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LIST OF STATE STANDARDS - CONTINUED

STANDARD NO.	DESCRIPTION
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 2' FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 2' FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <= 40 MPH
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2 WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-11	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

GENERAL NOTES - CONTINUED

- 9) BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 10) THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, BRANDY KENNEDY AT BRANDY.KENNEDY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 11) PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 12) ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 13) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 14) THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 15) FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- 16) ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- 17) THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY OR ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- 18) ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 19) BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER SO THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 20) DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- 21) LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 22) DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 23) WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (85 KM/H) OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (85 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- 24) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 25) EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 26) ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF CURB OR DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
- 27) THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-06	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-05	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-06	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-07	DEPRESSED CORNER FOR SIDEWALKS
442201-04	CLASS C AND D PATCHES
604001-05	FRAME AND LIDS, TYPE 1
606001-09	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

GENERAL NOTES

- 1) BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- 2) THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF MUNDELEIN.
- 3) THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4) DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 5) TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSISTIONS SHALL BE PAID FOR AT THE CONTRAT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- 6) ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- 7) THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT DURING THE CONSTRUCTION OF THIS PROJECT.
- 8) TEMPORARY PAVEMENT MARKINGS OR SHORT TERM PAVEMENT MARKINGS ON INTERMEDIATE SURFACES SHALL NOT BE REMOVED, UNLESS DIRECTED BY THE ENGINEER

FILE NAME = p:\1\dot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 1\ORD Projects\US 45 (Lake St.)\Drawings\CADData\CADsheets\US 45 (Lake St.)\Sheet-1-sh-t-cover.dgn	USER NAME = yaseen.queeshi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 45 (LAKE ST.) FROM ILL 176 (MAPLE AVE.) TO WOODLAWN DR. INDEX OF SHEETS, STANDARDS & GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.000 ' / 1 in.	CHECKED -	REVISED -			344	2025-2026-R5	LAKE	50	2
	PLOT DATE = 8/15/2025	DATE -	REVISED -			CONTRACT NO. 80B50				
						ILLINOIS FED. AID PROJECT				
	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS			STA. TO STA.				

SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	0005 ROADWAY 80% FED /20% STATE		0005 ROADWAY 100% STATE					
20200100	EARTH EXCAVATION	CU YD	25	25						
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	175	175						
25200110	SODDING, SALT TOLERANT	SO YD	175	175						
25200200	SUPPLEMENTAL WATERING	UNIT	5	5						
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	27868	27868						
40600370	LONGITUDINAL JOINT SEALANT	FOOT	17091	17091						
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	62	62						
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	390	390						
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1704	1704						
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	4085	4085						
42001300	PROTECTIVE COAT	SO YD	825	825						
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	5406	5406						
42400800	DETECTABLE WARNINGS	SO FT	415	415						
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	19	19						

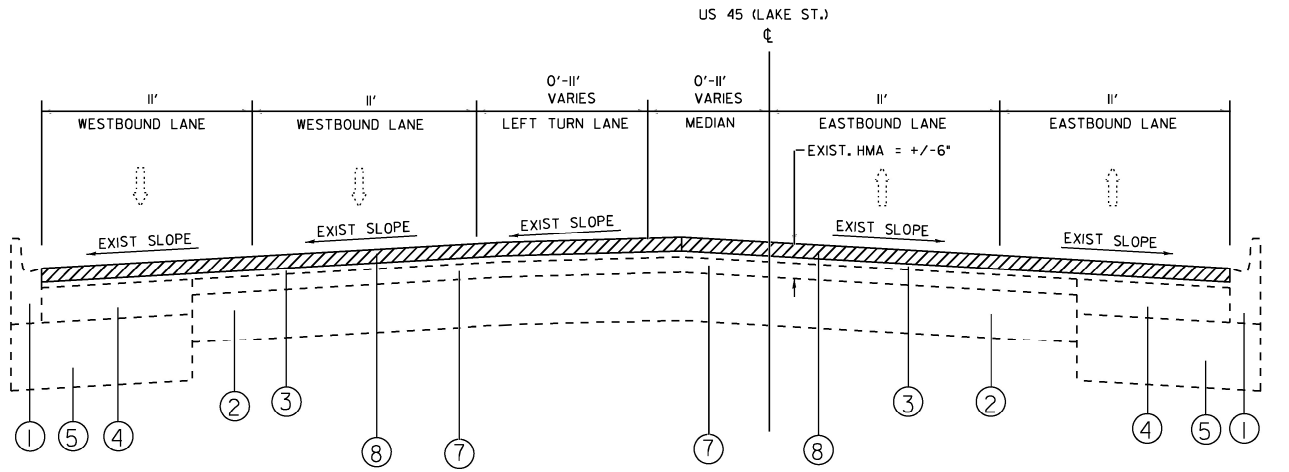
SUMMARY OF QUANTITIES				TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	0005 ROADWAY 80% FED /20% STATE		0005 ROADWAY 100% STATE					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	41676	41676						
44000600	SIDEWALK REMOVAL	SO FT	5362	5362						
44201773	CLASS D PATCHES, TYPE I, 11 INCH	SO YD	100	100						
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SO YD	1000	1000						
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SO YD	500	500						
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SO YD	400	400						
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1						
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1						
60260100	INLETS TO BE ADJUSTED	EACH	5	5						
60266600	VALVE BOXES TO BE ADJUSTED	EACH	4	4						
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	9	9						
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	3						
60604400	COMBINATION CONCRETE CURB AND GITTER, TYPE B-6.18	FOOT	807	807						
60920012	PIPE CULVERTS TO BE CLEANED 12"	FOOT	200	200						
60920018	PIPE CULVERTS TO BE CLEANED 18"	FOOT	200	200				* SPECIALTY ITEM		
								# NON PARTICIPATING ITEM		

FILE NAME =		USER NAME = yoseenqureshi		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				US 45 (LAKE ST.) FROM ILL 176 (MAPLE AVE.) TO WOODLAWN DR. SUMMARY OF QUANTITIES				F.A.P. RTE.		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 8/15/2025		DATE -		REVISED -		CONTRACT NO. 80B50																
						SCALE: NONE										SHEET NO. 1 OF 4 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

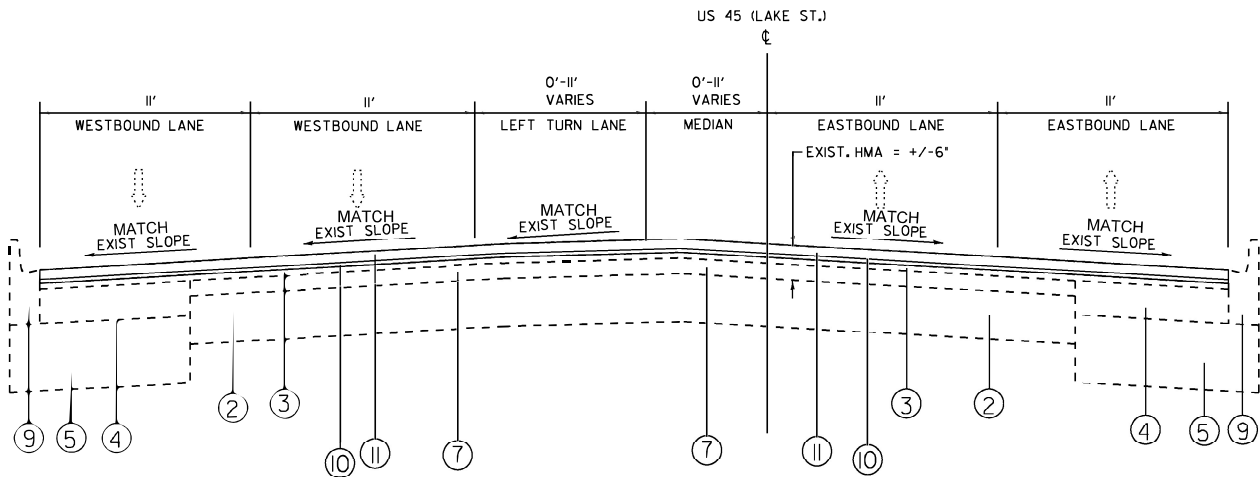
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE							SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE							
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE							
60920024	PIPE CULVERTS TO BE CLEANED 24"	FOOT	200		200					70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3077	3077								
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	25	25						70300211	TEMPORARY PAVEMENT MARKING LETTERS AND	SQ FT	849	849								
											SYMBOLS - PAINT											
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1																		
										70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	18095	18095								
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1																		
										70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	4725	4725								
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION	L SUM	1	1																		
	REPORT									70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	1540	1540								
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	15	15						70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	658	658								
67100100	MOBILIZATION	L SUM	1	1						70307120	TEMPORARY PAVEMENT MARKING - LINE 4"-	FOOT	3077	3077								
											TYPE IV TAPE											
70102625	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1																		
	STANDARD 701606								*	78000100	THERMOPLASTIC PAVEMENT MARKING -	SQ FT	849	849								
											LETTERS AND SYMBOLS											
70102632	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1																		
	STANDARD 701602								*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18095	18095								
70102634	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1						*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4725	4725							
	STANDARD 701611																					
										*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1540	1540							
70102635	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1																		
	STANDARD 701701									*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	658	658							
70102640	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1						*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	721	721							
	STANDARD 701801																					
										78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	721	721			* SPECIALTY ITEM					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	12308	12308													# NON PARTICIPATING ITEM					
FILE NAME =		USER NAME = yassen@questiv		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				US 45 (LAKE ST.) FROM ILL 176 (MAPLE AVE.) TO WOODLAWN DR. SUMMARY OF QUANTITIES				F.A.P. RTE.		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 8/15/2025		DATE -		REVISED -																CONTRACT NO. 80850		
																SCALE: NONE		SHEET NO. 2 OF 4 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE														
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE													
✱ 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	185	185						X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1														
	2" DIA.									X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	143	143														
✱ 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	4	4						✱ X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	10	10														
	INSTALLATION																											
✱ 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	1656	1656						✱ X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1	1														
	14 2C																											
										X4400501	COMBINATION CURB AND GUTTER REMOVAL AND	FOOT	110	110														
✱ 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	71	71							REPLACEMENT LESS THAN OR EQUAL TO 10																	
	14 3C									FEET																		
✱ 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	244	244																								
	GROUNDING CONDUCTOR, NO. 6 1C								X4400503	COMBINATION CURB AND GUTTER REMOVAL AND	FOOT	1257	1257															
										REPLACEMENT GREATER THAN 10 FEET																		
✱ 87900200	DRILL EXISTING HANDHOLE	EACH	10	10						# X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	400		400													
✱ 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE,	EACH	1	1																								
	BRACKET MOUNTED WITH COUNTDOWN								X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	51	51															
	TIMER																											
✱ 88600100	DETECTOR LOOP, TYPE I	FOOT	2366	2366																								
									X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	154	154															
✱ 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	203	203						X8500110	MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION	EACH	1	1														
									X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	32	32															
✱ 89502375	REMOVE EXISTING TRAFFIC SIGNAL	EACH	4	4																								
	EQUIPMENT								✱ X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH	FOOT	44	44															
										DIAMETER																		
89502376	REBUILD EXISTING HANDHOLE	EACH	2	2																								
									# Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	20		20			✱ SPECIALTY ITEM											
																	# NON PARTICIPATING ITEM											
FILE NAME =		USER NAME = yoseen@questll		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				US 45 (LAKE ST.) FROM ILL 176 (MAPLE AVE.) TO WOODLAWN DR. SUMMARY OF QUANTITIES				F.A.P. RTE. 344		SECTION 2025-2026-RS		COUNTY LAKE	TOTAL SHEETS 50	SHEET NO. 5						
pw:/11dot-pw.bentley.com/PWIDOT/ Documents/11DOT Offices/District I/ORD Projects/US 45 (Lake Street)/CADData/Drawings/US 45 (Lake Street)-shl-cover.dgn		PLOT SCALE = 100.095 ' / 1 in.		CHECKED -		REVISED -												CONTRACT NO. 80B50										
		PLOT DATE = 8/15/2025		DATE -		REVISED -																						
																		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT										

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EXISTING TYPICAL SECTION
STA. 14+75 TO STA. 55+50



PROPOSED TYPICAL SECTION
STA. 14+75 TO STA. 55+50

LEGEND

- EXISTING COMBINATION CONCRETE CURB AND GUTTER
- EXISTING P.C. CONCRETE BASE COURSE, 9"
- EXISTING HMA SURFACE COURSE, 3" (BEFORE MILLING)
- EXISTING HMA BINDER COURSE, 10 1/4"
- EXISTING AGGREGRAE SUBGRADE
- EXISTING SUB-BASE, 4"
- EXISTING HMA PAVEMENT, 3" & VARIES
- PROPOSED HMA SURFACE REMOVAL, 2½"
- PROPOSED COMBINATION CONCRETE CURB AND GUTTER (LOCATIONS TO BE DETERMINED BY THE RE IN THE FIELD)
- PROPOSED POLY. HMA BINDER COURSE, IL-4.75, N50, ¾"
- PROPOSED POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1¾"

- NOTES:
- THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING
 - LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLY. HMA BINDER COURSE, IL-4.75, N50.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ Ndes	
PAVEMENT RESURFACING		
POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70; 1 3/4"	4.0% @ 70 GYR.	QCP
POLY. HMA SURFACE BINDER COURSE, IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	QCP
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

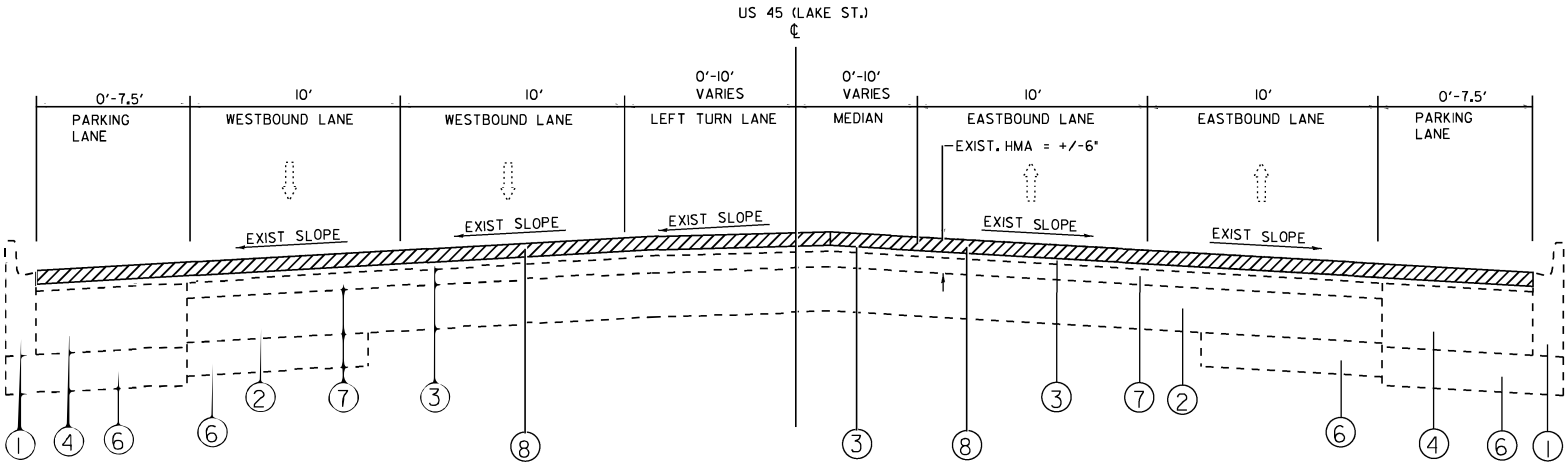
NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS.

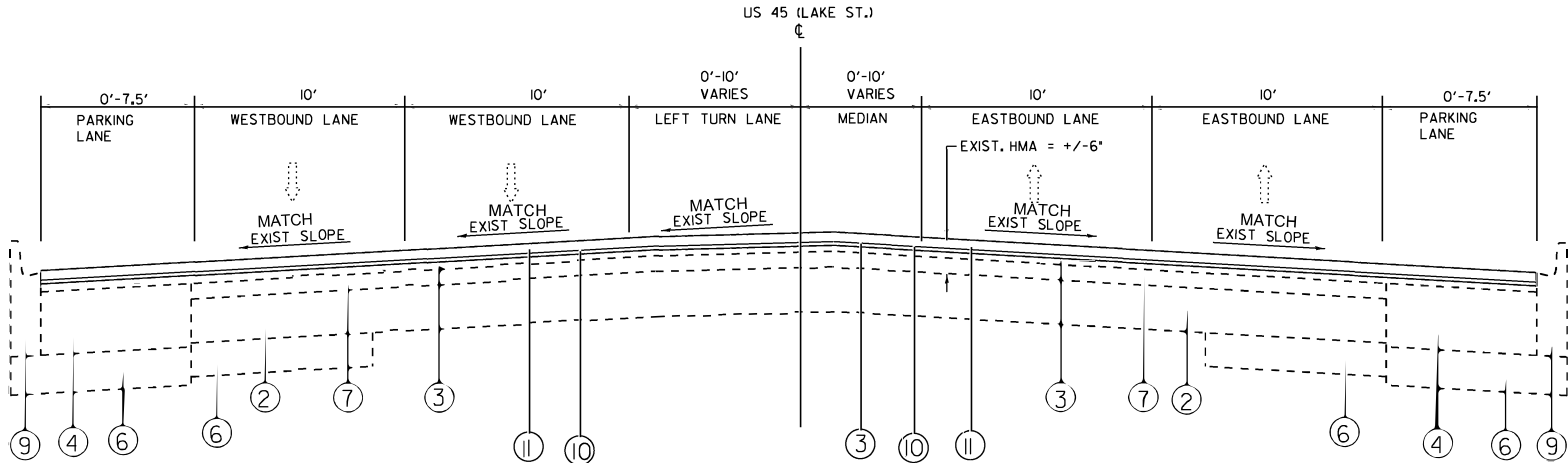
FILE NAME = p:\1\dot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 1\ORD Projects\US 45 (LAKE ST.) FROM ILL 176 (MAPLE AVE.) TO WOODLAWN DR. EXISTING & PROPOSED TYPICAL SECTIONS.dgn	USER NAME = yaseen.queeshi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 45 (LAKE ST.) FROM ILL 176 (MAPLE AVE.) TO WOODLAWN DR. EXISTING & PROPOSED TYPICAL SECTIONS	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.000' / 1"	CHECKED -	REVISED -					344	2025-2026-RS	LAKE	50	7
	PLOT DATE = 8/15/2025	DATE -	REVISED -					CONTRACT NO. 80B50				
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

- EXISTING COMBINATION CONCRETE CURB AND GUTTER
- EXISTING P.C. CONCRETE BASE COURSE, 9"
- EXISTING HMA SURFACE COURSE, 3" (BEFORE MILLING)
- EXISTING HMA BINDER COURSE, 10 1/4"
- EXISTING AGGREGRAE SUBGRADE
- EXISTING SUB-BASE, 4"
- EXISTING HMA PAVEMENT, 3" & VARIES
- PROPOSED HMA SURFACE REMOVAL, 2½"
- PROPOSED COMBINATION CONCRETE CURB AND GUTTER (LOCATIONS TO BE DETERMINED BY THE RE IN THE FIELD)
- PROPOSED POLY. HMA BINDER COURSE, IL-4.75, N50, ¾"
- PROPOSED POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1¾"



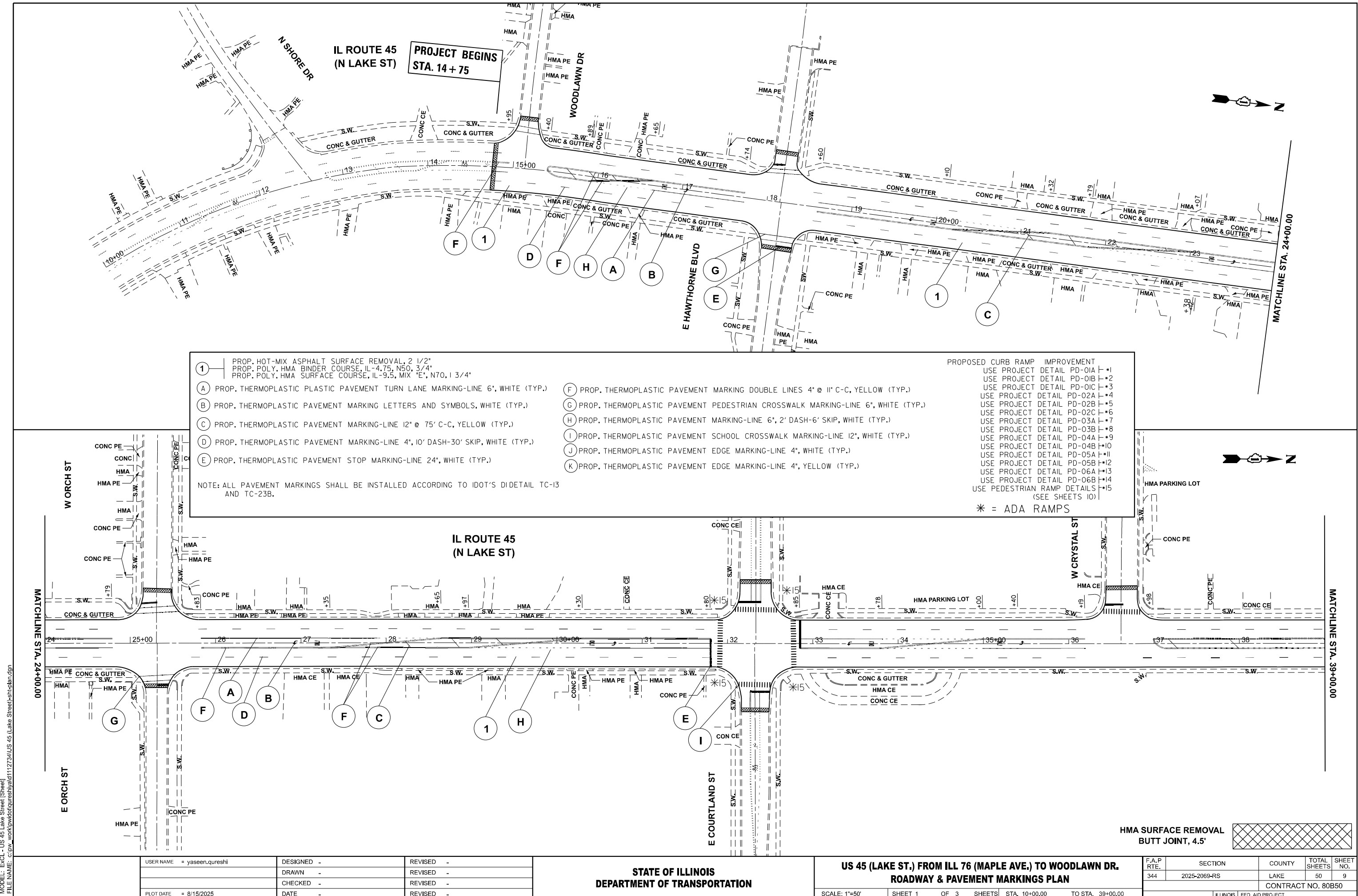
EXISTING TYPICAL SECTION
STA. 55+50 TO STA. 71+72



PROPOSED TYPICAL SECTION
STA. 55+50 TO STA. 71+72

FILE NAME =	USER NAME = yaseen.queeshi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 45 (LAKE ST.) FROM ILL 176 (MAPLE AVE.) TO WOODLAWN DR. EXISTING & PROPOSED TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\1dot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 1\ORD Projects\US 45	Drawn by: CADDData\CADsheets\US 45	REVISION	REVISION			344	2025-2026-RS	LAKE	50	8
PLOT SCALE = 100,000' / 1"	CHECKED -	REVISOR -	REVISOR -			CONTRACT NO. 80B50				
PLOT DATE = 8/15/2025	DATE -	REVISOR -	REVISOR -			SHEET NO. 2 OF 3 SHEETS STA. TO STA.				

MODEL: EXCL - US 45 Lake Street (Sheet)
FILE NAME: c:\p\work\illinois\qureshi\112734\US 45 (Lake Street)-shp-plan.dgn



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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 8/15/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 (LAKE ST.) FROM ILL 76 (MAPLE AVE.) TO WOODLAWN DR.
ROADWAY & PAVEMENT MARKINGS PLAN

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 10+00.00 TO STA. 39+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	9
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

MODEL: EXCL - US 45 Lake Street-2 (Sheet)
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MATCHLINE STA. 39+00.00

MATCHLINE STA. 54+00.00

MATCHLINE STA. 54+00.00

MATCHLINE STA. 69+00.00

IL ROUTE 45
(N LAKE ST)

IL ROUTE 45
(N LAKE ST)

- 1 PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"
PROP. POLY. HMA SURFACE COURSE, IL-9.5, MIX 'E', N70, 1 3/4"

A PROP. THERMOPLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)

B PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

C PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, YELLOW (TYP.)

D PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)

E PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)

NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1DETAIL TC-13 AND TC-23B.
- F PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

G PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)

H PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)

I PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)

J PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)

K PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)

L PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, WHITE (TYP.)
- PROPOSED CURB RAMP IMPROVEMENT

USE PROJECT DETAIL PD-01A 1

USE PROJECT DETAIL PD-01B 2

USE PROJECT DETAIL PD-01C 3

USE PROJECT DETAIL PD-02A 4

USE PROJECT DETAIL PD-02B 5

USE PROJECT DETAIL PD-02C 6

USE PROJECT DETAIL PD-03A 7

USE PROJECT DETAIL PD-03B 8

USE PROJECT DETAIL PD-04A 9

USE PROJECT DETAIL PD-04B 10

USE PROJECT DETAIL PD-05A 11

USE PROJECT DETAIL PD-05B 12

USE PROJECT DETAIL PD-06A 13

USE PROJECT DETAIL PD-06B 14

USE PEDESTRIAN RAMP DETAILS 15
(SEE SHEETS 10)

* = ADA RAMPS

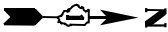
USER NAME = yaseen.qureshi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -
PLOT DATE = 9/26/2025		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 (LAKE ST.) FROM ILL 76 (MAPLE AVE.) TO WOODLAWN DR.
ROADWAY & PAVEMENT MARKINGS PLAN

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 39+00.00 TO STA. 69+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	10
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				



- 1

PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"
PROP. POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- A

PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- B

PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
- C

PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, YELLOW (TYP.)
- D

PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)
- E

PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)
- F

PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)
- G

PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)
- H

PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)
- I

PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)
- J

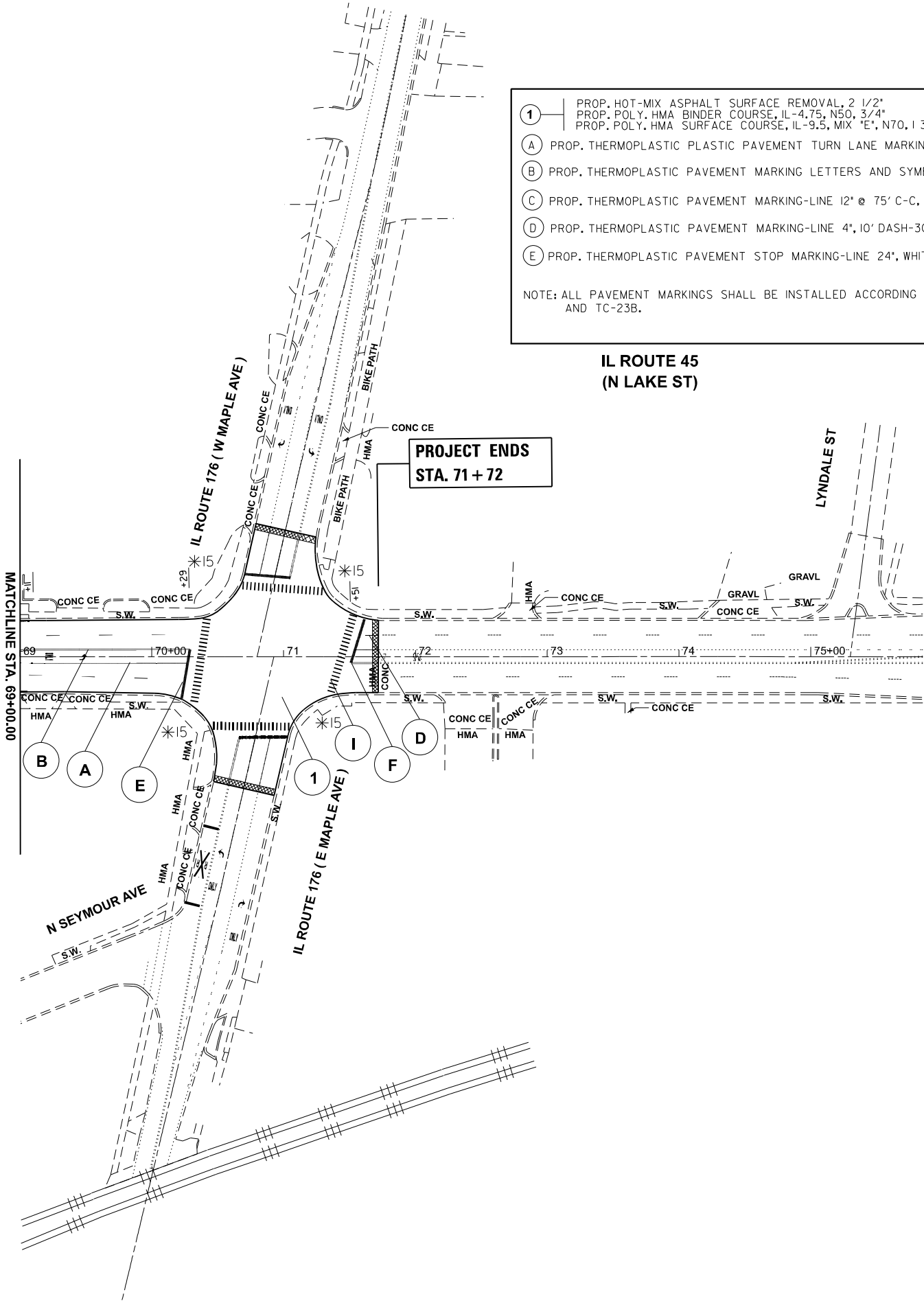
PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)
- K

PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)
- PROPOSED CURB RAMP IMPROVEMENT

USE PROJECT DETAIL PD-01A 1-1
USE PROJECT DETAIL PD-01B 1-2
USE PROJECT DETAIL PD-01C 1-3
USE PROJECT DETAIL PD-02A 1-4
USE PROJECT DETAIL PD-02B 1-5
USE PROJECT DETAIL PD-02C 1-6
USE PROJECT DETAIL PD-03A 1-7
USE PROJECT DETAIL PD-03B 1-8
USE PROJECT DETAIL PD-04A 1-9
USE PROJECT DETAIL PD-04B 1-10
USE PROJECT DETAIL PD-05A 1-11
USE PROJECT DETAIL PD-05B 1-12
USE PROJECT DETAIL PD-06A 1-13
USE PROJECT DETAIL PD-06B 1-14
USE PEDESTRIAN RAMP DETAILS 1-15
(SEE SHEETS 10)

* = ADA RAMPS
- NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S DETAIL TC-13
AND TC-23B.

IL ROUTE 45
(N LAKE ST)



MODEL: EXCL - Plan 1 (Sheet)
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		DRAWN -	REVISED -
		CHECKED -	REVISED -
	PLOT DATE = 8/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 45 (LAKE ST.) FROM ILL 76 (MAPLE AVE.) TO WOODLAWN DR.
ROADWAY & PAVEMENT MARKINGS PLAN

SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. 69+00.00 TO STA. 75+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	11
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

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	DRAWN - SKP	REVISED -
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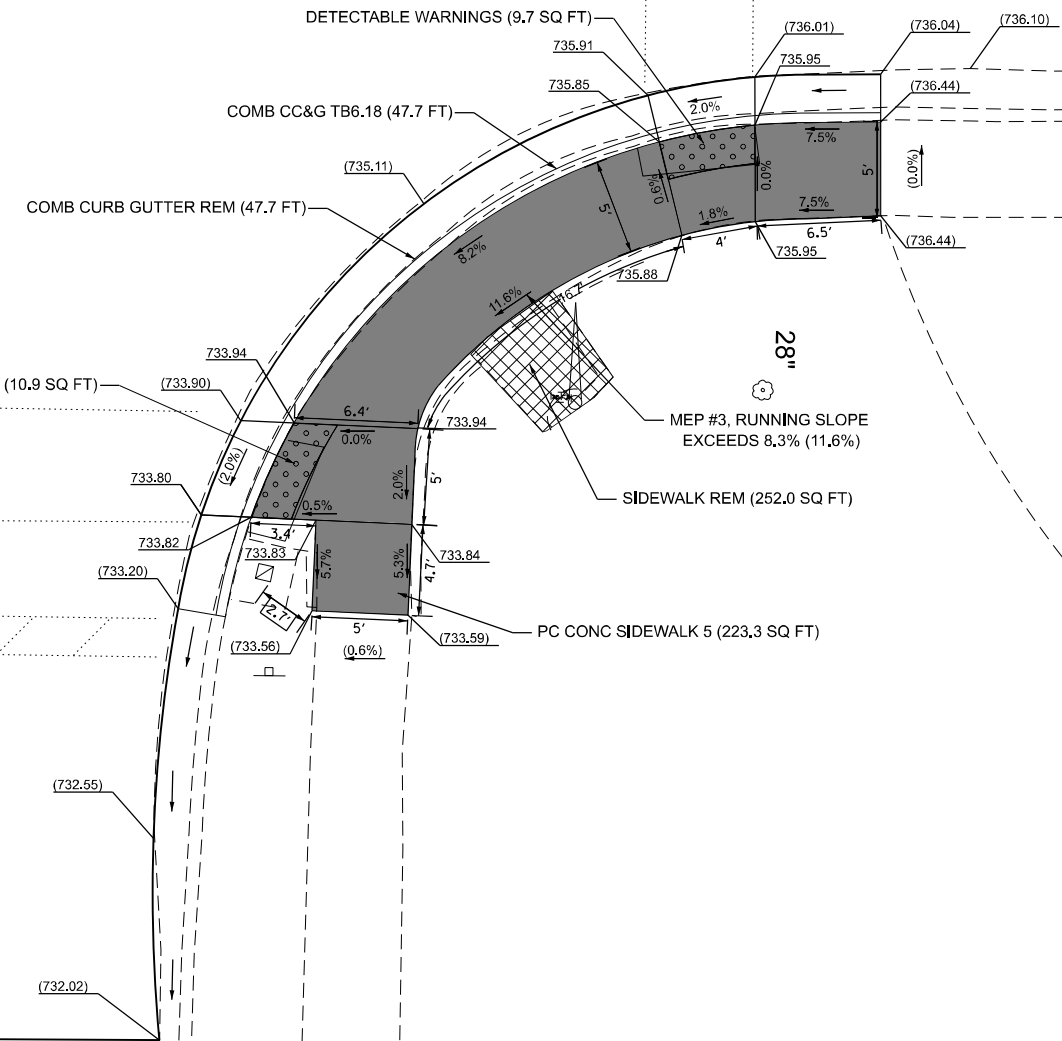
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN SCHEDULE			
SCALE:	SHEET NO. OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	12
CONTRACT NO. 80B50				
FED. ROAD DIST. NO. I ILLINOIS FED. AID PROJECT				

\$FILE\$

SCHEDULE OF QUANTITIES													
LOCATION			42001300	42400200	42400800	44000155	44000600	60266600	60260100	89502376	X0327611	44000500	60604400
SHEET NO.	IL RTE 45 (LAKE ST) AT	CORNER	PROTECTIVE COAT	PC CONC SIDEWALK 5	DETECTABLE WARNINGS	HMA SURF REM 1 1/2	SIDEWALK REM	VALVE BOX ADJ	INLETS TO BE ADJUSTED	REBUILD EXISTING HANDHOLE	REM & REIN BRIC PAVER	COMBINATION CURB AND GUTTER REMOVAL	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
			SQ YD	SQ FT	SQ FT	SQ YD	SQ FT	EACH	EACH	EACH	SQ FT	FOOT	FOOT
ADA-01	COURTLAND ST	SW	46.7	420.6	43.2		386.3		1.0			36.7	36.7
ADA-02	COURTLAND ST	NW	53.7	483.2	49.4		417.9				23.8	36.6	36.6
ADA-02	COURTLAND ST	SE	27.9	250.8	19.0		250.8					41.9	41.9
ADA-02	COURTLAND ST	NE	24.8	223.3	20.6		252.0					47.7	47.7
ADA-03	DIVSION ST	SW	28.2	253.8	20.0		257.6					57.1	57.1
ADA-03	DIVSION ST	NW	27.3	245.6	20.0		258.9					41.6	41.6
ADA-04	DIVSION ST	SE	38.7	348.4	33.2		348.4					70.0	70.0
ADA-04	DIVSION ST	NE	31.0	278.7	18.8		278.7	1.0	1.0	1.0		64.6	64.6
ADA-05	HAWLEY ST	SW	25.7	231.1	22.5		231.1	1.0				43.7	43.7
ADA-05	HAWLEY ST	NW	42.8	384.9	20.0		384.9				26.6	58.0	58.0
ADA-06	HAWLEY ST	SE	67.6	608.7	43.7		608.7				70.0	59.6	59.6
ADA-06	HAWLEY ST	NE	18.4	165.6	24.1		165.6		3.0		22.2	36.5	36.5
ADA-07	IL RTE 176 (MAPLE AVE)	SW	43.8	394.6	19.7		394.6	1.0		1.0		60.7	60.7
ADA-07	IL RTE 176 (MAPLE AVE)	NW	43.6	392.1	21.7		401.9					60.8	60.8
ADA-08	IL RTE 176 (MAPLE AVE)	SE	45.4	408.9	19.5	11.0	408.9					36.6	36.6
ADA-08	IL RTE 176 (MAPLE AVE)	NE	35.0	314.9	18.9	8.0	314.9	1.0				54.0	54.0
TOTAL			600.6	5405.1	414.3	19.0	5361.1	4.0	5.0	2.0	142.7	806.1	806.1



HMA



ADA-02

11



LOCATION :

LOCATION :



USER NAME	= jpham	DESIGNED	= JP	REVISED	=
		DRAWN	= SKP	REVISED	=
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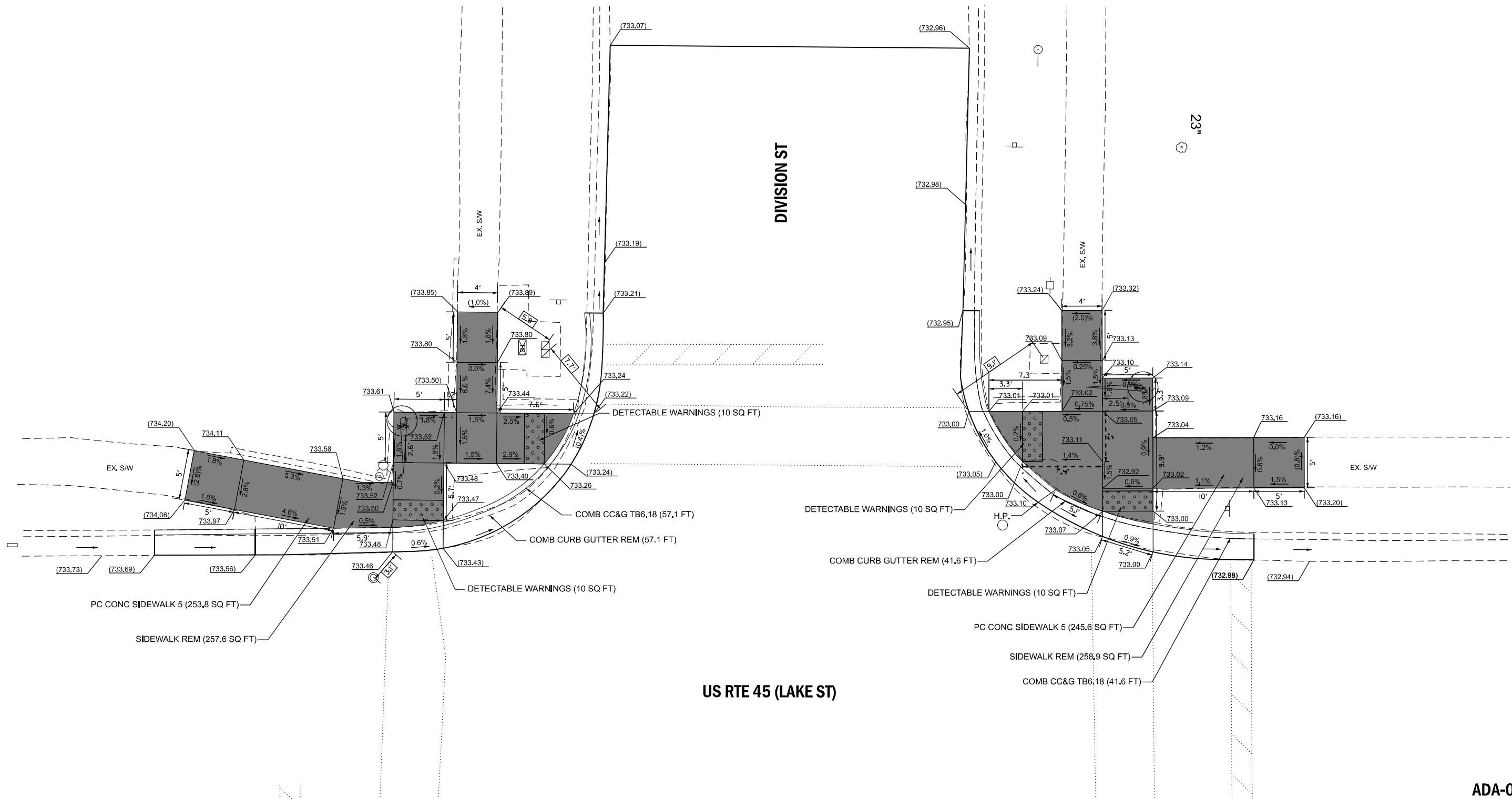
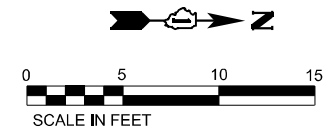
SIDEWALK DETAIL PLAN
RT 45 AT COURTLAND STREET

SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	14
		CONTRACT NO. 80B50		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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USER NAME = $USERNAMES$
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ADA-03

REFERENCE BENCHMARK ELEV:

BENCHMARK :

LOCATION :

LEGEND

xx.xx'

EXISTING LENGTH

=====

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV:

BENCHMARK :

LOCATION :

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN

SCALE: SHEET NO. OF SHEETS STA. TO STA.

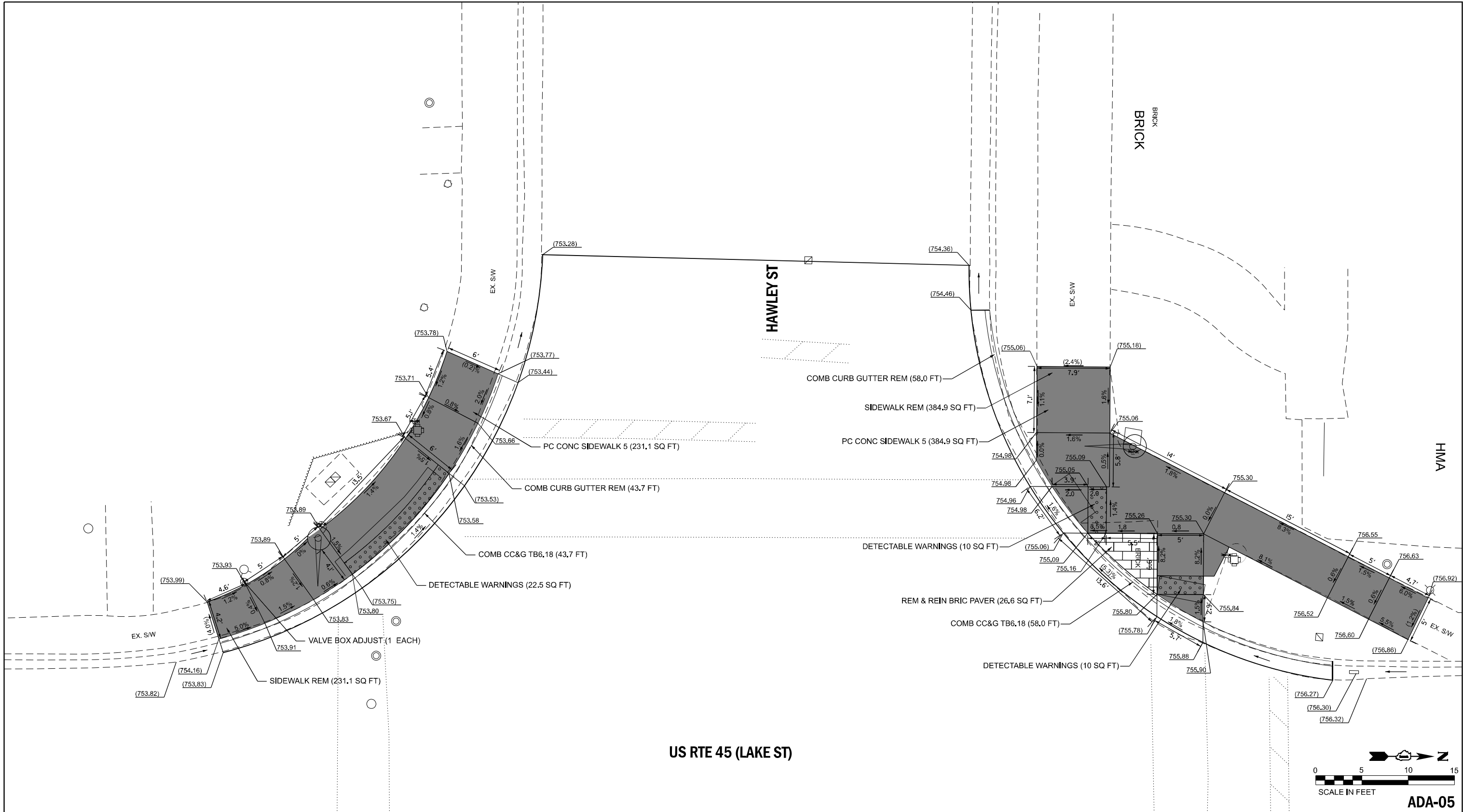
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	15
CONTRACT NO. 80B50				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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	DRAWN - SKP	REVISED -
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PLOT DATE = 8/5/2025	DATE - 8/5/2025	REVISED -

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PLOT SCALE = \$SCALE\$
USER NAME = \$USERNAME\$

\$FILE\$



REFERENCE BENCHMARK ELEV:
BENCHMARK :
LOCATION :

LEGEND

xx.xx'

EXISTING LENGTH

=====

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE

PROPOSED SIDEWALK

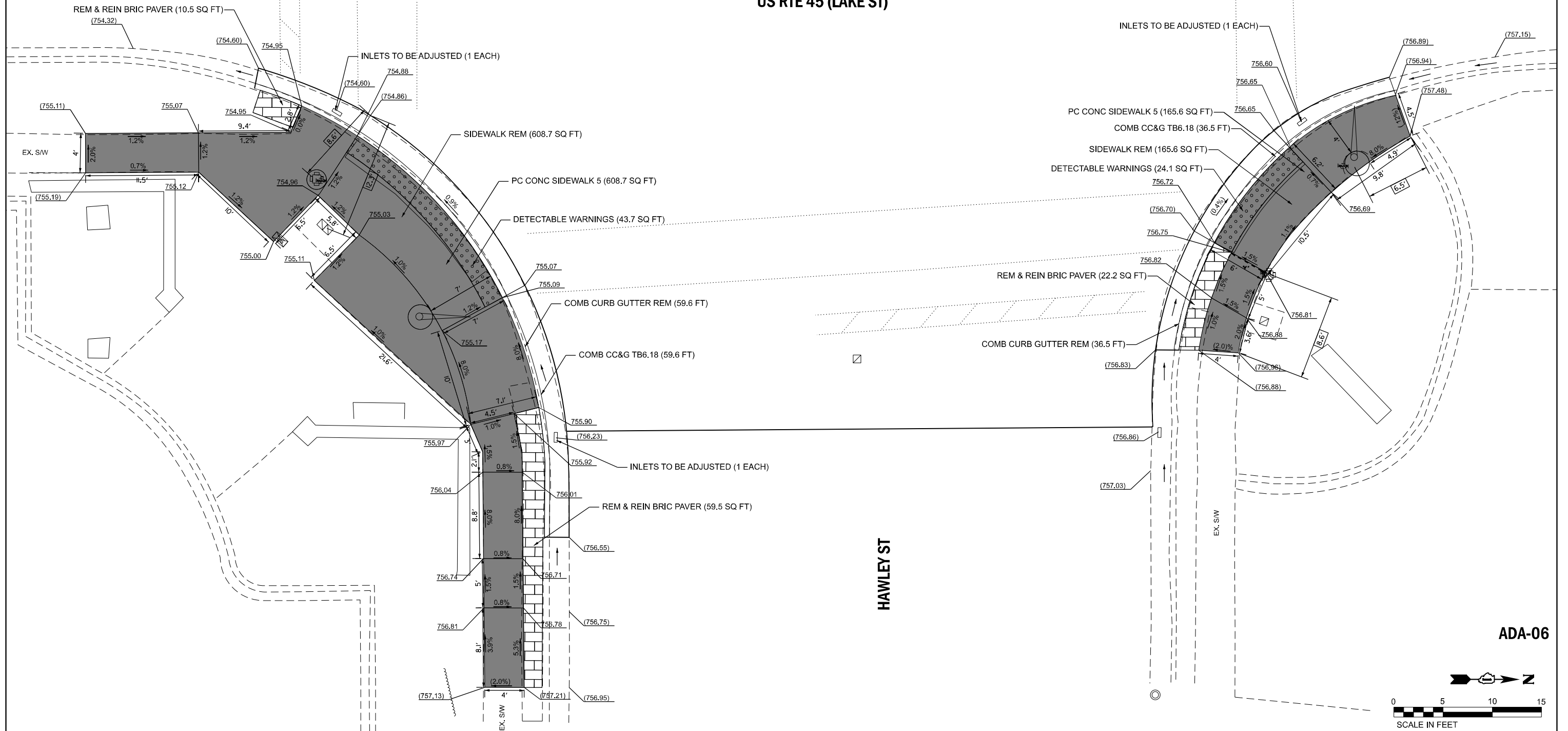
DETECTABLE WARNINGS

SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV:
BENCHMARK :
LOCATION :

 MILLENNIA PROFESSIONAL SERVICES www.millennia.pro	USER NAME = jpham	DESIGNED = JP	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIDEWALK DETAIL PLAN				F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN = SKP	REVISED =						344	2025-2069-RS		LAKE	50	17		
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															\$FILE\$	

US RTE 45 (LAKE ST)



ADA-06

LEGEND

$$\boxed{xx.xx'}$$

EXISTING LENGT

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV:

BENCHMARK :

LOCATION :

REFERENCE BENCHMARK ELEV:

BENCHMARK :

LOCATION :



