STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

FAP 0303 22 RS3 McHENRY 40 CONTRACT NO 62T63

D-91-216-22

LOCATION OF SECTION INDICATED THUS: -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE CITY OF HARVARD.

TRAFFIC DATA:

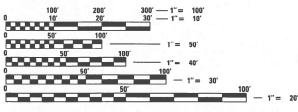
US 14 (DIVISION STREET):

BRINKS STREET TO DIGGINS STREET: ADT (2021) = 12,600SPEED LIMIT = 30 MPH

OTHER PRINCIPAL ARTERIAL

IL ROUTE 173 (DIGGINS STREET):

US 14 (DIVISION STREET) TO GARFIELD STREET ADT (2021) = 4,900SPEED LIMIT = 30 - 35 MPH



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE 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

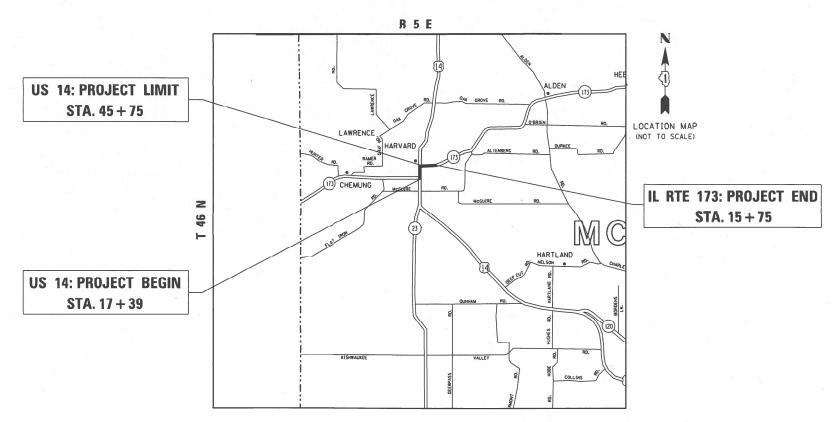
FAP ROUTE 303:US 14 (DIVISION STREET), IL 173 (DIGGINS STREET) US 14 /IL 173 (DIVISION ST): BRINK ST TO DIGGINS ST & IL 173 (DIGGINS ST): DIVISION ST TO E OF GARFIELD RD SECTION: FAP 0303 22 RS3

PROPOSED

HIGHWAY PLANS

PROJECT: NHPP-XGRD(728) **SMART OVERLAY, ADA IMPROVEMENTS** MCHENRY COUNTY

C-91-269-22



CHEMUNG TOWNSHIP

GROSS LENGTH = 4,411 FT. = 0.83 MILE **NET LENGTH = 3,765 FT. = 0.71 MILE**

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED DESCRIBE 12 20 23

> PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 62T63

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INDEX OF SHFFTS

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	STANDARD NO.	DESCRIPTION

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PROJECT DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS (PD-03)

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
814001-03	HANDHOLES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES,
- 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.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE ARE DETERMINED AND APPROVED IN WRITING BY THE RESIDENT ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

- BEFORE BEGINNING ANY WORK. THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE ASSHOWN ON THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.
- 8. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 11/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS. AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
- 9. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 10. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- 11. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 12. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT WALTER.CZARNY@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 13. ALL SIGNS MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SOECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022, THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 14. THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
- 15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF
- 16. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. AREAS OF SEVERE RUTTING SHALL BE DETERMINED BY ENGINEER BEFORE
- 17. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON PLANS SHALL BE PLACED AT NO ADDITIONAL COST TO THE
- 18. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 19. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 20. ALL MILLED SURFACES SHALL BE A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- 21. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

USER NAME = Nedal.Qarut	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/15/2023	DATE -	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** US 14 (DIVISION ST) BRINK ST. TO EAST OF GARFIELD ROAD INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES SHEET 1 OF 1 SHEETS STA.

