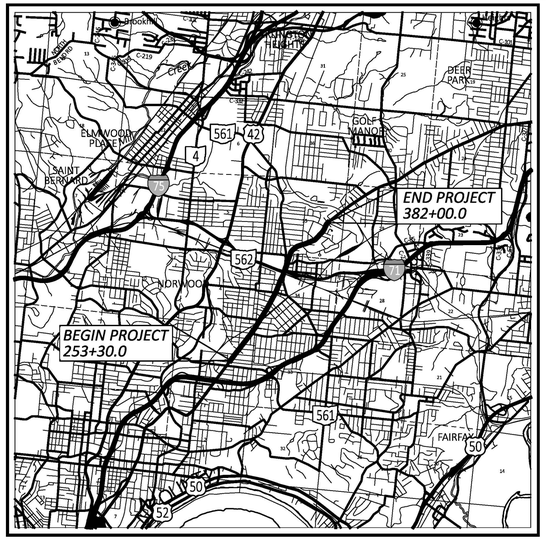
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

HAM-US 22-4.807

CITY OF NORWOOD

HAMILTON COUNTY
FINAL



LOCATION MAP

LATITUDE: 39° 09' 53" LONGITUDE: 84° 27' 15"

N

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

DESIGN DESIGNATION

	HAM-22 4.81-5.91	HAM-22 5.91-6.43	HAM-22 6.43-7.19
CURRENT ADT (2025)	15000	14500	8400
DESIGN YEAR ADT (2037)	16000	14500	8700
DESIGN HOURLY VOLUME (20)	1700	1600	1000
DIRECTIONAL DISTRIBUTION	50.2%	50.9%	55.4%
TRUCKS (24 HOUR B&C)	5.0%	4.0%	5.0%

DESIGN SPEED 35 MPH
LEGAL SPEED 25 MPH
DESIGN FUNCTIONAL CLASSIFICATION: PRINCIPAL ARTERIAL
NHS PROJECT NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

REQUIRED, AS NOTED IN THE PLANS

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:
TEC ENGINEERING, INC.
7288 CENTRAL PARKE BLVD
MASON, OHIO 45040

ENGINEER'S SEAL

STATE OF OHIO
DYLAN GARRETT OSBORN
E-84065
REGISTERED
PROFESSIONAL ENGINEER

Digitally signed by Dylan Osborn
Date: 2025.03.17 16:43:37 -04'00'

INDEX OF SHEETS:

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STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	1/19/24	TC-65.10	1/17/14					800	1/17/25	
BP-5.1	7/15/22	TC-65.11	1/19/24					821	4/20/12	
BP-7.1	1/19/24	TC-71.10	4/21/23					832	7/21/23	
		TC-74.10	7/21/23					905	4/17/20	
RM-1.1	1/20/23	TC-82.10	7/19/19							
		TC-85.22	4/21/23							
MT-95.31	7/19/19									
MT-95.32	4/19/19									
MT-95.50	7/21/17									
MT-95.60	4/19/19									
MT-97.10	4/19/19									
MT-99.20	4/19/19									
MT-101.90	7/17/20									
MT-105.10	1/17/20									
TC-17.11	1/19/24									

FEDERAL PROJECT NUMBER

E250(051)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

FY25 URBAN PAVING PROJECT IN THE CITY OF NORWOOD ON A PORTION OF US 22 (MONTGOMERY RD)

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.5 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	0.5 ACRES (NOI NOT REQUIRED)

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

Douglas A. Gruver, P.E.
District 08 Deputy Director

Pamela Boratyn
Director, Department of Transportation

TITLE SHEET

DESIGN AGENCY
PLAN PREPARED BY: TEC Engineering, Inc. 7288 Central Parke Blvd. Mason, OH 45040

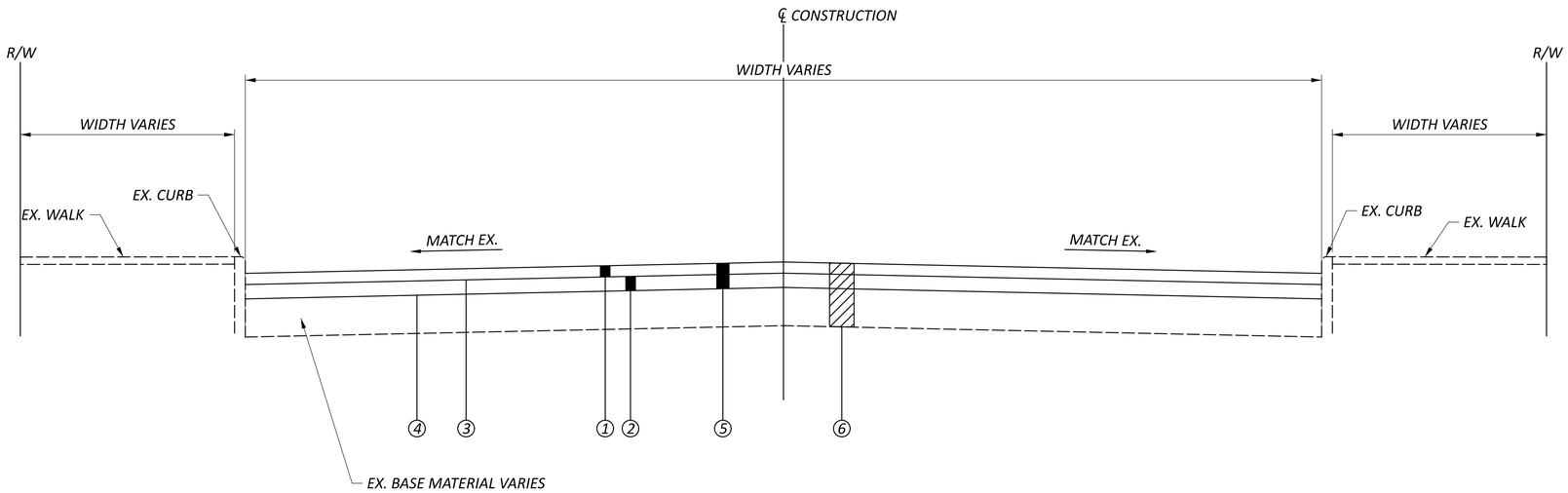
DESIGNER AAH
REVIEWER DGO 03/11/25
PROJECT ID 115747
SHEET 1 TOTAL 77

HAM-US22-4.807

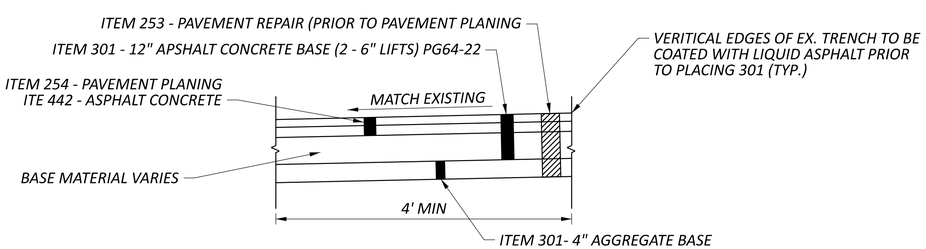
MODEL: TITLE SHEET PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:15:40 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GT001.dgn

LEGEND

1. ITEM 442: 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A, (449)
2. ITEM 442: 1.5" ASPHALT CONCRETE INTERMEDIATE COURSE. 12.5MM, TYPE A, (449)
3. ITEM 407: NON-TRACKING TACK-COAT, (0.04 GAL/SY)
4. ITEM 407: NON-TRACKING TACK-COAT, (0.075 GAL/SY)
5. ITEM 254: PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH
6. ITEM 253: FULL DEPTH PAVEMENT REPAIR



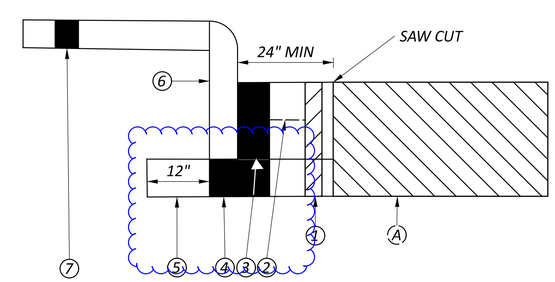
FULL DEPTH PAVEMENT REPAIR/RESTORATION (ITEM 253)



FULL DEPTH PAVEMENT REPAIR/RESTORATION (ITEM 253), AS PER PLAN (AT CURB AND RAMPS)

1. ITEM 253 - PAVEMENT REPAIR, AS PER PLAN
2. ITEM 407 - NON-TRACKING TACK COAT
3. ITEM 301 - 12" ASPHALT CONCRETE BASE, PG 64-22, 2-6" LIFTS
4. ITEM 304 - 4" AGGREGATE BASE
5. ITEM 204 - SUBGRADE COMPACTION
6. ITEM 609 - CURB, TYPE 6
7. ITEM 608 - 5" CONCRETE WALK

A. EXISTING ASPHALT SECTION, BASE VARIES



TYPICAL SECTION

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:15:44 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GY001.dgn

DESIGN AGENCY
PLAN PREPARED BY:
TTE Consulting Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 3 TOTAL 77

SURVEY PARAMETERS

THE TOPOGRAPHIC AND/OR BOUNDARY SURVEY INFORMATION CONTAINED IN THESE PLAN WAS PROVIDED BY TEC ENGINEERING, INC. THE HORIZONTAL COORDINATES ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM, OHIO SOUTH ZONE NAD93 (86). THE VERTICAL DATUM IS NGVD29

UTILITIES

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

STORM SEWER:
CLINT ZIMMERMAN
NORWOOD PUBLIC WORKS DEPARTMENT
3001 HARRIS AVENUE
NORWOOD, OHIO 45212
(513) 458-4615

SANITARY SEWER:
METROPOLITAN SEWER DISTRICT
1600 GEST STREET
CINCINNATI, OHIO 45204
(513) 244-1355

TELEPHONE:
CINCINNATI BELL, INC.
201 E. FOURTH STREET
CINCINNATI, OHIO 45202
(513) 344-7043

GAS & ELECTRIC
DUKE ENERGY
139 E. FOURTH STREET
CINCINNATI, OHIO 45202
ELEC: (513) 287-2454
GAS: (513) 287-3636

WATER:
CLINT ZIMMERMAN
NORWOOD PUBLIC WORKS DEPARTMENT
3001 HARRIS AVENUE
NORWOOD, OHIO 45212
(513) 458-4615

CABLE:
SPECTRUM COMMUNICATIONS
11252 CORNELL PARK DR.
CINCINNATI, OHIO 45242
(513) 489-5001

EXISTING FACILITIES

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. SPECIAL CARE SHALL BE GIVEN WHEN EXCAVATING CURB RAMPS. UNDERGROUND ELECTRIC FACILITIES HAVE BEEN FOUND TO BE BURIED AT SHALLOW DEPTHS IN THEIR SIDEWALK. IF ANY DAMAGE TO ANY EXISTING FACILITY OCCURS DUE TO CONTRACTOR OPERATIONS, THE CONTRACTOR SHALL REPLACE DAMAGED FACILITIES AT THEIR OWN EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

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 WORK LIMITS.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIAL OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES TO BE USED AT THE ENGINEER'S DIRECTION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION IN THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

PROFILE AND ALIGNMENT

THE CENTERLINE OF US 22 IS THE ASSUMED CENTERLINE OF ROADWAY AND IS USED FOR REFERENCE ONLY. PLACE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF EXISTING US 22 PAVEMENT.

PERMANENT PAVEMENT MARKINGS

THE CONTRACTOR SHALL REFERENCE ALL PAVEMENT MARKINGS INCLUDING AUXILIARY PAVEMENT MARKINGS BEFORE THE START OF THE PLANING OPERATION. MARKINGS WILL GENERALLY REMAIN AS EXISTING SOUTH OF STA. 300+00. NORTH OF STA. 300+00, MARKINGS VARY GREATLY. PAY FOR THIS OPERATION SHALL BE INCLUDED WITH EACH RESPECTIVE PAVEMENT MARKING ITEM.

CATCH BASINS, MANHOLES, AND VALVES

CATCH BASINS, MANHOLES, AND VALVES ARE LOCATED THROUGHOUT THE PROJECT AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FEATHER THE ASPHALT CONCRETE TO ALL CATCH BASINS, MANHOLES, AND VALVES. THE CONTRACTOR SHALL IMMEDIATELY CLEAN THE TOP OF THE CATCH BASINS, MANHOLES, AND VALVES AS SOON AS THE PAVER HAS PASSED OVER.

MANHOLES AND VALVES, ADJUSTED TO GRADE

ALL MANHOLES AND VALVES ENCOUNTERED IN AREAS THAT REQUIRE GRADE ADJUSTMENTS WILL BE PERFORMED PRIOR TO THE APPLICATION OF THE SURFACE COURSE BY THE UTILITY OWNER. CONTACT THE UTILITY OWNER 2 WEEKS PRIOR TO WHEN THE ADJUSTMENTS ARE TO BE COMPLETED.

ITEM 611 - MANHOLE ADJUSTED TO GRADE

THIS WORK SHALL CONSIST OF ADJUSTING MANHOLES TO GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 611 - MANHOLE ADJUSTED TO GRADE 272 EACH

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE

THIS WORK SHALL CONSIST OF ADJUSTING CATCH BASINS TO GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE 67 EACH

ITEM 611 - VALVE BOX ADJUSTED TO GRADE

THIS WORK SHALL CONSIST OF ADJUSTING VALVE BOX TO GRADE PRIOR TO THE APPLICATION OF THE SURFACE COURSE AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 611 - VALVE BOX ADJUSTED TO GRADE 127 EACH

ITEM 625 - PULL BOX MISC.: PULL BOX ADJUSTED TO GRADE

THE WORK SHALL CONFORM TO ALL REQUIREMENTS OF C&MS SECTION 625. SIGNAL PULL BOX SHALL BE ADJUSTED TO GRADE IN ORDER TO MEET ADA REQUIREMENTS IN THE CURB RAMP AREA. THIS PAY ITEM SHALL INCLUDE ALL RESTORATION IN THE IMMEDIATE SURROUNDING AREA. CONTRACTOR SHALL NOT DISTURB CABLES INSIDE PULL BOX. ANY DAMAGE TO SIGNAL CABLES INSIDE THE PULL BOX SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

DETECTOR LOOP, AS PER PLAN

PRIOR TO PLANING OPERATIONS, THE LOCATIONS OF THE EXISTING LOOP DETECTORS SHALL BE REFERENCED SO THAT THE REPLACEMENTS LOOP CAN BE REINSTALLED AT THE PROPER LOCATION. NEW LOOP DETECTORS SHALL BE CONNECTED TO THE LEAD IN CABLE WITH THE PROPER CONNECT KITS AND TESTED TO MAKE CERTAIN THAT THEY ARE OPERATIONAL. IN A FEW SITUATIONS, THE LOOP DETECTOR LOCATIONS MAY NEED TO BE MODIFIED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF NORWOOD A MINIMUM OF 3 DAYS IN ADVANCE OF ANY LOOP DETECTOR INSTALLATIONS TO PERMIT TIME FOR LOOP LOCATION ADJUSTMENT, IF NEEDED.

ASPHALT RESURFACING

THE CONTRACTOR SHALL TAKE SPECIAL CARE DURING THE RESURFACING OPERATION TO IMMEDIATELY REMOVE ASPHALT MATERIAL THAT ACCUMULATES ON THE TOP OF THE EXISTING GAS VALVES AND ELECTRIC BOXES TO PREVENT DEFACING AND BONDING OF THE COVERS

ITEM 254, PAVEMENT PLANING ASPHALT CONCRETE

THE PAVEMENT PLANING SHALL BE SCHEDULED SO AS TO BE COVERED BY THE INTERMEDIATE COURSE WITHIN 2 CALENDAR DAYS; THE DAY AFTER PLANING IS PREFERRED. THE COST SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE ITEM. A DISINCENTIVE IN THE AMOUNT OF $1000.00 SHALL BE ASSESSED FOR EACH DAY, OR PORTION THEREOF, THAT A PLANED SURFACES OPEN TO TRAFFIC BEYOND THIS SPECIFIED TIME LIMIT.

IN AREAS WHERE CONCRETE BASE IS ENCOUNTERED DURING PLANING OPERATION, THE CONTRACTOR SHALL NOT MILL INTO THE CONCRETE. IN THIS CASE, THE CONCRETE SURFACE WILL ONLY BE SCARIFIED.

WHERE PAVER OR COBBLESTONE BASE IS ENCOUNTERED, THE CONTRACTOR SHALL MODIFY THE PLANING DEPTH SO THAT THE PAVERS ARE NOT DISTURBED DURING THE OPERATION.

THE CONTRACTOR IS LIKELY TO ENCOUNTER OLD STREETCAR RAILS WHEN PLANING PAVEMENT, AT AN UNKNOWN DEPTH. IN THIS CASE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATELY ADJUST THE MILLING DEPTH SO AS NOT TO DISTURB THE RAILS.

ITEM 253 - PAVEMENT REPAIR

THE QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12" 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6" AND 4" 304 AGGREGATE BASE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THIS ITEM SHALL BE PERFORMED BEFORE COMMENCEMENT OF MAINLINE PAVEMENT PLANING. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATION AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS TO BE REPAIRED. PAYMENT SHALL BE BASED UPON THE ACTUAL NUMBER OF CUBIC YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. ESTIMATED AREAS OF REPAIR ARE SHOWN ON THE PLAN SHEETS. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 253 - PAVEMENT REPAIR 567.3 CU YD

ADA WAIVER

AN APPROVED ADA DESIGN WAIVER IS REQUIRED ON THIS PROJECT. THE FOLLOWING FEATURES LISTED BELOW CANNOT FEASIBLY BE CONSTRUCTED TO MEET ADA GUIDELINES.

ADA FEATURE	APPROVAL DATE	SHEET NUMBER
RMP0027456	9/10/2024	24
RMP0027457	9/10/2024	25
RMP0027460	9/10/2024	29
RMP0027461	9/10/2024	30
RMP0027462	9/10/2024	31
RMP0027465	9/10/2024	34
RMP0027492	9/10/2024	35
RMP0027466	9/10/2024	36
RMP0027468	9/10/2024	38
RMP0027493	9/10/2024	40
RMP0027493	9/10/2024	41
RMP0027471	9/10/2024	NOT SHOWN
RMP0027472	9/10/2024	NOT SHOWN
RMP0027473	9/10/2024	43
RMP0027474	9/10/2024	44
RMP0027494	9/10/2024	44
RMP0027475	9/10/2024	45
RMP0027476	9/10/2024	46
RMP0027495	9/10/2024	47
RMP0027477	9/10/2024	49
RMP0027478	9/10/2024	NOT SHOWN
RMP0027479	9/10/2024	51
RMP0027496	9/10/2024	51
RMP0027481	9/10/2024	53
RMP #68	TBD	54
RMP #69	TBD	54

RIGHT-OF-WAY PERMIT (CITY OF CINCINNATI)

PRIOR TO ANY WORK WITHIN CITY OF CINCINNATI RIGHT-OF-WAY, THE CONTRACTOR SHALL SUBMIT A PERMIT APPLICATION. THIS APPLICATION CAN BE FOUND AT THE FOLLOWING ADDRESS:

HTTPS://WWW.CINCINNATI-OH.GOV/DOTE/PERMITS-LICENSES/DOTE-RESOURCE-PAGE/ACCESSING-THE-RIGHT-OF-WAY-PERMITS/GENERAL PERMIT/

ALL FEES FOR SAID PERMIT WILL BE WAIVED BY THE CITY OF CINCINNATI.

ITEM 614 - MAINTAINING TRAFFIC

THE PROPOSED WORK SHALL BE PERFORMED WITH THE LEAST INCONVENIENCE AND MAXIMUM SAFETY AFFORDED TO THE TRAVELING PUBLIC AND WORKERS. ANY VARIANCES FROM THE PERMITTED REQUIREMENTS MUST BE APPROVED IN ADVANCE, IN WRITING, BY THE CITY. EXCEPT AS MODIFIED BELOW, THE REQUIREMENTS FOR MAINTAINING TRAFFIC AS INDICATED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL SHALL APPLY. IN ADDITION TO ITEM 614, MAINTAINING TRAFFIC, AS SET FORTH IN THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE WORK CARRIED OUT WITHIN THE LIMITS OF THE PROJECT:

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES.

TEMPORARY DETECTION DURING CONSTRUCTION WILL BE NECESSARY FOR THE PROPER OPERATION OF SIGNALS AT SIGNALIZED INTERSECTIONS.

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCING SCHEDULE PRIOR TO WORK BEGINNING FOR APPROVAL BY THE CITY ENGINEER. THE CONSTRUCTION SEQUENCING SHALL TAKE INTO CONSIDERATION ALL ASPECTS FOR THE PROJECT INCLUDING HOW LOCAL TRAFFIC TO THE BUSINESSES WILL BE MAINTAINED. THE CONSTRUCTION SEQUENCE WILL NEED TO BE APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.

ACCESS TO AND FROM ALL LOCAL RESIDENTIAL AND BUSINESS DRIVES WITHIN THE LIMITS OF THIS PROJECT SHALL BE MAINTAINED AT ALL TIMES BY USING THE EXISTING PAVEMENT, TEMPORARY PAVEMENT, AND PROPOSED PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

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

THE CONTRACTOR SHALL ADJUST THE LOCATION AND/OR SPACING OF ALL TRAFFIC CONTROL CHANNELIZING DEVICES AS DICTATED BY THE PROGRESS OF THE REQUIRED WORK TO ALLOW CONSTRUCTION ACCESS TO WORK AREAS WHILE MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL DURING ALL CONSTRUCTION OPERATIONS. ANY DAMAGE TO MAINTENANCE OF TRAFFIC EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE OR CORRECT.

THE ROADWAY SHALL NOT BE RESTRICTED TO ANY LANE CLOSURE DURING PERIODS OF INTERMITTENT OR IRREGULAR WORK, NOR CLOSED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

MEMORIAL DAY - ALL LANES OPEN 12P FRIDAY - 6A TUESDAY
FOURTH OF JULY - ALL LANES OPEN 12P THURSDAY - 6A MONDAY
LABOR DAY - ALL LANES OPEN 12P FRIDAY - 6A TUESDAY

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 621 - RAISED PAVEMENT MARKER REMOVED

IN ROADWAY AREAS TO BE RESURFACED, ALL RAISED PAVEMENT MARKERS ARE TO BE TOTALLY REMOVED AND THE PAVEMENT RESTORED AS DESCRIBED IN CONSTRUCTION AND MATERIAL SPECIFICATION ITEM 621.08.

THE FOLLOWING IS AN ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 621 - RAISED PAVEMENT MARKER REMOVED 644 EACH

GENERAL NOTES

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 4 TOTAL 77

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SHEET NUM. 8	22	23	55	56	57	58	59	60	61			PART. 02/S<2/05/NRWD	01/S>2/05	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																		ROADWAY	
222	4,639	793										5,654		202	30000	5,654	SF	WALK REMOVED	
115	618	109										842		202	32000	842	FT	CURB REMOVED	
222	1,755	345										2,322		608	12000	2,322	SF	5" CONCRETE WALK	
	2,900	499										3,399		608	52000	3,399	SF	CURB RAMP	
93	136	51										280		609	26000	280	FT	CURB, TYPE 6	
												LS		SPECIAL	69098400	LS		CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	5
																		EROSION CONTROL	
												1,000		832	30000	1,000	EACH	EROSION CONTROL	
																		DRAINAGE	
95												95		611	04400	95	FT	12" CONDUIT, TYPE B, RCP	
2												2		611	98150	2	EACH	CATCH BASIN, NO. 3	
3												3		611	98180	3	EACH	CATCH BASIN, NO. 3A	
												67		611	98630	67	EACH	CATCH BASIN ADJUSTED TO GRADE	4
	4											276		611	99654	276	EACH	MANHOLE ADJUSTED TO GRADE	4
																		PAVEMENT	
567.3												567.3		253	02000	567.3	CY	PAVEMENT REPAIR	4
9	50	8										67		253	02001	67	CY	PAVEMENT REPAIR, AS PER PLAN	3
82,629													82,629	254	01000	82,629	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3" DEPTH	
9,502													9,502	407	20000	9,502	GAL	NON-TRACKING TACK COAT	3
3,443													3,443	442	20000	3,443	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	3
3,443													3,443	442	20100	3,443	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448)	3
																		WATER WORK	
												127		638	10800	127	EACH	VALVE BOX ADJUSTED TO GRADE	
																		OTHER UTILITIES	
	2	1										3		SPECIAL	61199700	3	EACH	GAS VALVE BOX ADJUSTED TO GRADE	4
																		TRAFFIC CONTROL	
												108	428	621	00100	536	EACH	RPM	
													644	621	54000	644	EACH	RAISED PAVEMENT MARKER REMOVED	4
									48			48		630	02100	48	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
									35			35		630	79500	35	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
									122.7			122.7		630	80100	122.7	SF	SIGN, FLAT SHEET	
									2			2		630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
									1			1		630	86002	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
									59			59		630	87500	59	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
		1										1		630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
									1			1		631	94490	1	EACH	REMOVAL, MISC.: SIGN FLASHER ASSEMBLY	61
				0.15									0.15	642	00200	0.15	MILE	LANE LINE, 4", TYPE 1	
			0.05										0.05	642	00300	0.05	MILE	CENTER LINE, TYPE 1	
				129									129	642	00400	129	FT	CHANNELIZING LINE, 8", TYPE 1	
				72									72	642	00500	72	FT	STOP LINE, TYPE 1	
					8								8	642	01300	8	EACH	LANE ARROW, TYPE 1	
			67										67	642	01500	67	FT	DOTTED LINE, 4", TYPE 1	
							2.28					2.28		644	00100	2.28	MILE	EDGE LINE, 4"	
				2.45								0.13	2.32	644	00200	2.45	MILE	LANE LINE, 4"	
			1.89									0.33	1.56	644	00300	1.89	MILE	CENTER LINE, DOUBLE YELLOW	
			0.68									0.57	0.11	644	00300	0.68	MILE	CENTER LINE,TWLT PROHIBITED LEFT	
			0.67									0.57	0.1	644	00300	0.67	MILE	CENTER LINE,TWLT PROHIBITED RIGHT	
				3,085								710	2,375	644	00400	3,085	FT	CHANNELIZING LINE, 8"	
				784								184	600	644	00500	784	FT	STOP LINE	
						5,627						1,709	3,918	644	00630	5,627	FT	CROSSWALK LINE, 24"	
							3,163					182	2,981	644	00700	3,163	FT	TRANSVERSE/DIAGONAL LINE, 24", YELLOW	
							1,093					1,093		644	00700	1,093	FT	TRANSVERSE/DIAGONAL LINE, 24", WHITE	
						808						36	772	644	00900	808	SF	ISLAND MARKING	
				716									716	644	01200	716	FT	PARKING LOT STALL MARKING	
					107							57	50	644	01300	107	EACH	LANE ARROW	
								8				8		644	01400	8	EACH	WORD ON PAVEMENT, 72"	

GENERAL SUMMARY

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 6 TOTAL 77

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:15:49 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GG001.dgn

SHEET NUM. 5	22	23	55	60	77							PART. 02/S<2/05/NRWD	01/S>2/05	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
			1,455									1,314	141	644	01500	1,455	FT	DOTTED LINE, 4", WHITE	
			270									270		644	01500	270	FT	DOTTED LINE, 4", YELLOW	
				29								29		644	01630	29	EACH	BIKE LANE SYMBOL MARKING	
				37								10	27	644	19000	37	EACH	SHARED LANE MARKING	
																		TRAFFIC SIGNALS	
	7	2										9		625	31600	9	EACH	PULL BOX, MISC.: PULL BOX ADJUSTED TO GRADE	4
					3							3		630	79000	3	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	
					1							1		630	87101	1	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION, AS PER PLAN	74
					20							20		630	80100	20	SF	SIGN, FLAT SHEET	
					1							1		630	87400	1	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
					2							2		632	90201	2	EACH	REUSE OF VEHICULAR SIGNAL HEAD, AS PER PLAN	74
					2							2		632	25000	2	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
					1							1		632	90400	1	EACH	SIGNALIZATION, MISC.:REPROGRAM EXISTING CONTROLLER	74
					1							1		632	05065	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, NO BACKPLATE	74
					1							1		632	05087	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, NO BACKPLATE	74
												600		632	40701	600	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN	74
				21								21		632	26501	21	EACH	DETECTOR LOOP, AS PER PLAN	4
				21								21		632	27200	21	EACH	LOOP DETECTOR TIE IN	
					2							2		809	69101	2	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	74
																		MAINTENANCE OF TRAFFIC	
300												300		614	11110	300	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	5
7.1												7.1		614	20100	7.1	MILE	WORK ZONE LANE LINE, CLASS I, 4", 642 PAINT	5
2.38												2.38		614	20550	2.38	MILE	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	5
5.12												5.12		614	21100	5.12	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	5
0.68												0.68		614	21100	0.68	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT, TWLT PROHIBITED LEFT	5
0.74												0.74		614	21100	0.74	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT, TWLT PROHIBITED RIGHT	5
1.81												1.81		614	21550	1.81	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	5
0.66												0.66		614	21550	0.66	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT, TWLT PROHIBITED LEFT	5
0.63												0.63		614	21550	0.63	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT, TWLT PROHIBITED RIGHT	5
2.4												2.4		614	22100	2.4	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	5
2.4												2.4		614	22350	2.4	MILE	WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	5
7,162												7,162		614	23200	7,162	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	5
3,481												3,481		614	23680	3,481	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	5
234												234		614	24204	234	FT	WORK ZONE DOTTED LINE, CLASS I, 8", 642 PAINT	5
1,555												1,555		614	24614	1,555	FT	WORK ZONE DOTTED LINE, CLASS III, 8", 642 PAINT	5
10,756												10,756		614	27050	10,756	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT, PARALLEL LINES	5
320												320		614	27060	320	FT	WORK ZONE CROSSWALK LINE, CLASS I, 24", 642 PAINT, PARALLEL LINES	5
5,627												5,627		614	27260	5,627	FT	WORK ZONE CROSSWALK LINE, CLASS III, 24", 642 PAINT	5
170												170		614	30200	170	EACH	WORK ZONE ARROW, CLASS I, 642 PAINT	5
85												85		614	30650	85	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	5
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	4
												LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY
PLAN PREPARED BY:
TTEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 7 TOTAL 77

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:15:50 PM USER: ahautman
\\10.1.1.4\Projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GG002.dgn