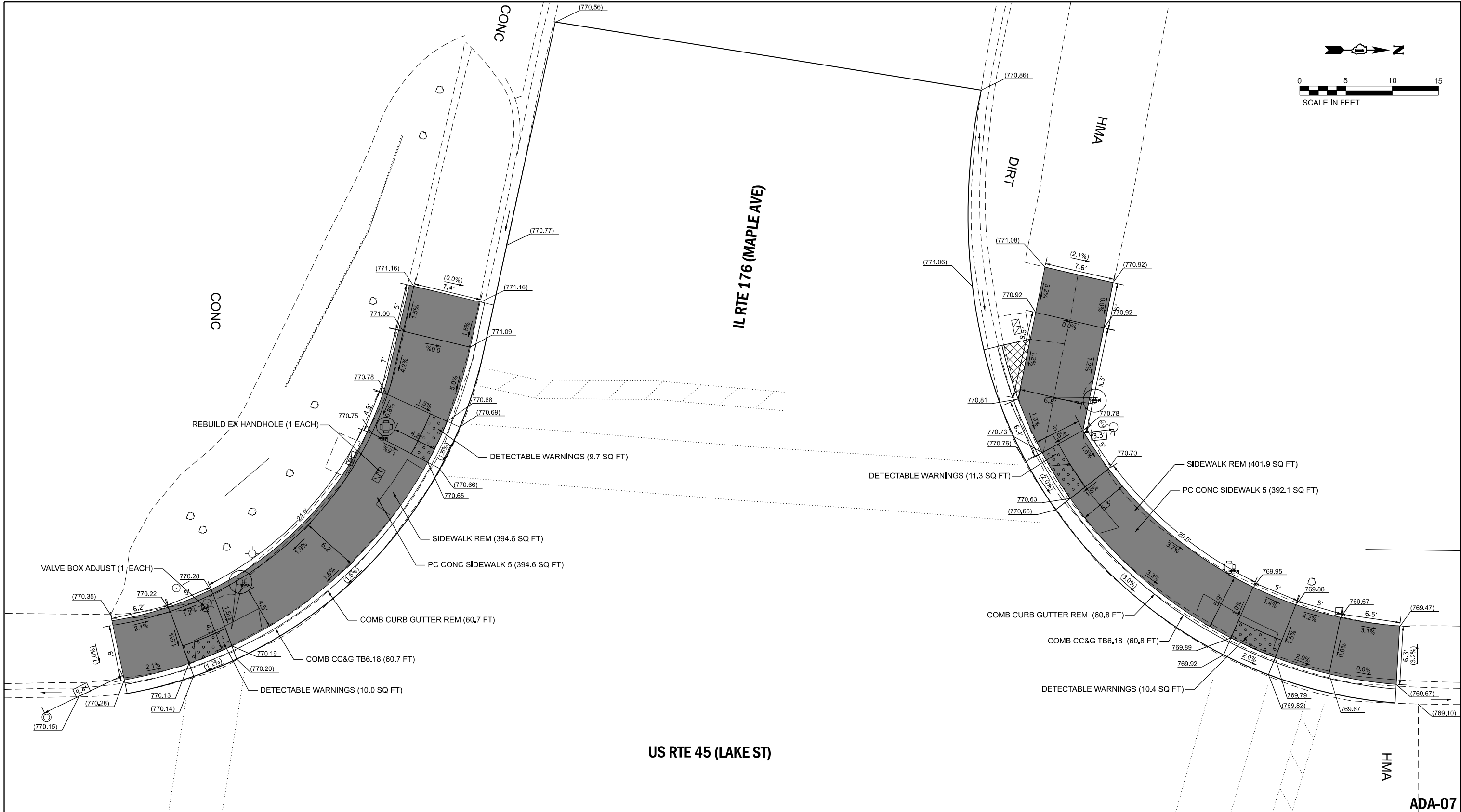
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PLOT DATE = 10/2/2025	DATE = 10/2/2025	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIDEWALK DETAIL PLAN

SCALE:			SHEET NO. OF SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1			ILLINOIS		FED. AID PROJECT	
--------	--	--	---------------------	--	--------------	--	-----------------------	--	--	----------	--	------------------	--

LE\$



REFERENCE BENCHMARK ELEV:
BENCHMARK :
LOCATION :

LEGEND

xx.xx'

EXISTING LENGTH

=====

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV:
BENCHMARK :
LOCATION :

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN

IL RTE 45 AT MAPLE AVE

F.A.P. RTE. 344

SECTION 2025-2069-RS

COUNTY LAKE

TOTAL SHEETS 50

SHEET NO. 19

CONTRACT NO. 80B50

FED. ROAD DIST. NO. I

ILLINOIS

FED. AID PROJECT

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MILLENNIA

PROFESSIONAL SERVICES

www.millennia.pro

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DATE - 8/5/2025

REVISED -
REVISED -
REVISED -
REVISED -

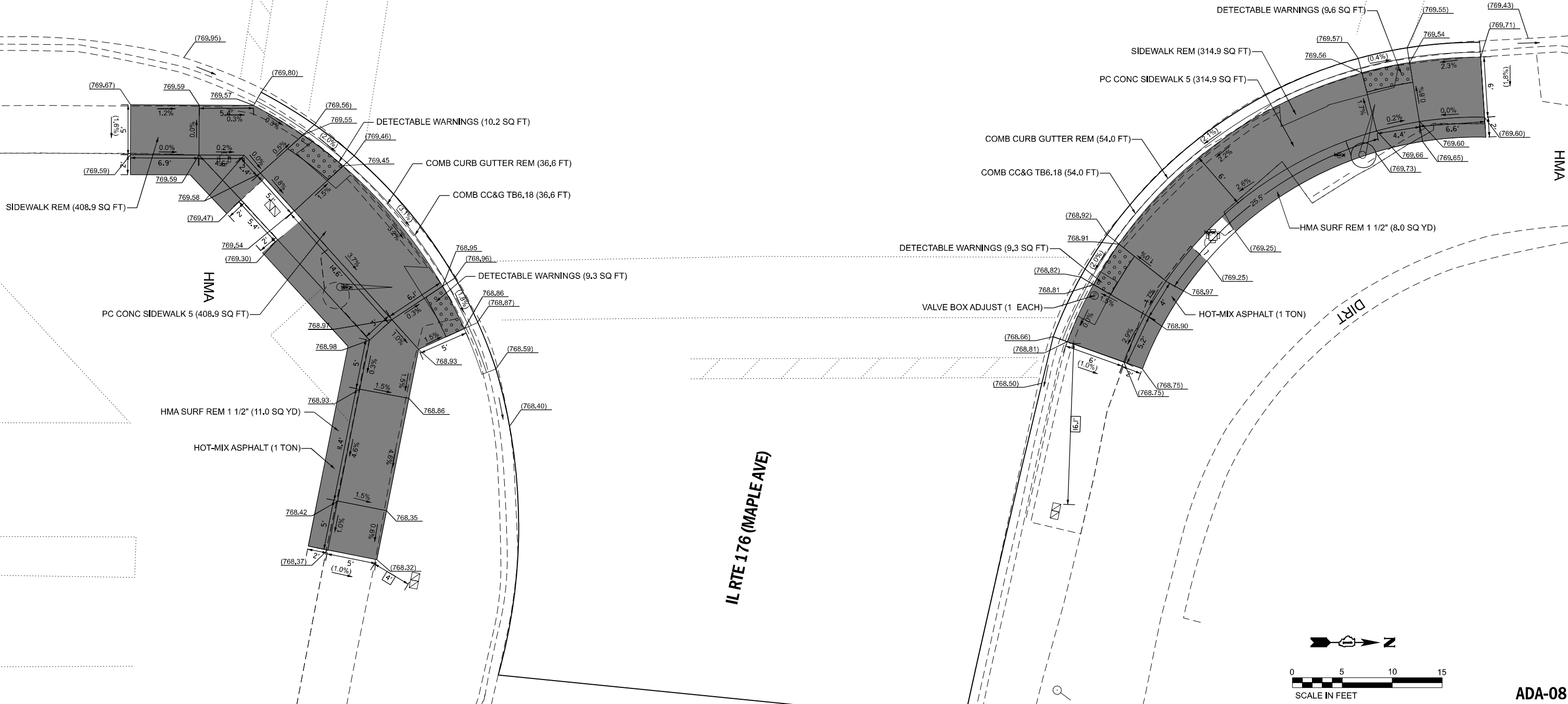
SCALE:

SHEET NO. OF SHEETS

STA. TO STA.

\$FILE\$

US RTE 45 (LAKE ST)



ADA-08

REFERENCE BENCHMARK ELEV:

BENCHMARK :

LOCATION :

LEGEND

xx.xx'

EXISTING LENGTH

=====

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV:

BENCHMARK :

LOCATION :

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
IL RTE 45 AT MAPLE AVE

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	20
CONTRACT NO. 80B50				
FED. ROAD DIST. NO. I	ILLINOIS	FED. AID PROJECT		

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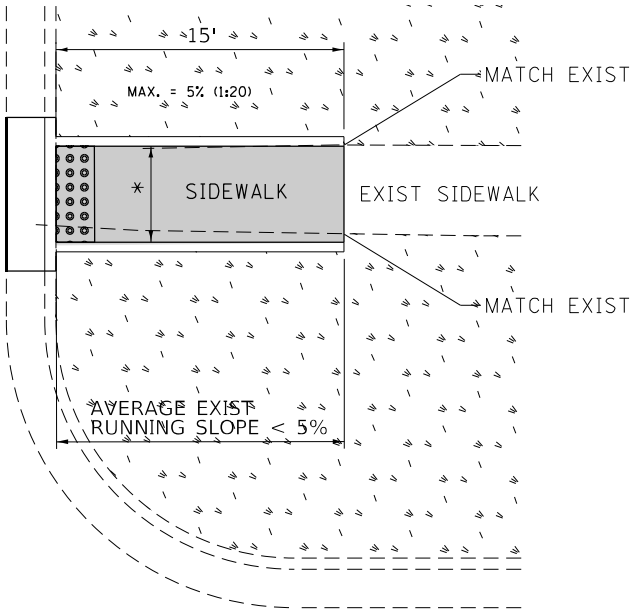


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		DRAWN	- SKP	REVISED	-
PLOT SCALE	= \$SCALE\$	CHECKED	- TN	REVISED	-
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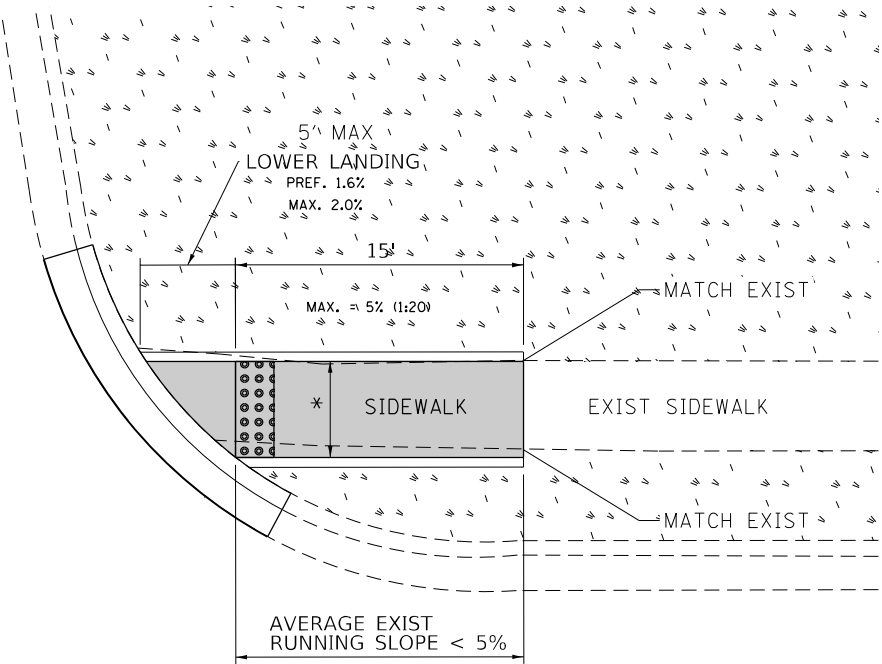
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ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR LESS RUN. SLOPE

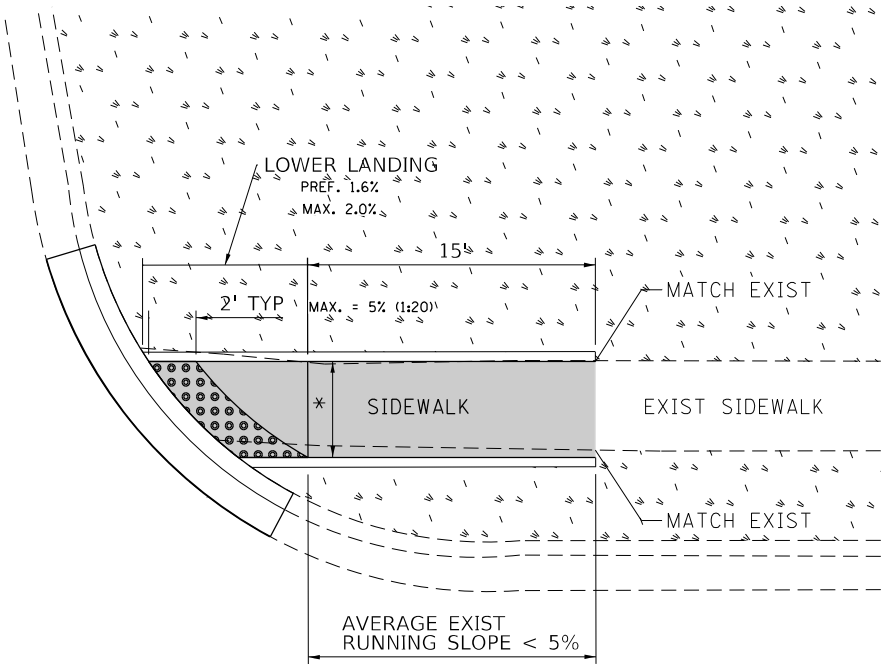
PD-01A



PD-01B



PD-01C



DESIGNER NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND

	EXIST. GRASS
	PROPOSED SIDE CURB
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS

CONSTRUCTION NOTES:

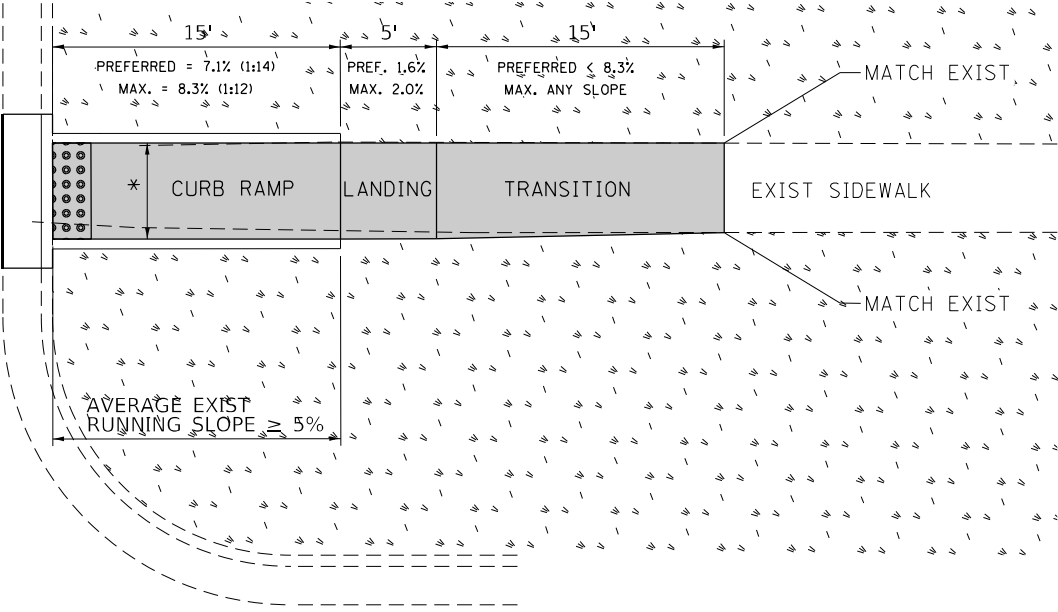
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK

* MATCH EXISTING SIDEWALK WIDTH

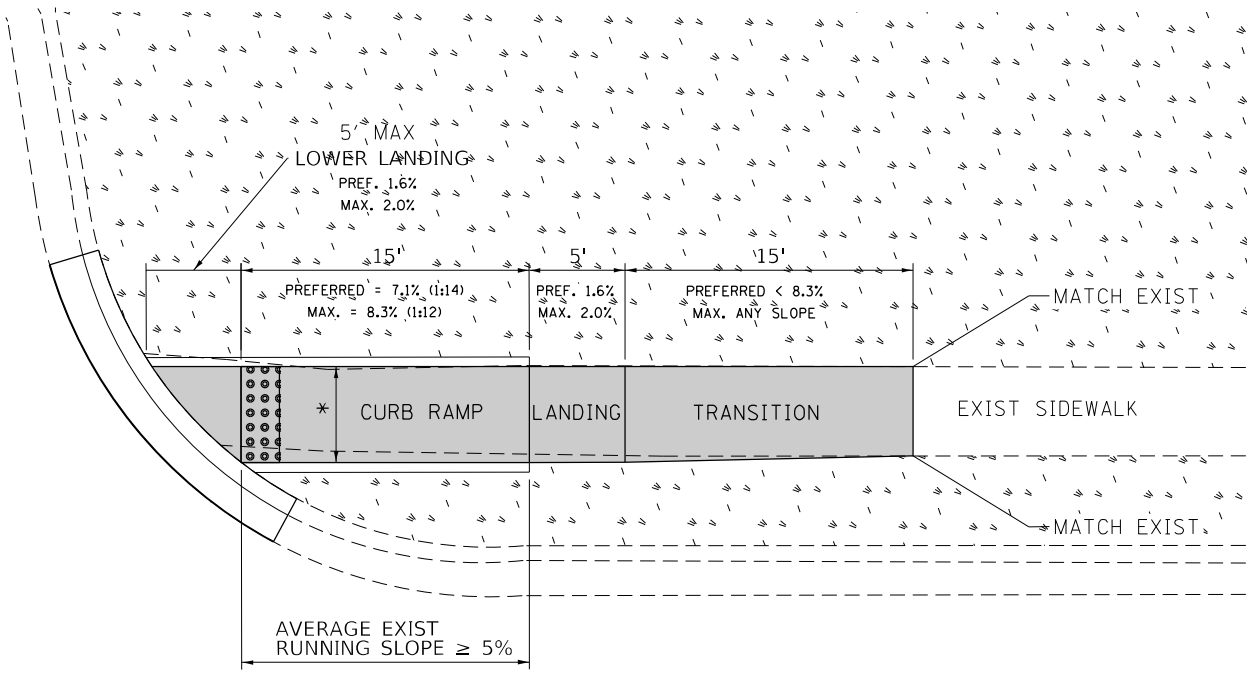
FILE NAME =	USER NAME = ldezmm	DESIGNED -	--- --/--/----	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS (PD-01)				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\WP\PLANPREP\SQUAD\1\Des_RL\Typical ADA details\Typical-ADA-shit-plan.dgn		DRAWN -	RL 11/12/2019	REVISED -							344	2025-2069-RS	LAKE	50	21
Default		PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -							PD-01 CONTRACT NO. 80B50				
		PLOT DATE = 11/12/2019	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR GREATER RUN. SLOPE

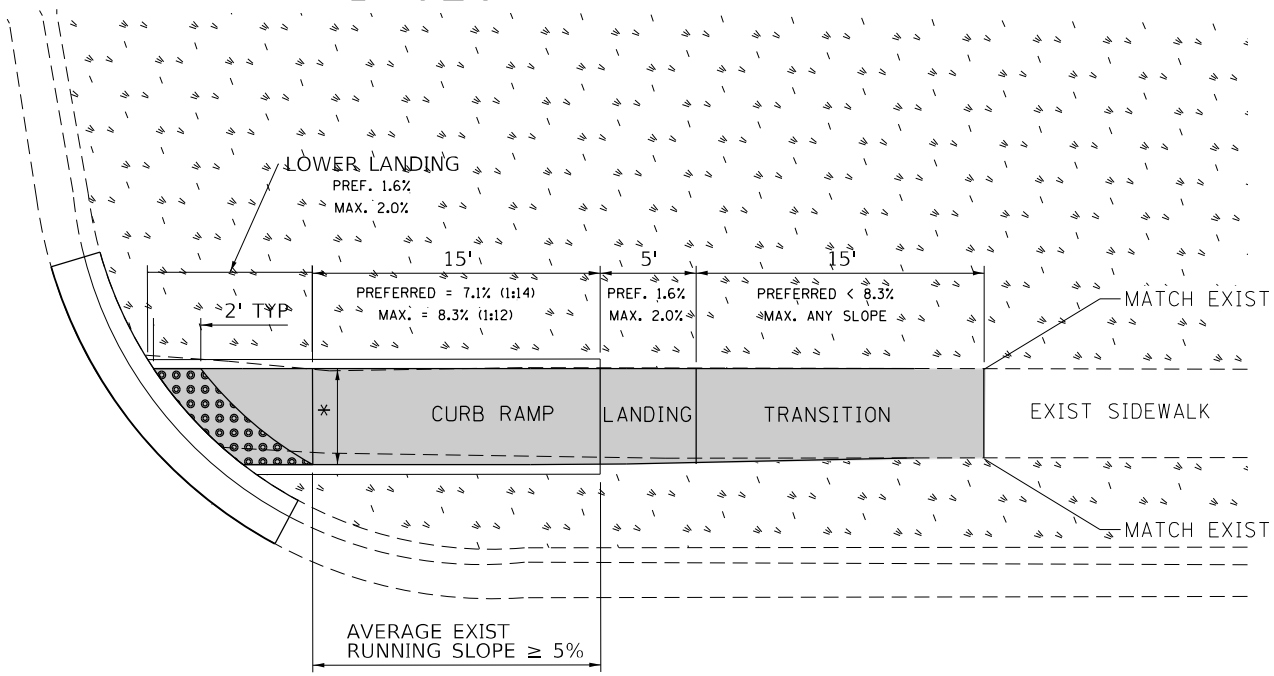
PD-02A



PD-02B



PD-02C



DESIGNER NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND

PROPOSED SIDE CURB



EXIST. GRASS



PROPOSED SIDEWALK



DETECTABLE WARNINGS

CONSTRUCTION NOTES:

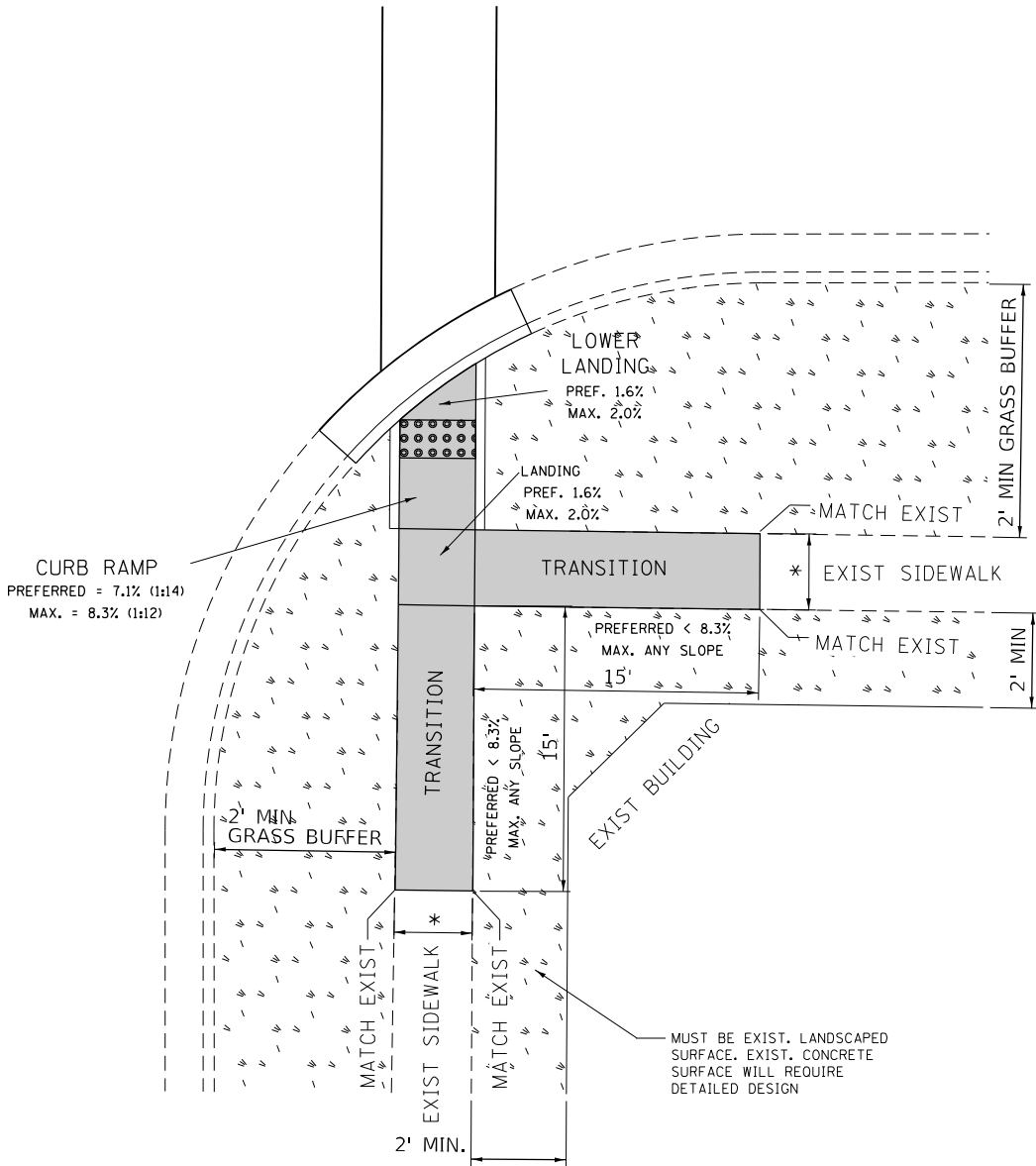
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK

* MATCH EXISTING SIDEWALK WIDTH

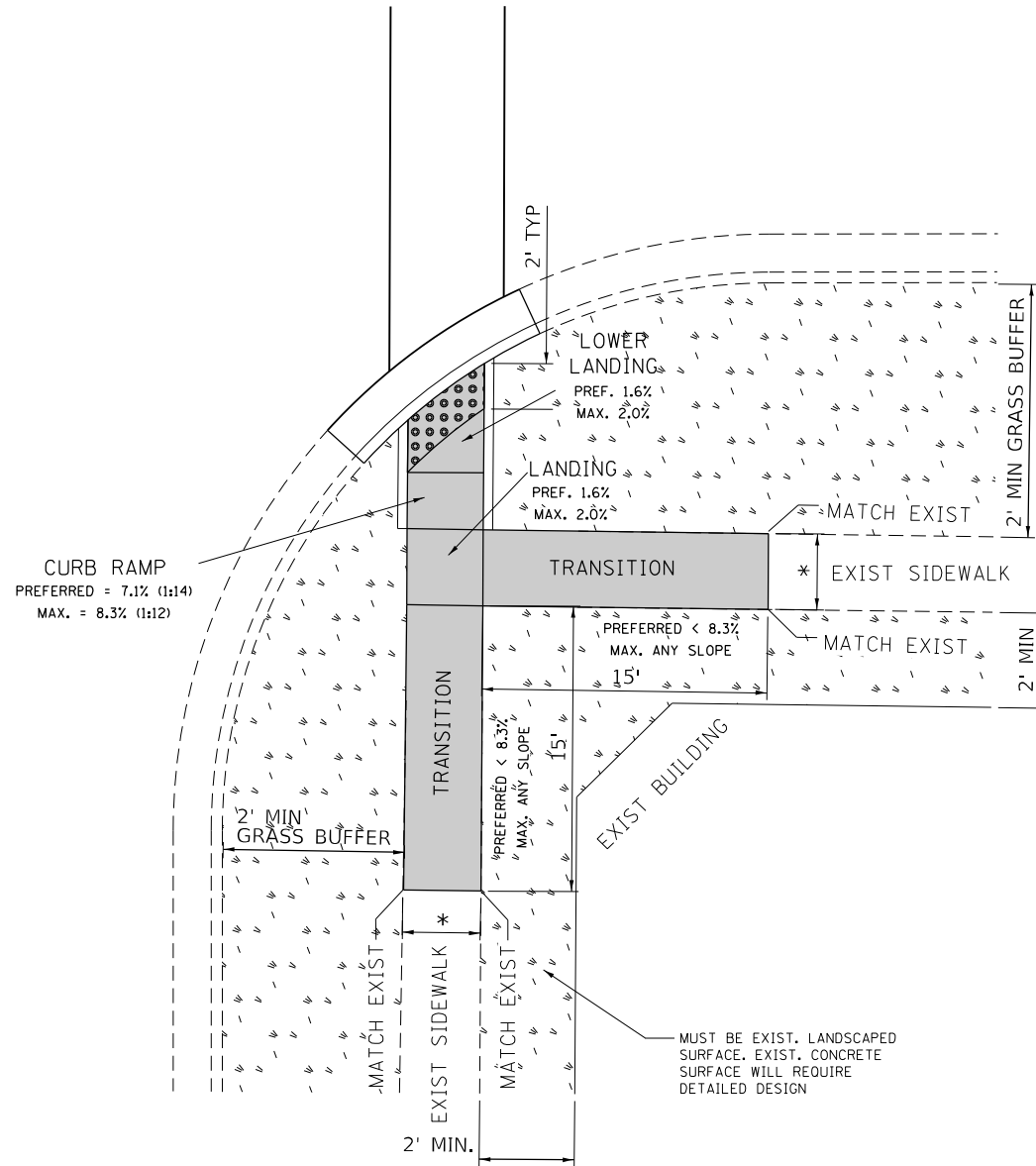
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S:\WP\PLANPREP\SQUAD_1\Des_RL\Typical ADA details\Typical-ADA-shit-plan.dgn		DRAWN - RL 11/12/2019	REVISED -						344	2025-2069-RS	LAKE	50	22		
		CHECKED -	REVISED -						PD-02					CONTRACT NO. 80B50	
Default		PLOT DATE = 11/12/2019	REVISED -											ILLINOIS FED. AID PROJECT	
									SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ TURNING SPACE

