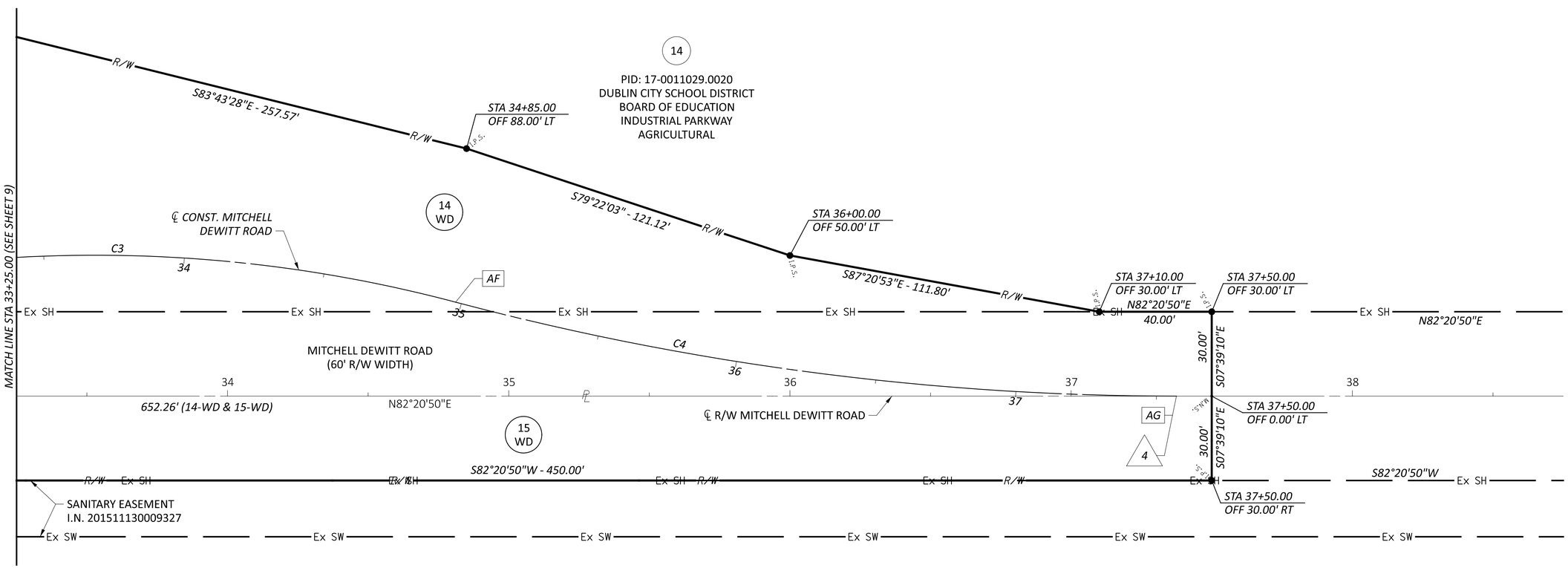
STATE OF OHIO, COUNTY OF UNION, TOWNSHIP OF JEROME, VIRGINIA MILITARY SURVEY NO. 5134



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PID: 17-0022038.0010
CAROLYN L. MITCHELL AND JAMES CARSON MITCHELL,
TRUSTEES, OF THE JAMES C. MITCHELL IRREVOCABLE
TRUST DATED JANUARY 18, 2007 (1/2 INTEREST)
AND
JAMES C. MITCHELL AND MICHELLE D. MITCHELL DETWILER,
TRUSTEES OF THE CAROLYN L. MITCHELL IRREVOCABLE
TRUST DATED FEBRUARY 26, 2007 (1/2 INTEREST)
INDUSTRIAL PARKWAY
AGRICULTURAL

AF PRC STA. 34+97.93

AG POT STA. 37+57.12

4 STA. 37+37.43 (℄ R/W MITCHELL DEWITT RD) = STA. 37+57.12 (℄ CONST. MITCHELL DEWITT RD)

C3 - CURVE DATA
PI = STA 33+71.82
Δ = 29°34'35" RT
Dc = 11°27'33"
R = 500.00'
T = 132.00'
L = 258.10'
E = 17.13'

C4 - CURVE DATA
PI = STA 36+28.25
Δ = 14°51'02" LT
Dc = 05°43'46"
R = 1,000.00'
T = 130.33'
L = 259.19'
E = 8.46'

HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY BOUNDARY SHEET
MITCHELL DEWITT ROAD STA 33+25.00 TO STA 38+75.00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 11 TOTAL 15
SHEET 127 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB103 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:21 PM USER: lstutler
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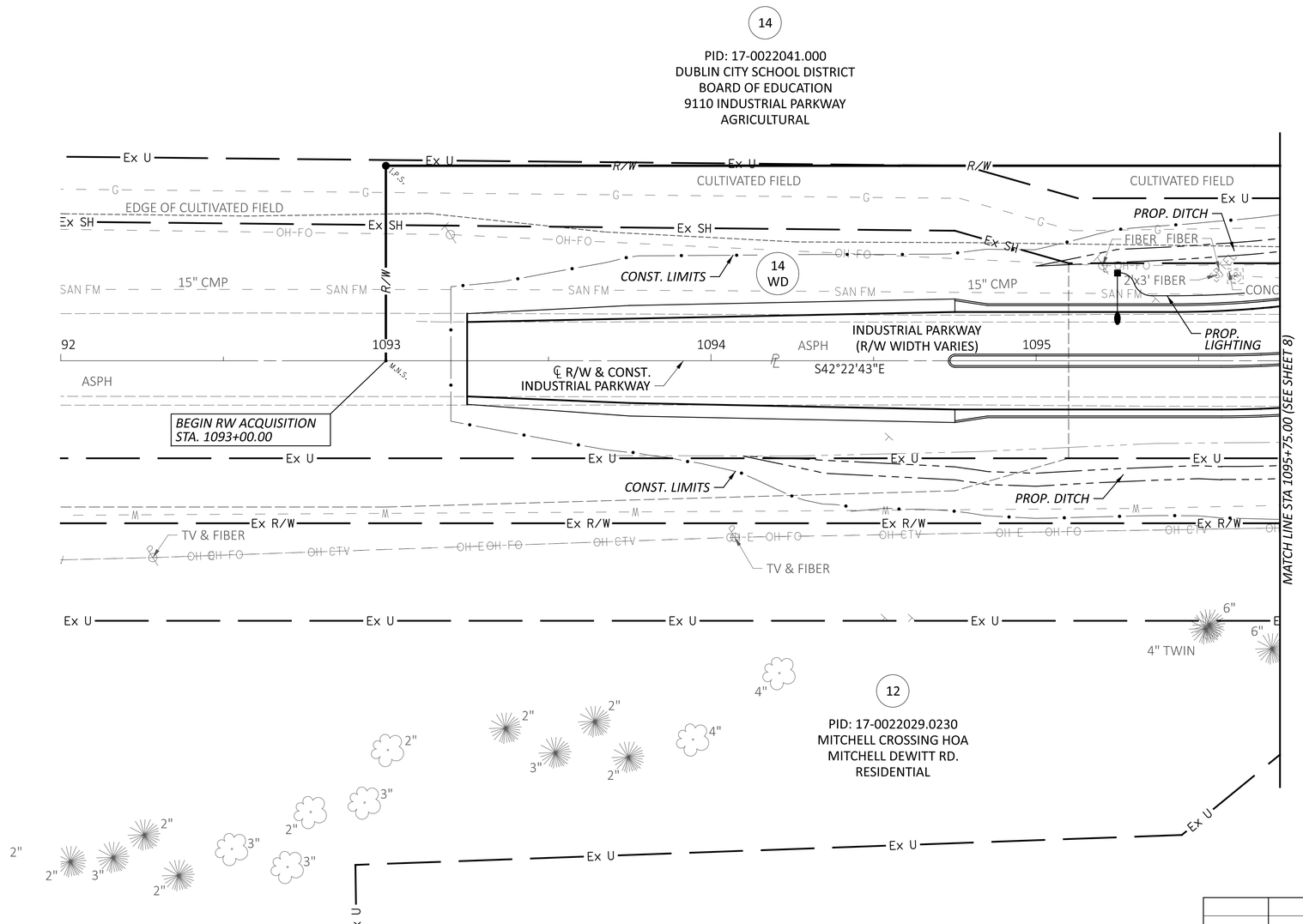
STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134



HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY TOPO SHEET
INDUSTRIAL PARKWAY STA 1092+00.00 TO STA 1095+75.00

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RT201 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:25 PM USER: lstutler
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REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
JBY/MWM