STATION FROM	STATION TO	SHEET	FULL DEPTH PAVEMENT REPAIR	254 PAVEMENT PLANING, ASPHLAT CONCRETE (3" THICK)	407 NON-TRACKING TACK COAT (0.04 GAL/SY)	407 NON-TRACKING TACK COAT (0.075 GAL/SY)	442 ASPHLAT CONCRETE SURFACE COURSE , 12.5mm, TYPE B (1.5" THICK)	442 ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5mm, TYPE A (1.5" THICK)
			CY	SY	GAL	GAL	CY	CY
253+16	257+50	9	4	2458	98	184	102	102
257+50	262+50	9	18	3199	128	240	133	133
262+50	267+50	10	13	3114	125	234	130	130
267+50	272+50	10	6	2881	115	216	120	120
272+50	277+50	11	18	2962	118	222	123	123
277+50	282+50	11	29	3110	124	233	130	130
282+50	287+50	12	13	3037	121	228	127	127
287+50	292+50	12	8	4001	160	300	167	167
292+50	297+50	13	11	2798	112	210	117	117
297+50	302+50	13	5	3340	134	251	139	139
302+50	307+50	14	6	3602	144	270	150	150
307+50	312+50	14	7	4121	165	309	172	172
312+50	317+50	15	2	3547	142	266	148	148
317+50	322+50	15		3966	159	297	165	165
322+50	327+50	16	7	2959	118	222	123	123
327+50	332+50	16		3519	141	264	147	147
332+50	337+50	17	7	3262	130	245	136	136
337+50	342+50	17	15	3271	131	245	136	136
342+50	347+50	18	7	3025	121	227	126	126
347+50	352+50	18		3153	126	236	131	131
352+50	357+50	19	6	2955	118	222	123	123
357+50	362+50	19	3	2950	118	221	123	123
362+50	367+50	20	8	2861	114	215	119	119
367+50	372+50	20	4	3019	121	226	126	126
372+50	377+50	21	19	2897	116	217	121	121
377+50	382+00	21		2620	105	197	109	109
TOTALS CARRIED TO GENERAL SUMMARY			216	82629	3305	6197	3443	3443

REF	SHEET	STATION	611 12" CONDUIT, TYPE B, RCP	611 CATCH BASIN, NO. 3	611 CATCH BASIN, NO. 3A	202 CURB REMOVED	202 WALK REMOVED	253 PAVEMENT REPAIR	608 5" CONCRETE WALK	609 CURB, TYPE 6
			FT	EACH	EACH	FT	SF	SY	SF	FT
D-1	18	354+18.6		1						
D-2	18	352+04.9			1					
D-3	19	355+82.2			1					
D-4	20	365+10.7		1						
D-5	20	365+45.4			1					
	18	345+02.9 TO 345+16.1	14			22	40	8	40	16
	18	351+77.8 TO 352+04.9	27			30	78	4	78	27
	19	355+61.4 TO 355+66.0	15			12	60	3	60	9
	20	365+13.1 TO 365+36.3	24			31	36	7	36	25
	20	365+39.2 TO 365+45.2	15			20	8	5	8	17
TOTALS CARRIED TO GENERAL SUMMARY			95	2	3	115	222	27	222	93

PAVEMENT AND DRAINAGE SUBSUMMARY

DESIGN AGENCY

PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 8 TOTAL 77

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:15:51 PM USER: ahautman
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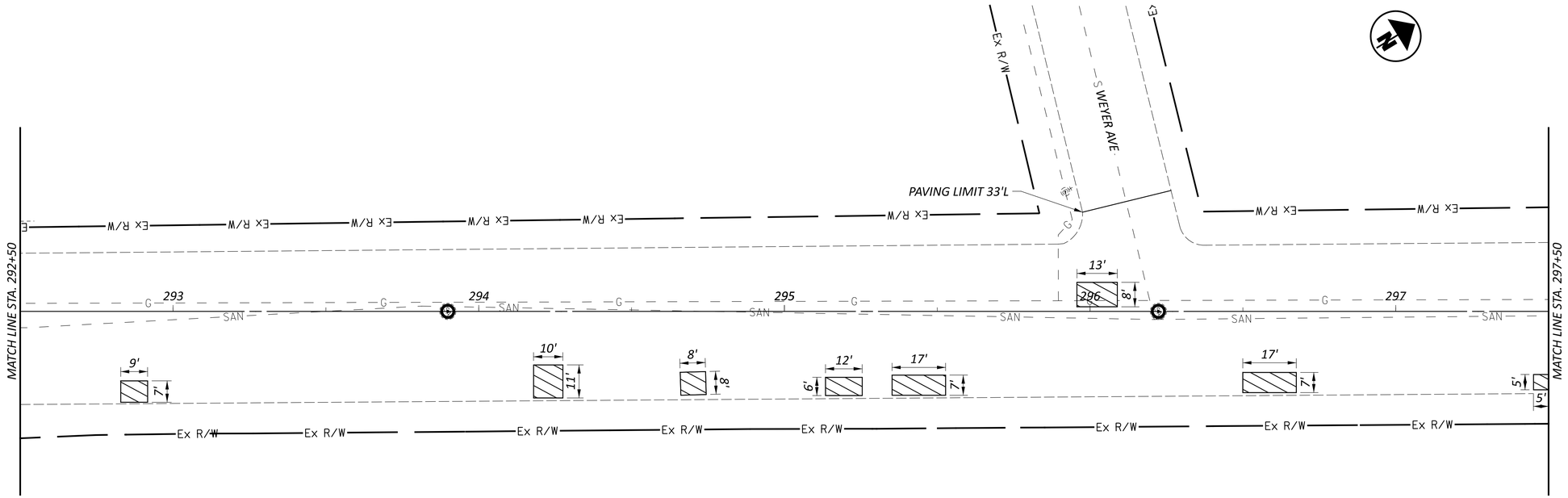

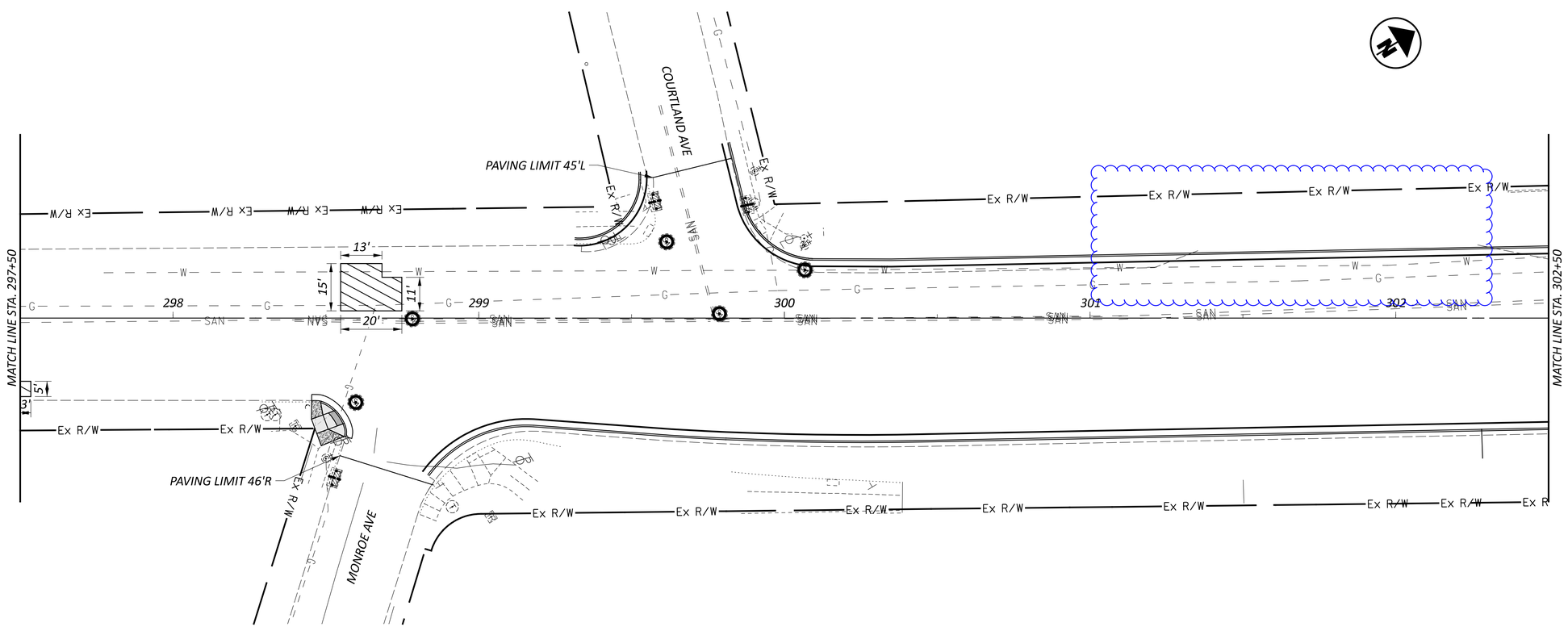

HORIZONTAL SCALE IN FEET
0 10 20 40

RESURFACING PLAN
STA. 292+50.0 TO 302+50.0

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 13 TOTAL 77

HAM-US22-4.807

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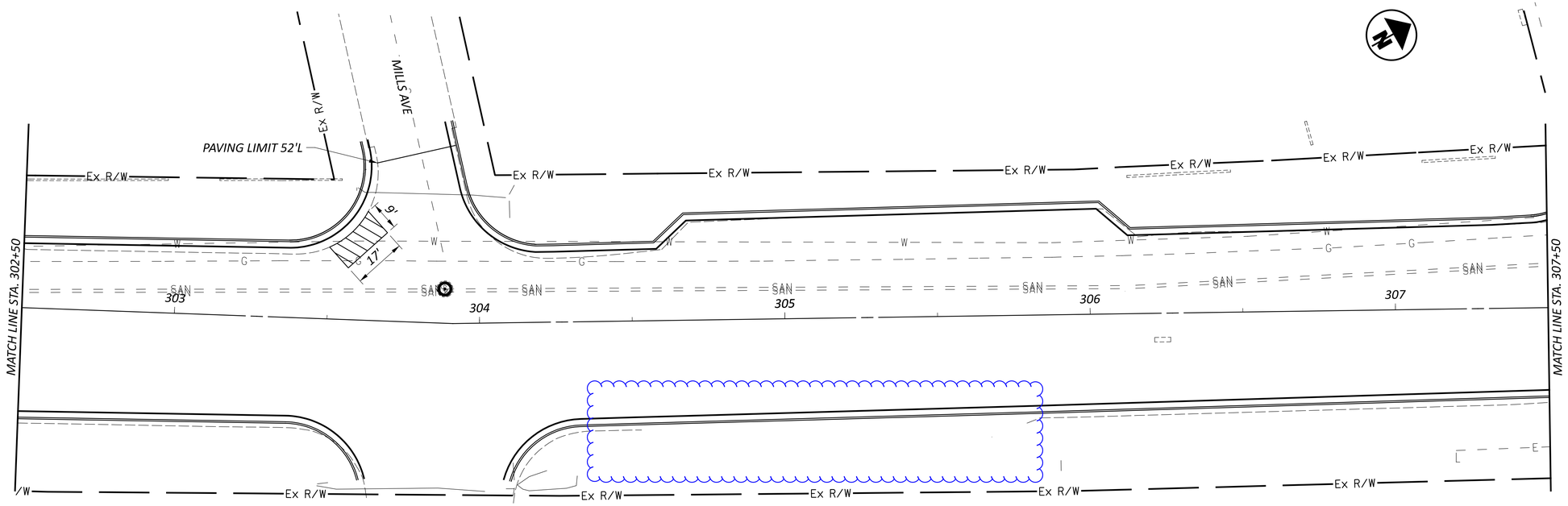

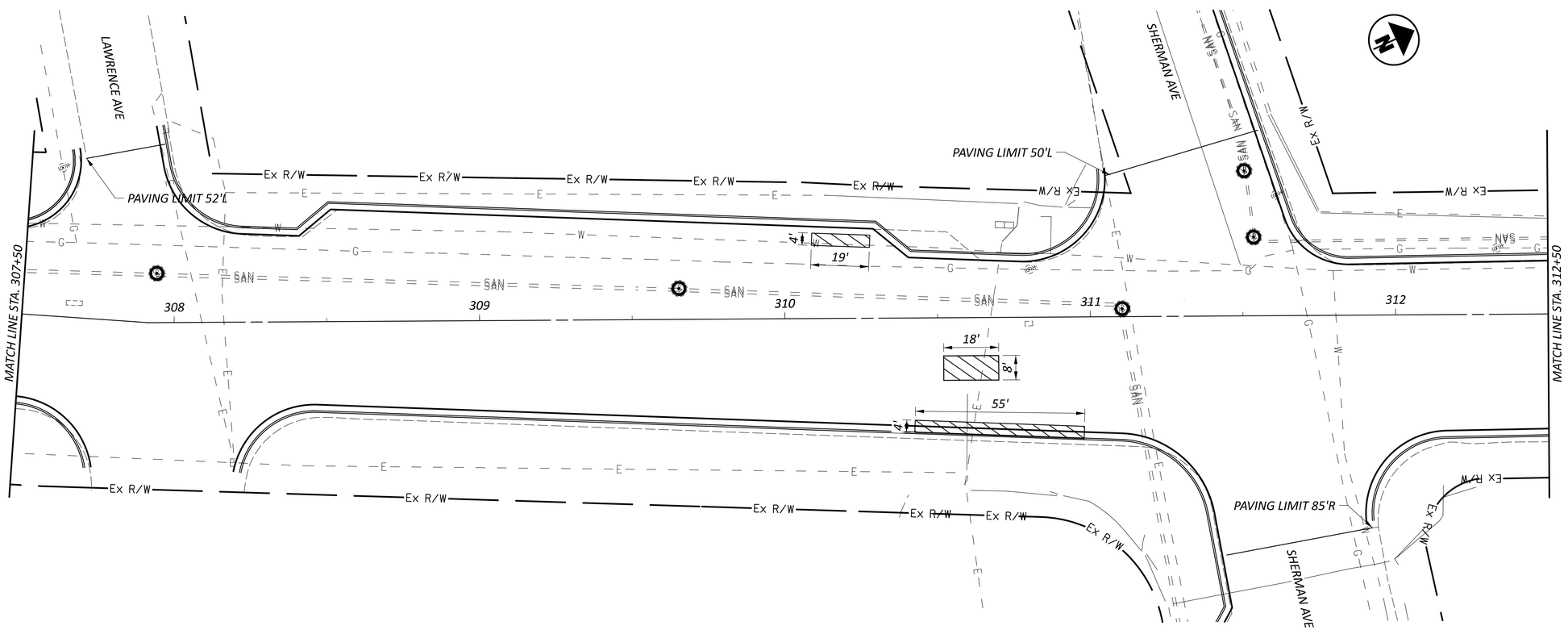

HORIZONTAL SCALE IN FEET
0 10 20 40

RESURFACING PLAN
STA. 302+50.0 TO 312+50.0

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 14 TOTAL 77

HAM-US22-4.807

MODEL: CLP_2 - Plan 11 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:15:56 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GP001.dgn

CURB RAMP SUBSUMMARY

REF. NO.	SHEET NO.	INTERSECTION	CORNER	202 WALK REMOVED (SF)	202 CURB REMOVED (FT)	253 PAVEMENT REPAIR, AS PER PLAN (CY)	608 5" CONCRETE WALK (SQ FT)	608 CURB RAMP (SQ FT)	609 CURB, TYPE 6 (FT)	611 SPECIAL: GAS VALVE - ADJUSTED TO GRADE	611 MANHOLE: ADJUST TO GRADE (EACH)	625 PULL BOX, MISC.: PULL BOX ADJUSTED TO GRADE (EACH)
1	24	MONTGOMERY-LEXINGTON	S	146	17	1	67	88				
2			NW	DO NOT DISTURB - WAIVER								
3			NE	180	28	2	100	80	12			
4	25	MONTGOMERY-CLENEAY	SW	DO NOT DISTURB - WAIVER								
5			SE	128	15	1	72	56				
6			W	132	3	1	51	81	3		1	
7	26		NW	228	25	2	91	137				1
8			NE	144	25	2	66	78				1
9	27	MONTGOMERY-WAYLAND	SE	168	24	2	62	106				
10			NE	173	16	2	98	75				
11	28	MONTGOMERY-KRUG	SW	166	25	2	78	88	5	1		
12			NW	148	27	2	55	93				
13	29	MONTGOMERY-PRENTISS	SE	DO NOT DISTURB - WAIVER								
14			NE	141	6	2	59	81				
15	30	MONTGOMERY-WILLIAMS	SW	DO NOT DISTURB - WAIVER								
16			NW	112	15	1	67	45				
17	31	MONTGOMERY-WAVERLY	S	DO NOT DISTURB - EXISTING CURB RAMP COMPLIANT								
18			N	DO NOT DISTURB - WAIVER								
19	32	MONTGOMERY-SLANE	S	107	14	1	48	60				
20			N	80	15	1		80				
21	33	MONTGOMERY-DELAWARE	S	126	23	2	34	92	8			
22			N	151	26	2		151				
23	34	MONTGOMERY-CAMERON	S	DO NOT DISTURB - WAIVER								
24			N	111	19	1		111		1		
25	35	MONTGOMERY-LAFAYETTE	S	103	19	1		108				
26			N	DO NOT DISTURB - WAIVER								
27	36	MONTGOMERY-HOPKINS	SW	DO NOT DISTURB - WAIVER								
28			NW	152	15	1	52	101	1			1
29			NE	147	15	1	70	77	1			1
30	37	MONTGOMERY-ASHLAND	SE	86	11	1	34	52				
31			NE	145	23	2	53	92				
32	38	MONTGOMERY-WANDA	SW	DO NOT DISTURB - WAIVER								
33			NW	DO NOT DISTURB - EXISTING CURB RAMP COMPLIANT								
34	39	MONTGOMERY-MONROE	SE	114	19	2	43	71	3			
35			NE	DO NOT DISTURB - WORK PERFORMED BY OTHERS								
36	41	MONTGOMERY-NORWOOD	SW	DO NOT DISTURB - WAIVER								
37			NW	245	34	3	50	195	5			
38	40		SE	DO NOT DISTURB - WAIVER								
39			NE	323	30	2	88	235	44			1
40		MONTGOMERY-CHRIST HOSP. PHYS.	SW	DO NOT DISTURB - WAIVER								
41			NW	DO NOT DISTURB - WAIVER								
42	42	MONTGOMERY-HIGHLAND	SE	135	18	1	64	71	6			
43			NE	97	17	1	37	60	5			
44	43	MONTGOMERY-ROSS	NE	DO NOT DISTURB - WAIVER								
45	44	MONTGOMERY-BUXTON	SE	DO NOT DISTURB - WAIVER								
46			NE	DO NOT DISTURB - WAIVER								
47	45	MONTGOMERY-SHERWOOD	SE	DO NOT DISTURB - WAIVER								
48			NE	147	21	2	65	82	12		1	
49	46	MONTGOMERY-FENWICK	NW	DO NOT DISTURB - EXISTING CURB RAMP COMPLIANT								
50			NE	DO NOT DISTURB - WAIVER								
51	47	MONTGOMERY-INDIAN MOUND	SW	147	17	2	81	67	5			1
52			SE (N-S)	91	12	1	42	50	12		1	1
53			SE (E-W)	DO NOT DISTURB - WAIVER								
54	48	MONTGOMERY-MOELLER	NW	DO NOT DISTURB - EXISTING CURB RAMP COMPLIANT								
55			NE	129	24	2	82	46	14			
56	49	MONTGOMERY-O'BRIEN	SW	137	20	1	46	91			1	
57			SE	DO NOT DISTURB - WAIVER								
TOTALS CARRIED TO GENERAL SUMMARY				4639	618	50	1755	2900	136	2	4	7

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 22 TOTAL 77

HAM-US22-4.807

MODEL: CURB RAMP SUBSUMMARY 1 PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:16:02 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GS001.dgn

REF. NO.	SHEET NO.	INTERSECTION	CORNER	202 WALK REMOVED	202 CURB REMOVED	253 PAVEMENT REPAIR, AS PER PLAN	608 5" CONCRETE WALK	608 CURB RAMP	609 CURB, TYPE 6	611 SPECIAL: GAS VALVE - ADJUSTED TO GRADE	611 MANHOLE: ADJUST TO GRADE	625 PULL BOX, MISC.: PULL BOX ADJUSTED TO GRADE	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
				SF	FT	CY	SQ FT	SQ FT	FT	EACH	EACH	EACH	EACH
58	50	MONTGOMERY-DREX		83	14	1	40	44	2			1	
59				DO NOT DISTURB - EXISTING CURB RAMP COMPLIANT									
60				DO NOT DISTURB - WAIVER									
61	51	MONTGOMERY-SHERIDAN		DO NOT DISTURB - WAIVER									
62				DO NOT DISTURB - WAIVER									
63	52	MONTGOMERY-IRVING		166	15	1	89	77	6				
64				222	21	2	140	82	10				
65	53	MONTGOMERY-QUATMAN		116	19	1		124		1		1	
66				136	17	1	61	75					
67				DO NOT DISTURB - WAIVER									
68	54	MONTGOMERY-BOSWORTH		52	11	1	15	37					
69				18	12	1		60	14				1
TOTALS CARRIED TO GENERAL SUMMARY				793	109	8	345	499	32	1	0	2	1

CURB RAMP SUBSUMMARY

DESIGN AGENCY

PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 23 TOTAL 77

HAM-US22-4.807

MODEL: CURB RAMP SUBSUMMARY 2 PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:16:03 PM USER: ahauman
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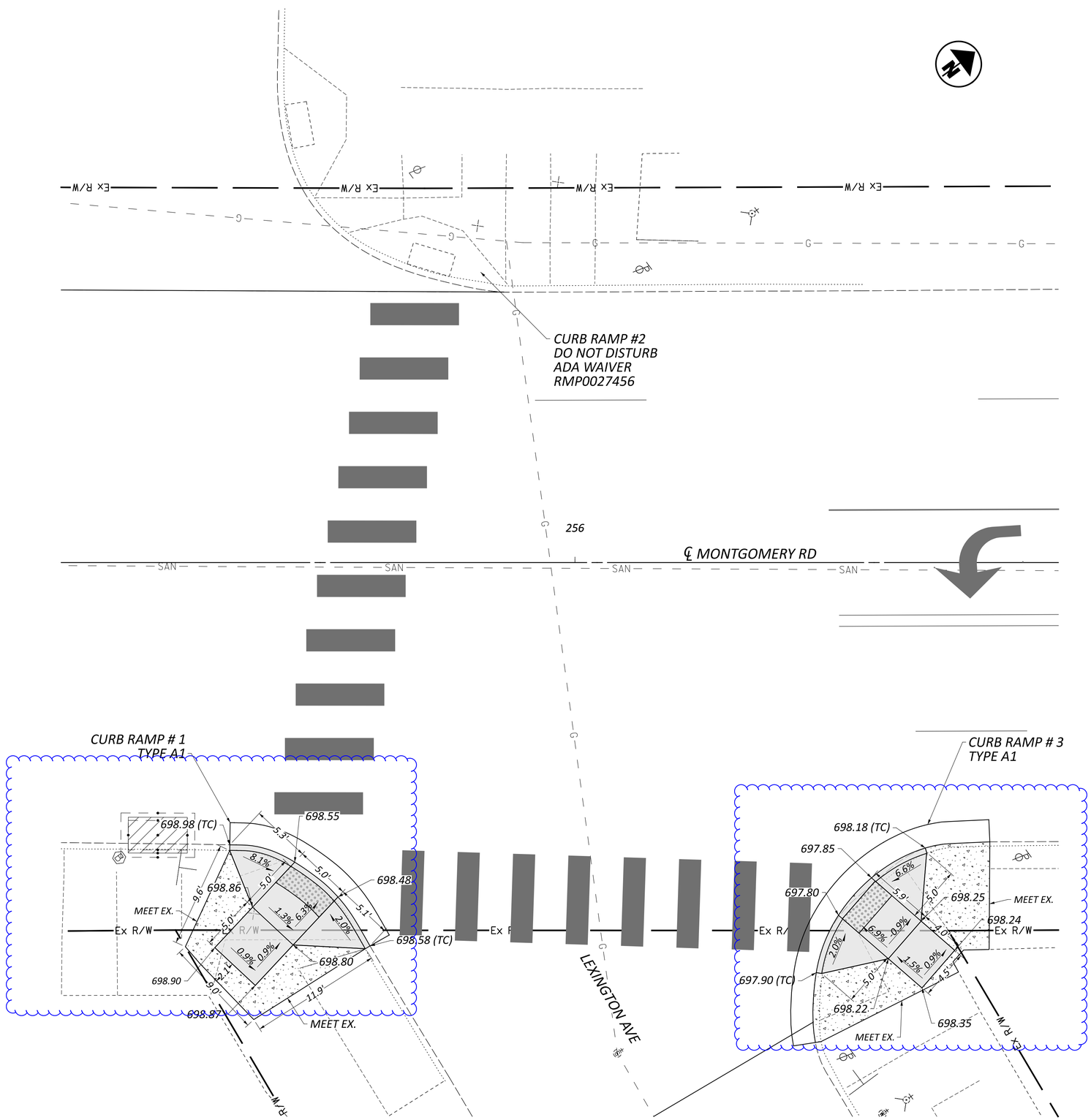

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET

0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & LEXINGTON AVE

DESIGN AGENCY

PLAN PREPARED BY:
TTE Consulting Inc.
7238 Central Parke Blvd.
Mason, OH 45040

DESIGNER: AAH

REVIEWER: DGO 03/11/25

PROJECT ID: 115747

SHEET 24 TOTAL 77

HAM-US22-4.807

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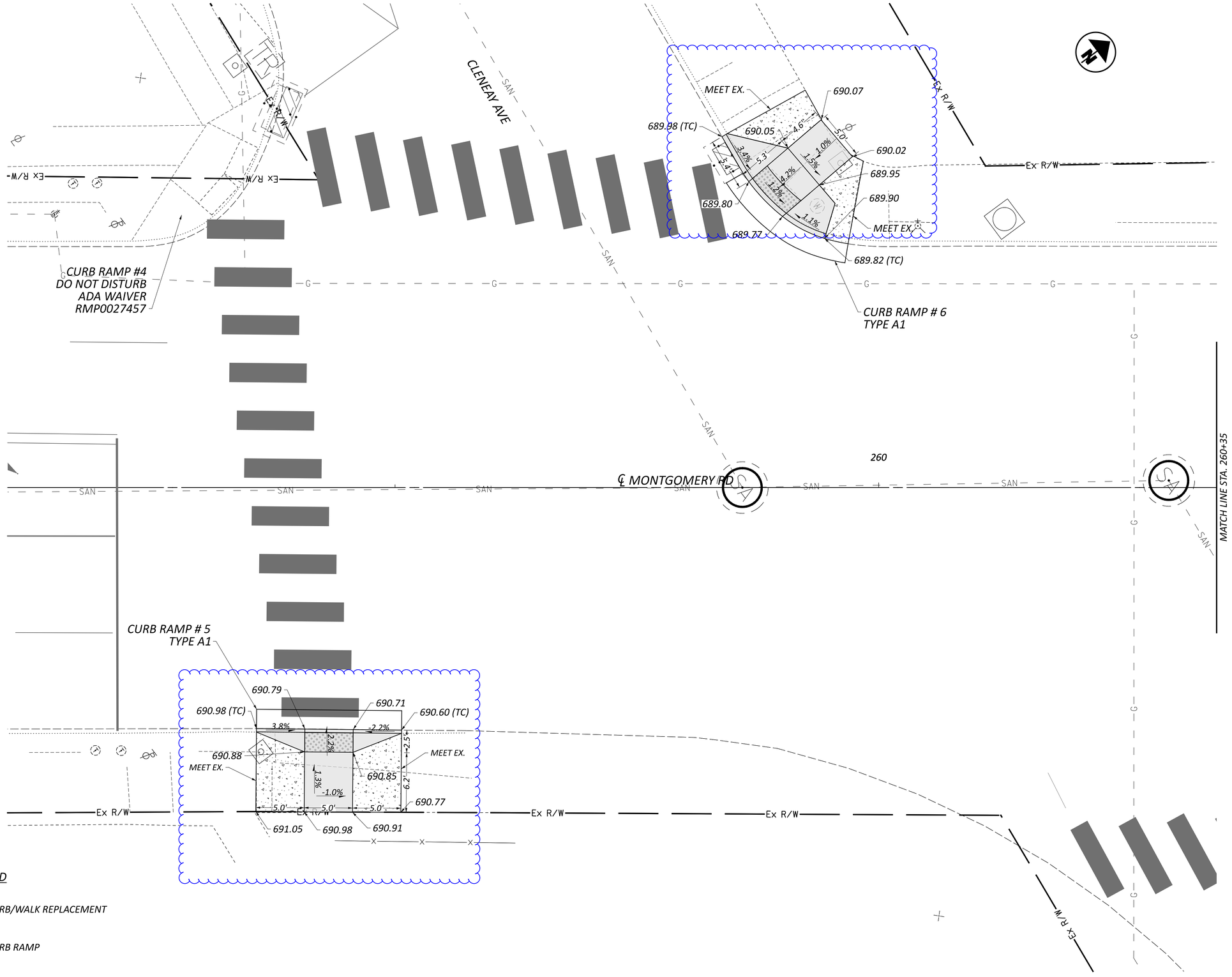

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & CLENEAY AVE

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Park Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 25 TOTAL 77

HAM-US22-4.807

MODEL: CLP_2 - Cleneay [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:06 PM USER: ahautman
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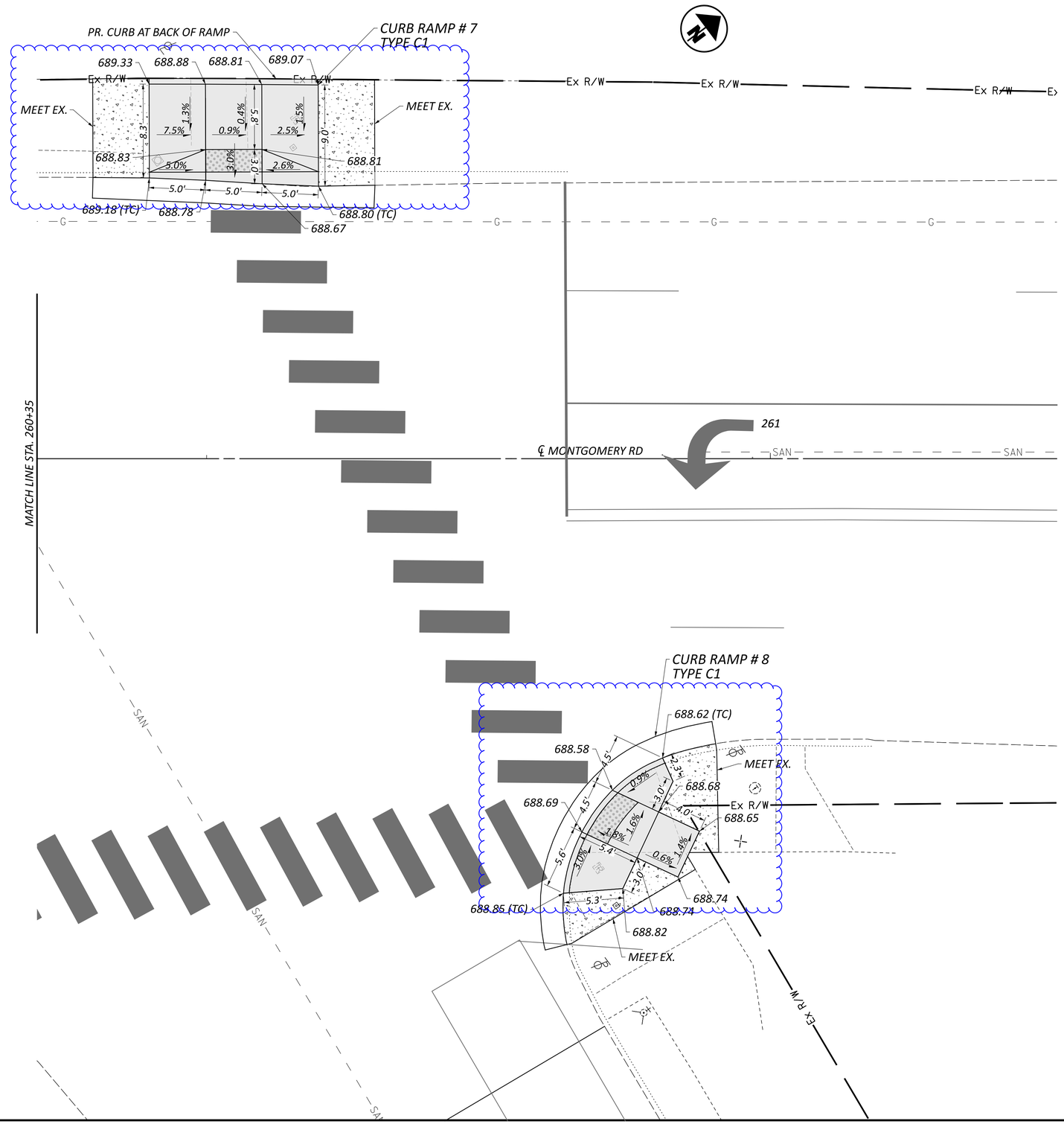

