GENERAL (CONTINUED)

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

ITEM 204 - PROOF ROLLING

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

ITEM 204 - PROOF ROLLING 71 HOUR

ROADWAY

ITEM 203 - EMBANKMENT, AS PER PLAN AND
ITEM 203 - EXCAVATION, AS PER PLAN

R10

ALL PROVISIONS OF 203 APPLY EXCEPT THE METHOD OF MEASUREMENT SHALL NOT USE THE AVERAGE END AREA METHOD. THE DEPARTMENT WILL MEASURE THE TOTAL CUBIC YARDS OF EXCAVATION AND EMBANKMENT BASED ON A COMPARISON BETWEEN THE EXISTING AND FINAL SURFACE DIGITAL TERRAIN MODELS, EXCLUDING ANY AREAS THAT ARE ITEMIZED AND PAID SEPARATELY. ESTIMATED QUANTITIES ARE PROVIDED IN THE EARTHWORK SUBSUMMARY.

CEMENT STABILIZATION

THIS PROJECT REQUIRES SUBGRADE IMPROVEMENTS USING CEMENT STABILIZATION PRIOR TO PAVEMENT CONSTRUCTION. CEMENT STABILIZATION SHALL BE PERFORMED TO A DEPTH OF 12 INCHES EXCEPT AREAS FOUND TO CONTAIN UNSUITABLE SOILS SHALL BE STABILIZED TO A DEPTH OF 14 INCHES PER THE TABLE BELOW.

STATION RANGES OF UNSUITABLE SOILS			
ALIGNMENT	BEGIN STATION	END STATION	LENGTH (FT)
IR 90	742+00.00	746+00.00	400.00
RAMP 117-11	35+50.00	42+52.49	702.49
RAMP 117-12	33+63.90	43+76.68	1,012.78

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

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

ITEM 206 - MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS, LUMP

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

SUBGRADE EXCAVATION

IN AREAS WHERE SHALLOW ROCK IS ENCOUNTERED IN THE PROPOSED SUBGRADE WITHIN 12 INCHES BELOW THE BOTTOM OF THE PROPOSED PAVEMENT BUILDUP, CEMENT STABILIZATION SHALL NOT BE PERFORMED. THE CONTRACTOR SHALL EXCAVATE TO A DEPTH 6 INCHES BELOW THE FINAL SUBGRADE ELEVATION. THE WIDTH OF THE UPPER 6 INCHES OF AGGREGATE BASE SHALL EXTEND 18 INCHES BEYOND PAVED SHOULDERS. THE ADDITIONAL 6 INCHES BELOW THE BOTTOM OF THE 6 INCH AGGREGATE BASE SHALL BE REPLACED WITH ITEM 304 AGGREGATE BASE AND SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND PAVED SHOULDERS.

THE FOLLOWING LOCATIONS REPRESENT AREAS WHERE SHALLOW ROCK EXISTS BASED ON THE SUBSURFACE INVESTIGATION.

204 - EXCAVATION OF SUBGRADE, AS PER PLAN - SHALLOW ROCK				
ALIGNMENT	BEGIN STA	END STA	LENGTH (FT)	VOLUME (CU YD)
IR 90	563+00.00	659+00.00	9,801.82*	25,969
IR 90	674+00.00	682+00.00	800.00	2,075
IR 90	726+00.00	738+00.00	1,200.00	3,728
RAMP W1	36+39.23	42+13.75	574.52	341
RAMP W2	29+40.99	37+80.90	839.91	438
RAMP 117-5	27+06.36	31+00.00	393.64	197
RAMP 117-8	24+03.19	33+64.10	960.91	569
RAMP 117-9	30+57.77	39+69.36	911.59	431

*STATION EQUATION: STA. 617+61.82 BK R1 = STA. 615+60.00 AH R2

ADDITIONAL LOCATIONS WHERE EXCAVATION AND REPLACEMENT IS REQUIRED AS DESCRIBED ABOVE ARE AS FOLLOWS:

1. *WB MEDIAN SHOULDER FROM STA 539+50 TO STA 546+10 FOR THE AREA WITHIN THE MAINTENANCE OF TRAFFIC CROSSOVER.*
2. *FULL WIDTH OF THE EASTBOUND AND WESTBOUND PAVEMENT AND SHOULDERS FROM STA 696+30 TO STA 708+00.*

204 - EXCAVATION OF SUBGRADE, AS PER PLAN - ADDITIONAL AREAS				
ALIGNMENT	BEGIN STA	END STA	LENGTH (FT)	VOLUME (CU YD)
IR 90	539+50.00	546+10.00	660.00	417
IR 90	696+30.00	708+00.00	1,170.00	3,001

A VOLUME OF ITEM 204 EXCAVATION OF SUBGRADE, AS PER PLAN HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK DESCRIBED ABOVE.

ITEM 304 AGGREGATE BASE IS NOT INCLUDED IN THE COST OF ITEM 204 ABOVE AND WILL BE PAID FOR SEPARATELY AS ITEMIZED IN THE GENERAL SUMMARY.

ITEM 622 - CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN

CONSTRUCT REFERENCE CB-106 PER STANDARD CONSTRUCTION DRAWING RM-4.5M DATED 6/30/95. IT IS NOT NECESSARY TO TRANSITION THE BACK SIDE OF THE BARRIER TO MATCH THE EXISTING TYPE B NEW JERSEY SHAPE.

TEST HOLES

WHERE PLANS PROVIDE FOR PROPOSED SUBGRADE STABILIZATION, UNDERCUTTING, UNDERDRAIN, LIGHTING CONDUIT OR ITS CONDUIT TO CROSS OVER OR UNDER AN EXISTING UNDERGROUND UTILITY AND THE UTILITY DEPTH IS NOT SHOWN ON THE PLAN, THE CONTRACTOR WILL BE REQUIRED TO PERFORM TEST HOLES TO DETERMINE THE DEPTH OF THE UTILITY AT THE DIRECTION OF THE ENGINEER.

THE CONTRACTOR SHALL HAVE THE UTILITY MARKED USING OHIO 811 AND/OR BY USE OF RADIO FREQUENCY LOCATORS OR OTHER APPROVED METHOD. ONCE LOCATED, THE CONTRACTOR SHALL CAREFULLY HAND AND/OR VACUUM EXCAVATE TO DETERMINE THE DEPTH OF THE EXISTING UTILITY AND PROVIDE THE SURVEYED COORDINATE AND ELEVATION INFORMATION TO THE ENGINEER.

TEST HOLES (CONTINUED)

IF IT IS DETERMINED THAT THE PROPOSED SUBGRADE STABILIZATION, LIGHTING CONDUIT OR ITS CONDUIT WILL BE IN CONFLICT WITH AN EXISTING UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED WORK WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

THE FOLLOWING QUANTITY IS INCLUDED FOR USE AS DIRECTED BY THE ENGINEER FOR THE UTILITY LOCATION BY USE OF TEST HOLES AS DESCRIBED ABOVE:

ITEM 203 - ROADWAY, MISC.: TEST HOLE 24 EACH

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN
GUARDRAIL, TYPE MGS HALF POST SPACING, AS PER PLAN
GUARDRAIL, TYPE MGS QUARTER POST SPACING, AS PER PLAN

THE POSTS FOR THESE ITEMS SHALL BE STEEL PER 710.15. ALL OTHER PROVISIONS OF 606 SHALL APPLY.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

R3

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ONE OF THE MASH 2016 GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER C&MS 730.19.

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

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

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

ITEM 202 - PAVEMENT REMOVED, AS PER PLAN

R10

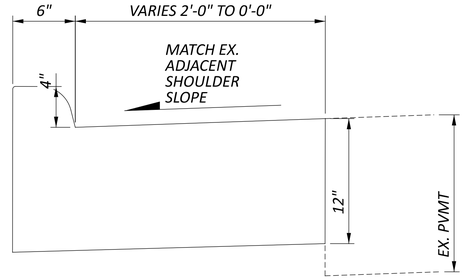
THIS ITEM INCLUDES THE REMOVAL OF EXISTING PAVEMENT TO THE MAXIMUM DEPTHS AS INDICATED ON THE TYPICAL SECTIONS, INCLUDING THE EXCAVATION AND REMOVAL OF ANY EXISTING EARTH OR SUBGRADE MATERIAL FOUND AT THIS DEPTH IF THE EXISTING PAVEMENT IS THINNER THAN SHOWN IN THE EXISTING TYPICAL SECTIONS.

R2

ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN

THE FOLLOWING VARIABLE WIDTH GUTTER DETAIL BELOW IS PROVIDED FOR THE LONG-TERM TEMPORARY TRANSITION FROM THE PROPOSED 12 FOOT INSIDE SHOULDER TO THE EXISTING 10 FOOT SHOULDER AT THE FOLLOWING LOCATION:

-STA. 768+85.00 TO STA. 769+18.60 EASTBOUND



THE CURB HEIGHT SHALL BE A UNIFORM 4 INCHES.

PAYMENT FOR ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK DESRIBED ABOVE SHALL BE MADE AT THE UNIT PRICE BID PER FOOT FOR:

ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 4, AS PER PLAN

ITEM 622 - BARRIER, MISC.: PORTABLE BARRIER REMOVED AND RESET

THE CONTRACTOR SHALL REMOVE THE EXISTING PORTABLE CONCRETE BARRIER ON THE EAST SIDE OF W. 140TH ST. NORTH OF RAMP 140-3 TO ALLOW FOR THE RECONSTRUCTION OF THE CURB, CURB RAMP AND SIDEWALK. THE CONTRACTOR MAY STORE THE BARRIER EAST OF THE EXISTING SIDEWALK OR OTHER LOCATION APPROVED BY THE ENGINEER THAT DOES NOT ADVERSELY AFFECT THE SAFETY OF THE PUBLIC. AFTER WORK HAS BEEN COMPLETED IN THIS AREA INCLUDING NECESSARY CONCRETE CURING TIMES, THE CONTRACTOR SHALL RESET THE BARRIER IN ITS ORIGINAL LOCATION AND ORIENTATION.

ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE (B1, C1, D), AS PER PLAN

AT LOCATIONS WHERE THE ENTIRE 15 FOOT LENGTH OF END ANCHORAGES CANNOT BE ACHIEVED OR WHERE THERE IS INSUFFICIENT SPACE FOR TWO BACK-TO-BACK END ANCHORAGES REQUIRED PER THE STANDARD CONSTRUCTION DRAWINGS, THE FOLLOWING WILL BE REQUIRED. THE 6-INCH SPACING OF THE Y401 STEEL REINFORCING BARS SHALL BE MAINTAINED UNIFORMELY FOR THE ENTIRE LENGTH OF THE ANCHORAGE(S) EXCEPT AT EACH END WHERE THE FIRST AND LAST Y401 BAR SHALL BE 4 INCHES FROM THE END OF THE END ANCHORAGE OR EXPANSION JOINT.

THE UNIT PRICE BID FOR EACH AS PER PLAN END ANCHORAGE SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE AND WILL BE PAID FOR PER EACH FOR THE APPLICABLE ITEM LISTED BELOW:

ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1, AS PER PLAN
ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C1, AS PER PLAN
ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN

GENERAL NOTES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER BER
REVIEWER VDK 08/09/23
PROJECT ID 76779
SHEET P.0046 TOTAL P.1587

CUY-90-6.69

MODEL: Sheet 2 PAPERSIZE: 34x22 (in.) DATE: 4/28/2025 TIME: 9:18:43 AM USER: KMorton
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Roadway\Sheets\76779_GN001.dgn

MANHOLES WITHIN PAVEMENT AND PAVED SHOULDERS

WHERE THE PLANS INDICATE THAT A PROPOSED MANHOLE BE PLACED WITHIN THE PAVEMENT LIMITS EXCLUDING MANHOLES INDICATED FOR BOLTED LIDS, THE TOP OF CASTING ELEVATION SHALL BE SET AT THE TOP OF THE COMPACTED ITEM 304 - AGGREGATE BASE. THE LID SHALL BE SOLID WITHOUT HOLES. ONCE EACH MANHOLE IS SET IN PLACE AND PRIOR TO PAVING, THE CONTRACTOR SHALL SURVEY THE CENTER OF THE LID OF EACH BURIED MANHOLE AND FURNISH A LIST OF THE PROJECT GPS COORDINATES (EASTING, NORTHING) TO THE ENGINEER. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE AND WILL BE MADE AT THE UNIT PRICE BID FOR ITEM 611 - MANHOLE, NO. 3, AS PER PLAN.

THE FOLLOWING IS A LIST OF LOCATIONS WHERE BURIED MANHOLES ARE PROPOSED, STATION/OFFSETS SHOWN ARE TO THE CENTER OF THE MANHOLE:

STR. NO.	ALIGNMENT	STATION	OFFSET	SIDE	NORTHING	EASTING	ELEVATION
D64	IR 90	537+48.00	5'	RT			
D26	IR 90	542+75.00	6'	RT			
D31	IR 90	543+25.25	99.25'	LT			
D32	IR 90	543+75.00	94.5'	LT			
D47	RAMP HB	39+85.00	26'	RT			
D29	RAMP HB	42+73.50	2.75'	LT			
D118	IR 90	571+58.00	12'	RT			
D116	IR 90	573+57.00	12'	RT			
D132	IR 90	583+51.00	66'	LT			
D141	IR 90	585+25.00	18'	RT			
D145	IR 90	587+40.00	18'	RT			
D148	IR 90	590+00.00	18'	RT			
D151	IR 90	590+00.00	68'	RT			
D188	IR 90	611+75.00	18'	RT			
D196	IR 90	616+36.00	18'	RT			
D212	IR 90	618+13.00	18'	RT			
D218A	IR 90	620+00.00	16.5'	RT			
D219	IR 90	621+56.00	16'	RT			
D828	IR 90	745+05.00	87'	LT			
D847	RAMP 177-9	36+60.00	2'	RT			

R10

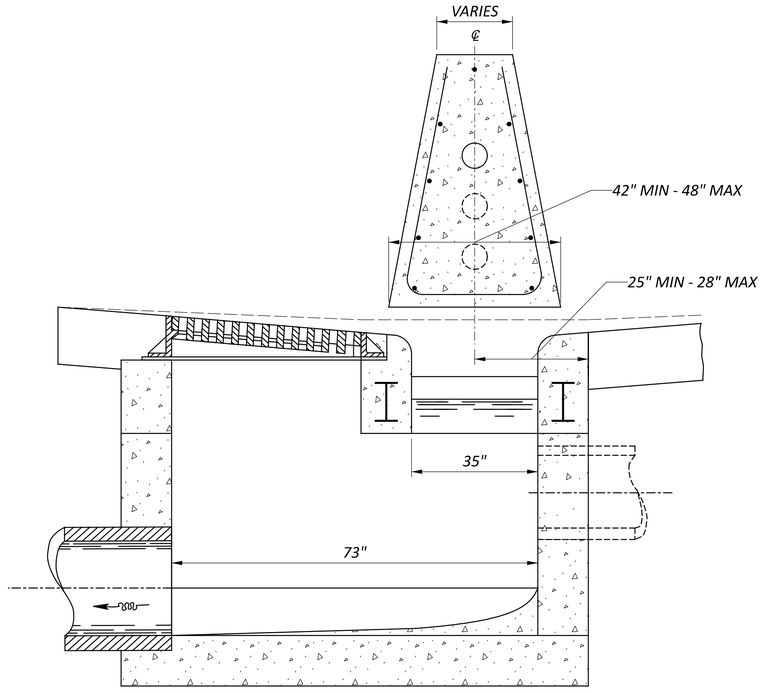
R8

R4

ITEM 611 - INLET, NO. 3C, AS PER PLAN

THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED INLET PER STANDARD CONSTRUCTION DRAWING I-3C, I-3C1 WITH THE EXCEPTION TO THE DIMENSIONS BELOW.

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS REQUIRED TO CONSTRUCT THE PROPOSED INLET SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 611 - INLET, NO. 3C, AS PER PLAN.



GENERAL NOTES

CUY-90-6.69

MODEL: Sheet 4A PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 6:09:44 PM USER: kmorton
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Roadway\Sheets\76779_GN001.dgn

DESIGN AGENCY
STRUCTUREPOINT LLC

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0048A TOTAL P.1587

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	45	46	48	51	332	337	338	340	341	346	01/IMS/04	02/IMS/13	03/IMS/13						
																		ROADWAY	
	LS										LS			201	11000	LS		CLEARING AND GRUBBING	
					420,404						420,404			202	23001	420,404	SY	PAVEMENT REMOVED, AS PER PLAN	P.0046
							6,343				6,343			202	30000	6,343	SF	WALK REMOVED	
					37,701						37,701			202	30700	37,701	FT	CONCRETE BARRIER REMOVED	
					2,234						2,234			202	30800	2,234	SY	TRAFFIC ISLAND REMOVED	
					54,446						54,446			202	32000	54,446	FT	CURB REMOVED	
					204						204			202	32800	204	SY	CONCRETE SLOPE PROTECTION REMOVED	
				238						8,260	8,498			202	35100	8,498	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
										9,500	9,500			202	35200	9,500	FT	PIPE REMOVED, OVER 24" DIAMETER	
					13,026.5						13,026.5			202	38000	13,026.5	FT	GUARDRAIL REMOVED	
					39						39			202	42010	39	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
					25						25			202	42040	25	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
					34						34			202	47000	34	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
					2						2			202	47800	2	EACH	IMPACT ATTENUATOR REMOVED	
										37	37			202	58000	37	EACH	MANHOLE REMOVED	
										101	101			202	58100	101	EACH	CATCH BASIN REMOVED	
										150	150			202	58200	150	EACH	INLET REMOVED	
										5,033	5,033			SPECIAL	20270000	5,033	FT	FILL AND PLUG EXISTING CONDUIT, 15"	P.0048
										950	950			SPECIAL	20270000	950	FT	FILL AND PLUG EXISTING CONDUIT, 18"	P.0048
										906	906			SPECIAL	20270000	906	FT	FILL AND PLUG EXISTING CONDUIT, 21"	P.0048
										1,058	1,058			SPECIAL	20270000	1,058	FT	FILL AND PLUG EXISTING CONDUIT, 24"	P.0048
										247	247			SPECIAL	20270000	247	FT	FILL AND PLUG EXISTING CONDUIT, 30"	P.0048
										575	575			SPECIAL	20270000	575	FT	FILL AND PLUG EXISTING CONDUIT, 36"	P.0048
										670	670			SPECIAL	20270000	670	FT	FILL AND PLUG EXISTING CONDUIT, 42"	P.0048
										773	773			SPECIAL	20270000	773	FT	FILL AND PLUG EXISTING CONDUIT, 48"	P.0048
										2,278	2,278			SPECIAL	20270000	2,278	FT	FILL AND PLUG EXISTING CONDUIT, 54"	P.0048
										2,744	2,744			SPECIAL	20270000	2,744	FT	FILL AND PLUG EXISTING CONDUIT, 60"	P.0048
			500							145	645			SPECIAL	20270110	645	FT	PIPE CLEANOUT, 24" AND UNDER	P.0048
			500							190	690			SPECIAL	20270120	690	FT	PIPE CLEANOUT, 27" TO 48"	P.0048
			500								500			SPECIAL	20270130	500	FT	PIPE CLEANOUT OVER 48"	P.0048
							41,942				41,942			202	75000	41,942	FT	FENCE REMOVED	
											LS			202	98000	LS		REMOVAL MISC.:TRAFFIC MONITORING EQUIPMENT	P.1268
							267,453				267,453			203	10001	267,453	CY	EXCAVATION, AS PER PLAN	P.0046
							10,153				10,153			203	20001	10,153	CY	EMBANKMENT, AS PER PLAN	P.0046
		24									24			203	98600	24	EACH	ROADWAY, MISC.:TEST HOLE	P.0046
37,166											37,166			204	13001	37,166	CY	EXCAVATION OF SUBGRADE, AS PER PLAN	P.0046
		71									71			204	45000	71	HOUR	PROOF ROLLING	
5,786											5,786			206	10500	5,786	TON	CEMENT	
221,079											221,079			206	11000	221,079	SY	CURING COAT	
204,209											204,209			206	15010	204,209	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP	
16,870											16,870			206	15020	16,870	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
		LS									LS			206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
						0.25					0.25			209	15051	0.25	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	P.0050
						20,271					20,271			606	15051	20,271	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	P.0046
						125					125			606	15151	125	FT	GUARDRAIL, TYPE MGS HALF POST SPACING, AS PER PLAN	P.0046
						62.5					62.5			606	15251	62.5	FT	GUARDRAIL, TYPE MGS QUARTER POST SPACING, AS PER PLAN	P.0046
						57					57			606	26150	57	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
						35					35			606	26550	35	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
						43					43			606	35002	43	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
						20					20			606	35102	20	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
							41,913				41,913			607	23000	41,913	FT	FENCE, TYPE CLT	
							41,913				41,913			607	70000	41,913	FT	FENCELINE SEEDING AND MULCHING	

GENERAL SUMMARY

DESIGN AGENCY: AMERICAN STRUCTUREPOINT INC.