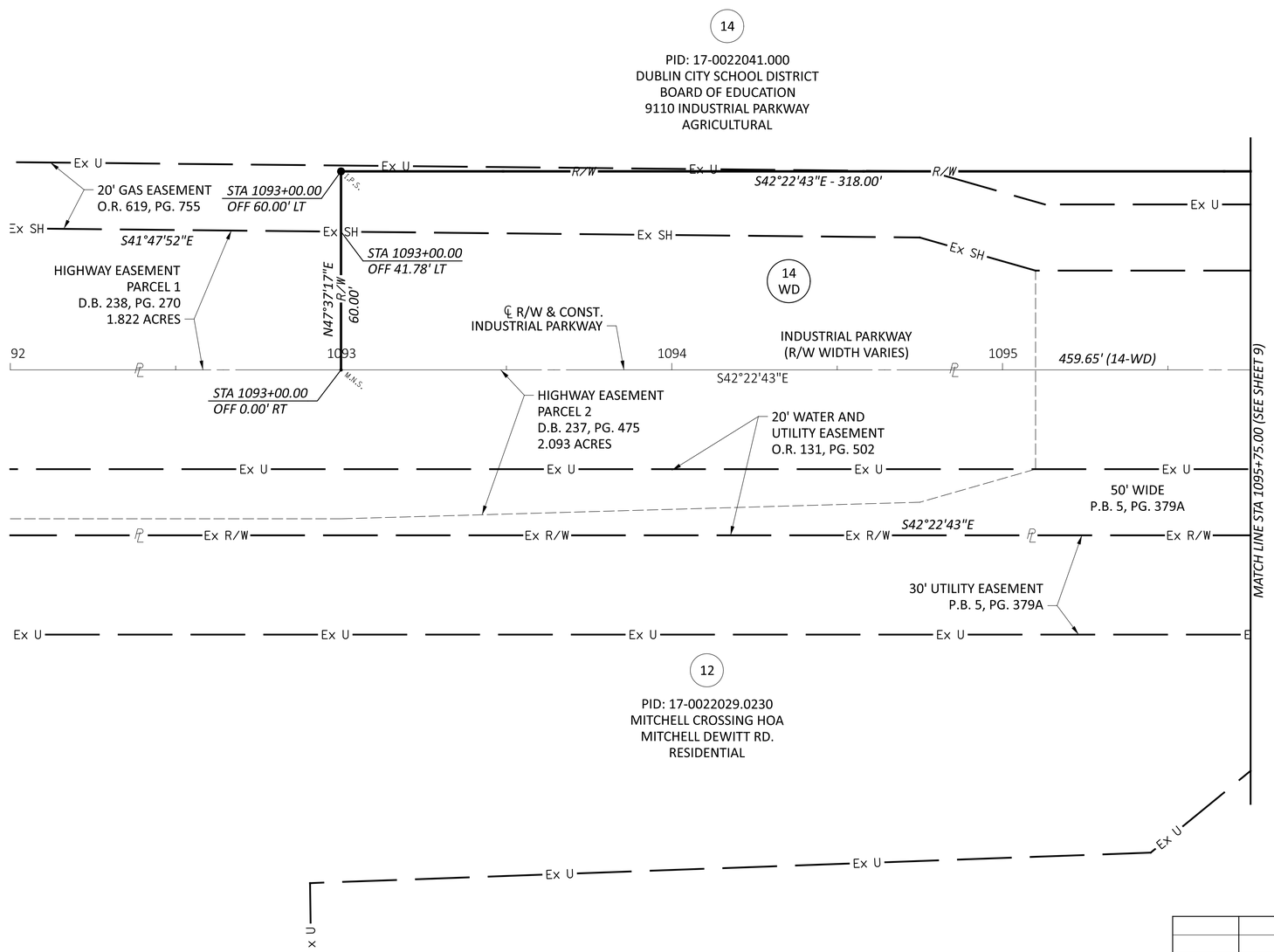
REVIEWER
MJW 06/02/23

PROJECT ID
2022.01156

SUBSET 12 | TOTAL 15

SHEET 128 | TOTAL 131

STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134



HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY BOUNDARY SHEET
INDUSTRIAL PARKWAY STA 1092+00.00 TO STA 1095+75.00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 05/17/2023