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & CLENEAY AVE

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
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Mason, OH 45040

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AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 26 TOTAL 77

HAM-US22-4.807

MODEL: CLP_2 - Cleneay-1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:07 PM USER: ahautman
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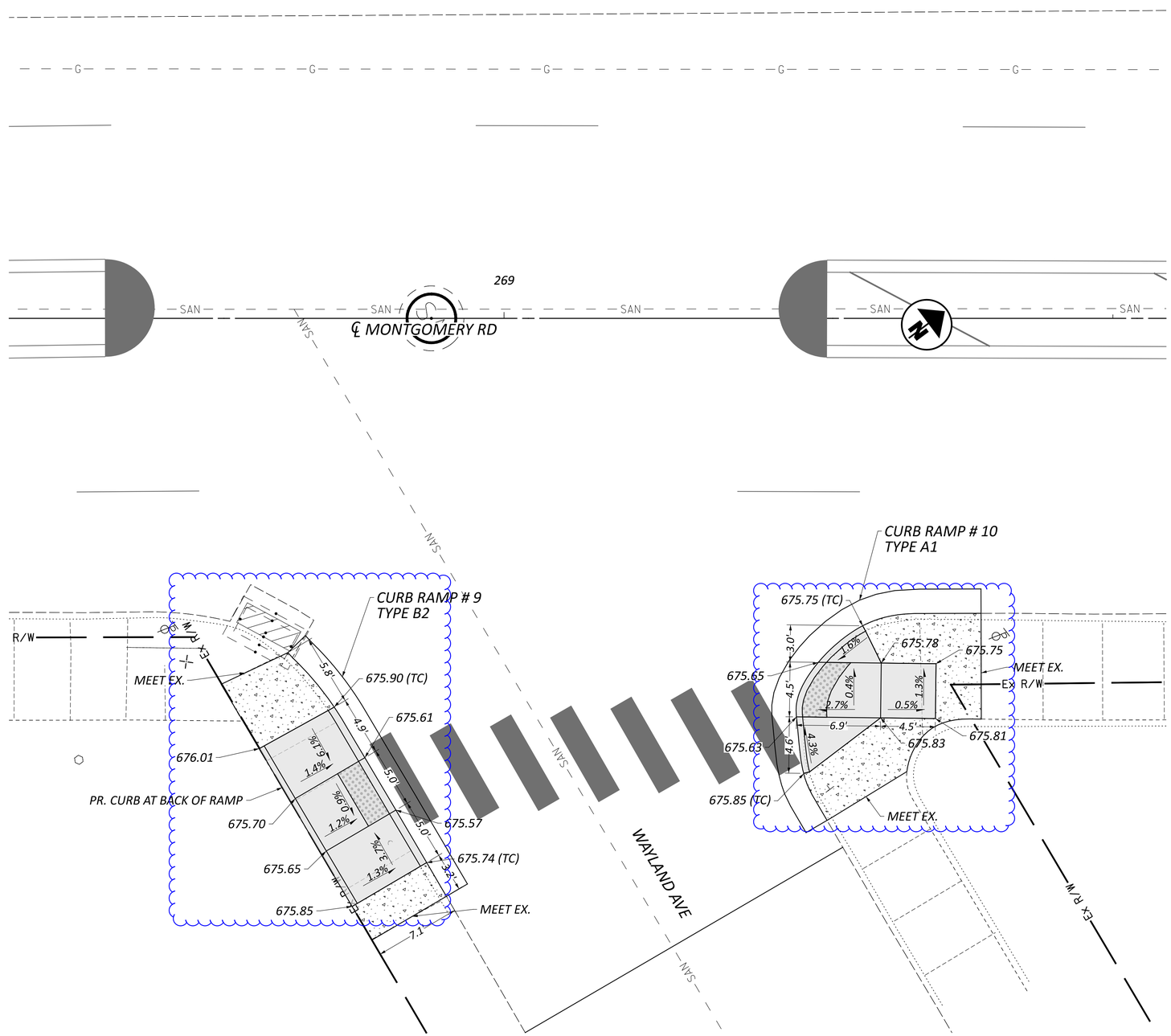

LEGEND

- PR. CURB/WALK REPLACEMENT
- PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & WAYLAND AVE

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Park Blvd.
Mason, OH 45040

DESIGNER: AAH
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 27 TOTAL 77

HAM-US22-4.807

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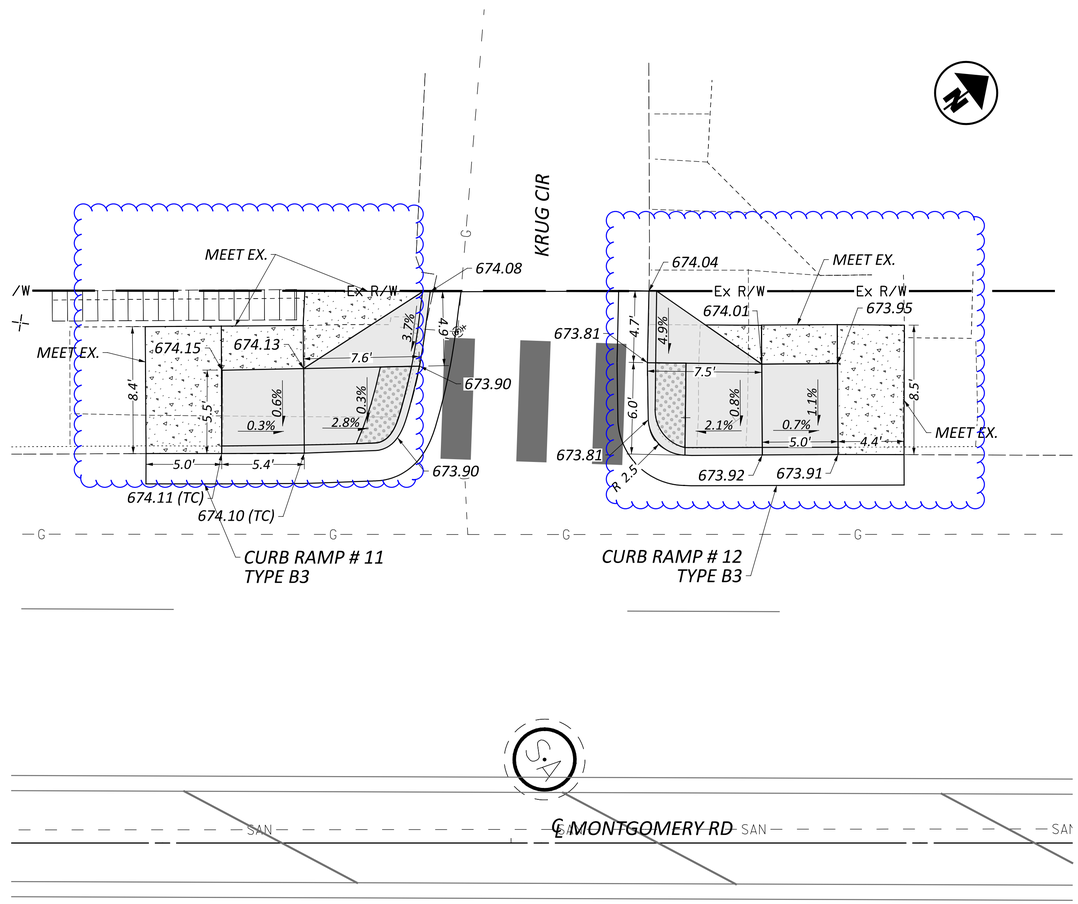

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET

0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & KRUG CIR

DESIGN AGENCY

PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 28 TOTAL 77

HAM-US22-4.807

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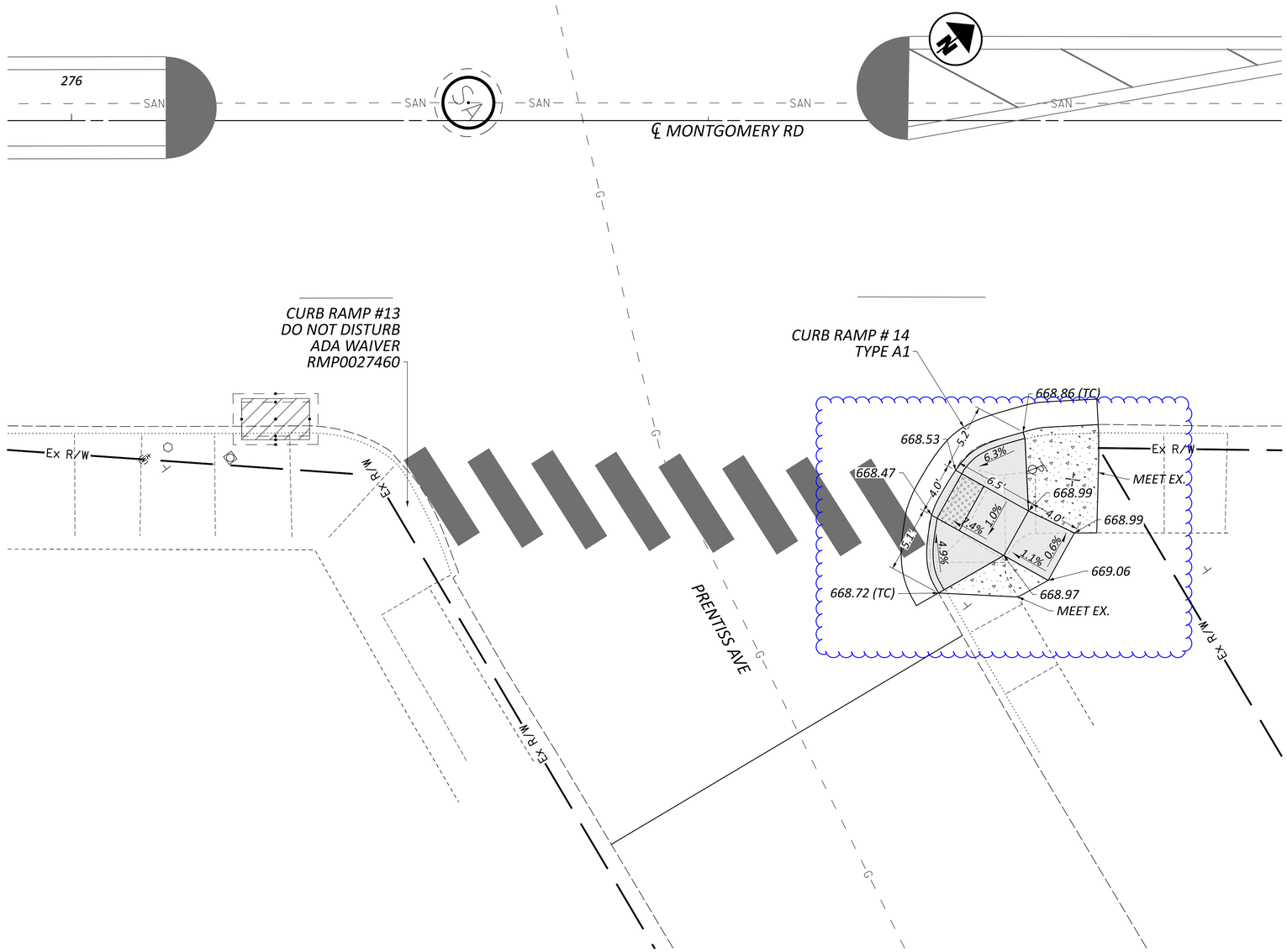

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & PRENTISS AVE

DESIGN AGENCY
PLAN PREPARED BY:
TTE Consulting Inc.
7238 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 29 TOTAL 77

HAM-US22-4.807

MODEL: CLP_5 - Prentiss [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:10 PM USER: ahautman
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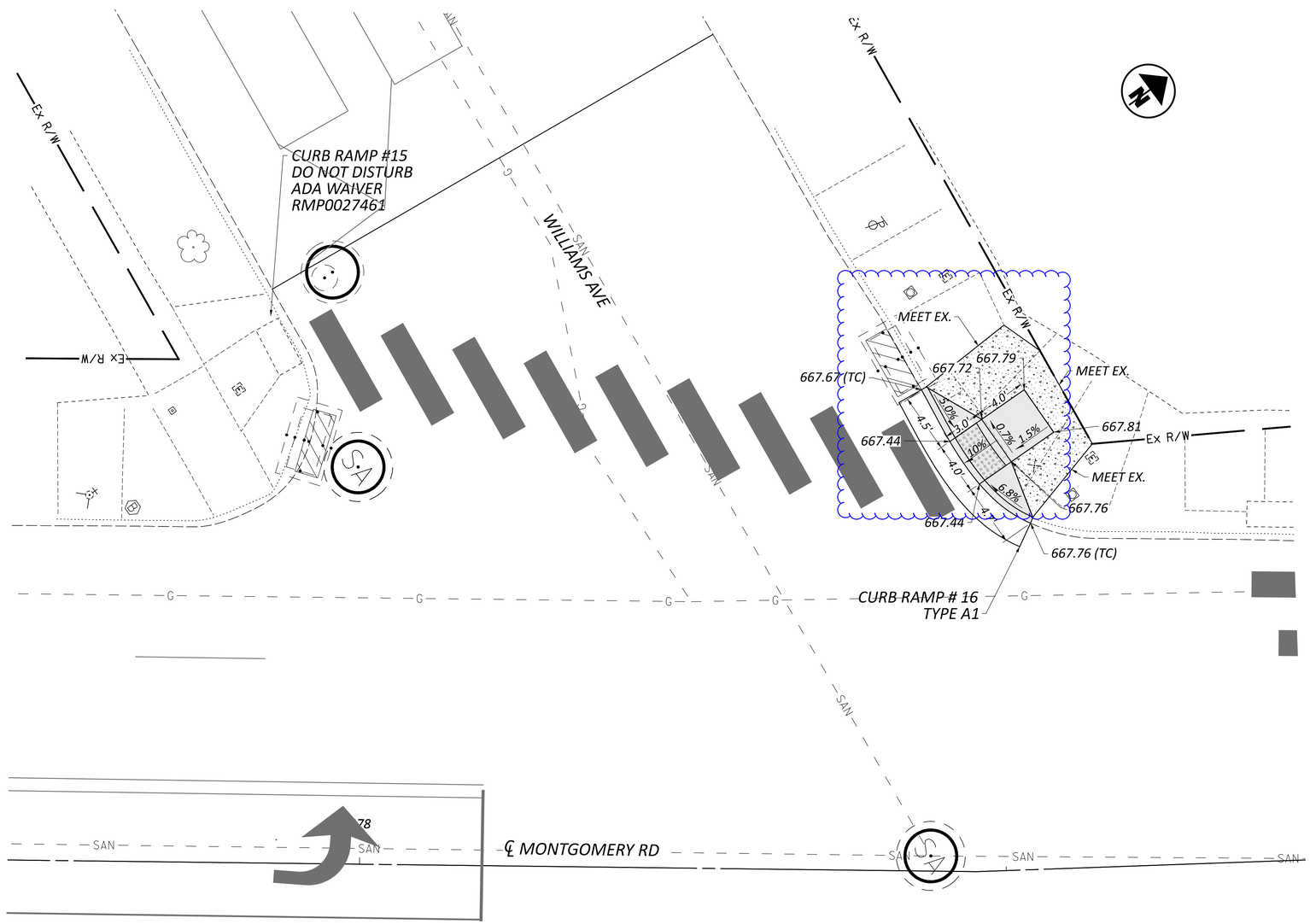

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET

0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & WILLIAMS AVE

DESIGN AGENCY

PLAN PREPARED BY:
TEC Consulting, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER: AAH

REVIEWER: DGO 03/11/25

PROJECT ID: 115747

SHEET 30 TOTAL 77

HAM-US22-4.807

MODEL: CLP_6 - Williams [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:10 PM USER: ahautman
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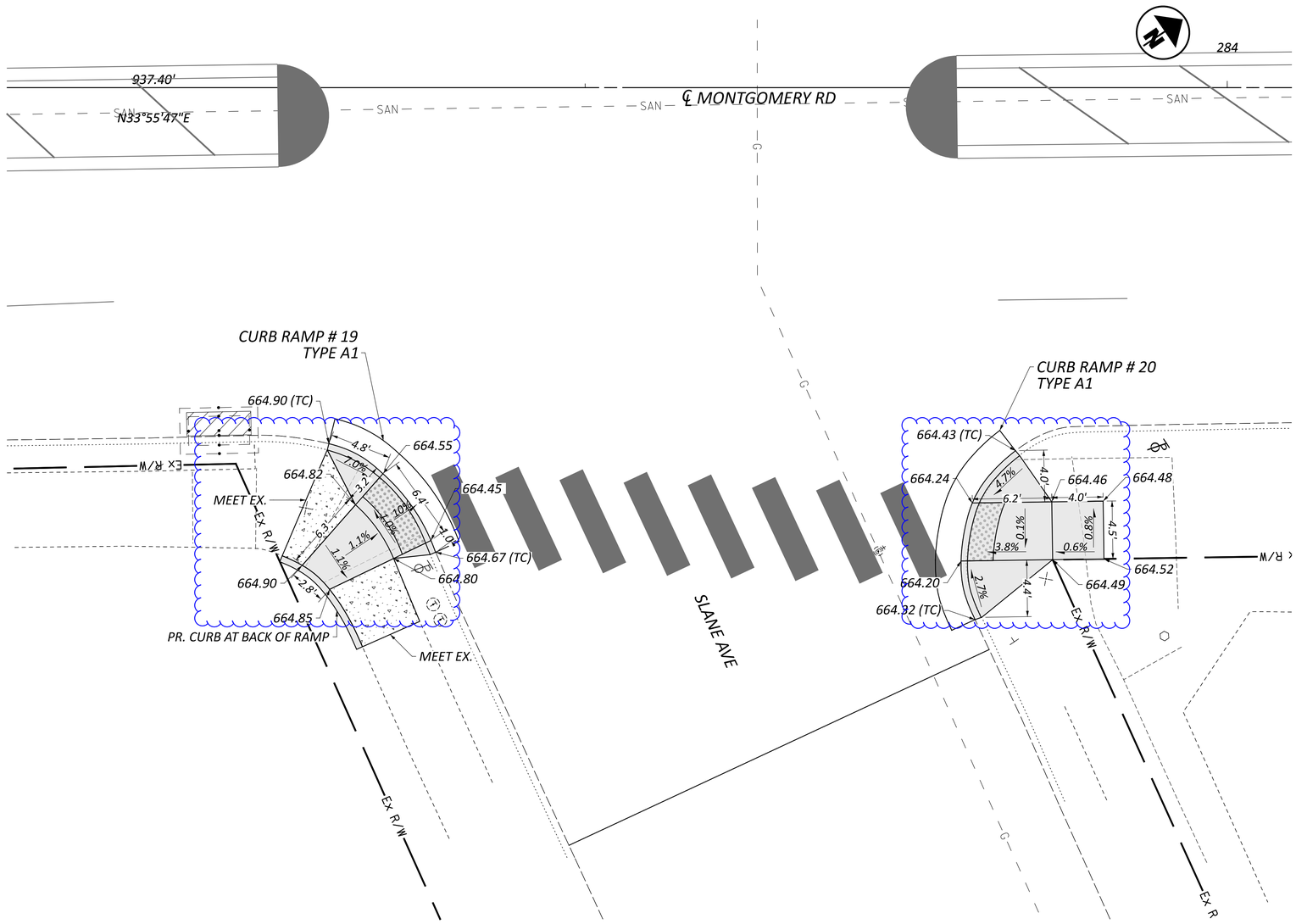

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & SLANE AVE

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Park Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 32 TOTAL 77

HAM-US22-4.807

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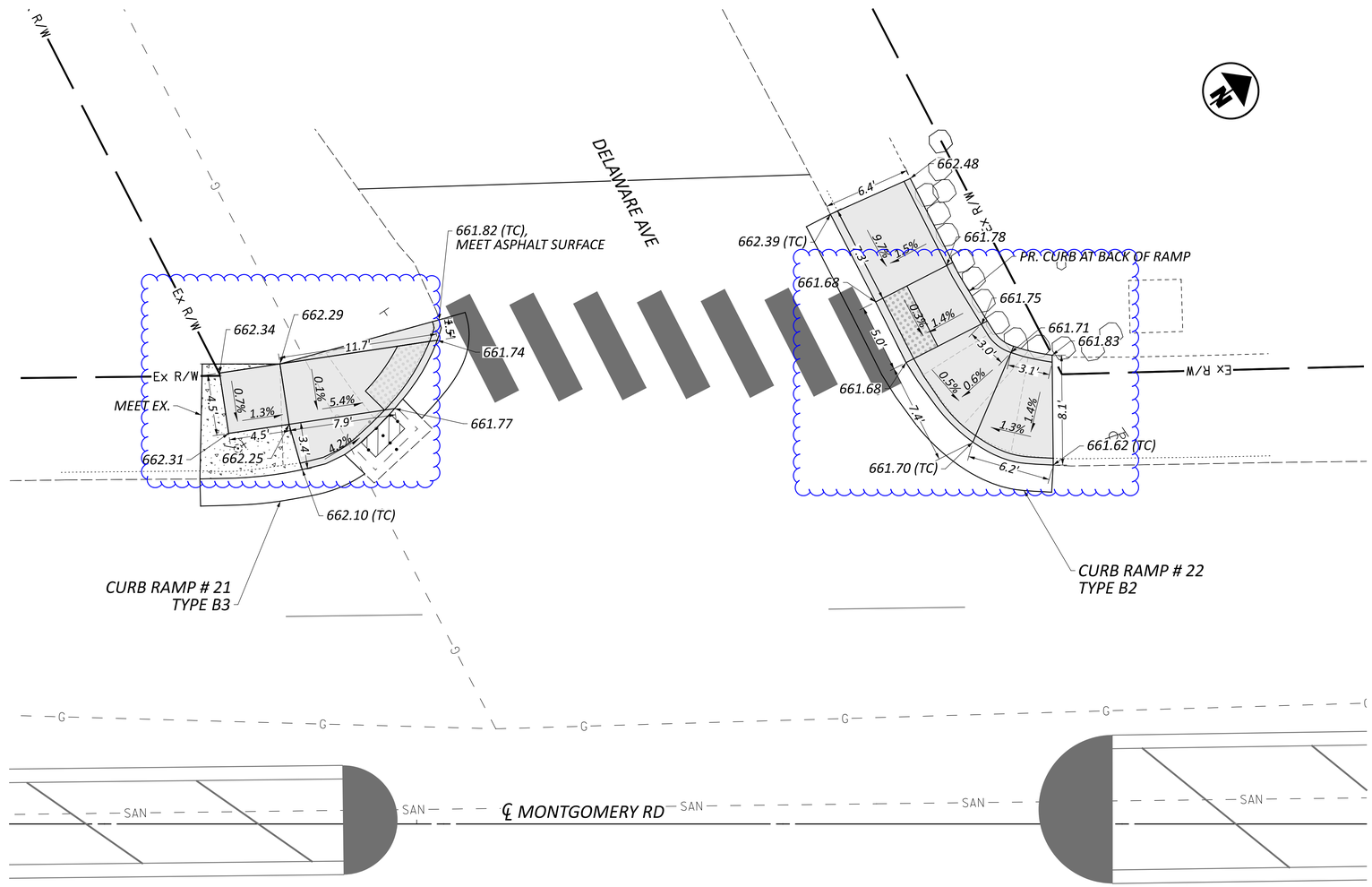

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET

0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & DELAWARE AVE

DESIGN AGENCY

PLAN PREPARED BY:
TTC Consulting, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER: AAH

REVIEWER: DGO 03/11/25

PROJECT ID: 115747

SHEET 33 TOTAL 77

HAM-US22-4.807

MODEL: CLP_9 - Delaware [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:13 PM USER: ahautman
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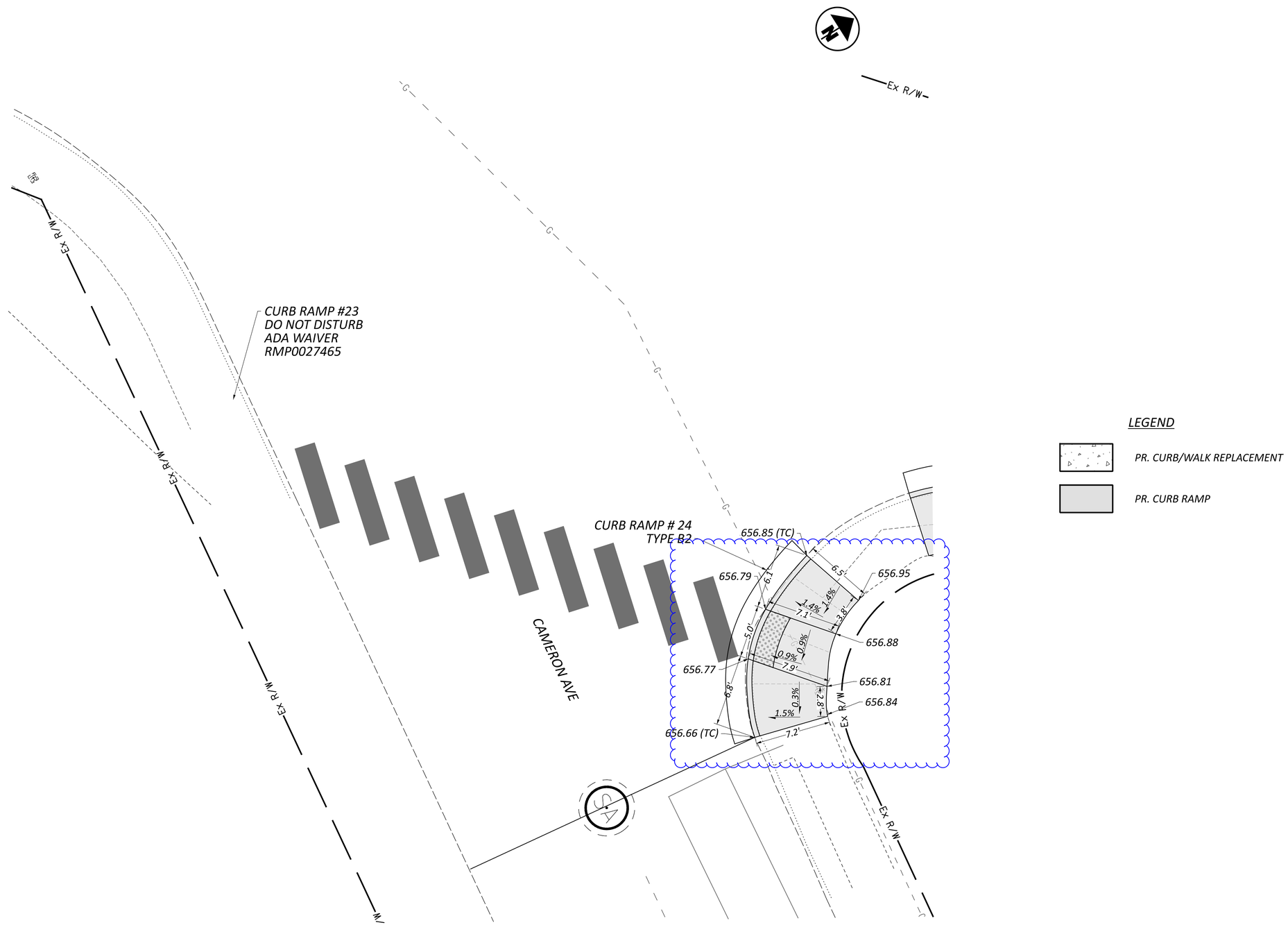

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & CAMERON AVE

DESIGN AGENCY
PLAN PREPARED BY:
TTC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 34 TOTAL 77

HAM-US22-4.807

MODEL: CLP_10 - Cameron [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:14 PM USER: ahautman
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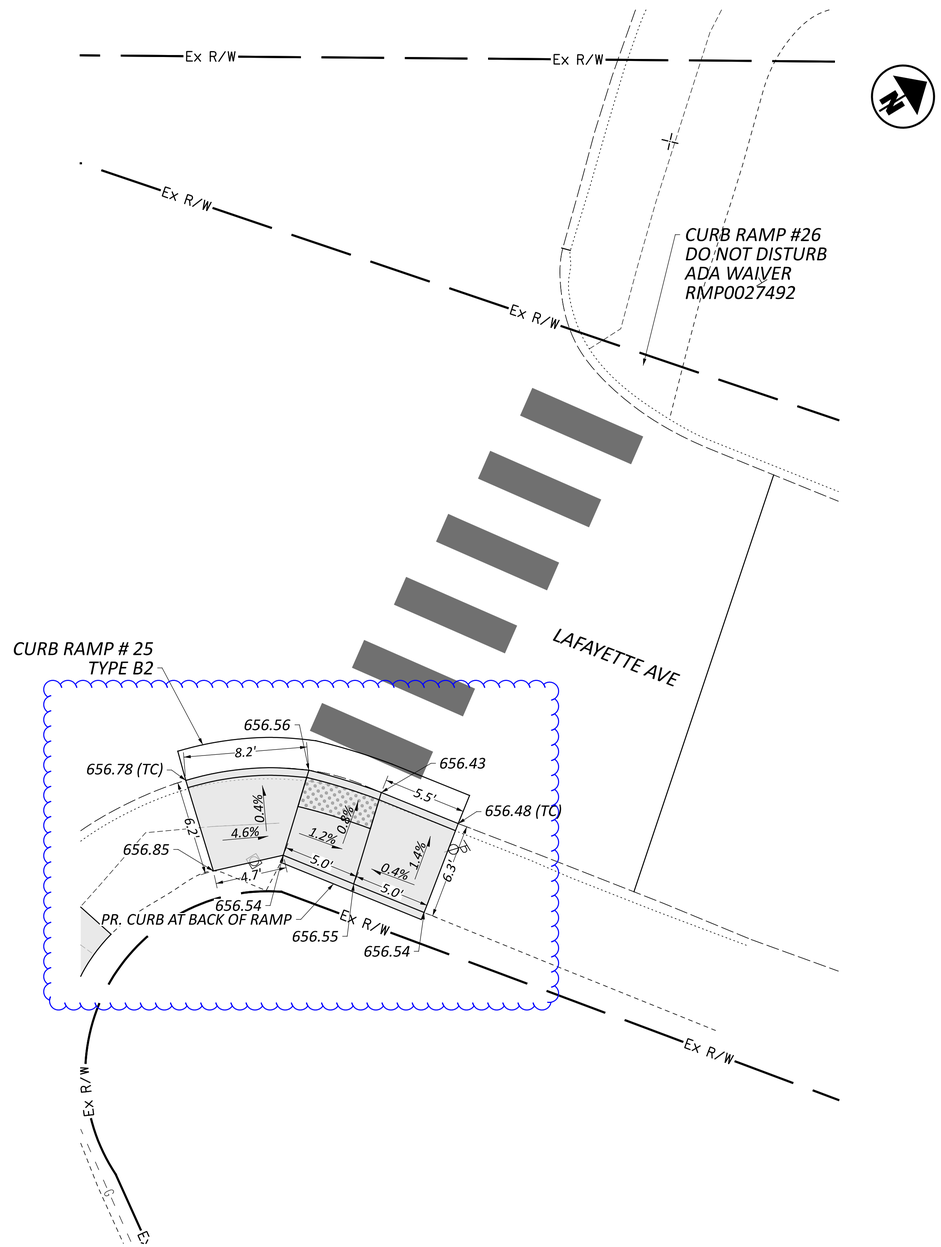