DESIGNER: BER

REVIEWER: VDK 08/09/23

PROJECT ID: 76779

SHEET: P.0316 TOTAL: P.1587

CUY-90-6.69

MODEL: Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 4/28/2026 TIME: 12:07:02 AM USER: sstelma
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Roadway\Sheets\76779_GG001.dgn

SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
66	346	347									01/IMS/04	02/IMS/13	03/IMS/13						
																		DRAINAGE CONT.	
	211										211			611	96601	211	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 42" TYPE C	P.0049
	156										156			611	96601	156	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE B	P.0049
	181										181			611	96601	181	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 48" TYPE C	P.0049
	147										147			611	96601	147	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 54" TYPE B	P.0049
	155										155			611	96601	155	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 60" TYPE B	P.0049
	703										703			611	96601	703	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (2), 66" TYPE B	P.0049
	24										24			611	97400	24	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE B, ROCK CUT	P.0049
		36									36			611	97400	36	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0049
		10,283									10,283			611	97400	10,283	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,532									1,532			611	97400	1,532	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	P.0049
		85									85			611	97400	85	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	P.0049
		2,523									2,523			611	97400	2,523	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0049
		993									993			611	97400	993	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0049
		1,408									1,408			611	97400	1,408	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0049
		229									229			611	97400	229	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0049
		183									183			611	97400	183	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0049
		1,530									1,530			611	97400	1,530	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	P.0049
		248									248			611	97400	248	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	P.0049
		332									332			611	97400	332	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT	P.0049
		263									263			611	97400	263	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	P.0049
		788									788			611	97400	788	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0049
		2,413									2,413			611	97400	2,413	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0049
		380									380			611	97400	380	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0049
		399									399			611	97400	399	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0049
		863									863			611	97400	863	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0049
		209									209			611	97400	209	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE C, ROCK CUT	P.0049
		1,631									1,631			611	97400	1,631	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0049
		174									174			611	97400	174	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0049
		41									41			611	98150	41	EACH	CATCH BASIN, NO. 3	
		1									1			611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	P.0048
		16									16			611	98180	16	EACH	CATCH BASIN, NO. 3A	
		65									65			611	98300	65	EACH	CATCH BASIN, NO. 5	
		1									1			611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.0048
1											1			611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN (2)	P.0063
		7									7			611	98370	7	EACH	CATCH BASIN, NO. 6	
1											1			611	98371	1	EACH	CATCH BASIN, NO. 6, AS PER PLAN	P.0063
		1									1			611	98510	1	EACH	CATCH BASIN, NO. 2-3	
		1									1			611	98690	1	EACH	CATCH BASIN, MISC.: CITY OF CLEVELAND CB-1 CATCH BASIN	P.0048
		1									1			611	98811	1	EACH	INLET, NO. 3C, AS PER PLAN	P.0048A
		6									6			611	98820	6	EACH	INLET, NO. 3D	
		47									47			611	98840	47	EACH	INLET, NO. 2-A-6	
1											1			611	98841	1	EACH	INLET, NO. 2-A-6, AS PER PLAN	P.0063
		35									35			611	98850	35	EACH	INLET, NO. 2-A-8	
		25									25			611	98860	25	EACH	INLET, NO. 2-A-10	
		10									10			611	98870	10	EACH	INLET, NO. 2-A-12	
		8									8			611	98880	8	EACH	INLET, NO. 2-A-14	
		2									2			611	98890	2	EACH	INLET, NO. 2-A-16	
		1									1			611	99000	1	EACH	INLET, NO. 2-A-18	
		17									17			611	99100	17	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
		7									7			611	99110	7	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
		93									93			611	99574	93	EACH	MANHOLE, NO. 3	
		20									20			611	99575	20	EACH	MANHOLE, NO. 3, AS PER PLAN	P.0048A
		1									1			611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN (2)	P.0048
4											4			611	99575	4	EACH	MANHOLE, NO. 3, AS PER PLAN (3)	P.0063
		2									2			611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	
		1									1			611	99690	1	EACH	MANHOLE, MISC.: MH-3 MODIFIED	P.0049

GENERAL SUMMARY

CUY-90-6.69

MODEL: Sheet 4 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 6:08:25 PM USER: kmorton
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Roadway\Sheets\76779_GG001.dgn

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER BER

REVIEWER VDK 08/09/23

PROJECT ID 76779

SHEET P.0319 TOTAL P.1587

SHEET NO.	LOCATION		203 EXCAVATION, AS PER PLAN CY	203 EMBANKMENT, AS PER PLAN CY		659 SEEDING AND MULCHING, CLASS 2 SY	659 SEEDING AND MULCHING, CLASS 3A SY	659 SEEDING AND MULCHING, CLASS 3B SY										
	IR 90		241915	5660		100021	11768	5884										
	RAMP HA		963	128		568	211	185										
	RAMP HB		1051	89		695												
	RAMP MC		605	65		309	263	59										
	RAMP MD		1858	97		257	216	971										
	RAMP ME		673	63		6		686										
	RAMP MF		1916	88		364	271	1022										
	RAMP W1		915	102		778												
	RAMP W2		1589	63		431		909										
	RAMP W1A		355	190		338		569										
	RAMP W2A		675	37		282	153											
	RAMP 104-3		628	169		1239	355											
	RAMP 104-4		2685	2570		216	2057	186										
	RAMP 117-5		921	90		1569	185	93										
	RAMP 117-7		979	74		1649	194	97										
	RAMP 117-8		763	64		1341	158	79										
	RAMP 117-9		2206			3613	426	213										
	RAMP 117-11		2626	55		5151	607	304										
	RAMP 117-12		2775	12		3719	438	219										
	RAMP W13		218	531		1473	174	87										
	RAMP W14		1137	6		2060	243	122										
	TOTALS CARRIED TO GENERAL SUMMARY		267,453	10,153		126,079	17,719	11,685										

EARTHWORK ESTIMATED QUANTITIES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0341 | TOTAL P.1587

CUY-90-6.69

EARTHWORK QUANTITIES IR 90				
STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
352+73.44	0		0	
353+23.44	103	0	0	0
353+50.00	112	106	0	0
354+00.00	121	216	0	0
528+50.00	135	141	0	0
529+00.00	151	265	0	0
529+50.00	170	298	0	0
530+00.00	197	340	0	0
530+50.00	198	366	0	0
531+00.00	242	407	0	0
531+50.00	250	455	0	0
532+00.00	248	462	0	0
532+50.00	237	449	0	0
533+00.00	238	440	0	0
533+50.00	227	430	0	0
534+00.00	204	399	0	0
534+50.00	185	360	0	0
535+00.00	188	345	0	0
535+50.00	192	352	0	0
536+00.00	162	329	0	0
536+50.00	159	298	0	0
537+00.00	160	296	0	0
537+50.00	174	309	0	0
538+00.00	189	336	0	0
538+50.00	190	351	0	0
539+00.00	183	346	0	0
539+50.00	177	334	0	0
540+00.00	154	306	0	0
540+50.00	190	319	0	0
541+00.00	185	347	0	0
541+50.00	196	353	0	0
542+00.00	208	374	0	0
542+50.00	194	372	0	0
543+00.00	174	341	0	0
543+50.00	228	372	0	0
544+00.00	215	410	0	0
544+50.00	203	388	0	0
545+00.00	196	370	0	0
545+50.00	186	354	0	0
546+00.00	205	362	0	0
546+50.00	193	369	0	0
547+00.00	232	394	0	0
547+50.00	251	448	0	0
548+00.00	303	513	0	0
548+50.00	297	556	0	0
549+00.00	312	564	0	0
549+50.00	275	543	0	0
550+00.00	284	517	0	0
550+50.00	282	524	0	0
551+00.00	282	522	0	0
551+50.00	272	512	0	0
552+00.00	275	506	0	0
552+50.00	283	517	0	0
553+00.00	270	512	0	0
553+50.00	258	489	0	0
554+00.00	208	431	0	0
554+50.00	208	385	0	0
555+00.00	194	372	0	0
555+50.00	189	354	0	0
556+00.00	178	339	0	0
556+50.00	191	341	0	0
557+00.00	193	356	0	0
557+50.00	190	355	0	0
558+00.00	185	348	0	0
558+50.00	174	332	0	0
559+00.00	172	320	0	0
559+50.00	159	306	0	0
560+00.00	147	283	0	0
560+50.00	145	270	0	0
561+00.00	160	283	0	0
561+50.00	172	308	0	0
TOTALS TO LAST TABLE		25,965		0

