

ITEM 609 - COMBINED CURB AND GUTTER, TYPE 2 (24"), AS PER PLAN

THIS ITEM SHALL CONFORM TO THE SPECIFICATIONS OF ITEM 609 IN THE CMS, WITH THE FOLLOWING CONDITIONS:

CURB WIDTH SHALL BE MEASURED AS 24". FOR ADDITIONAL DETAILS, SEE PLAN SHEET NO. 4.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE FOLLOWING ITEMS:

ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN

ITEM SPECIAL - CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION

ALL CONCRETE SHALL BE TESTED. ALL TESTING, INSPECTION AND QUALITY CONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES, CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL, THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CMS SPECIFICATIONS 455 RESPECTIVELY.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S), ALL EQUIPMENT, AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE PLACEMENT.

THE TECHNICIAN SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE ODOT PROJECT ENGINEER OF ANY FAILING TEST AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICATION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF CONCRETE MIX NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANT SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS, TE-45'S, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING-RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE-TESTING WORK.

THE ODOT PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR.

THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS.

A FINAL REPORT ISSUED BY THE CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO. AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAVEMENT FOR THE ABOVE DESCRIBED WORK SHALL BE AT THE LUMP SUM BID FOR ITEM SPECIAL - 69098400 AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK.

SAWCUT TO SOUND PAVEMENT NOTE:

THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO LOCATE A SOUND PAVEMENT. FOR ESTIMATING PURPOSES, PAVEMENT CALCULATIONS INCLUDED IN THE PLAN INDICATE AN AVERAGE WIDTH OF 2' OF EXISTING PAVEMENT BEING REPLACED. THE CONTRACTOR SHALL USE CARE WHEN REMOVING THE EXISTING TO AVOID DAMAGE AND UNDERMINING OF THE EXISTING PAVEMENT TO REMAIN.

ADDITIVE ALTERNATIVES:

ADDITIVE ALTERNATES FOR THIS PROJECT ARE PROVIDED AS DESCRIBED BELOW. THE DEPARTMENT HAS A BID BUDGET NOT TO EXCEED THE VALUE LISTED ON THE FRONT OF THE PROPOSAL AND WILL AWARD THE MAXIMUM AMOUNT OF WORK WITHIN THE BID BUDGET. THE SEGMENTS OF THE PROPOSAL CONSIST OF:

- 1) BASE BID - PAVEMENT RECONSTRUCTION TO STA. 60+00 (BID ITEMS 1 - 74, BID ITEMS 99 - 102).
- 2) ADDITIVE ALTERNATE #1 - PAVEMENT RECONSTRUCTION FROM STA. 60+00 TO 63+00 (BID ITEMS 75 - 98; PRIORITY 1).

THE CONTRACT COMPLETION DATE WILL NOT EXTEND BASE ON THE INCLUSION OF ADDITIVE ALTERNATIVES.

ITEM 611 - 8" CONDUIT, TYPE B, 707.45, AS PER PLAN

THE CONTRACTOR SHALL PLACE NEW SANITARY CONDUIT ACCORDING TO THE CMS 611. THE JOINTS SHALL CONFORM TO ASTM D3212. THE CONTRACTOR SHALL MATCH THE EXISTING CONDUIT AT A MINIMUM OF 0.4% SLOPE TO MEET THE MINIMUM SLOPE REQUIREMENTS. THE END OF THE CONDUIT SHALL BE PLUGGED WITH APPROVED PRECAST STOPPER TO ALLOW FOR FUTURE CONNECTION. ALL COST ASSOCIATED WITH THE MATERIAL, INSTALLATION, AND STOPPER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 611 - 8" CONDUIT, TYPE B, 707.45, AS PER PLAN.

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GENERAL NOTES

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SEQUENCE OF CONSTRUCTION

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC TO ALL DRIVES AND APPROACHES AS PER ODOT SPECIFICATION SECTION 614.02. ANY COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO MAINTAIN LOCAL ACCESS TO PROPERTIES.

THE SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:

PHASE 1:

PRIOR TO THE START OF THE PHASE, THE CONTRACTOR SHALL ERRECT THE DETOUR SIGNING AS SHOWN IN THE PLANS.

THE CONTRACTOR SHALL CLOSE THE SOUTHBOUND/WESTBOUND DIRECTION OF TRAFFIC AS SHOWN IN THE PLANS. ONE 12' LANE OF NORTHBOUND/EASTBOUND TRAFFIC SHALL BE MAINTAINED IN THE ORIGINAL CONFIGURATION. THE CONTRACTOR SHALL CONSTRUCT THE NORTHERN HALF OF THE PROPOSED PAVEMENT INCLUDING ANY DRAINAGE, GRADING, AND ASSOCIATED WORK.

THE CONTRACTOR WILL BE PERMITTED TO CLOSE DAVIDS DR IN BOTH DIRECTIONS NIGHTLY TO PERFORM THE REPLACEMENT OF THE RAW WATER LINE CROSSING. THE ROAD CLOSURE SHALL BE LIMITED TO 7 PM TO 7 AM. DURING THE CLOSURE PERIOD, THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND FROM PROPERTIES ALONG DAVIDS DRIVE INCLUDING THE CLINTON COUNTY SHERIFF'S OFFICE AND BRIGHTFARMS. ACCESS MAY BE PROVIDED VIA ONE LANE BIDIRECTIONAL TRAFFIC WITH FLAGGERS OR TWO-WAY TRAFFIC ON EXISTING PAVEMENT. THE CLOSURE PERIOD SHALL BE AT THE APPROVAL OF THE ENGINEER. DURING WATERLINE REPLACEMENT, THE EXISTING RAW WATER LINE SHALL REMAIN IN SERVICE EXCEPT FOR A MAXIMUM OF 48 HOURS DURING WHICH THE EXISTING PIPE SHALL BE REMOVED AND NEW LINE CONNECTED AND TESTED. PRIOR TO OPENING TRAFFIC NORTHBOUND TRAFFIC AT THE END OF THE NIGHTLY CLOSURE PERIODS, THE CONTRACTOR SHALL SECURELY PLATE OVER THE TRENCH. FINAL PAVEMENT REPLACEMENT ON THE NORTHBOUND SIDE WILL BE PERFORMED IN A SUBSEQUENT PHASE. ALL COST TO MAINTAIN TRAFFIC AND PLATE OVER THE TRENCH AND TRAFFIC CONTROL DURING THE WATERLINE REPLACEMENT SHALL BE INCLUDED THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

THE CONTRACTOR MAY UTILIZE FLAGGERS TO COMPLETE CONSTRUCTION OF THE INTERSECTION WITH SR 134. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF MT-101.90 INCLUDING TEMPORARILY BACKFILLING THE EXCAVATED AREA DURING NONWORK HOURS.

PHASE 1A & 1B:

WHILE TRAFFIC REMAINS IN THE PHASE 1 CONFIGURATION, THE CONTRACTOR SHALL CONSTRUCT THE DRIVEWAYS USING PART-WIDTH CONSTRUCTION AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND PROPERTY OWNERS IN WRITING 7 DAYS PRIOR TO THE START OF DRIVEWAY WORK. EACH PHASE OF DRIVEWAY RECONSTRUCTION SHALL BE COMPLETED WITHIN 14 DAYS OF BEGINNING WORK.

WORK IN FRONT OF THE DRIVES IN PHASE 1A SHALL BE CEMENT STABILIZED AS SHOWN IN THE PLANS. WORK IN FRONT OF THE DRIVES IN PHASE 1B SHALL BE UNDERCUT. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AS PAYMENT FOR THIS WORK:

ITEM 204 - EXCAVATION OF SUBGRADE, 14" DEEP - 195 CY
 ITEM 204 - GRANULAR MATERIAL TYPE C - 195 CY
 ITEM 204 - GEOTEXTILE FABRIC - 501 SY

PHASE 2:

PRIOR TO THE START OF THE PHASE, THE CONTRACTOR SHALL ERRECT THE DETOUR SIGNING AS SHOWN IN THE PLANS.

THE SOUTHBOUND/WESTBOUND DIRECTION OF TRAFFIC SHALL REMAIN CLOSED AS SHOWN IN THE PLANS. ONE 12' LANE OF NORTHBOUND/EASTBOUND TRAFFIC SHALL BE MAINTAINED ON THE COMPLETED PAVEMENT. THE CONTRACTOR SHALL CONSTRUCT THE SOUTHERN HALF OF THE PROPOSED PAVEMENT INCLUDING ANY DRAINAGE, GRADING, AND ASSOCIATED WORK.