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET

0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & LAFAYETTE AVE

DESIGN AGENCY

PLAN PREPARED BY:
TTE Consulting, Inc.
7238 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 35 TOTAL 77

HAM-US22-4.807

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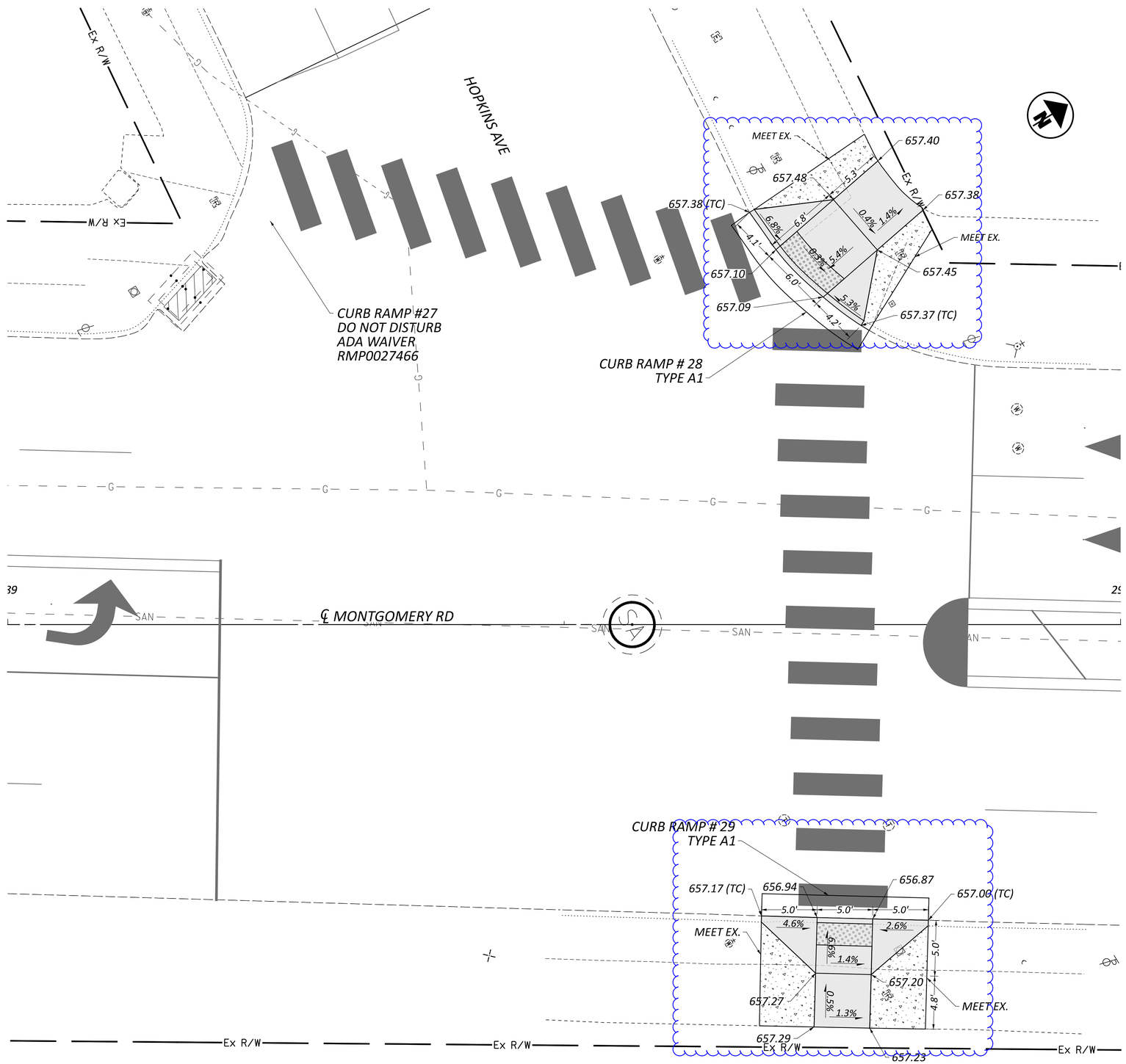

LEGEND

- PR. CURB/WALK REPLACEMENT
- PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & HOPKINS AVE

HAM-US22-4.807

MODEL: CLP_12 - Hopkins [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:15 PM USER: ahautman
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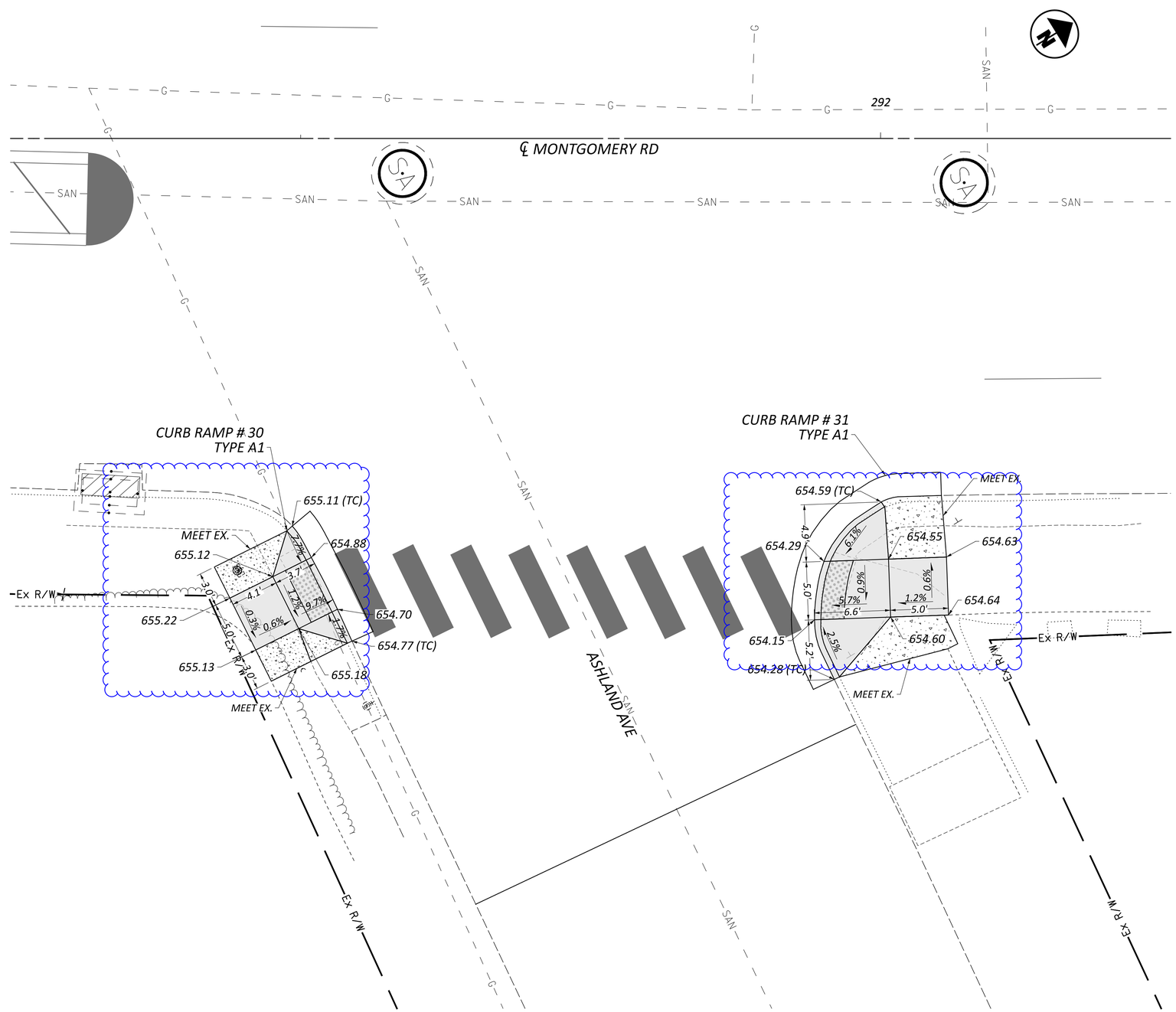
DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Park Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 36 TOTAL 77



LEGEND

- PR. CURB/WALK REPLACEMENT
- PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & ASHLAND AVE

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 37 TOTAL 77

HAM-US22-4.807

MODEL: CLP_13 - Ashland [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:16 PM USER: ahautman
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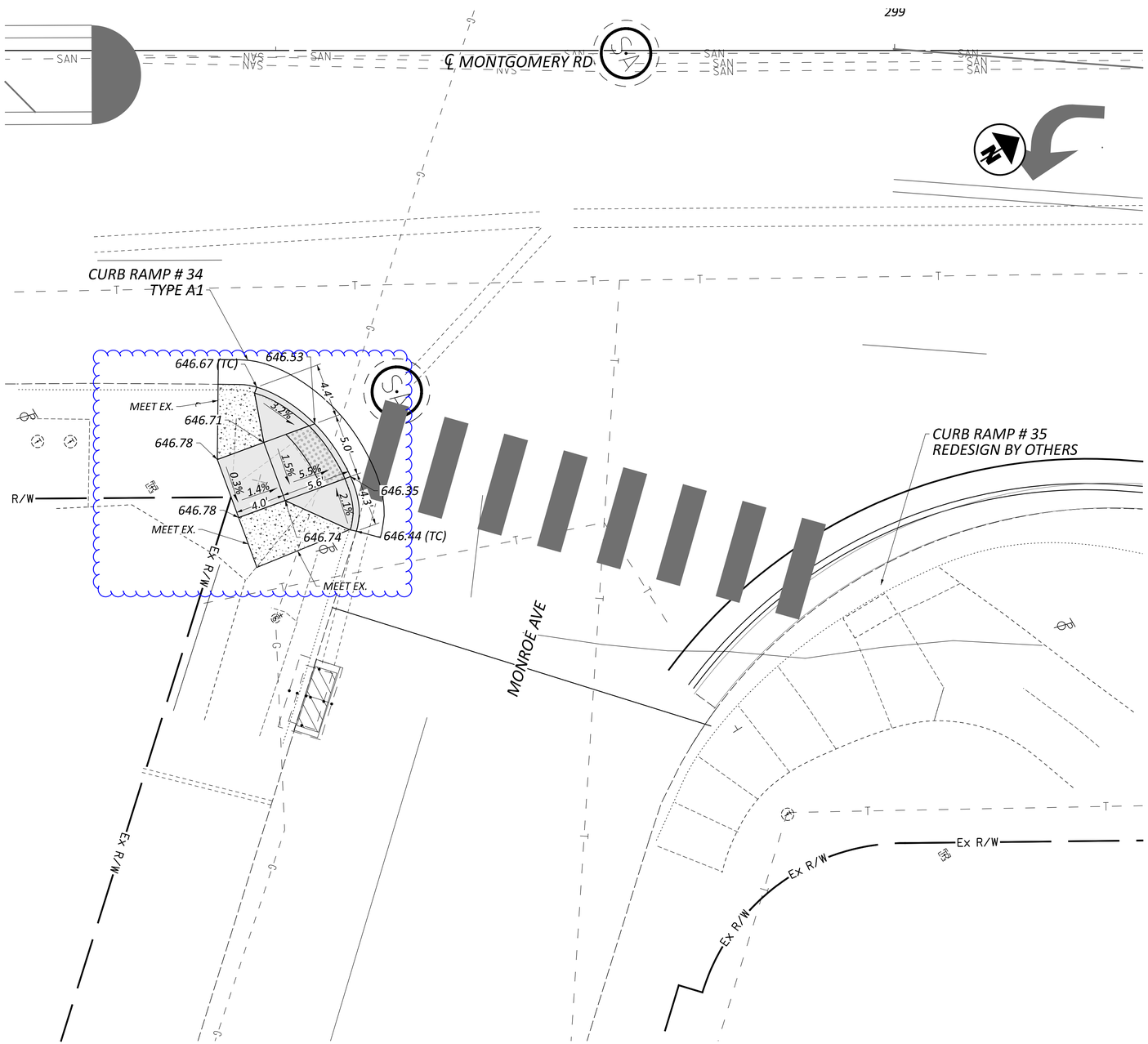

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET

0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & MONROE AVE

DESIGN AGENCY

PLAN PREPARED BY:
TEC Consulting Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 39 TOTAL 77

HAM-US22-4.807

MODEL: CLP_15 - Monroe [Sheet] PAPERSIZE 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:17 PM USER: ahautman
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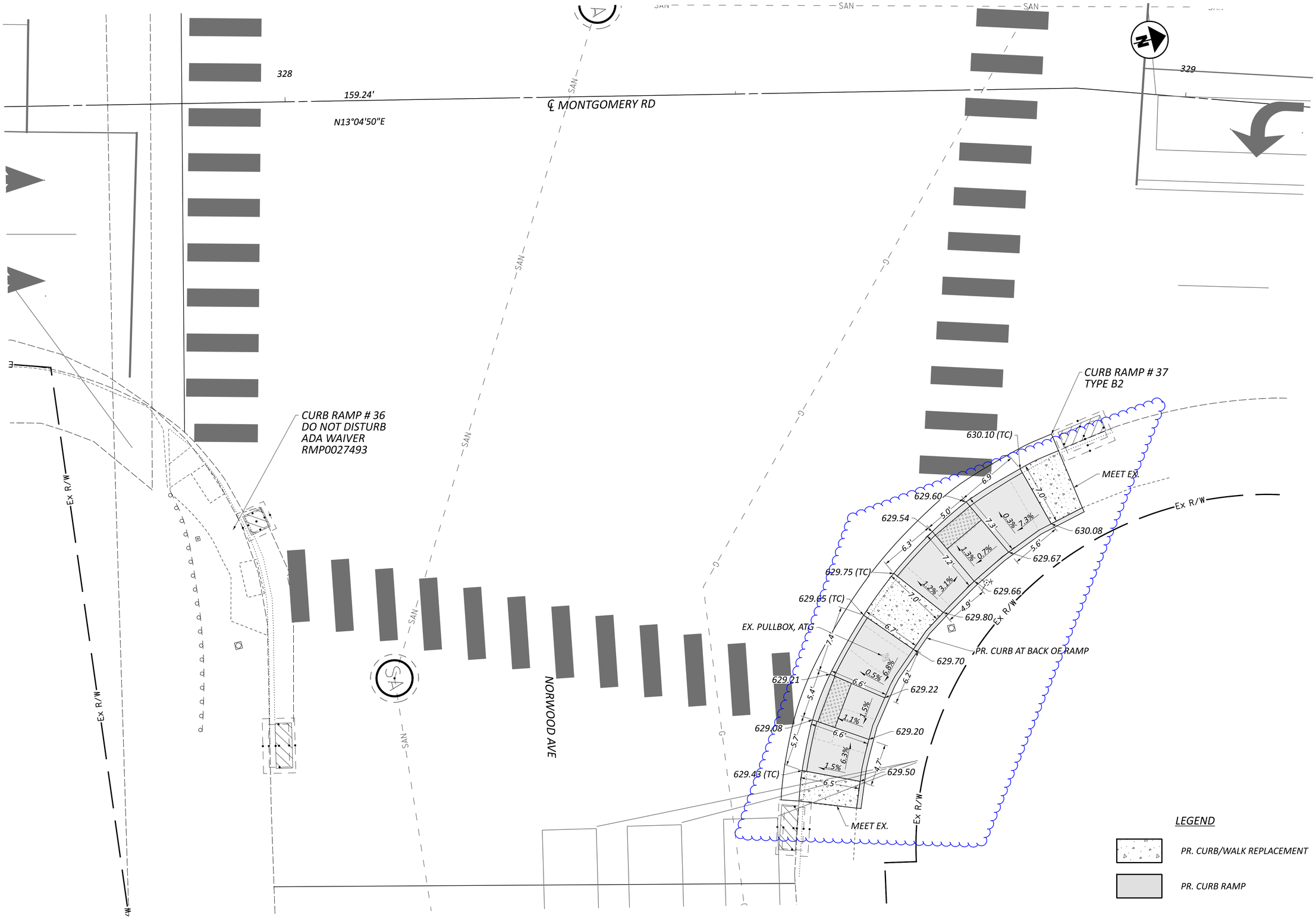

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & NORWOOD AVE EAST

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7238 Central Parke Blvd.
Mason, OH 45040

DESIGNER: AAH
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 40 TOTAL 77

HAM-US22-4.807

MODEL: CLP_16 - Norwood East [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:18 PM USER: ahautman
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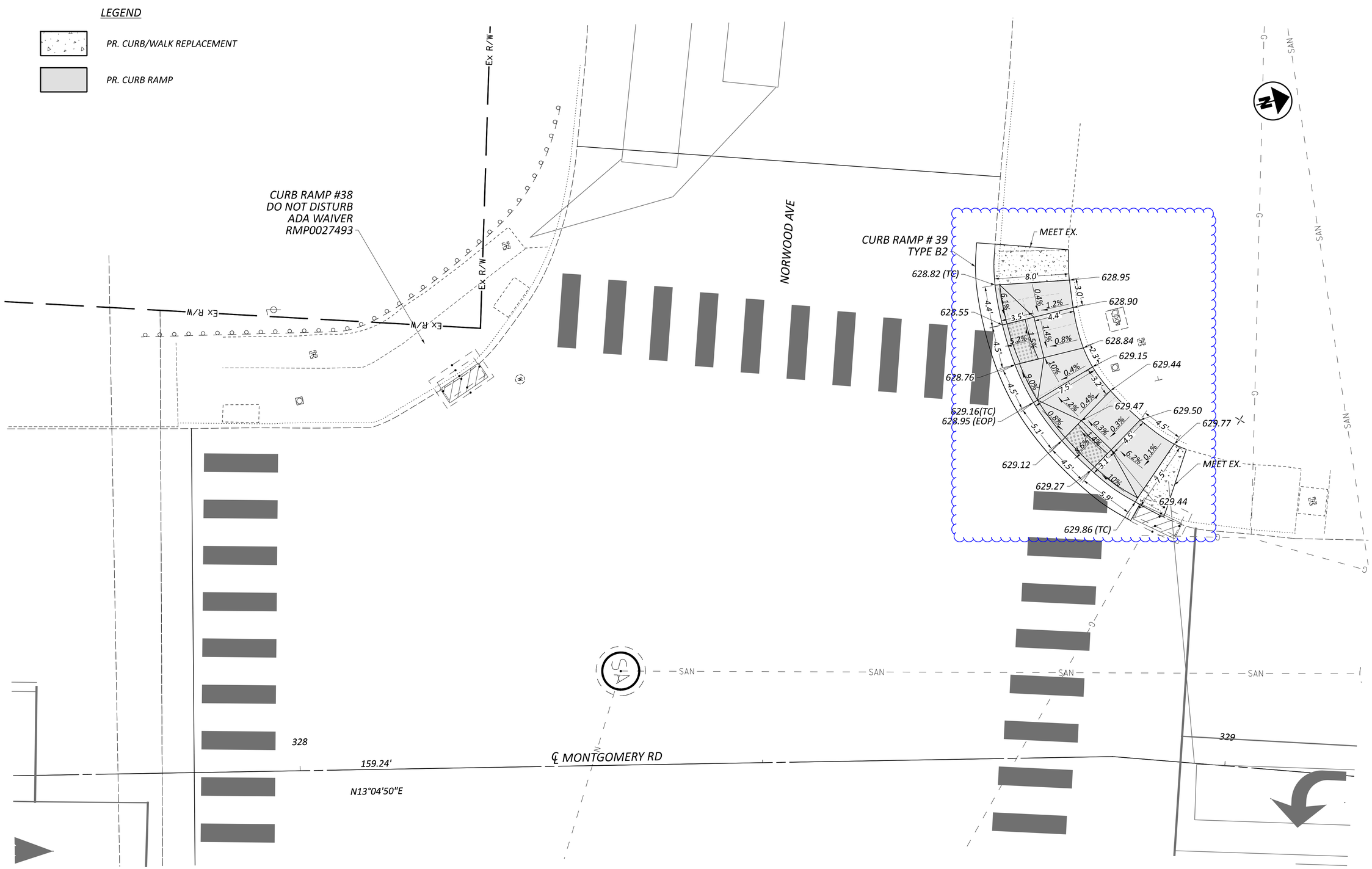

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & NORWOOD AVE WEST

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 41 TOTAL 77

HAM-US22-4.807

MODEL: CLP_17 - Norwood West [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:19 PM USER: ahautman
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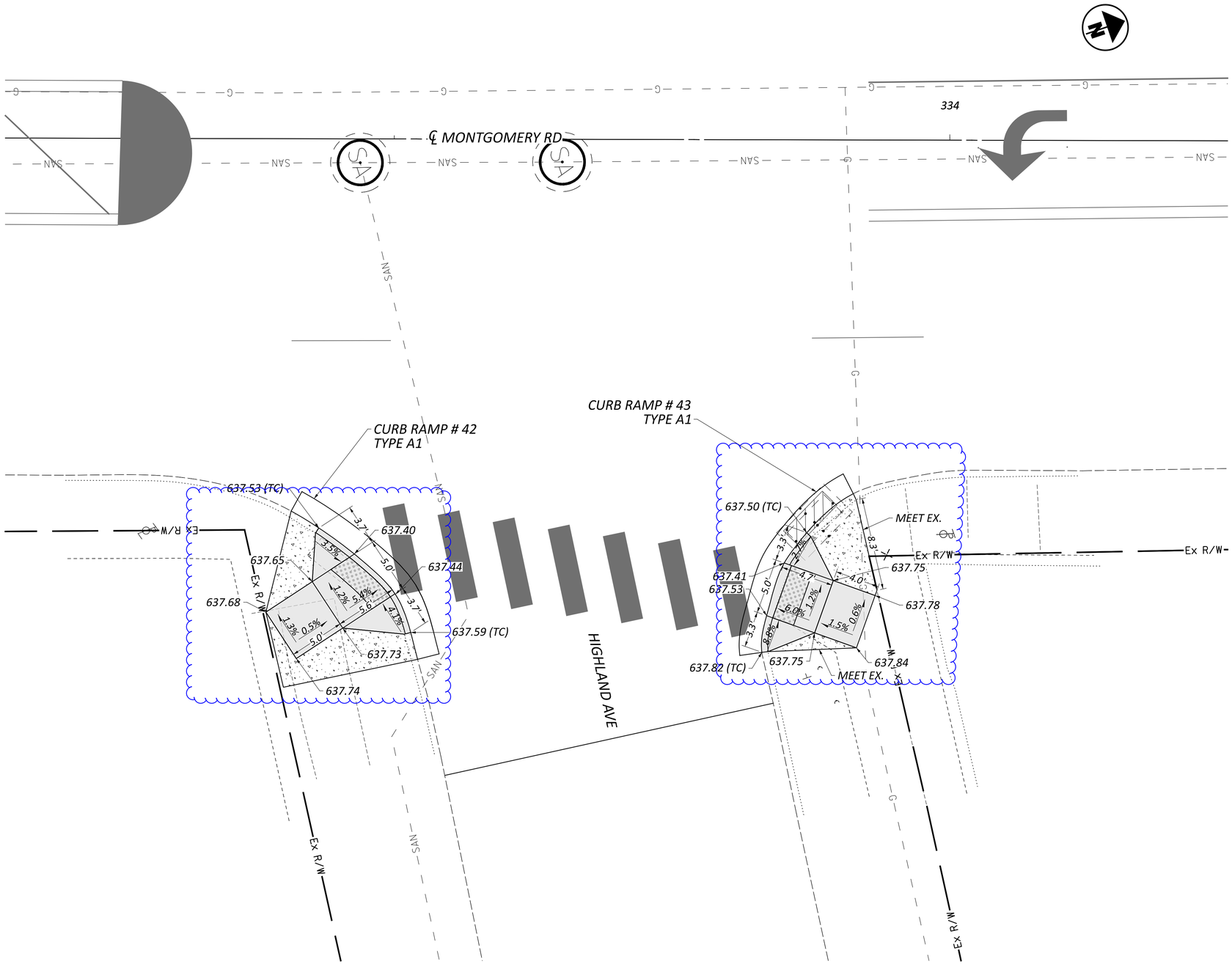

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & HIGHLAND AVE

DESIGN AGENCY
PLAN PREPARED BY:
TTC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 42 TOTAL 77

HAM-US22-4.807

MODEL: CLP_18 - Highland [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:20 PM USER: ahautman
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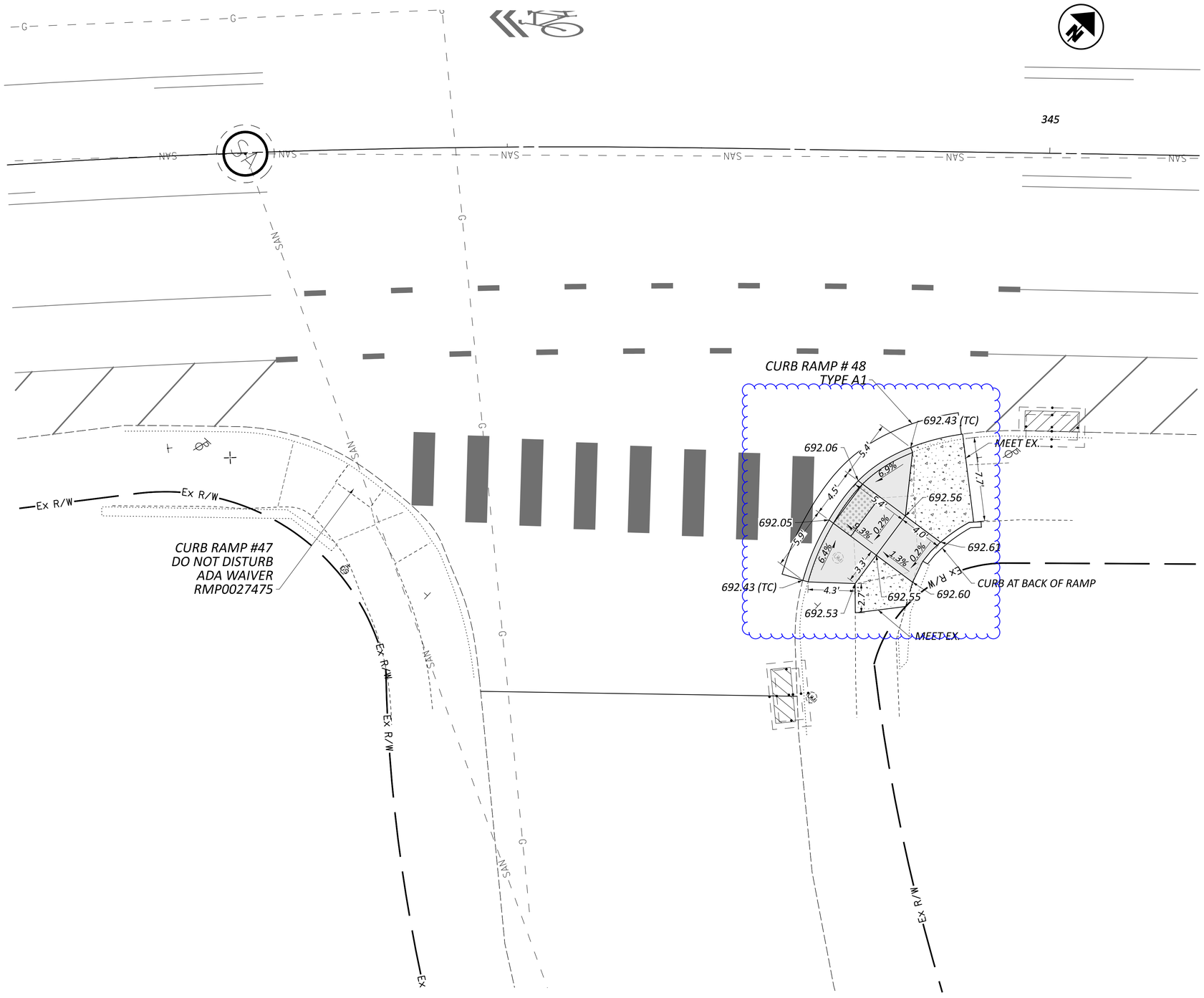

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET

0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & SHERWOOD LN

DESIGN AGENCY

PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 45 TOTAL 77

HAM-US22-4.807

MODEL: CLP_21 - Sherwood [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:22 PM USER: ahautman
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HAM-US22-4.807