SECTION COUNTY 303 FAP 0303 22 RS3 McHENRY 40 2 CONTRACT NO. 62T63

	SUMMARY OF QUANTITIES				CC)NSTRUCTIO	ON TYPE C	ODE			SUMMARY OF QUANTITIES				CC	NSTRUCTION IN TRUCTION IN TRUC	ON TYPE C	ODE	
	SUMMANT OF QUANTITIES		TOTAL	SMART	100%						SUMMART OF UDANTITIES		TOTAL	SMART	100%				
CODE NO	ITEM	UNIT	QUANTITIES	80% FED 20% STATE 0005	STATE 0005					CODE NO	ITEM	UNIT	QUANTITIES	80% FED 20% STATE 0005	STATE 0005				
20200100	EARTH EXCAVATION	CU YD	18	18						44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1	SO YD	19330	19330					
											1/2"								
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	206	206															
										44000600	SIDEWALK REMOVAL	SO FT	1625	1625					
21400100	GRADING AND SHAPING DITCHES	FOOT	20	20															
										44002215	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3	SO YD	2280	2280					
25200110	SODDING, SALT TOLERANT	SQ YD	206	206							3/4"								
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8700	8700						44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	1320	1320					
40600370	LONGITUDINAL JOINT SEALANT	FOOT	9560	9560						44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	600	600					
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	30	30						44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	360	360					
	FLANGEWAYS																		
										60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	345	345															
	JOINT									60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1	EACH	1	1					
											FRAME, CLOSED LID								
40601005	HOT-MIX ASPHALT REPLACEMENT OVER	TON	480	480															
	PATCHES									60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2					
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5,	TON	1625	1625						60260100	INLETS TO BE ADJUSTED	EACH	5	5					
	MIX "D", N70																		
										60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2					
42001300	PROTECTIVE COAT	SO YD	327	327						60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	15	15					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SO FT	1625	1625															
	INCH									60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	5	5					
42400800	DETECTABLE WARNINGS	SQ FT	195	195						60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	30	30			20.	CDEC: 1: -	I TELES
																	△ =	SPECIALTY NON-PARTIC WORK (100%	CIPATING (STATE)
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	SUMMARY OF QUANTITIES			CI.I.E.	CC	DNSTRUCTIO	N TYPE CODE			SUMMAI	RY OF QUANTITIES			61	CO	NSTRUCTION TYPE	CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	SMART 80% FED 20% STATE 0005	100% STATE 0005				CODE NO		ITEM	UNIT	TOTAL QUANTITIES	SMART 80% FED 20% STATE 0005	100% STATE 0005			
60920012	PIPE CULVERTS TO BE CLEANED 12"	FOOT	250	250					70300100	SHORT TERM P	AVEMENT MARKING	FOOT	16450	16450				
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	18	18					70300150	SHORT TERM P	AVEMENT MARKING REMOVAL	SO FT	5485	5485				
66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3					70300211	TEMPORARY PA	VEMENT MARKING LETTERS AND	SO FT	550	550				
										SYMBOLS - PA	INT							
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION	L SUM	1	1														
	PLAN								70300221	TEMPORARY PA	VEMENT MARKING - LINE 4"-	FOOT	8910	8910				
										PAINT								
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION	L SUM	1	1														
	REPORT								70300241	TEMPORARY PA	VEMENT MARKING - LINE 6"-	FOOT	3225	3225				
										PAINT								
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	6	6														
									70300261	TEMPORARY PA	VEMENT MARKING - LINE 12"-	FOOT	4650	4650				
67100100	MOBILIZATION	L SUM	1	1						PAINT								
70102620	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1					70300281	TEMPODADY DA	VEMENT MARKING - LINE 24"-	FOOT	440	440				
10102020	STANDARD 701501	E SOW	•	1					10300201	PAINT	WEIGHT MANNETHO FINE 24	1001	140	140				
70102622	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1					70306120	TEMPORARY PA	VEMENT MARKING - LINE 4" -	FOOT	4200	4200				
	STANDARD 701502									TYPE III TAP	E							
70102625	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1				K	72000100	SIGN PANEL -	TYPE 1	SO FT	50	50				
	STANDARD 701606																	
								k	72800100	TELESCOPING	STEEL SIGN SUPPORT	FOOT	87	87				
70102635	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1														
	STANDARD 701701							k	78000100		C PAVEMENT MARKING -	SO FT	550	550				
										LETTERS AND	SYMBOLS							
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1					78000200	THEDMUDI VCT	C PAVEMENT MARKING - LINE	FOOT	8910	8910				
	2.VAIDAUD 101001							***************************************	18000200	4"	C : AVEMENT MARKING - LINE	F 00 1	0310	9310		* = ^ =	SPECIALTY NON-PARTIC	IPATI
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	SUMMARY OF QUANTITIES		<u> </u>		CO	NSTRUCTION	TYPE CODE		П		CIBBAA	DV OF OHANTITIES			<u> </u>	CO	NSTRUCTIO	N TYPE CO	DE	
	SUMMART OF QUANTITIES	1	TOTAL	SMART					 		5UMMA	RY OF QUANTITIES		1074	SMART					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005					CODE NO		ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	3225	3225]*[87800415	CONCRETE FOL	INDATION, TYPE E 36-INCH	FOOT	15	15					
	6"]		DIAMETER									
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	4650	4650]*	87900200	DRILL EXISTI	NG HANDHOLE	EACH	6	6					
	12"																			
									*	88102717	PEDESTRIAN S	IGNAL HEAD, LED, 1-FACE,	EACH	2	2					
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	440	440							BRACKET MOUN	ITED WITH COUNTDOWN TIMER								
	24"																			
									_ *	88200410	TRAFFIC SIGN	AL BACKPLATE, LOUVERED,	EACH	1	1					
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	220	220							FORMED PLAST	IC				1				
78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	220	220					*	88600100	DETECTOR LOC	P, TYPE I	FOOT	1591	1591					
	REMOVAL																			
									*	89502375	REMOVE EXIST	ING TRAFFIC SIGNAL	EACH	1	1					
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	89	89							EQUIPMENT									
	2" DIA.																			
									*	89502376	REBUILD EXIS	TING HANDHOLE	EACH	7	7					
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	48	48																
	3" DIA.								-	x0320050	CONSTRUCTION	LAYOUT (SPECIAL)	L SUM	1	1					
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	1	1						X0327611	REMOVE AND F	EINSTALL BRICK PAVER	SO FT	160	160					
	INSTALLATION																			
									:	x0540000	BRICK PAVERS		SO FT	100	100					
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	1272	1272																
	14 2C								<u> </u> *[X1400367	PEDESTRIAN S	IGNAL POST, 10 FT.	EACH	2	2					
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	766	766]*[X1400378	PEDESTRIAN S	IGNAL POST, 5 FT.	EACH	4	4					
	14 3C] [
									<u> </u>	X4400501	COMBINATION	CURB AND GUTTER REMOVAL AND	FOOT	125	125					
* 87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1	1							REPLACEMENT	LESS THAN OR EQUAL TO 10						ج ـ باد	DECTAL TO	I TEME
											FEET							Λ = N	PECIALTY ON-PARTIC ORK (100%	IPATING
FILE NAME =		SIGNED -		REVISED REVISED		<u> </u>		STATE OF	111	INOIS		US 14 (DIVISION ST) BRINK	ST TO EA	ST OF GAR	FIELD ROA	AD F.A.P.	SECTIO	N .	COUNTY TO	TAL SHEET EETS NO.
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	SUMMARY OF QUANTITIES			61	CC	ONSTRUCTIO	ON TYPE CODE			SUMM	ARY OF QUANTITIES			C1=	CO	NSTRUCTION TYPE (CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	SMART 80% FED 20% STATE 0005	100% STATE 0005				CODE NO		ITEM	UNIT	TOTAL QUANTITIES	SMART 80% FED 20% STATE 0005	100% STATE 0005			
x4400503	COMBINATION CURB AND GUTTER REMOVAL AND	FOOT	480	480														
	REPLACEMENT GREATER THAN 10 FEET																	
V55.33000		5007	750		750													-
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	750		750													
X6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	40	40														
	(SPECIAL)																	_
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12														-
																		_
x8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10	10														-
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH	FOOT	24	24														
	DIAMETER																	_
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	50		50													
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	78	78														
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	1	1														
	1																	
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			SI	GNING SCH	HEDULE			
COUNTY	STA.	0/5	SIGN		HOR I Z S I Z E	VERT SIZE	SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT
					IN	ΙN	SQ FT	FOOT
	35+63.5	42' LT	PEDESTRIAN	W11-2	30	30	6.25	14.50
	33103.3	72 [1	DIAGONAL <u>A</u> RROW	W16-7P	24	12	2.00	
	35+67	32.5' RT	PEDESTRIAN	W11-2	30	30	6.25	14.50
1	33+07	32.3 KI	DIAGONAL ARROW	W16-7P	24	12	2.00	14.30
NRY	6+18	15' LT	PEDESTRIAN	W11-2	30	30	6.25	14.50
Z	0+18	15 LI	DIAGONAL ARROW	W16-7P	24	12	2.00	14.30
MCHEI	6+18	15' RT	PEDESTRIAN	W11 - 2	30	30	6.25	14.50
M	0+10	12 KI	DIAGONAL ARROW	W16-7P	24	12	2.00	14.50
	12+82	14.5' LT	PEDESTRIAN	W11-2	30	30	6.25	14.50
	12+82	14.5 LI	DIAGONAL ARROW	W16-7P	24	12	2.00	14.50
	12.02	14 5 5	PEDESTRIAN	W11-2	30	30	6.25	14 50
	12+82	14.5' RT	DIAGONAL ARROW	W16-7P	24	12	2.00	14.50
			TOTAL		49.50	87.00		

	EARTH EXCAVATION S	SCHE	DULE			
			20200100	42001300	42400200	44000600
ID	LOCATION	CORNER	EARTH EXCAVATION	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SIDEWALK REMOVAL
			CU YD	SQ YD	SQ FT	SQ FT
1	US 14 (Division Street) at Diggins Street	NE	3.6	40.0	360	360
2	US 14 (Division Street) at Diggins Street	NW	2.9	31.8	286	286
3	US 14 (Division Street) at Diggins Street	SE	4.4	49.3	444	444
4	US 14 (Division Street) at Diggins Street (School)	SE	0.3	3.6	32	32
5	US 14 (Division Street) at Ayer Street	SW	1.0	11.1	100	100
6	US 14 (Division Street) at Ayer Street	SE	1.0	11.1	100	100
7	IL 173 (Diggins Street) at Garfield Road	SW	3.0	33.3	300	300
8	IL 173 (Brink Street) 300' west of US 14 (Division St) Grading & Shaping Ditches	N/A	2.0	0.00	0	0
	SUB-TOTAL =		18	180	1625	1625