EARTHWORK QUANTITIES IR 90				
STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
562+00.00	184	330	0	0
562+50.00	178	335	0	0
563+00.00	176	328	0	0
563+50.00	174	324	0	0
564+00.00	189	335	0	0
564+50.00	208	368	0	0
565+00.00	218	395	0	0
565+50.00	231	416	0	0
566+00.00	231	427	0	0
566+50.00	240	436	0	0
567+00.00	221	427	0	0
567+50.00	318	499	0	0
568+00.00	344	612	0	0
568+50.00	401	690	0	0
569+00.00	382	725	0	0
569+50.00	420	742	0	0
570+00.00	442	798	0	0
570+50.00	484	858	0	0
571+00.00	544	952	0	0
571+50.00	620	1078	0	0
572+00.00	336	885	0	0
572+50.00	437	715	0	0
573+00.00	404	778	0	0
573+50.00	341	690	0	0
574+00.00	205	506	0	0
574+50.00	2	191	0	0
574+65.73	0	0	56	16
582+73.21	0	0	595	
583+00.00	139	69	0	295
583+50.00	233	344	0	0
584+00.00	344	534	0	0
584+50.00	130	439	0	0
585+00.00	105	218	0	0
585+50.00	99	188	0	0
586+00.00	106	189	0	0
586+50.00	85	177	0	0
587+00.00	89	161	0	0
587+50.00	99	174	0	0
588+00.00	146	227	0	0
588+50.00	196	316	0	0
589+00.00	281	441	0	0
589+50.00	339	574	0	0
590+00.00	427	710	0	0
590+50.00	425	789	2	2
591+00.00	376	742	0	2
591+50.00	369	690	0	0
592+00.00	340	657	0	0
592+50.00	303	595	0	0
593+00.00	247	509	0	0
593+50.00	166	383	0	0
594+00.00	136	280	0	0
594+50.00	93	212	0	0
595+00.00	95	174	0	0
595+50.00	92	173	0	0
596+00.00	111	188	0	0
596+50.00	150	242	0	0
597+00.00	173	299	0	0
597+50.00	188	334	0	0
598+00.00	210	368	0	0
598+50.00	216	394	0	0
599+00.00	209	394	0	0
599+50.00	197	376	0	0
600+00.00	202	369	0	0
600+50.00	208	379	0	0
601+00.00	238	0	1	1
601+50.00	436	624	0	1
602+00.00	523	888	0	0
602+50.00	553	997	0	0
603+00.00	603	1070	0	0
TOTALS TO LAST TABLE		31,727		317

EARTHWORK QUANTITIES IR 90				
STATION	CUT AREA SF	CUT VOLUMN CY	FILL AREA SF	FILL VOLUMN CY
603+50.00	626	1138	0	0
604+00.00	652	1184	0	0
604+50.00	614	1172	0	0
605+00.00	577	1103	0	0
605+50.00	489	987	0	0
606+00.00	402	825	0	0
606+50.00	342	689	0	0
607+00.00	279	575	0	0
607+50.00	215	457	0	0
608+00.00	175	361	0	0
608+50.00	135	287	0	0
609+00.00	107	224	1	1
609+50.00	89	182	0	1
610+00.00	90	166	4	4
610+50.00	113	188	2	6
611+00.00	117	213	0	2
611+50.00	121	221	0	0
612+00.00	184	282	0	0
612+50.00	260	411	0	0
613+00.00	501	706	0	0
613+50.00	398	832	0	0
614+00.00	395	734	0	0
614+50.00	460	791	0	0
615+00.00	475	866	0	0
615+50.00	490	894	0	0
616+00.00	468	887	0	0
616+50.00	408	811	0	0
617+00.00	360	711	0	0
617+50.00	363	669	0	0
616+00.00	379	711	0	0
616+50.00	338	663	0	0
617+00.00	340	628	0	0
617+50.00	346	635	0	0
618+00.00	348	643	0	0
618+50.00	349	646	0	0
619+00.00	342	640	0	0
619+50.00	334	625	0	0
620+00.00	332	616	0	0
620+50.00	358	639	0	0
621+00.00	309	618	0	0
621+50.00	316	579	0	0
622+00.00	262	536	0	0
622+50.00	210	437	0	0
623+00.00	155	338	0	0
623+50.00	116	251	0	0
624+00.00	97	197	0	0
624+50.00	87	170	0	0
625+00.00	88	161	0	0
625+50.00	93	167	0	0
626+00.00	97	176	0	0
626+50.00	105	187	0	0
627+00.00	109	198	0	0
627+50.00	113	206	0	0
628+00.00	94	191	0	0
628+50.00	97	176	0	0
629+00.00	144	223	0	0
629+50.00	83	210	0	0
630+00.00	100	170	0	0
630+50.00	112	197	0	0
631+00.00	124	219	0	0
631+50.00	138	242	0	0
632+00.00	141	258	0	0
632+50.00	147	267	0	0
633+00.00	146	271	0	0
TOTALS FROM TABLE 1				
TOTALS FROM TABLE 2				
TOTALS FROM TABLE 3				
TOTALS TO LAST TABLE		31,658		14

EARTHWORK QUANTITIES IR 90 WB				
STATION	CUT AREA SF	CUT VOLUMN CY	FILL AREA SF	FILL VOLUMN CY
633+50.00	51	135	0	0
634+00.00	51	95	0	0
634+50.00	57	100	0	0
635+00.00	95	140	0	0
635+50.00	100	180	0	0
636+00.00	116	200	0	0
636+50.00	55	158	0	0
637+00.00	66	112	0	0
637+50.00	77	133	0	0
638+00.00	85	151	0	0
638+50.00	90	162	0	0
639+00.00	84	161	0	0
639+02.72	85	6	0	0
639+50.00	52	122	0	0
640+00.00	228	260	0	0
TOTALS THIS TABLE		2,115		0
TOTALS FROM TABLE 1		25,965		0
TOTALS FROM TABLE 2		31,727		317
TOTALS FROM TABLE 3		31,658		14
TOTALS CARRIED TO SHEET 344		91,466		332

EARTHWORK CALCULATIONS

CUY-90-6.69

MODEL: Sheet 1 PAPERSIZE: 17x11 (in.) DATE: 4/28/2025 TIME: 12:15:07 AM USER: sstelma
pw:\structurepoint-pw.bentley.com:structurepoint-pw-04\Documents\Projects\202006276779\400-Engineering\Roadway\Sheets\76779_GEO08.dgn

DESIGN AGENCY
STRUCTUREPOINT INC.

DESIGNER BER

REVIEWER VDK 08/09/23

PROJECT ID 76779

SHEET P.0342 TOTAL P.1587

EARTHWORK CALCULATIONS

EARTHWORK QUANTITIES
IR 90 WB

STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
40+00.48	47.984	0	0	
40+50.00	56	96	0	0
41+00.00	68	115	0	0
41+50.00	98	153	0	0
42+00.00	140	220	0	0
42+50.00	184	300	0	0
43+00.00	229	382	0	0
43+50.00	204	401	0	0
44+00.00	251	422	0	0
44+50.00	285	496	0	0
45+00.00	285	528	0	0
45+50.00	288	531	0	0
46+00.00	275	521	0	0
46+50.00	292	525	0	0
47+00.00	314	561	0	0
47+50.00	384	646	0	0
48+00.00	421	746	0	0
48+50.00	397	757	0	0
49+00.00	261	609	0	0
49+50.00	249	473	0	0
50+00.00	275	486	0	0
50+50.00	303	535	0	0
51+00.00	335	591	0	0
51+50.00	362	646	0	0
52+00.00	323	635	0	0
52+50.00	277	556	0	0
53+00.00	302	537	0	0
53+50.00	372	625	0	0
54+00.00	419	733	0	0
54+45.37	525	792	0	0
54+50.00	816	70	0	0
55+00.00	921	1608	0	0
55+50.00	966	1748	0	0
56+00.00	981	1803	0	0
56+50.00	979	1815	0	0
57+00.00	951	1788	0	0
57+50.00	958	1768	0	0
58+00.00	947	1763	0	0
58+50.00	919	1727	0	0
59+00.00	863	1650	0	0
59+50.00	695	1442	0	0
60+00.00	551	1153	0	0
60+50.00	530	1001	0	0
61+00.00	505	959	0	0
61+50.00	484	916	0	0
62+00.00	455	869	0	0
62+50.00	441	829	0	0
63+00.00	458	832	0	0
63+50.00	663	1039	0	0
64+00.00	731	1291	0	0
64+50.00	718	1342	2	2
65+00.00	676	1291	1	3
65+50.00	575	1158	0	1
66+00.00	524	1018	4	4
66+50.00	492	940	4	7
67+00.00	431	855	4	7
667+50.00	113	0	9	12
668+00.00	108	204	5	13
668+50.00	108	200	0	5
669+00.00	113	205	0	0
669+50.00	122	218	0	0
670+00.00	120	224	0	0
670+50.00	109	211	0	0
671+00.00	110	203	0	0
671+50.00	104	199	0	0
672+13.34	0	136	106	124
TOTALS TO LAST TABLE		49,087		178

EARTHWORK QUANTITIES
IR 90 WB

STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
674+06.84	4	0	102	
674+50.00	69	49	7	87
675+00.00	77	135	0	6
675+50.00	88	153	0	0
676+00.00	93	167	0	0
676+50.00	97	176	0	0
677+00.00	99	181	0	0
677+50.00	105	0	0	0
678+00.00	106	195	0	0
678+50.00	108	198	0	0
679+00.00	109	201	0	0
679+50.00	107	200	0	0
680+00.00	108	199	0	0
680+50.00	108	200	0	0
681+00.00	99	192	0	0
681+50.00	97	182	0	0
682+00.00	125	205	0	0
682+50.00	122	228	0	0
683+00.00	111	216	0	0
683+50.00	104	199	0	0
684+00.00	98	187	147	136
684+61.77	55	138	855	1146
691+21.31	65	0	90	
692+00.00	66	196	10	146
692+50.00	68	124	5	14
693+00.00	69	127	11	15
693+50.00	66	126	1	11
694+00.00	57	114	0	1
694+50.00	77	124	0	0
695+29.03	8	134	89	130
696+17.61	10	0	15	
696+50.00	41	27	12	16
697+00.00	38	74	4	15
697+50.00	28	61	16	19
698+00.00	19	43	14	28
698+50.00	19	35	17	29
699+00.00	22	38	26	40
699+50.00	20	40	28	50
700+00.00	15	33	36	59
700+50.00	10	23	35	66
701+00.00	28	35	33	63
701+50.00	93	112	38	66
702+00.00	100	178	31	64
702+50.00	100	185	28	55
703+00.00	99	185	28	52
703+50.00	94	179	30	54
704+00.00	99	179	30	56
704+50.00	98	183	28	54
705+00.00	28	117	27	51
705+50.00	17	42	24	47
706+00.00	24	38	18	39
706+50.00	24	44	15	31
707+00.00	32	52	10	23
707+50.00	43	69	3	12
708+00.00	52	88	0	3
708+50.00	61	105	0	0
709+00.00	65	116	0	0
709+50.00	65	120	0	0
710+00.00	68	123	0	0
710+50.00	70	128	0	0
711+00.00	66	127	0	0
711+50.00	69	125	0	0
712+00.00	76	135	0	0
712+50.00	73	138	0	0
713+00.00	70	132	0	0
713+50.00	67	127	0	0
714+00.00	67	124	0	0
TOTALS TO LAST TABLE		8,108		2,684