MODEL: CLP_23 - Indian Mound [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:23 PM USER: ahautman
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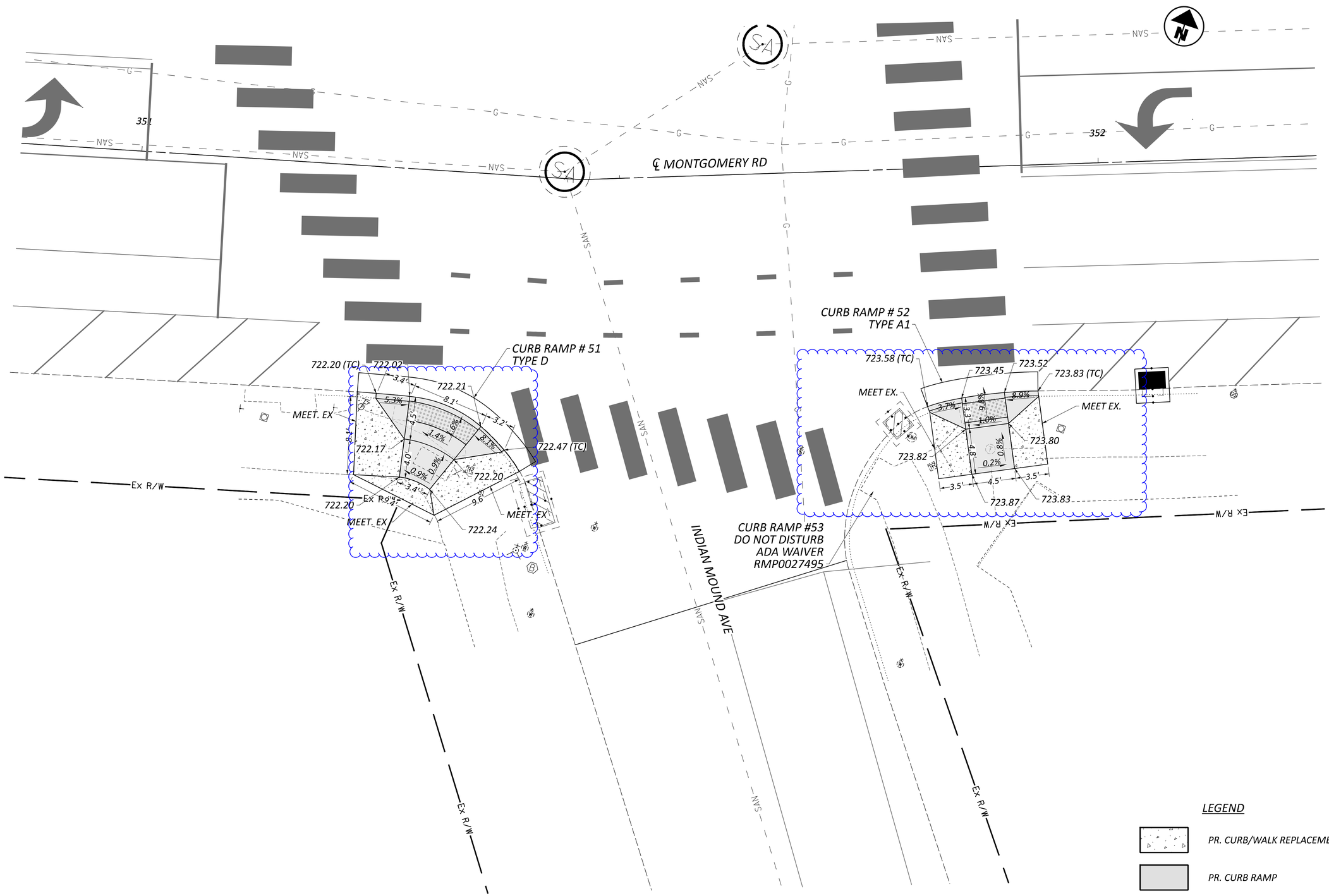
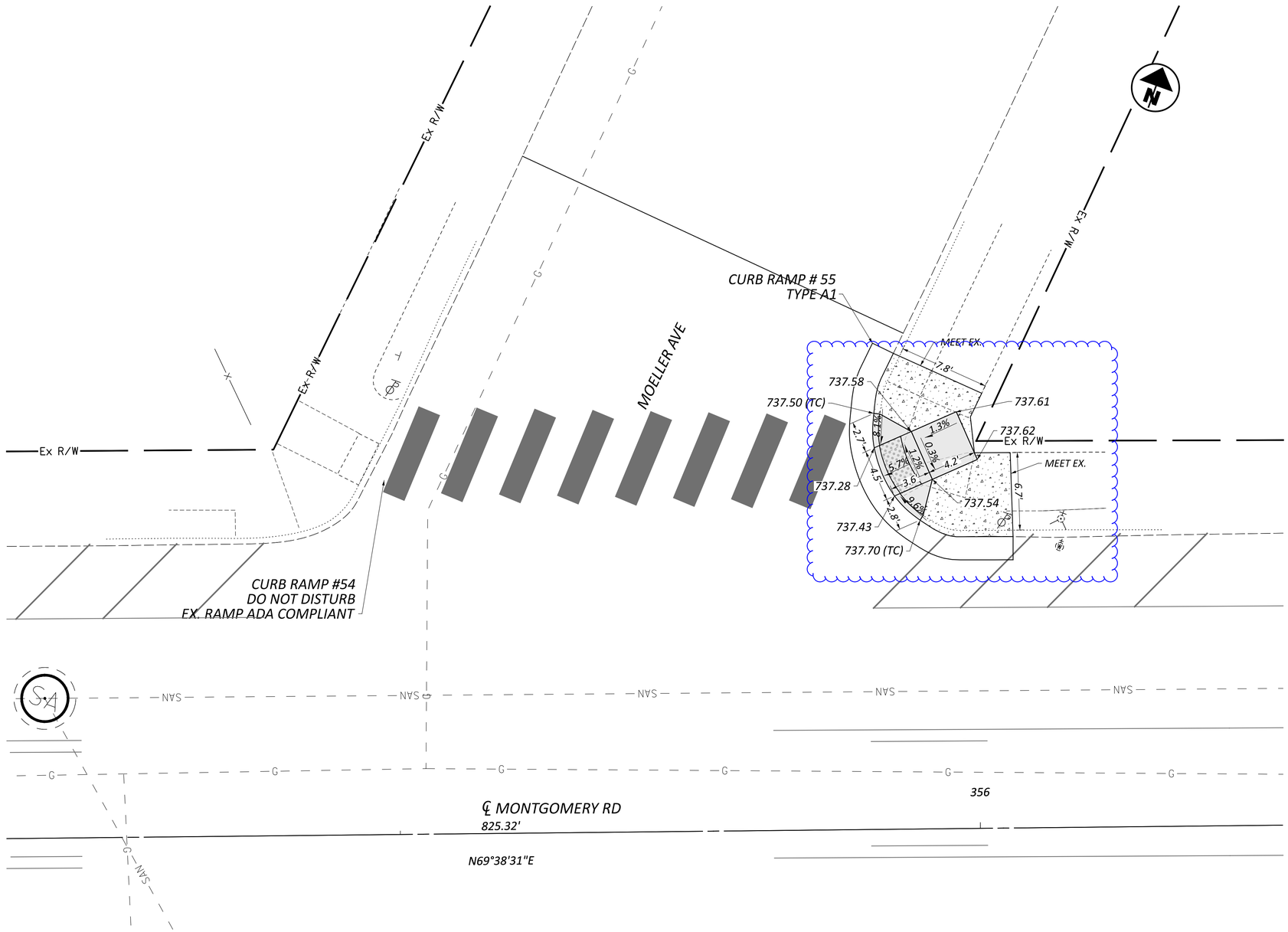


CURB RAMP DETAILS
MONTGOMERY RD & INDIAN MOUND AVE

DESIGN AGENCY
PLAN PREPARED BY:
TTG Consultants, Inc.
7338 Central Parke Blvd.
Mason, OH 45040

DESIGNER: AAH
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 47 TOTAL 77



LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET

0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & MOELLER AVE

DESIGN AGENCY

PLAN PREPARED BY:
TTE Consulting Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER: AAH

REVIEWER: DGO 03/11/25

PROJECT ID: 115747

SHEET 48 TOTAL 77

HAM-US22-4.807

MODEL: CLP_24 - Moeller [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:24 PM USER: ahautman
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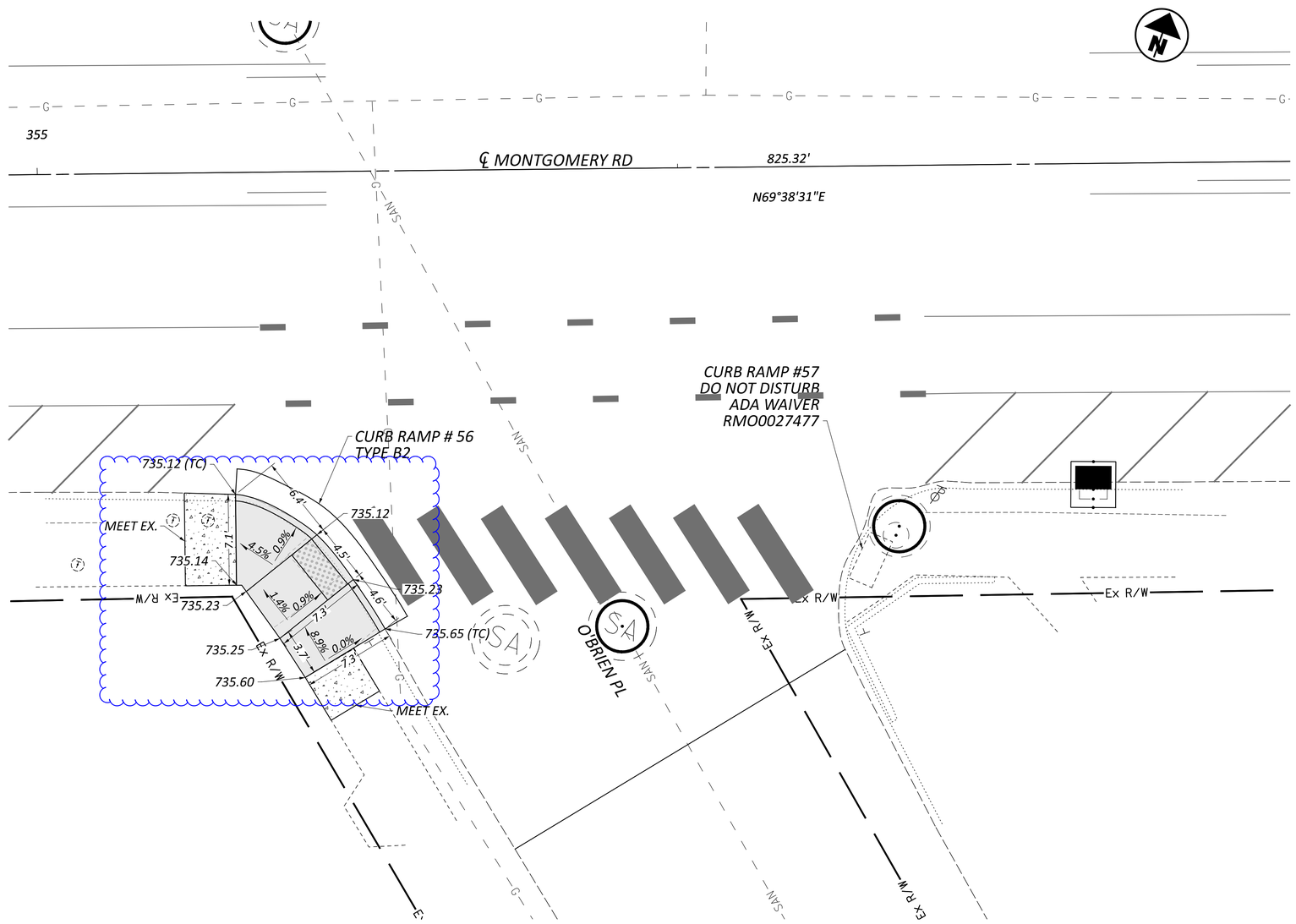

LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & O'BRIEN PL

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 49 TOTAL 77

HAM-US22-4.807

MODEL: CLP_25 - OBrien [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:25 PM USER: ahautman
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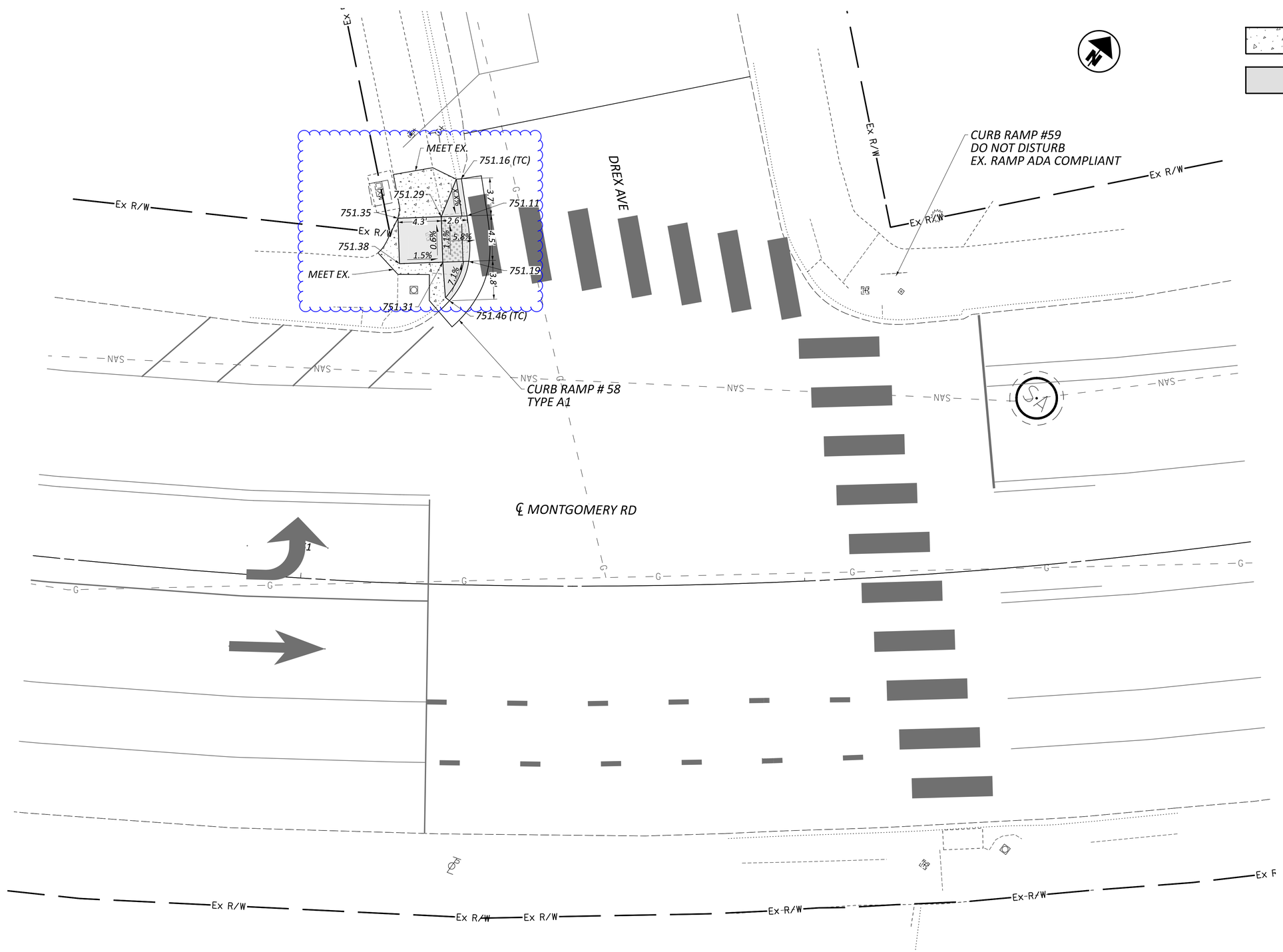


LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

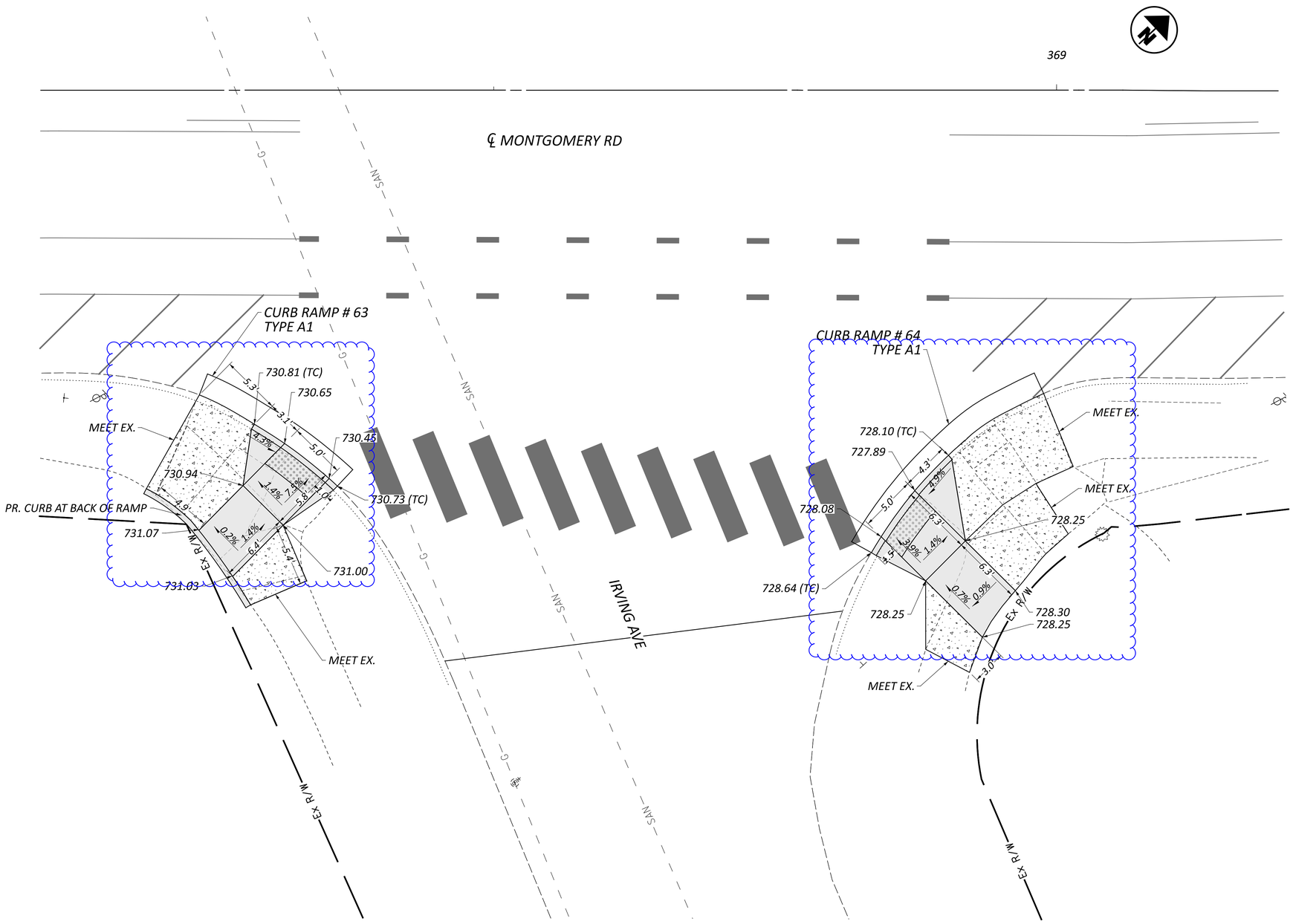
CURB RAMP DETAILS
MONTGOMERY RD & DREX AVE

DESIGN AGENCY
PLAN PREPARED BY:
TTL Consulting Inc.
7238 Central Parke Blvd.
Mason, OH 45040

DESIGNER: AAH
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 50 TOTAL 77

HAM-US22-4.807

MODEL: CLP_26 - Drex [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:25 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GI001.dgn



LEGEND

PR. CURB/WALK REPLACEMENT

PR. CURB RAMP

HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & IRVING AVE

DESIGN AGENCY
PLAN PREPARED BY:
TTG Consultants, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

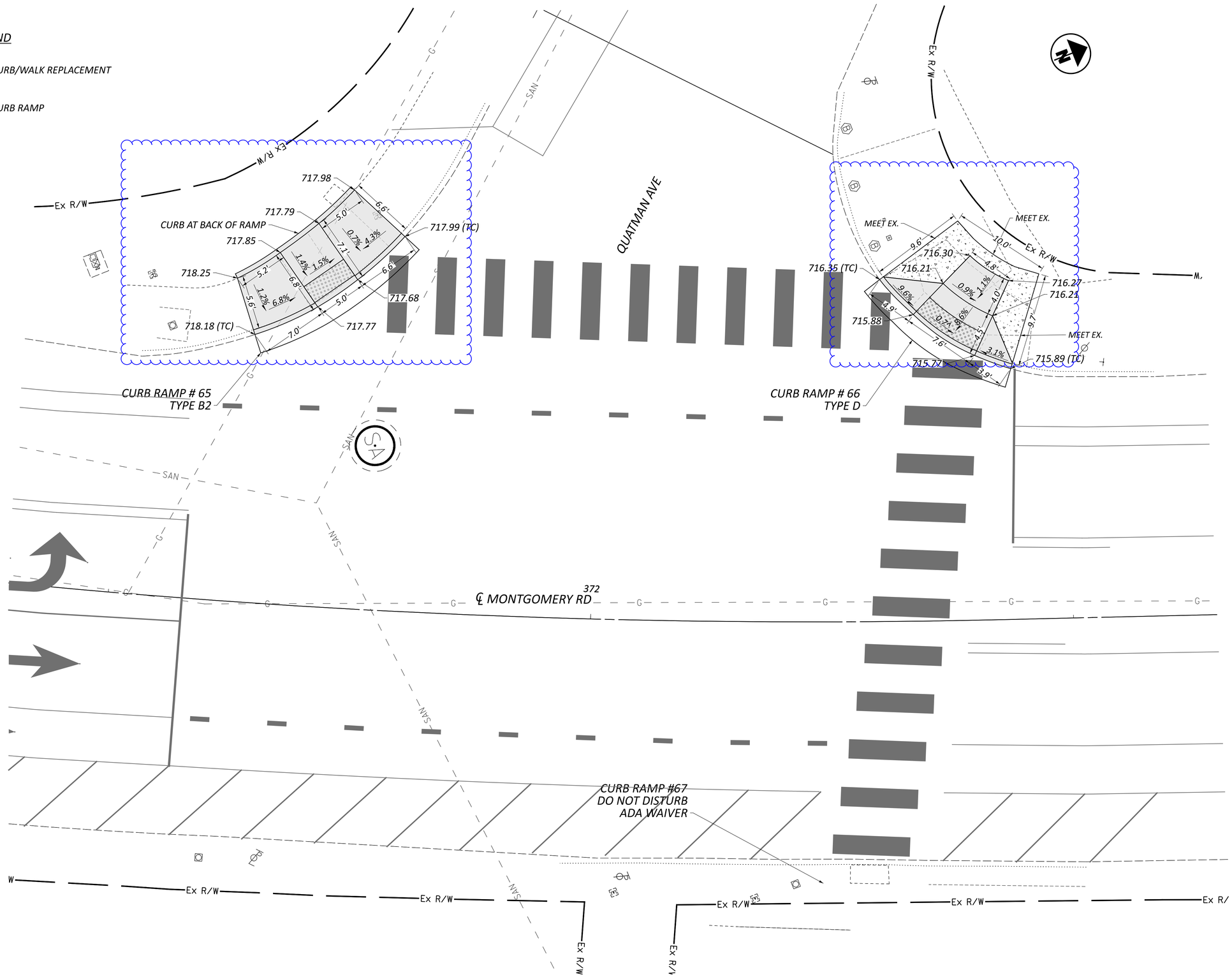
REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 52 TOTAL 77

HAM-US22-4.807

MODEL: CLP_28 - Irving [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:27 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_G001.dgn



HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & QUATMAN AVE

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

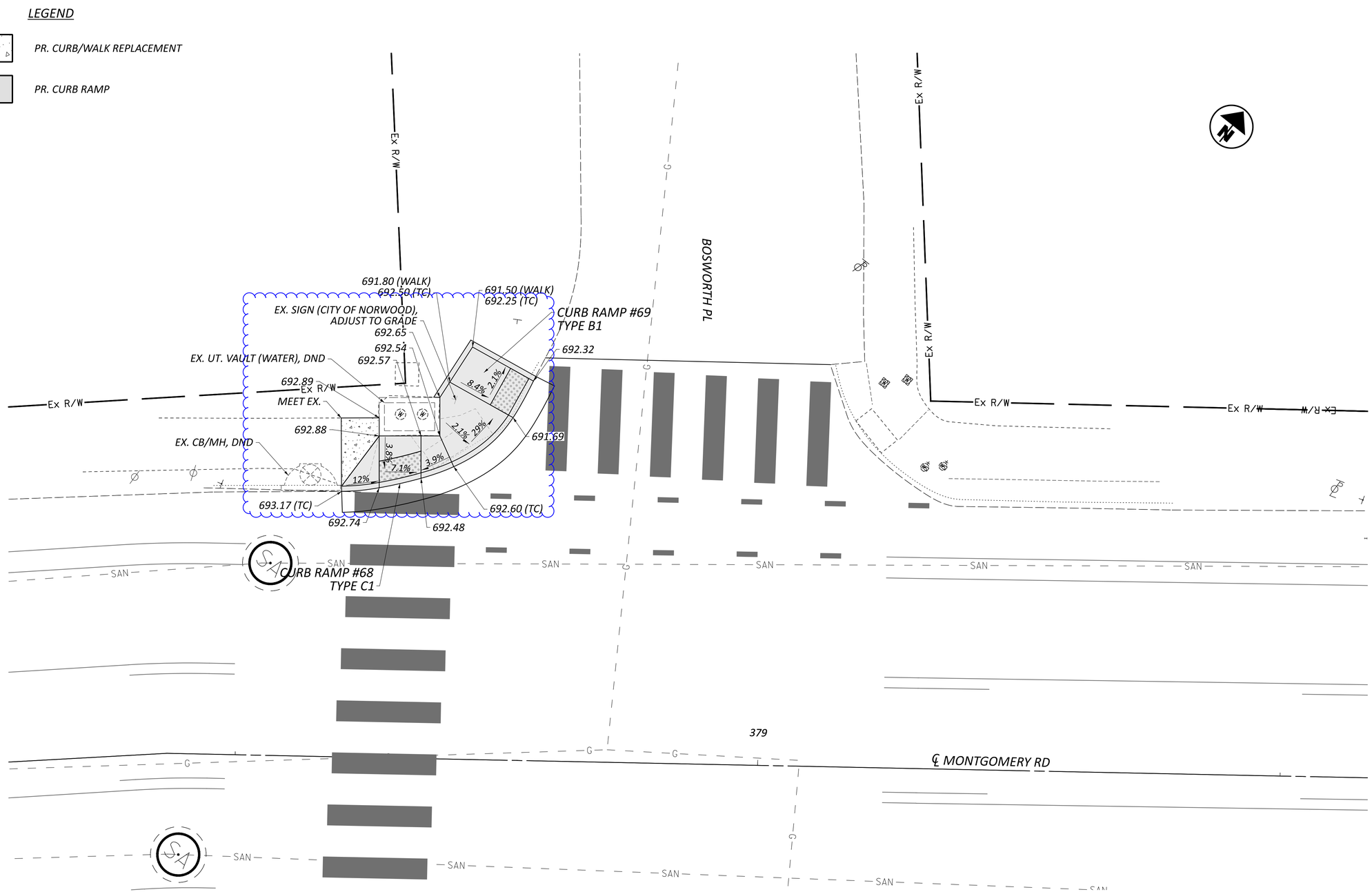
REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 53 TOTAL 77

HAM-US22-4.807

MODEL: CLP_29 - Quatman [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:28 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GI001.dgn



HORIZONTAL SCALE IN FEET
0 2.5 5 10

CURB RAMP DETAILS
MONTGOMERY RD & BOSWORTH PL

DESIGN AGENCY
PLAN PREPARED BY:
TTE Cincinnati, Inc.
7238 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 54 TOTAL 77

HAM-US22-4.807

MODEL: CLP_33 - Bosworth [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:29 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Roadway\Sheets\22039-007_GI001.dgn

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 CENTER LINE MILE	644 CENTERLINE PASS PROH RIGHT MILE	644 CENTERLINE PASS PROH LEFT MILE	642 CENTER LINE MILE	
62	CL1	253+34	255+37		0.04				
62	CL2	256+23	259+21		0.06				
62	CL3	260+81	262+83		0.02				
62	CL4	261+85	263+86		0.04				
63	CL5	265+43	268+67		0.06				
63	CL6	265+43	268+67		0.06				
63	CL7	269+27	273+68		0.08				
63	CL8	269+27	273+68		0.08				
64	CL9	274+28	276+07		0.03				
64	CL10	274+28	276+07		0.03				
64	CL11	276+66	277+06		0.01				
64	CL12	276+66	278+09		0.03				
64	CL13	278+98	282+09		0.06				
64	CL14	279+70	282+09		0.05				
64	CL15	282+61	283+26		0.01				
64	CL16	282+61	283+26		0.01				
65	CL17	283+79	285+44		0.03				
65	CL18	283+79	285+44		0.03				
65	CL19	286+01	286+78		0.01				
65	CL20	286+01	286+85		0.02				
65	CL21	288+19	289+19		0.02				
65	CL22	288+19	288+67		0.01				
65	CL23	289+87	291+32		0.03				
65	CL24	289+87	291+32		0.03				
65	CL25	292+31	295+79		0.07				
65	CL26	292+31	295+79		0.07				
66	CL27	296+39	298+35		0.04				
66	CL28	296+39	298+35		0.04				
66	CL29	299+00	299+62		0.01				
66	CL30	300+22	303+43				0.06		
66	CL31	300+22	303+43			0.06			
67	CL32	304+42	306+62		0.04				
67	CL33	305+42	307+62		0.04				
67	CL34	308+20	310+77		0.05				
67	CL35	312+08	316+17		0.08				
68	CL36	313+30	316+99		0.07				
68	CL37	317+79	319+46		0.03				
68	CL38	317+79	319+46		0.03				
68	CL39	320+30	322+98		0.05				
69	CL40	323+87	324+63		0.01				
69	CL41	325+28	327+72					0.05	
69	CL42	328+95	333+25		0.08				
69	CL43	332+45	333+25		0.02				
70	CL44	333+93	334+89		0.01				
70	CL45	334+40	334+89		0.01				
70	CL46	334+89	337+36			0.05			
70	CL47	334+89	337+36				0.05		
70	CL48	337+36	338+73		0.02				
70	CL49	337+36	338+73		0.02				
70	CL50	339+47	340+40		0.02				
70	CL51	339+47	340+40		0.02				
70	CL52	340+78	342+36		0.03				
70	CL53	341+87	342+36		0.02				
70	CL54	342+36	344+28			0.03			
70	CL55	342+36	344+28				0.04		
71	CL56	344+98	347+05			0.04			
71	CL57	344+98	347+05				0.04		
71	CL58	347+59	349+40			0.03			
71	CL59	347+59	349+40				0.03		
TOTALS CARRIED TO GENERAL SUMMARY					1.72	0.21	0.22	0.05	

