STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED WITHIN: CITY OF LOCKPORT

TRAFFIC DATA

0

0

0

0

2019 ADT - 13,600 VPD POSTED SPEED LIMIT - 30 TO 35 MPH OTHER PRINCIPAL ARTERIAL

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 351: IL 7 (9TH STREET)

WEST OF CANAL STREET TO 0.1 MILES EAST OF READ STREET **SECTION 2021–035–RS** PROJECT NHPP-JUB4(706) **SMART OVERLAY, ADA IMPROVEMENTS**

> WILL COUNTY C-91-124-21

R 10 E PROJECT BEGINS STA. 13 + 14 LOCATION MAP RENWICK RO OCKPOR PROJECT ENDS STA. 93 + 40STATEVILLE RO. OMISSION STA 41 + 41 TO CREST HILI STA 80 + 08 OMISSION STA. 15+84 TO STA 21+94

> GROSS LENGTH = 8026 FT. = 1.52 MILE NET LENGTH = 3549 FT. = 0.67 MILE

LOCKPORT TOWNSHIP

CONTRACT NO. 62N51

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS. THE AROVE SCALES MAY BE USED.

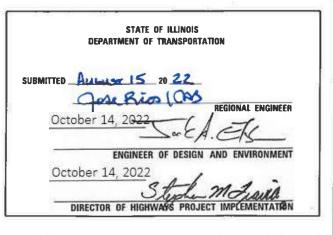
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432 PROJECT MANAGER: FAWAD AQUEEL

WILL 2021-035-R5 ILLINOIS CONTRACT NO. 62N51

D-91-101-21





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

IN	DEX OF SHEETS	LIST OF	STATE STANDARDS CONT.		GENERAL NOTES CONTINUE
SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION	9)	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.
1	COVER SHEET	604001-05	FRAME AND LIDS, TYPE 1	10)	BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD
2	INDEX OF SHEETS, STANDARDS, GENERAL NOTES AND COMMITMENTS	606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER		FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER SO THAT THESE LOCATIONS CAN BE
3-6	SUMMARY OF QUANTITIES	630001-12	STEEL PLATE BEAM GUARDRAIL		RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
7	SCHEDULE OF QUANTITIES	701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm)) 11)	THE CONTRACTOR SHALL CONTACT KALPANA KAHHAN-HOSADURGA, THE DISTRICT
8-9	TYPICAL SECTIONS	,01000	FROM PAVEMENT EDGE	, ,	ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK
10-12	ROADWAY AND PAVEMENT MARKING PLANS	701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY	12)	THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER,
13	DRAINAGE IMPROVEMENT PLAN	701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS	12)	ERIC CAMPOS AT ERIC.CAMPOS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS
14-20	DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)	701311-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm)		PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
21	DISTRICT 1 - MAST ARM MOUNTED STREET NAME SIGNS (TS-02)	701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED	13)	DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS
22-27	DETECTOR LOOP PLANS	701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE		(SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
28-29	PEDESTRIAN RAMP DETAILS	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION	14)	PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
30	ADA DETAIL FOR DEPRESSED CORNER CURB RAMPS (PD-05)	701801-06	SIDEWALK, CORNER OR SIDEWALK CLOSURE	15)	ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD
31	DRIVEWAY DETAIL - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER GREATER OR EQUAL TO 15' (4.5 m) (BD-01)	701901-08	TRAFFIC CONTROL DEVICES	13)	BY THE ENGINEER.
32	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)	725001-01	OBJECT AND TERMINAL MARKERS	16)	LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND
33	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	780001-05	TYPICAL PAVEMENT MARKINGS		REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
34	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT	17)	DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED
35	BUTT JOINT AND HMA TAPER DETAILS (BD-32)		MARKERS		IN THE FIELD BY THE ENGINEER.
36	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)	782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS	18)	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 KMH) OR LESS AND 1 INCH
37	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	886001-01 886006-01	DETECTOR LOOP INSTALLATIONS TYPICAL LAYOUT FOR DETECTOR LOOPS		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
38	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)				MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
39	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	<u>GEN</u>	NERAL NOTES	19)	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.
40	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)	1) BEFORE ST	TARTING ANY EXCAVATION, THE CONTRACTOR SHALL	2.0	
41	ARTERIAL ROAD INFORMATION SIGN (TC-22)		I.E." AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF ECTRIC, TELEPHONE AND GAS FACILITIES.	20)	THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT
42	DRIVEWAY ENTRANCE SIGNING (TC-26)	(48 HOUR	NOTIFICATION IS REQUIRED).	21)	THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIME DURING
43	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)		RACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES ITY COMPANIES AND THE CITY OF LOCKPORT.		CONSTRUCTION.
<u>C</u>	OMMITMENTS	3) THE CONTE	RACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR CE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION DEPARTMENT.	22)	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
1) THERE	ADE NO COMMITMENTS ON THIS PROJECT			23)	EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE
1) INEKE	ARE NO COMMITMENTS ON THIS PROJECT	,	CALE PLANS FOR CONSTRUCTION DIMENSIONS.		ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE
LICT	E CTATE CTANDARDS	,	VAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IT PRICE PER FOOT FOR "GUARDRAIL REMOVAL"		PAY ITEM HAS BEEN PROVIDED.
LIST O	F STATE STANDARDS		OOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB ER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN.	24)	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.
STANDARD NO	. DESCRIPTION		SISTIONS SHALL BE PAID FOR AT THE CONTRAT UNIT PRICE PROPOSED ITEM OF WORK SPECIFIED.	25)	ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF CURB OR DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS	,	MENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS TED BY MILLING AND RESURFACING OPERATIONS ON SIDE		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
424021-06	DEPRESSED CORNER FOR SIDEWALKS		ND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.		CONSIDERED AS INCIDENTAL.
442201-03	CLASS C AND D PATCHES	·	O SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE	26)	THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY OR ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION		OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE D AT NO COST TO THE DEPARTMENT.		AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE
602001-02	CATCH BASIN TYPE A				ENGINEER.

MODEL: Default

JSER NAME = Nicholas.Babul

PLOT SCALE = 100.0000 / in.

PLOT DATE = 8/25/2022

DESIGNED -

CHECKED

DRAWN

DATE

REVISED

REVISED

REVISED

REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES AND COMMITMENTS

SHEET 1 OF 1 SHEETS STA. TO STA.

 F.A.P. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

 351
 2021-035-RS
 WILL
 43
 2

 CONTRACT
 NO. 62-NS1

	SUMMARY OF QUANTITIES			000-		NSTRUCTIO	N TYPE CO	DDE	4	SUMMARY	OF QUANTITIES			0005		NSTRUCTION	TYPE COD	<u>:</u>	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES RURAL	OOO5 80% FED 20% STATE ROADWAY	0005 100% STATE	OO21 80% FED 20% STATE TRAFFIC SIGNAL			CODE NO		ITEM	UNIT	TOTAL QUANTITIES RURAL	OOO5 80% FED 20% STATE ROADWAY	0005 100% STATE	OO21 80% FED 20% STATE TRAFFIC SIGNAL			
20200100	EARTH EXCAVATION	CU YD	35	35					40604060	HOT-MIX ASPHAL	T SURFACE COURSE, IL-9.5,	TON	2	2					
										MIX "D", N50									
20800150	TRENCH BACKFILL	CU YD	27	27															
									40605026	POLYMERIZED HO	T-MIX ASPHALT SURFACE	TON	1774	1774					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	152	152						·	MATRIX ASPHALT, 9.5, MIX								
										"F", N80									
25200110	SODDING, SALT TOLERANT	SO YD	152	152							_								
25.200.200	CURRI EMPATAL WATER INC		7.0	7.0					42001300	PROTECTIVE COA	1	SO YD	246	246					
25200200	SUPPLEMENTAL WATERING	UNIT	3. 0	3. 0					42400200	DODTI AND CENER	T CONCRETE SIDEWALK 5	SO FT	936	936					
28000400	PERIMETER EROSION BARRIER	F00T	152	152					42400200		I CONCRETE SIDEWALK 5	50 F1	326	336					
28000400	PERIMETER ERUSION BARRIER	FOOT	152	152						INCH									
28100105	STONE RIPRAP, CLASS A3	SO YD	5	5					42400800	DETECTABLE WAR	NINGS	SO FT	120	120					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	15	15					44000156	HOT-MIX ASPHAL	T SURFACE REMOVAL. 1	SO YD	18102	18102					
										3/4"									
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8146	8146															
									44000200	DRIVEWAY PAVEN	ENT REMOVAL	SQ YD	15	15					
40600370	LONGITUDINAL JOINT SEALANT	FOOT	11979	11979															
									44000600	SIDEWALK REMOV	AL	SO FT	1180	1180					
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	28	28															
	FLANGEWAYS								44002212	HOT-MIX ASPHAL	T REMOVAL OVER PATCHES.	SQ YD	391	391					
										3"									
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	348	348															
	JOINT								44201753	CLASS D PATCHE	S. TYPE II. 9 INCH	SO YD	80	80					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER	TON	66	66					44201757	CLASS D PATCHE	S, TYPE III, 9 INCH	SO YD	175	175					
	PATCHES																		
									44201759	CLASS D PATCHE	S. TYPE IV. 9 INCH	SO YD	100	100					
																	* = SPEC - △ = NON- WORK	IALTY IT PARTICIP (100% S	PATING
ILE NAME =	USER NAME = Michalas.Babul ###################################	SIGNED -		REVISED REVISED	-			STATE OF	ILLINOIS		IL 7 (9TH STREET) (WEST C			READ ST.)	F.A.P. RTE.	SECTION			OTAL SHE
,	PLOT SCALE = 100,0000 '/ in. CH	HECKED -		REVISED REVISED	-		DE	PARTMENT OF T			SUMMAI CALE: SHEET NO. 1 OF 4 S	RY OF QUAN		O STA.	351	2021-035-	СО	NTRACT NO	43 3 O. 62N5

TOTAL 80% FED 80% FED	OOO5 100% STATE 100% STATE TRAFFIC SIGNAL
SECTIONS 18" FOOT POSTS FOUT POSTS FOOT POSTS FOOT POSTS FOOT POSTS FOOT POSTS FO	
# 63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 EACH 2 2 2 (SPECIAL) TANGENT	
CSPECIAL) TANGENT CSPE	
STORM SEWER REMOVAL 18" FOOT 80 80 80	
# 63200310 GUARDRAIL REMOVAL FOOT 125 125 50200105 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE EACH 1 1 1	
1 FRAME, OPEN LID	
\$0250200 CATCH BASINS TO BE ADJUSTED EACH 5 5 \$ ** 66900530 SOIL DISPOSAL ANALYSIS EACH 2 2 2 ** \$0252800 CATCH BASINS TO BE RECONSTRUCTED EACH 6 6 ** 66901001 REGULATED SUBSTANCES PRE-CONSTRUCTION L SUM 1 1 1 \$** \$0257900 MANHOLES TO BE RECONSTRUCTED EACH 3 3 3 ** 66901003 REGULATED SUBSTANCES FINAL CONSTRUCTION L SUM 1 1 1	
# 66901001 REGULATED SUBSTANCES PRE-CONSTRUCTION L SUM 1 1 1	
PLAN	
60257900 MANHOLES TO BE RECONSTRUCTED EACH 3 3 3	
* 66901003 REGULATED SUBSTANCES FINAL CONSTRUCTION L SUM 1 1	
60300305 FRAMES AND LIDS TO BE ADJUSTED EACH 3 3 3 ** 66901006 REGULATED SUBSTANCES MONITORING CAL DA 4 4	
60406100 FRAMES AND LIDS, TYPE 1, CLOSED LID EACH 3 3 3 67100100 MOBILIZATION L SUM 1 1	
60500080 REMOVING CATCH BASINS TO MAINTAIN FLOW EACH 1 1 1 70102620 TRAFFIC CONTROL AND PROTECTION, L SUM 1 1	
STANDARD 701501	
60603800 COMBINATION CONCRETE CURB AND GUTTER, FOOT 65 65	
TYPE B-6.12 70102622 TRAFFIC CONTROL AND PROTECTION, L SUM 1 1 STANDARD 701502 STANDARD 701502 1	
60605000 COMBINATION CONCRETE CURB AND GUTTER, FOOT 125 125	
TYPE B-6.24 70102635 TRAFFIC CONTROL AND PROTECTION, L SUM 1 1 STANDARD 701701	W = 600011 TV 17512
	# = SPECIALTY ITEMS
ILE NAME = USER NAME = NICTOGES.Babul DESIGNED - REVISED - WXVIdot-pur.bentley.com/PNIDOT\Occurrents\VDOT\Offices\VDIstrict\VProjects\VDIOI2\VcADData\vDot\VDOT\Offices\VDIstrict\VProjects\VDIOI2\VcADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VcADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VcADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VcADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VcADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VcADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VCADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VCADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VCADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VCADData\vDot\VDOT\Offices\VDIStrict\VProjects\VDIOI2\VCADData\vDot\VDOT\Offices\VDIOI2\VCADData\vDot\VDOT\Offices\VDIOI2\VCADData\vDot\VDOT\Offices\VDOT\Of	F.A.P. SECTION COUNTY TOTAL SH

	SUMMARY OF QUANTITIES			000-	CONSTRUCTIO	N TYPE C	ODE			SUMMARY OF QUANTITIES			000-			N TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES RURAL	OOO5 80% FED 20% STATE ROADWAY	0005 0021 80% FED 100% STATE 20% STATE TRAFFIC SIGNAL				CODE NO	ITEM	UNIT	TOTAL QUANTITIES RURAL	OOO5 80% FED 20% STATE ROADWAY	0005 100% STATE	OO21 80% FED 20% STATE TRAFFIC SIGNAL	
70102640	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1				*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	10273	10273			
	STANDARD 701801									4"						
70300100	SHORT TERM PAVEMENT MARKING	FOOT	13613	13613				*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3663	3663			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	6494	6494												
								*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	441	441			
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND	SO FT	521	521						12"						
	SYMBOLS - PAINT															
								*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	326	326			
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"-	FOOT	10273	10273						24"						
								*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	197	197			
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"-	FOOT	3663	3663												
	PAINT							*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4	4			
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"-	FOOT	441	441					78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	197	197			
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"-	FOOT	326	326					78300202	PAVEMENT MARKING REMOVAL - WATER	SQ FT	6855	6855			
	PAINT									BLASTING						
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" -	FOOT	8992	8992				*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	72			72	
	TYPE III TAPE									2" DIA.						
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4				*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	3			3	
										INSTALLATION						
78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	521	521												
	LETTERS AND SYMBOLS							*	87301215	ELECTRIC CABLE IN CONDUIT. SIGNAL NO.	FOOT	470			470	
										14 2C						# = SPECIALTY ITEMS — △ = NON-PARTICIPATING WORK (100% STATE)
ILE NAME = w:\\ildot-pw.bentley.com	n:PWIDOT\Documents\IDOT Offices\District I\Projects\DIIOI2\CADData\Design\DIIOI2I-stn\-S00.agr\DR	SIGNED - RAWN -	1	REVISED REVISED REVISED	-			ATE OF II		IL 7 (9TH STREET) (WEST C	DF CANAL ST. RY OF QUANT		READ ST.)	F.A.P. RTE. 351	SECTIO 2021-035	5-RS WILL 43
		TE -		REVISED	-	ט	CPAKIWE	INI UF IR	ANSPORTA [*]	SCALE: SHEET NO. 3 OF 4			D STA.			CONTRACT NO. 62N5

	SUMMARY OF QUANTITIES			0005 0005	NSTRUCTION TYPE 0021	CODE		SUMMARY OF QUANTITIES			0005	0005		N TYPE CODE	Т	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES RURAL	80% FED 20% STATE ROADWAY	80% FED		CODE NO	ITEM	UNIT	TOTAL QUANTITIES RURAL	80% FED	100% STATE	OO21 80% FED 20% STATE TRAFFIC SIGNAL			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	100		100		x6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	6					
	GROUNDING CONDUCTOR, NO. 6 1C					*	x8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	24			24			
87900200	DRILL EXISTING HANDHOLE	EACH	8		8											
						*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH	FOOT	32			32			
88600100	DETECTOR LOOP, TYPE I	FOOT	1635		1635			DIAMETER								
39502200	MODIFY EXISTING CONTROLLER	EACH	1		1		Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	300	300					_
84302200	MODIFI EXISTING CONTROLLER	EACH	1				20004362	REMOVAL AND REPLACEMENT	1001	300	300					_
89502350	REMOVE AND REINSTALL ELECTRIC CABLE	FOOT	85		85											
	FROM CONDUIT					Δ	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	26		26				_
																_
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3		3		Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	333. 2	333. 2					
	EUDIFMENT					*	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	1			1			
89502376	REBUILD EXISTING HANDHOLE	EACH	4		4			1								_
																_
x0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1			X4240200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (COLORED)	SO FT	264	264					_
X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	8		8				1							_
						Ø	Z0076600	TRAINEES	HOURS	500	500					
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND	FOOT	20	20		Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500					_
	FEET															_
VEE 27000	CTODA CEMEDO TO DE QUEATRO 10"	5007	700													_
x5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	300	300												_
x6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	40	40												
	(SPECIAL)													W - 6252		
														# = SPECIA 	RTICIPA 100% ST	TAT
ILE NAME = w:\Vidot-pw.bentley.com	PWIDOT\Documents\DOT Offices\District NProjects\DIIOI2NCADData\Design\DIIOI2I-stri-SOO.dg/DF					STATE OF IL		IL 7 (9TH STREET) (WEST OF SUMMARY	CANAL ST.		READ ST.)	F.A.P. RTE. 351	SECTIO 2021-035	5-RS WIL	L 43	AL ETS 3
w:\VIdat-pw.bentley.com	PLOT SCALE = 100,0000 '/ In. CH			REVISED - REVISED - REVISED -		STATE OF IL DEPARTMENT OF TRA		CUMANAADV	OF QUANT	ITIES	O STA.	351		S-RS WIL CONT LINOIS FED. AID PROJEC	RAC	43