PD-04A



PD-04B



DESIGNER NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND

PROPOSED SIDE CURB



EXIST. GRASS



PROPOSED SIDEWALK



DETECTABLE WARNINGS

CONSTRUCTION NOTES:

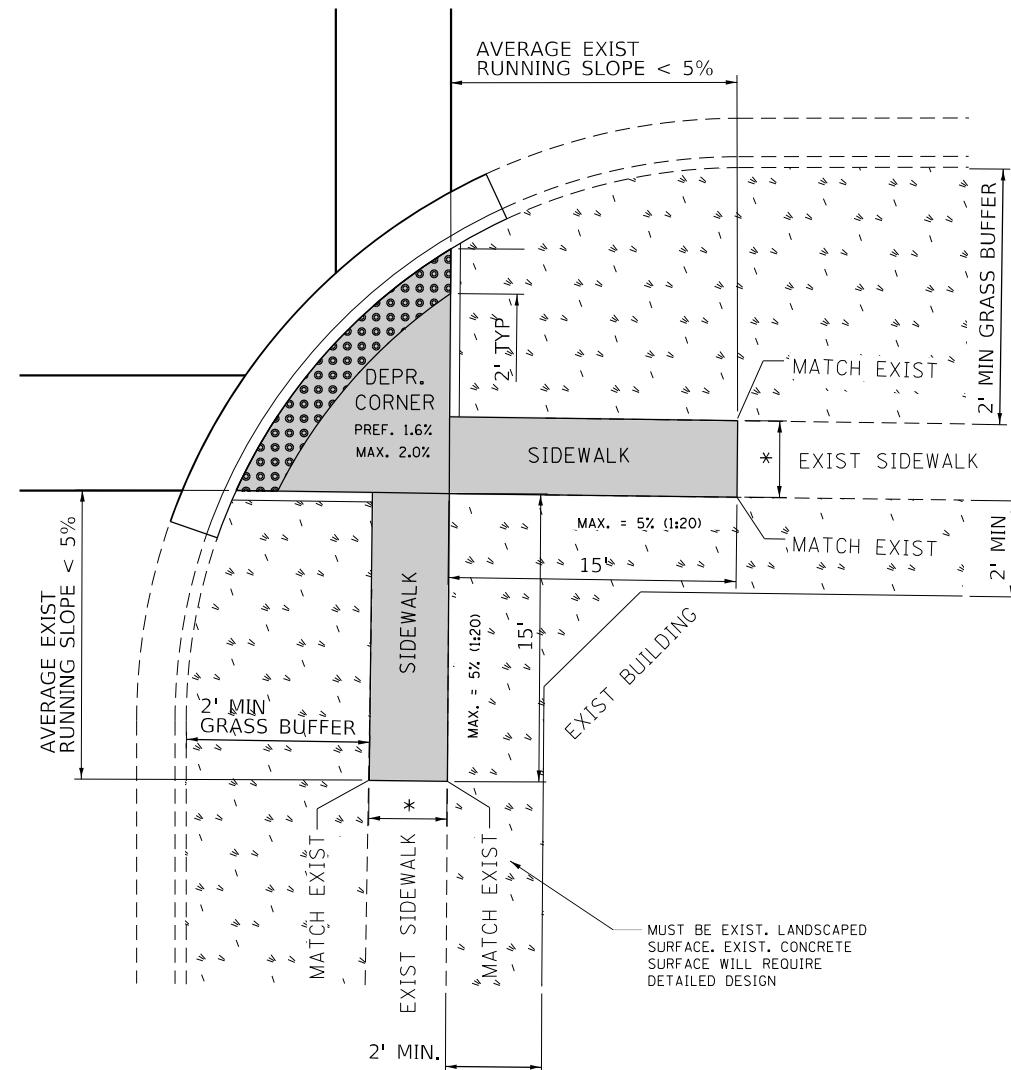
- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK

* MATCH EXISTING SIDEWALK WIDTH

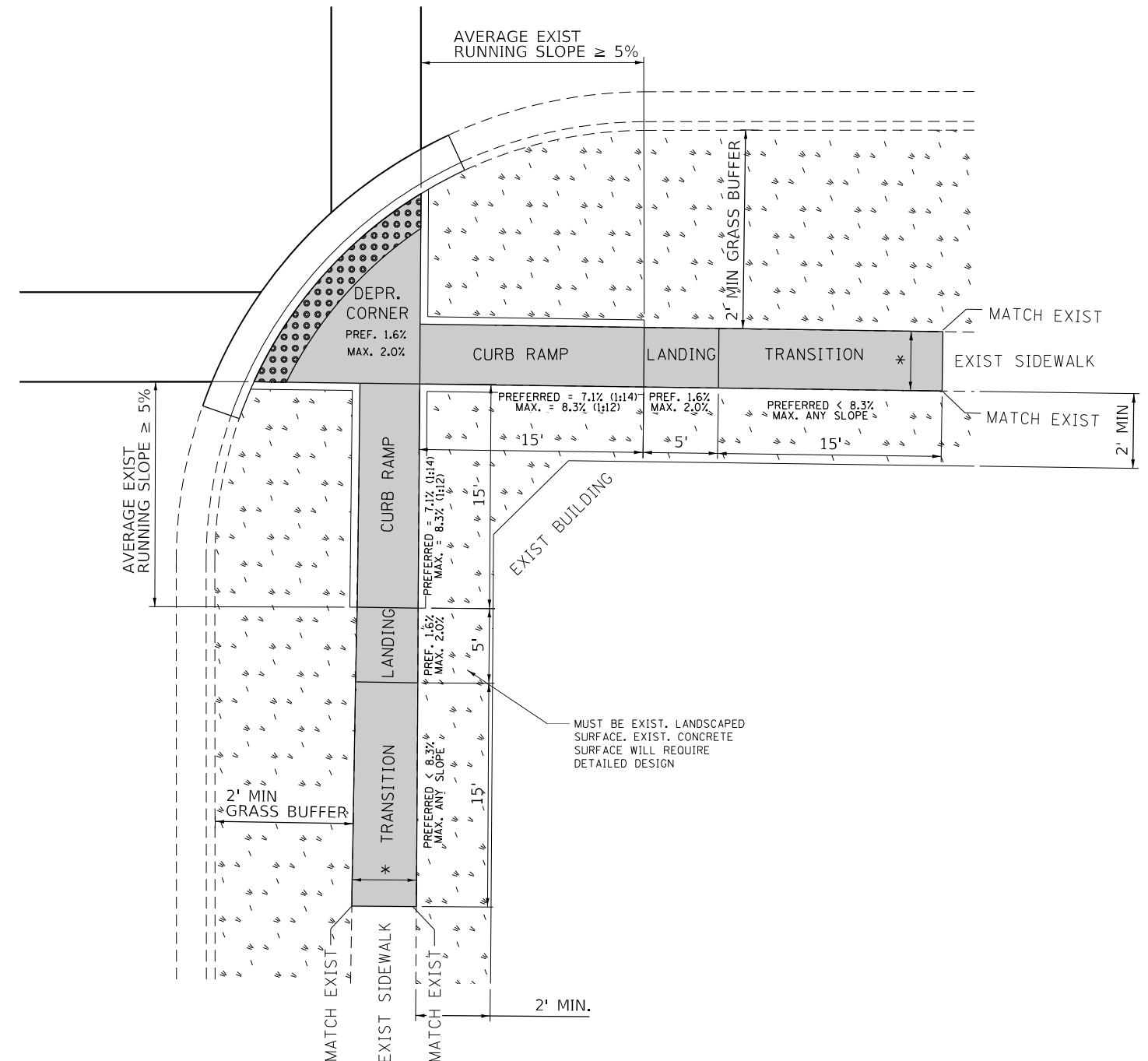
FILE NAME :	USER NAME : ldezma	DESIGNED -	--- --/--/----	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/TURNING SPACE (PD-04)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\WP\PLANPREP\SQUAD\1\Des_RL\Typical ADA details\Typical-ADA-shr-plan.dgn		DRAWN -	RL 11/12/2019	REVISED -						344	2025-2069-RS	LAKE	50	24
Default		PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				
		PLOT DATE = 11/12/2019	DATE -	REVISED -						CONTRACT NO. 80B50				

ADA DETAIL FOR DEPRESSED CORNER CURB RAMPS

PD-05A



PD-05B



DESIGNER NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND



PROPOSED SIDE CURB



EXIST. GRASS



PROPOSED SIDEWALK



DETECTABLE WARNINGS

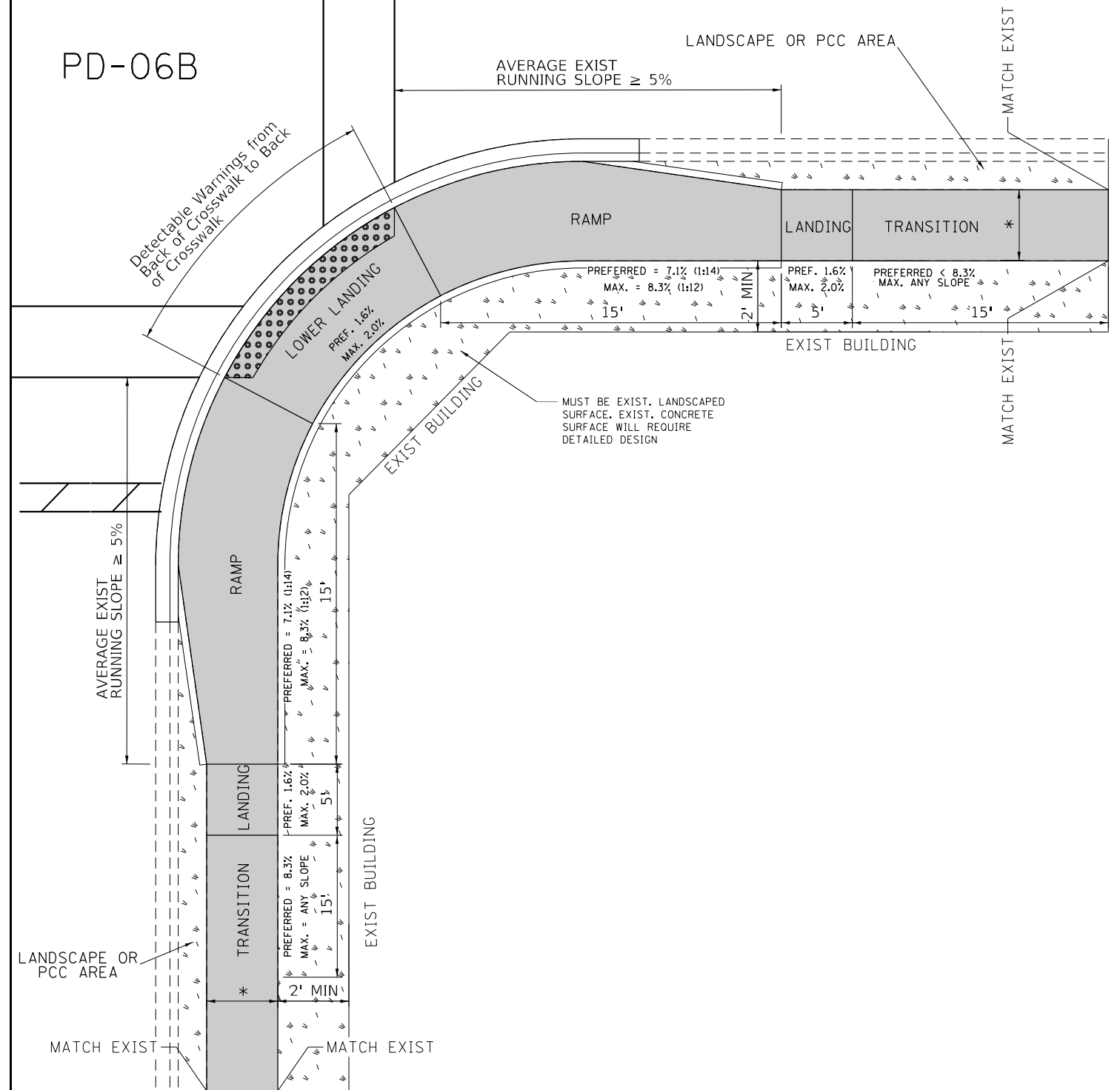
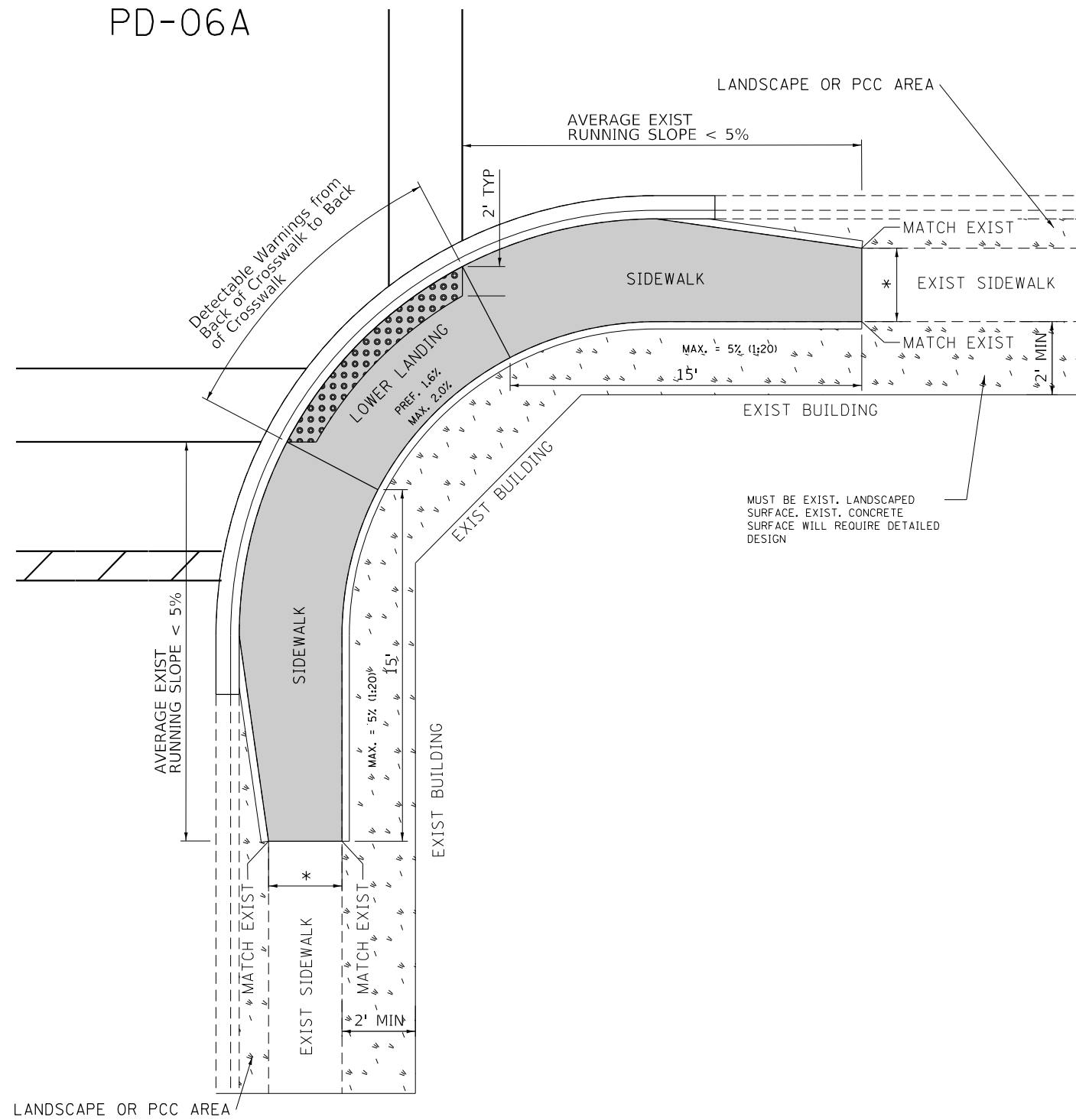
CONSTRUCTION NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN
TRANSITIONING TO EXISTING SIDEWALK

* MATCH EXISTING SIDEWALK WIDTH

FILE NAME =	USER NAME = ledezerm	DESIGNED -	---	--/--/----	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										PROJECT DETAIL FOR DEPRESSED CORNER CURB RAMPS					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
S:\WP\PLAN\PREP\SQUAD_1\Des_RL\Typical ADA details\Typical-ADA-shr.plandgn		DRAWN -	RL	11/12/2019	REVISED -											PD-05				PD-05				344	2025-2069-RS	LAKE	50	25
Default		PLOT SCALE = 10.0000' / in.	CHECKED -		REVISED -															SCALE:				SHEET	OF	SHEETS	STA.	TO STA.
		PLOT DATE = 11/12/2019	DATE -	11/12/2019	REVISED -									CONTRACT NO. 80B50														

ADA DETAIL FOR PARALLEL CURB RAMPS ADJACENT TO LANDSCAPING



DESIGNER NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

LEGEND



PROPOSED SIDE CURB



EXIST. GRASS



PROPOSED SIDEWALK



DETECTABLE WARNINGS

CONSTRUCTION NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN
TRANSITIONING TO EXISTING SIDEWALK

* MATCH EXISTING SIDEWALK WIDTH

FILE NAME =	USER NAME = ledezerm	DESIGNED -	--- --/--/----	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROJECT DETAIL FOR PARALLEL CURB RAMPS (PD-06)					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\WP\PLANPREP\SQUAD\INDes\RL\Typical ADA details\Typical-ADA-shr-plan.dgn	DRAWN - RL	11/12/2019	REVISED -	344							2025-2069-RS	LAKE	50	26		
	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -													
Default	PLOT DATE = 11/12/2019	DATE -	REVISED -													
						SCALE:	SHEET	OF	SHEETS	STA.	TO STA.					
											ILLINOIS FED. AID PROJECT				CONTRACT NO. 80B50	

MODEL: D:\XXXXXX\shl-TS14372 Plan [Sheet]
FILE NAME: P:\2019ME\0003_VanVar_PhilWO47_US 45_Lake St ADA Ramp Design Improvement\01-CADD\02-Shts\01-XXXXXX-shl-TS14372-US45 at Courtland St.dgn



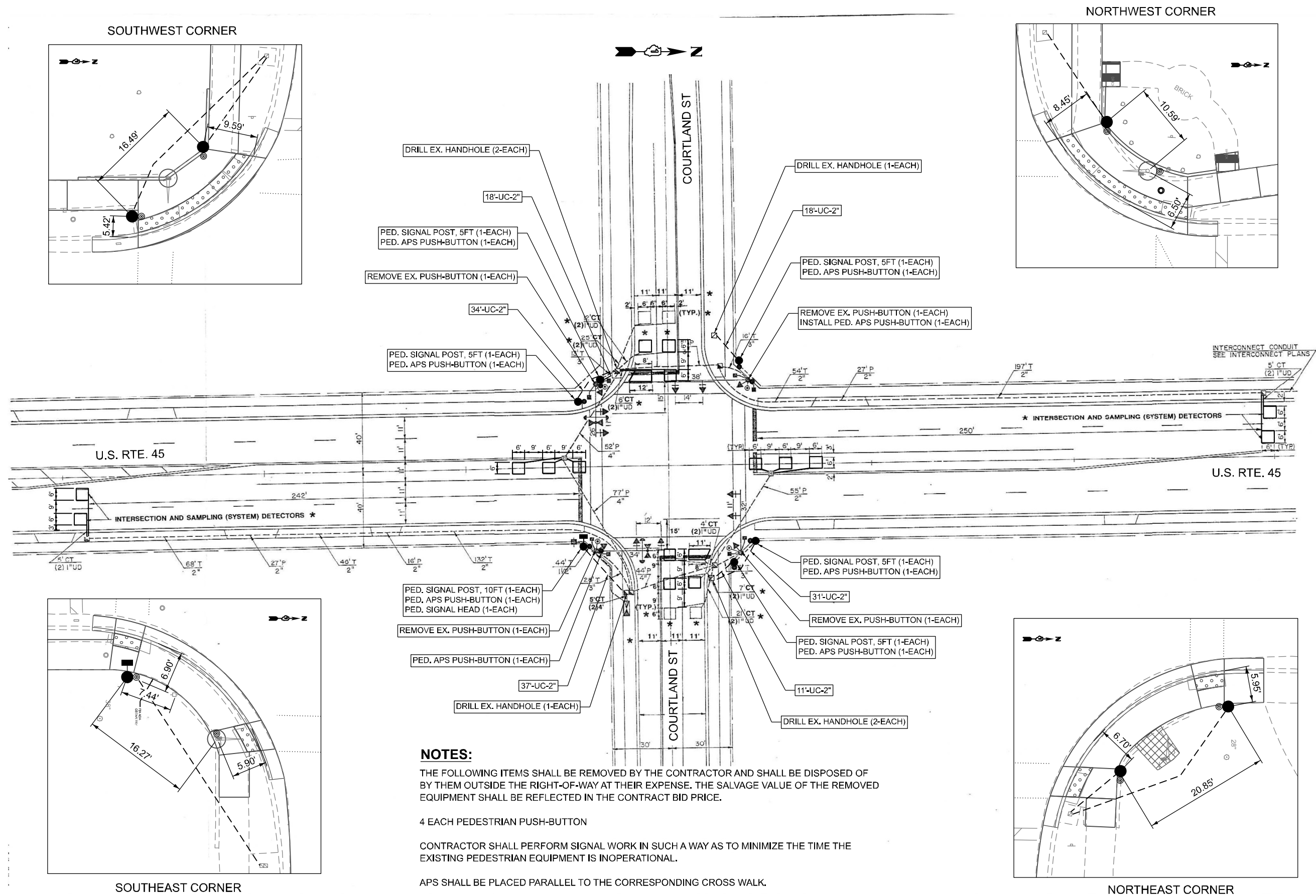
USER NAME	= jpham	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
PLOT DATE	= 9/3/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
U.S. RTE 45 (LAKE ST) AT COURTLAND ST.

SCALE: N/A SHEET 1 OF 2 SHEETS STA. TO STA.

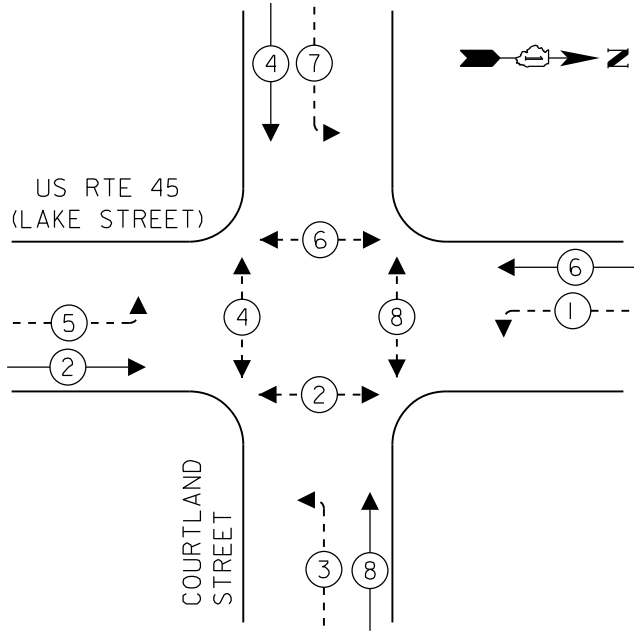
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	27
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				



TS14372
EAGLE 1J

EXISTING AND PROPOSED CONTROLLER

SEQUENCE

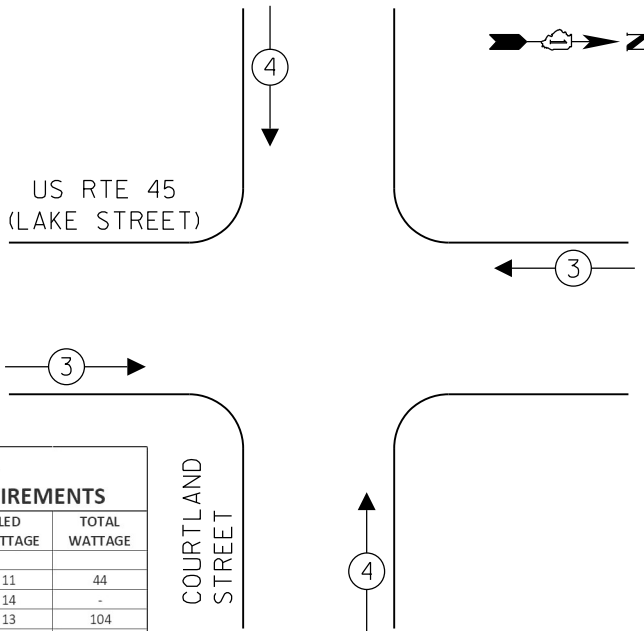


LEGEND:

- ← * → PROTECTED PHASE
- ← * - - PROTECTED/PERMITTED PHASE
- ← * - - PEDESTRIAN PHASE
- ← * OL → OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE

PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	4	11
	4-SECTION	-	14
	5-SECTION	8	13
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
	4-SECTION	-	32
	5-SECTION	-	28
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION	RADAR	-	20
	VIDEO	-	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			443
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1048

ENERGY COSTS TO: VILLAGE OF MUNDELEIN

ENERGY SUPPLY:

CONTACT: COMED REPRESENTATIVE

PHONE: (866) 639-3532

COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER: NEW METERED Acct# 47705-45000

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR

EX. INTERCONNECT TO ALLANSON RD

EX. TRACER CABLE

EXISTING TRAFFIC SIGNAL CABINET
INSTALL NEW LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	149.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	895.5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	71.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	188.0
DRILL EXISTING HANDHOLE	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED WITH COUNTDOWN TIMER	EACH	1
DETECTOR LOOP, TYPE I	FOOT	448.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	91.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	5
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

CABLE PLAN

(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
U.S. RTE 45 (LAKE ST) AT COURTLAND ST.