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER
JBY/MWM

REVIEWER
MJW 06/02/23

PROJECT ID
2022.01156

SUBSET 13 | TOTAL 15

SHEET 129 | TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB201 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:29 PM USER: lstutler
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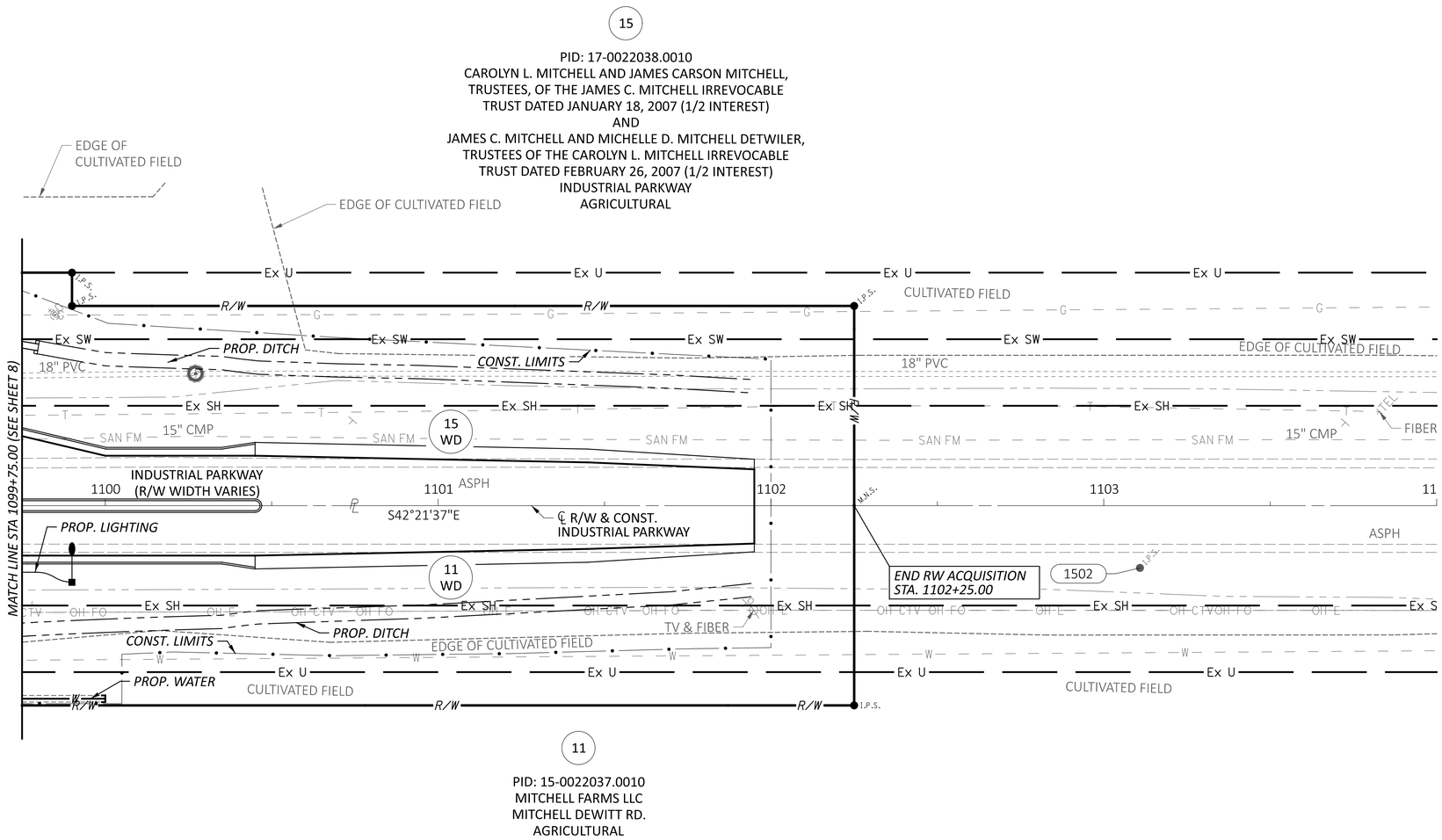
STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134



HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT OF WAY TOPO SHEET
INDUSTRIAL PARKWAY STA 1099+75.00 TO STA 1104+00.00