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 CENTER LINE MILE	644 CENTERLINE PASS PROH RIGHT MILE	644 CENTERLINE PASS PROH LEFT MILE	644 DOTTED LINE, 4", YELLOW FEET	644 DOTTED LINE 4", WHITE FEET	
71	CL60	349+40	351+00		0.03					
71	CL61	349+40	349+90		0.01					
71	CL62	351+92	353+56		0.03					
72	CL63	353+06	353+56		0.01					
72	CL64	353+56	355+23			0.03				
72	CL65	353+56	355+23				0.03			
72	CL66	355+82	359+21			0.06				
72	CL67	355+82	359+21				0.06			
72	CL68	359+21	361+13		0.04					
72	CL69	359+21	359+81		0.01					
72	CL70	361+69	365+19			0.06				
72	CL71	361+69	365+19				0.06			
73	CL72	365+84	368+33			0.05				
73	CL73	365+84	368+33				0.06			
73	CL74	368+91	369+98			0.02				
73	CL75	368+91	369+98				0.02			
73	CL76	369+98	371+58		0.03					
73	CL77	369+98	370+48		0.01					
73	CL78	372+44	376+14			0.07				
73	CL79	372+41	376+14				0.07			
74	CL80	376+49	378+50			0.04				
74	CL81	376+49	378+49				0.04			
74	CL82	379+12	382+00			0.05				
74	CL83	379+12	382+00				0.05			
67	CL84	311+58	311+60		0.00					
66	DL1	286+78	288+13	L				270		
66	DL2	299+50	300+05	L					55	
	DL3	NOT USED								
70	DL4	335+20	336+20	R					100	
69	DL5	325+68	326+54						86	
	DL6	NOT USED								
70	DL7	338+54	338+83	L					40	
	DL8	NOT USED		L						
69	DL9	340+78	341+43	R					45	
69	DL10	NOT USED		R						
71	DL11	344+28	344+97	R					69	
71	DL12	344+28	344+95	R					67	
71	DL13	351+11	351+73	L					63	
71	DL14	351+11	351+73	L					63	
71	DL15	351+33	351+79	R					46	
71	DL16	351+33	351+79	R					46	
72	DL17	355+17	355+69	R					52	
72	DL18	355+17	355+69	R					52	
72	DL19	361+13	361+54	R					43	
72	DL20	361+13	361+54	R					43	
73	DL21	365+32	365+84	R					52	
73	DL22	365+32	365+84	R					52	
73	DL23	368+33	368+90	R					58	
73	DL24	368+33	368+90	R					58	
73	DL25	371+58	372+28	L					68	
73	DL26	371+58	372+24	R					67	
74	DL27	376+14	376+49	R					36	
74	DL28	376+14	376+49	R					36	
74	DL29	378+74	379+12	L					38	
74	DL30	378+74	379+12	L					38	
74	DL31	378+71	379+12	R					41	
74	DL32	378+71	379+12	R					41	
TOTALS CARRIED TO GENERAL SUMMARY					0.17	0.38	0.39	270	1455	

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Pointe Blvd.
Mason, OH 45040

DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 55 TOTAL 77

HAM-US22-4.807

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 CHANNELIZING LINE, 8" FEET	644 LANE LINE, 4" MILE	642 CHANNELIZING LINE, 8" FEET		
62	CH1	253+28	254+03	L	76				
62	CH2	254+52	255+37	R	85				
62	CH3	256+23	256+96	L	73				
62	CH4	257+46	259+21	R	175				
62	CH5	260+81	261+79	L	96				
63	CH6	262+98	263+86	R	88				
64	CH7	277+33	278+09	R	76				
64	CH8	278+98	279+39	L	42				
65	CH9	288+67	289+19	R	52				
66	CH10	299+00	299+62	L	63				
67	CH11	304+42	305+42	L	100				
67	CH12	306+62	307+62	R	100				
67	CH13	308+19	309+26	L	107				
67	CH14	309+77	310+77	R	100				
67	CH15	312+08	313+27	L	119				
68	CH16	316+27	316+99	R	72				
68	CH17	320+30	321+30	L	100				
68	CH18	321+98	322+98	R	100				
69	CH19	323+87	324+63	R	76				
69	CH20	326+52	327+73	R			129		
69	CH21	328+95	332+45	L	349				
70	CH22	333+93	334+40	L	47				
70	CH23	336+20	338+73	R	253				
70	CH24	339+47	340+94	L	147				
70	CH25	340+77	341+87	L	110				
71	CH26	349+90	351+09	R	119				
71	CH27	351+92	353+06	L	114				
72	CH28	359+81	361+13	R	132				
73	CH29	370+48	371+58	R	110				
67	CH30	311+71	311+71	R	2				
67	CH31	311+82	311+82	R	2				
62	LL1	253+22	255+37	L		0.03			
62	LL2	253+39	255+48	R		0.03			
62	LL3	255+96	259+27	L		0.06			
62	LL4	256+30	259+21	R		0.06			
62	LL5	260+81	264+00	L		0.06			
62	LL6	260+91	264+61	R		0.07			
63	LL7	265+39	274+73	L		0.18			
63	LL8	265+39	274+73	R		0.18			
64	LL9	274+86	275+94	L		0.02			
64	LL10	274+86	278+09	R		0.06			
64	LL11	276+63	277+93	L		0.02			
64	LL12	278+98	282+13	L		0.05			
64	LL13	279+03	286+85	R		0.15			
65	LL13A	288+13	289+19	R		0.02			
64	LL14	282+57	288+19	L		0.11			
65	LL15	289+87	295+79	L		0.10			
65	LL16	289+87	291+36	R		0.03			
65	LL17	292+08	295+79	R		0.07			
66	LL18	296+35	298+46	L		0.04			
66	LL19	296+35	298+46	R		0.03			
66	LL20	299+00	299+50	L		0.01			
66	LL21	300+22	303+43	L		0.06			
66	LL22	299+00	299+87	R		0.01			
67	LL23	304+42	307+62	L		0.06			
67	LL24	304+42	307+62	R		0.06			
67	LL25	308+20	310+77	L		0.05			
TOTALS CARRIED TO GENERAL SUMMARY					3085	1.61	129		

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 LANE LINE, 4" MILE	644 STOP LINE, 24" FEET	644 PARKING STALL MARKING, 4", WHITE FEET	642 LANE LINE, 4" MILE	642 STOP LINE, 24" FEET	
67	LL26	308+20	310+77	R	0.05					
67	LL27	312+08	316+99	L	0.09					
67	LL28	312+08	316+99	R	0.09					
68	LL29	317+79	319+46	L	0.03					
68	LL30	317+79	319+46	R	0.03					
68	LL31	320+30	324+63	R	0.08					
68	LL32	320+30	324+63	L	0.08					
68	LL33	323+87	327+72	L				0.07		
69	LL34	323+87	327+83	R				0.08		
69	LL35	328+95	338+54	L	0.18					
69	LL36	328+95	336+20	R	0.14					
66	LL61	300+22	303+43	R	0.06					
62	S1	259+21		R		30				
62	S2	260+81		L		30				
64	S3	278+09		R		30				
64	S4	279+98		L		33				
65	S5	289+19		R		30				
65	S6	289+82		L		22				
	S7	NOT USED								
67	S8	303+47		R		20				
67	S9	303+63		L		30				
67	S10	304+42		L		34				
66	S11	311+04		L		34				
66	S12	311+58		R		34				
68	S13	316+99		R		35				
68	S14	317+50		R		20				
68	S15	317+79		L		20				
68	S16	319+46		R		20				
68	S17	319+81		L		30				
68	S18	320+30		L		36				
68	S19	319+95		R		15				
	S20	NOT USED								
	S21	NOT USED								
69	S22	327+71		R					12	
69	S23	327+84		R					24	
69	S24	328+95		L					36	
70	S25	338+73		R		23				
70	S26	339+47		L		23				
71	S27	351+00		L		10				
71	S28	351+09		R		16				
71	S29	351+92		L		27				
72	S30	361+13		R		33				
72	S31	361+69		L		17				
73	S32	371+58		R		26				
73	S33	372+44		L		18				
65	S34	286+85		R		20				
67	S35	310+77		R		34				
67	S36	312+08		L		34				
67	P1	304+60	306+15	L			56			
67	P2	308+52	310+53	L			80			
68	P3	313+07	315+77	L			112			
68	P4	320+69	322+73	L			468			
TOTALS CARRIED TO GENERAL SUMMARY					0.84	784	716	0.15	72	

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY
PLAN PREPARED BY:
TEC Consulting, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 56 TOTAL 77

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:31 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TS002.dgn

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 LANE ARROW EACH	642 LANE ARROW EACH			
62	A1	253+55		L	1				
62	A2	254+70		R	1				
62	A3	255+27		R	1				
62	A4	256+32		L	1				
62	A5	256+82		L	1				
62	A6	257+64		R	1				
62	A7	258+28		R	1				
62	A8	259+11		R	1				
62	A9	260+90		L	1				
62	A10	261+62		L	1				
63	A11	263+11		R	1				
63	A12	263+77		R	1				
64	A13	277+33		R	1				
64	A14	278+02		R	1				
64	A15	278+02		R	1				
64	A16	278+02		R	1				
64	A17	279+03		L	1				
64	A18	279+03		L	1				
64	A19	279+03		L	1				
65	A20	289+12		L	1				
65	A21	289+96		L	1				
65	A22	289+96		L	1				
66	A23	299+09		L	1				
66	A24	301+78		R	1				
66	A25	301+89		L	1				
67	A26	304+52		L	1				
67	A27	305+34		R	1				
67	A28	306+72		R	1				
67	A29	307+52		R	1				
67	A30	308+36		L	1				
67	A31	309+17		L	1				
67	A32	309+88		L	1				
67	A33	310+68		L	1				
67	A34	312+17		R	1				
68	A35	313+16		R	1				
68	A36	316+30		R	1				
68	A37	316+89		R	1				
68	A38	320+41		L	1				
68	A39	321+18		L	1				
68	A40	322+06		L	1				
68	A41	322+88		L	1				
69	A42	324+30		L	1				
69	A43	325+47		L		1			
69	A44	325+47		R		1			
69	A45	325+47		R		1			
69	A46	326+92		R		1			
69	A47	326+98		R		1			
69	A48	327+00		R		1			
69	A49	327+61		R		1			
69	A50	327+73		R		1			
69	A51	327+73		R	1				
69	A52	329+05		L	1				
69	A53	329+79		L	1				
69	A54	330+53		L	1				
69	A55	331+27		L	1				
69	A56	332+01		L	1				
70	A57	334+03		L	1				
70	A58	336+23		R	1				
70	A59	336+23		R	1				
TOTALS CARRIED TO GENERAL SUMMARY					51	8			

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 LANE ARROW EACH				
70	A60	336+44		L	1				
70	A61	336+55		L	1				
70	A62	337+43		R	1				
70	A63	337+43		R	1				
70	A64	338+63		R	1				
70	A65	338+63		R	1				
70	A66	339+57		L	1				
70	A67	339+57		L	1				
70	A68	340+17		L	1				
70	A69	340+17		L	1				
70	A70	340+77		L	1				
70	A71	340+77		L	1				
70	A72	340+80		R	1				
70	A73	341+40		L	1				
71	A74	343+14		L	1				
71	A75	343+25		L	1				
71	A76	346+08		L	1				
71	A77	346+19		L	1				
71	A78	348+50		L	1				
71	A79	348+61		L	1				
71	A80	349+99		L	1				
71	A81	350+94		L	1				
71	A82	352+02		L	1				
71	A83	352+92		L	1				
72	A84	354+34		L	1				
72	A85	354+45		L	1				
72	A86	356+88		L	1				
72	A87	357+11		L	1				
72	A88	358+26		L	1				
72	A89	358+37		L	1				
72	A90	359+86		L	1				
72	A91	359+86		R	1				
72	A92	361+03		L	1				
72	A93	361+03		R	1				
72	A94	362+54		L	1				
72	A95	362+64		L	1				
73	A96	364+41		L	1				
73	A97	364+52		L	1				
73	A98	366+45		L	1				
73	A99	366+56		L	1				
73	A100	367+73		L	1				
73	A101	367+83		L	1				
73	A102	369+41		L	1				
73	A103	369+52		L	1				
73	A104	370+57		L	1				
73	A105	370+57		R	1				
73	A106	371+48		L	1				
73	A107	371+48		R	1				
74	A108	373+22		L	1				
74	A109	373+33		L	1				
74	A110	375+33		L	1				
74	A111	375+44		L	1				
74	A112	377+54		L	1				
74	A113	377+65		L	1				
74	A114	380+07		L	1				
74	A115	380+18		L	1				
TOTALS CARRIED TO GENERAL SUMMARY					56				

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Pointe Blvd.
Mason, OH 45040

DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 57 TOTAL 77

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:32 PM USER: ahauman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TS003.dgn

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 CROSSWALK LINE, 24" FEET			
	CW1	NOT USED	NOT USED						
62	CW2	LEXINGTON			L/R	80			
62	CW3	LEXINGTON			R	64			
62	CW4	CLENEAY			L/R	88			
62	CW5	CLENEAY			L	72			
62	CW6	CLENEAY			R	96			
62	CW7	CLENEAY			L/R	96			
63	CW8	IVANHOE/HUDSON			L	104			
63	CW9	IVANHOE/HUDSON			R	72			
63	CW10	WAYLAND			R	56			
64	CW11	MENTOR			L/R	80			
64	CW12	PRENTISS			R	64			
64	CW13	WILLIAMS			L	80			
64	CW14	WILLIAMS			L/R	88			
64	CW15	WILLIAMS			R	64			
64	CW16	WAVERLY			L	56			
65	CW17	SLANE			R	64			
65	CW18	DELAWARE			L	56			
65	CW19	CAMERON			R	80			
65	CW20	LAYFAYETTE			R	48			
65	CW21	CAM/LAY/HOP			L/R	88			
65	CW22	HOPKINS			L	72			
65	CW23	ASHLAND/WANDA			R	64			
65	CW24	ASHLAND/WANDA			L	48			
66	CW25	WEYER			L/R	80			
66	CW26	WEYER			L	48			
66	CW27	MONROE			R	64			
66	CW28	COURTLAND			L/R	88			
66	CW29	COURTLAND			L	56			
67	CW30	MILLS			R	72			
67	CW31	MILLS			L/R	88			
67	CW32	MILLS			L	56			
67	CW33	LAWRENCE			L	48			
67	CW34	LAWRENCE			R	80			
67	CW35	SHERMAN			L/R	88			
67	CW36	SHERMAN			L	88			
67	CW37	SHERMAN			L/R	104			
67	CW38	SHERMAN			R	80			
68	CW39	ELM			L/R	104			
68	CW40	ELM			L	40			
68	CW41	ELM			L/R	136			
68	CW42	ELM			R	56			
68	CW43	MAPLE			L/R	120			
68	CW44	MAPLE			L	40			
68	CW45	MAPLE			L/R	120			
68	CW46	MAPLE			R	104			
69	CW47	CROWN (FUTURE)			L/R	120			
69	CW48	NORWOOD			L/R	140			
69	CW49	NORWOOD			L	10			
69	CW50	NORWOOD			L/R	120			
69	CW51	NORWOOD			R	88			
70	CW52	HIGHLAND			R	56			
70	CW53	ROSS			L	104			
70	CW54	ROSS			L/R	96			
70	CW55	BUXTON			R	48			
71	CW56	SHERWOOD			R	64			
71	CW57	LAWN			L/R	88			
71	CW58	FENWICK			L/R	96			
TOTALS CARRIED TO GENERAL SUMMARY						4470			

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	644 CROSSWALK LINE, 24" FEET	644 ISLAND MARKING (YELLOW) SF		
71	CW59	FENWICK			L	96			
71	CW60	FENWICK			L/R	80			
71	CW61	FENWICK			R	56			
72	CW62	O'BRIEN			R	56			
72	CW63	MOELLER			L	64			
72	CW64	DREX			L/R	80			
72	CW65	DREX			L	56			
73	CW66	SHERIDAN			R	48			
73	CW67	IRVING			R	72			
73	CW68	QUATMAN			L	88			
73	CW69	QUATMAN			L/R	88			
63	CW70	IVANHOE			L/R	80			
71	CW71	LAWN			L	56			
63	CW72	KRUG CIR			L	12			
73	CW73	SHERIDAN			L/R	45			
74	CW74	CYPRESS WAY			R	40			
73	CW75	BOSWORTH			L/R	60			
74	CW76	RIDGELAND			R	40			
74	CW77	BOSWORTH			L	40			
63	IM1		265+39				26		
63	IM2		268+67				26		
63	IM3		269+23				25		
64	IM4		273+68				25		
64	IM5		274+24				25		
64	IM6		276+07				25		
64	IM7		276+62				26		
64	IM8		282+07				26		
64	IM9		282+57				26		
65	IM10		283+26				26		
65	IM11		283+75				26		
65	IM12		285+44				25		
65	IM13		285+96				47		
65	IM14		288+13				47		
65	IM15		289+82				26		
64	IM16		292+27				25		
66	IM17		296+35				25		
66	IM18		298+35				25		
66	IM19		300+17				44		
67	IM20		303+43				46		
68	IM21		317+73				48		
68	IM22		319+46				40		
69	IM23		333+25				66		
70	IM24		338+73				11		
66	IM25		295+79				25		
65	IM26		291+32				26		
TOTALS CARRIED TO GENERAL SUMMARY						1157	808		

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 58 TOTAL 77

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:32 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TS004.dgn

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 TRANSVERSE LINE, 24", YELLOW FEET	644 TRANSVERSE LINE, 24", WHITE FEET
62	TR1	261+85	262+83	L/R	98	
63	TR2	265+43	268+67	L/R	324	
63	TR3	269+27	273+68	L/R	441	
64	TR4	274+28	276+07	L/R	179	
64	TR5	276+62	277+06	L/R	28	
64	TR6	279+70	282+09	L/R	239	
64	TR7	282+61	283+26	L/R	65	
65	TR8	283+79	285+45	L/R	166	
65	TR9	286+01	286+85	L/R	84	
65	TR10	288+20	288+67	L/R	47	
65	TR11	289+86	291+32	L/R	146	
65	TR12	292+31	295+85	L/R	354	
66	TR13	296+39	298+35	L/R	196	
68	TR14	313+77	315+77	R	200	
67	TR15	305+42	306+62	L/R	120	
68	TR16	317+79	319+46	L/R	167	
68	TR17	332+45	333+25	L/R	80	
69	TR18	337+36	338+73	L/R	137	
69	TR19	339+47	340+39	L/R	92	
70	TR20	340+78	342+08			120
70	TR21	341+05	342+28			124
71	TR22	343+98	344+28			30
71	TR23	344+95	345+24			30
71	TR24	346+41	347+05			69
71	TR25	347+59	347+90			31
71	TR26	350+66	350+94			28
71	TR27	350+90	351+20			30
71	TR28	351+92	352+98			106
71	TR29	351+92	352+20			28
72	TR30	654+86	355+15			29
72	TR31	355+10	355+39			29
72	TR32	355+69	355+99			30
72	TR33	355+91	356+20			29
72	TR34	360+83	361+13			30
73	TR35	364+90	365+19			29
73	TR36	365+84	366+15			31
73	TR37	368+00	368+33			33
73	TR38	368+90	369+21			31
73	TR39	371+36	372+24			88
73	TR40	372+37	372+58			21
74	TR41	375+78	376+07			29
74	TR42	376+50	376+84			34
74	TR43	378+25	378+49			24
74	TR44	379+12	378+42			30
TOTALS CARRIED TO GENERAL SUMMARY					3163	1093

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 EDGE LINE, 4", WHITE FEET
	ELW1	NOT USED			
	ELW2	NOT USED		R	
70	ELW3	340+79	344+21	R	0.06
70	ELW4	341+54	347+05	L	0.11
71	ELW5	344+97	347+05	R	0.04
71	ELW6	345+04	347+05	R	0.04
71	ELW7	347+19	351+05	R	0.07
71	ELW8	347+19	351+05	R	0.07
71	ELW9	347+59	350+94	L	0.06
71	ELW10	351+92	355+09	R	0.06
71	ELW11	351+92	355+17	R	0.06
71	ELW12	351+92	255+38	L	0.07
72	ELW13	355+73	361+13	R	0.10
72	ELW14	355+69	361+13	R	0.10
72	ELW15	355+97	361+13	L	0.10
72	ELW16	361+69	365+19	R	0.07
72	ELW17	361+69	365+19	R	0.07
72	ELW18	361+69	362+46	L	0.01
73	ELW19	362+97	365+19	L	0.04
73	ELW20	362+97	365+19	L	0.04
73	ELW21	365+84	368+13	R	0.04
73	ELW22	365+84	368+33	R	0.05
73	ELW23	365+32	371+58	L	0.12
73	ELW24	365+32	371+58	L	0.12
73	ELW25	368+90	371+58	R	0.05
73	ELW26	368+90	371+58	R	0.05
73	ELW27	372+41	376+14	R	0.07
73	ELW28	372+37	376+14	R	0.07
73	ELW29	372+44	378+62	L	0.12
73	ELW30	372+44	378+62	L	0.12
74	ELW31	376+49	378+56	R	0.04
74	ELW32	376+49	378+57	R	0.04
74	ELW33	379+12	382+00	R	0.05
74	ELW34	379+12	382+00	R	0.05
74	ELW35	379+12	382+00	L	0.05
74	ELW36	379+12	382+00	L	0.05
TOTALS CARRIED TO GENERAL SUMMARY					2.28

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY

PLAN PREPARED BY:
TTL Consulting, Inc.
7238 Central Parke Blvd.
Mason, OH 45040

DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 59 TOTAL 77

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:33 PM USER: alhautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TS005.dgn

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	644 BICYCLE LANE MARKING SYMBOL EACH	644 SHARED LANE MARKING EACH			
70	BL1	341+35		R	1				
71	BL2	343+39		R	1				
71	BL3	345+59		R	1				
71	BL4	347+19		R	1				
71	BL5	348+92		R	1				
71	BL6	350+43		R	1				
71	BL7	352+50		R	1				
72	BL8	354+50		R	1				
72	BL9	356+24		R	1				
72	BL10	358+24		R	1				
72	BL11	360+22		R	1				
72	BL12	362+22		R	1				
73	BL13	363+47		L	1				
73	BL14	364+21		R	1				
73	BL15	365+96		L	1				
73	BL16	366+40		R	1				
73	BL17	367+90		R	1				
73	BL18	368+46		L	1				
73	BL19	369+46		R	1				
73	BL20	371+01		L	1				
73	BL21	371+42		R	1				
73	BL22	372+91		R	1				
74	BL23	373+20		L	1				
74	BL24	375+46		R	1				
74	BL25	375+63		L	1				
74	BL26	377+06		R	1				
74	BL27	378+09		L	1				
74	BL28	379+58		L	1				
74	BL29	379+66		R	1				
70	SH1	342+50		L		1			
71	SH2	344+48		L		1			
71	SH3	346+48		L		1			
71	SH4	348+38		L		1			
71	SH5	350+36		L		1			
71	SH6	352+50		L		1			
72	SH7	354+50		L		1			
72	SH8	356+50		L		1			
72	SH9	358+50		L		1			
72	SH10	360+52		L		1			
72	SH11	362+17		L		1			
66	SH12	300+37		R		1			
66	SH13	300+67		L		1			
66	SH14	302+87		R		1			
67	SH15	303+17		L		1			
67	SH16	304+61		R		1			
67	SH17	304+85		L		1			
67	SH18	307+11		R		1			
67	SH19	307+35		L		1			
67	SH20	308+51		R		1			
67	SH21	308+64		L		1			
67	SH22	310+51		R		1			
67	SH23	310+64		L		1			
67	SH24	312+27		R		1			
67	SH25	312+31		L		1			
68	SH26	315+52		R		1			
68	SH27	314+56		L		1			
TOTALS CARRIED TO GENERAL SUMMARY					29	27			

SHEET NO.	REFERENCE NO.	STATION/LOCATION FROM	STATION/LOCATION TO	SIDE	644 SHARED LANE MARKING EACH	644 WORD ON PAVEMENT, 72" EACH	632 LOOP DETECTOR TIE-IN EACH	632 LOOP DETECTOR EACH		
68	SH28	319+77		R	1					
68	SH29	316+81		L	1					
68	SH30	317+96		L	1					
68	SH31	317+96		R	1					
68	SH32	319+35		R	1					
68	SH33	319+39		L	1					
68	SH34	320+47		R	1					
68	SH35	320+65		L	1					
68	SH36	322+72		R	1					
68	SH37	322+90		L	1					
70	WP1	336+83		R		1				
70	WP2	336+83		R		1				
70	WP3	338+03		R		1				
70	WP4	338+03		R		1				
72	WP5	360+44		L		1				
72	WP6	360+44		R		1				
73	WP7	371+02		L		1				
73	WP8	371+02		R		1				
62	L1	CLENEAY AVE		L			1	1		
62	L2	CLENEAY AVE		L			1	1		
62	L3	CLENEAY AVE		R			1	1		
64	L4	WILLIAMS AVE		L			1	1		
64	L5	WILLIAMS AVE		L			1	1		
64	L6	WILLIAMS AVE		R			1	1		
64	L7	WILLIAMS AVE		R			1	1		
65	L8	HOPKINS AVE		L			1	1		
65	L9	LAFAYETTE AVE		R			1	1		
69	L10	JOSEPH SANKER BLVD		L/R			1	1		
69	L11	JOSEPH SANKER BLVD		L			1	1		
69	L12	JOSEPH SANKER BLVD		L			1	1		
69	L13	NORWOOD AVE		R			1	1		
69	L14	NORWOOD AVE		R			1	1		
69	L15	NORWOOD AVE		R			1	1		
69	L16	NORWOOD AVE		L/R			1	1		
71	L17	FENWICK AVE		L			1	1		
71	L18	FENWICK AVE		L			1	1		
71	L19	INDIAN MOUND AVE		R			1	1		
72	L20	DREX AVE		L			1	1		
73	L21	QUATMAN AVE		L			1	1		
TOTALS CARRIED TO GENERAL SUMMARY					10	8	21	21		

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY

PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Pointe Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 60 TOTAL 77

HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:34 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TS006.dgn

SHEET NO.	REFERENCE NO.	STATION	SIDE	630 GROUND MOUNTED SUPPORT, NO. 2 POST (FT)	SIGN, FLAT SHEET (SF)	SIGN SUPPORT ASSEMBLY, POLE MOUNTED (EACH)	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL (EACH)	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL (EACH)	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL (EACH)	
70	SN-1	335+84.3	R		6.3	1				
70	SN-2	336+66.1	R					1		
70	SN-3	337+46.6	R		4.3	2				
70	SN-4	340+16.2	R		3.0	1				
70	SN-5	341+34.2	L					1		
70	SN-6	342+05.5	L		1.5	1		1		
70	SN-7	342+05.2	R		1.5	1		1		
71	SN-8	343+18.3	R					1		
71	SN-9	343+46.7	L		7.0	2		1		
71	SN-10	344+19.1	R					1		
71	SN-11	344+97.3	L					1		
71	SN-12	345+46.0	R					1		
71	SN-13	345+79.7	L		7.0	2				
71	SN-14	346+39.4	L	12	1.5					
71	SN-15	346+43.0	R	12	1.5		1			
71	SN-16	346+73.0	L					1		
71	SN-17	346+61.5	R					1		
71	SN-18	347+28.9	R		1.5	1		1		
71	SN-19	347+76.0	R					1		
71	SN-20	347+76.0	L		1.5	1		2		
71	SN-21	348+32.9	R				1		1	
71	SN-22	NOT USED								
71	SN-23	348+81.3	L					1		
71	SN-24	349+58.2	L					1		
71	SN-25	350+08.3	R					1		
71	SN-26	350+44.1	L		7.0	2		1		
71	SN-27	351+13.3	R					1		
71	SN-28	352+50.9	R					1		
71	SN-29	352+62.2	L					1		
72	SN-30	353+35.0	L	12	1.5					
72	SN-31	353+42.2	R					1		
72	SN-32	353+48.6	L					1		
72	SN-33	354+19.9	L		7.0	2		1		
72	SN-34	354+61.3	R					1		
72	SN-35	356+51.8	R		1.5	1		1		
72	SN-36	357+28.1	L		7.0	2		1		
72	SN-37	357+40.84	R					1		
72	SN-38	358+03.3	L					1		
72	SN-39	358+72.4	R					1		
72	SN-40	358+81.0	L					1		
72	SN-41	359+62.6	R					1		
72	SN-42	359+91.4	R					1		
72	SN-43	360+33.6	L		7.0	2		1		
72	SN-44	362+29.7	L					1		
73	SN-45	363+04.7	L		6.8	4		1		
73	SN-46	363+23.2	R					1		
73	SN-47	364+22.6	R					1		
73	SN-48	364+27.5	L		1.5	1		1		
73	SN-49	365+23.1	L		1.5	1		1		
73	SN-50	365+86.4	L		1.5	1		1		
73	SN-51	367+37.7	R					1		
73	SN-52	367+72.0	L		1.5	1		1		
73	SN-53	368+13.3	R					1		
73	SN-54	369+20.3	L		1.5	1		1		
73	SN-55	370+25.9	L		1.5	1		1		
73	SN-56	370+31.9	R					1		
73	SN-57	370+98.0	R					1		
TOTALS CARRIED TO GENERAL SUMMARY				36	83.4	31	2	49	1	

SHEET NO.	REFERENCE NO.	STATION	SIDE	630 GROUND MOUNTED SUPPORT, NO. 2 POST (FT)	SIGN, FLAT SHEET (SF)	SIGN SUPPORT ASSEMBLY, POLE MOUNTED (EACH)	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL (EACH)
73	SN-58	372+68.3	R				1
74	SN-59	373+66.0	R				1
74	SN-60	375+51.9	L		1.5	1	1
74	SN-61	375+72.5	R				1
74	SN-62	377+51.4	L	12	1.5		1
74	SN-63	377+62.6	R				1
74	SN-64	378+07.8	R				1
74	SN-65	379+53.9	R				1
TOTALS CARRIED TO GENERAL SUMMARY				12	3	1	8

SIGNAGE SUBSUMMARY

DESIGN AGENCY
PLAN PREPARED BY:
TEC Consulting, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
AAH