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	81028200	85000200	87301215	87301900	87900200	88600100	89502200	89502350	89502375	89502376	X1400378	X8760200	X8780012	Z0033044	
TRAFFIC SIGNAL IMPROVEMENT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	DRILL EXISTING HANDHOLE	DETECTOR LOOP, TYPE I	MODIFY EXISTING CONTROLLER	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	REBUILD EXISTING HANDHOLE	PEDESTRIAN SIGNAL POST, 5 FT.	ACCESSIBLE PEDESTRIAN SIGNALS	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH COLORED
	FOOT	EACH	FOOT	FOOT	EACH	FOOT	EACH	FOOT	EACH	EACH	EACH	EACH	FOOT	EACH	SQ FT
IL 7 @ Hamilton St	52	1	470	70.0	6	680	1	35	1	3	6	8	24	1	20
IL 7 @ Madison St	0	1	0	0.0	0	405	0	0	1	0	0	8	0	0	0
IL 7 @ Loch Ln / Read St	20	1	0	30.0	2	550	0	50	1	1	2	8	8	0	0
Total	72	3	470	100.0	8	1635	1	85	3	4	8	24	32	1	20

	81028200	85000200	87301215	87301900	87900200	88600100	89502200	89502350	89502375	89502376	X1400378	X8760200	X8780012	Z0033044	
TRAFFIC SIGNAL IMPROVEMENT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 20	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	DRILL EXISTING HANDHOLE	DETECTOR LOOP, TYPE I	MODIFY EXISTING CONTROLLER	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	REBUILD EXISTING HANDHOLE	PEDESTRIAN SIGNAL POST, 5 FT.	ACCESSIBLE PEDESTRIAN SIGNALS	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH COLORED
	FOOT	EACH	FOOT	FOOT	EACH	FOOT	EACH	FOOT	EACH	EACH	EACH	EACH	FOOT	EACH	SQ FT
IL 7 @ Hamilton St	52	1	470	70.0	6	680	1	35	1	3	6	8	24	1	20
IL 7 @ Madison St	0	1	0	0.0	0	405	0	0	1	0	0	8	0	0	0

	20200100	21101615	25200110	25200200	42001300	42400200	42400800	44000600	60250200	60300305	89502376	Z0004562	
ADA IMPROVEMENT	EARTH EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"	SODDING, SALT TOLERANT	SUPPLEMENTAL WATERING	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNINGS	SIDEWALK REMOVAL	CATCH BASINS TO BE ADJUSTED	FRAMES AND LIDS TO BE ADJUSTED	REBUILD EXISTING HANDHOLE	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH COLORED
	CUYD	SQ YD	SQ YD	UNIT	SQ YD	SQ FT	SQ FT	SQ FT	EACH	EACH	EVCH	FOOT	SQ FT
IL 7 @ Loch Ln NE	3	9	9	0.1	37	295	23	295	0	0	0	17	0
IL 7 @ Read St SE	2	14	14	0.2	24	178	21	178	0	2	0	18	0
IL 7 @ Hamilton St NE	5	25	25	0.4	57	463	37	463	0	0	1	20	0
IL 7 @ Hamilton St NW	3	0	0	0.0	33	0	39	0	1	0	1	20	244
Total	13	48	48	0.7	151	936	120	936	1	2	2	75	244

28000400

PERIMETER EROSION BARRIER

FOOT

152

152

STONE RIPRAP, CLASS

SQ YD

5

HOT-MIX ASPHALT B COURSE, 8"

SQ YD

15

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50

TON

2

DRIVEWAY PAVEMENT

SQ YD

15

15

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

REMOVAL

28100105 | 35501316 | 40604060 | 44000200 | 44201759 | 50104400 | 550A0090 | 55100900 | 54213663 | 60200105 | 60500080 | X4400501 | Z0004562

s, CLASS A, 18"

STORM SEWERS,

FOOT

72

CONCRETE HEADWALL

EACH

CLASS D PATCHES, T IV, 9 INCH

SQ YD

30

STORM SEWER REMOVAL

FOOT

80

80

COMBINATION CURB AND TREPLACEMENT LESS THAN GONE EQUAL TO 10 FEET COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

FOOT

25

SECTION

2021-035-RS

43 7

CONTRACT NO. 62N51

WILL

FOOT

10

10

CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 1 FRAME,
OPEN LID

EACH

IL 7 (9TH STREET) (WEST OF CANAL ST. TO EAST OF READ ST.)

SCHEDULE OF QUANTITIES

SHEET 1 OF SHEETS STA.

PRECAST REINFORGED CONCRETE FLARED END SECTIONS 18"

EACH

EMOVING CATCH BASINS TO MAINTAIN FLOW

EACH

NOTE: THE REBUILD EXISTING HANDHOLE QUANTITY FOR ADA IMPROVEMENT OVERLAP WITH THE TRAFFIC SIGNAL IMPROVEMENT QUANTITY

SUPPLEMENTAL WATERING

UNIT

0.8

0.8

REVISED

REVISED

REVISED

20800150 21101615 25200110 25200200

TOPSOIL FURNISH AND PLACE, 4"

SQ YD

54

DESIGNED -

DRAWN

DATE

CHECKED

CU YD

27

DRAINAGE IMPROVEMENT

Total

JSER NAME = Nicholas,Babul

PLOT SCALE = 100.0000 / in

PLOT DATE = 8/25/2022

STA 81+85 LT

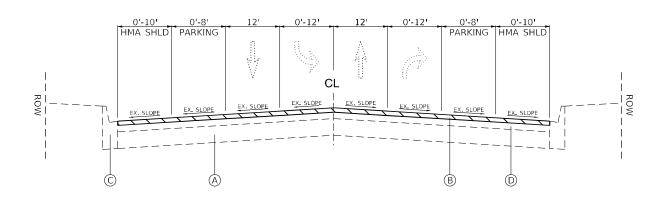
DDDING, SALT TOLERAN

SQ YD

54

54

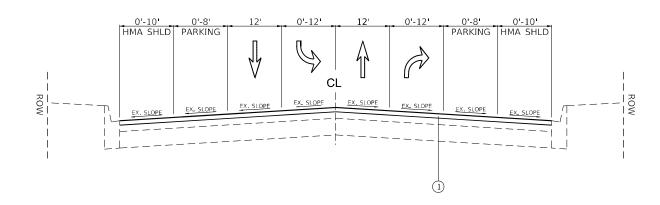
IL7 (9TH STREET)



EXISTING TYPICAL SECTION

STA. 13+13.73 TO STA. 15+83.63 STA. 21+94.51 TO STA. 25+00.00

IL7 (9TH STREET)



PRPOSED TYPICAL SECTION

STA. 13+13.73 TO STA. 15+83.63 STA. 21+94.51 TO STA. 25+00.00

LEGEND - EXISTING:

- (A) CONCRETE PAVEMENT ±9"
- (B) HOT MIX ASPHALT SURFACE REMOVAL 1-3/4"
- © COMBINATION CURB & GUTTER, TYPE B-6.12
- D HOT MIX ASPHALT SURFACE ±3"

LEGEND - PROPOSED:

① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1-3/4"

NOTES:

- 1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING
- 2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE

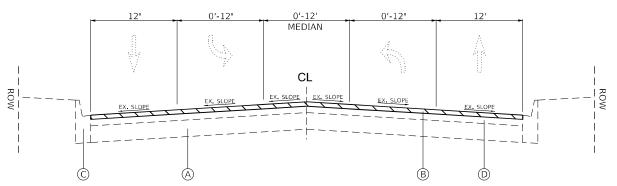
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT
MIXTURE TYPE	AIR VOIDS(%) @ Ndes	PROGRAM (QMP)
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1-3/4"	3.5% @ 80 GYR.	QCP
HOT-MIX ASPHALT DRIVEWAY		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"	4% @ 50 GYR.	QC/QA
HOT-MIX ASPHALT BINDER COURSE (HMA BINDER IL-19 mm), 8"	4% @ 50 GYR.	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PER	FORMANCE (QCP); PAY F	OR PERFORMANCE (PFP)

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA 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 FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

USER NAME = Nicholas Babul	DESIGNED -	REVISED -			TYPICAL SECTIONS	F	A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS	II 7 /0T			351	2021-035-RS	WILL	43	8
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 7 (9T	TH STREET) (W OF CANAL ST. TO E OF READ ST.)				CONTRAC	T NO. 6:	2N51
PLOT DATE = 9/2/2022	DATE -	REVISED -		SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.			ILLINOIS FED. A	ID PROJECT		

FILE NAME: pw:\\ildot.pw.bentley.com

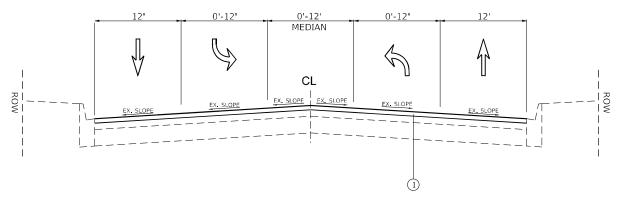
IL7 (9TH STREET)



EXISTING TYPICAL SECTION

STA. 25+00.00 TO STA. 41+40.98

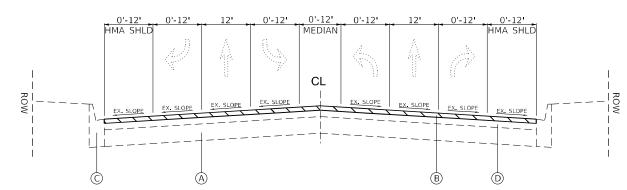
IL7 (9TH STREET)



PRPOSED TYPICAL SECTION

STA. 25+00.00 TO STA. 41+40.98

IL7 (9TH STREET)



LEGEND - EXISTING:

- A CONCRETE PAVEMENT ±9"
- B HOT MIX ASPHALT SURFACE REMOVAL 1-3/4"
- © COMBINATION CURB & GUTTER, TYPE B-6.12
- D HOT MIX ASPHALT SURFACE ±3"

EXISTING TYPICAL SECTION

STA. 80+08.12 TO STA. 93+39.60

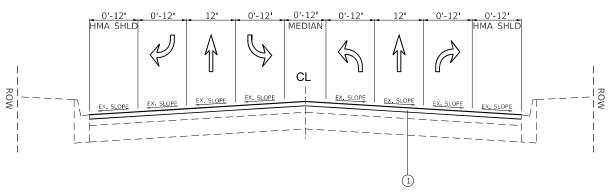
LEGEND - PROPOSED:

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1-3/4"

NOTES:

- 1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING
- THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE

IL7 (9TH STREET)



PRPOSED TYPICAL SECTION

STA. 80+08.12 TO STA. 93+39.60

SER NAME = Nicholas,Babul DESIGNED REVISED DRAWN REVISED CHECKED REVISED

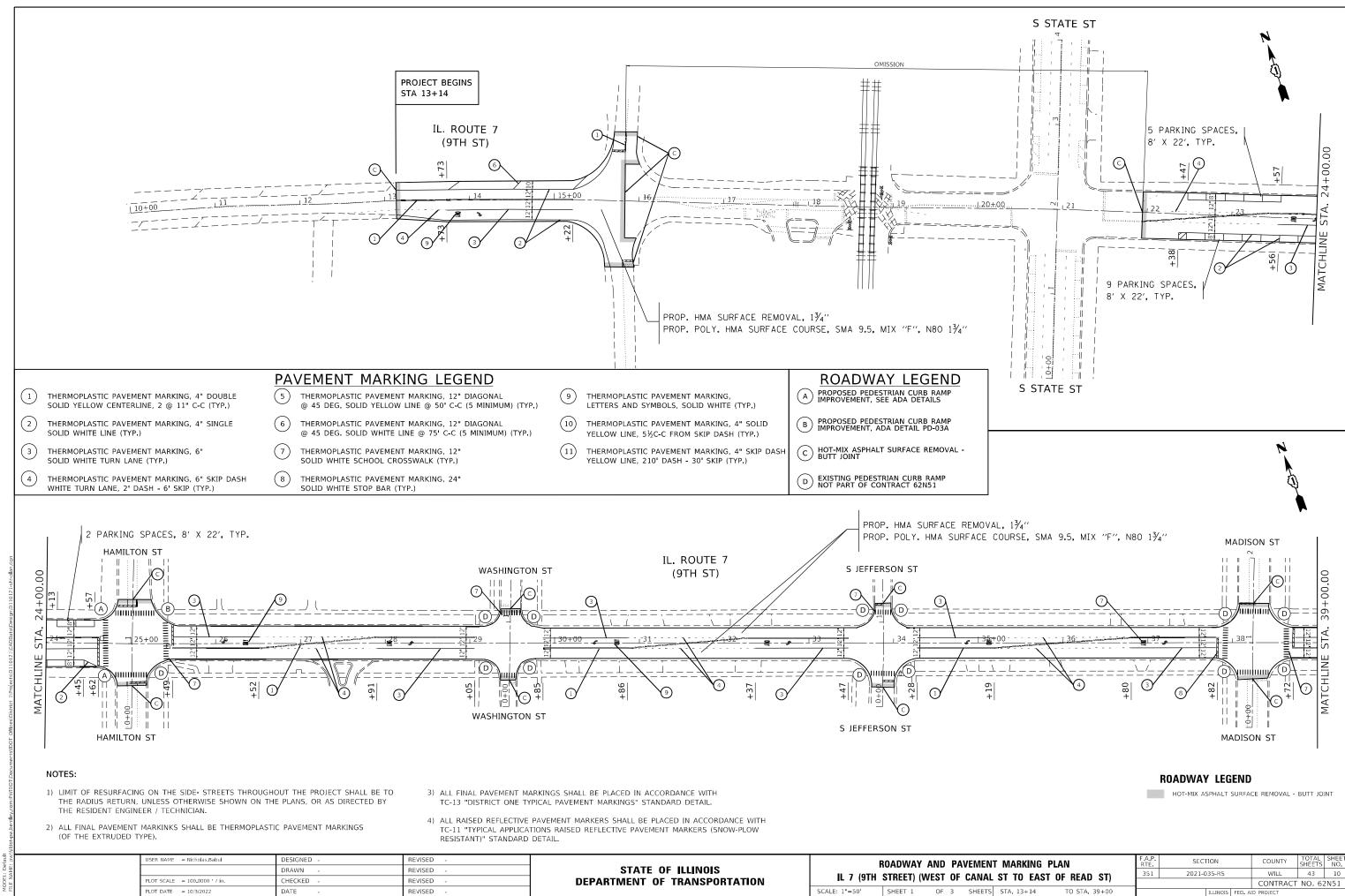
DATE

PLOT DATE = 8/18/2022

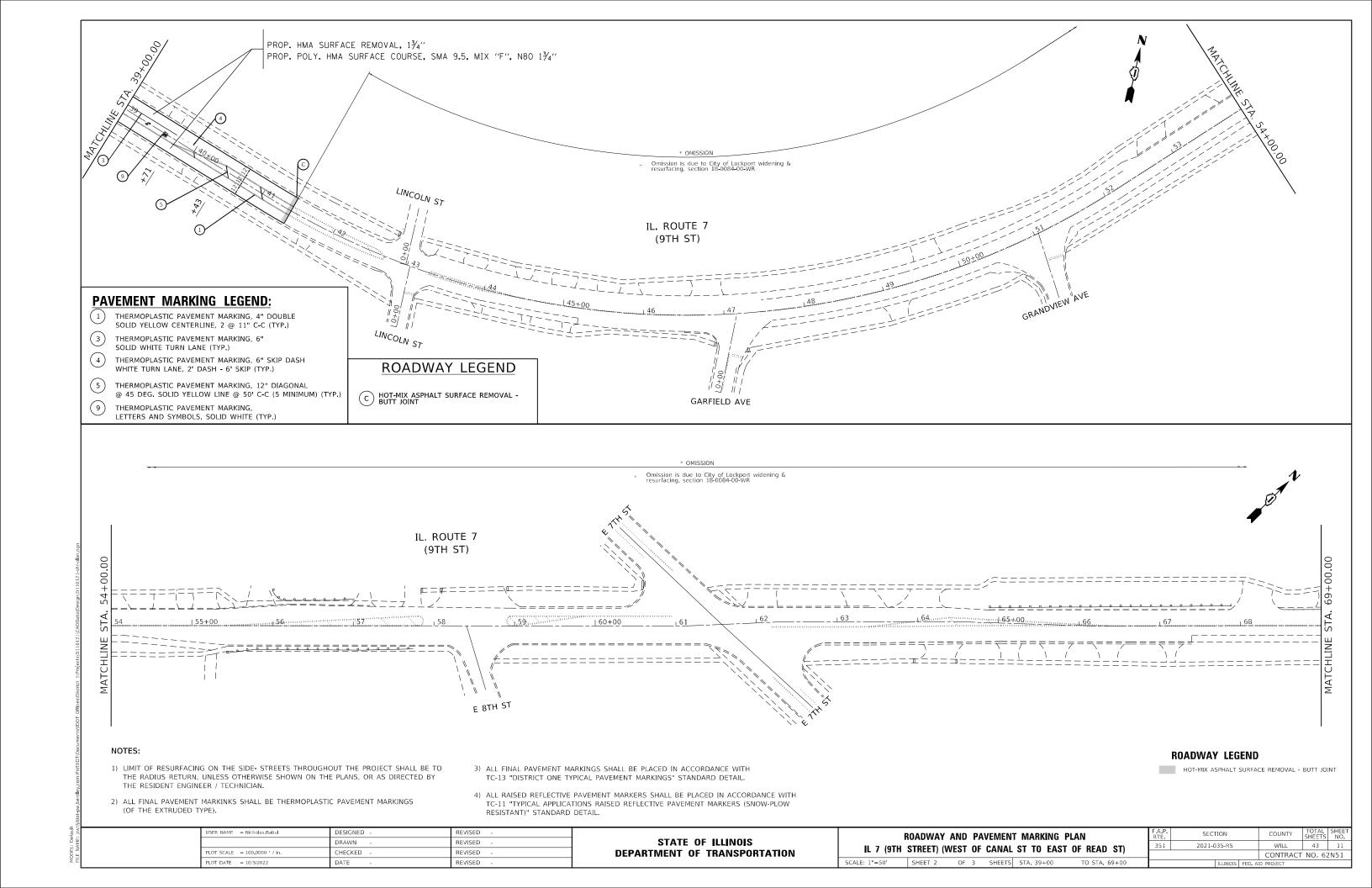
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