SCALE: SHEET 2 OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	28
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

TS14372
EAGLE 1J

MODEL: D:\XXXXXX\TS14372-sh-US45 at Courtland St Cable [Sheet]
FILE NAME: P:\2019ME\0003_Var\Var_Phil\W047_US 45_Lake St_ADA Ramp Design Improvement\01-CADD\02-Signs\0180B50-sh-TS14372-US45 at Courtland St.dgn



USER NAME = jpham	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/4/2025	DATE -	REVISED -

MODEL: D:\XXXXXX\shl\TS14345-US4_Division-Plan [Sheet]
FILE NAME: P:\2019ME\0003_VolVar_PhilWO47_US 45_Lake St_ADA Ramp Design Improvement\01-CADD\02-Shts\01-XXXXX-shl-TS14345-US45 at Division St.dgn



USER NAME = jpham	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/3/2025	DATE -	REVISED -

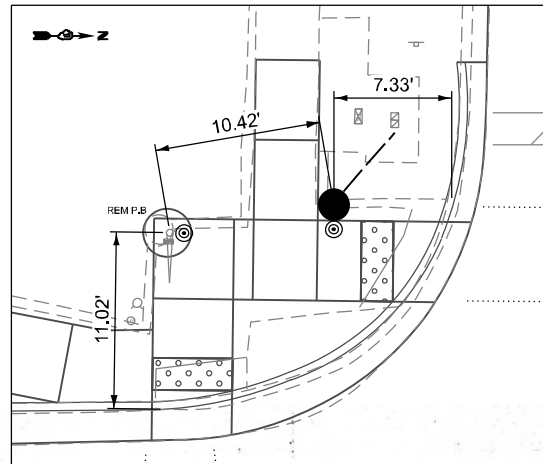
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
U.S. RTE 45 (LAKE ST) AT DIVISION ST.

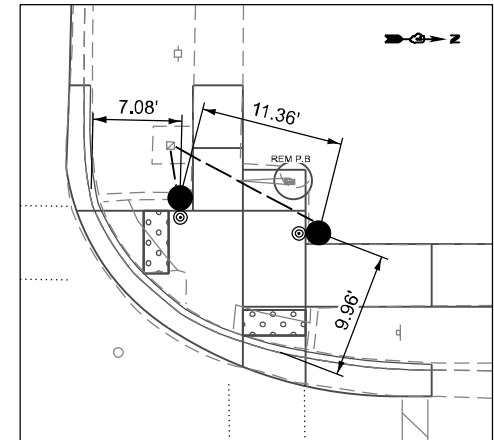
SCALE: N/A SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	29
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

SOUTHWEST CORNER



NORTHWEST CORNER



U.S. RTE. 45

U.S. RTE. 45

DIVISION ST

DIVISION ST

NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 PEDESTRIAN PUSH-BUTTON

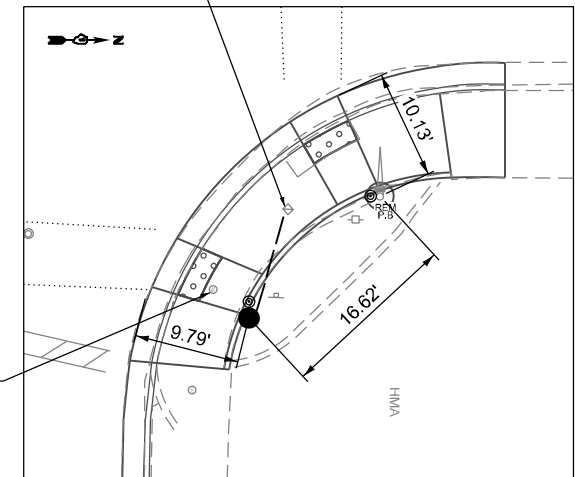
ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

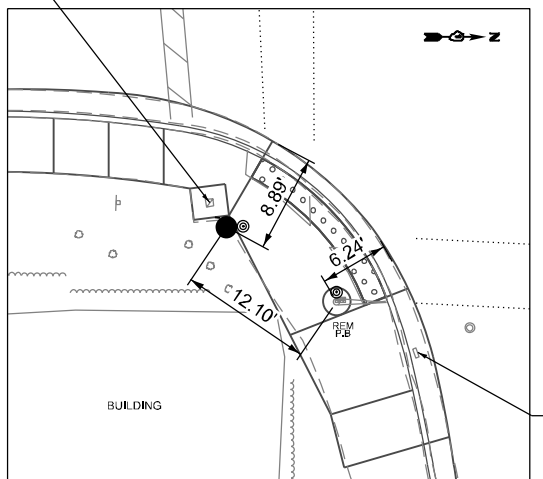
APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.

STATIONING SHOWN ON TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.

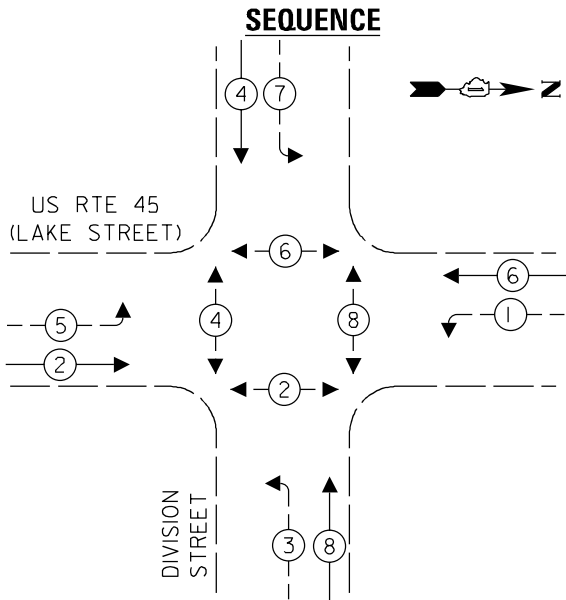
NORTHEAST CORNER



SOUTHEAST CORNER



EXISTING AND PROPOSED CONTROLLER

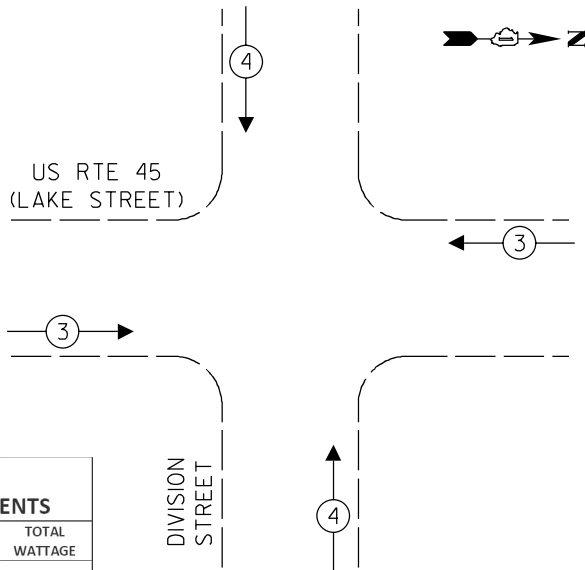


LEGEND:

- ← * → PROTECTED PHASE
- ← * - - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE

PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	4	11
	4-SECTION	-	14
	5-SECTION	8	13
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			443
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1048

ENERGY COSTS TO: VILLAGE OF MUNDELEIN

ENERGY SUPPLY:

CONTACT: COMED REPRESENTATIVE
PHONE: (866) 639-3532
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: NEW METERED Acct# 47705-45000

SCHEDULE OF QUANTITIES

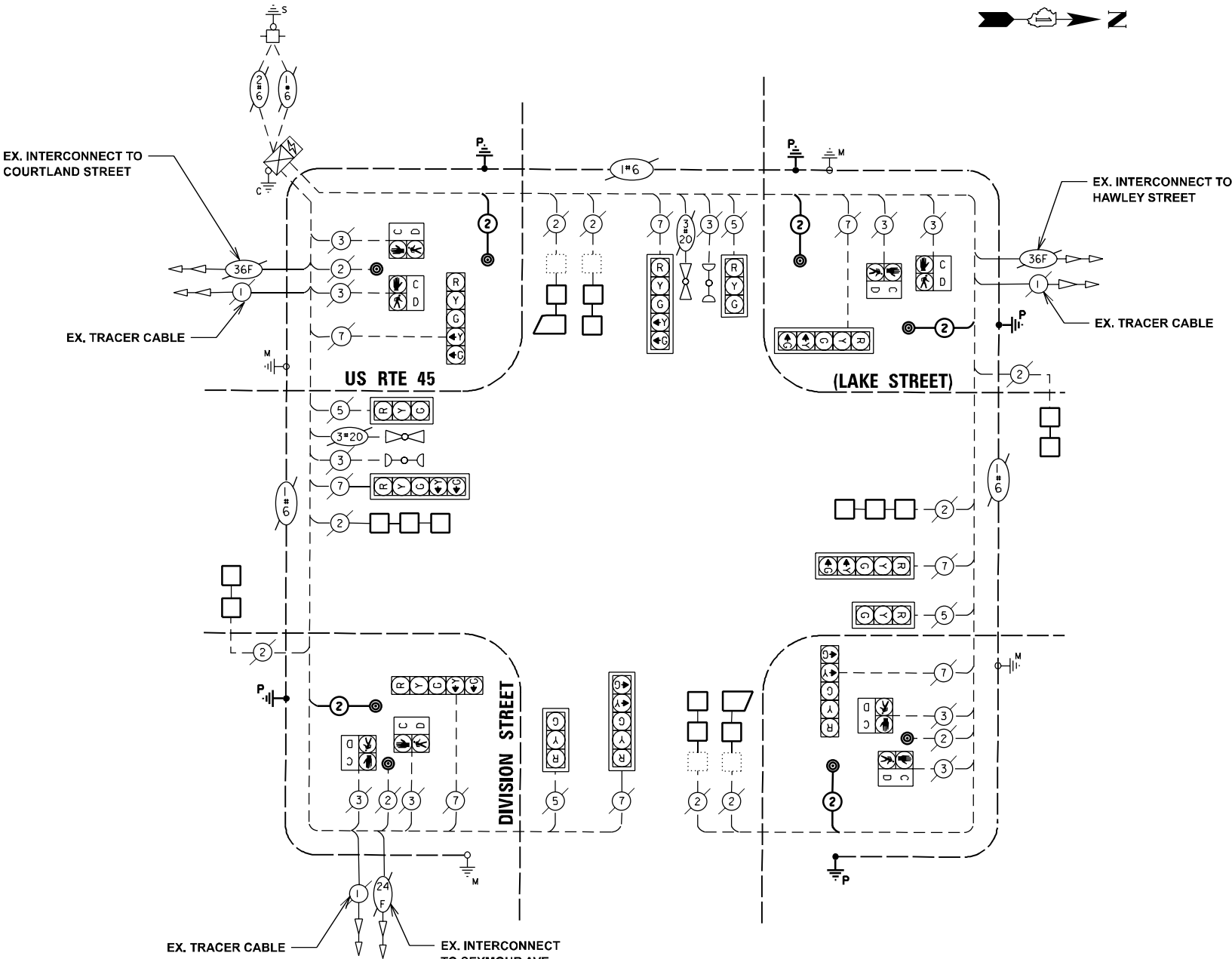
ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	36.0
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	618.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	56.0
DRILL EXISTING HANDHOLE	EACH	5
DETECTOR LOOP, TYPE I	FOOT	608.0
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	111.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	5
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20.0
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
U.S. RTE 45 (LAKE ST) AT DIVISION ST.

SCALE: SHEET 2 OF SHEETS STA. TO STA.

CABLE PLAN
(NOT TO SCALE)

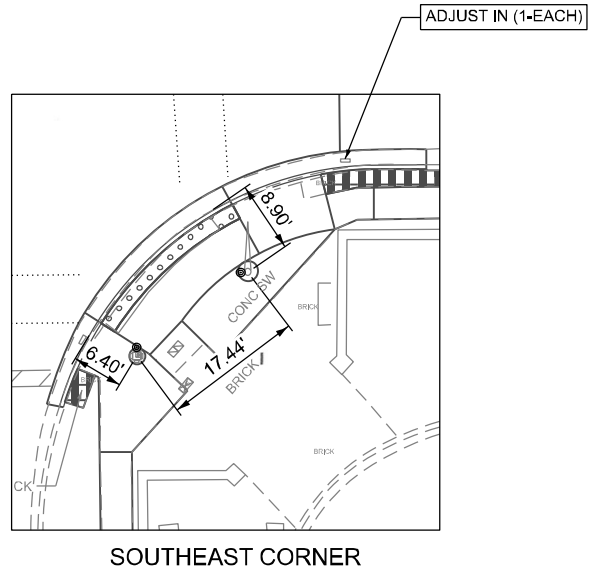
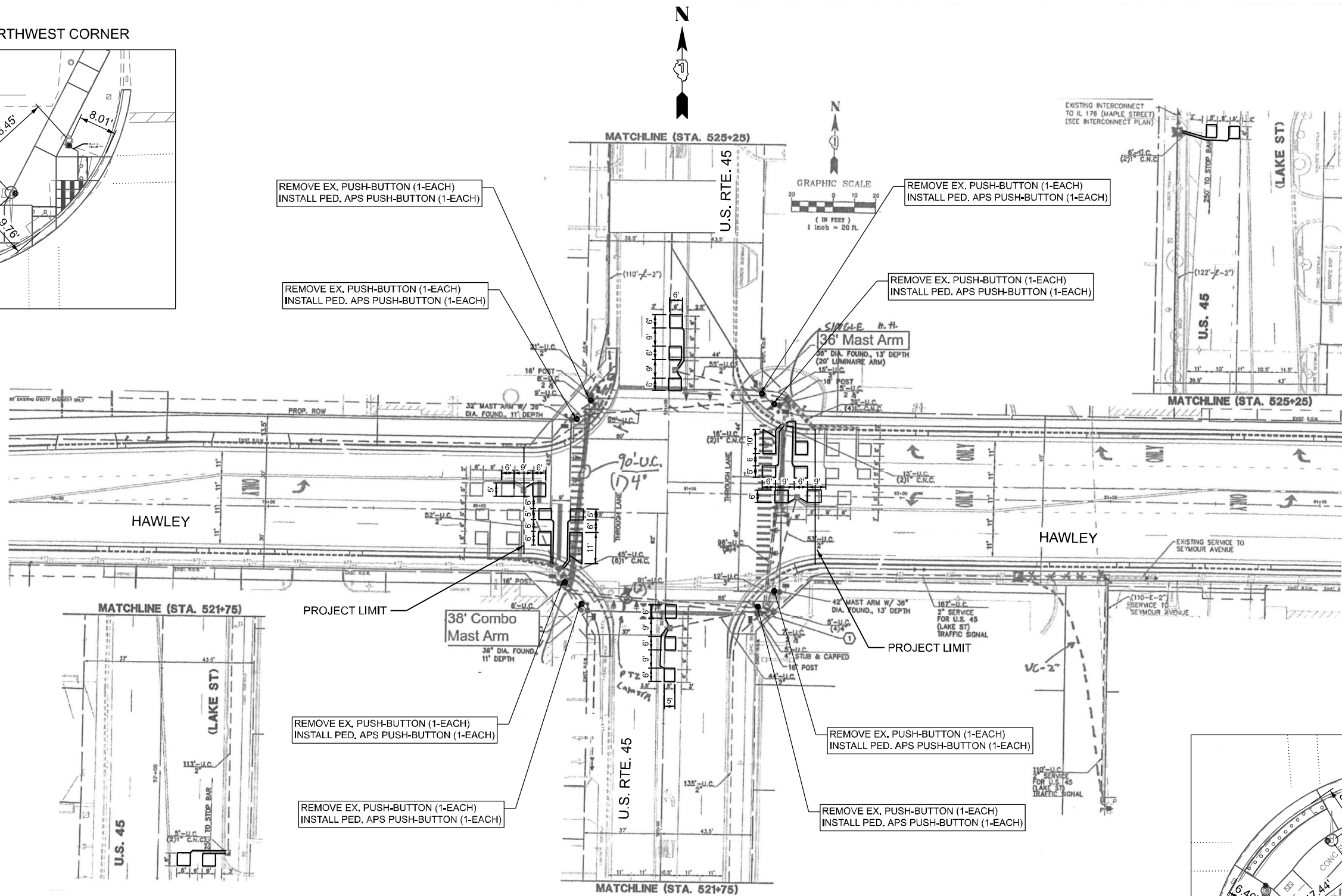
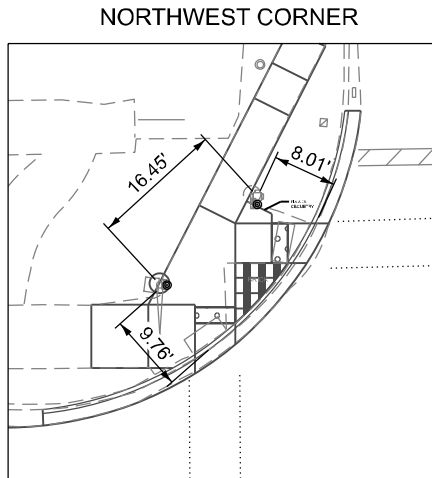


TS14345
EAGLE 1J

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	30
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

MILLENNIA
PROFESSIONAL SERVICES

USER NAME = jpham	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/4/2025	DATE -	REVISED -



MODEL: D:\XXXXXX\shl-TS14350-US45-Hawley Plan [Sheet]
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USER NAME = jpham	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/3/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
U.S. RTE 45 (LAKE ST) AT HAWLEY ST.

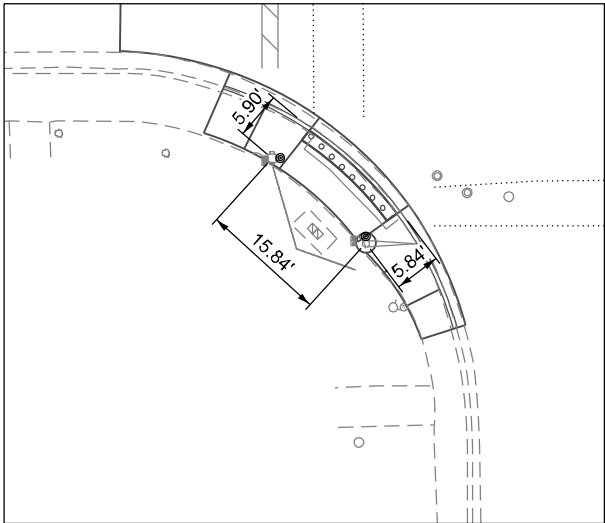
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	31
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

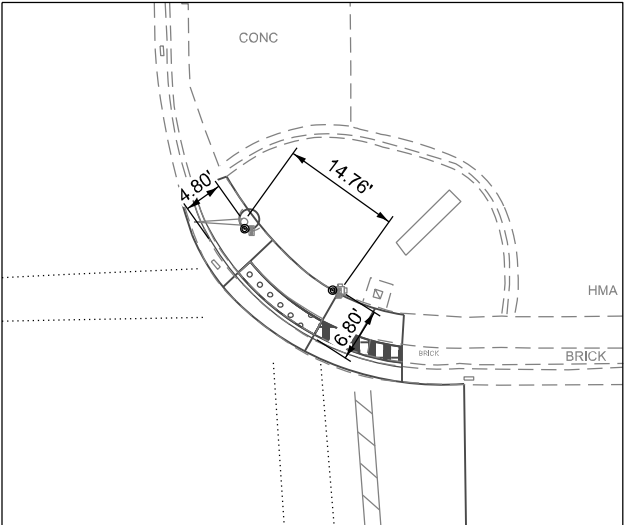
TS14350
EAGLE 1J

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SOUTHWEST CORNER



NORTHEAST CORNER



NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 PEDESTRIAN PUSH-BUTTON

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.

STATIONING SHOWN ON TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.



USER NAME	= jpham	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 9/3/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
U.S. RTE 45 (LAKE ST) AT HAWLEY ST.

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	32
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

TS14350
EAGLE 1J

MODEL: D:\XXXXXX\ts14350-US45-Hawley Cable (Sheet)
FILE NAME: P:\2019\ME 0903_VanVar_PhilWO17_US 45_Lake St ADA Ramp Design Improvement\01-CADD\02-Signs\0180B50-sh1-TS14350-US45_Hawley St.dgn

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	7	11
	4-SECTION	-	14
	5-SECTION	8	13
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION	RADAR	-	20
VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			496
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1101

ENERGY COSTS TO: VILLAGE OF MUNDELEIN

ENERGY SUPPLY:

CONTACT: COMED REPRESENTATIVE

PHONE: (866) 639-3532

COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER: NEW METERED Acct# 47705-45000



USER NAME	= jpham
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT DATE	= 9/4/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

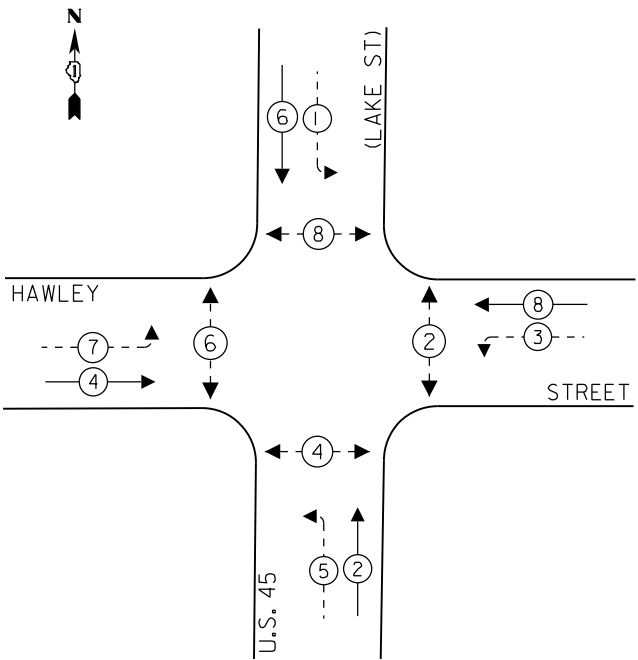
CABLE PLAN
U.S. RTE 45 (LAKE ST) AT HAWLEY ST.