REVIEWER
DGO 03/11/25

PROJECT ID
115747

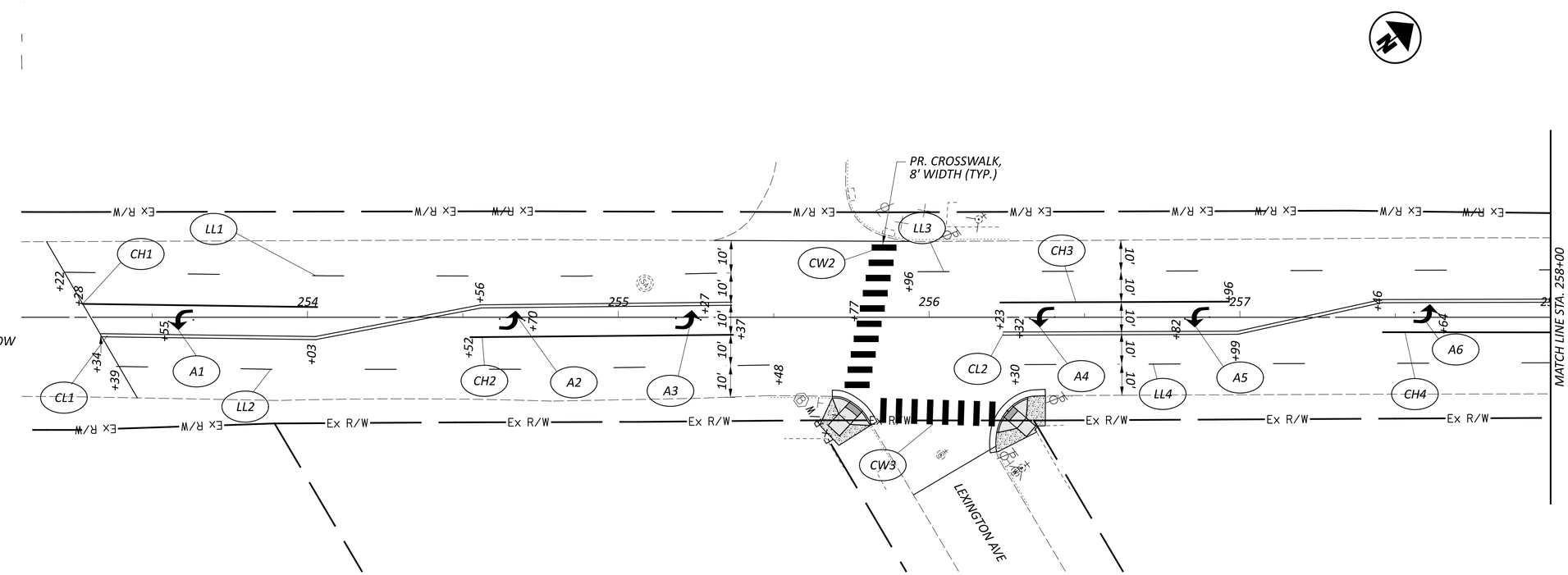
SHEET 61 TOTAL 77

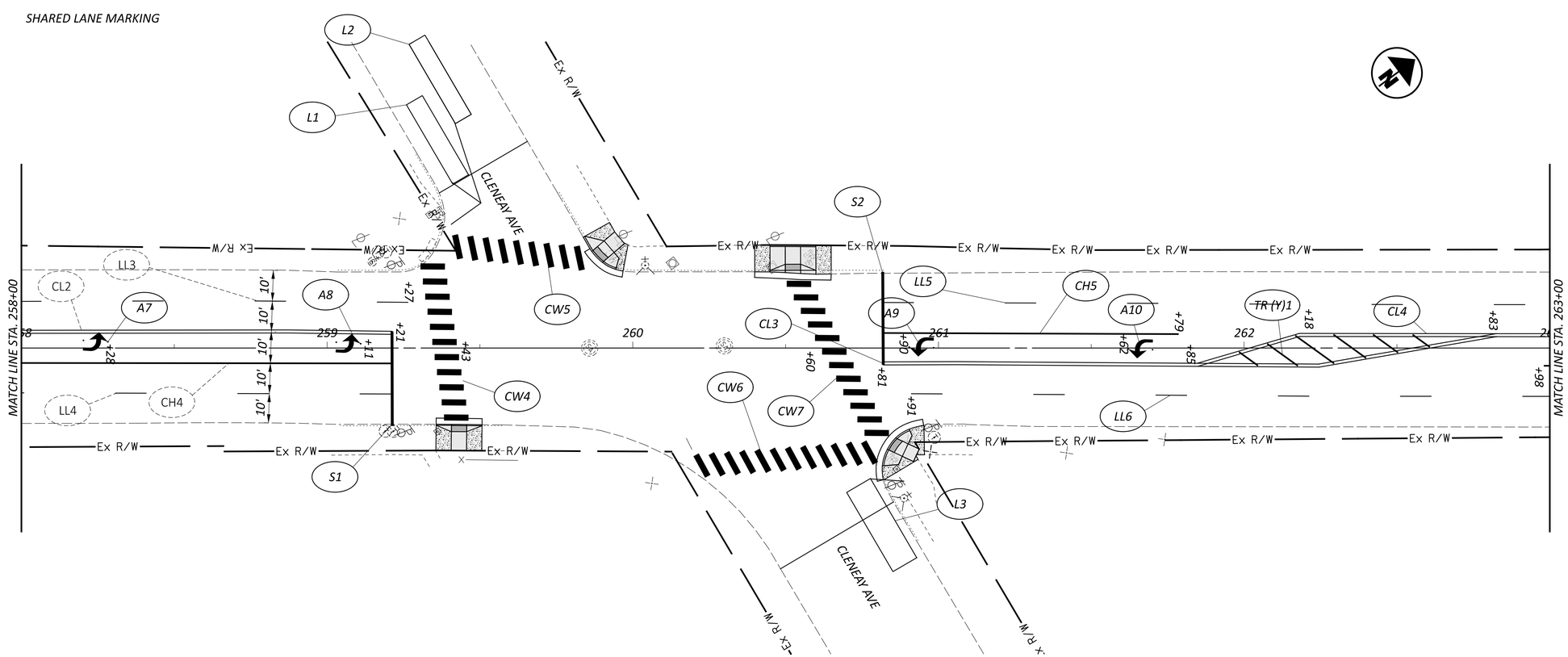
HAM-US22-4.807

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:35 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TS007.dgn

LEGEND

CL	CENTERLINE, 4" DOUBLE SOLID
CH	CHANNELZING , 4"
LL	LANE LINE, 4"
A	LANE ARROW, 72"
CW	CROSSWALK LINE, 24"
S	STOP LINE, 24"
TR (W/Y)	TRANSVERSE LINE, 12", WHITE/YELLOW
P	PARKING STALL LINE
W	WORD ON PAVEMENT, 72" LETTERS
L	LOOP DETECTOR
DL	DOTTED LINE, 4"
DCL	DOTTED CENTER LINE, 4"
IM	ISLAND MARKING
SH	SHARED LANE MARKING





HORIZONTAL SCALE IN FEET
0 10 20 40

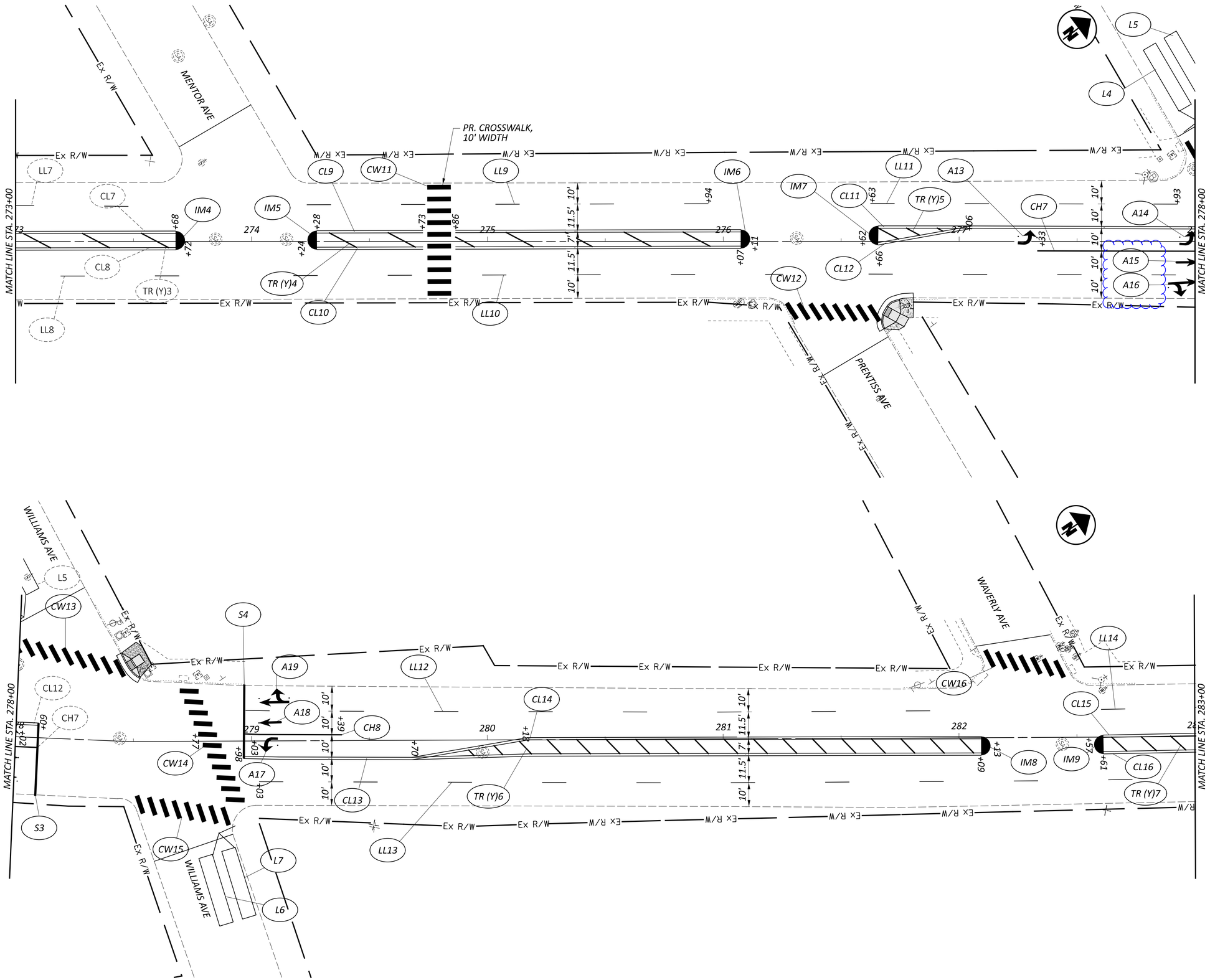
PAVEMENT MARKING PLAN
STA. 253+00 TO 263+00

DESIGN AGENCY
PLAN PREPARED BY:
TTE Consulting, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER: EAS
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 62 TOTAL 77

HAM-US22-4.807

MODEL: CLP_2 - PVMT PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:38 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TP001.dgn



HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT MARKING PLAN
STA. 273+00 TO 283+00

DESIGN AGENCY
PLAN PREPARED BY:
TTC Consulting, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 64 TOTAL 77

HAM-US22-4.807

MODEL: CLP_2 - PVMT-4 PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:40 PM USER: ahautman
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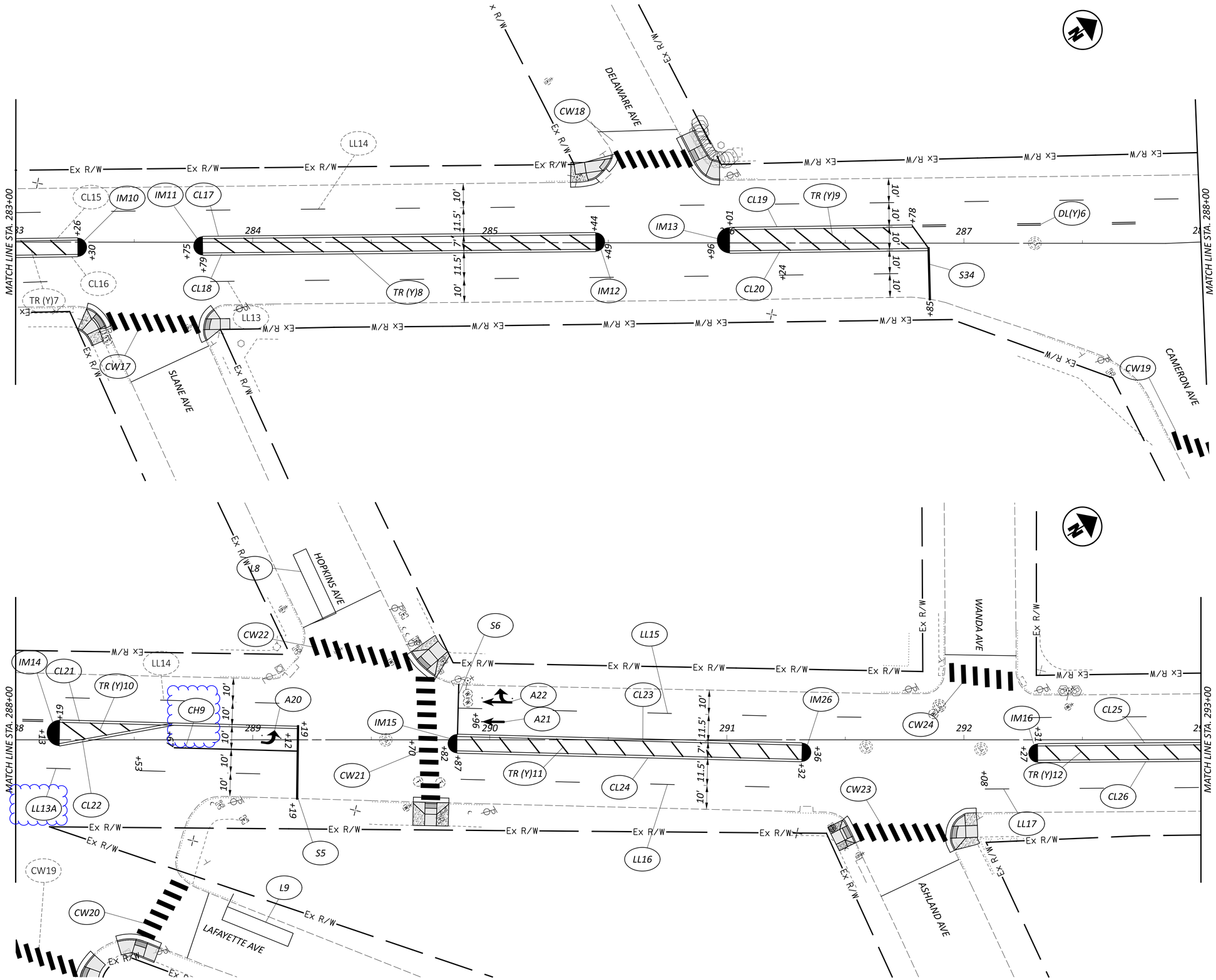

HAM-US22-4.807

MODEL: CLP_2 - PVMT-6 PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:41 PM USER: ahautman
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HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT MARKING PLAN
STA. 283+00 TO 293+00

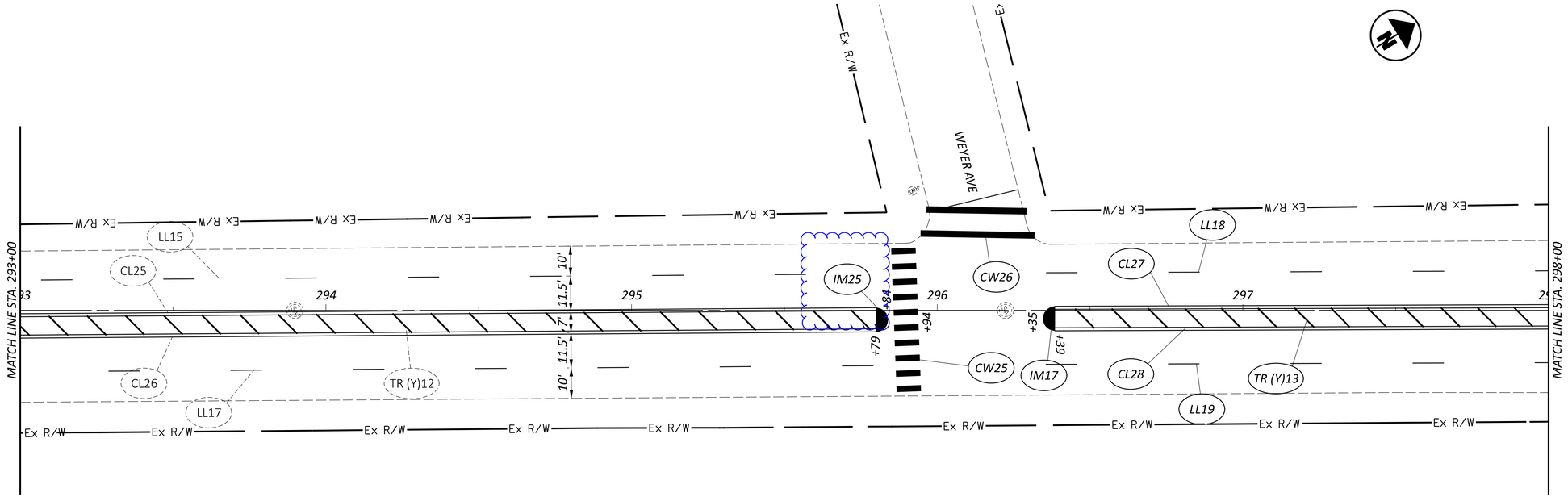
DESIGN AGENCY
PLAN PREPARED BY:
TEC Consultants, Inc.
7238 Central Parke Blvd.
Mason, OH 45040

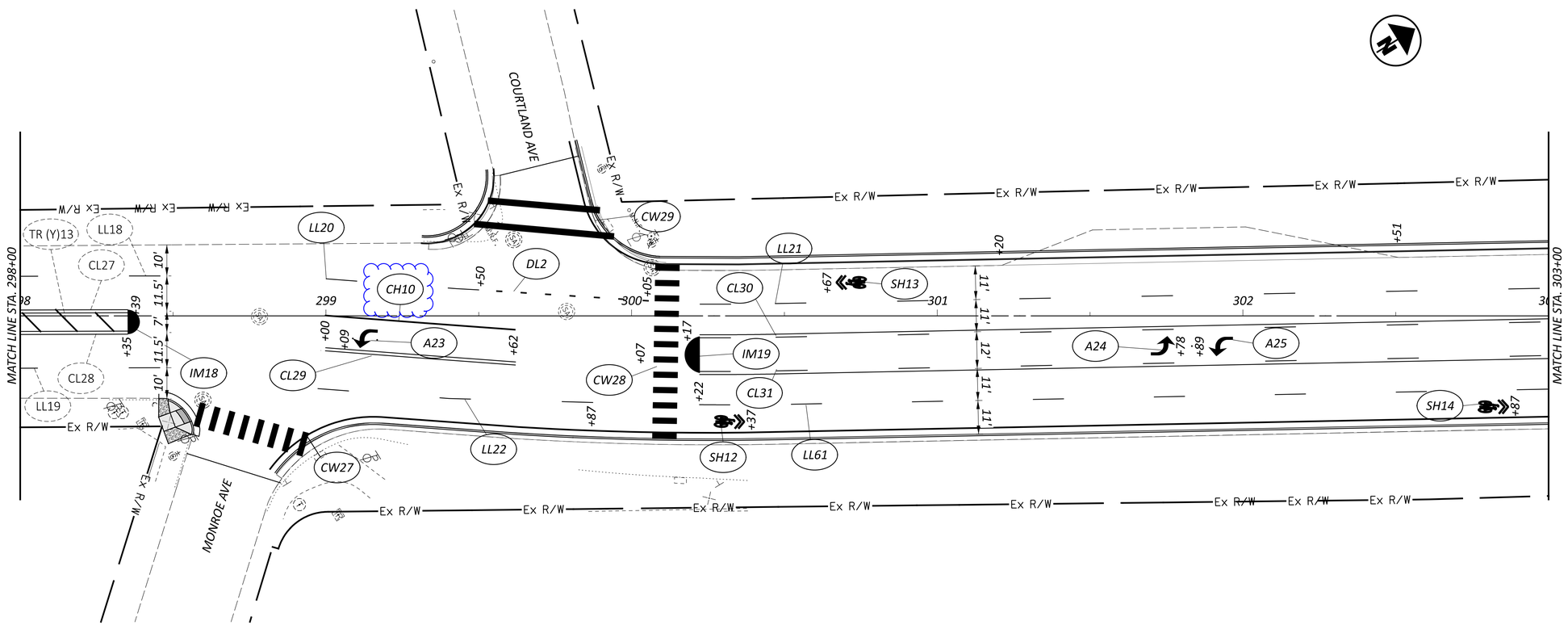
DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 65 TOTAL 77





HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT MARKING PLAN
STA. 293+00 TO 303+00

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 66 TOTAL 77

HAM-US22-4.807

MODEL: CLP_2 - PVMT-8 PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:43 PM USER: ahautman
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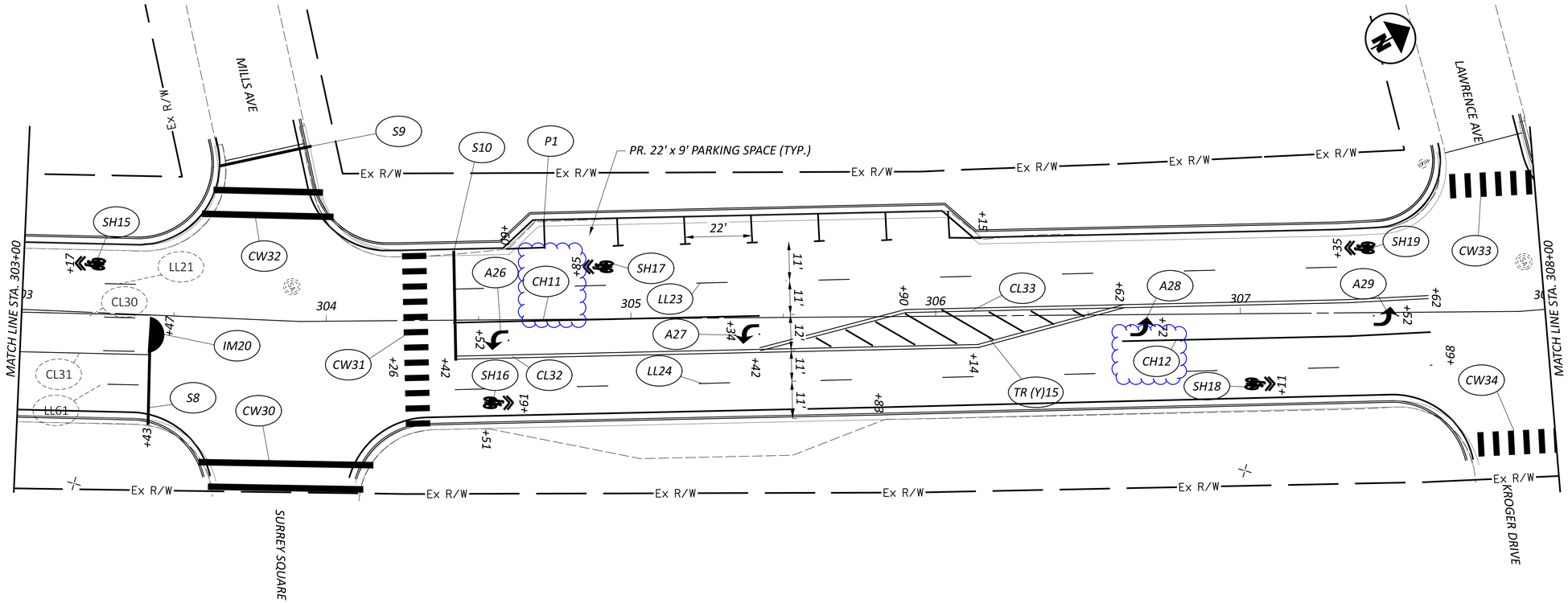

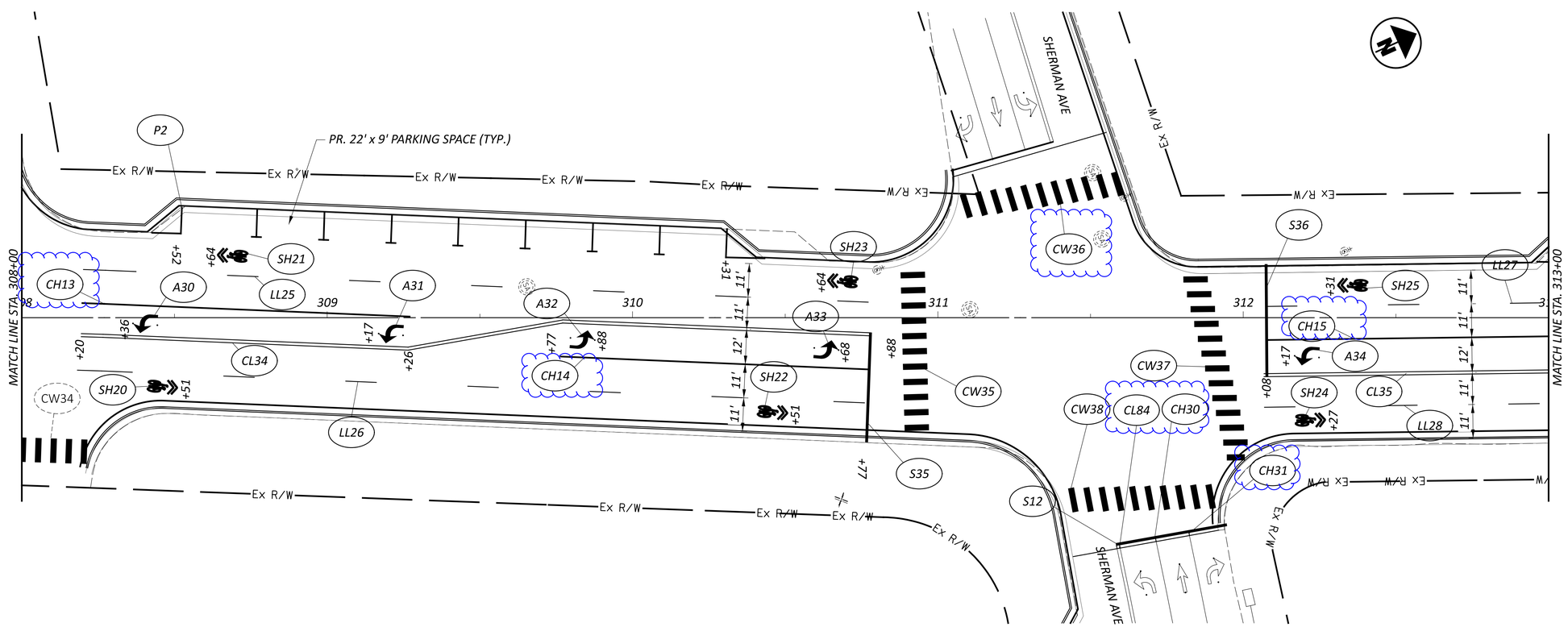

HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT MARKING PLAN
STA. 303+00 TO 313+00

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER
EAS

REVIEWER
DGO 03/11/25

PROJECT ID
115747

SHEET 67 TOTAL 77

HAM-US22-4.807

MODEL: CLP_2 - PVMT-10 PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:44 PM USER: ahautman
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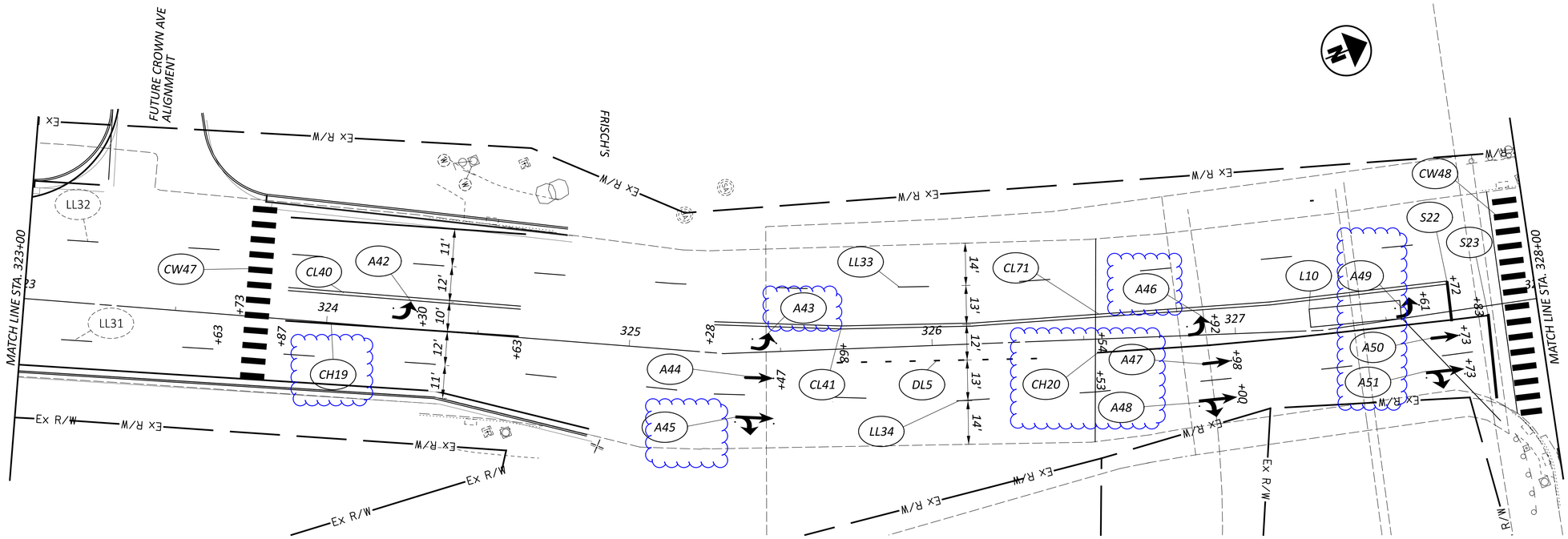
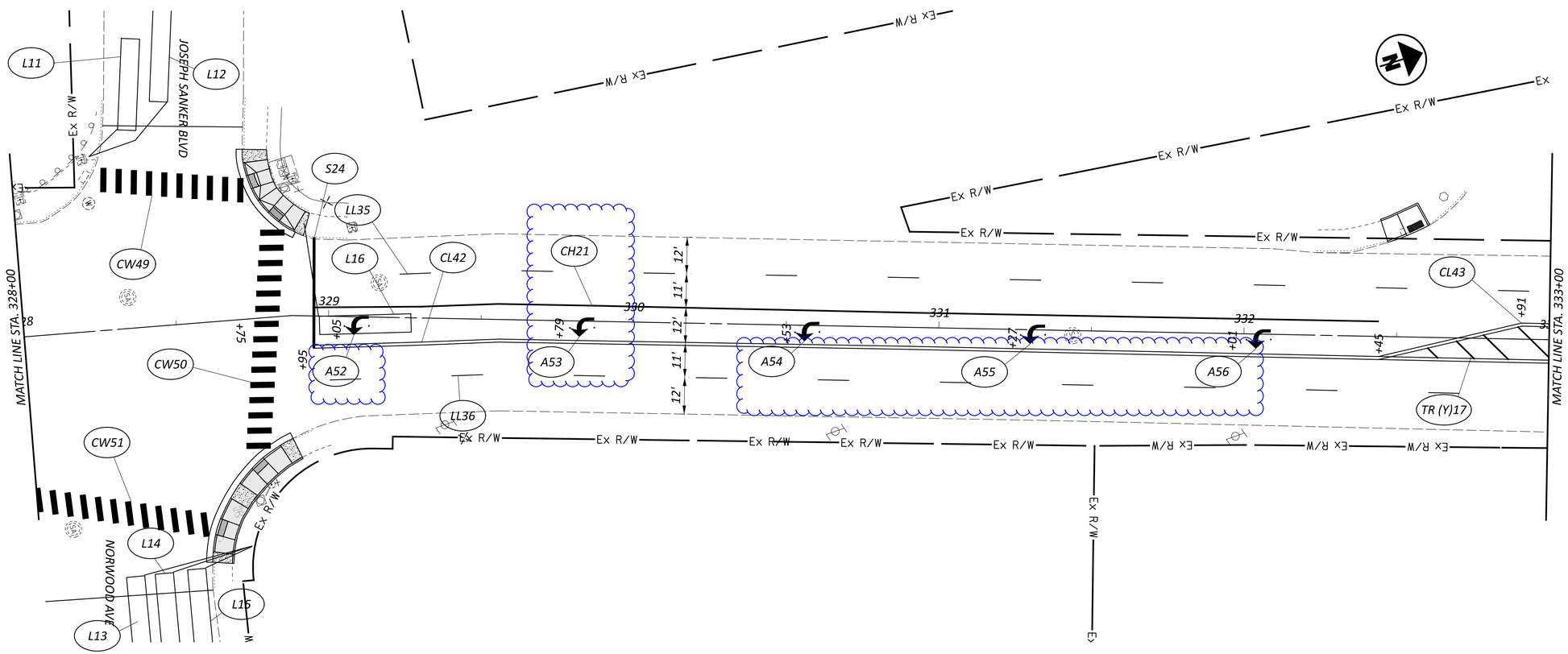