EARTHWORK QUANTITIES
IR 90 WB

STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
714+50.00	67	124	0	0
715+00.00	66	123	0	0
715+50.00	64	120	0	0
716+00.00	66	120	0	0
716+50.00	66	122	0	0
717+00.00	69	125	0	0
717+50.00	79	137	0	0
718+00.00	70	138	0	0
718+50.00	65	125	0	0
719+00.00	75	130	0	0
719+50.00	77	140	0	0
720+00.00	75	140	0	0
720+50.00	80	143	0	0
721+00.00	80	148	0	0
721+50.00	76	145	0	0
722+00.00	78	143	0	0
722+50.00	73	140	0	0
723+00.00	69	132	0	0
723+50.00	72	131	0	0
724+00.00	81	142	0	0
724+50.00	90	159	0	0
725+00.00	93	169	0	0
725+50.00	87	166	0	0
726+00.00	87	161	0	0
726+50.00	79	154	1	1
727+00.00	116	181	2	3
727+50.00	78	179	0	2
728+00.00	79	145	0	0
728+50.00	89	155	0	0
729+00.00	94	169	0	0
729+50.00	101	180	0	0
730+00.00	105	190	0	0
730+50.00	125	213	0	0
731+00.00	215	315	0	0
731+50.00	239	421	0	0
732+00.00	271	472	0	0
732+50.00	276	507	0	0
733+00.00	302	535	0	0
733+50.00	318	574	0	0
734+00.00	359	627	0	0
734+50.00	311	620	0	0
735+00.00	265	533	0	0
735+50.00	250	477	0	0
736+00.00	171	390	0	0
736+50.00	113	263	0	0
737+00.00	118	214	0	0
737+50.00	101	202	0	0
738+00.00	94	181	0	0
738+50.00	84	165	0	0
739+00.00	81	153	0	0
739+50.00	77	147	0	0
740+00.00	69	135	0	0
740+50.00	66	125	0	0
741+00.00	51	108	0	0
741+50.00	52	95	0	0
742+00.00	56	100	0	0
742+50.00	58	106	0	0
743+00.00	61	110	0	0
743+50.00	85	135	0	0
744+00.00	259	318	0	0
744+50.00	125	356	0	0
745+00.00	111	219	0	0
745+50.00	103	198	0	0
746+00.00	106	193	0	0
TOTALS TO LAST TABLE		13,885		6

EARTHWORK QUANTITIES
IR 90 WB

STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
746+50.00	107	197	0	0
747+00.00	111	202	0	0
747+50.00	93	189	0	0
748+00.00	157	231	0	0
748+50.00	170	302	0	0
749+00.00	174	318	0	0
749+50.00	183	330	0	0
750+00.00	232	384	0	0
750+50.00	117	323	0	0
751+00.00	166	262	0	0
751+50.00	156	298	0	0
752+00.00	159	292	0	0
752+50.00	140	277	0	0
753+00.00	83	206	0	0
753+50.00	75	146	0	0
754+00.00	169	226	0	0
754+50.00	85	149	0	0
755+00.00	104	175	0	0
755+50.00	86	176	0	0
756+00.00	81	155	0	0
756+50.00	161	224	0	0
757+00.00	153	291	0	0
757+50.00	136	268	1	1
758+00.00	131	247	2	3
758+50.00	86	201	3	5
759+00.00	91	164	5	7
759+50.00	153	226	3	7
760+00.00	144	275	8	10
760+50.00	142	264	7	14
761+00.00	101	224	7	13
761+50.00	51	140	8	14
762+00.00	147	184	5	12
762+50.00	65	197	4	8
763+00.00	71	126	0	4
763+50.00	87	146	0	0
764+00.00	87	161	0	0
764+50.00	81	155	0	0
765+00.00	76	145	6	6
765+50.00	80	144	0	6
766+00.00	85	153	0	0
766+50.00	87	159	0	0
767+00.00	87	161	0	0
767+50.00	89	163	0	0
768+00.00	95	170	0	0
768+50.00	91	172	0	0
768+85.00	93	119	0	0
TOTALS THIS TABLE		9,720		110
TOTALS FROM TABLE 1		49,087		178
TOTALS FROM TABLE 2		8,108		2,684
TOTALS FROM TABLE 3		13,885		6
TOTALS CARRIED TO SHEET 344		80,800		2,978

CUY-90-6.69

MODEL: Sheet 2 PAPERSIZE: 17x11 (in.) DATE: 4/28/2025 TIME: 12:17:29 AM USER: sstelma
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-04\Documents\Projects\202006276779\400-Engineering\Roadway\Sheets\76779_EQ0006.dgn

DESIGN AGENCY
STRUCTUREPOINT LLC
DESIGNER BER
REVIEWER VDK 08/09/23
PROJECT ID 76779
SHEET P.0343 TOTAL P.1587

EARTHWORK QUANTITIES

IR 90 EB

STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
33+29.05	75	0	0	
33+50.00	73	57	0	0
34+00.00	68	130	0	0
34+50.00	64	122	0	0
35+00.00	65	119	0	0
35+50.00	67	122	0	0
36+00.00	67	124	0	0
36+50.00	70	127	0	0
37+00.00	57	118	0	0
37+50.00	64	111	0	0
38+00.00	60	115	0	0
38+50.00	45	98	0	0
39+00.00	30	70	0	0
39+50.00	57	81	0	0
40+00.00	59	108	0	0
40+50.00	57	107	0	0
41+00.00	54	103	0	0
41+50.00	58	104	0	0
42+00.00	68	116	0	0
42+50.00	100	156	0	0
43+00.00	147	229	0	0
43+50.00	198	319	0	0
44+00.00	289	451	0	0
44+50.00	308	553	0	0
45+00.00	330	590	0	0
45+50.00	301	584	0	0
46+00.00	297	553	0	0
46+50.00	266	520	0	0
47+00.00	247	475	0	0
47+50.00	223	435	0	0
48+00.00	186	379	0	0
48+50.00	164	324	0	0
49+00.00	123	266	0	0
49+50.00	101	208	0	0
50+00.00	80	168	0	0
50+50.00	82	150	0	0
51+00.00	104	171	0	0
51+50.00	92	181	0	0
52+00.00	105	182	0	0
52+50.00	103	192	0	0
53+00.00	86	175	0	0
53+50.00	82	156	0	0
54+00.00	83	153	0	0
54+50.00	443	488	0	0
55+00.00	488	862	0	0
55+50.00	504	919	0	0
56+00.00	509	938	0	0
56+50.00	516	949	0	0
57+00.00	497	938	0	0
57+50.00	524	945	0	0
58+00.00	505	952	0	0
58+50.00	489	920	0	0
59+00.00	453	873	0	0
59+50.00	370	762	0	0
60+00.00	275	598	0	0
60+50.00	248	485	0	0
61+00.00	267	477	0	0
61+50.00	290	516	0	0
62+00.00	280	529	0	0
62+50.00	261	501	0	0
63+00.00	422	632	0	0
63+50.00	479	834	0	0
64+00.00	473	882	0	0
64+50.00	450	855	0	0
65+00.00	336	728	0	0
65+50.00	230	524	0	0
66+00.00	186	385	0	0
66+50.00	175	334	0	0
67+00.00	199	346	0	0
67+50.00	297	459	0	0
68+00.00	303	555	0	0
TOTALS TO LAST TABLE	28,695		-	0

EARTHWORK QUANTITIES

IR 90 EB

STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
68+50.00	302	560	0	
69+00.00	297	555	0	0
69+50.00	297	551	0	0
70+00.00	291	545	0	0
70+50.00	282	531	0	0
71+00.00	278	519	0	0
71+50.00	270	508	0	0
72+00.00	150	510	64	59
72+17.61	5	151	312	123
74+12.15	2		261	
74+50.00	238	2826	1	184
75+00.00	252	454	1	2
75+50.00	245	460	1	2
76+00.00	238	447	0	1
76+50.00	236	439	0	0
76+98.67	239	428	0	0
677+50.00	60	0	0	0
678+00.00	51	102	2	2
678+50.00	46	90	2	4
679+00.00	42	82	2	4
679+50.00	39	75	3	5
680+00.00	36	69	4	6
680+50.00	35	66	3	6
681+00.00	66	93	4	6
681+50.00	89	143	0	4
682+00.00	113	187	1	1
682+50.00	123	219	0	1
683+00.00	93	200	0	0
683+50.00	103	181	0	0
684+00.00	91	180	0	0
684+57.56	75	182	1153	1229
691+17.30	98	0	527	
691+50.00	46	82	0	319
692+00.00	39	79	0	0
692+50.00	46	79	0	0
693+00.00	57	95	0	0
693+50.00	53	101	0	0
694+00.00	57	102	5	5
694+50.00	70	118	1	6
695+00.00	27	90	0	1
695+33.09	17	27	1	1
696+26.89	22	0	46	
697+00.00	55	112	16	84
697+50.00	61	107	24	37
698+00.00	64	116	7	29
698+50.00	74	128	2	8
699+00.00	102	163	1	3
699+50.00	96	183	2	3
700+00.00	96	178	2	4
700+50.00	91	173	2	4
701+00.00	98	175	0	2
701+50.00	150	229	0	0
702+00.00	167	293	0	0
702+50.00	164	306	0	0
703+00.00	161	301	0	0
703+50.00	151	289	0	0
704+00.00	154	282	0	0
704+50.00	151	282	0	0
705+00.00	98	231	0	0
705+50.00	65	151	0	0
706+00.00	54	110	0	0
706+50.00	44	90	0	0
707+00.00	31	70	0	0
707+50.00	21	49	2	2
708+00.00	16	34	5	6
708+50.00	15	28	3	7
709+00.00	16	28	5	7
TOTALS TO LAST TABLE	16,233			2,167