SCALE: SHEET 3 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	33
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

TS14350
EAGLE 1J

EXISTING AND PROPOSED CONTROLLER SEQUENCE

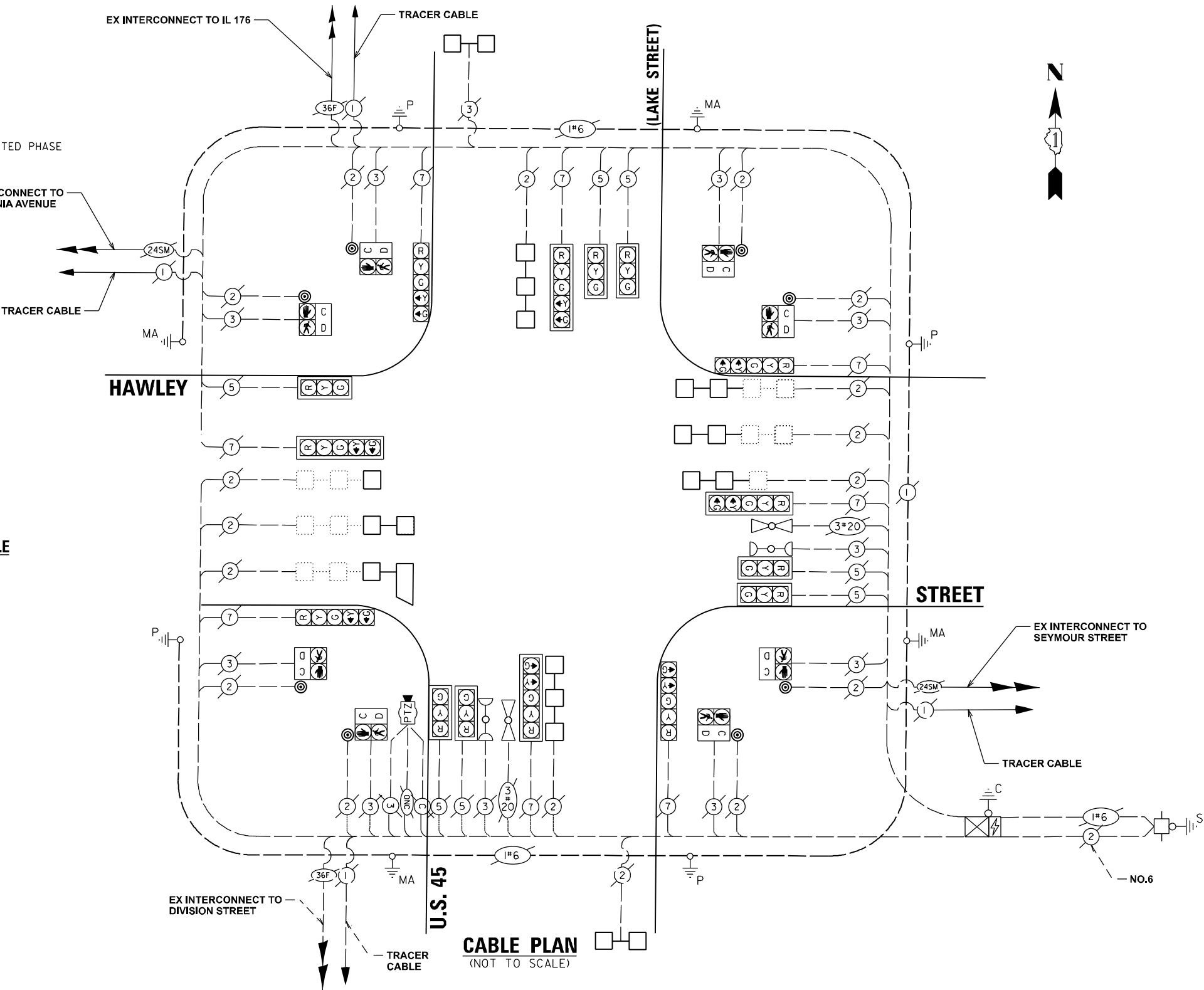
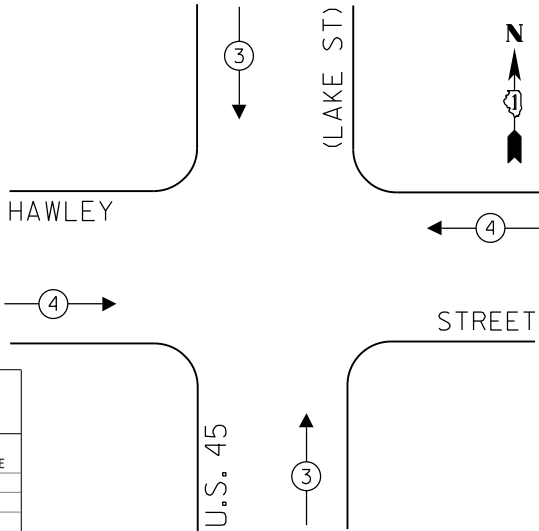


LEGEND:

- ← (⊙) → PROTECTED PHASE
- ← (⊙) - PROTECTED/PERMITTED PHASE
- ← (⊙) → PEDESTRIAN PHASE
- ← (⊙) OL OVERLAP

EX INTERCONNECT TO CALIFORNIA AVENUE

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN (NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
DETECTOR LOOP, TYPE I	FOOT	776.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

NOTES:

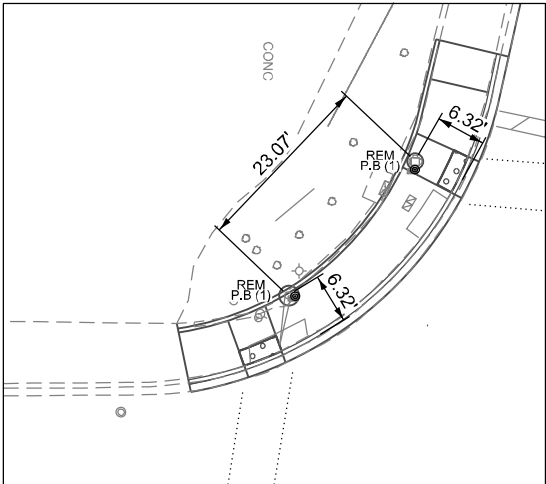
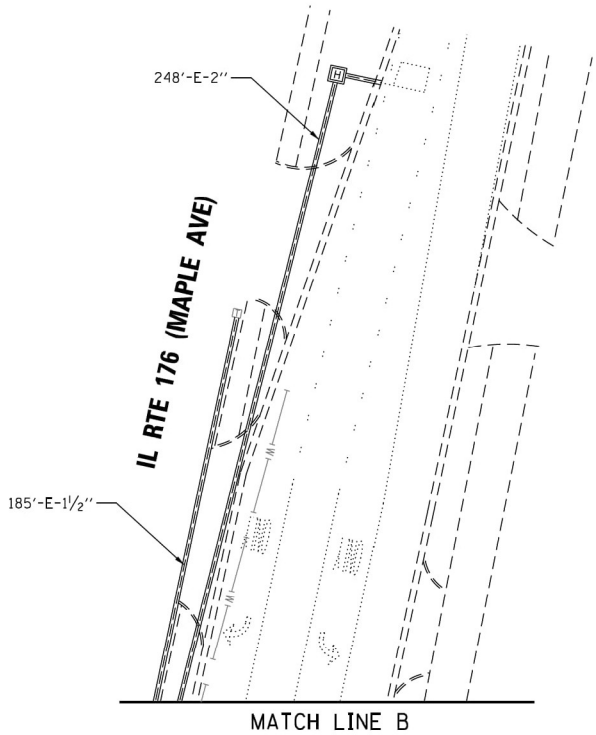
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

7 PEDESTRIAN PUSH-BUTTON

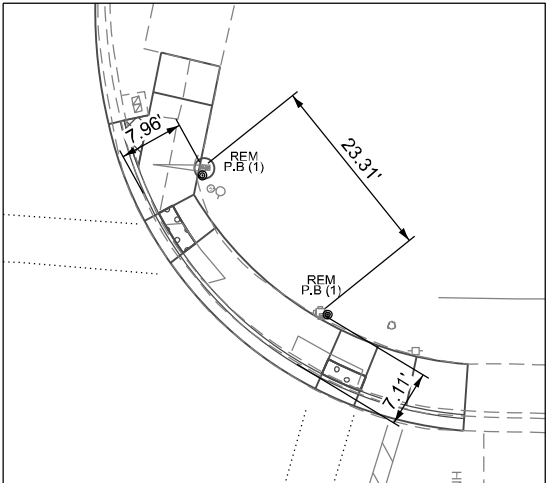
CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIONAL.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSS WALK.

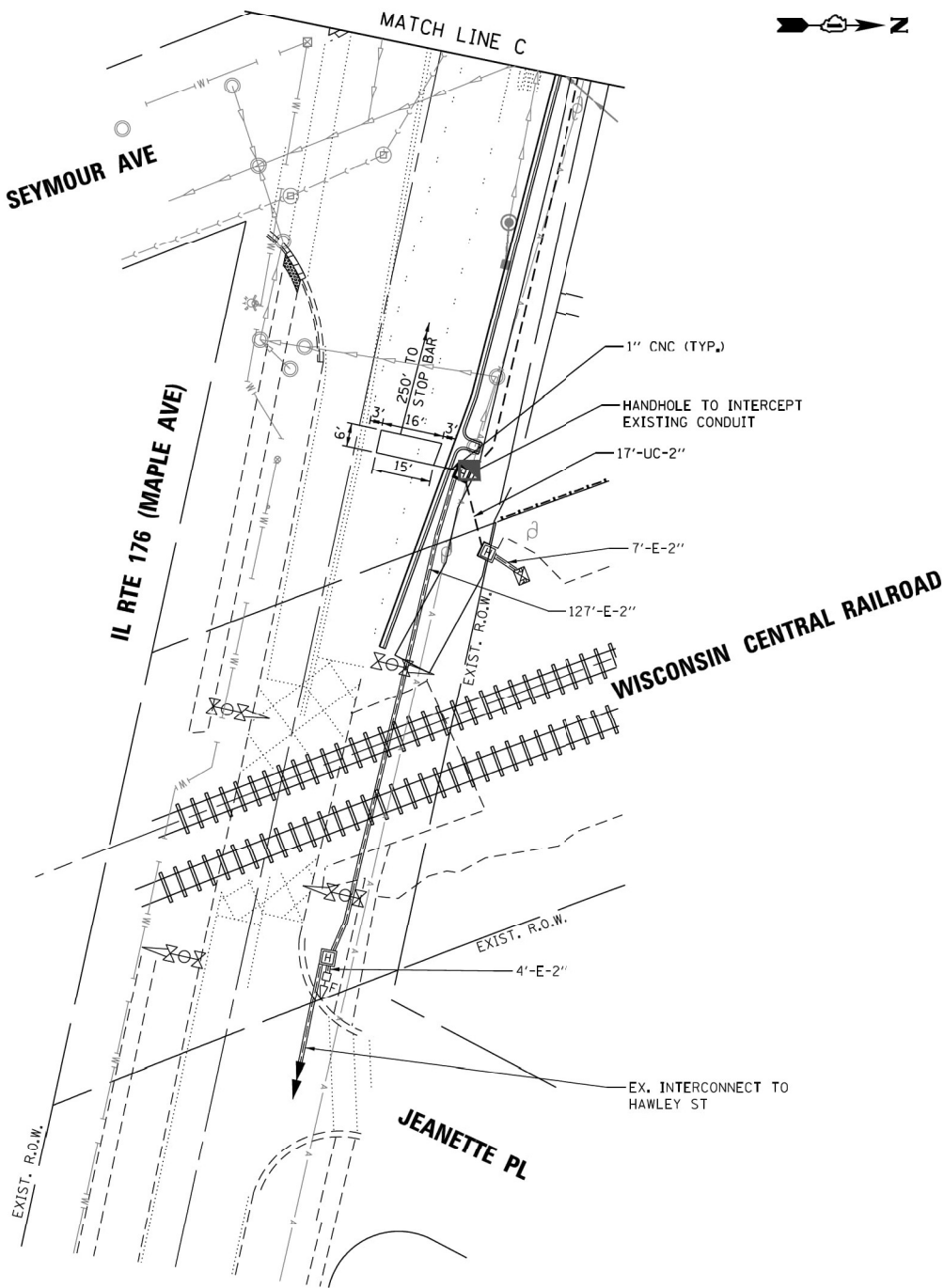
STATIONING SHOWN ON TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS AND WILL NOT MATCH OTHER PLANS.



SOUTHWEST CORNER_US45-MAPLE AVE



NORTHWEST CORNER_US45-MAPLE AVE



ANY PROPOSED ACTIVITY IN THE VICINITY OF HIGHWAY-RAIL GRADE CROSSING MUST ADHERE TO THE GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) UNDER SECTION 6G.18: WORK IN THE VICINITY OF A GRADE CROSSING WHICH STATES: "WHEN GRADE CROSSINGS EXIT EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE."

MODEL: TS6625 Pln 02 [Sheet]
FILE NAME: P:\2019\ME 0003_VanVar_PhilWO47_US 45_Lake St_ADA Ramp Design Improvement\01-CADD\02-Shts\01XXXXX-sht-TS6625-US45_Maple Ave.dgn



USER NAME = jpham	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/3/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
U.S RTE 45 (LAKE ST)AT IL RTE 176 (MAPLE AVE)

SCALE: N/A SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	35
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

TS6625
EAGLE 1J

MODEL: TS6625 Cable 01 [Sheet]
FILE NAME: P:\2019\ME 1903_VanVar_PhilWO47_US 45_Lake St_ADA Ramp Design Improvement01-CADD\02-Signs\0180B50-sh-TS6625-US45_Maple Ave.dgn

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MAINTENANCE OF EXISTING FLASING BEACON INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	142.0
DETECTOR LOOP, TYPE I	FOOT	534.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	2	11
	4-SECTION	-	14
	5-SECTION	12	13
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			493
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1098

ENERGY COSTS TO: VILLAGE OF MUNDELEIN

ENERGY SUPPLY:

CONTACT: COMED REPRESENTATIVE
PHONE: (866) 639-3532
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: NEW METERED Acc# 47705-45000



USER NAME	= jpham
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
PLOT DATE	= 9/4/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
U.S RTE 45 (LAKE ST) AT IL RTE 176 (MAPLE AVE)

SCALE: SHEET 3 OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	36
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

TS6625
EAGLE 1J

MOVEMENT																	F L A S H																			
PHASE		1 + 5				1 + 6			2 + 5			2 + 6			3 + 7				3 + 8				4 + 7				4 + 8									
INTERVAL		1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16	17		18	19	20	21A	21B	22	23	24	25A	25B	26	27	28A	28B'		
CHANGE TO		/	1+6	2+5	2+6	Ø	Ø	/	Ø	Ø	2+6	/	/	/	3+7 3+8 4+7 4+8	/	3+8	4+7	1+5 1+6 2+5 2+6,4+8		Ø	Ø	4+8	1+5 1+6 2+5 2+6	Ø	Ø	4+8	1+5 1+6 2+5 2+6	/	/	1+5 1+6 2+5 2+6					
IIS RTE 45 FAR LEFT AND END MAST ARM SIGNALS	NB	R ←G	R ←Y	R ←G	R ←Y	R	R	R	G ←G	G ←G	G ←Y	G	G	Y	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R		
US RTE 45 FAR RIGHT MAST ARM SIGNAL	NB	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R		
US RTE 45 FAR LEFT AND END MAST ARM SIGNALS	SB	R ←G	R ←G	R ←Y	R ←Y	R ←G	G ←G	G ←Y	R	R	R	G	G	Y	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R		
US RTE 45 FAR RIGHT MAST ARM SIGNAL	SB	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R		
IL RTE 176 FAR LEFT AND END MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ←G	R ←Y	R ←G	R ←Y		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
IL RTE 176 NEAR AND FAR RIGHT MAST ARM SIGNALS	EB	R →G	R →Y	R →G	R →Y	R	R	R	R →G	R →G	R →Y	R	R	R	R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
IL RTE 176 FAR LEFT AND END MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ←G	R ←G	R ←Y	R ←Y		R ←G	R ←G	R ←Y	R ←Y												
IL RTE 176 NEAR AND FAR RIGHT MAST ARM SIGNALS	WB	R →G	R →G	R →Y	R →Y	R →G	R →G	R →Y	R	R	R	R	R	R	R	R	R	R	R		R →G	R →G	R →Y	R →Y												
PEDESTRIAN CROSSING US RTE 45 NORTH SIDE OF IL RTE 176		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		*P	**FH	H	H	H	H	H	H	H	H	*P	**FH	H	H	DARK	
PEDESTRIAN CROSSING US RTE 45 SOUTH SIDE OF IL RTE 176		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H		H	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK	
PEDESTRIAN CROSSING IL RTE 176 WEST SIDE OF US RTE 45		H	H	H	H	*P	**FH	H	H	H	H	*P	**FH	H	H	H	H	H	H		H	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK	
PEDESTRIAN CROSSING IL RTE 176 FAST SIDE OF IIS RTE 45		H	H	H	H	H	H	H	*P	**FH	H	*P	**FH	H	H	H	H	H	H		H	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK	
IL RTE 176 YELLOW FLASHER EAST OF TRACKS		FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y		D	D	D	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	D	D	FL Y	FL Y	DARK	

PHASE 2+6 SHALL BE PLACED ON RECALL.

[illegible]

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE PREEMPTION INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTERVAL 2 OR 3 IS TERMINATED.

MODEL: TS6625 Cable 03 [Sheet]
FILE NAME: P:\2019\ME1903_Var\Var_PhilWO47_US 45_Lake St_ADA Ramp Design Improvement\01-CADD\02-Shts\01XXXXXX-sh1-TS6625-US45_Maple Ave.dgn

EXISTING RAILROAD PREEMPTION SEQUENCE OF OPERATION																	PREEMPTION NUMBER 2									
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5			8			11			14			18			22			26						
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER														2		3										
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	2	3	4	5	CLEAR TO NORMAL SEQUENCE				
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	2	2	1L	2	1N	2	1Q	2	1S	2	3	4	5						
US RTE 45 FAR LEFT AND END MAST ARM SIGNALS	NB ←R Y	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△				
US RTE 45 FAR RIGHT MAST ARM SIGNAL	NB	R	R	R	Y	R	Y	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△				
US RTE 45 FAR LEFT AND END MAST ARM SIGNALS	SB ←R Y	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△				
US RTE 45 FAR RIGHT MAST ARM SIGNAL	SB	R	Y	R	R	R	Y	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△				
IL RTE 176 FAR LEFT AND END MAST ARM SIGNALS	EB	R	R	R	R	R	R	R	←R Y	R	Y	R	Y	R	R	R	Y	R	R	R	R	△				
IL RTE 176 NEAR AND FAR RIGHT MAST ARM SIGNALS	EB Y←R	R	R	R	←R Y	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	△				
IL RTE 176 FAR LEFT AND END MAST ARM SIGNALS	WB	R	R	R	R	R	R	R	←R G	←G	R	R	G	G	R	R	G	G	←G	←G	Y	R	R	△		
IL RTE 176 NEAR AND FAR RIGHT MAST ARM SIGNALS	WB Y←R Y←R	R	←R Y	R	R	R	R	R	R	G	R	R	G	G	R	R	G	G	G	G	Y	R	R	△		
PEDESTRIAN CROSSING US RTE 45 NORTH SIDE OF IL RTE 176		H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	△				
PEDESTRIAN CROSSING US RTE 45 SOUTH SIDE OF IL RTE 176		H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	△				
PEDESTRIAN CROSSING IL RTE 176 WEST SIDE OF US RTE 45		H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△				
PEDESTRIAN CROSSING IL RTE 176 EAST SIDE OF US RTE 45		H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△				
IL RTE 176 YELLOW FLASHER EAST OF TRACKS	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y					

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL
SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE PREEMPTION
INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

HOLD



USER NAME = jpham	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 9/3/2025	DATE -	REVISED -

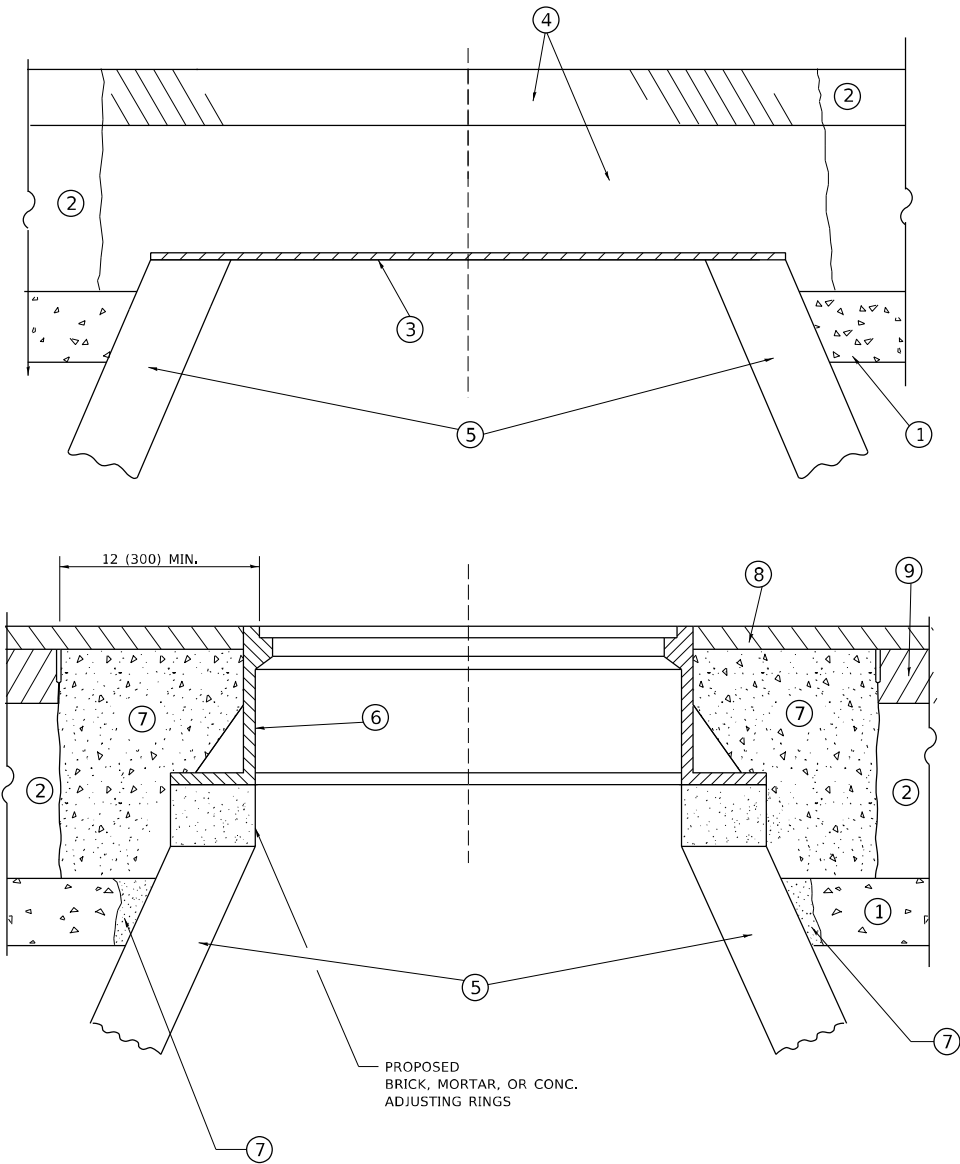
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN
U.S. RTE 45 (LAKE ST) AT IL RTE 176 (MAPLE AVE)

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-rs	LAKE	50	38
CONTRACT NO. 80B50				
ILLINOIS FED. AID PROJECT				

TS6625
EAGLE 1J



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

NOTES

- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS PP-2* CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: Default
FILE NAME: V:\distr622534\bd08.dgn

USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11
	DRAWN -	REVISED - R. BORO 12-06-11
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

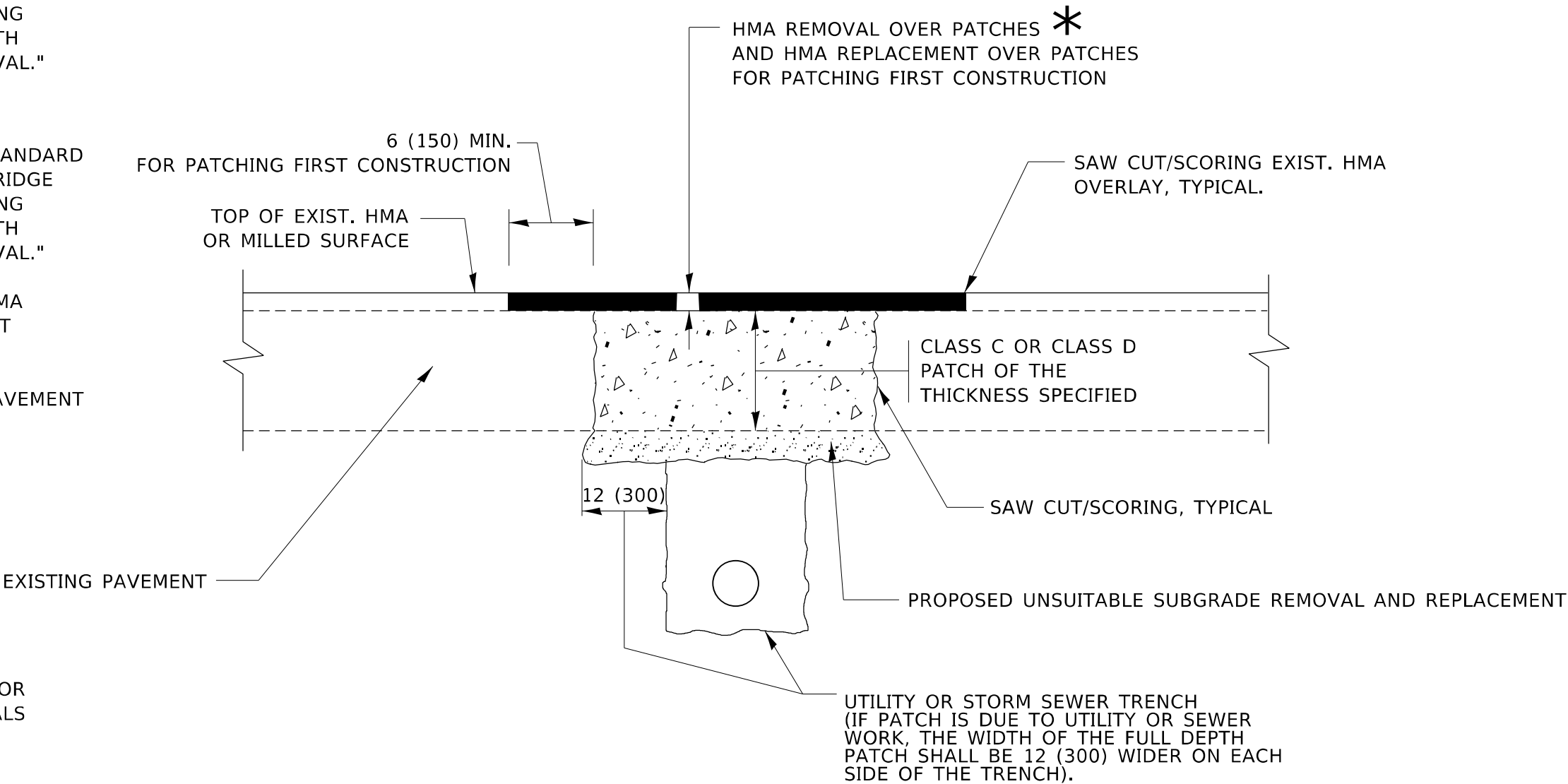
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	39
BD600-03 (BD-08)		CONTRACT NO. 80B50		
		ILLINOIS	FED. AID PROJECT	

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

- 1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
- 2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
- 3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

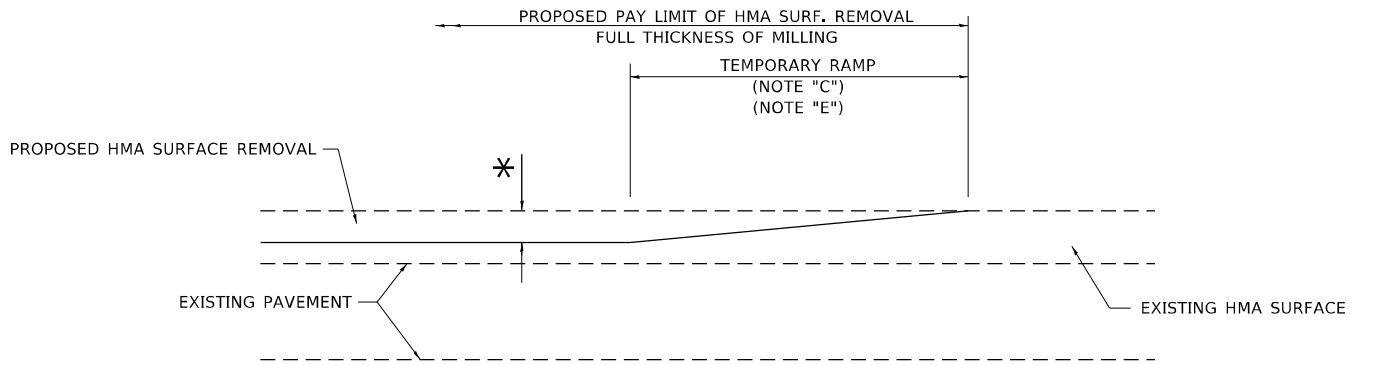
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
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C:\Users\jmanley\OneDrive\Documents\DOT Office\District 1\Projects\District 1\Projects\BD400-04\BD400-04.dwg

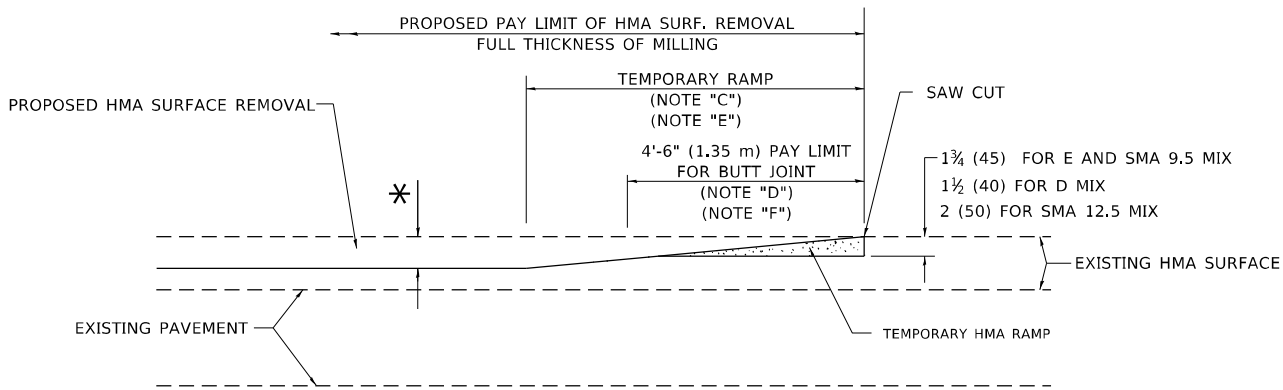
	USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 09-04-07						344	2025-2069-RS	LAKE	50	40
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08						BD400-04 (BD-22)		CONTRACT NO. 80B50		
	PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22						ILLINOIS FED. AID PROJECT				
				SCALE: NONE		SHEET 1	OF 1	SHEETS	STA.	TO STA.			