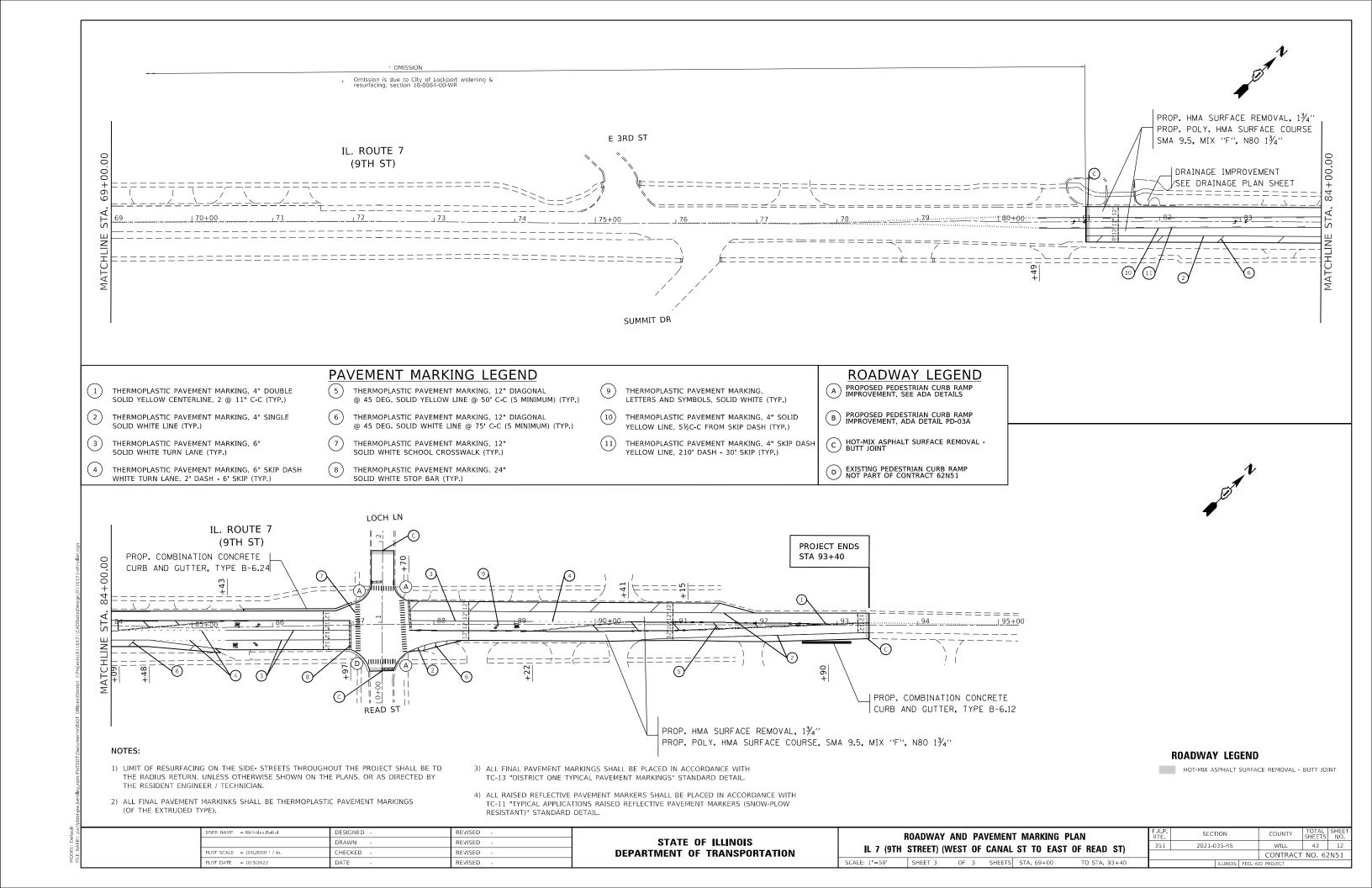
TYPICAL SECTIONS IL 7 (9TH STREET) (W OF CANAL ST. TO E OF READ ST.) SHEET 2 OF 2 SHEETS STA.

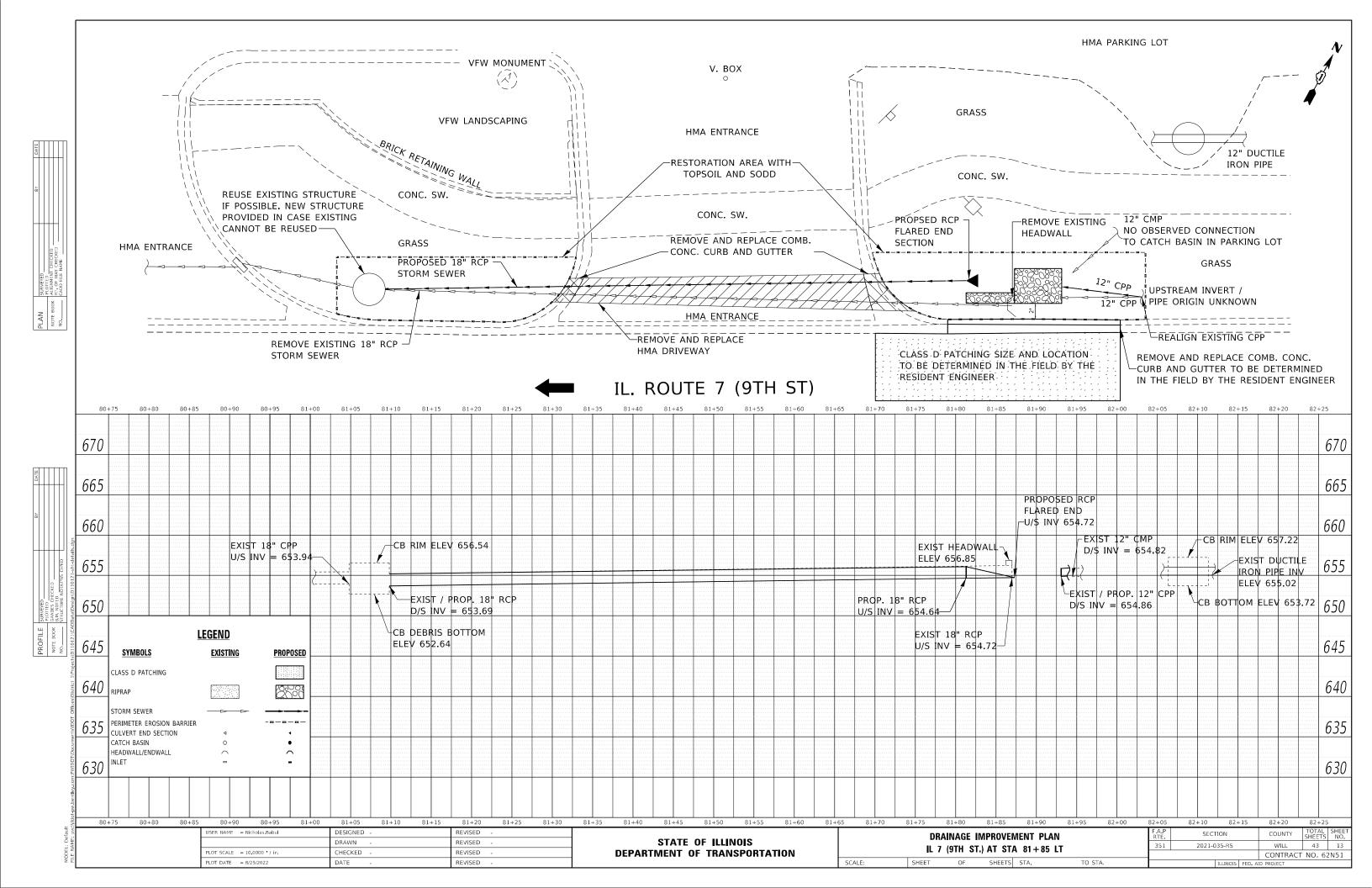
SECTION 2021-035-RS WILL 43 9 CONTRACT NO. 62N51



MODEL - Doffsuit







TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

MOTHER MATERIAL WORKS ASSETS AS THE CONTROLLER WITH ASSETS AS THE CONTROLLER WORK AS THE ASSETS	Second Content Second Second Content Second Conte	<u>TEM</u>	<u>EXISTING</u>	<u>PROPOSED</u>	ITEM	<u>existing</u>	<u>PROPOSED</u>	ITEM	<u>existing</u>	PROPOSED
MATTER MATTER COFFECUER Matter COFFE Matter C	Section Marketic Controller Marketic Controller Marketic Cont	CONTROLLER CABINET	\boxtimes		-SQUARE				R R Y Y	R R Y
MATTER MATTER COFFECUER Matter COFFE Matter C	Section Marketic Controller Marketic Controller Marketic Cont	COMMUNICATION CABINET	ECC	CC						G G
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MACROS ROYAL MAN MACRO ROYAL MACRO ROY	A NUMBER OF STATE AND THE STATE OF STAT	MASTER MASTER CONTROLLER	EMMC	ммс	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE	(a) (b) (c)	
REMOTE PRESENTAL PRODUCTION OF CONTROLLING AND PRODUCTION OF CONTR	REACH PRINCE CONTROL	UNINTERRUPTABLE POWER SUPPLY	4	9	JUNCTION BOX		0	-(P) PROGRAMMABLE SIGNAL HEAD		Y
SAME DETAILATION ARRANGO CROSSING AND TO SET TO SE	REACH PRINCE CONTROL	SERVICE INSTALLATION -(P) POLE MOUNTED	- <u></u> -	- - -P	RAILROAD CANTILEVER MAST ARM	X 0X X	X eX X			4Y 4Y 4Y 4G 4G
MA BOOK CREATE METERS 1	MAIN AND CONTROL TO MAIN AND POLICE MAIN AND CONTROL TO MA				RAILROAD FLASHING SIGNAL	X o X	¥◆¥		P RB	
RALINDAD CONTROLLIS CARRIER ALIANDAD SERVICE CONTROLLIS CARRIER ALIANDAD MAY	MACHINE LOWER LOWER LOWER CONTROLLER CONTROL	-(G) GROUND MOUNTED	$\boxtimes^G\boxtimes^{GM}$	⊠ ^G ⊠ ^{GM}	RAILROAD CROSSING GATE	₹0 ₹>	X•X-	PEDESTRIAN SIGNAL HEAD		•
UNDERSTORMED CARROLLE CARROLL	SUBMERITAND FOR SEASON AND PRODUCTION TO BE RECOVERED TO BE RE	TELEPHONE CONNECTION	ET	Т	RAILROAD CROSSBUCK				F	*
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PEDESTRIAN PUSH BUTTON © © APS © © APS PREFORMED DETECTOR LOOP P P PREFORMED DETECTOR LOOP P P PREFORMED DETECTOR LOOP P P NO. 62,59/125, MM12F SM24F - 24F - NO. 62,59/125, MM12F SM24F - NO. 62,59/125,	PREFORMED DETECTION LOOP PREFORMED DETECTOR SADDAR DETECTION SENSOR RADAR DETECTION SENSOR RADAR DETECTION AMERA SAMPLING (SYSTEM) DETECTOR SENSOR RADAR/VIDEO DETECTION ZONE SAMPLING (SYSTEM) DETECTOR SOME SENSOR SOME SOME SOME SOME SOME SOME SOME SOME	PEDESTRIAN SIGNAL HEAD		-1		ПО			—	—(12F)—
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EMERGENCY VEHICLE LIGHT DETECTOR CONFIMATION BEACON WIRELESS INTERCONNECT WIRELESS ACCESS POINT	WIRELESS INTERCONNECT WIRELESS ACCESS POINT	PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ				-(P) POST		
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DATE - 9/29/2016

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PLOT DATE = 8/19/2022

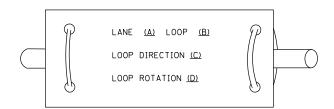
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		DIST	RICT O	NE		F.A RT
STAND	ARD	TRAFFIC	SIGNA	L DESIG	N DETAILS	35
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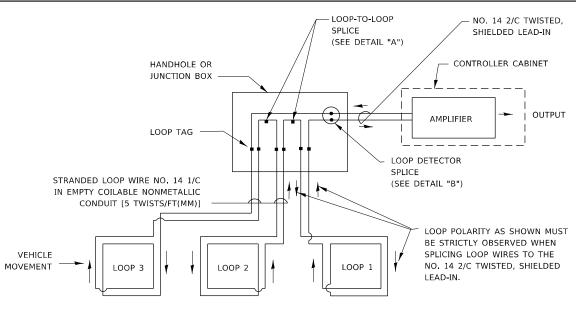
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

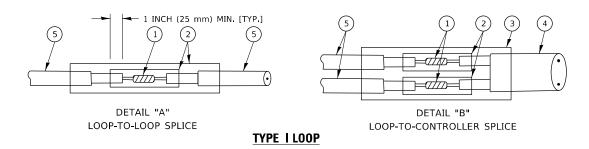


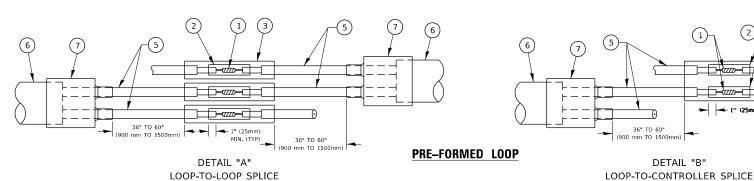
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP
- (6) XL POLYOLEFIN 2 CONDUCTOR
- (7) BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 2 OF 7 SHEETS STA.