EARTHWORK QUANTITIES

IR 90 EB

STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
709+50.00	13	26	5	9
710+00.00	13	24	6	10
710+50.00	12	23	8	13
711+00.00	12	22	15	21
711+50.00	12	22	9	22
712+00.00	14	24	8	16
712+50.00	16	27	6	13
713+00.00	14	27	4	9
713+50.00	16	28	2	6
714+00.00	16	30	2	4
714+50.00	20	35	1	3
715+00.00	18	35	3	4
715+50.00	82	93	1	4
716+00.00	43	116	2	3
716+50.00	30	67	2	4
717+00.00	22	48	3	5
717+50.00	29	47	6	8
718+00.00	29	53	3	8
718+50.00	33	58	0	3
719+00.00	42	70	0	0
719+50.00	44	79	1	1
720+00.00	47	84	2	3
720+50.00	40	80	4	6
721+00.00	52	86	1	5
721+50.00	63	107	0	1
722+00.00	61	114	0	0
722+50.00	64	115	0	0
723+00.00	70	125	0	0
723+50.00	69	129	0	0
724+00.00	117	172	0	0
724+50.00	68	172	0	0
725+00.00	69	128	0	0
725+50.00	80	138	0	0
726+00.00	90	157	0	0
726+50.00	94	170	0	0
727+00.00	97	178	0	0
727+50.00	98	181	0	0
728+00.00	99	182	0	0
728+50.00	111	194	0	0
729+00.00	116	210	0	0
729+50.00	127	225	0	0
730+00.00	141	248	0	0
730+50.00	191	307	0	0
731+00.00	240	399	0	0
731+50.00	299	499	0	0
732+00.00	280	536	0	0
732+50.00	328	564	0	0
733+00.00	245	531	0	0
733+50.00	245	454	0	0
734+00.00	254	463	0	0
734+50.00	272	487	0	0
735+00.00	249	482	0	0
735+50.00	240	452	0	0
736+00.00	156	366	0	0
736+50.00	157	289	0	0
737+00.00	124	260	0	0
737+50.00	105	213	0	0
738+00.00	95	185	0	0
738+50.00	82	164	0	0
739+00.00	73	143	0	0
739+50.00	73	135	0	0
740+00.00	151	207	0	0
740+50.00	8	147	0	0
741+00.00	73	75	0	0
741+50.00	72	134	0	0
742+00.00	66	128	0	0
742+50.00	61	117	1	1
743+00.00	60	112	0	1
743+50.00	79	128	0	0
744+00.00	71	139	0	0
744+50.00	62	123	0	0
TOTALS TO LAST TABLE	12,389			183

EARTHWORK QUANTITIES

IR 90 EB

STATION	CUT AREA SF	CUT VOLUME CY	FILL AREA SF	FILL VOLUME CY
745+00.00	92	142	0	0
745+50.00	89	168	0	0
746+00.00	69	147	0	0
746+50.00	88	146	0	0
747+00.00	74	150	0	0
747+50.00	94	155	0	0
748+00.00	154	229	0	0
748+50.00	183	312	0	0
749+00.00	147	306	0	0
749+50.00	156	281	0	0
750+00.00	133	268	0	0
750+50.00	109	224	0	0
751+00.00	226	310	0	0
751+50.00	154	352	0	0
752+00.00	156	287	0	0
752+50.00	143	277	0	0
753+00.00	84	210	0	0
753+50.00	84	155	0	0
754+00.00	159	225	0	0
754+50.00	93	163	0	0
755+00.00	112	190	0	0
755+50.00	98	195	0	0
756+00.00	113	195	0	0
756+50.00	197	287	0	0
757+00.00	214	380	0	0
757+50.00	217	399	0	0
758+00.00	220	405	0	0
758+50.00	183	373	0	0
759+00.00	187	343	0	0
759+50.00	232	389	0	0
760+00.00	235	433	0	0
760+50.00	233	434	0	0
761+00.00	199	400	0	0
761+50.00	148	321	0	0
762+00.00	140	267	0	0
762+50.00	143	263	0	0
763+00.00	128	251	0	0
763+50.00	128	236	0	0
764+00.00	109	219	0	0
764+50.00	103	196	0	0
765+00.00	104	192	0	0
765+50.00	106	194	0	0
766+00.00	107	197	0	0
766+50.00	105	197	0	0
767+00.00	102	192	0	0
767+50.00	103	190	0	0
768+00.00	101	188	0	0
768+50.00	94	180	0	0
768+85.00	89	118	0	0
TOTALS THIS TABLE	12,333			0
TOTALS FROM TABLE 1	28,695			0
TOTALS FROM TABLE 2	16,233			2,167
TOTALS FROM TABLE 3	12,389			183
TOTALS THIS SHEET	69,650			2,350
TOTALS FROM SHEET 342	91,466			332
TOTALS FROM SHEET 343	80,800			2,978
TOTALS CARRIED TO SHEET 341	241,916			5,660

EARTHWORK CALCULATIONS

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER BER

REVIEWER VDK 08/09/23

PROJECT ID 76779

SHEET P.0344 TOTAL P.1587

CUY-90-6.69

ESTIMATED QUANTITIES

Sheet 351	Sheet 352	Sheet 353	Sheet 354	Sheet 355	Sheet 356	Sheet 357	Sheet 358	Sheet 359	Sheet 359A	Sheet 370	ITEM	EXTENSION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
			17	19							611	97400	36	FT	CONDUIT, MISC.: 12" CONDUIT, TYPE C, ROCK CUT	P.0049
	422	1245	2738	3637	350	276	1556	59			611	97400	10,283	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE B, ROCK CUT	P.0049
	84	230	41	61	473	13	551	79			611	97400	1,532	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE C, ROCK CUT	P.0049
		28		57							611	97400	85	FT	CONDUIT, MISC.: 15" CONDUIT, TYPE F, ROCK CUT	P.0049
		91	889	1117	299		127				611	97400	2,523	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE B, ROCK CUT	P.0049
		556		61	376						611	97400	993	FT	CONDUIT, MISC.: 18" CONDUIT, TYPE C, ROCK CUT	P.0049
	135	88	268	375			542				611	97400	1,408	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE B, ROCK CUT	P.0049
		198		31							611	97400	229	FT	CONDUIT, MISC.: 24" CONDUIT, TYPE C, ROCK CUT	P.0049
	63		6				114				611	97400	183	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE B, ROCK CUT	P.0049
	109	256			1165						611	97400	1,530	FT	CONDUIT, MISC.: 30" CONDUIT, TYPE C, ROCK CUT	P.0049
			248								611	97400	248	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE B, ROCK CUT	P.0049
					332						611	97400	332	FT	CONDUIT, MISC.: 36" CONDUIT, TYPE C, ROCK CUT	P.0049
		196			67						611	97400	263	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE B, ROCK CUT	P.0049
		196			592						611	97400	788	FT	CONDUIT, MISC.: 42" CONDUIT, TYPE C, ROCK CUT	P.0049
	1959	352	102								611	97400	2,413	FT	CONDUIT, MISC.: 48" CONDUIT, TYPE B, ROCK CUT	P.0049
	380										611	97400	380	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE B, ROCK CUT	P.0049
					289	110					611	97400	399	FT	CONDUIT, MISC.: 54" CONDUIT, TYPE C, ROCK CUT	P.0049
	854					9					611	97400	863	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE B, ROCK CUT	P.0049
						209					611	97400	209	FT	CONDUIT, MISC.: 60" CONDUIT, TYPE C, ROCK CUT	P.0049
	1631										611	97400	1,631	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE B, ROCK CUT	P.0049
	174										611	97400	174	FT	CONDUIT, MISC.: 66" CONDUIT, TYPE C, ROCK CUT	P.0049
5	6	4	6	3	2	3	7	5			611	98150	41	EACH	CATCH BASIN, NO. 3	
								1			611	98151	1	EACH	CATCH BASIN, NO. 3, AS PER PLAN	P.0048
4	2	3	2	3	1		1				611	98180	16	EACH	CATCH BASIN, NO. 3A	
10	10	11	6	4	4	5	10	5			611	98300	65	EACH	CATCH BASIN, NO. 5	
					1						611	98301	1	EACH	CATCH BASIN, NO. 5, AS PER PLAN	P.0048
				1	1	2	2	1			611	98370	7	EACH	CATCH BASIN, NO. 6	
				1							611	98510	1	EACH	CATCH BASIN, NO. 2-3	
								1			611	98690	1	EACH	CATCH BASIN, MISC.:CITY OF CLEVELAND CB-1 CATCH BASIN	P.0048
5	5	3	2	2							611	99100	17	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
	1										611	98811	1	EACH	INLET, NO. 3C, AS PER PLAN	
		1	4								611	99110	7	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE C1	
		2			1	1	2				611	98820	6	EACH	INLET, NO. 3D	
1	4	18	15	1	2	4	2				611	98840	47	EACH	INLET, NO. 2-A-6	
2	1	1	9	2	6	4	3				611	98850	35	EACH	INLET, NO. 2-A-8	
1		3	1	1	8	9	2				611	98860	25	EACH	INLET, NO. 2-A-10	
	1		1	4	1	2	1				611	98870	10	EACH	INLET, NO. 2-A-12	
		2	3		1	1	1				611	98880	8	EACH	INLET, NO. 2-A-14	
		1									611	98890	2	EACH	INLET, NO. 2-A-16	
											611	99000	1	EACH	INLET, NO. 2-A-18	
12	18	8	1	3	22	15	4	1	9		611	99574	93	EACH	MANHOLE, NO. 3	
6	6	2					2		4		611	99575	20	EACH	MANHOLE, NO. 3, AS PER PLAN	P.0048A
					1						611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN (2)	P.0048
1	1										611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE	
	1										633	99690	1	EACH	MANHOLE, MISC.: MH-3 MODIFIED	P.0048
										1608	659	00300	1,608	CY	TOPSOIL	
										14216	670	00500	14,216	SY	SLOPE EROSION PROTECTION	
										11691	670	00720	11,691	SY	DITCH EROSION PROTECTION MAT, TYPE B	
										444	836	10000	444	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	