THE CONTRACTOR MAY UTILIZE FLAGGERS TO COMPLETE CONSTRUCTION OF THE INTERSECTION WITH SR 134. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF MT-101.90 INCLUDING TEMPORARILY BACKFILLING THE EXCAVATED AREA DURING NONWORK HOURS.

PHASE 2A & 2B:

WHILE TRAFFIC REMAINS IN THE PHASE 2 CONFIGURATION, THE CONTRACTOR SHALL CONSTRUCT THE DRIVEWAYS USING PART-WIDTH CONSTRUCTION AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND PROPERTY OWNERS IN WRITING 7 DAYS PRIOR TO THE START OF DRIVEWAY WORK. EACH PHASE OF DRIVEWAY RECONSTRUCTION SHALL BE COMPLETED WITHIN 14 DAYS OF BEGINNING WORK.

WORK IN FRONT OF THE DRIVES IN PHASE 2A SHALL BE CEMENT STABILIZED AS SHOWN IN THE PLANS. WORK IN FRONT OF THE DRIVES IN PHASE 2B SHALL BE UNDERCUT. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY AS PAYMENT FOR THIS WORK:

ITEM 204 - EXCAVATION OF SUBGRADE, 14" DEEP - 190 CY
 ITEM 204 - GRANULAR MATERIAL TYPE C - 190 CY
 ITEM 204 - GEOTEXTILE FABRIC - 487 SY

PHASE 3:

UTILIZE ODOT SCD MT-97.12 AND MT-99.20 TO PLACE FINAL SURFACE COURSE AND PROPOSED PAVEMENT MARKING ON DAVIDS DR. UNCOVER OR COMPLETE ANY NONPERFORMED TRAFFIC CONTROL ITEMS. OPEN ALL TRAFFIC TO THE FINAL LANE CONFIGURATION.

MAINTENANCE OF TRAFFIC SUBSUMMARY									
REF NO.	SHEET NO.	STATION TO STATION		614		614	614		622
				WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)		WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)		PORTABLE BARRIER, UNANCHORED
				EACH		MILE	MILE		FT
PB	10	10+66.00	TO	13+50.00	1				284
ELY	10	12+18.00		13+50.00			0.03		
PB	10	15+00.00		34+00.00	1				1900
PB	11	34+00.00		42+00.00					800
PB	11	43+50.00		53+75.00	1				1025
PB	11	55+05.00		59+00.00	1				395
PB	12	59+00.00		64+50.00					550
ELW	13	10+14.52		34+00.00			0.45		
PB	13	10+67.00		23+50.00	1				1283
PB	13	25+00.00		34+00.00	1				900
ELW	14	34+00.00		59+00.00			0.47		
PB	14	34+00.00		53+75.00					1975
PB	14	55+00.00		59+00.00	1				400
PB	15	59+00.00		63+10.00					410
ELW	15	59+00.00		66+13.00				0.14	
ELY	15	60+00.00		66+13.00			0.12		
SUBTOTALS					7		1.05	0.17	9922
TOTALS CARRIED TO GENERAL SUMMARY					7		1.22		9922

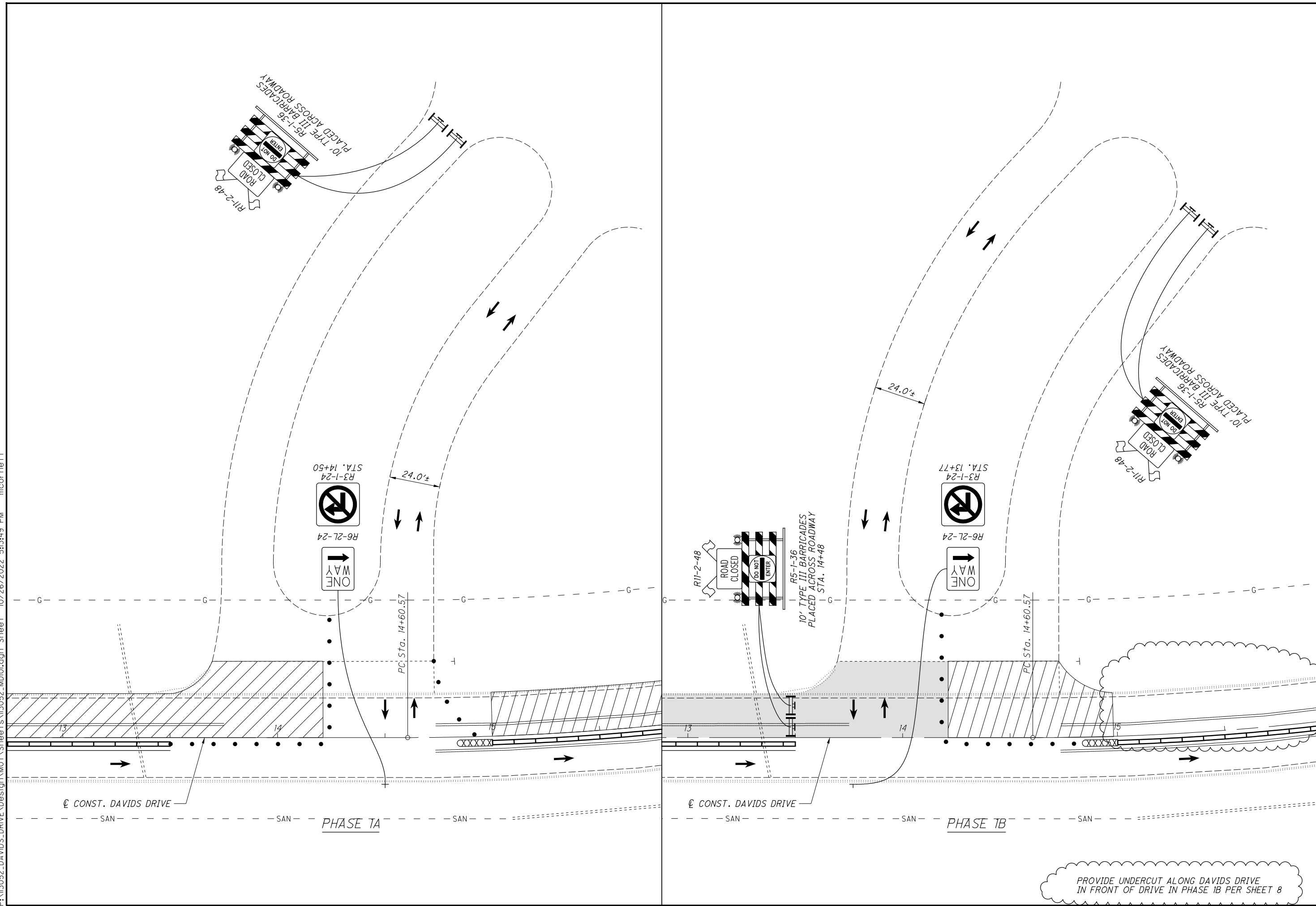
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MAINTENANCE OF TRAFFIC GENERAL NOTES