ROADWAY	SCHEI	DULE				
	20200100	21101615	25200110	42001300	X4400501	X4400503
LOCATION	EARTH EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"	SODDING, SALT TOLERANT	PROTECTIVE COAT	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESSTHAN 10 FEET	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET
	CU YD	SQ YD	SQ YD	SQ YD	FOOT	FOOT
IL 173 (Brink Street) West of US 14 (Division Street)	2.0	98.0	98.0	147.0	125	275
Curb Ramps Improvement	16.0	108.0	108.0	180.0		205
SUB-TOTAL =	18	206	206	327	125	480

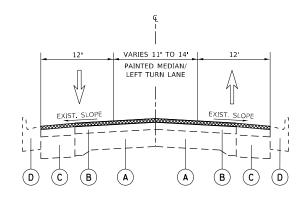
USER NAME = Nedal.Qarut	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2023	DATE -	REVISED -

US 14 (DIVISION ST) BRINK ST. TO EAST OF GARFIELD ROAD						F.A.P. RTE	COUNTY	TOTAL SHEETS	SHEET NO.		
							303	FAP 0303 22 RS3	McHENRY	40	7
		30	IILDULI	. 01 40	AIVIIIL	·			CONTRACT	NO. 62	2T63
	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS I	FED. AID PROJECT		

NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT

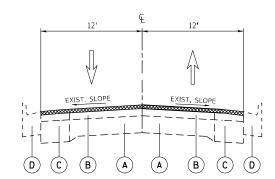
US 14 (DIVISION ST.) EXISTING TYPICAL

STA. 17+39 TO 23+86



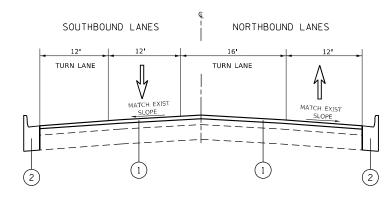
US 14 (DIVISION ST.) EXISTING TYPICAL

STA. 30+32 TO STA. 45+75



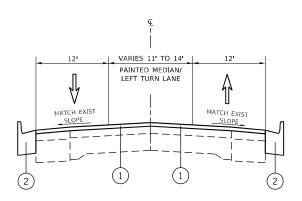
IL 173 (DIGGINS ST) EXISTING TYPICAL

STA. 0+00 TO STA. 15+75



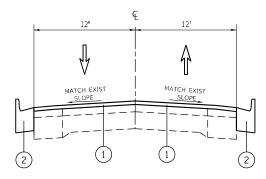
US 14 (DIVISION ST.) PROPOSED TYPICAL

STA. 17+39 TO 23+86



US 14 (DIVISION ST.) PROPOSED TYPICAL

STA. 30+32 TO STA. 45+75



IL 173 (DIGGINS ST) PROPOSED TYPICAL

STA. 0+00 TO STA. 15+75

LEGEND - EXISTING:

- A PORTLAND CEMENT CONCRETE PAVEMENT 10"±
- B HOT-MIX ASPHALT PAVEMENT 3.75"±
- C HOT-MIX ASPHALT BASE WIDENING 9"±
- (D) PORTLAND CEMENT CONCRETE COMBINATION CURB AND GUTTTER B6.24

LEGEND - PROPOSED

- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 11/2"
- 2) PORTLAND CEMENT CONCRETE COMBINATION CURB AND GUTTTER

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	QUALITY MANAGEMENT		
MIXTURE TYPE	AIR VOIDS(%) @ Ndes	PROGRAM (QMP)	
PAVEMENT			
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	4.0% @ 70 GYR.	OCP	
PATCHING			
CLASS D PATCHES (HMA BINDER IL-19 MM)	4% @ 70 GYR.	OC/QA	
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 MM)	4% @ 70 GYR.	OC/QA	
OMP DESIGNATION: OHALITY CONTROL/OHALITY ASSURANCE (OC/OA): OHALITY CON	TROL FOR PERFORMANCE (O	CP). PAY FOR PERFORMANCE (PFP)	

NOTES

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

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

NOTE 3: THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

NOTE 4: LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

USER NAME = Nedal.Qarut	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 14 - DIVISION STREET /BRINK STREET TO EAST OF GARFIELD STREET