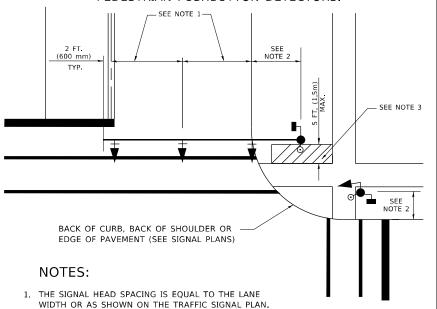
2021-035-RS 43 CONTRACT NO. 62N51

→ 1" (25mm) MIN, (TYP)

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

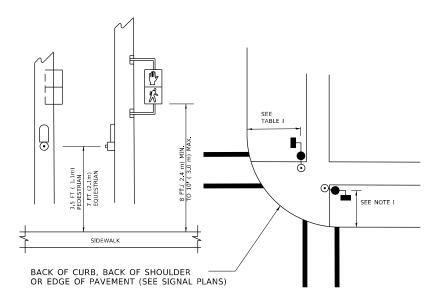
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



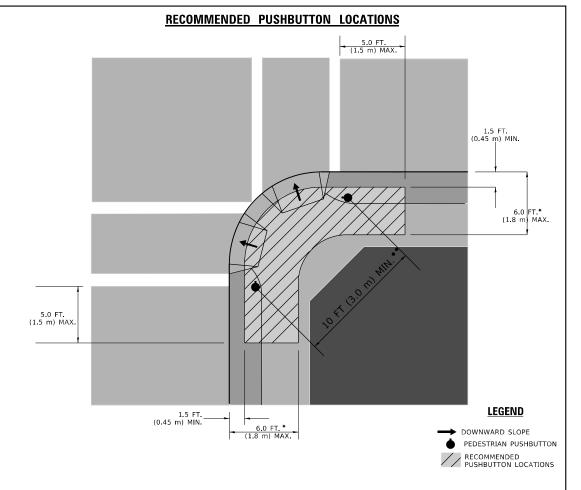
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK,
- THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT,
- THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2, MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

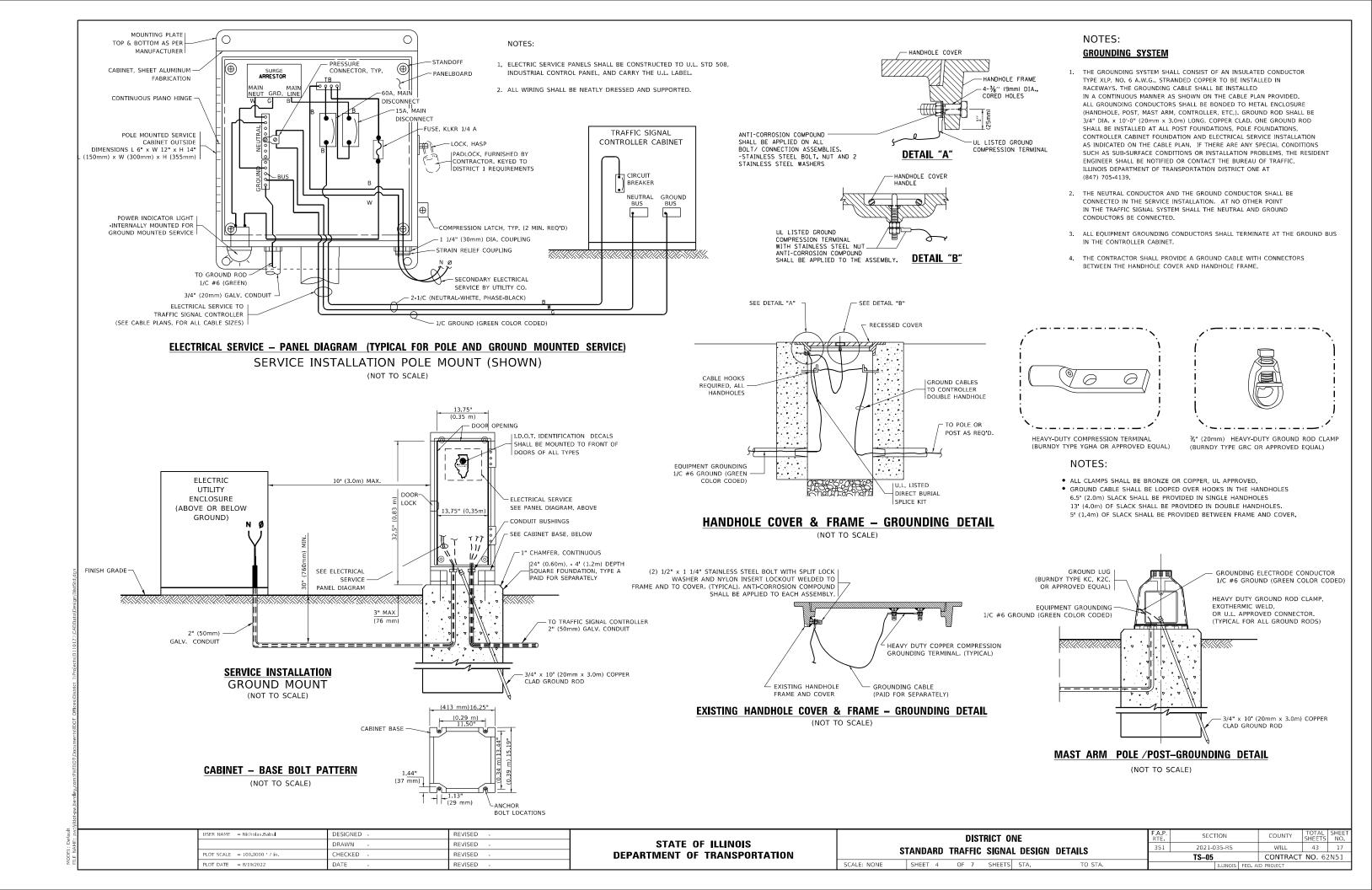
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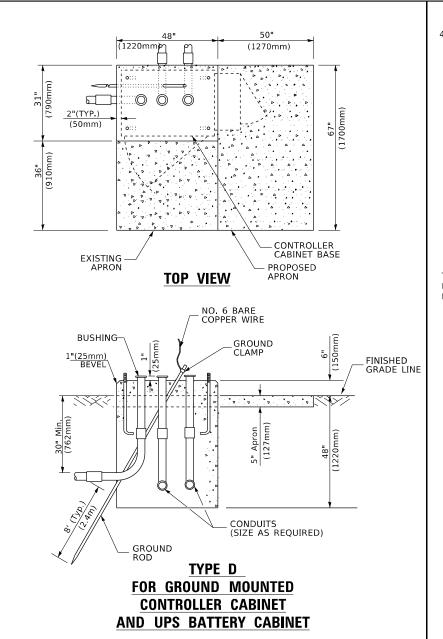
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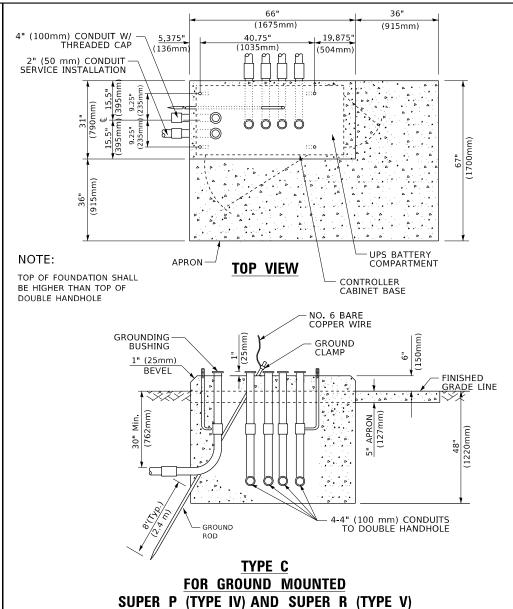
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	351	2021-035-RS	WILL	43	16
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SHEET 3 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

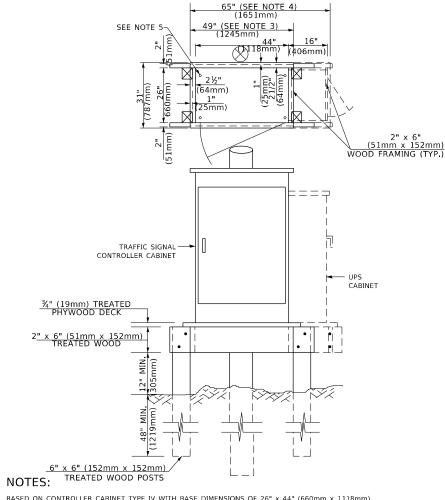
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CONTROLLER CABINETS



- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1,5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6
•	-	

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

CABLE SLACK

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42'' (1060mm)	36" (900mm)	16	8(25)

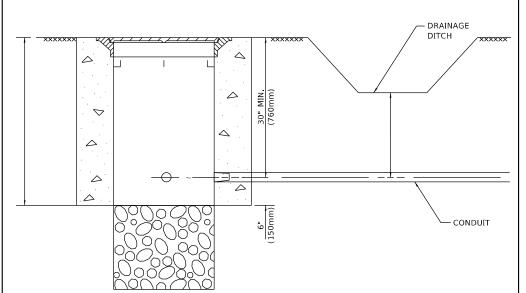
NOTES:

- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Ou) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

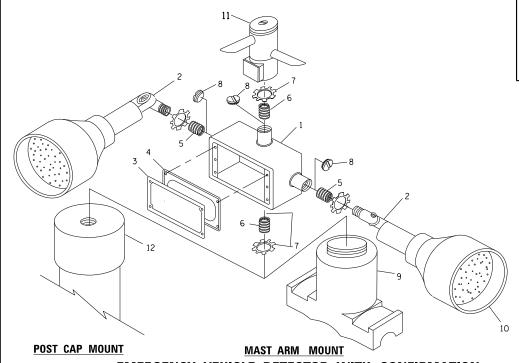
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	DRAWN -	REVISED -	STATE OF ILLINOIS			351	2021-035-RS	WILL	43 18
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	3	TANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT	NO. 62N51
PLOT DATE = 8/19/2022	DATE -	REVISED -		SCALE: NONE	SHEET 5 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	

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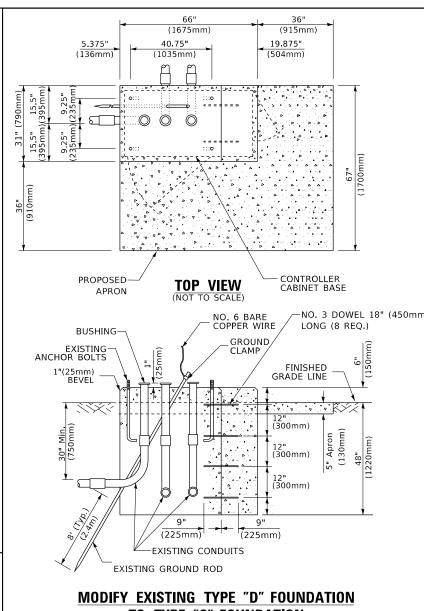
- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

JSER NAME = Nicholas Babul REVISED DRAWN REVISED HECKED REVISED



TO TYPE "C" FOUNDATION

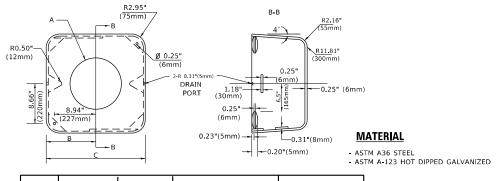
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IDENTIFICATION 1 OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 ¾"(19 mm) CLOSE NIPPLE 7 ¾"(19 mm) LOCKNUT 8 ¾"(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT. (5.4 m) POST MIN.]

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

STATE OF ILLINOIS

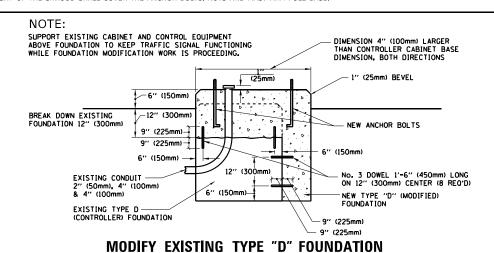
DEPARTMENT OF TRANSPORTATION

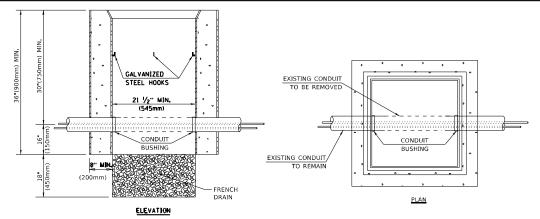


А	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 l bs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 bs (57 kg)

SHROUD

- 1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

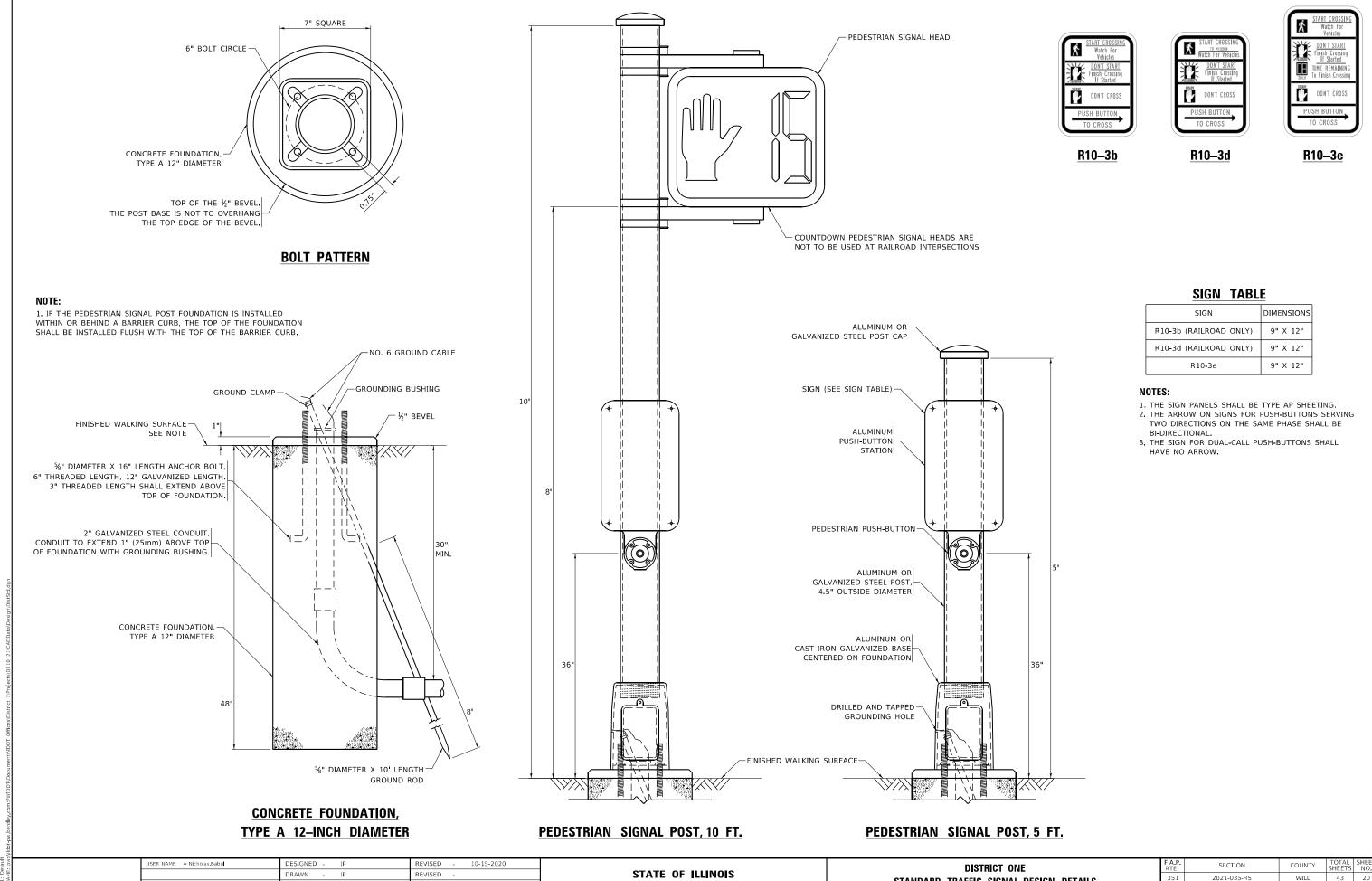




- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

DISTRICT ONE 2021-035-RS 43 19 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 62N51 SHEET 6 OF 7 SHEETS STA.



DEPARTMENT OF TRANSPORTATION

REVISED

2021-035-RS

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 7 OF 7 SHEETS STA.