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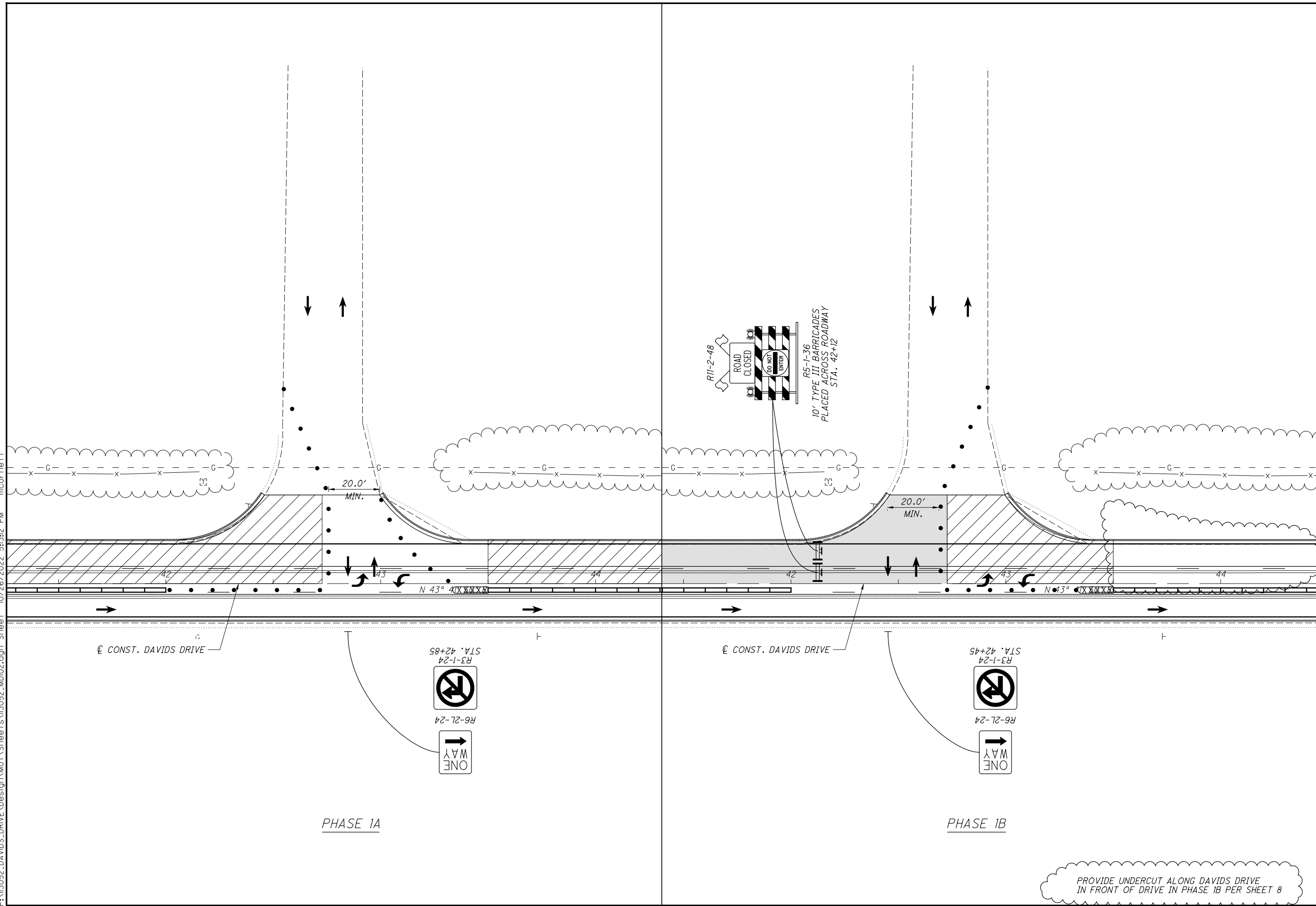
0 10 20 40
HORIZONTAL
SCALE IN FEET

MAINTENANCE OF TRAFFIC - PHASE 1
DRIVE DETAILS AT STA. 14+25

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PROVIDE UNDERCUT ALONG DAVIDS DRIVE
IN FRONT OF DRIVE IN PHASE 1B PER SHEET 8

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PROVIDE UNDERCUT ALONG DAVIDS DRIVE IN FRONT OF DRIVE IN PHASE 1B PER SHEET 8

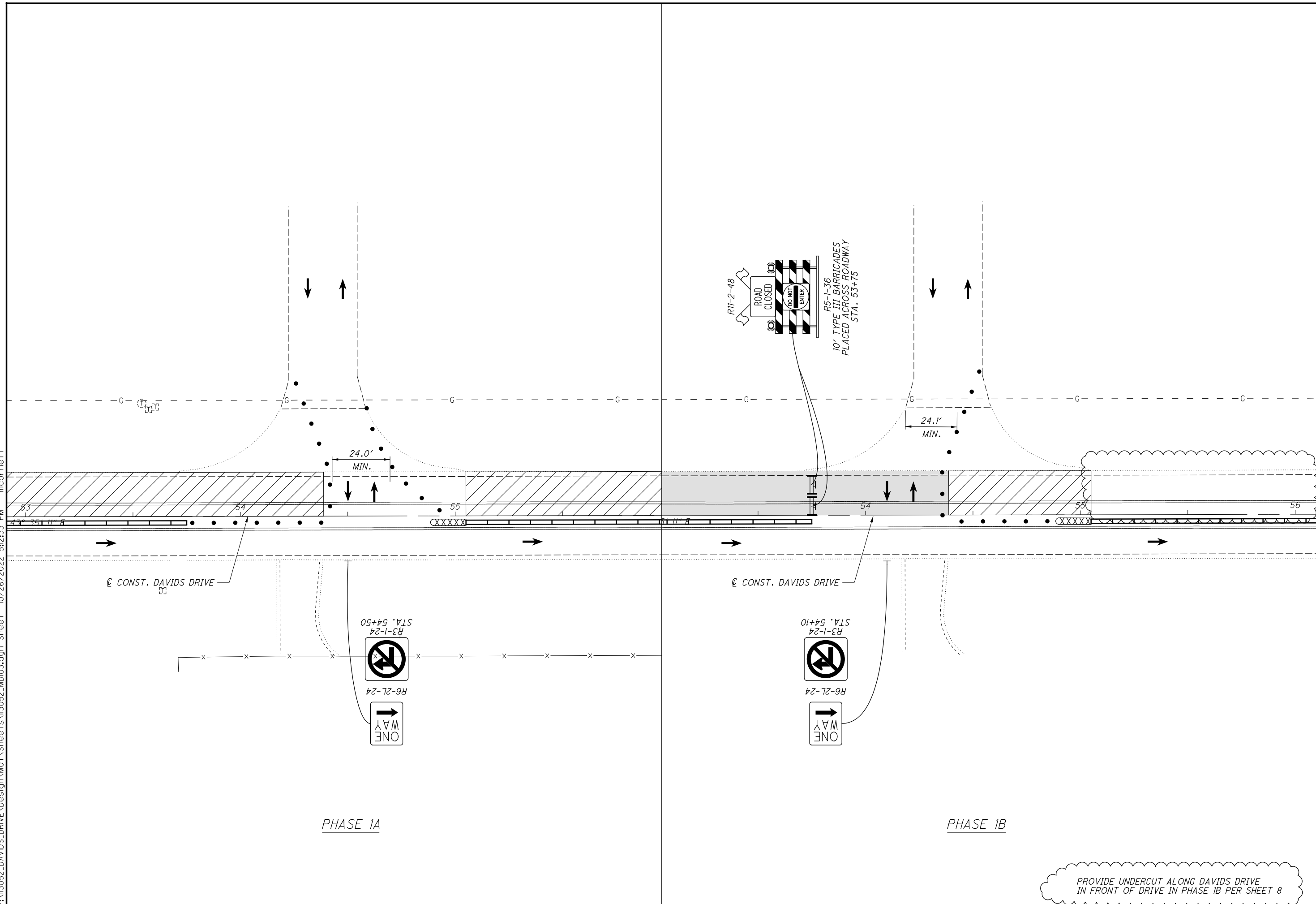
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MAINTENANCE OF TRAFFIC - PHASE 1
DRIVE DETAILS AT STA. 42+75