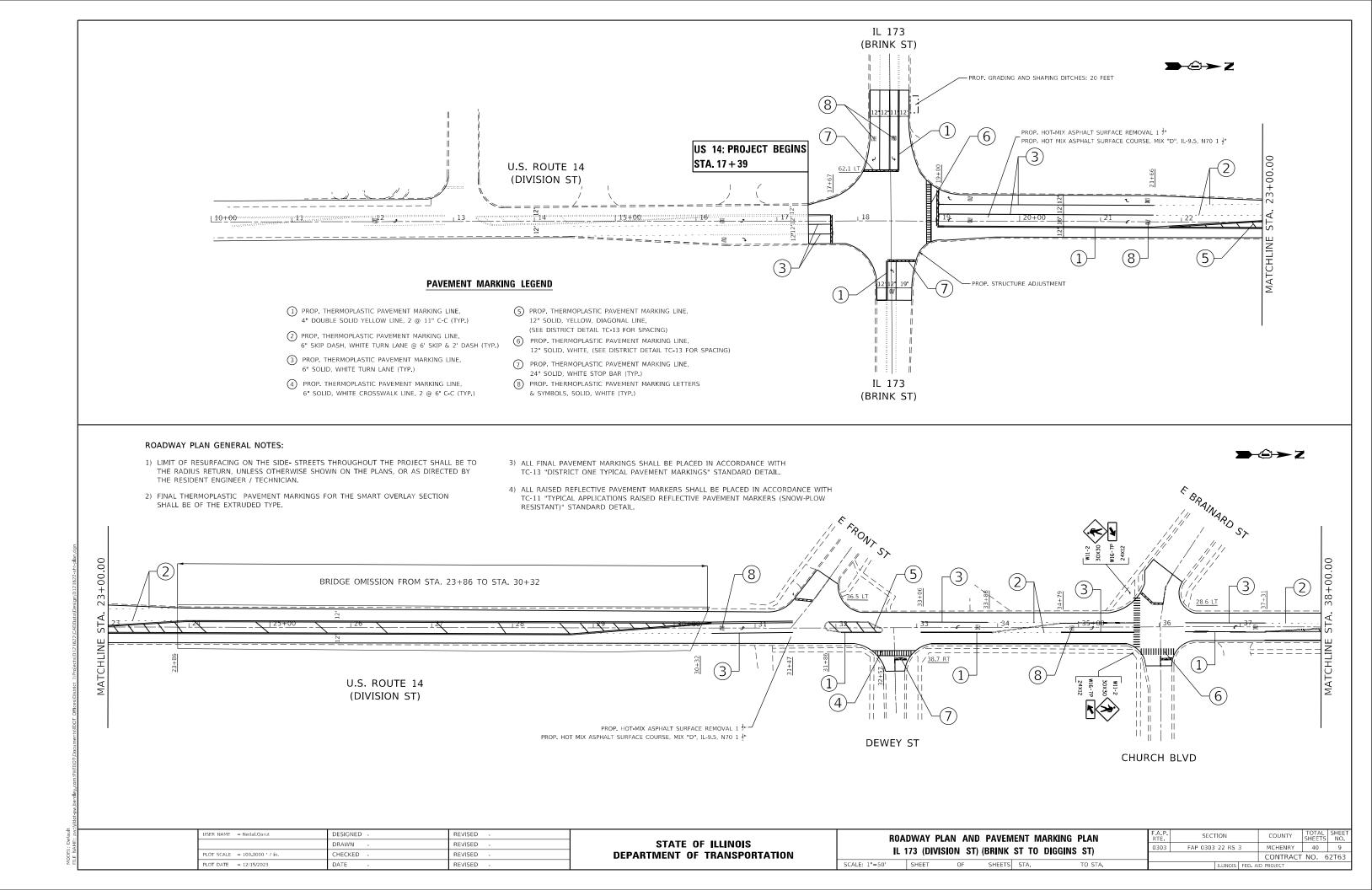
TYPICAL SECTION

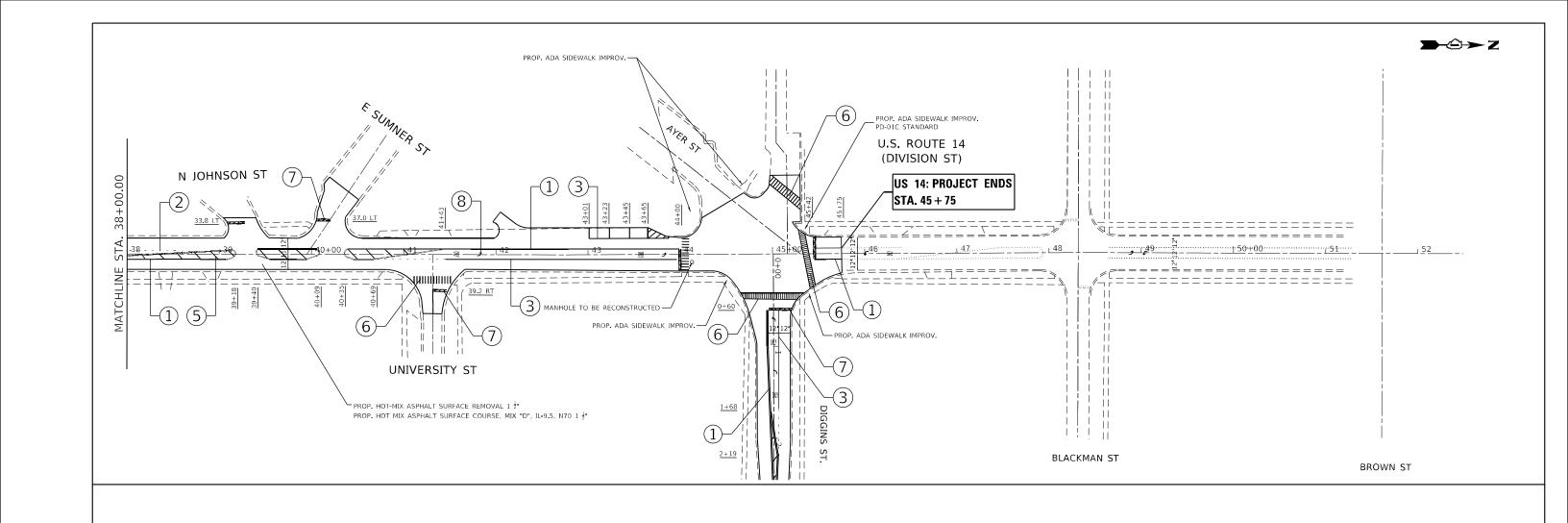
SCALE: SHEET OF SHEETS STA. TO STA.

FAP. SECTION COUNTY SHEETS NO.

303 FAP 0303 22 RS3 MCHENRY 40 8

CONTRACT NO. 62T63





PAVEMENT MARKING LEGEND

- (1) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- (2) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SKIP DASH, WHITE TURN LANE @ 6' SKIP & 2' DASH (TYP.)
- PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID, WHITE TURN LANE (TYP.)
- PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID, WHITE CROSSWALK LINE, 2 ⊚ 6' C-C (TYP.)
- (5) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID, YELLOW, DIAGONAL LINE, (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- (6) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID. WHITE, (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- 7) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID, WHITE STOP BAR (TYP.)
- PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, SOLID, WHITE (TYP.)

ROADWAY PLAN GENERAL NOTES:

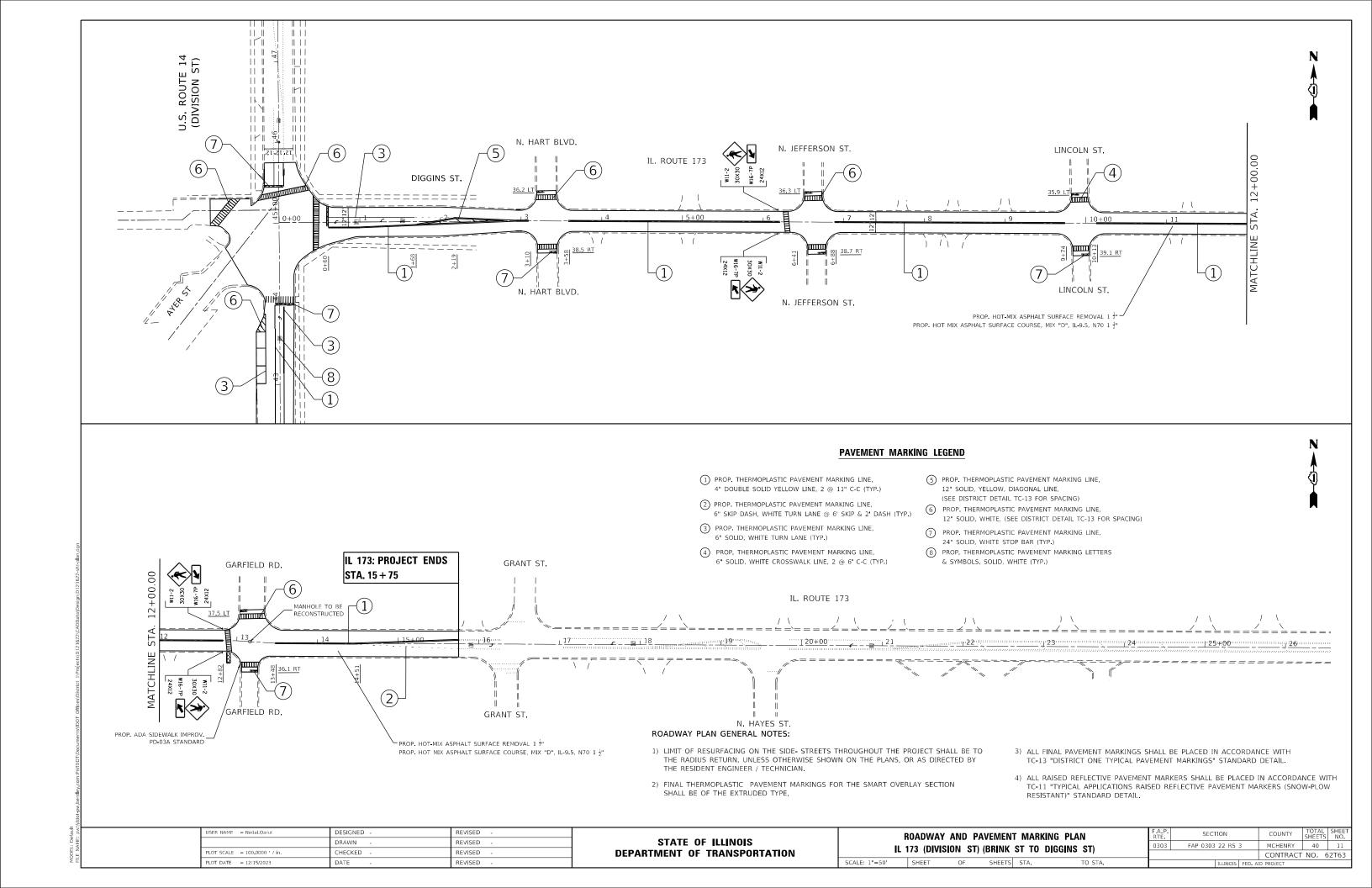
- 1) LIMIT OF RESURFACING ON THE SIDE- STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
- 2) FINAL THERMOPLASTIC PAVEMENT MARKINGS FOR THE SMART OVERLAY SECTION SHALL BE OF THE EXTRUDED TYPE.
- 3) ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
- 4) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