HORIZONTAL SCALE IN FEET
0 10 20 40

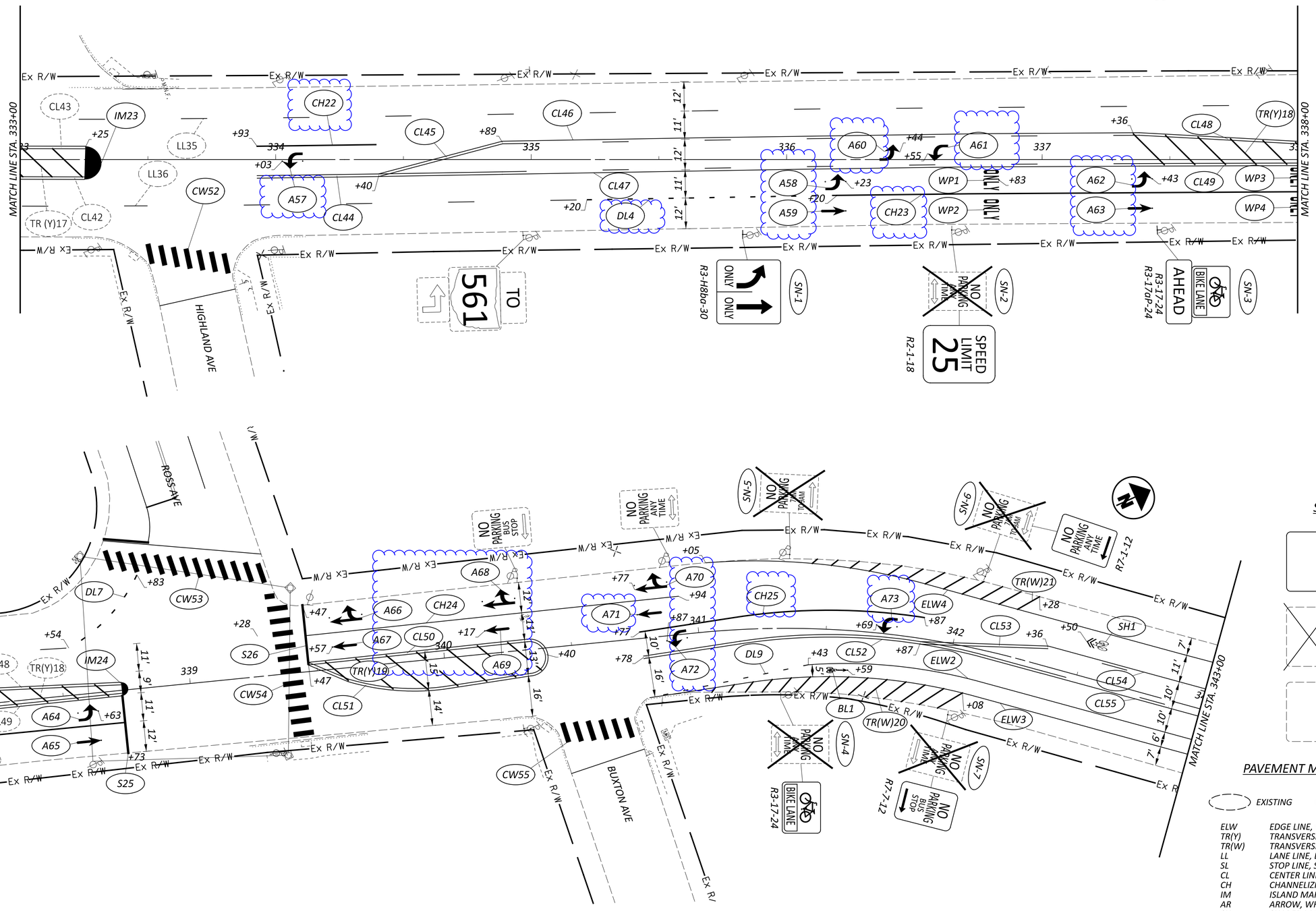
PAVEMENT MARKING PLAN
STA. 323+00 TO 333+00

DESIGN AGENCY
PLAN PREPARED BY:
TTE Engineering, Inc.
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER: EAS
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 69 TOTAL 77

HAM-US22-4.807

MODEL: CLP_2 - PVMT-14 PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:47 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TP001.dgn



SIGN LEGEND

PROPOSED SIGN

EXISTING SIGN, TO BE REMOVED

EXISTING SIGN, DO NOT DISTURB

PAVEMENT MARKINGS LEGEND

EXISTING — PROPOSED

ELW	EDGE LINE, WHITE, 4"
TR(Y)	TRANSVERSE LINE, YELLOW, 24"
TR(W)	TRANSVERSE LINE, WHITE, 24"
LL	LANE LINE, DASHED WHITE, 4"
SL	STOP LINE, SOLID WHITE, 24"
CL	CENTER LINE, SOLID DOUBLE YELLOW, 4"
CH	CHANNELIZING LINE, WHITE, 8"
IM	ISLAND MARKING, WHITE
AR	ARROW, WHITE, 72"
SH	SHARED LANE MARKING
BL	BICYCLE LANE MARKING

HORIZONTAL SCALE IN FEET 0 10 20 40

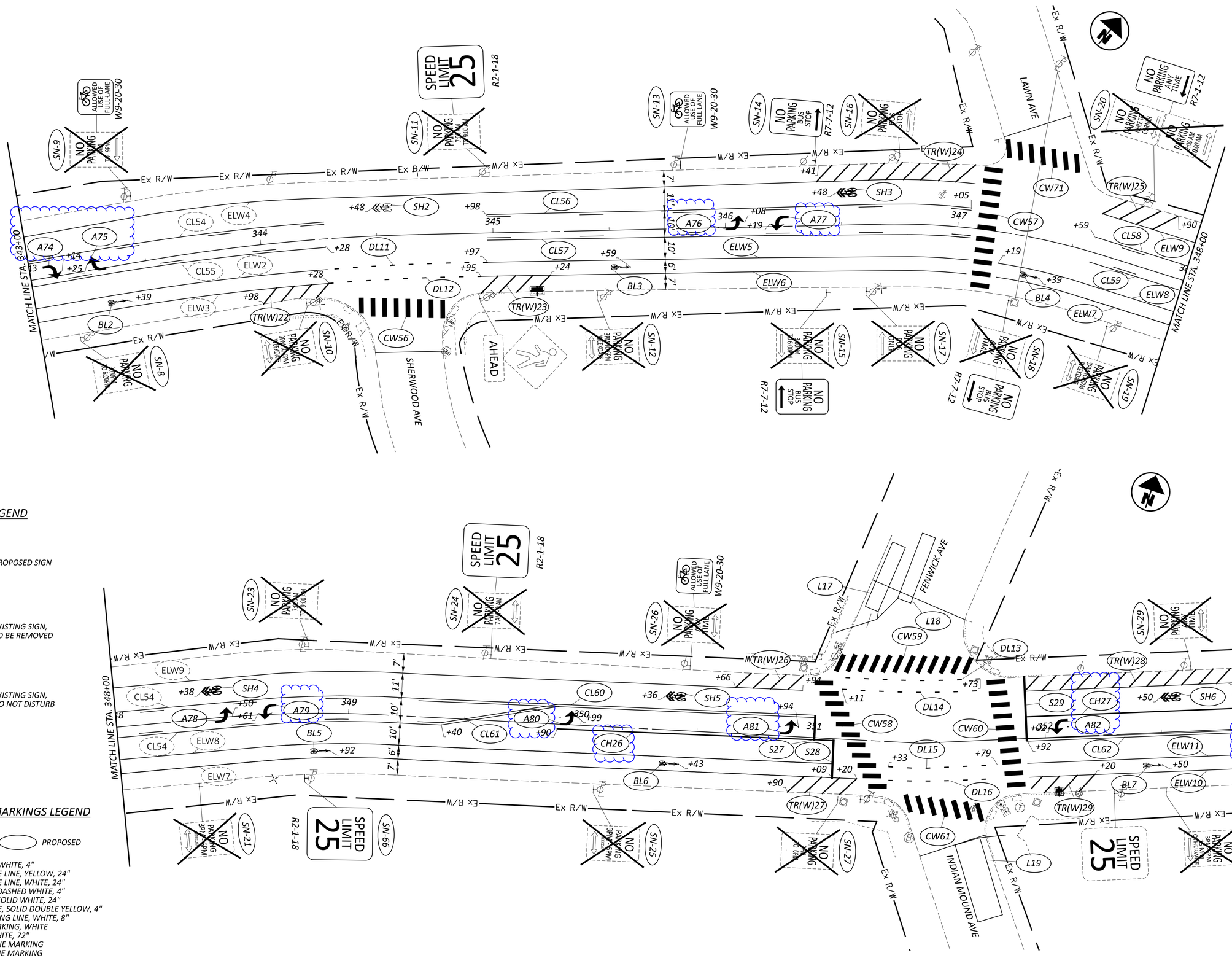
PAVEMENT MARKINGS & SIGNAGE PLAN
STA. 333+00.0 TO 343+00.0

DESIGN AGENCY
TEC
PLAN PREPARED BY: TEC Cincinnati, Inc. 7288 Central Parke Blvd. Mason, OH 45040

DESIGNER: AAH
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 70 TOTAL 77

HAM-US22-4.807

MODEL: CLP_US22 - PVMTMRK Plan [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:50 PM USER: ahautman
\\10.1.1.4\projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TP002.dgn



SIGN LEGEND

- PROPOSED SIGN
- EXISTING SIGN, TO BE REMOVED
- EXISTING SIGN, DO NOT DISTURB

PAVEMENT MARKINGS LEGEND

EXISTING — PROPOSED

ELW	EDGE LINE, WHITE, 4"
TR(Y)	TRANSVERSE LINE, YELLOW, 24"
TR(W)	TRANSVERSE LINE, WHITE, 24"
LL	LANE LINE, DASHED WHITE, 4"
SL	STOP LINE, SOLID WHITE, 24"
CL	CENTER LINE, SOLID DOUBLE YELLOW, 4"
CH	CHANNELIZING LINE, WHITE, 8"
IM	ISLAND MARKING, WHITE
AR	ARROW, WHITE, 72"
SH	SHARED LANE MARKING
BL	BICYCLE LANE MARKING

PAVEMENT MARKINGS & SIGNAGE PLAN
STA. 343+00.0 TO 353+00.0

HAM-US22-4.807

MODEL: CLP_US22 - PVMTMRK Plan-2 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:51 PM USER: ahautman
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DESIGN AGENCY
TEC
PLAN PREPARED BY: TEC Consulting, Inc. 7288 Central Parke Blvd. Mason, OH 45040

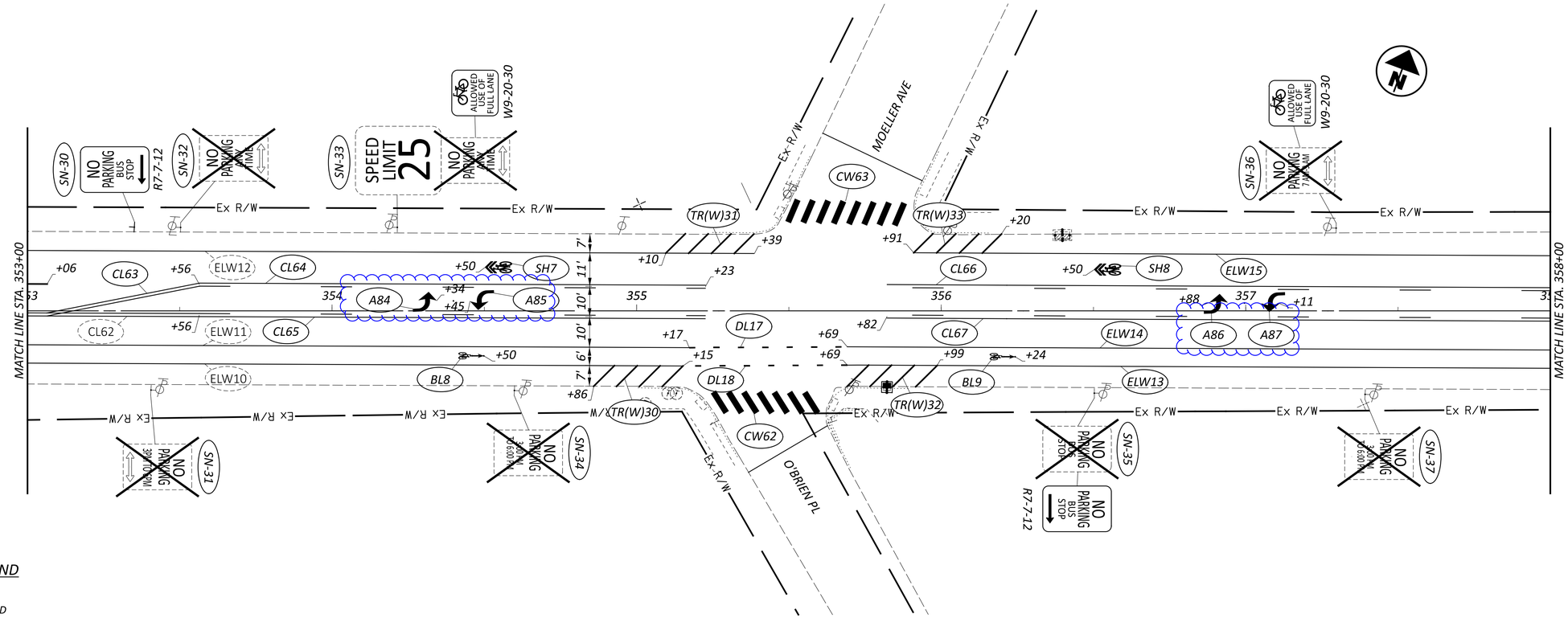
DESIGNER: AAH
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 71 TOTAL 77

SIGN LEGEND

PROPOSED SIGN

EXISTING SIGN, TO BE REMOVED

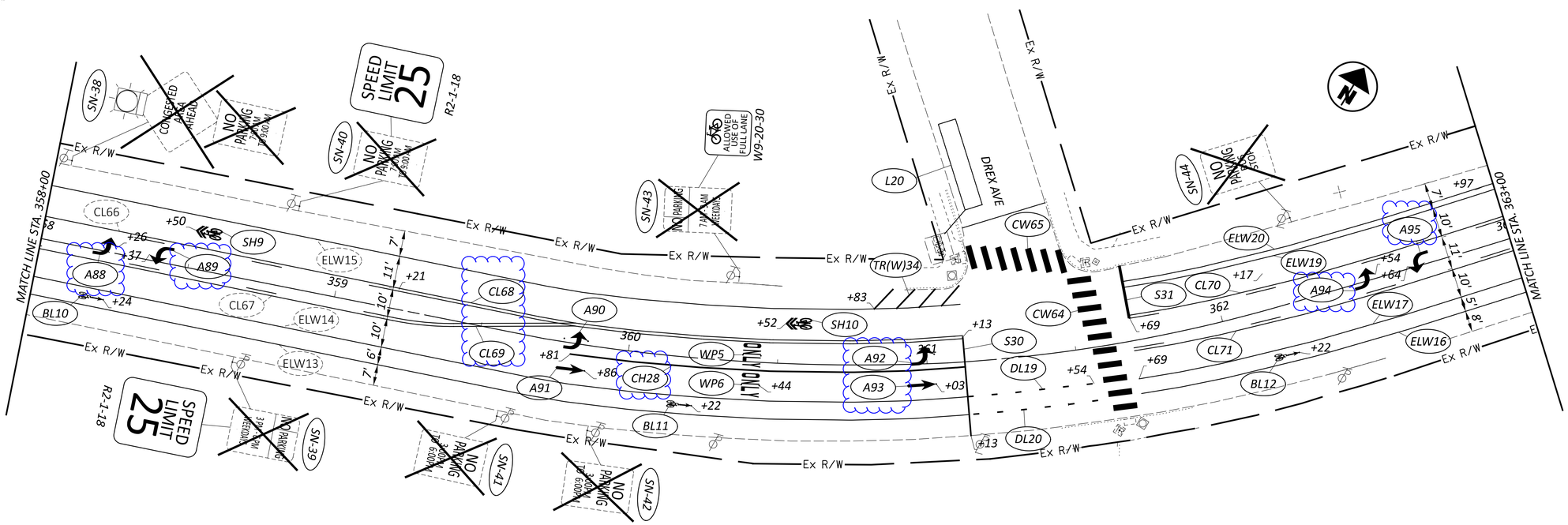
EXISTING SIGN, DO NOT DISTURB



PAVEMENT MARKINGS LEGEND

EXISTING — PROPOSED

ELW	EDGE LINE, WHITE, 4"
TR(Y)	TRANSVERSE LINE, YELLOW, 24"
TR(W)	TRANSVERSE LINE, WHITE, 24"
LL	LANE LINE, DASHED WHITE, 4"
SL	STOP LINE, SOLID WHITE, 24"
CL	CENTER LINE, SOLID DOUBLE YELLOW, 4"
CH	CHANNELIZING LINE, WHITE, 8"
IM	ISLAND MARKING, WHITE
AR	ARROW, WHITE, 72"
SH	SHARED LANE MARKING
BL	BICYCLE LANE MARKING



HORIZONTAL SCALE IN FEET 0 10 20 40

PAVEMENT MARKINGS & SIGNAGE PLAN
STA. 353+00.0 TO 363+00.0

DESIGN AGENCY

PLAN PREPARED BY: TEC Engineering, Inc. 7288 Central Parke Blvd. Mason, OH 45040

DESIGNER: AAH

REVIEWER: DGO 03/11/25

PROJECT ID: 115747

SHEET 72 TOTAL 77

HAM-US22-4.807

MODEL: CLP_US22 - PVMTMRK Plan-4 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:53 PM USER: ahautman
\\10.1.1.4\Projects\2022 Projects\22039 JMA Consultants\007 Urban Paving - US 22 Norwood\22039-007\400-Engineering\Traffic\Sheets\22039-007_TP002.dgn

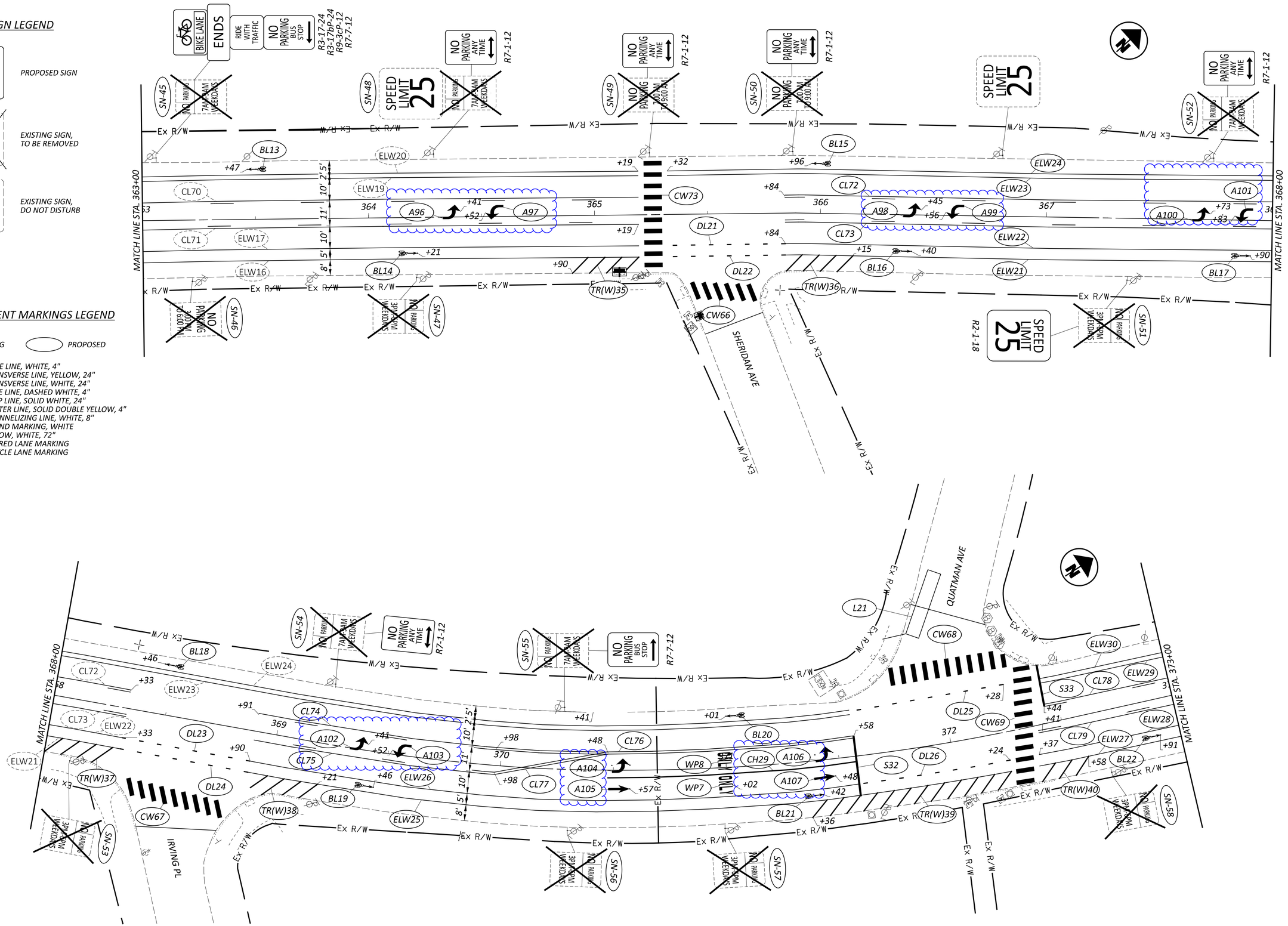
SIGN LEGEND

- PROPOSED SIGN
- EXISTING SIGN, TO BE REMOVED
- EXISTING SIGN, DO NOT DISTURB

PAVEMENT MARKINGS LEGEND

EXISTING — PROPOSED

ELW	EDGE LINE, WHITE, 4"
TR(Y)	TRANSVERSE LINE, YELLOW, 24"
TR(W)	TRANSVERSE LINE, WHITE, 24"
LL	LANE LINE, DASHED WHITE, 4"
SL	STOP LINE, SOLID WHITE, 24"
CL	CENTER LINE, SOLID DOUBLE YELLOW, 4"
CH	CHANNELIZING LINE, WHITE, 8"
IM	ISLAND MARKING, WHITE
AR	ARROW, WHITE, 72"
SH	SHARED LANE MARKING
BL	BICYCLE LANE MARKING



HORIZONTAL SCALE IN FEET
0 10 20 40

PAVEMENT MARKINGS & SIGNAGE PLAN
STA. 363+00.0 TO 373+00.0

DESIGN AGENCY
PLAN PREPARED BY:
TEC Engineering
7288 Central Parke Blvd.
Mason, OH 45040

DESIGNER: AAH
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 73 TOTAL 77

HAM-US22-4.807

MODEL: CLP_US22 - PVMTMRK Plan-6 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:54 PM USER: ahautman
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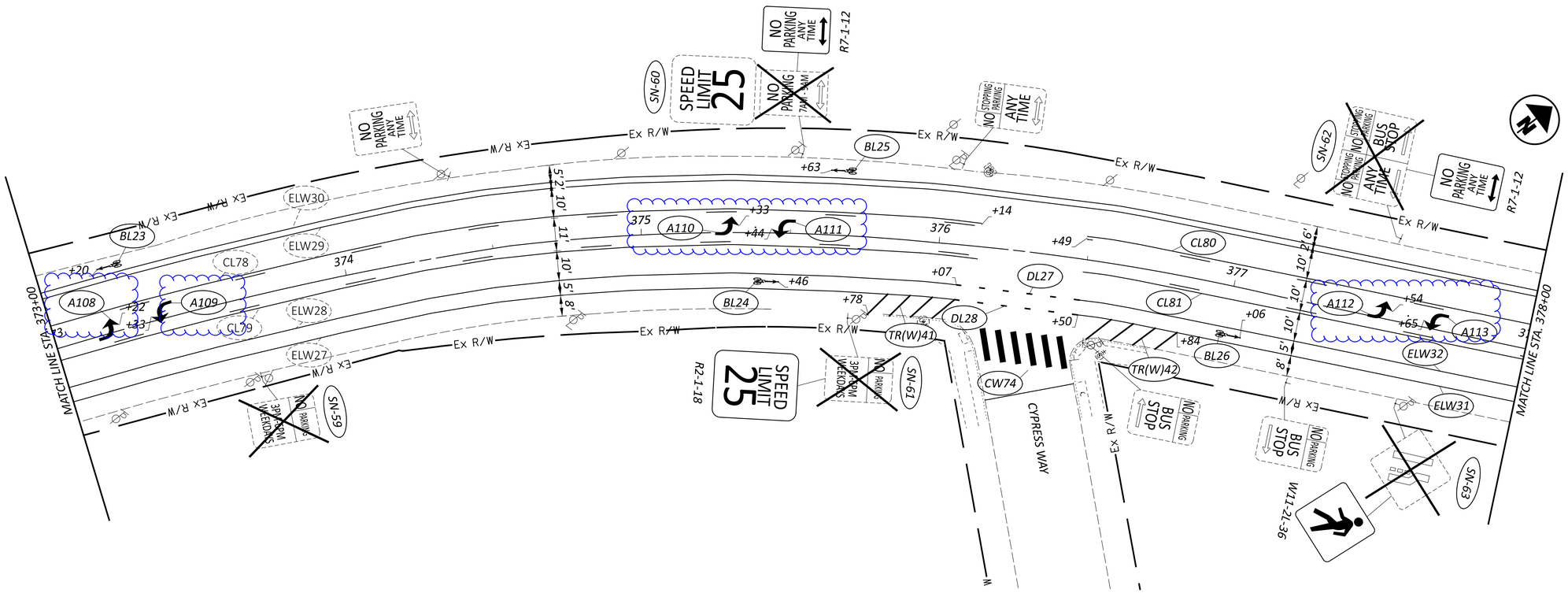

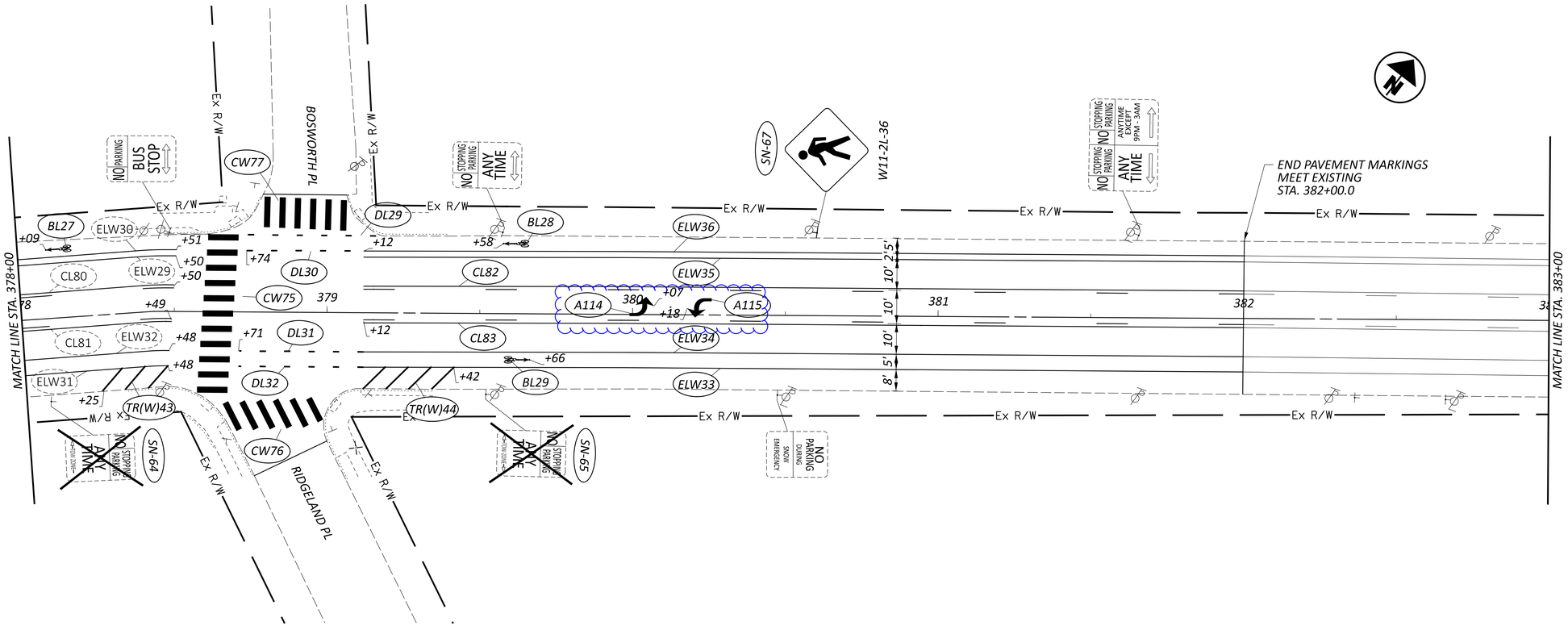

SIGN LEGEND

- PROPOSED SIGN
- EXISTING SIGN, TO BE REMOVED
- EXISTING SIGN, DO NOT DISTURB

PAVEMENT MARKINGS LEGEND

EXISTING — PROPOSED

ELW	EDGE LINE, WHITE, 4"
TR(Y)	TRANSVERSE LINE, YELLOW, 24"
TR(W)	TRANSVERSE LINE, WHITE, 24"
LL	LANE LINE, DASHED WHITE, 4"
SL	STOP LINE, SOLID WHITE, 24"
CL	CENTER LINE, SOLID DOUBLE YELLOW, 4"
CH	CHANNELIZING LINE, WHITE, 8"
IM	ISLAND MARKING, WHITE
AR	ARROW, WHITE, 72"
SH	SHARED LANE MARKING
BL	BICYCLE LANE MARKING

HORIZONTAL SCALE IN FEET 0 10 20 40

PAVEMENT MARKINGS & SIGNAGE PLAN
STA. 373+00.0 TO 383+00.0

DESIGN AGENCY
TEC
PLAN PREPARED BY: TEC Engineering, Inc. 7288 Central Parke Blvd. Mason, OH 45040

DESIGNER: AAH
REVIEWER: DGO 03/11/25
PROJECT ID: 115747
SHEET 74 TOTAL 77

HAM-US22-4.807

MODEL: CLP_US22 - PVMTMRK Plan-8 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 3/17/2025 TIME: 4:17:55 PM USER: ahautman
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