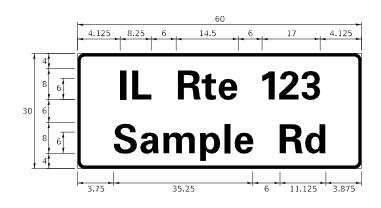
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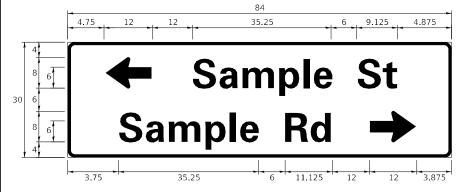
CONTRACT NO. 62N51

PLOT DATE = 8/19/2022

SIGN PANEL – TYPE 1 OR TYPE 2

35.25 11.125 3.875 Sample Rd





DESIGN	AREA	SIGN PANEL	SHEETING	OTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D OR C	-	1 OR 2	ZZ	

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)
NAME	ADDREVATION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8. 250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	ΙL	7.000	8.250
LANE	LANE Ln		10.750
PARKWAY	Pkwy	23. 375	27. 375
PLACE	PΙ	7. 125	7. 750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7. 750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8"-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

PARTS LISTING: LOCAL SUPPLIERS:

- I.O. HERBERT COMPANY, INC. PART #HPN053 (MED. CHANNEL) SIGN CHANNEL MIDLOTHIAN, VA 1/4" x 14 x 1" H.W.H. #3 SIGN SCREWS

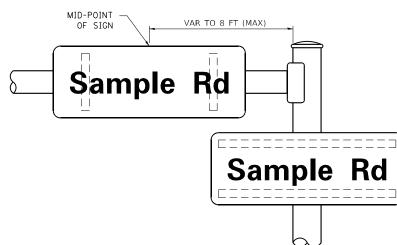
SELF TAPPING WITH NEOPRENE WASHER - WESTERN REMAC, INC. BRACKETS PART #HPN034 (UNIVERSAL) WOODRIDGE, IL

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

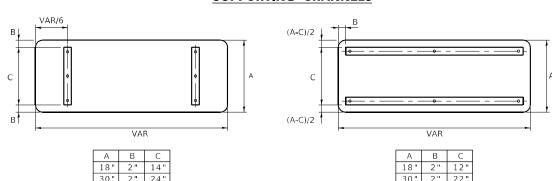
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION





SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

	FHWA SEF	RIES "C"			FHWA SEF	RIES "D"	
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACIN (INCH)
Α	0.240	5.122	0.240	А	0.240	6.804	0.240
В	0.880	4.482	0.480	В	0.960	5.446	0.400
С	0.720	4.482	0.720	С	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
Н	0.880	4.482	0.880	Н	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K L	0.880 0.880	4.482	0.480	K L	0.960 0.960	5.604 4.962	0.400
M	0.880	5. 284	0.880	M	0.960	6. 244	0. 960
N	0.880	4. 482	0.880	N N	0.960	5.446	0.960
0	0.720	4.722	0.720	0	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
<u> </u>	0.720	4. 722	0.720	Q	0.800	5. 684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0,400	5.446	0.400
T	0,240	4.082	0.240	Т	0.240	4. 962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
٧	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
Х	0.240	4.722	0.240	Х	0.400	5.446	0.400
Y	0.240	5.122	0.240	Υ	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
а	0.320	3.842	0.640	a	0.400	4.562	0.720
Ь	0.720	4.082	0.480	b	0.800	4.802	0.480
С	0.480	4.002	0.240	С	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
е	0.480	4.082	0.320	е	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
Ī	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2. 320	0.720	j	0.000	2.642	0.800
k	0.720	4. 322	0.160	k	0.800	5.122	0.160
I	0.720	1.120	0.720	I	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7. 926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
0	0.480	4.082	0.480	0	0.480	4.882	0.480
P	0.720	4.082	0.480	р	0.800	4.802	0.480
q r	0.480 0.720	4.082 2.642	0.720 0.160	q r	0.480 0.800	4.802 3.042	0.800
s s	0.720	3. 362	0.160	S	0.320	3. 762	0. 160
†	0.080	2. 882	0.080	t	0.080	3. 202	0.080
u	0.640	4.082	0.720	u	0.720	4. 722	0.800
	0.160	4. 722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
×	0.000	5. 202	0.000	×	0.000	6. 244	0.000
У	0.160	4.962	0.160	у	0.160	6.004	0.160
z	0.240	3. 362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240
_		·				· · · · · · · · · · · · · · · · · · ·	i –

SER NAME = Nicholas,Babul LP 07/01/2015 DESIGNED -REVISED DRAWN LP REVISED HECKED REVISED PLOT DATE = 8/19/2022 10/01/2014 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		DIS	TRICT ON	E		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MAST ARM MOUNTED STREET NAME SIGNS		351	2021-035-RS	WILL	43	21				
	MASI ANIM IMIOOMIED SINEEL MAIME SIGMS			TS-02 CONTRACT NO			NO. 62	2N51		
	SHEET	OF	SHEETS	STA	TO STA		TILINOIS EED A	D DROIECT		

4 EACH PEDESTRIAN PUSH-BUTTON

ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

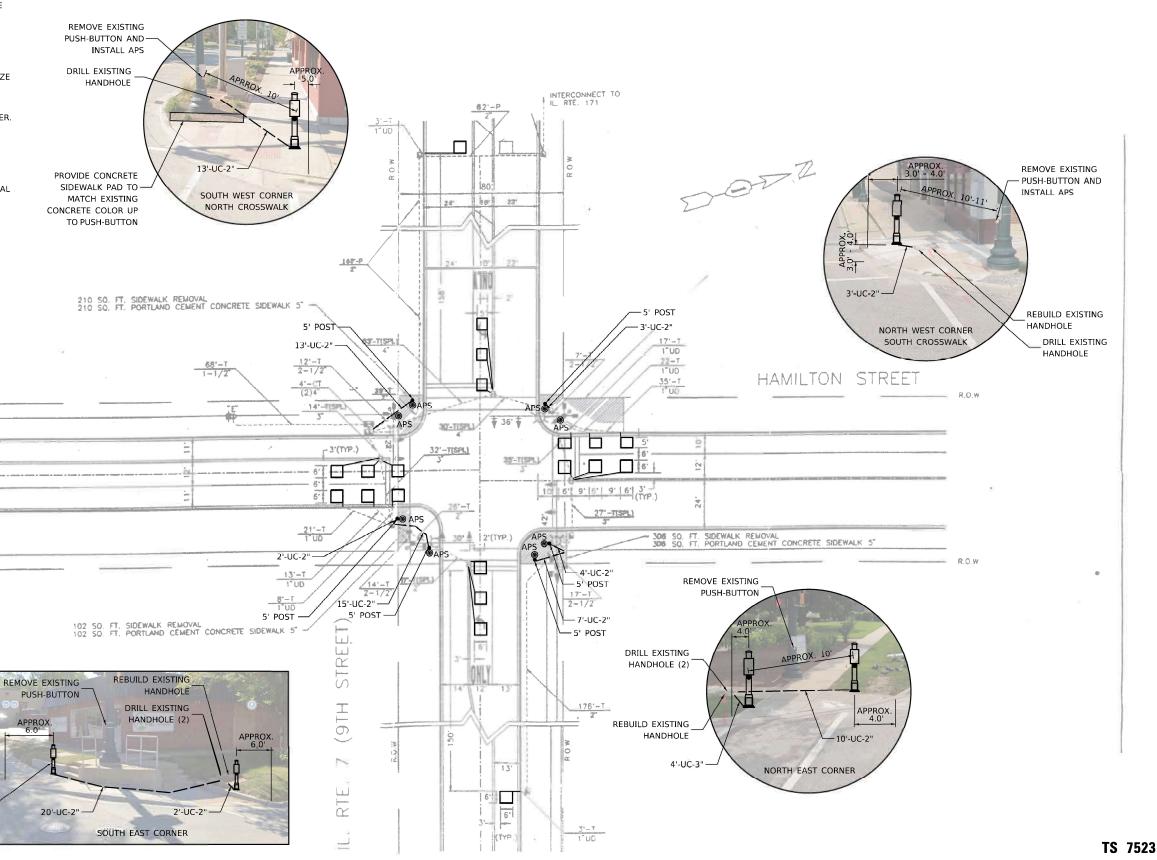
CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPEMENT IS IN OPERATIONAL.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

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

WHERE TRAFFIC SIGNAL EQUIPMENT WAS REMOVED THE EXISTING ELECTRICAL CABLE SHALL BE REMOVED FROM CONDUIT.



SCALE: NTS

TS SHT NO.9

THE PUSH-BUTTON POST SHALL

BE INSTALLED WITHIN SIDEWALK

NEXT TO SMALL BARRIER WALL.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APS AND DETECTOR LOOP INSTALLATION PLAN
IL RTE 7 (9TH ST) AT HAMILTON ST

SHEET OF SHEETS STA. TO STA.

ECON 179



DRAWN

DATE

PLOT DATE = \$DATE\$

HECKED

ZT

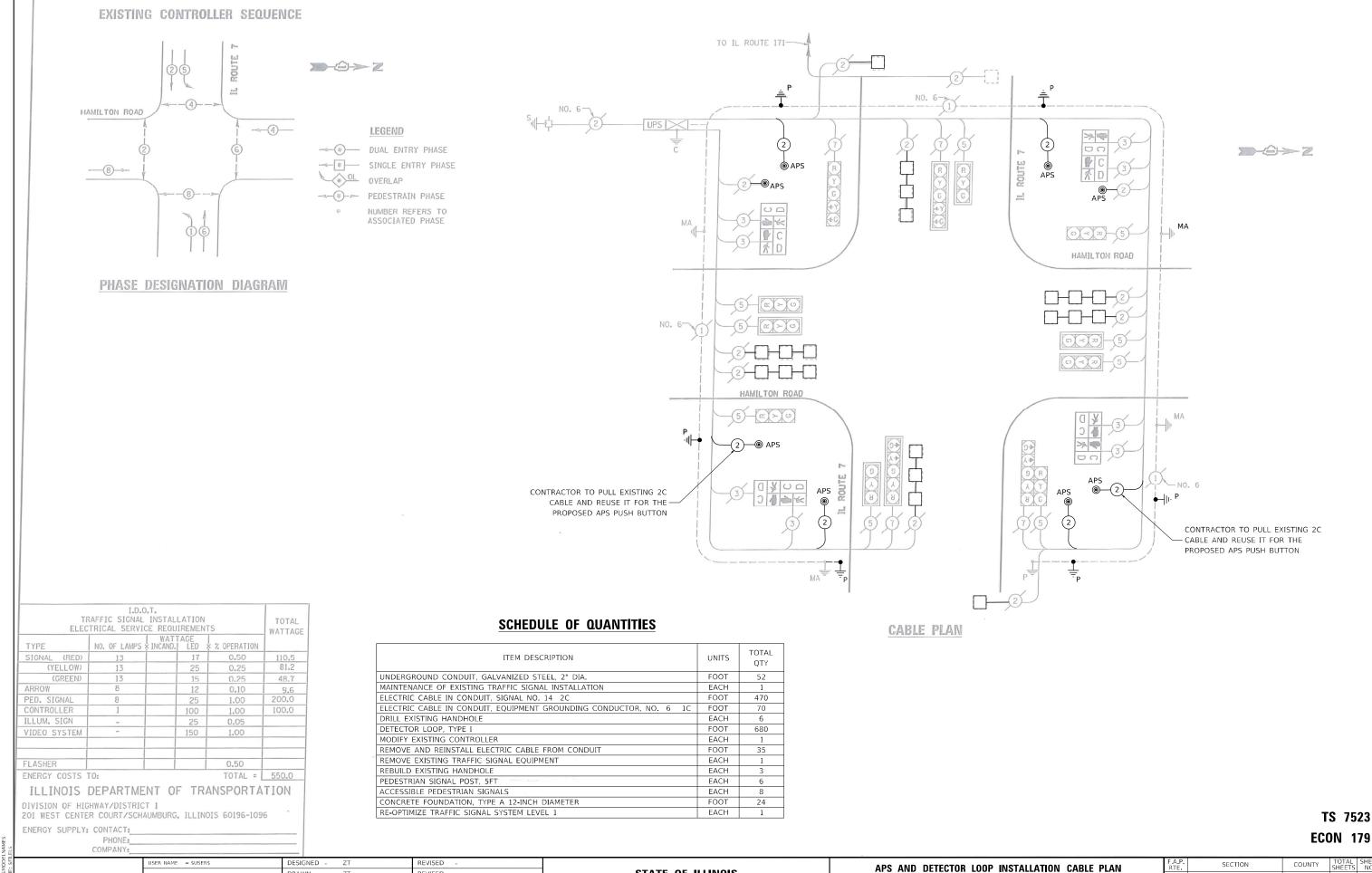
KK

06/28/2022

REVISED

REVISED

REVISED



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

WILL 43 23

CONTRACT NO. 62N51

351

TO STA.

IL RTE 7 (9TH ST) AT HAMILTON ST

OF SHEETS STA.

SCALE: NTS

2021-035-RS



ILLUM, SIGN

VIDEO SYSTEM

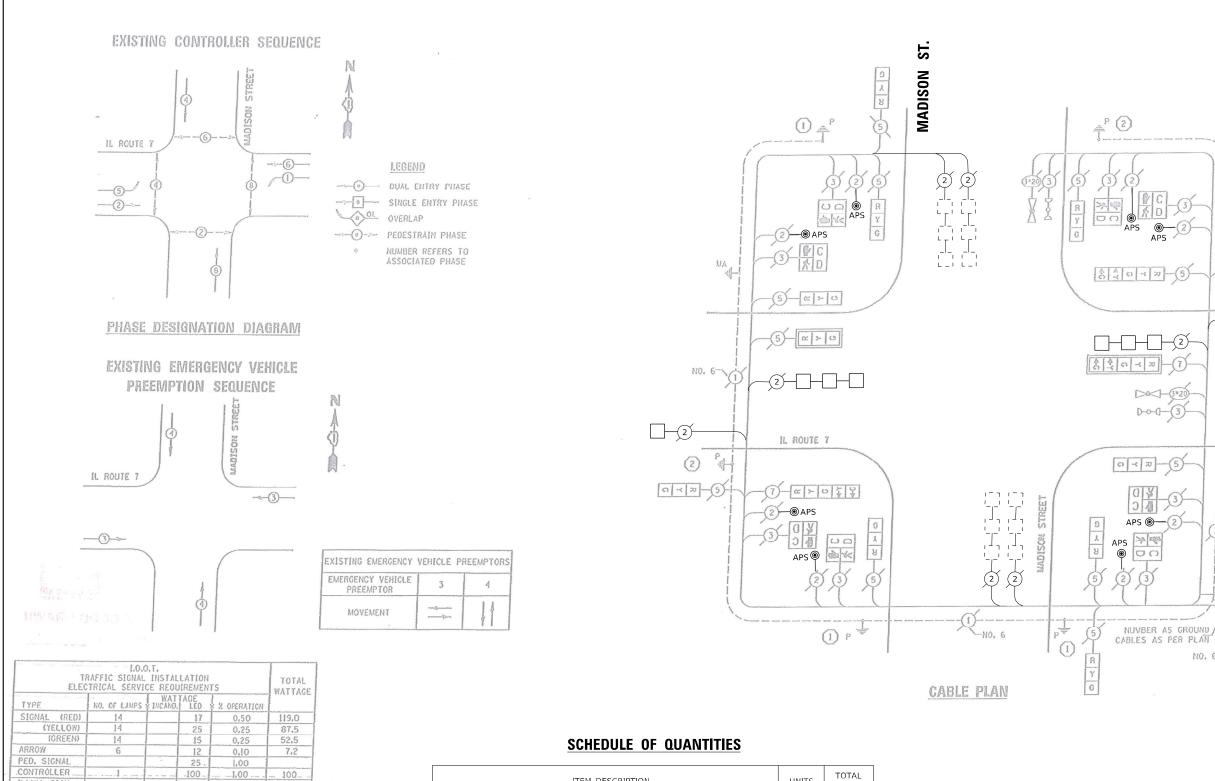
ENERGY COSTS TO:

ENERGY SUPPLYI CONTACT

0.05

1.00

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY/DISTRICT I 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096



ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
DETECTOR LOOP, TYPE I	FOOT	405
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

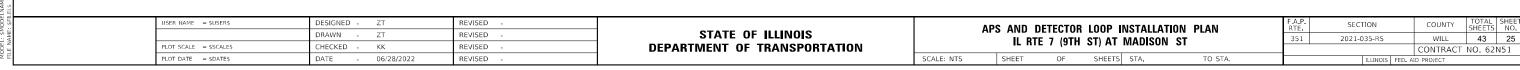
TS 7522

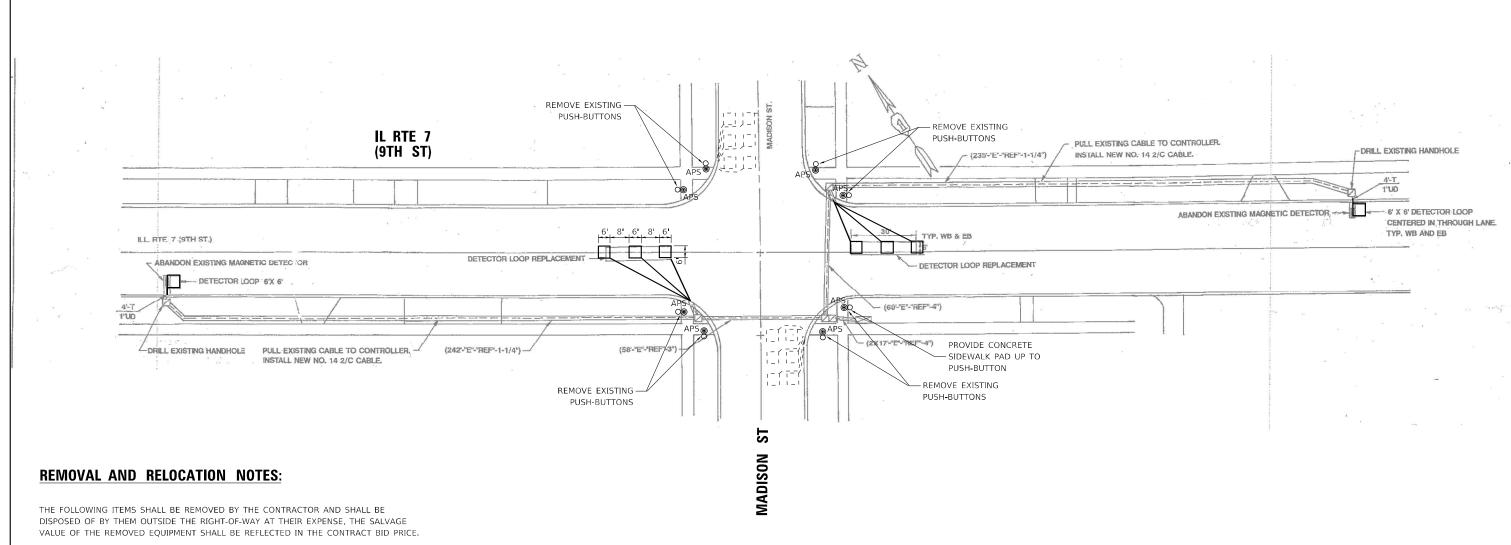
HP (2)

IL RTE 7 (9TH ST.)