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PHASE 1A

PHASE 1B

PROVIDE UNDERCUT ALONG DAVIDS DRIVE IN FRONT OF DRIVE IN PHASE 1B PER SHEET 8

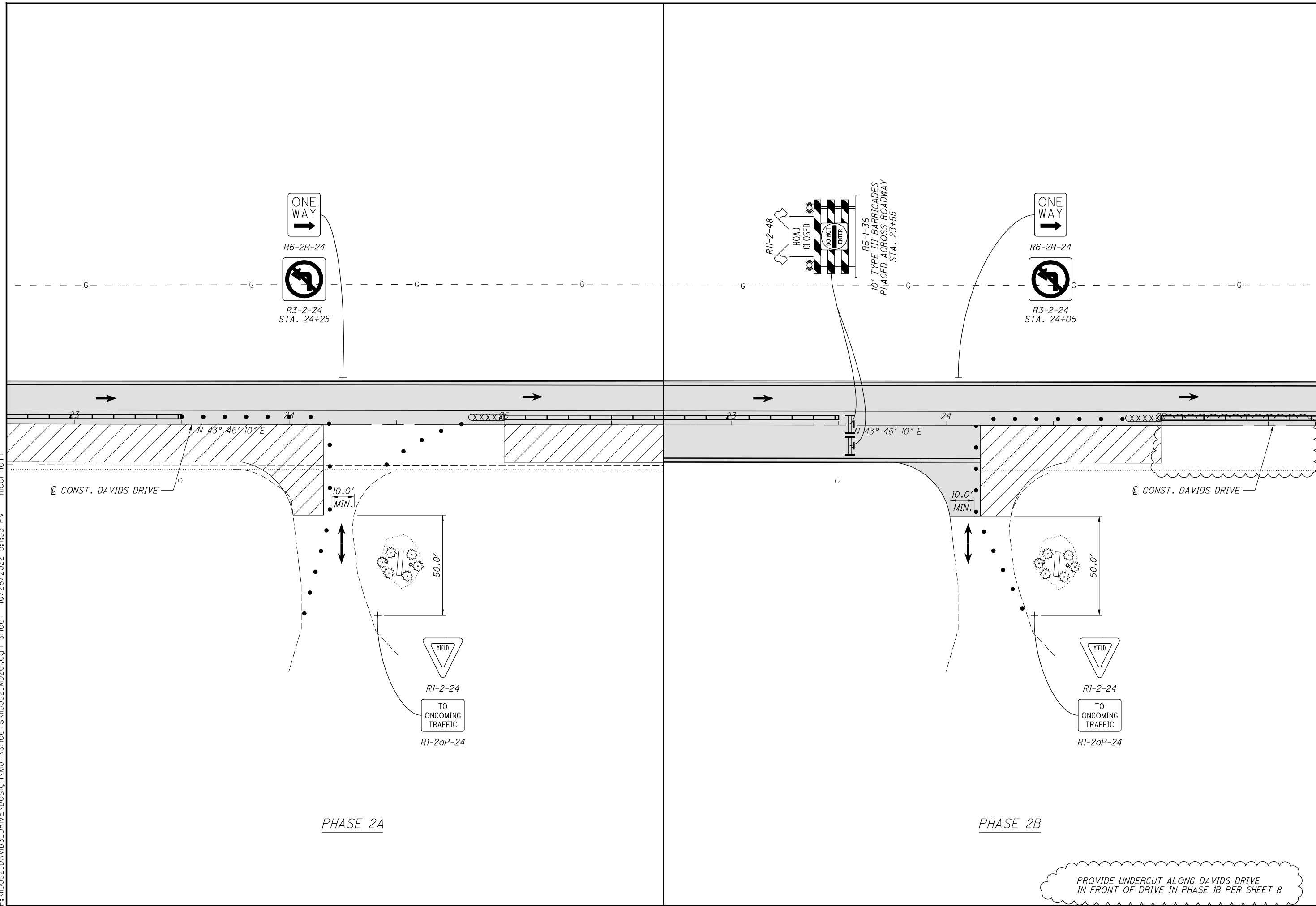
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HORIZONTAL SCALE IN FEET

MAINTENANCE OF TRAFFIC - PHASE 1
DRIVE DETAILS AT STA. 54+25

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HORIZONTAL
SCALE IN FEET

**MAINTENANCE OF TRAFFIC - PHASE 2
DRIVE DETAILS AT STA. 24+25**

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PROVIDE UNDERCUT ALONG DAVIDS DRIVE
IN FRONT OF DRIVE IN PHASE 1B PER SHEET 8

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SHEET NUM.										8	OFFICE CALCS	PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
5	6	23	24		25	26		88	97	102									
											8								
LS													LS	201	11000	LS		CLEARING AND GRUBBING	
												20,859	20,859	202	23000	20,859	SY	PAVEMENT REMOVED	
			116									116	116	202	32000	116	FT	CURB REMOVED	
		6,694	3,220									9,914	9,914	202	32500	9,914	FT	CURB AND GUTTER REMOVED	
					244							244	244	202	35100	244	FT	PIPE REMOVED, 24" AND UNDER	
										105		105	105	202	35101	105	FT	PIPE REMOVED, 24" AND UNDER, AS PER PLAN	102
					19							19	19	202	58100	19	EACH	CATCH BASIN REMOVED	
								4,913				4,913	4,913	203	10000	4,913	CY	EXCAVATION	
								666				666	666	203	20000	666	CY	EMBANKMENT	
											485	485	485	204	13000	485	CY	EXCAVATION OF SUBGRADE	
											485	485	485	204	30020	485	CY	GRANULAR MATERIAL, TYPE C	
											989	989	989	204	50000	989	SY	GEOTEXTILE FABRIC	
12											12	12	12	204	45000	12	HOUR	PROOF ROLLING	
											668	668	668	206	10500	668	TON	CEMENT	
											22,126	22,126	22,126	206	11000	22,126	SY	CURING COAT	
											22,126	22,126	22,126	206	15020	22,126	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
											LS	LS	LS	206	30000	LS		MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
	LS										LS	LS	LS	SPECIAL	69098400	LS		SPECIAL - CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	6
											LS	LS	LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																		EROSION CONTROL	
2											2	2	2	601	21050	2	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
2											2	2	2	659	00100	2	EACH	SOIL ANALYSIS TEST	
996											996	996	996	659	00300	996	CY	TOPSOIL	
								7,086			7,086	7,086	7,086	659	10000	7,086	SY	SEEDING AND MULCHING	
355											355	355	355	659	14000	355	SY	REPAIR SEEDING AND MULCHING	
355											355	355	355	659	15000	355	SY	INTER-SEEDING	
0.99											0.99	0.99	0.99	659	20000	0.99	TON	COMMERCIAL FERTILIZER	
1.47											1.47	1.47	1.47	659	31000	1.47	ACRE	LIME	
40											40	40	40	659	35000	40	MGAL	WATER	
1,881											1,881	1,881	1,881	670	00500	1,881	SY	SLOPE EROSION PROTECTION	
					LS						LS	LS	LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
					LS						LS	LS	LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
					LS						LS	LS	LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
					60,000						60,000	60,000	60,000	832	30000	60,000	EACH	EROSION CONTROL	
																		DRAINAGE	
									4,094		4,094	4,094	4,094	605	11100	4,094	FT	6" SHALLOW PIPE UNDERDRAINS	
									5,697		5,697	5,697	5,697	605	14000	5,697	FT	6" BASE PIPE UNDERDRAINS	
20											20	20	20	605	13300	20	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
10										520	530	530	611	00510	530	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS		
					85						85	85	85	611	04400	85	FT	12" CONDUIT, TYPE B	
					24						24	24	24	611	04600	24	FT	12" CONDUIT, TYPE C	
					5						5	5	5	611	07400	5	FT	18" CONDUIT, TYPE B	
					9						9	9	9	611	07600	9	FT	18" CONDUIT, TYPE C	
					5						5	5	5	611	10400	5	FT	24" CONDUIT, TYPE B	
					9						9	9	9	611	10600	9	FT	24" CONDUIT, TYPE C	
					7						7	7	7	611	98150	7	EACH	CATCH BASIN, NO. 3	
					12						12	12	12	611	98180	12	EACH	CATCH BASIN, NO. 3A	
					15						15	15	15	611	98630	15	EACH	CATCH BASIN ADJUSTED TO GRADE	
					4						4	4	4	611	98634	4	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
1											1	1	1	611	99710	1	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
											3,208	3,208	3,208	301	56000	3,208	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
											3,578	3,578	3,578	304	20000	3,578	CY	AGGREGATE BASE	
											2,310	2,310	2,310	407	20000	2,310	GAL	NON-TRACKING TACK COAT	
											668	668	668	441	70000	668	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
											936	936	936	441	70300	936	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
											555	555	555	452	12010	555	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
		6,632	3,220								9,852	9,852	9,852	609	12001	9,852	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	6
			116								116	116	116	609	14000	116	FT	CURB, TYPE 2-A	