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

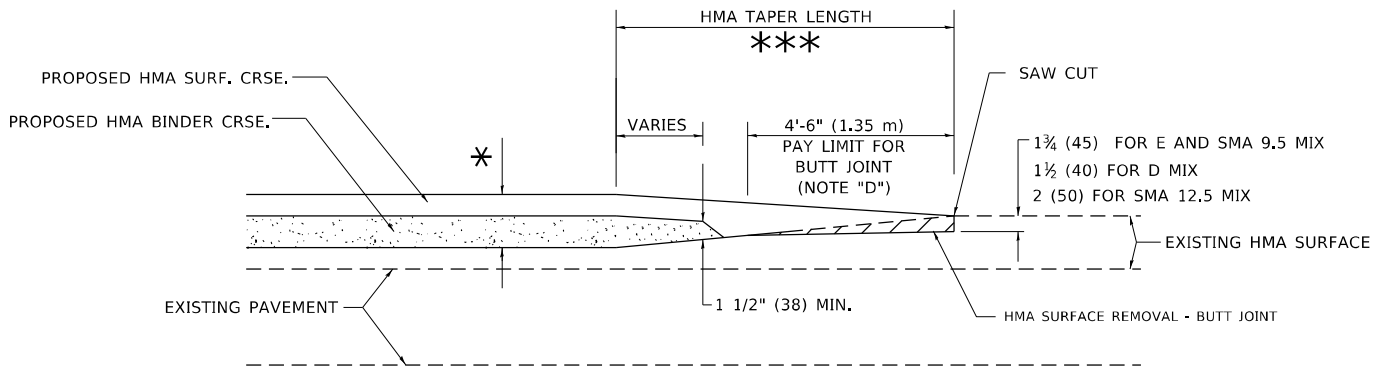


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

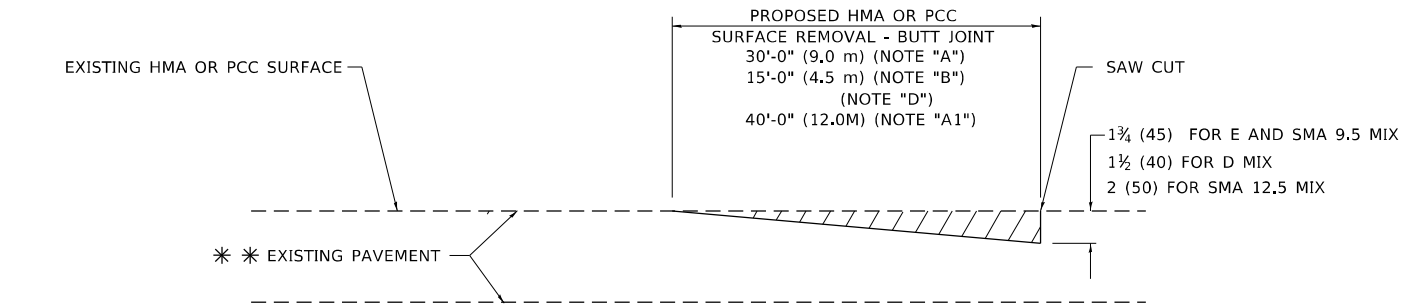
OPTION 2

TYPICAL TEMPORARY RAMP

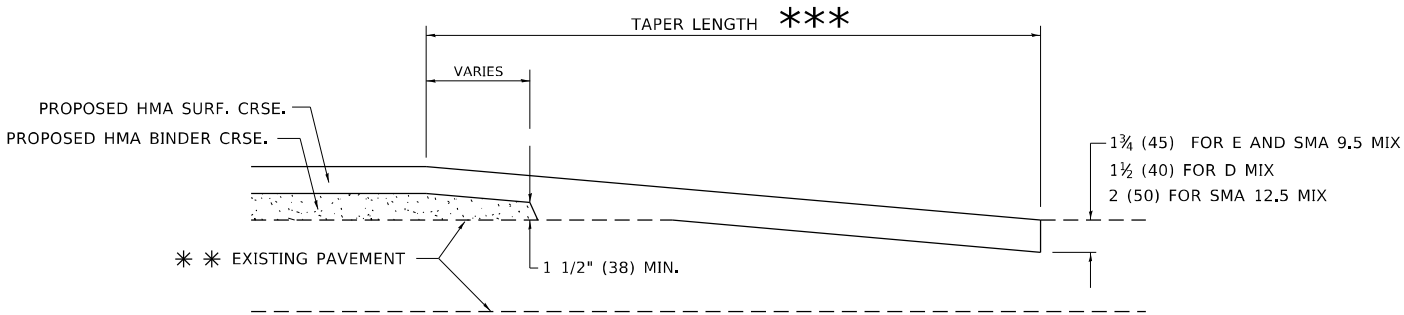


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

- MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- INTERSTATES
- MINOR SIDE ROADS.
- THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
FILE: \\nrt1p01\public\ewh\hwy.com\p\W\DOT\Documents\DOT Office\District 1\Projects\Dist5\4273\ACAD\Draws\CAD\Sheets\04B2.dgn

USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

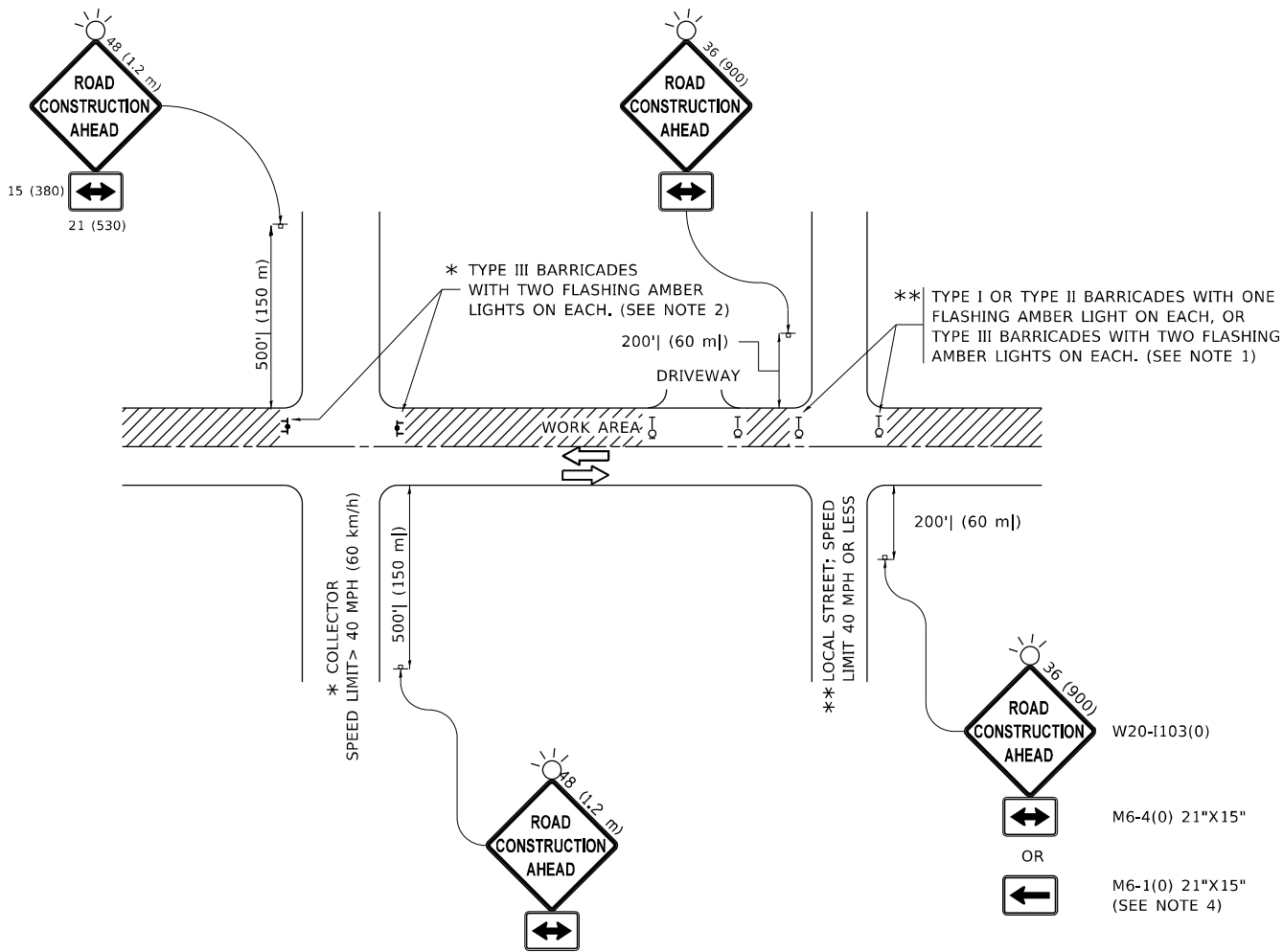
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	2025-2069-RS	LAKE	50	42
BD400-05 BD-32		CONTRACT NO. 80B50		
ILLINOIS		FED. AID PROJECT		

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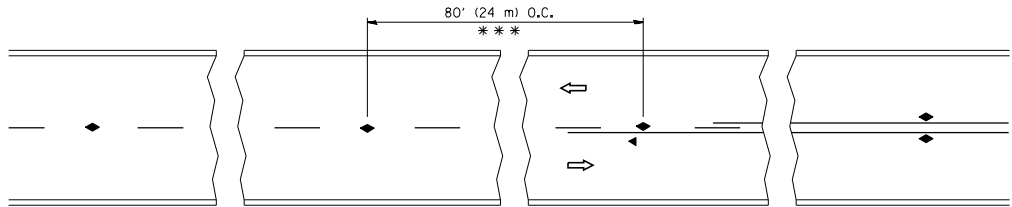


NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

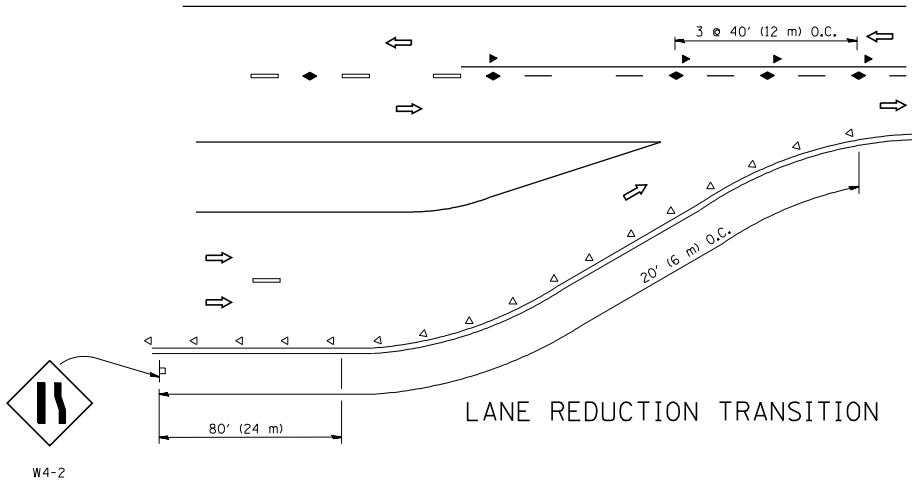
All dimensions are in inches (millimeters)
unless otherwise shown.

	USER NAME = Lawrence,DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - A. SCHUETZE 07-01-13						344	2025-2069-RS	LAKE	50	43
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16						TC-10		CONTRACT NO. 80B50		
	PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24						ILLINOIS FED. AID PROJECT				

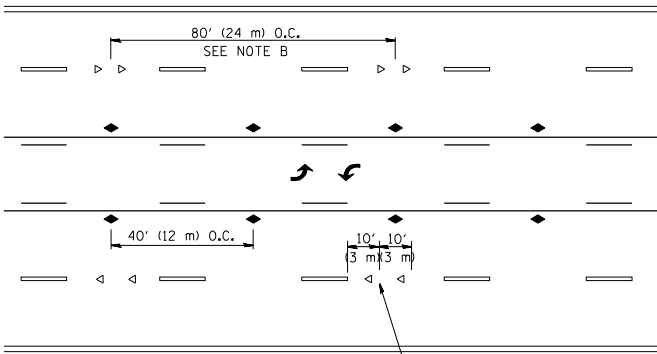


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

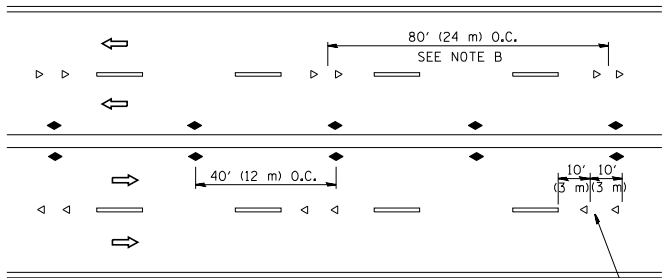


LANE REDUCTION TRANSITION



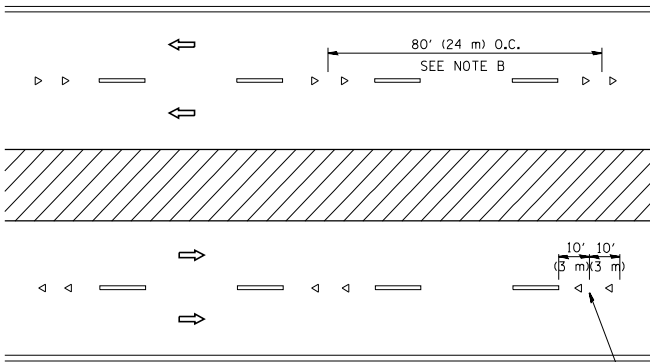
SEE NOTE A

TWO-WAY LEFT TURN



SEE NOTE A

MULTI-LANE/UNDIVIDED



SEE NOTE A

MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

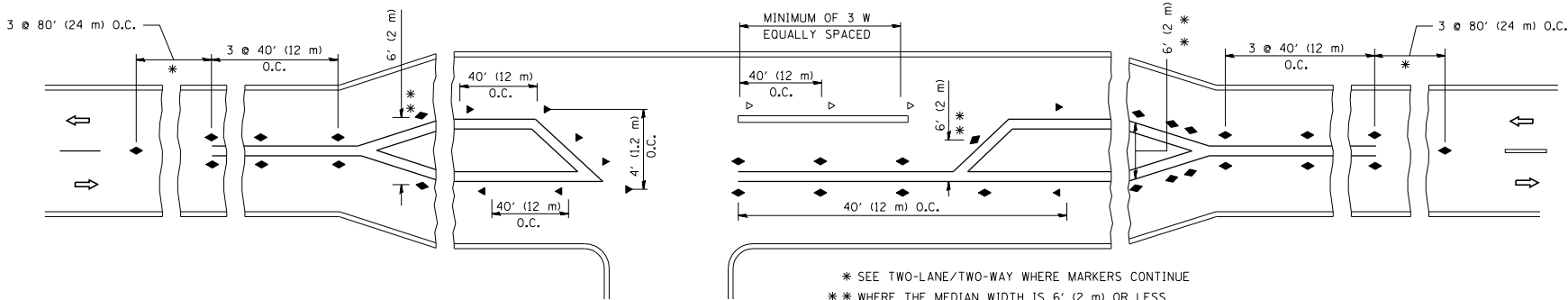
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

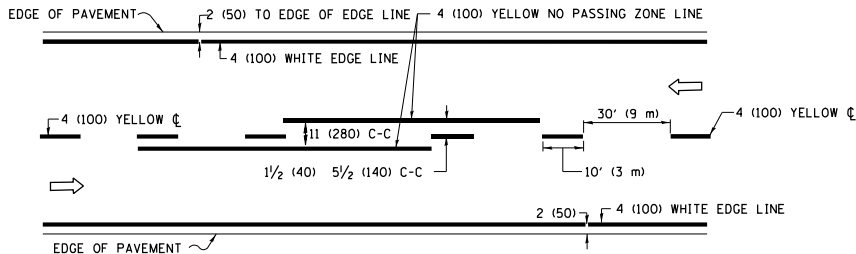
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



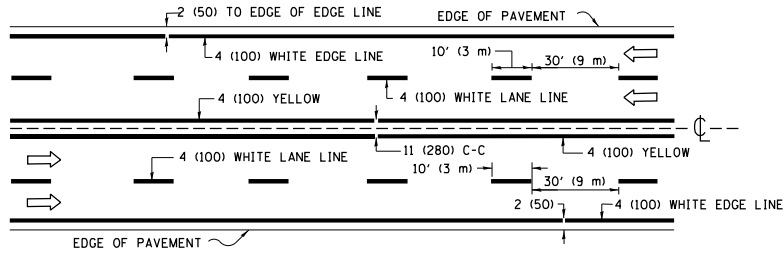
LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

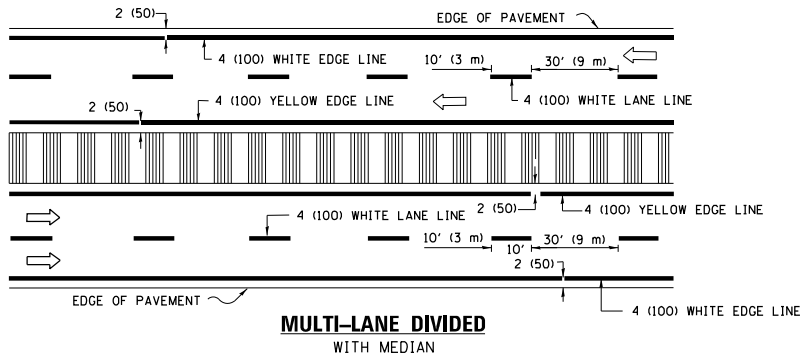
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		DRAWN -	REVISED - T. RAMMACHER 03-12-99					344	2025-2069-RS	LAKE	50	44
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00		TC-11			CONTRACT NO.		80B50		
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



2-LANE ROADWAY

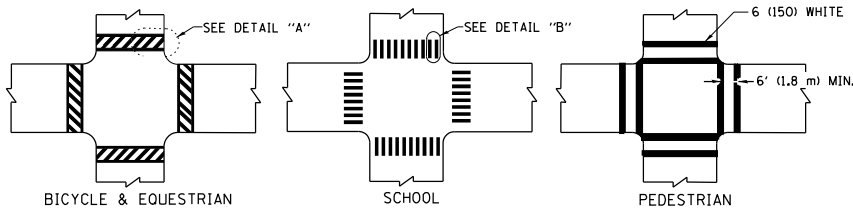


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

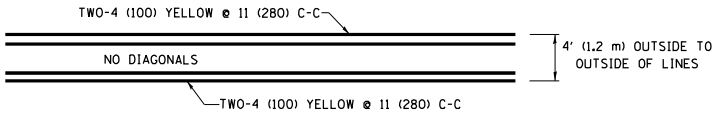


DETAIL "A"

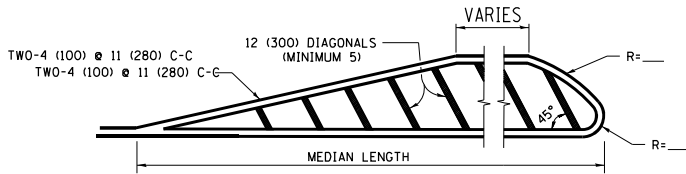
DETAIL "B"

TYPICAL CROSSWALK MARKING

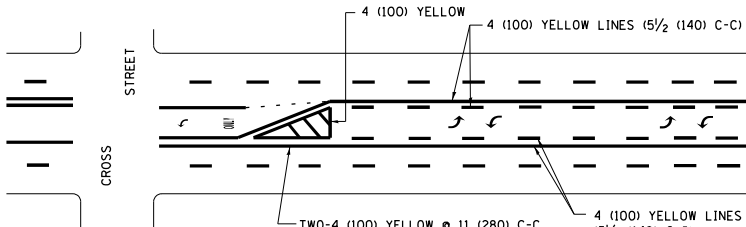
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

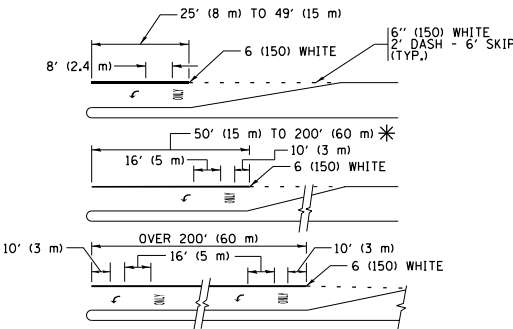


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

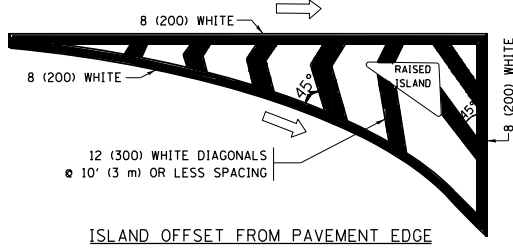
TYPICAL PAINTED MEDIAN MARKING



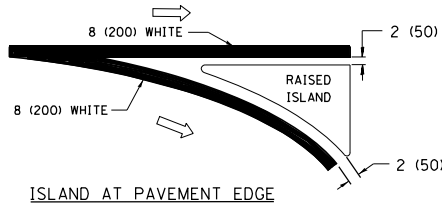
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

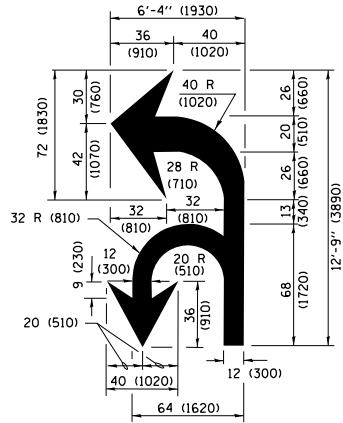


ISLAND OFFSET FROM PAVEMENT EDGE

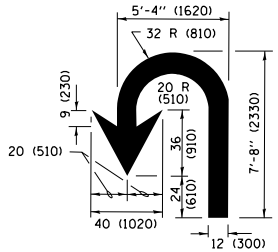


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS				F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\1084EBID\INTEG\illinois.gov\PWIDOT\Documents\1DOT Offices\District 1\Projects\District 1\CAD\1084EBID\1084EBID.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13						344	2025-2069-RS	LAKE	50	45
Default	PLOT SCALE = 50.000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15		TC-13		CONTRACT NO.		80B50				
	PLOT DATE = 8/20/2018		REVISED - C. JUCIUS 04-12-16		SCALE: NONE		SHEET 1	OF 1 SHEETS	STA.	TO STA.			