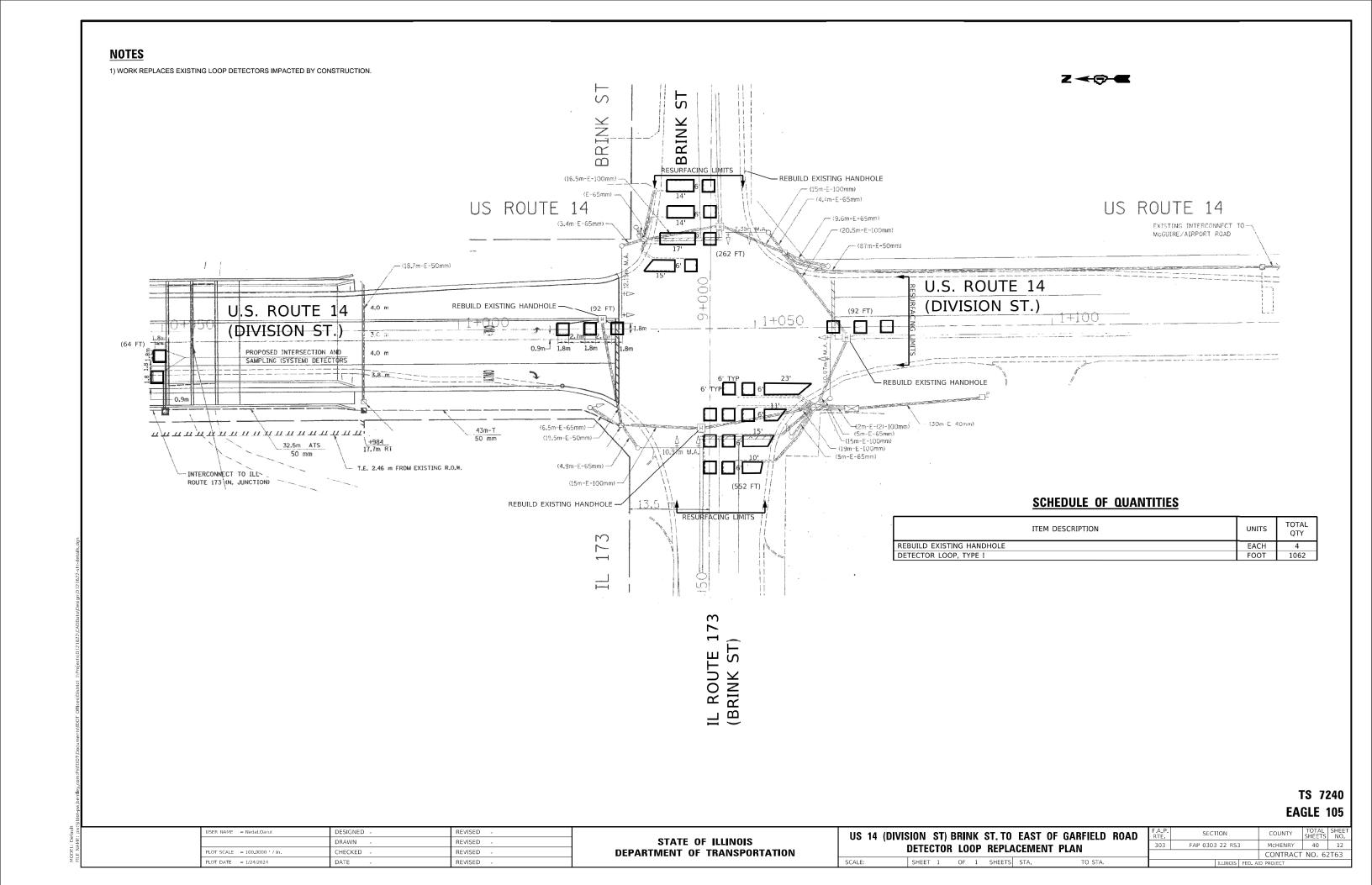
USER NAME = Nedal.Qarut	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PAVEMENT MARKIING PLAN
IL 173 (DIVISION ST) (BRINK ST TO DIGGINS ST)

SCALE: 1"=50" SHEET OF SHEETS STA. TO STA.