GENERAL SUMMARY

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SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	JLS	CHECKED	MJC
5	7	8	9	24	25	91		97	102	103		OFFICE CALCS	01/SK2/OT	EXT	TOTAL							
														105	105	105	FT	WATER WORK			102	
									105									16" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS CITY OF WILMINGTON SPECS				
														72	72	72	FT	SANITARY SEWER			6	
																		8" CONDUIT, TYPE B, 707.45, AS PER PLAN				
														25.8	25.8	25.8	FT	TRAFFIC CONTROL				
														14.8	14.8	14.8	SF	GROUND MOUNTED SUPPORT, NO. 3 POST				
																		SIGN, FLAT SHEET				
														1.83	1.83	1.83	MILE	CENTER LINE				
														170	170	170	FT	CHANNELIZING LINE, 8"				
														28	28	28	FT	STOP LINE				
														14	14	14	EACH	LANE ARROW				
														7	7	7	EACH	MAINTENANCE OF TRAFFIC				
														LS	LS	LS		WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)				
														214	214	214	EACH	DETOUR SIGNING				
														214	214	214	EACH	BARRIER REFLECTOR, TYPE 1 (ONE WAY)				
														10	10	10	SNMT	OBJECT MARKER, ONE WAY				
																		PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN			7	
														1.22	1.22	1.22	MILE	WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT				
														12	12	12	MGAL	WATER				
														9,922	9,922	9,922	FT	PORTABLE BARRIER, UNANCHORED				
																		ADDITIVE ALTERNATIVE 1: ADDITIONAL PAVEMENT				
														1,200	1,200	1,200	SY	PAVEMENT REMOVED				
														600	600	600	FT	CURB AND GUTTER REMOVED				
														430	430	430	CY	EXCAVATION				
														13	13	13	CY	EMBANKMENT				
														1	1	1	TON	PROOF ROLLING				
														41	41	41	TON	CEMENT				
														1,367	1,367	1,367	SY	CURING COAT				
														1,367	1,367	1,367	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP				
														600	600	600	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN			6	
														42	42	42	CY	TOPSOIL				
														376	376	376	SY	SEEDING AND MULCHING				
														19	19	19	SY	REPAIR SEEDING AND MULCHING				
														19	19	19	SY	INTER-SEEDING				
														0.06	0.06	0.06	TON	COMMERCIAL FERTILIZER				
														0.08	0.08	0.08	ACRE	LIME				
														1	1	1	MGAL	WATER				
														933	933	933	FT	6" UNCLASSIFIED PIPE UNDERDRAINS				
														189	189	189	CY	ASPHALT CONCRETE BASE, PG64-22, (449)				
														211	211	211	CY	AGGREGATE BASE				
														136	136	136	GAL	NON-TRACKING TACK COAT				
														39	39	39	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22				
														55	55	55	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)				
														0.12	0.12	0.12	MILE	CENTER LINE				
														LS	LS	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS				
														LS	LS	LS		INCIDENTALS				
														6	6	6	MNTH	MAINTAINING TRAFFIC				
														LS	LS	LS		FIELD OFFICE, TYPE A				
														LS	LS	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING				
														LS	LS	LS		MOBILIZATION				

GENERAL SUMMARY

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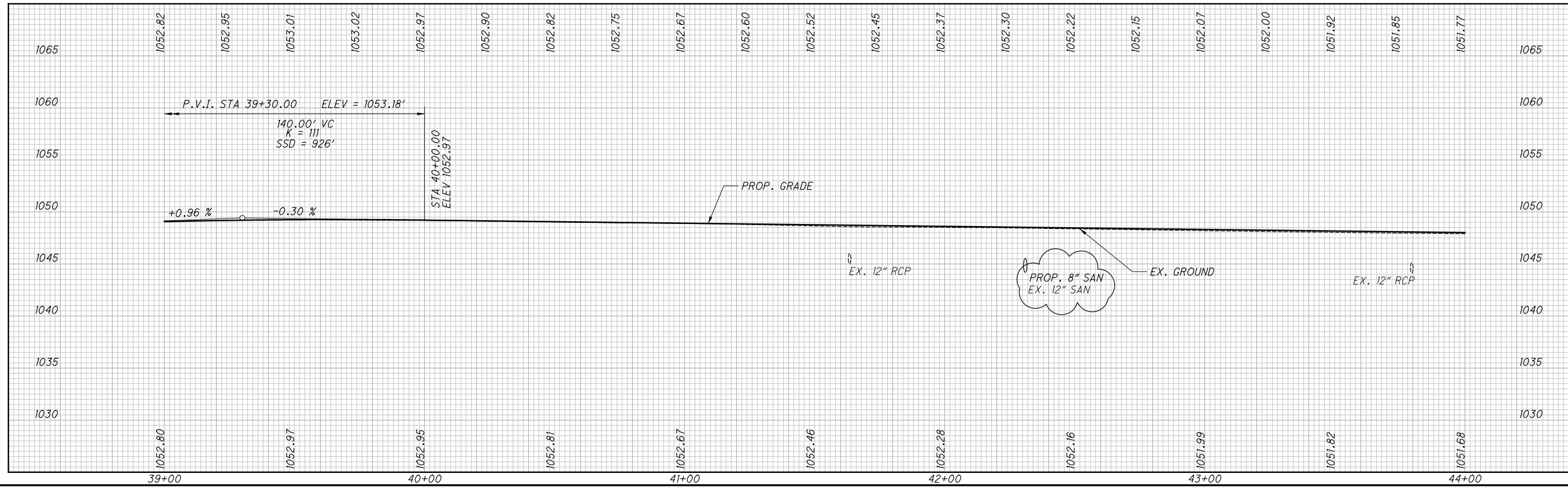
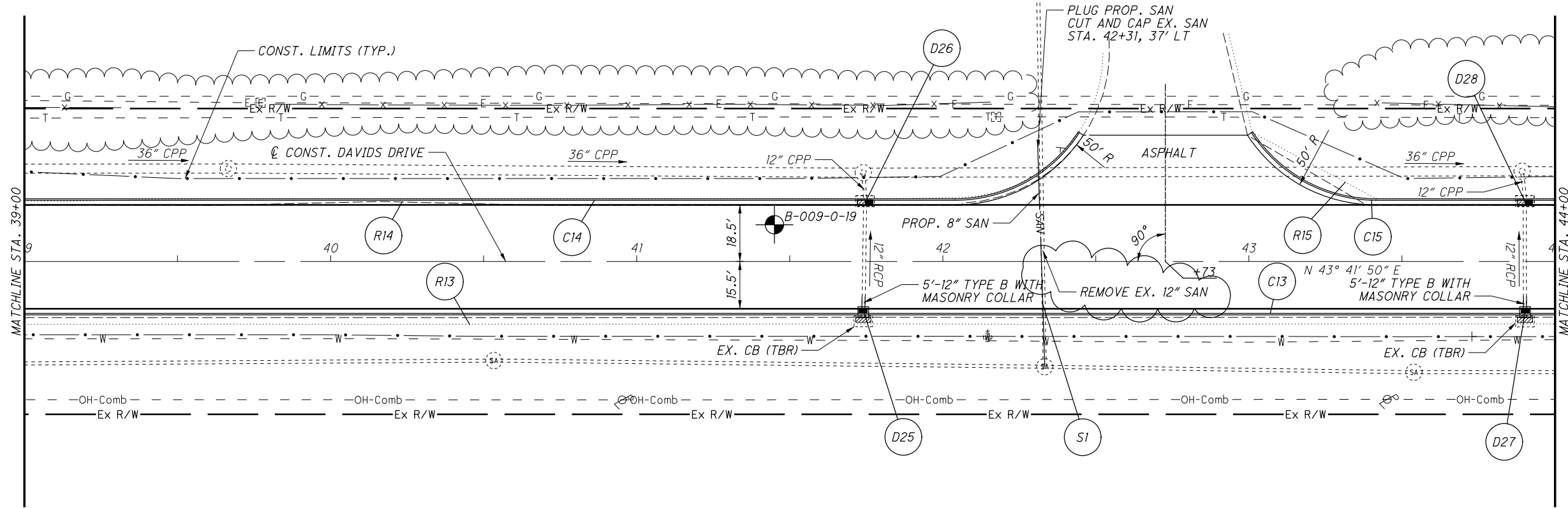
REF NO.	SHEET NO.	STATION	SIDE	202		611		611	611	611	611	611	611	611	611	611	611		
				CATCH BASIN REMOVED EACH	PIPE REMOVED, 24" AND UNDER FT	12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE C FT	18" CONDUIT, TYPE B FT	18" CONDUIT, TYPE C FT	24" CONDUIT, TYPE B FT	24" CONDUIT, TYPE C FT	CATCH BASIN, NO. 3 EACH	CATCH BASIN, NO. 3A EACH	CATCH BASIN ADJUSTED TO GRADE EACH	CATCH BASIN RECONSTRUCTED TO GRADE EACH	8" CONDUIT, TYPE B, 707.45, AS PER PLAN FT			
D1	27	11+31.50	RT	1	7														
D2	27	11+31.61	LT			5							1						
D3	27	13+31.40	LT														1		
D4	27	13+37.97	RT	1	7											1			
D5	28	16+73.19	LT			5						1					1		
D6	28	16+73.83	RT	1	11														
D7	28	18+73.08	LT			5	6						1						
D8	28	18+72.37	RT	1	8											1			
D9	29	20+73.54	LT			5						1							
D10	29	20+73.84	RT	1	8	5							1				1		
D11	29	22+77.94	RT	1	8														
D12	29	22+78.49	LT			5						1							
D13	30	26+32.98	RT	1	8												1		
D14	30	26+33.24	LT			5							1						
D15	30	28+11.07	LT											1					
D16	30	28+11.16	RT	1	15														
D17	31	31+72.16	RT	1	8	5	9					1							
D18	31	31+72.04	LT			5							1						
D19	31	33+68.49	RT	1	7										1				
D20	31	33+68.80	LT			5							1		1				
D21	32	35+65.74	LT																
D22	32	35+65.75	RT	1	15										1				
D23	32	37+59.75	RT	1	7			5	9			1							
D24	32	37+60.13	LT			5							1						
D25	33	41+74.05	RT	1	7	5							1		1				
D26	33	41+74.61	LT																
S1	33	42+31.00	LT/RT		72												72		
D27	33	43+90.20	RT																
D28	33	43+90.16	LT			5							1						
D29	34	46+05.34	LT												1				
D30	34	46+05.71	RT	1	14					5	9	1			1				
D31	35	50+83.10	LT																
D32	35	50+82.66	RT	1	14												1		
D33	35	53+33.59	RT	1	7	5	9						1						
D34	35	53+33.67	LT			5							1						
D35	36	55+83.41	RT	1	7	5							1		1				
D36	36	55+84.52	LT																
D37	36	58+34.19	LT														1		
D38	36	58+33.41	RT	1	7										1				
						5						1							
TOTALS CARRIED TO GENERAL SUMMARY				19	244	85	24	5	9	5	9	7	12	14	4	72			