DRAINAGE SUB-SUMMARY

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

PROJECT ID
76779

SHEET P.0347 | TOTAL P.1587

CUY-90-6.69

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	611 12" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE B FT	611 15" CONDUIT, TYPE C FT	611 24" CONDUIT, TYPE C FT	611 36" CONDUIT, TYPE C FT	611 42" CONDUIT, TYPE B FT	611 42" CONDUIT, TYPE C FT	611 60" CONDUIT, TYPE B FT	611 CONDUIT, BORED OR JACKED, 15" TYPE B FT	611 18" CONDUIT, TYPE B FT	611 24" CONDUIT, TYPE B FT	611 CONDUIT, BORED OR JACKED, 24" TYPE B FT	611 CONDUIT, BORED OR JACKED, 36", TYPE B FT	611 CONDUIT, BORED OR JACKED, 36", TYPE C FT	611 CONDUIT, BORED OR JACKED, 42", TYPE B FT	611 CATCH BASIN, NO. 3 EACH	611 CATCH BASIN, NO. 3A EACH	611 CATCH BASIN, NO. 5 EACH	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1 EACH	611 INLET, NO. 2-A-6 EACH	611 INLET, NO. 2-A-8 EACH	611 INLET, NO. 2-A-10 EACH	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO.3, AS PER PLAN EACH	611 MANHOLE RECONSTRUCTED TO GRADE EACH
OUTFALL A																															
1047/1069	D2	WESTWAY DR	49+48.00	49+52.51	LT	6															1										
OUTFALL AH																															
1048/1068	D3A	HILLIARD BLVD	82+10.38	82+13.00	LT	7																							1		
1048/1068	D4	HILLIARD BLVD	82+13.00	82+32.00	LT	19																1									
OUTFALL B																															
1047/1070	D88	IR 90	530+69.00	530+69.00	LT/RT																		1								
1047/1070	D83	IR 90	530+69.00	530+69.00	RT										73		67							1							
1047/1070	D79	IR 90	530+69.00	533+50.00	RT				R5	281													1								
1048/1070	D75	IR 90	533+50.00	535+20.00	RT														170										1		
1048/1070	D71	IR 90	535+20.00	37+53.40	RT				R5	228																			1		
1047/1075	D79A	IR 90	353+30.00	530+69.00	RT				311																						1
1048/1070	D62	RAMP HA	37+53.40	37+60.00	LT/RT													58											1		
1048/1070	D57	RAMP HA	37+60.00	40+16.00	RT					254																			1		
1048/1071	D50	RAMP HA	40+16.00	542+89.00	RT							272																	1		
1048/1071	D21	IR 90	542+89.00	545+10.00	RT							221																	1		
1049/1072	D19	IR 90	545+10.00	545+54.00	RT						72																		1		
1049/1072	D18	IR 90	545+54.00	547+15.00	RT															155									1		
1049/1072	D17	IR 90	547+15.00	547+65.00	RT								44														R10		1		
1049/1072	D14	IR 90	547+65.00	551+50.00	RT								379																1		
1049/1072	D11	IR 90	551+50.00	551+91.86	RT								43																1		
1047/1075	D86	IR 90	529+87.00	530+69.00	RT		82								R8									1							R8
1047/1075	D85	IR 90	530+69.00	531+51.00	RT		82																	1							
1048/1075	D77	RAMP HB	32+51.00	533+50.00	LT			86															1								
1048/1075	D78	IR 90	533+50.00	533+50.00	RT			16															1								
1048/1075	D67	IR 90	535+40.00	535+20.00	RT			R5 27															1								
1048/1075	D72	RAMP HA	35+43.00	535+20.00	LT			40															1								
1048/1075	D73	RAMP HA	35+43.00	35+70.00	LT/RT		82															1									
1048/1075	D74	RAMP HA	35+70.00	35+75.00	RT			11															1								
1048/1075	D66	IR 90	536+65.00	537+48.00	RT		83																	1							
1048/1076	D69	IR 90	537+47.00	537+50.00	LT		9		R7					R7									1								
1048/1076	D65	IR 90	537+50.00	537+48.00	LT/RT		64														1										
1048/1076	D64	IR 90	537+48.00	37+53.40	RT									79																1	
1048/1076	D54	RAMP HA	39+68.00	40+16.00	RT			46																				1			
1048/1076	D53	RAMP HA	40+16.00	540+58.00	RT			40																					1		
1048/1076	D55	RAMP HA	40+16.00	40+16.00	RT			10													1										
1048/1076	D51	RAMP HA	40+16.00	40+16.00	RT			10															1								
1048/1076	D27	IR 90	542+00.00	542+75.00	RT		75																	1							
1048/1077	D49	RAMP HB	38+16.00	39+18.00	RT		98														1										
1048/1077	D48	RAMP HB	39+18.00	39+85.00	RT		66														1										
1048/1077	D47	RAMP HB	39+85.00	42+81.00	RT		298																							1	
1048/1077	D28	RAMP HB	42+81.00	542+75.00	RT											75										1					
1048/1077	D26	IR 90	542+75.00	542+91.00	RT											93														1	
1048/1077	D25	IR 90	542+91.00	542+89.00	RT				8																			1			
1048/1077	D22	IR 90	542+89.00	542+89.00	RT				13														1								
1048/1077	D30	RAMP HB	42+73.50	42+73.50	LT	7																1									
1048/1077	D29	RAMP HB	42+73.50	543+25.25	LT		51																						R4		
1048/1077	D32	IR 90	543+25.25	543+75.00	LT		50																						1		
1048/1077	D33	IR 90	543+75.00	543+75.25	LT	7																1									
1048/1078	D31	IR 90	543+25.25	42+81.00	LT										53														R4		
TOTALS CARRIED TO SHEETS 346 & 347						46	1040	286	332	763	72	493	466	79	126	168	67	58	170	155	5	4	10	5	1	2	1	12	6	1

R4 R5 R7 R8 R10

DRAINAGE ESTIMATED QUANTITIES

DESIGN AGENCY
AMERICAN STRUCTUREPOINT INC.

DESIGNER
BER

REVIEWER
VDK 08/09/23

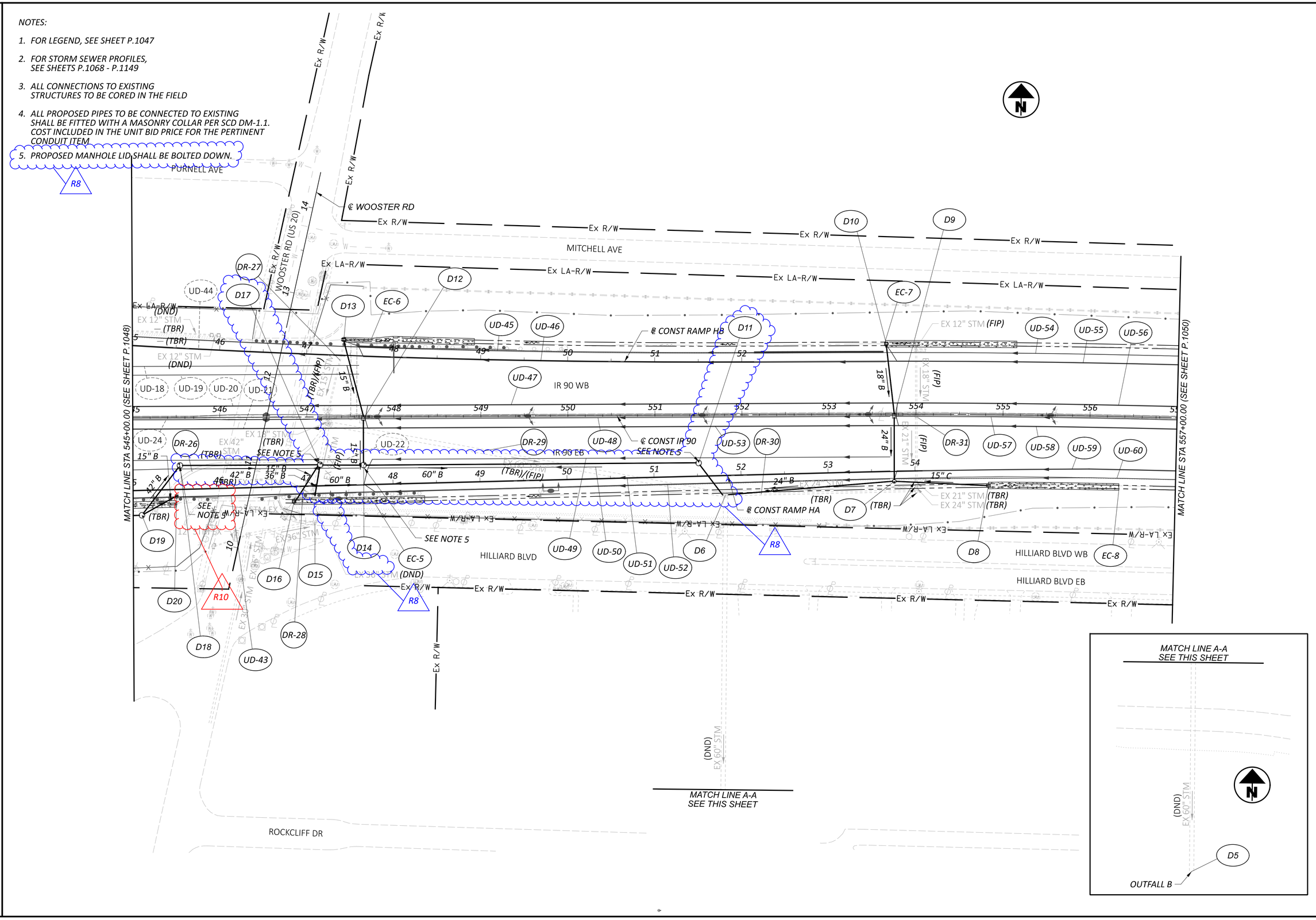
PROJECT ID
76779

SHEET P.0351 | TOTAL P.1587

CUY-90-6.69

NOTES:

1. FOR LEGEND, SEE SHEET P.1047
2. FOR STORM SEWER PROFILES, SEE SHEETS P.1068 - P.1149
3. ALL CONNECTIONS TO EXISTING STRUCTURES TO BE CORED IN THE FIELD
4. ALL PROPOSED PIPES TO BE CONNECTED TO EXISTING SHALL BE FITTED WITH A MASONRY COLLAR PER SCD DM-1.1. COST INCLUDED IN THE UNIT BID PRICE FOR THE PERTINENT CONDUIT ITEM
5. PROPOSED MANHOLE LID SHALL BE BOLTED DOWN.