COMPANY:							
	USER NAME = \$USER\$	DESIGNED - ZT	REVISED -		APS AND DETECTOR LOOP INSTALLATION CABLE PLAN	F.A.P. SECTION	COUNTY TOTAL SHEET
		DRAWN - ZT	REVISED -	STATE OF ILLINOIS	IL RTE 7 (9TH ST) AT MADISON ST	351 2021-035-RS	WILL 43 24
	PLOT SCALE = \$SCALE\$	CHECKED - KK	REVISED -	DEPARTMENT OF TRANSPORTATION	IL NIE / (SIN SI) AI WADISUN SI		CONTRACT NO. 62N51
	PLOT DATE = \$DATE\$	DATE - 06/28/2022	REVISED -		SCALE: NTS SHEET OF SHEETS STA. TO STA.	ILLINOIS FE	D. AID PROJECT







8 EACH PEDESTRIAN PUSH-BUTTON

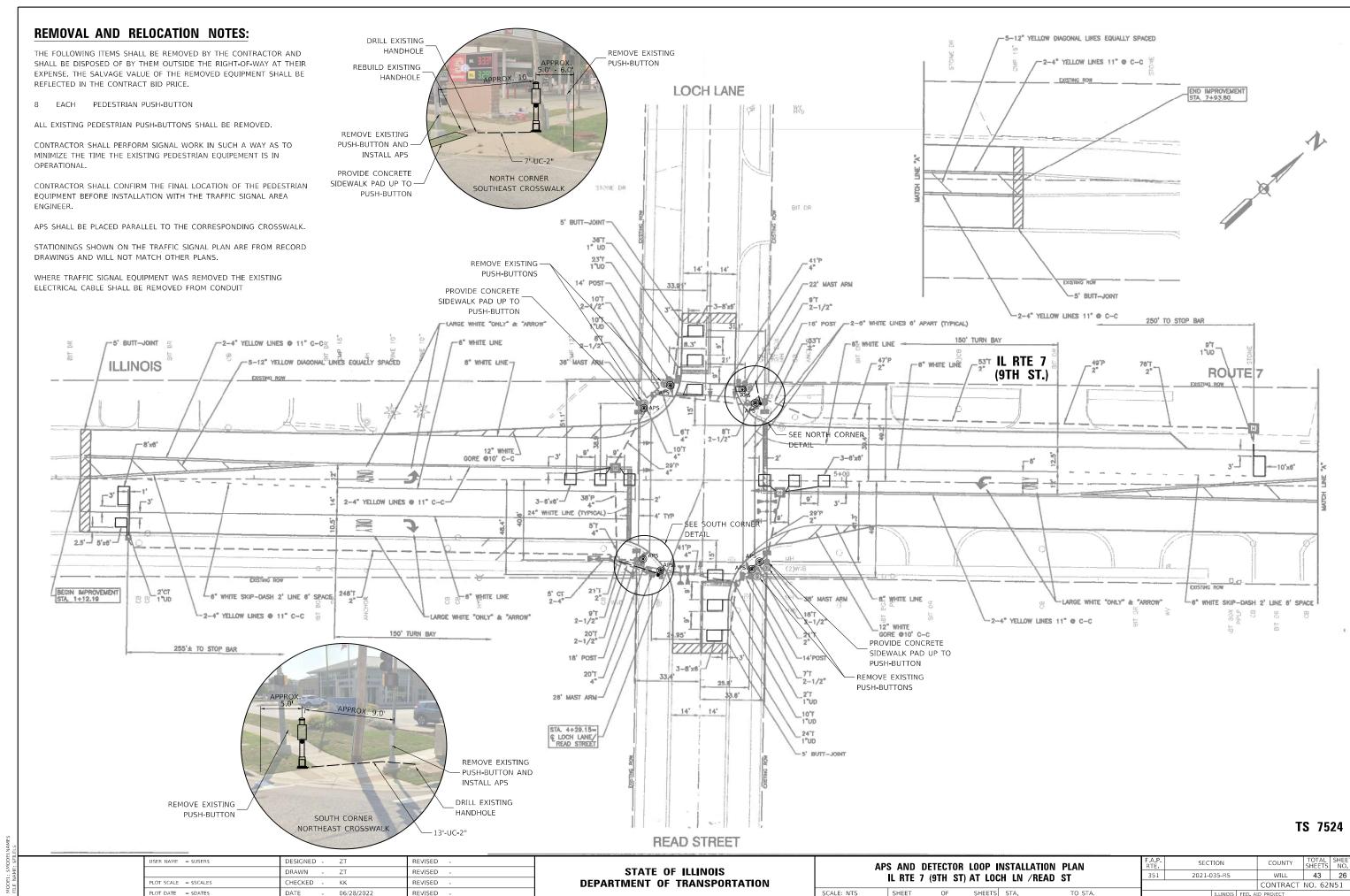
ALL EXISTING PEDESTRIAN PUSH-BUTTONS SHALL BE REMOVED.

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

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

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

TS 7522



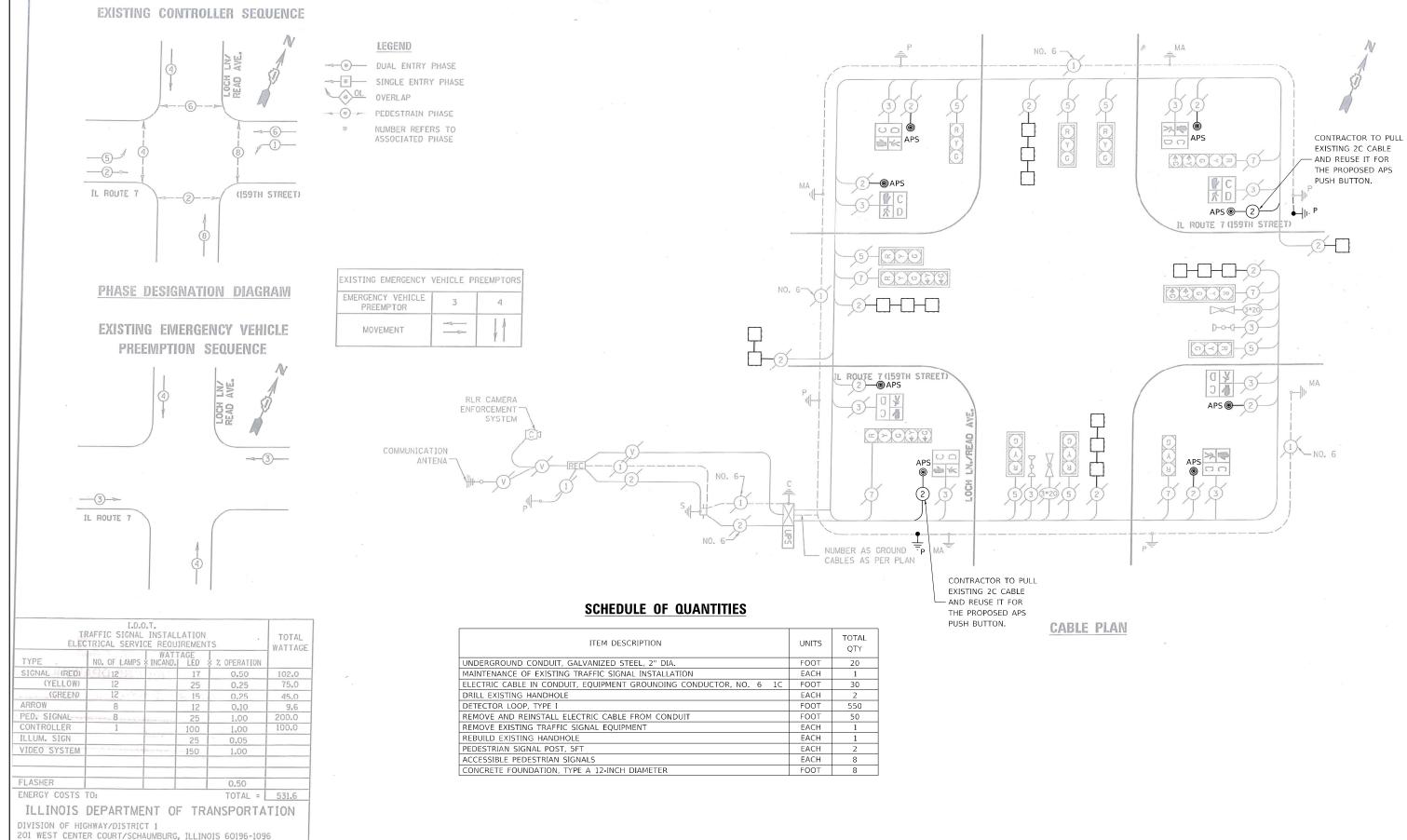
PLOT DATE = SDATES

DATE

06/28/2022

REVISED





COMPANY: COM ED JSER NAME = \$USER\$ DESIGNED -REVISED DRAWN ZT REVISED HECKED KK REVISED PLOT DATE = \$DATE\$ REVISED DATE 06/28/2022

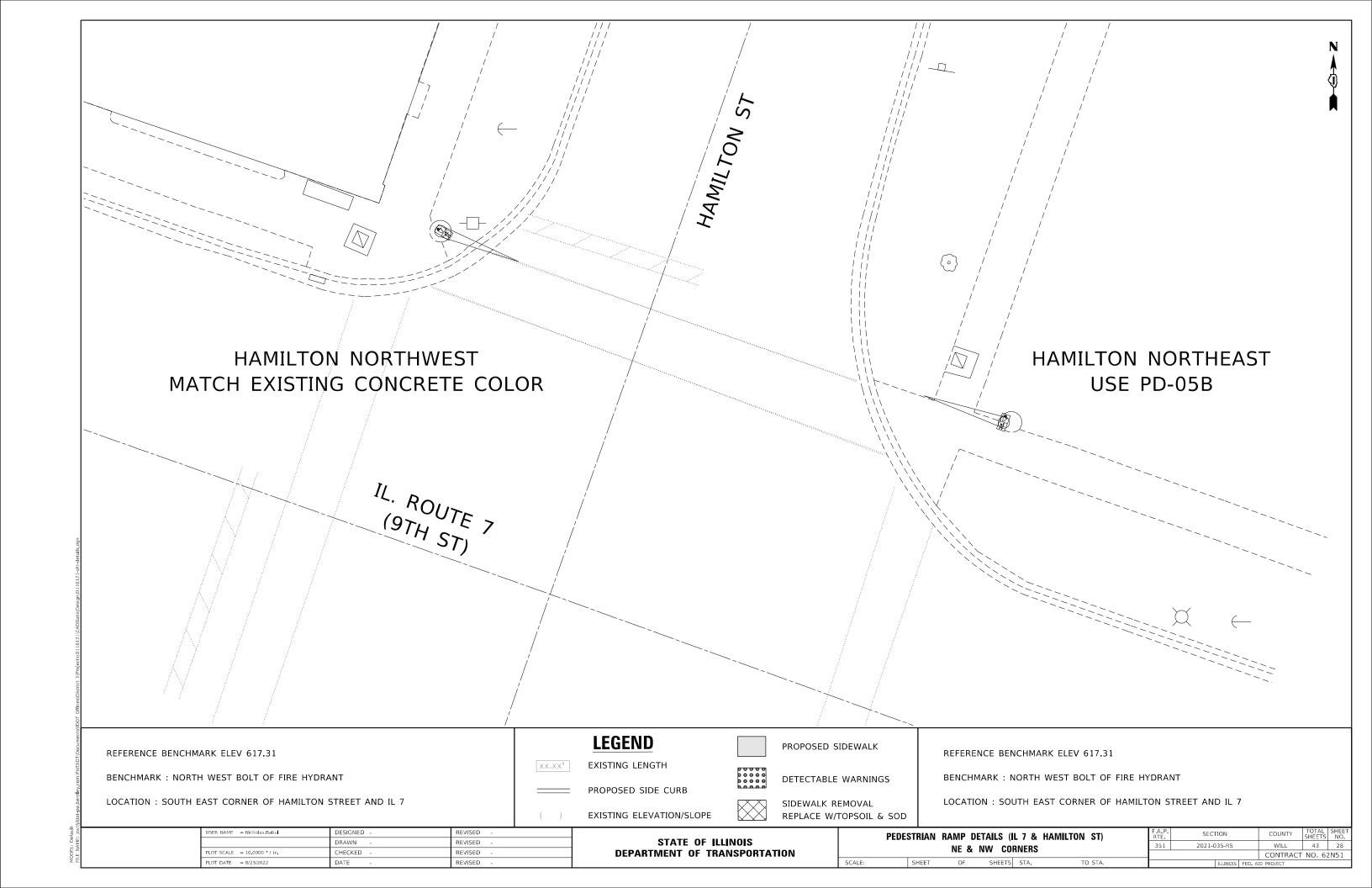
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

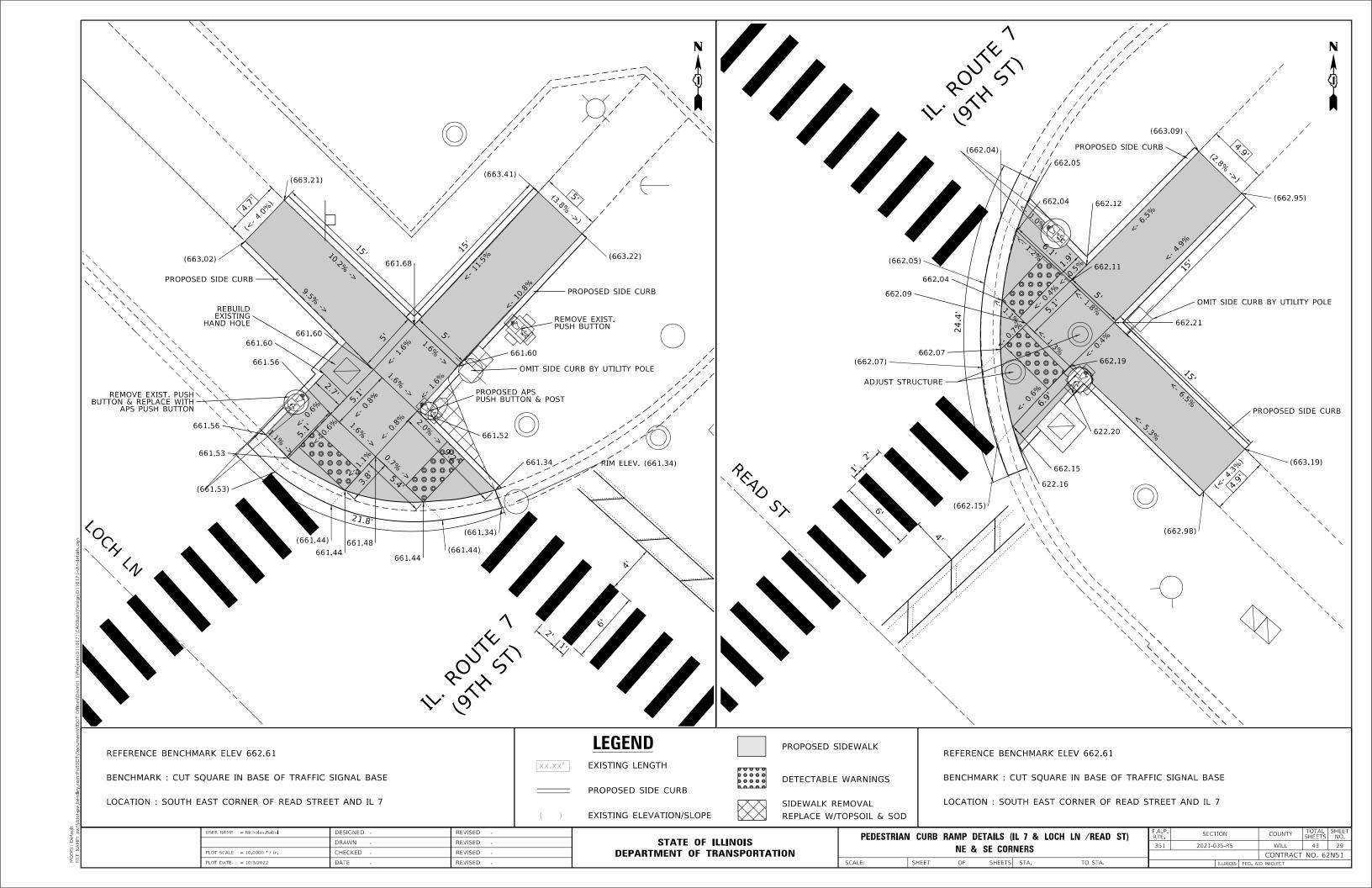
SECTION COUNTY APS AND DETECTOR LOOP INSTALLATION CABLE PLAN WILL 43 27 351 2021-035-RS IL RTE 7 (9TH ST) AT LOCH LN /READ ST CONTRACT NO. 62N51 OF SHEETS STA.