CALCULATED	ACF
	CHECKED
MJC	

DRAINAGE AND SANITARY SUBSUMMARY

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25
107



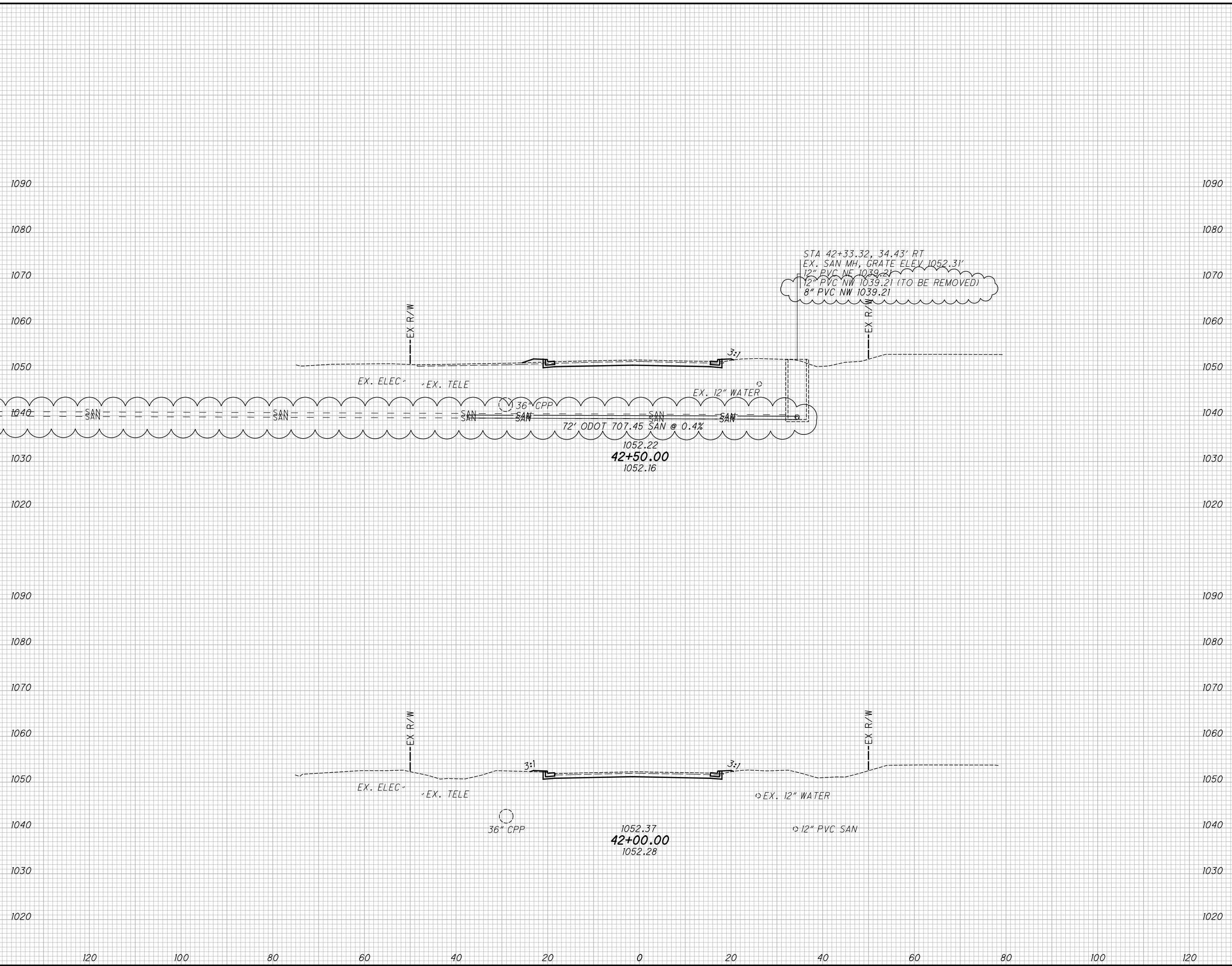
CALCULATED
CJS
CHECKED
MJC

PLAN AND PROFILE
STA. 39+00 TO STA. 44+00

CLI-CR-87-0.00

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SEEDING	
END WIDTH	SO. YDS.
12	61
10	56
117	117



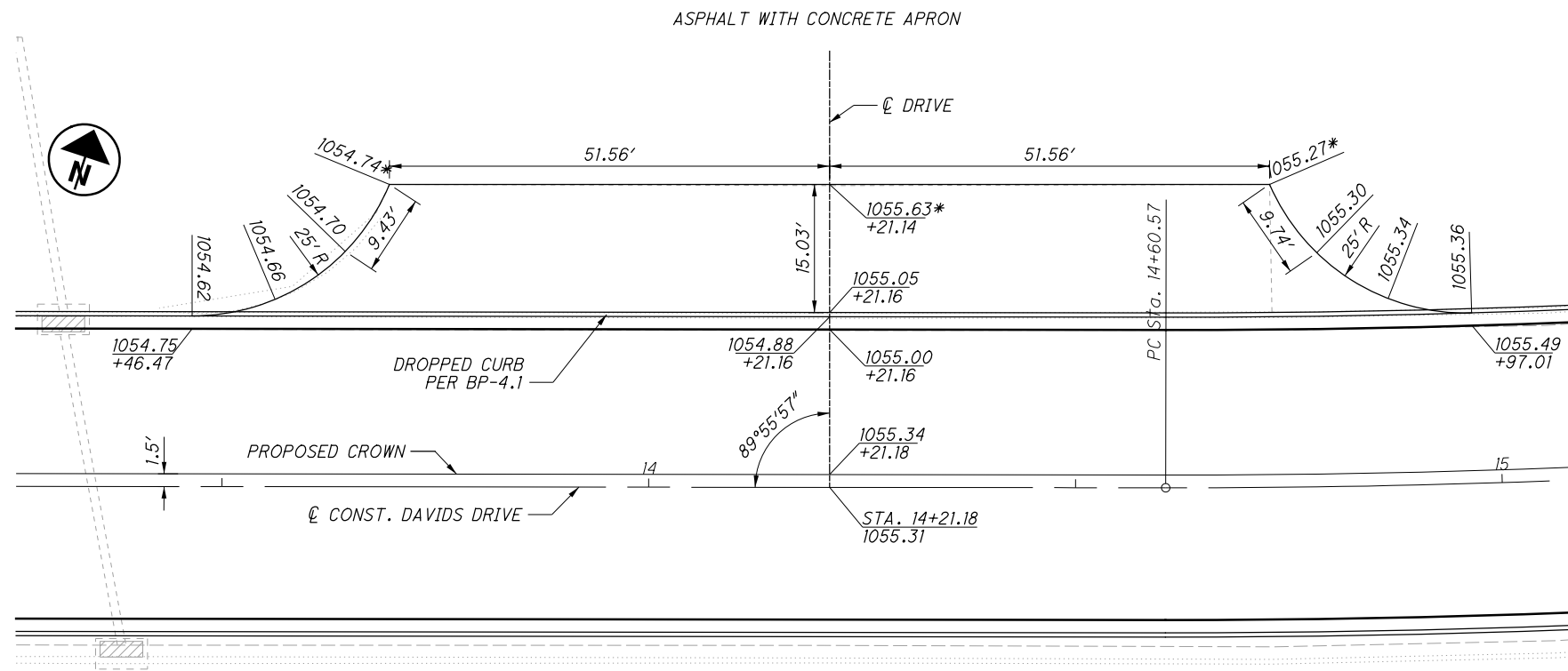
END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	JAB	MJC
31	3	57	5		
31	2	57	4		
		114	9		

CROSS SECTIONS - DAVIDS DRIVE
STA. 42+00.00 TO STA. 42+50.00

CLI-CR-87-0.00

71
107

P:\13052_DAVIDS_DRIVE\Design\Roadway\Sheets\13052_GD001.dgn Sheet 10/20/2022 3:53:33 PM jr-oss



NOTES:
ALL ELEVATIONS ALONG CURB ARE FACE OF CURB ELEVATIONS.
ADD 6" TO ELEVATIONS FOR TOP OF CURB ELEVATIONS.