HORIZONTAL SCALE IN FEET
0 25 50 100

DRAINAGE PLAN SHEET - IR 90
STA 545+00.00 TO STA 557+00.00

DESIGN AGENCY
STRUCTUREPOINT

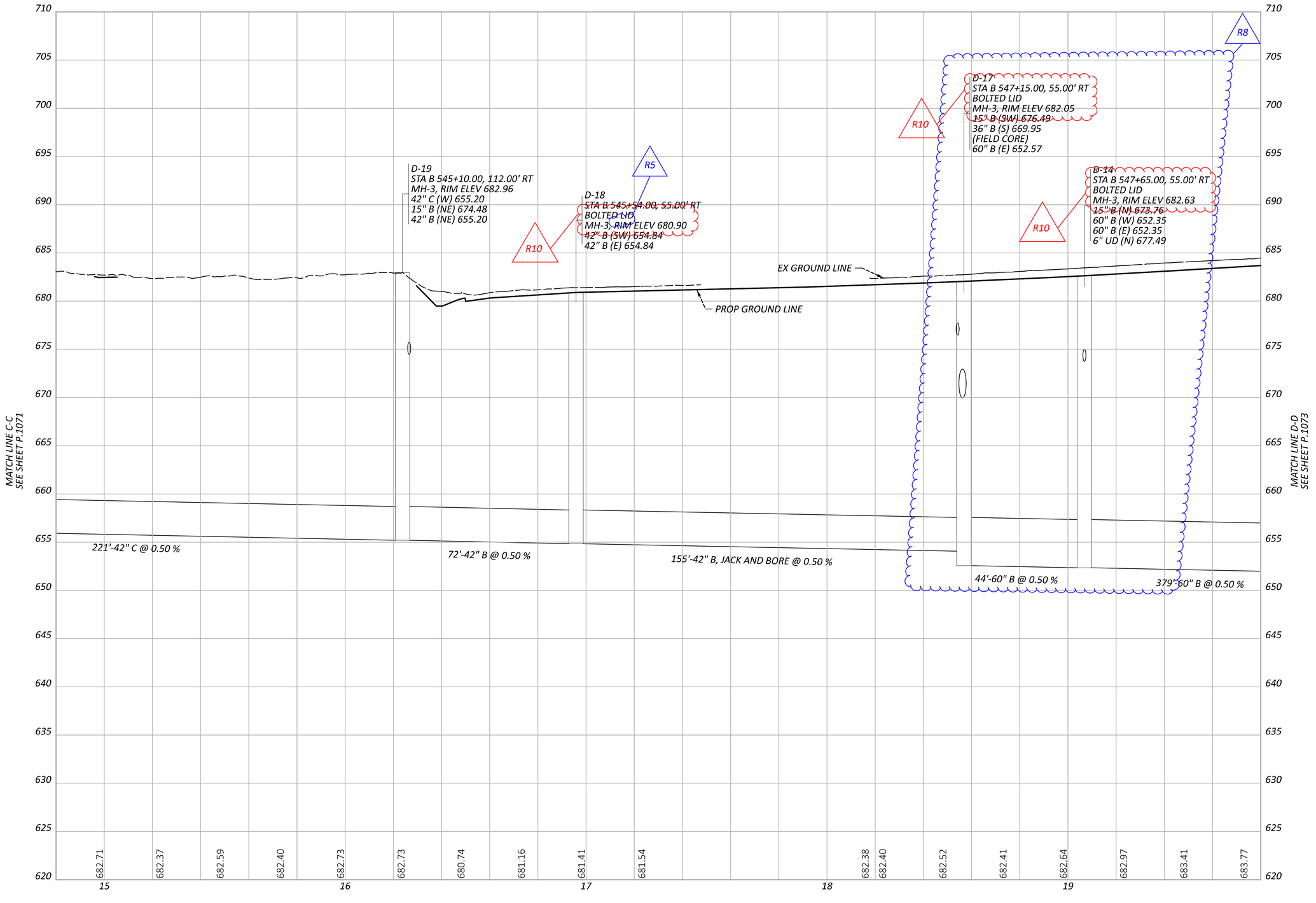
DESIGNER AJO
REVIEWER KEM 08/09/23
PROJECT ID 76779
SHEET P.1049 TOTAL P.1587

CUY-90-6.69

MODEL: 76779_DP01 - Plan 04 [Sheet]_STA 545+00 TO STA 557+00 PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 4:49:32 PM USER: kmorton
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DP01.dgn

NOTES:

1. ALL STATIONING TAKEN FROM ℄ CONST IR 90 UNLESS OTHERWISE NOTED
2. FOR DRAINAGE PLAN SHEETS, SEE SHEET P.1047 - P.1067
3. ALL EXISTING CONNECTIONS TO BE CORED IN THE FIELD
4. ALL PROPOSED PIPES TO BE CONNECTED TO EXISTING SHALL BE FITTED WITH A MASONRY COLLAR PER SCD DM-1.1. COST INCLUDED IN THE UNIT BID PRICE FOR THE PERTINENT CONDUIT ITEM



STORM SEWER PROFILES
OUTFALL B

CUY-90-6.69

MODEL: B000 - Profile 4 (Sheet) PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 5:55:54 PM USER: kmorton
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DF030.dgn

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER
AJO

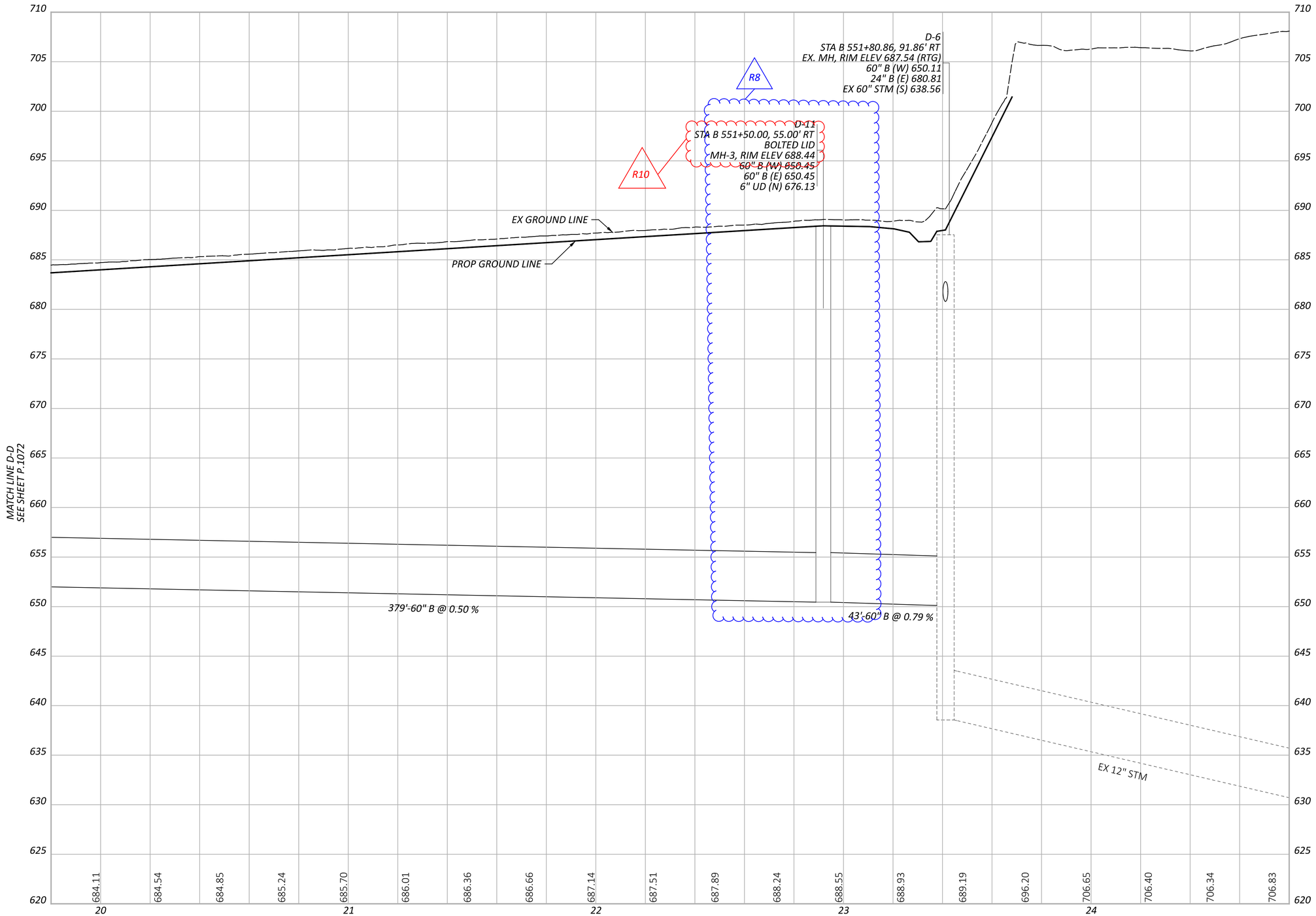
REVIEWER
KEM 08/09/23

PROJECT ID
76779

SHEET P.1072 TOTAL P.1587

NOTES:

1. ALL STATIONING TAKEN FROM ℄ CONST IR 90 UNLESS OTHERWISE NOTED
2. FOR DRAINAGE PLAN SHEETS, SEE SHEET P.1047 - P.1067
3. ALL EXISTING CONNECTIONS TO BE CORED IN THE FIELD
4. ALL PROPOSED PIPES TO BE CONNECTED TO EXISTING SHALL BE FITTED WITH A MASONRY COLLAR PER SCD DM-1.1. COST INCLUDED IN THE UNIT BID PRICE FOR THE PERTINENT CONDUIT ITEM



STORM SEWER PROFILES
OUTFALL B

DESIGN AGENCY
STRUCTUREPOINT

DESIGNER AJO
REVIEWER KEM 08/09/23
PROJECT ID 76779
SHEET P.1073 TOTAL P.1587

CUY-90-6.69

MODEL: B000 - Profile 5 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 4/25/2025 TIME: 5:56:01 PM USER: kmorton
pw:\\structurepoint-pw.bentley.com:structurepoint-pw-01\Documents\Projects\202000062\76779\400-Engineering\Drainage\Sheets\76779_DF030.dgn