TURN BAY ENTRANCE AT START
OF LANE CLOSURE TAPER

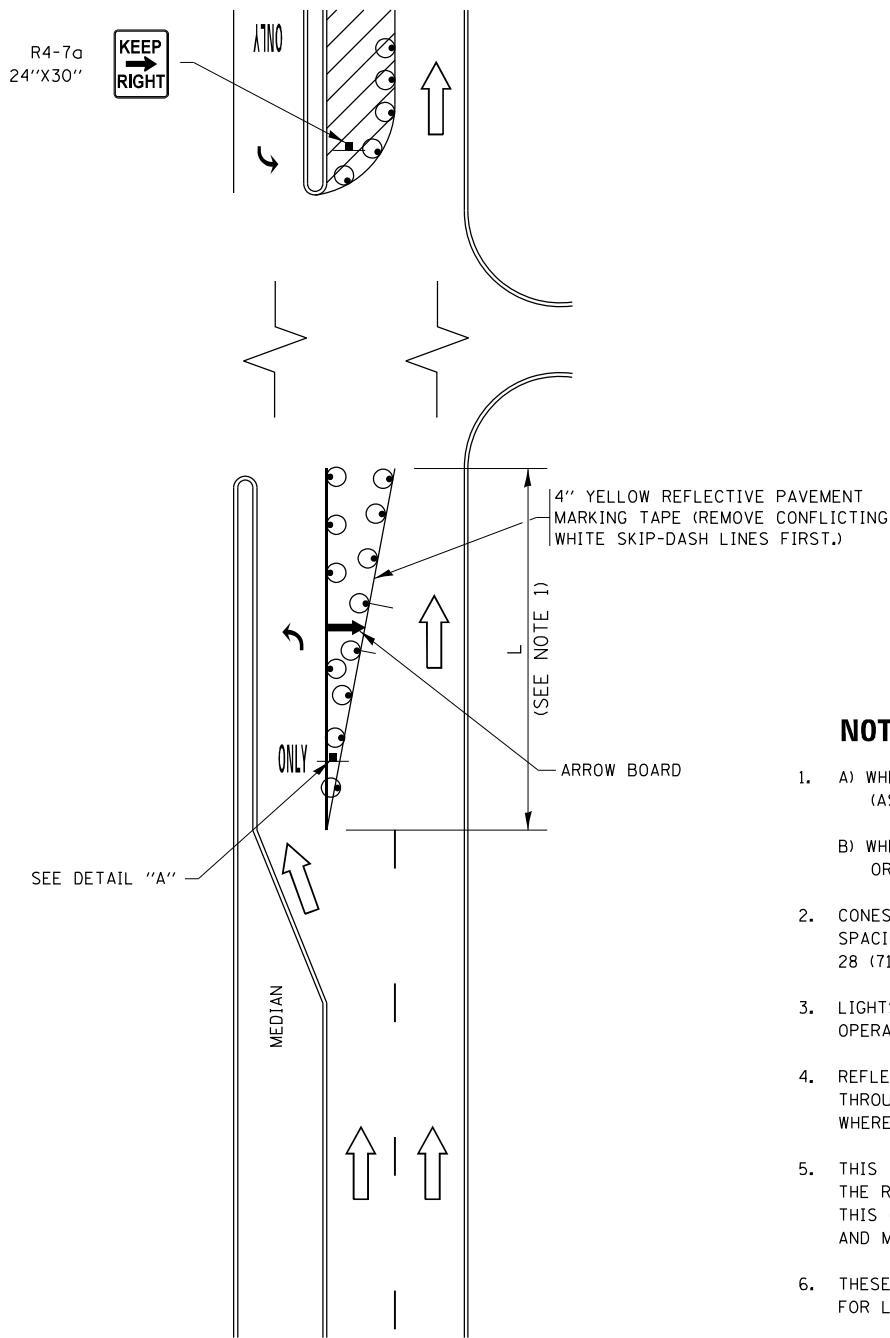
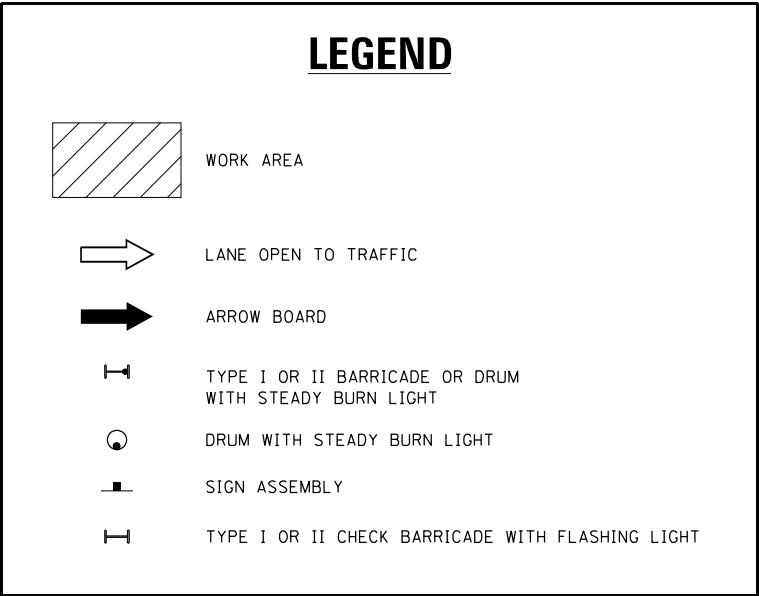


FIGURE 1

LEGEND



NOTES:

1. A) WHEN "L" IS $\leq$ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE
WITHIN A LANE CLOSURE

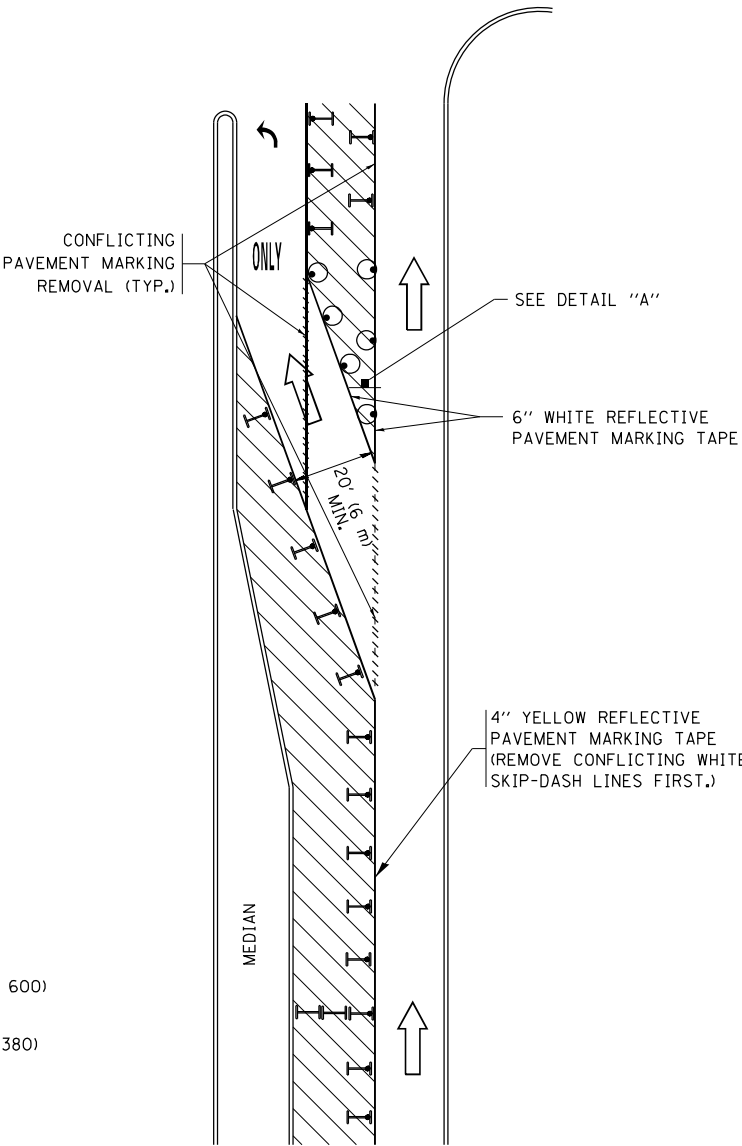
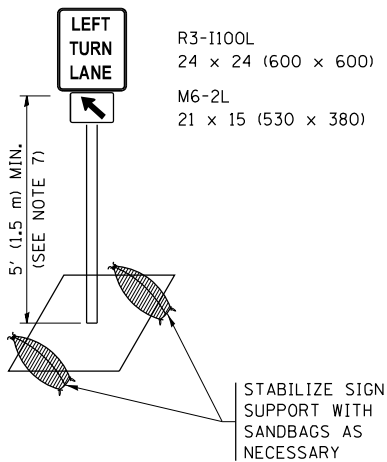


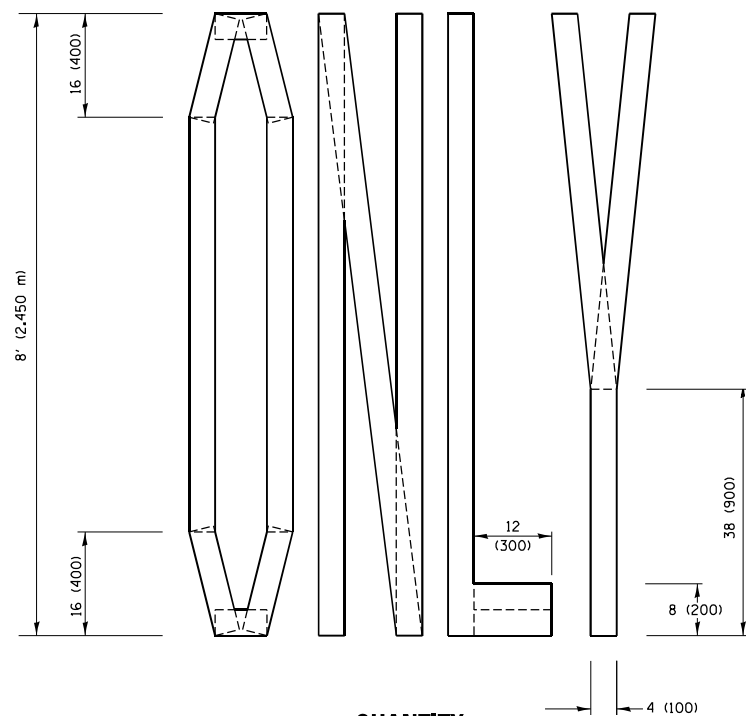
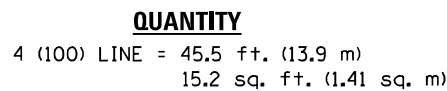
FIGURE 2



DETAIL A

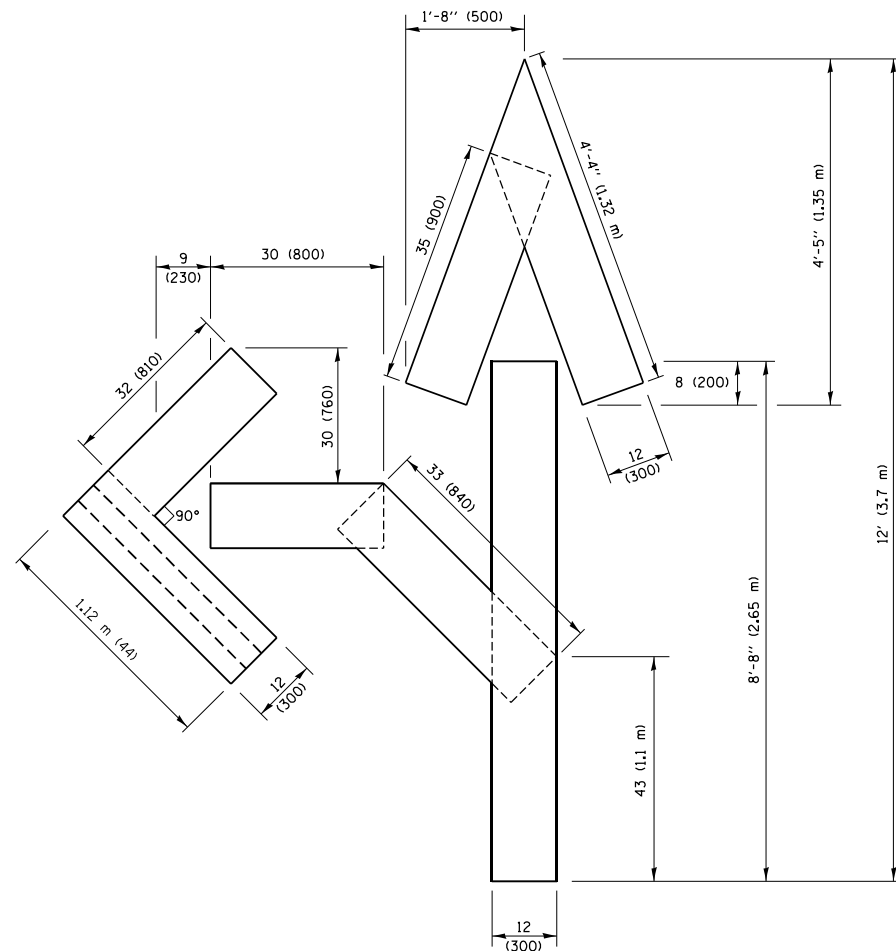
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)	F.A. P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\JL084EBIDINTEG\Illinois.gov\PI\DOT\Documents\IDOT Offices\District 1\Projects\District 1\ADDData\CH\HOUSEH\10-07-95		REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 07-01-13			344	2025-2069-RS	LAKE	50	46	
Default	PLOT SCALE = 50.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16			TC-14		CONTRACT NO.		80B50	
	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -			ILLINOIS FED. AID PROJECT					



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

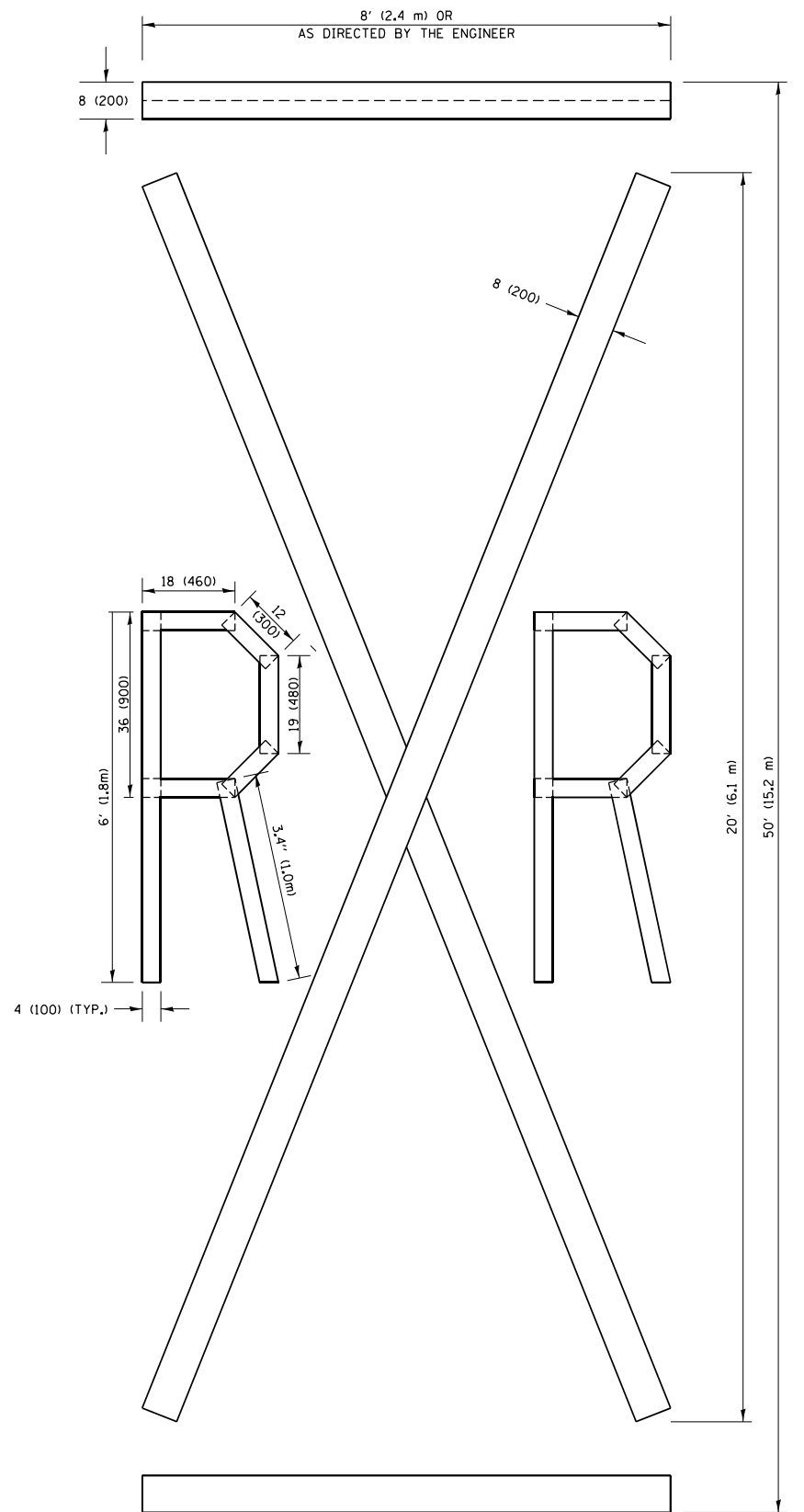


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED
IN LINEAR FEET OF 4" LINES TO MATCH THE
4" TEMPORARY TAPE PAY ITEM AND REPRESENTS
THE TOTAL QUANTITY OF 4" TAPE REQUIRED.

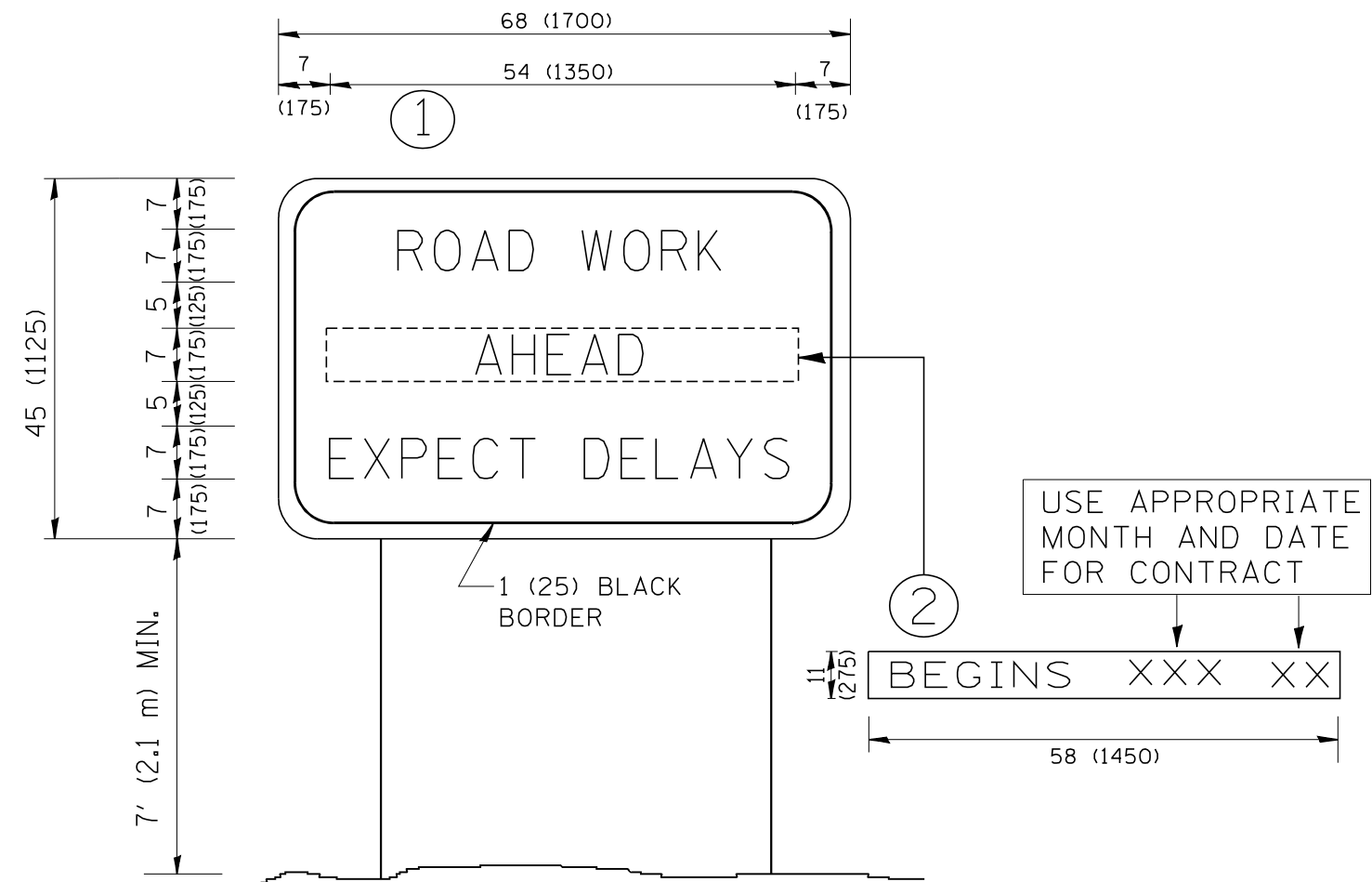


QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters)
unless otherwise shown.

FILE NAME =	USER NAME = footejm	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pww\ill046BIDINTEG.allinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\CAD\DATA\CAD sheets\tc16.dgn		REVISED - E. GOMEZ 08-28-00	REVISED - E. GOMEZ 08-28-00			344	2025-2069-RS	LAKE	50	47
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	REVISED - A. SCHUETZE 09-15-16			TC-16		CONTRACT NO. 80B50		
PLOT DATE = 9/15/2016	DATE = 09-18-94					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



NOTES:

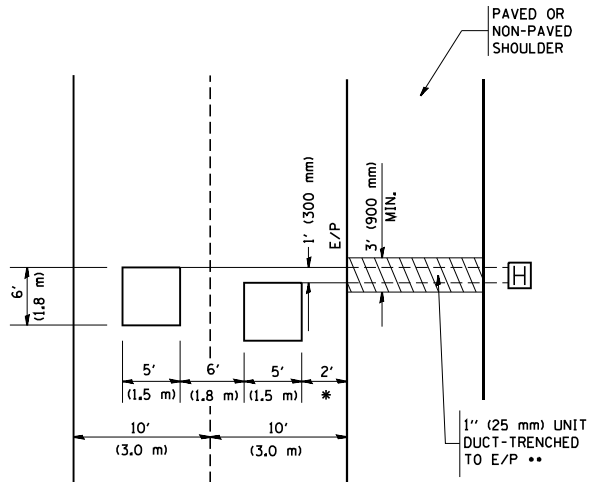
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = geglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. MIRS 12-11-97					344	2025-2069-RS	LAKE	50	48
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99					TC-22		CONTRACT NO.	80B50	
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT
NOTE WHICH SHOULD EQUAL
3' (900 mm) X WIDTH OF
PAVED SHOULDER.



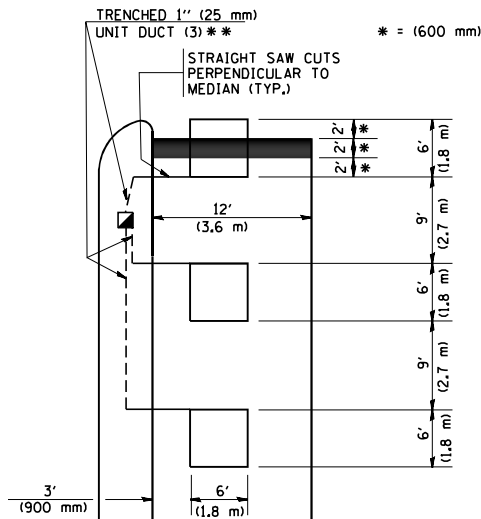
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.

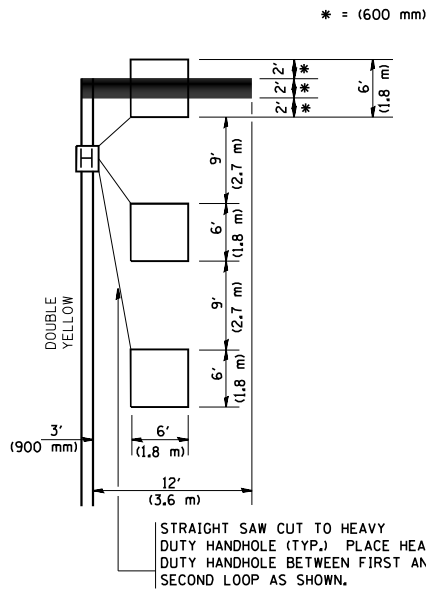


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

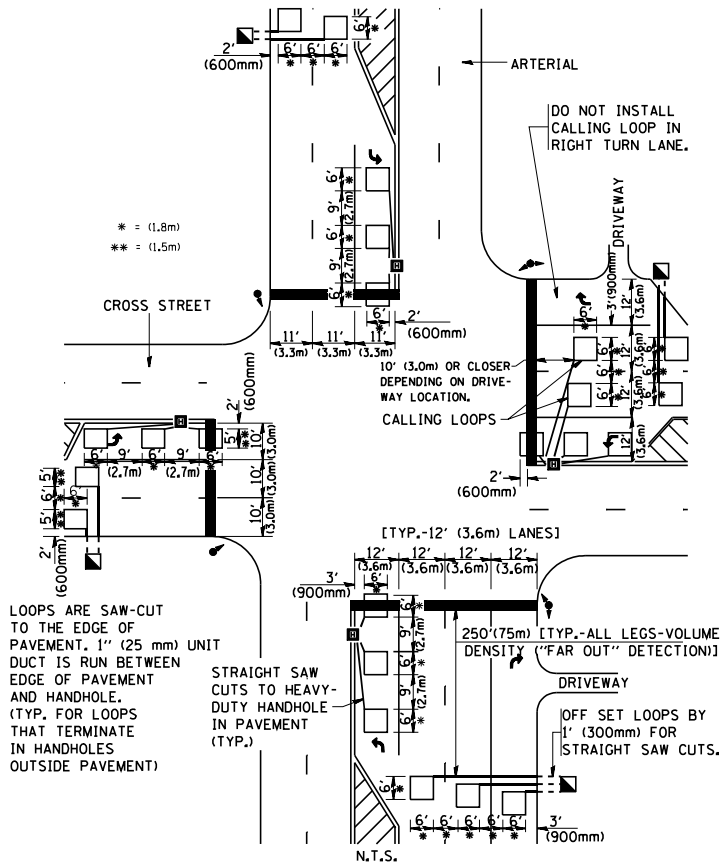
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



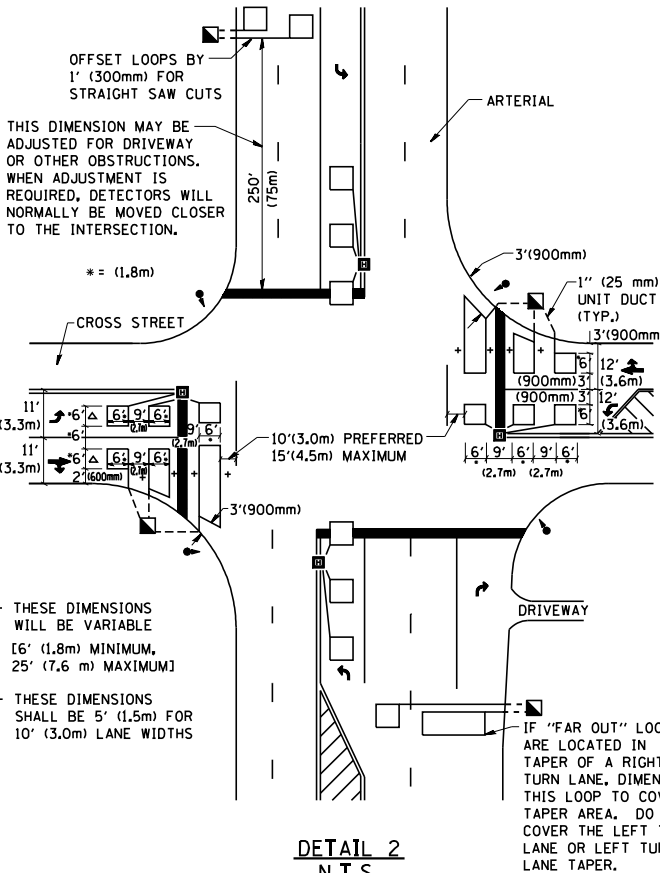
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME = W:\diststd\22x34\ts07.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING				F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						344	2025-2069-RS	LAKE	50	50
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - R.K.F.	REVISED -						TS-07		CONTRACT NO.		80B50
	PLOT DATE = 1/4/2008	DATE -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
					SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.			