REMOVAL AND RELOCATION NOTES:

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

STEEL MAST ARM ASSEMBLY AND POST

EACH SIGNAL POST

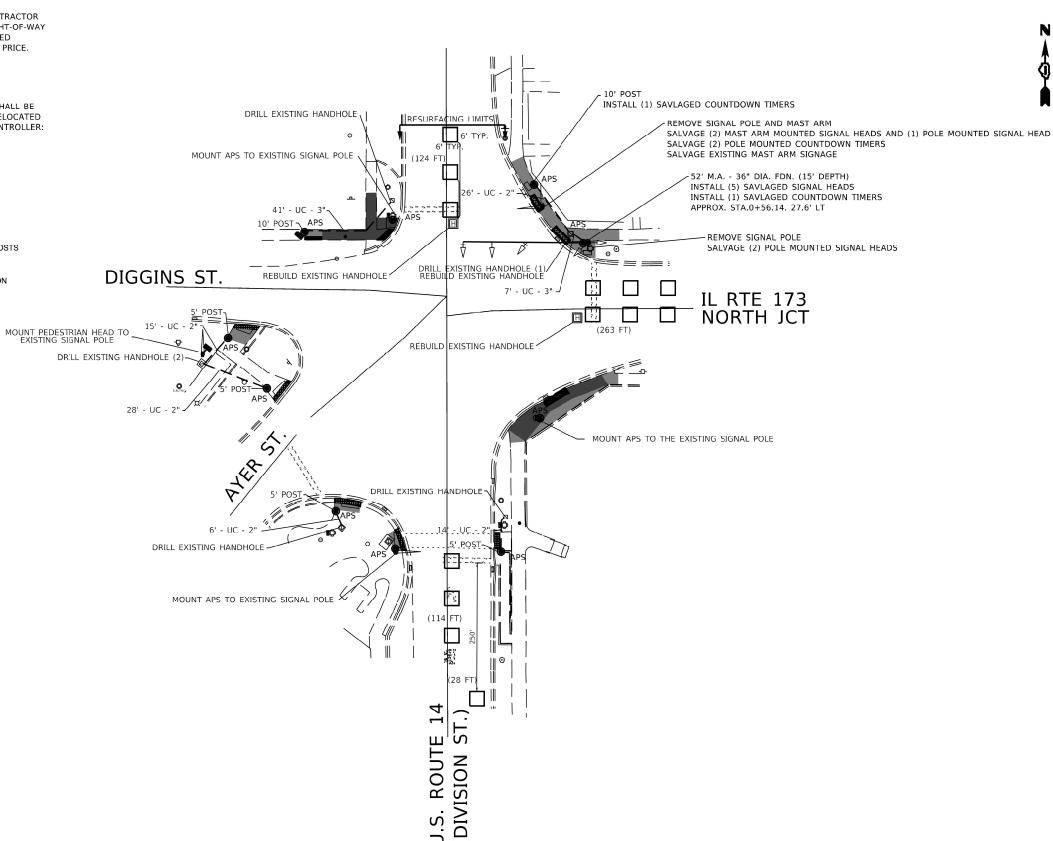
PEDESTRIAN PUSH-BUTTON

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

3-SECTION SIGNAL HEAD FACH 4-SECTION SIGNAL HEAD 5-SECTION SIGNAL HEAD EACH PEDESTRIAN SIGNAL HEAD EACH TRAFFIC SIGNAL BACKPLATE EACH

NOTES

- 1) REMOVE EXISTING PUSH BUTTONS AND ASSOCIATED WIRES.
- 2) APS PUSH BUTTONS TO BE INSTALLED ON EXISTING SIGNAL POSTS OR NEW STANDALONE POSTS WITH NEW NO.14 2C WIRE.
- 3) SEE ADA RAMP DETAILS FOR PROPOSED RAMP GEOMETRICS.
- 4) INSTALL SALVAGED SIGNAL HEADS AND PEDESTRIAN HEADS ON NEW SIGNAL POLE AND MAST ARM.
- 5) INSTALL SALVAGED PEDESTRIAN ON NEW 10 FOOT POST WITH NEW NO.14 3C WIRE.
- 6) THE 4-SECTION SIGNAL HEAD SHALL BE ORIENTATED TO FACE AYER STREET TRAFFIC. ADD TRAFFIC SIGNAL BACKPLATE.
- 7) PULL BACK IN NEAREST HANDHOLE AND PROTECT EXISTING SIGNAL HEAD WIRINGS PRIOR TO SIGNAL POLE REMOVAL. REINSTALL INTO NEW SIGNAL POLE AND MAST ARM.

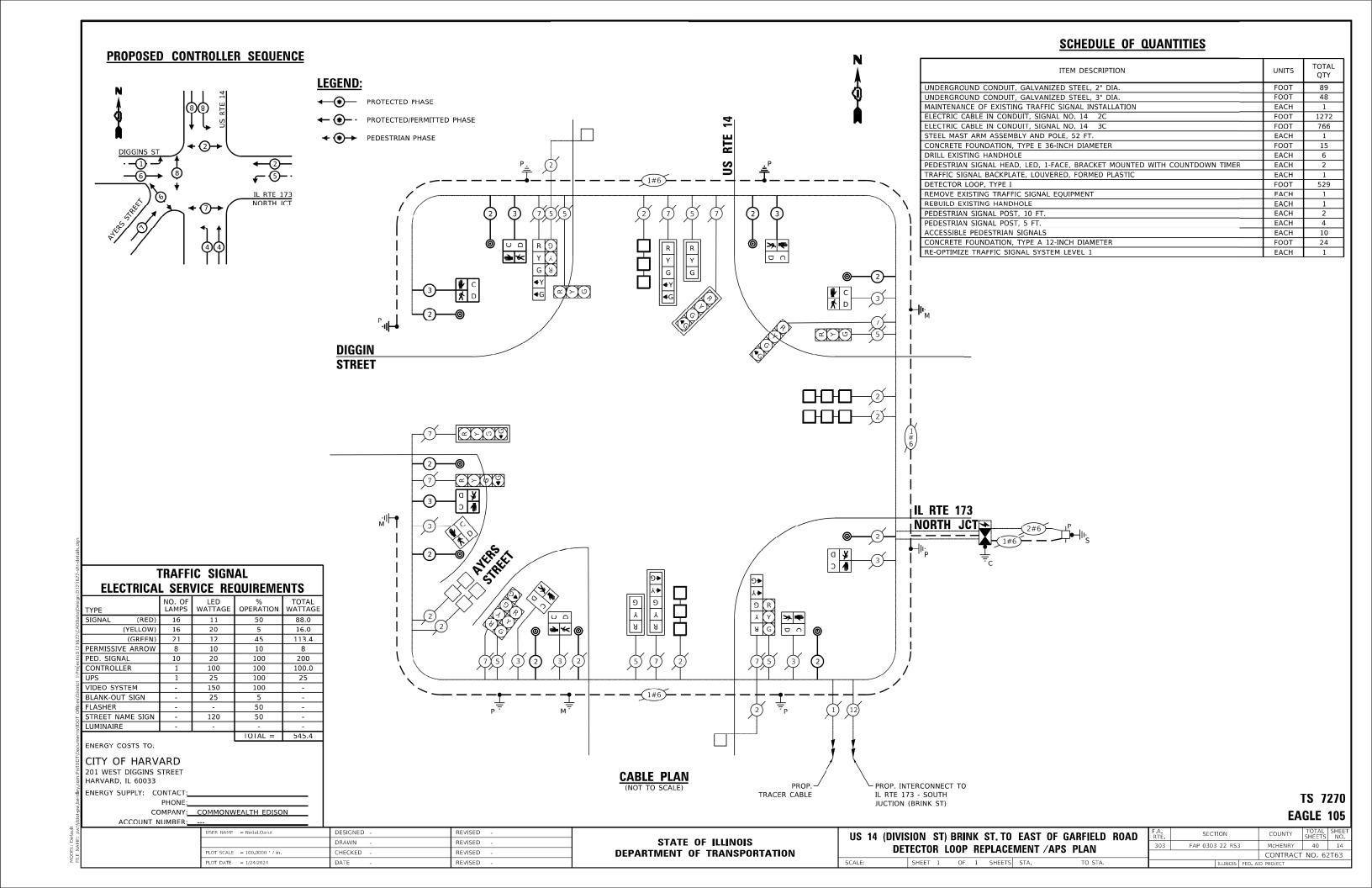


TS 7270 EAGLE 105

DESIGNED REVISED DRAWN REVISED HECKED REVISED PLOT DATE = 1/24/2024 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** US 14 (DIVISION ST) BRINK ST. TO EAST OF GARFIELD ROAD DETECTOR LOOP REPLACEMENT /APS PLAN SHEET 1 OF 1 SHEETS STA.