TS 7524

ENERGY SUPPLY: CONTACT: DENISE BAKER

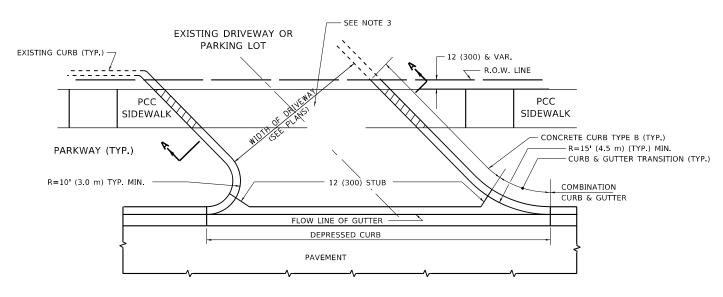
PHONE: 815-724-5054



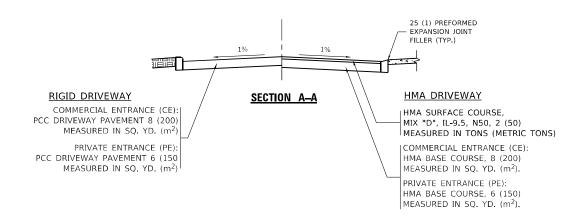


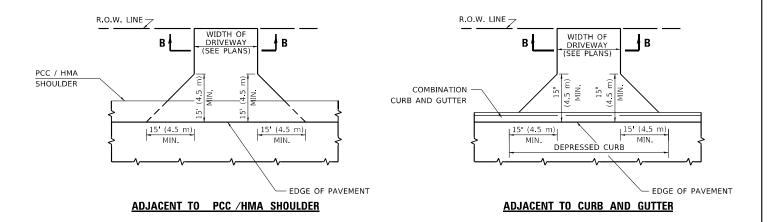
ADA DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS PD-03A **PD-03B** -LOWER LANDING LOWER LANDING CURB RAMP PREFERRED = 7.1% (1:14) LANDSCAPE OR PCC AREA -LANDSCAPE OR PCC AREA-LOWER LANDING-LOWER LANDING ° × × ′ × × ′ × × MATCH EXIST » PREF. 1.6% MAX. 2.0% MAX. 2.0% 42 22 11 1 22 22 22 TRANSITION **TRANSITION** EXIST SIDEWALK EXIST SIDEWALK PREFERRED < 8.3% PREFERRED < 8.3% MAX. ANY SLOPE 15 MAX. ANY SLOPE [™]MATCH EXIST ຶ 🗒 [™]MATCH EXIST *, CURB RAMP PREFERRED = 7.1% (1:14) MAX. = 8.3% (1:12) CURB RAMP PREFERRED = 7.1% (1:14) MAX. = 8.3% (1:12) 2' MIN GRASS BUFFER 2' MIN GRASS BUFFER MATCH EXIST-MATCH EXIST-SIDEWALK ⊱MATCH EXIST SIDEWALK ackslash MATCH EXIST 44 44 EXIST MUST BE EXIST. LANDSCAPED MUST BE EXIST. LANDSCAPED SURFACE. EXIST. CONCRETE SURFACE SURFACE. EXIST. CONCRETE SURFACE WILL REQUIRE DETAILED DESIGN WILL REQUIRE DETAILED DESIGN **CONSTRUCTION NOTES:** a a a EXIST. GRASS **LEGEND** 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK PROPOSED SIDEWALK * MATCH EXISTING SIDEWALK WIDTH ─ PROPOSED SIDE CURB DETECTABLE WARNINGS SER NAME = Nicholas,Babul DESIGNED REVISED SECTION PROJECT DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS STATE OF ILLINOIS DRAWN R. LEDEZMA REVISED 351 2021-035-RS WILL 43 30 HECKED REVISED **DEPARTMENT OF TRANSPORTATION** PD-03 CONTRACT NO. 62N51 SCALE: NONE LOT DATE = 9/9/2022 SHEETS STA.

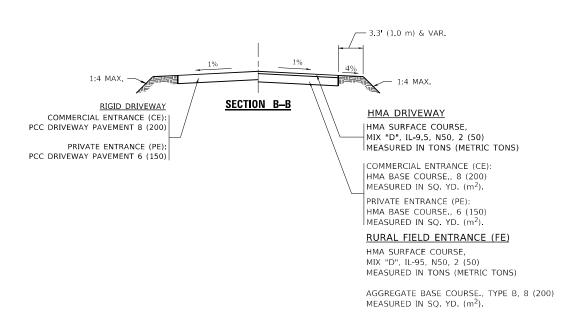
WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B







GENERAL NOTES

- 1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.
- COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

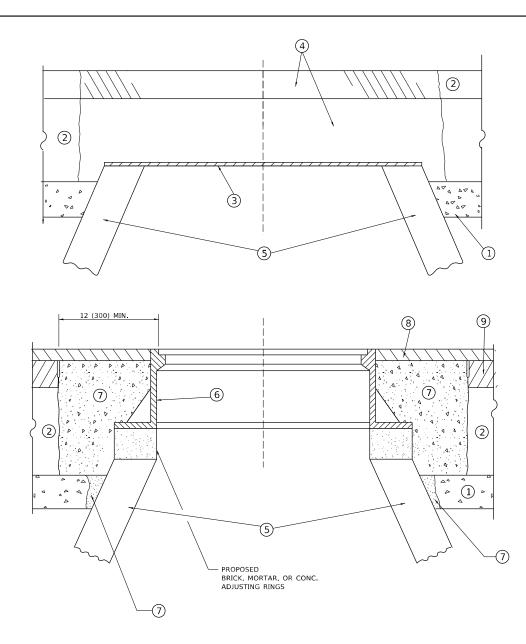
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

USER NAME = Nicholas Babul	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 8/18/2022	DATE 11-04-95	REVISED K SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.							
AND F	ACE OF CL	JRB &	EDGE OF	SHOULDER	<u>≥</u> 15′(4.5m)		
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		

F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
351	2021-035-RS	WILL	43	31	
В	D400-01 (BD-01)	CONTRACT	NO. 62	2N51	
	ILLINOIS	FED. A	ID PROJECT		



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

<u>NOTES</u>

- 1. 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.
- 2. 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.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS*PP-1 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-1 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

- 1. 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)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. 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

43

JSER NAME = Nicholas,Babul R. SHAH REVISED - R. BORO 01-01-07 DESIGNED -DRAWN REVISED - R. BORO 03-09-11 HECKED REVISED - R. BORO 12-06-11 PLOT DATE = 8/18/2022 10-25-94 REVISED - K. SMITH 02-01-22 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

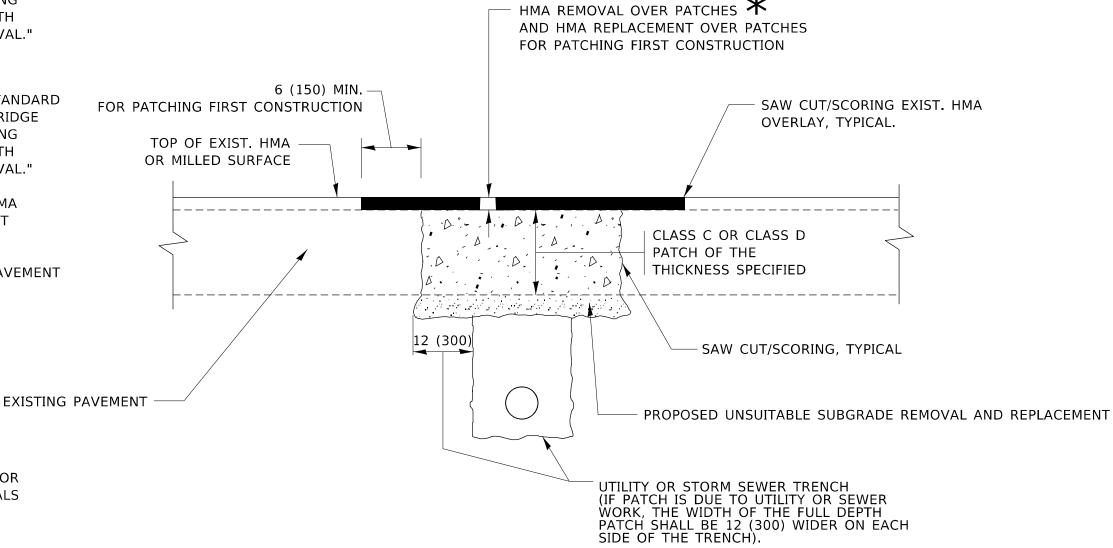
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING BD600-03 (BD-08) CONTRACT NO. 62N51 SHEET 1 OF 1 SHEETS STA.

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.



SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEE TYPICAL SECTIONS FOR

THICKNESS AND MATERIALS

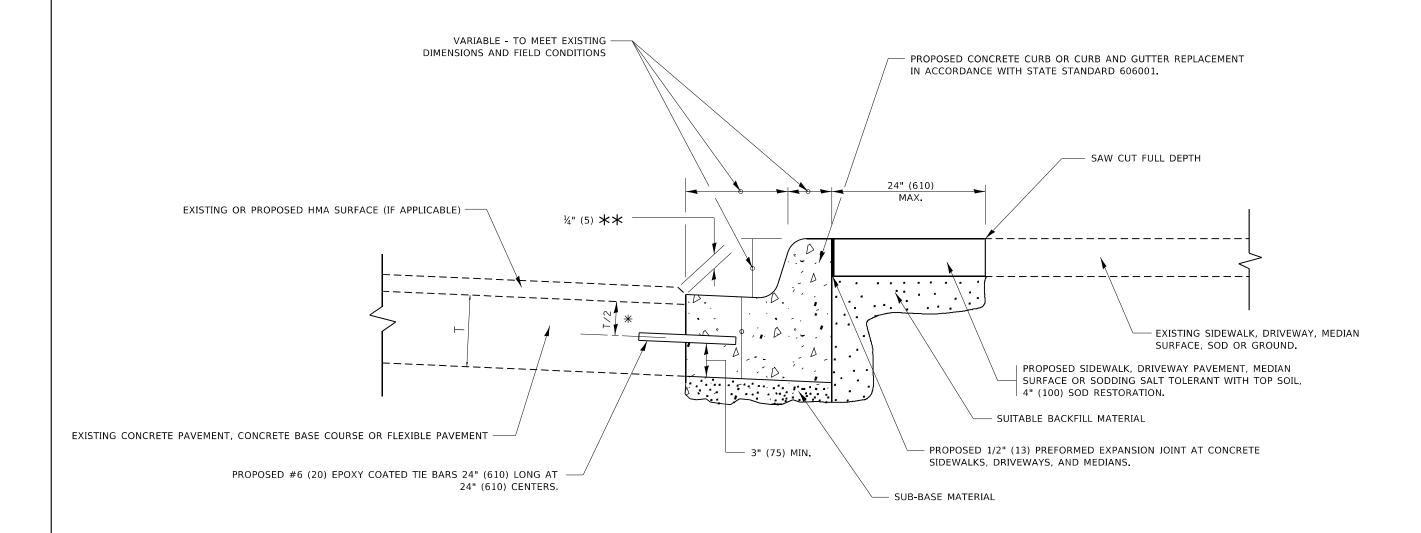
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ 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.

USER NAME = Nicholas.Babul	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07		PAVEMENT PATCHING FOR	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED - R. BORO 09-04-07	STATE OF ILLINOIS		351	2021-035-RS	WILL	43	33
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED - K. ENG 10-27-08	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	E	3D400-04 (BD-22)	CONTRACT	F NO. 62	N51
PLOT DATE = 8/18/2022	DATE - 10-25-94	REVISED - K, SMITH 02-01-22		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED	AID PROJECT		-



- imes 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- $\star\star$ IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

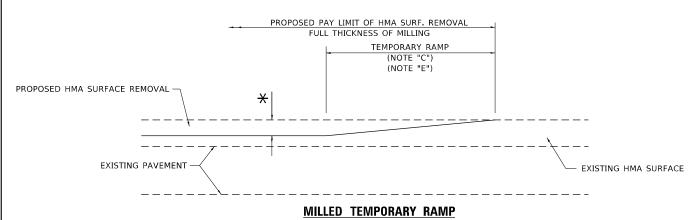
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = Nicholas.Babul	DESIGNED -	A. HOUSEH	REVISED	-	A. ABBAS 03-21-97
	DRAWN -		REVISED	-	M. GOMEZ 01-22-01
PLOT SCALE = 100.0000 / in.	CHECKED -		REVISED	-	R. BORO 12-15-09
PLOT DATE = 8/18/2022	DATE -	03-11-94	REVISED	-	K. SMITH 07-11-19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

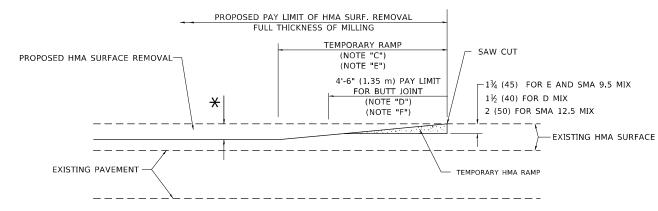
CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

SHEET 1 OF 1 SHEETS STA. TO STA.



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

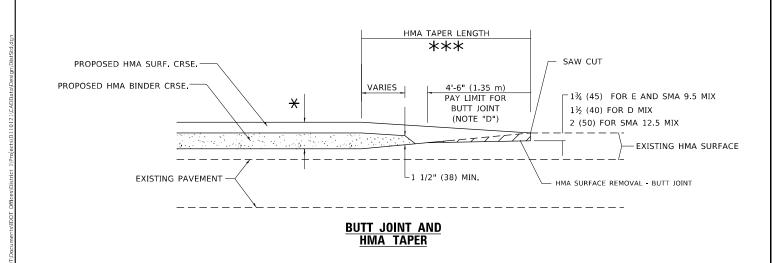


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

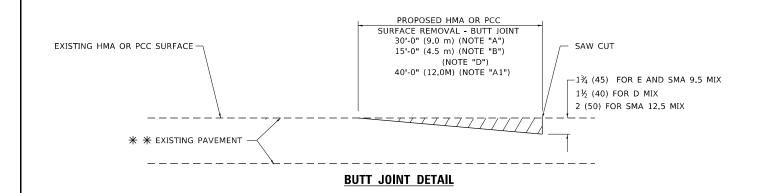
TYPICAL TEMPORARY RAMP

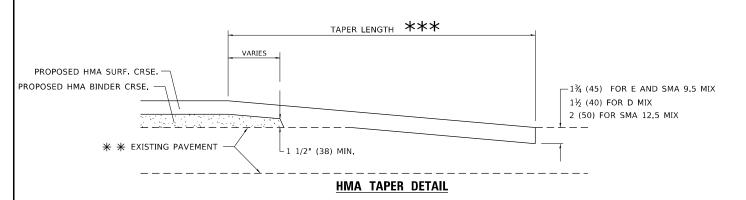


TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| BUTT JOINT AND | | FA.P. | SECTION | COUNTY | TOTAL | SHEETS | NO. | SHEETS | N





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE,
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - igstar SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. 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")

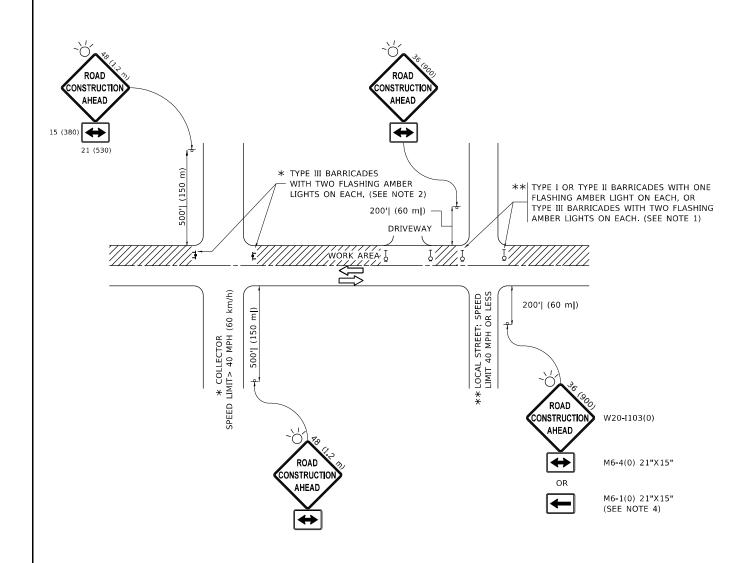
 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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"
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

SCALE: NONE

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



NOTES:

- 1. 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:
- a) 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.
- b) 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.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) 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
 b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
 OF THE CLOSED PORTION.
- 3. 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

SCALE: NONE

WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 5. 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.
- 6. 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.

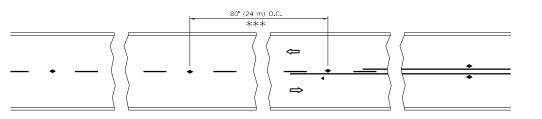
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = Nicholas.Babul	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 8/18/2022	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						TION FOR DRIVEWAYS
SHEET	1	OF	1	SHEETS	S STA.	TO STA.