REV. BY	DATE	DESCRIPTION
MWM	6/2/23	ADDED PROP. WATER LABEL
MWM	5/30/23	CORRECTED CL OF R/W LABEL

DATE COMPLETED 05/17/2023

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER JBY/MWM
REVIEWER MJW 06/02/23
PROJECT ID 2022.01156
SUBSET 14 TOTAL 15
SHEET 130 TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RT202 Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:33 PM USER: lstutler
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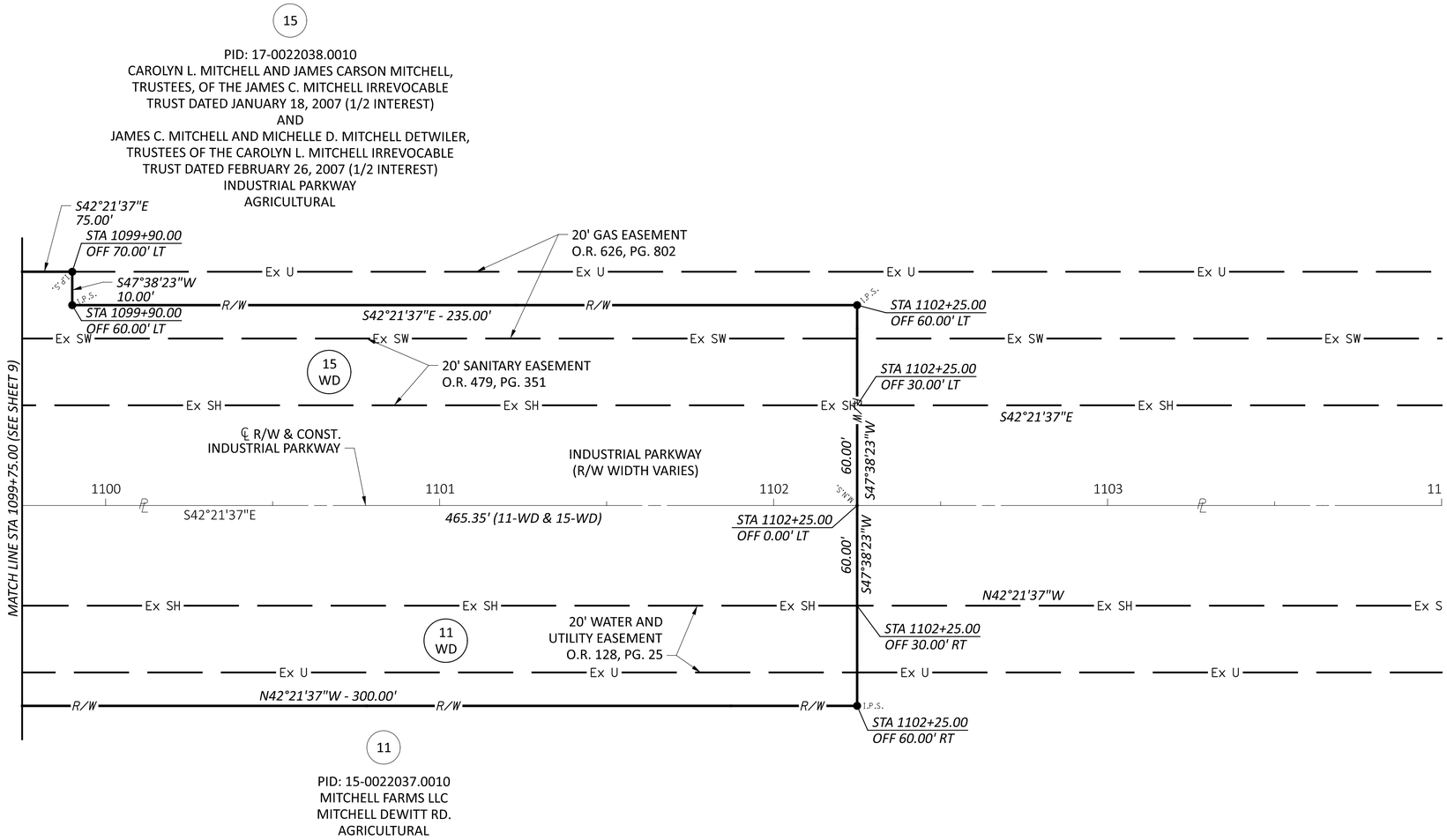
STATE OF OHIO, COUNTY OF UNION,
TOWNSHIP OF JEROME,
VIRGINIA MILITARY SURVEY NO. 5134



HORIZONTAL SCALE IN FEET
0 10 20 40

RIGHT-OF-WAY BOUNDARY SHEET
INDUSTRIAL PARKWAY STA 1099+75.00 TO STA 1104+00.00

REV. BY	DATE	DESCRIPTION
MWM	5/30/23	CORRECTED CL OF R/W LABEL

DATE COMPLETED 05/17/2023

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: JBY/MWM

REVIEWER: MJW 06/02/23

PROJECT ID: 2022.01156

SUBSET 15 | TOTAL 15

SHEET 131 | TOTAL 131

INDUSTRIAL PKWY & MITCHELL-DEWITT RD INTERSECTION IMPROVEMENTS

MODEL: 01156_RB202.Sheet PAPERSIZE: 34x22 (in.) DATE: 11/21/2023 TIME: 2:20:37 PM USER: lstutler
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