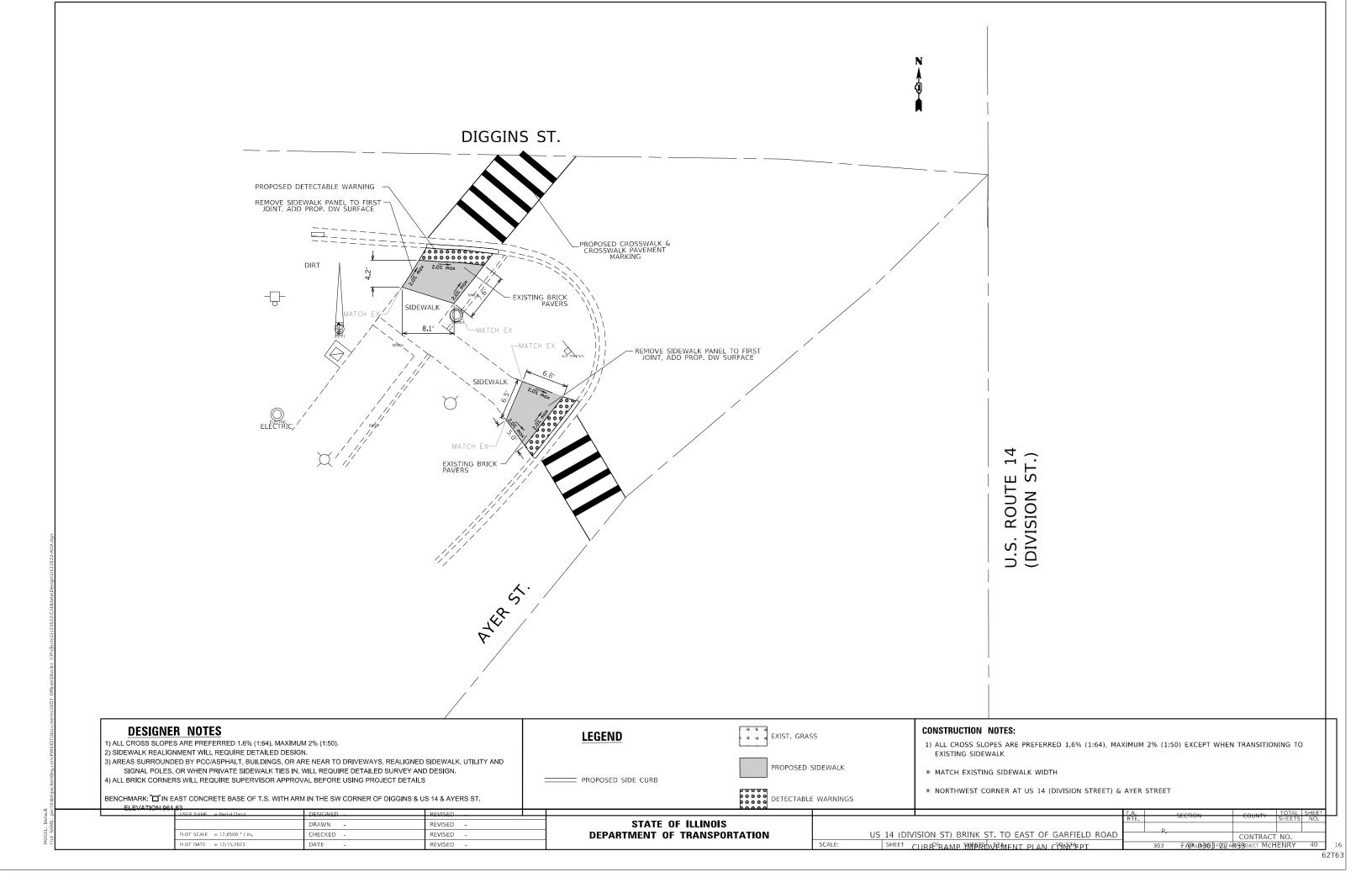
SECTION COUNTY FAP 0303 22 RS3 McHENRY 40 13 CONTRACT NO. 62T63