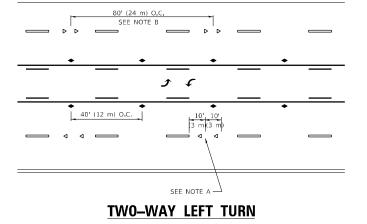
F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEE NO.
351	2021-0	35-RS		WILL	43	36
TC-10				CONTRACT	NO. 62	2N51
		ILLINOIS	FED. A	D PROJECT		



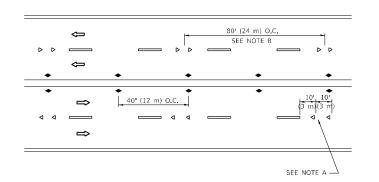
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

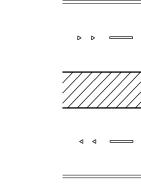
\Rightarrow LANE REDUCTION TRANSITION

SEE FIGURE 3B-14 MUTCD



TW0-LANE/TW0-WAY

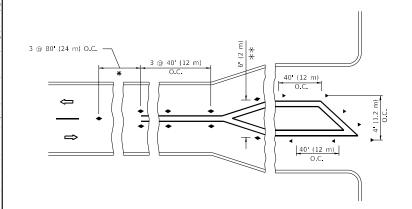


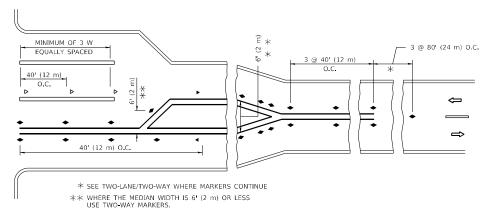


80 (24 m) O.C. SEE NOTE B \Rightarrow SEE NOTE A

MULTI-LANE/UNDIVIDED







TURN LANES

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.
- 4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

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.

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.
- SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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

JSER NAME = Nicholas,Babul DESIGNED REVISED - T. RAMMACHER 03-12-99 DRAWN REVISED - T. RAMMACHER 01-06-00 CHECKED REVISED PLOT DATE = 8/18/2022 C. JUCIUS 07-01-13 DATE REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHEET 1 OF 1 SHEETS STA.

SECTION 2021-035-RS WILL 43 37 TC-11 CONTRACT NO. 62N51

SYMBOLS

ONE-WAY AMBER MARKER

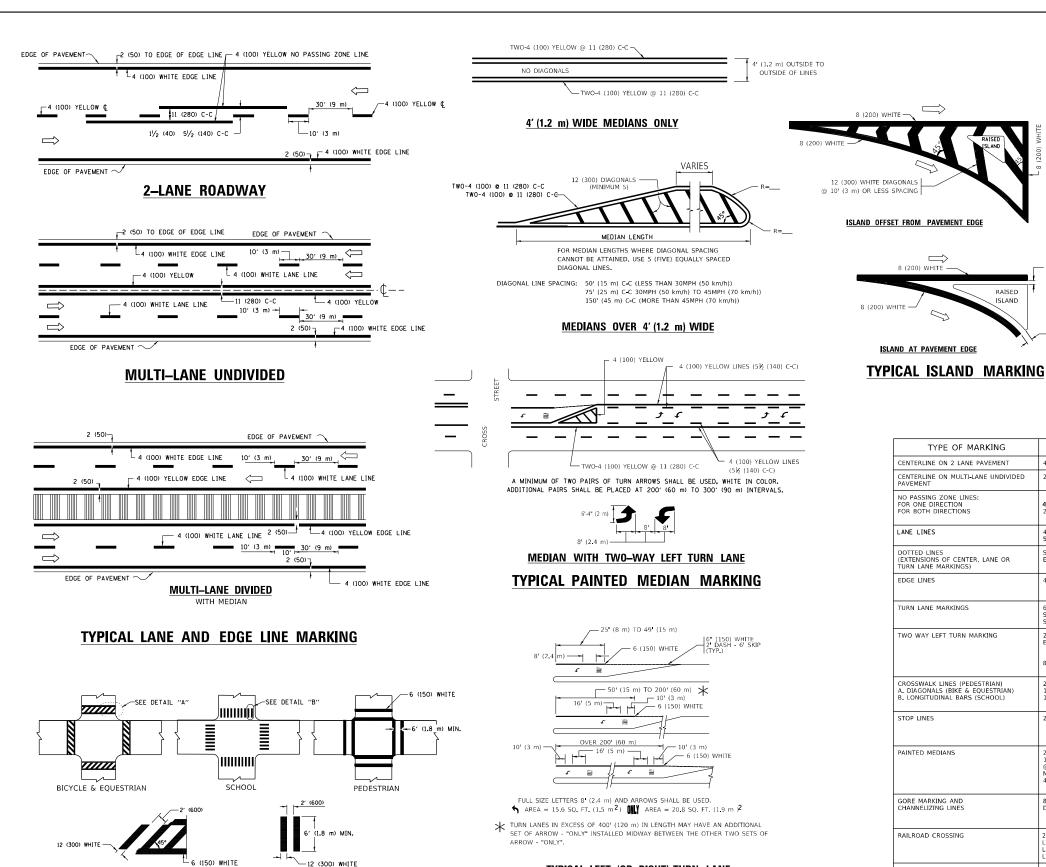
TWO-WAY AMBER MARKER

ONE-WAY CRYSTAL MARKER (W/O)

YELLOW STRIPE

■ WHITE STRIPE

- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY



TYPICAL TURN LANE MARKING

TYPICAL LEFT (OR RIGHT) TURN LANE

50 **COMBINATION** LEFT AND U-TURN 5'-4" (1620) √ 32 R (810) LANE REDUCTION TRANSITION * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS. **U-TURN**

D(FT)

SPEED LIMIT

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	5½ (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	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (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 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 2EACH "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.

RAISED

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

USER NAME = Nicholas.Babul	DESIGNED	-	EVERS	REVISED	-	C. JUCIUS 09-09-09
	DRAWN	-		REVISED	-	C. JUCIUS 07-01-13
PLOT SCALE = 100.0000 / in.	CHECKED	-		REVISED	-	C. JUCIUS 12-21-15
PLOT DATE = 8/18/2022	DATE	-	03-19-90	REVISED	-	C. JUCIUS 04-12-16

DETAIL "B"

DETAIL "A"

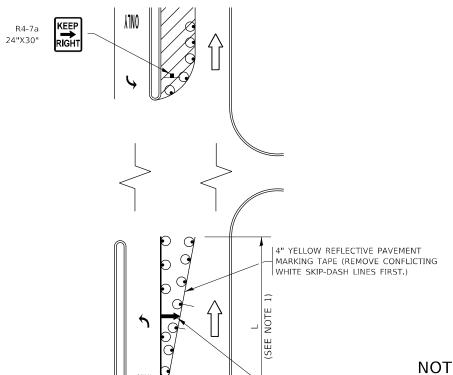
TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
TYPICAL PAVEMENT MARKINGS			20	351	2021-035-RS	WILL	43	38
				TC-13	CONTRACT NO. 62N51			
CHEET 1	OF 3 CHEET	CTA	TO CTA					

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

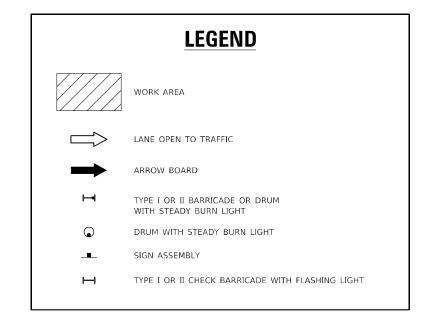


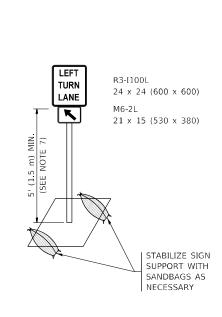
- ARROW BOARD

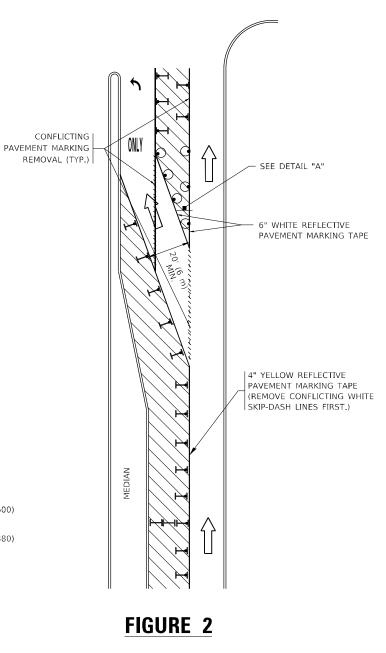
NOTES:

- 1. A) WHEN "L" IS ≤ 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-I100R 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 PREOUIREMENTS.
- 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







DETAIL A

SCALE: NONE

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

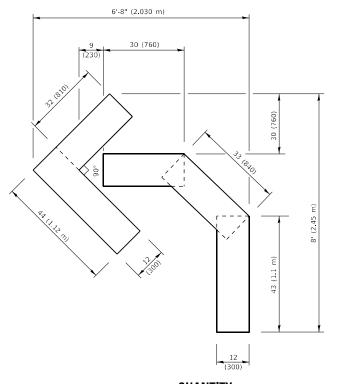
SER NAME = Nicholas,Babul DESIGNED -T. RAMMACHER 09-08-94 R. BORO 09-14-09 A. HOUSEH 11-07-95 REVISED - A. SCHUETZE 07-01-13 A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16 PLOT DATE = 8/18/2022 DATE -T. RAMMACHER 01-06-00 REVISED

FIGURE 1

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

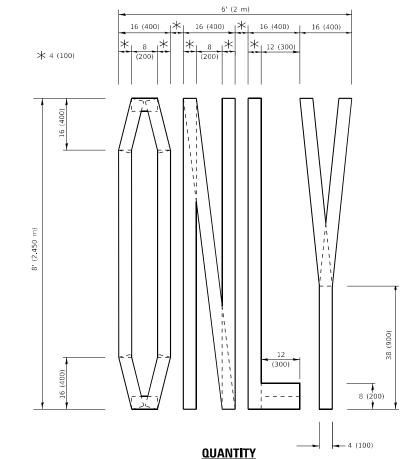
TRAFF	IC CONTROL AND	PROTECTION AT TURN	N BAYS	F.A.P. RTE.	SECTION	COUNTY	TOTA
	/TO REMAIN	OPEN TO TRAFFIC)		351	2021-035-RS	WILL	43
	(10 IILIVIAJIV	OLEN TO THATTIC!			TC-14	CONTRACT	ΓNO.
NIE I	CHEET 1 OF 1	CHEETE CTA	TO CTA		numore s		

SEE DETAIL "A"

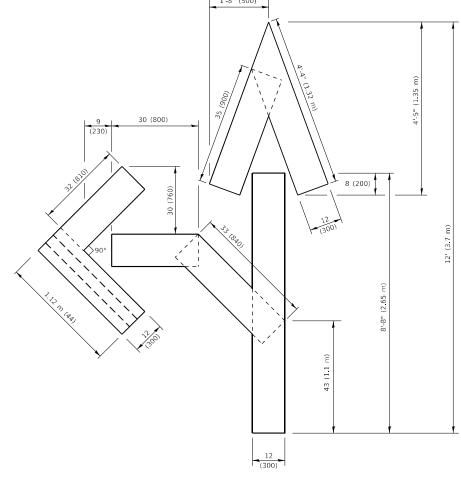


QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)



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

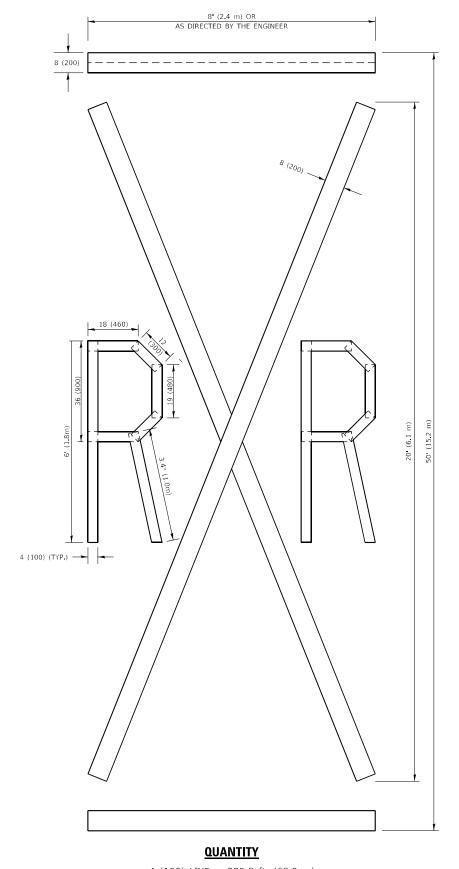


QUANTITY

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.



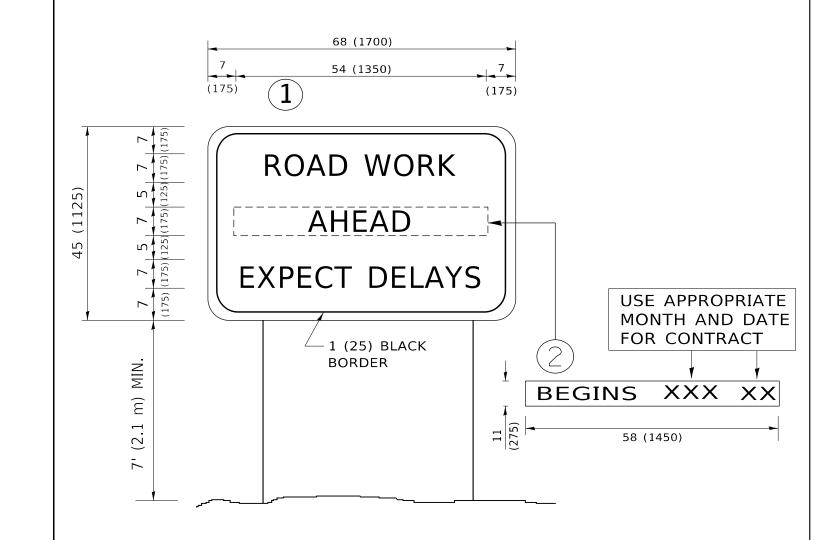
4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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



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.

SHEET

6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)

SCALE: NONE

7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

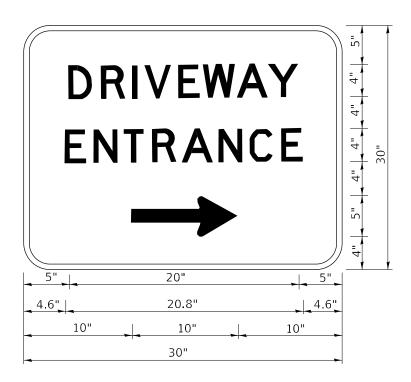
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

43 41

CONTRACT NO. 62N51

USER NAME = Nicholas.Babul	DESIGNED -	REVISED	- R. MIRS 09-15-97
	DRAWN -	REVISED	- R. MIRS 12-11-97
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED	-T. RAMMACHER 02-02-99
PLOT DATE = 8/18/2022	DATE -	REVISED	- C. JUCIUS 01-31-07

ARTERIAL ROAD					SECTION
	INFORM	MATION SIGN	351	2021-035-RS	
	IIII OIIII	MATION SIGN			TC-22
1	OF 1	SHEETS STA	TO STA.		TILLIMOIS F



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.P. | SECTION | COUNTY | SHEET | WILL | SIGNING | STALE | S

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. I PAVED OR NON-PAVED SHOULDER 11" (25 mm) UNIT DUCT-TRENCHED (3.0 m) (3.0 m)

* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS

SER NAME = Nicholas,Babul

PLOT DATE = 8/18/2022

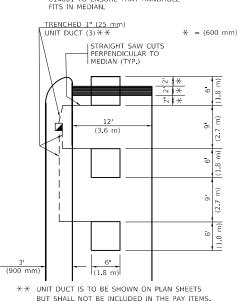
* = (600 mm)

LEFT TURN LANES WITH MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLF 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 HANDHOLL



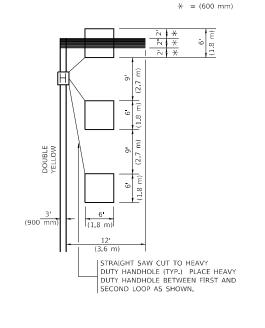
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

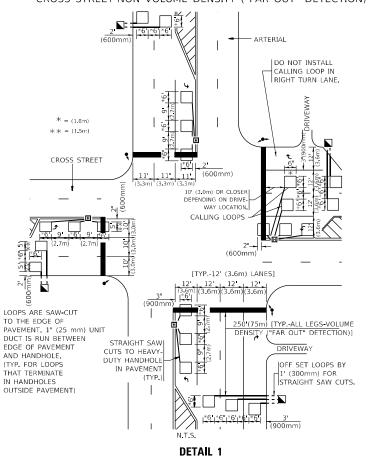
(PROTECTED / PERMITTED LEFT TURN PHASING)



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

SCALE: NONE

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



N.T.S.

DESIGNED

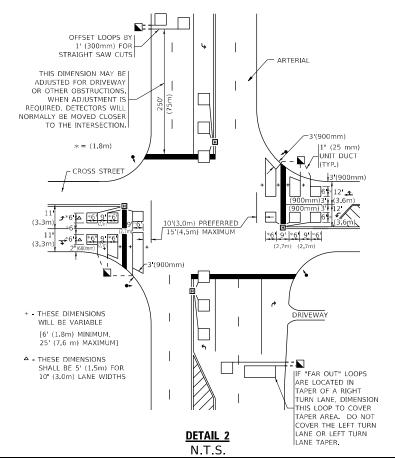
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R.K.F

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



VEHICLES LOOP DETECTORS

- st ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED,
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * 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.

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING SHEET 1 OF 1 SHEETS STA. TO STA.

SECTION COUNTY 351 2021-035-RS WILL 43 43 TS-07 CONTRACT NO. 62N51