THE CURB HEIGHT TRANSITIONS FROM 0" TO 6" IN THE FIRST 10' OF CURB AND GUTTER.

* DENOTES EXISTING ELEVATION.

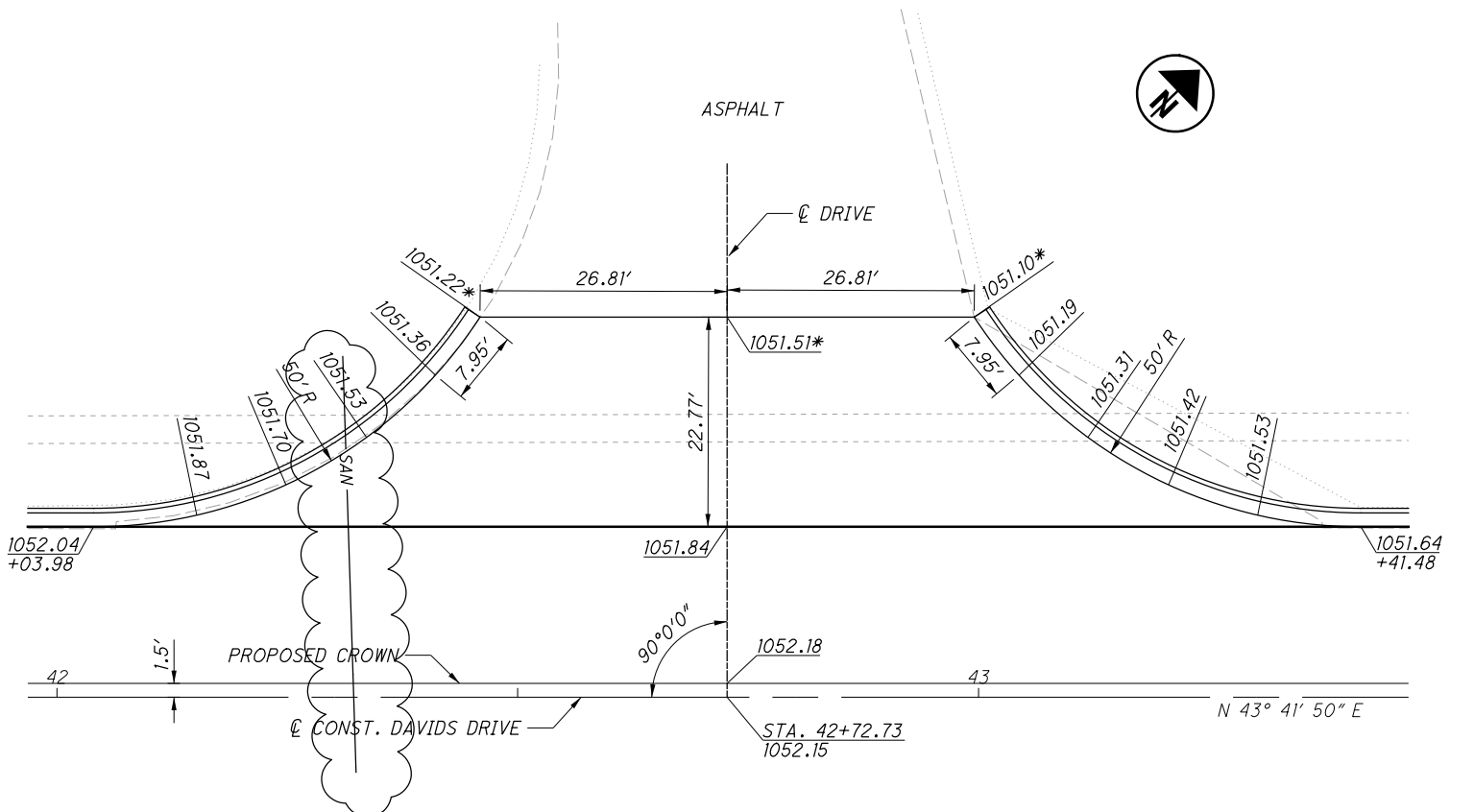
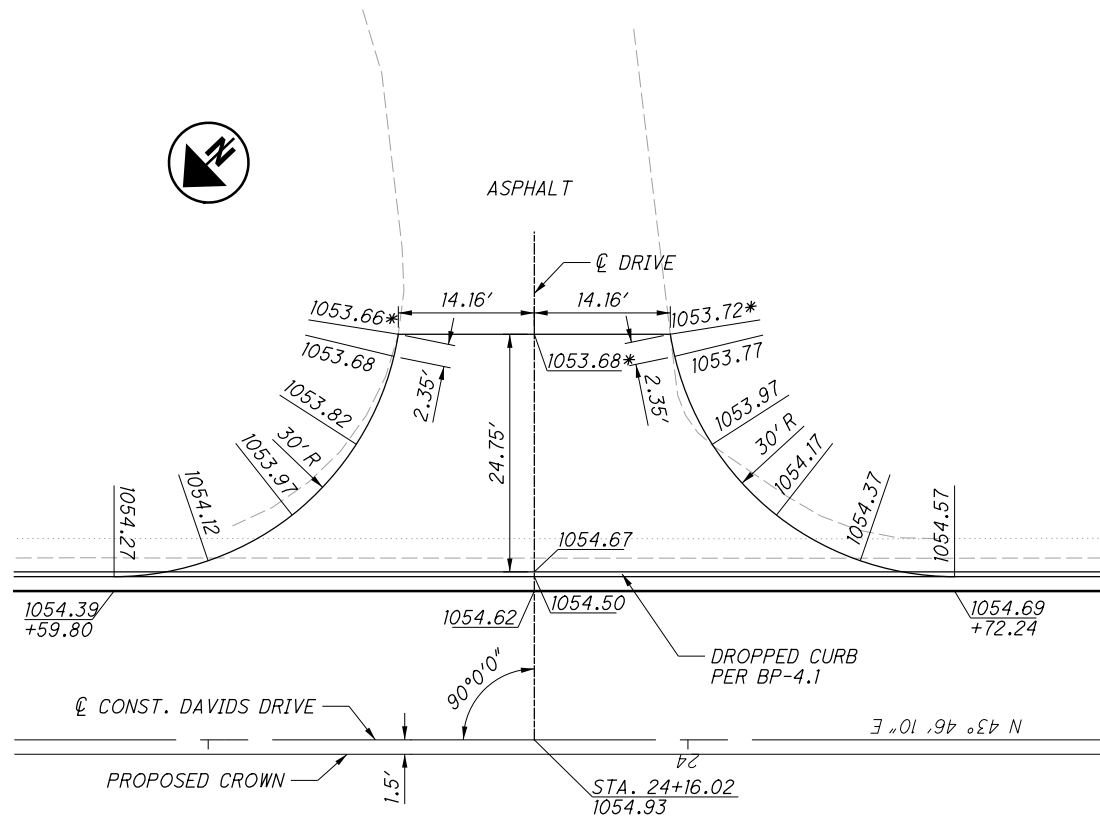
DRIVEWAY BUILDUP SHALL CONSIST OF
ITEM 452 - 8" NONREINFORCED CONCRETE PAVEMENT
EXCEPT STREET AT STA. 42+72.73 WHICH SHALL
MATCH DAVIDS DRIVE BUILDUP

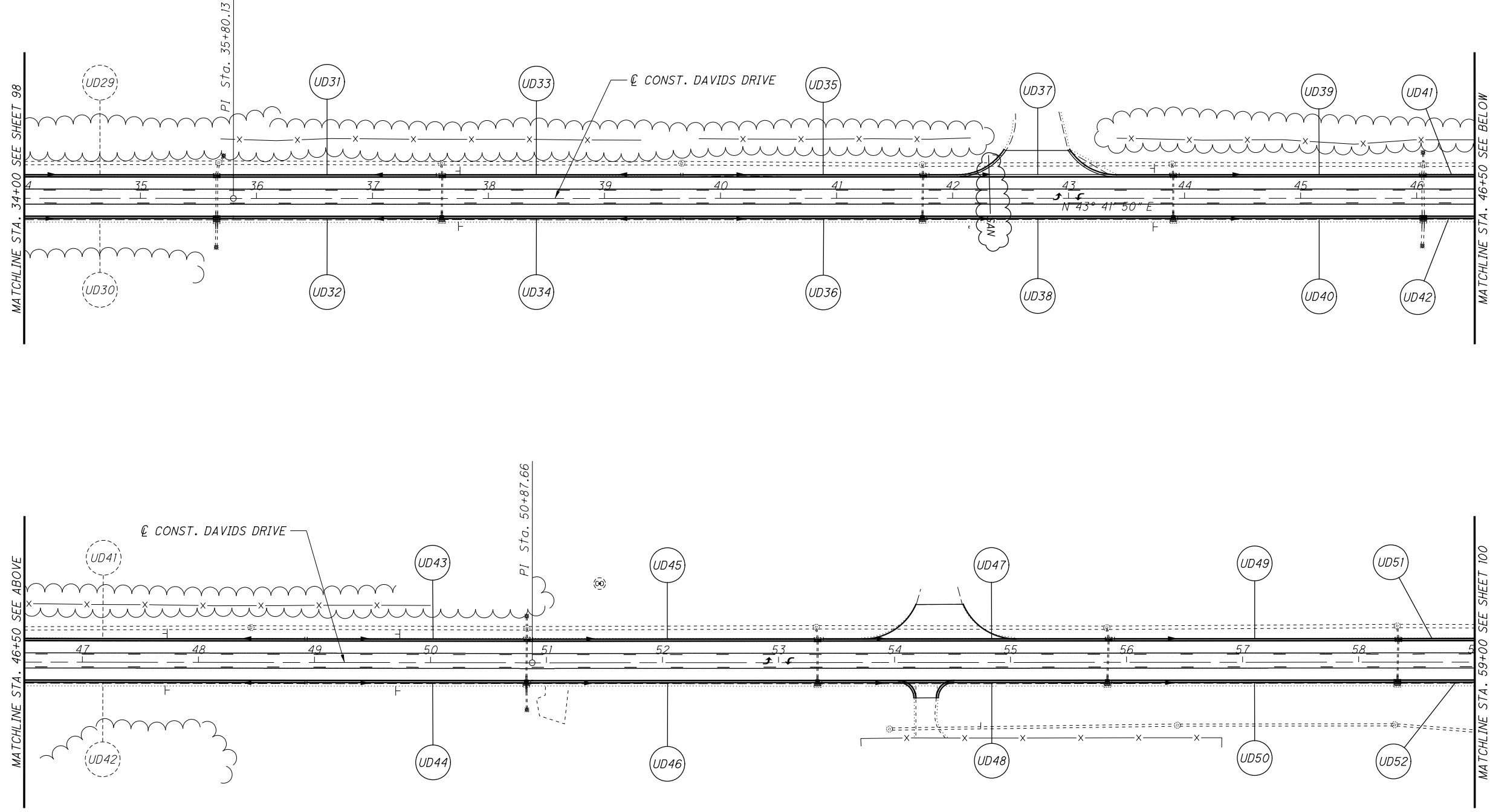
CALCULATED	TDP	CHECKED
		MJC

0 5 10 20
HORIZONTAL SCALE IN FEET

DRIVE DETAILS
STA. 14+21.18, STA. 24+16.02 & STA. 42+72.73

CLI-CR-87-0.00



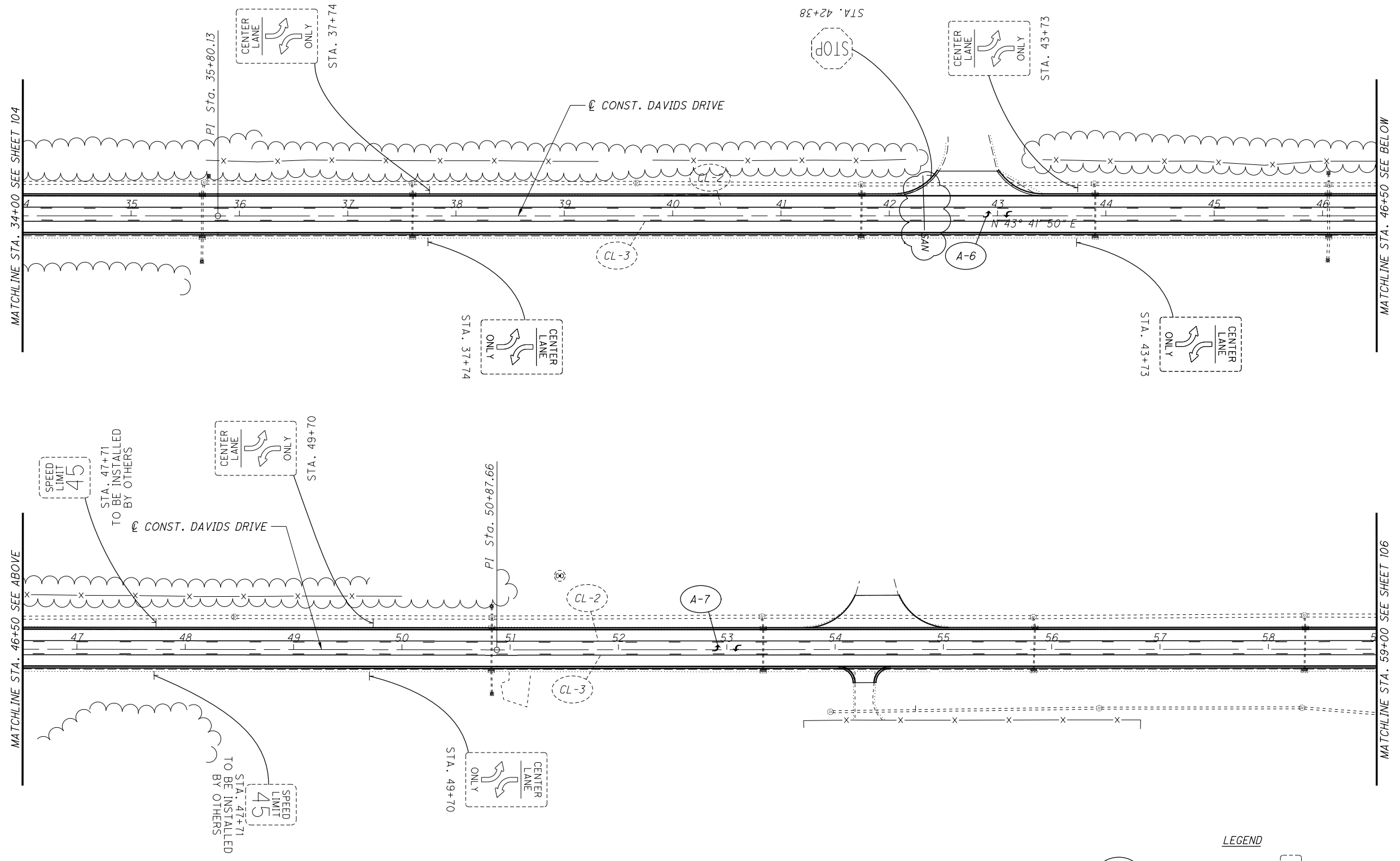


CALCULATED
CJR
CHECKED
MJC

0 50 100
HORIZONTAL
SCALE IN FEET

UNDERDRAIN DETAIL
STA. 34+00 TO STA. 59+00

CLI-CR-87-0.00



- LEGEND**
- (A-X) LANE ARROW
 - (CH-X) CHANNELIZING LINE, 12"
 - (CL-X) CENTER LINE
 - (SL-X) STOP LINE
 - [] EXISTING SIGN

CALCULATED
CJR

CHECKED
MJC

0 50 100
25
HORIZONTAL
SCALE IN FEET

TRAFFIC CONTROL PLAN
STA. 34+00 TO STA. 59+00

CLI-CR-87-0.00