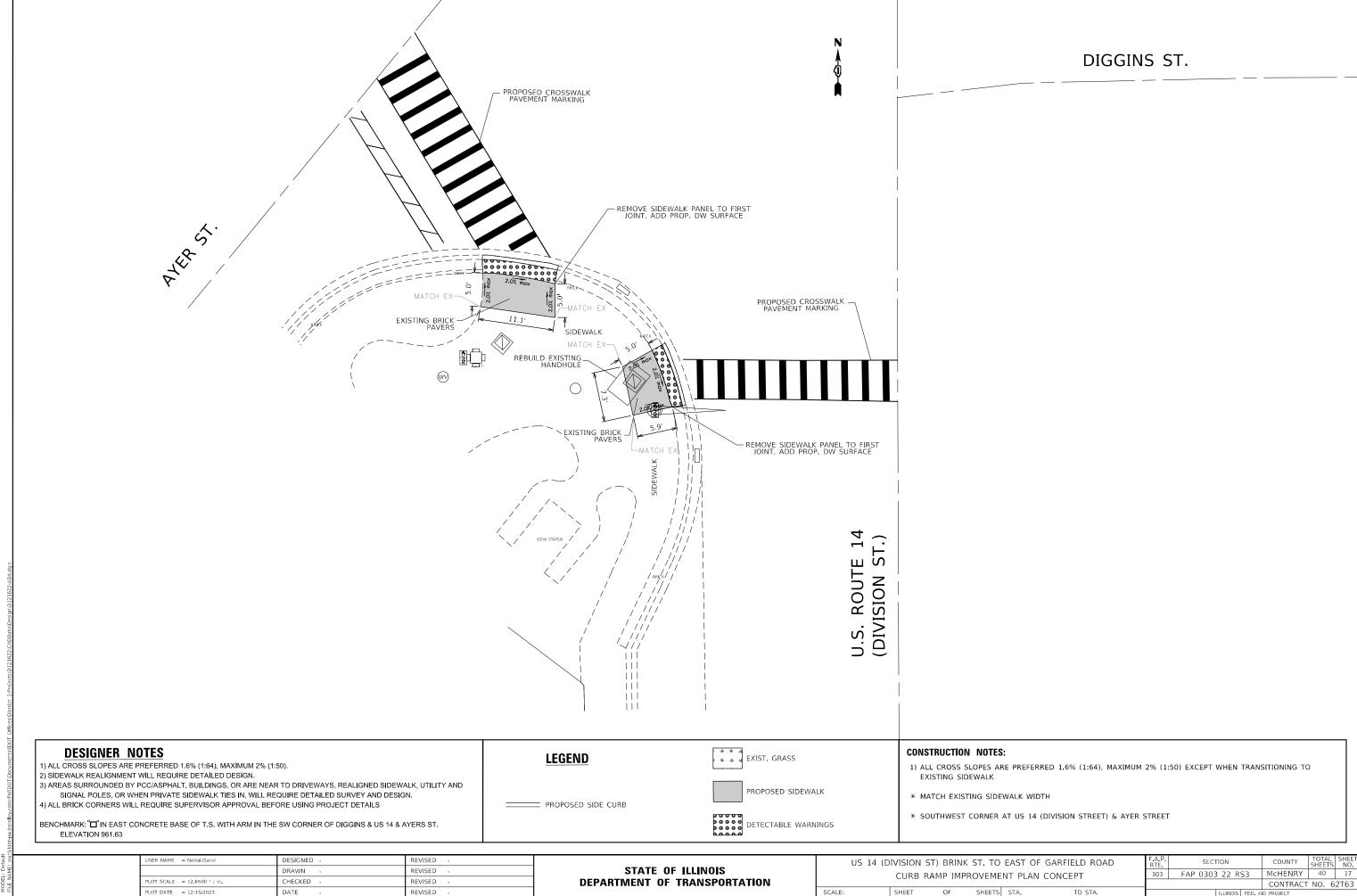


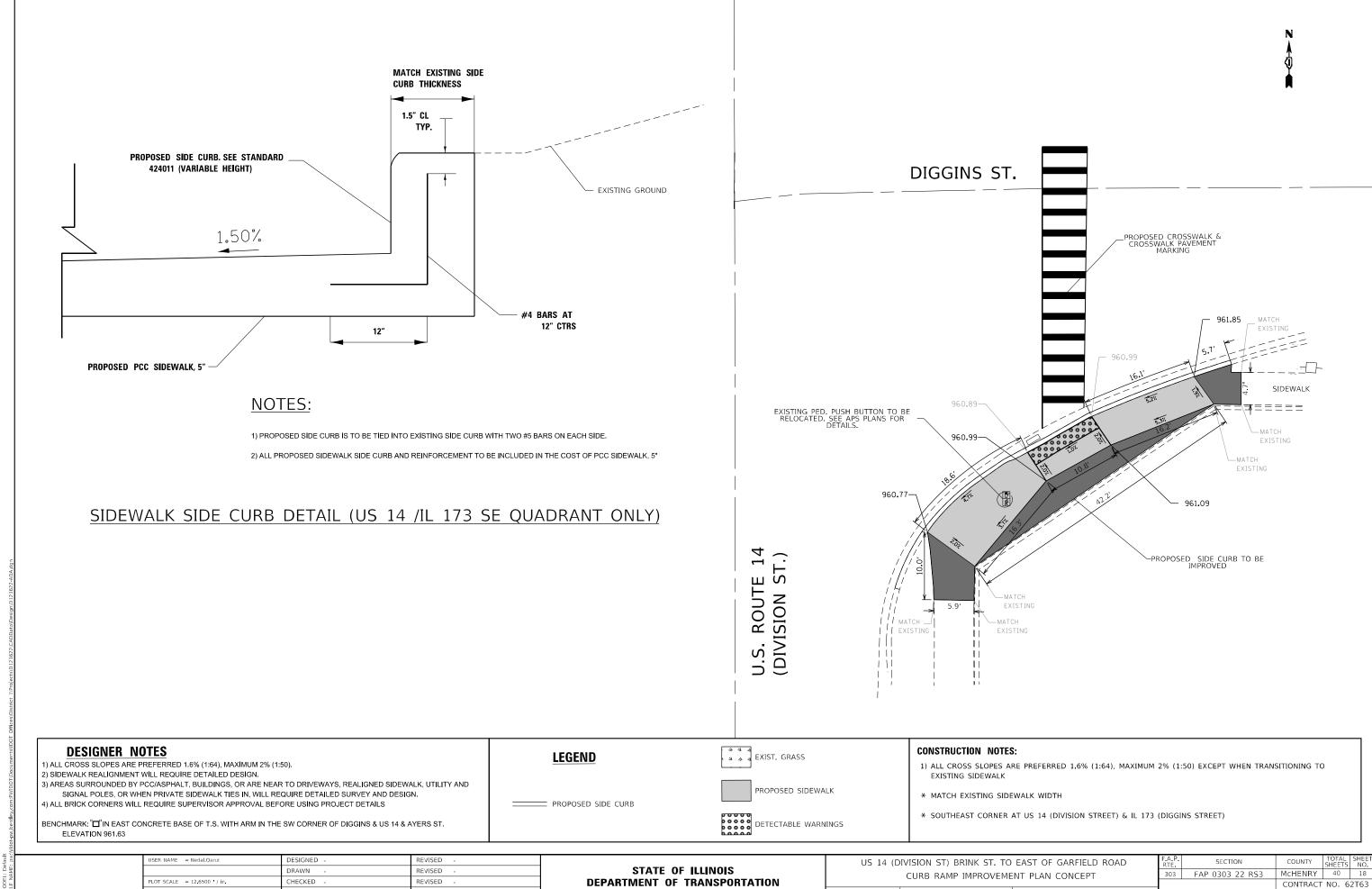
	CURB RAMPS IMPROVEMENT SCHEDULE															
	_		20200100	21101615	25200110	42001300	42400200	42400800	44000600	60260100	60255800	60266600	89500400	85000200	89502376	X4400503
ID	LOCATION	CORNER	EARTH EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"	SODDING, SALT TOLERANT	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNINGS	SIDEWALK REMOVAL	INLETS TO BE ADJUSTED	MANHOLE TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSEDLID	VALVE BOXES TO BE ADJUSTED	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	REBUILD EXISTING HANDHOLE	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET
			CU YD	SQ YD	SQ YD	SQ YD	SQ FT	SQ FT	SQ FT	EACH	EACH	EACH	EACH	EACH	EACH	FOOT
1	US 14 (Division Street) at Diggins Street	NE	3.6	24.0	24.0	40.0	360	34	360	2.0		1.0	1.0	_	1.0	52.0
2	US 14 (Division Street) at Diggins Street	NW	2.9	19.1	19.1	31.8	286	24	286	1.0		1.0	1.0	_	1.0	22.0
3	US 14 (Division Street) at Diggins Street	SE	4.4	29.6	29.6	49.3	444	22	444	2.0			1.0	1.0		61.5
4	US 14 (Division Street) at Diggins Street (School)	SE	0.3	2.1	2.1	3.6	32	16	32		1.0		1.0	_		0.0
5	US 14 (Division Street) at Ayer Street	SW	1.0	6.7	6.7	11.1	100	42	100		1.0			-		26.0
6	US 14 (Division Street) at Ayer Street	SE	1.0	6.7	6.7	11.1	100	37	100		_					24.0
/	IL 173 (Diggins Street) at Garfield Road	SW	3.0	20.0	20.0	33.3	300	20	300							16.0
	_															
	SUB-TOTAL =		16	108	108	180	1625	195	1625	5	1	2	4	1	2	205

 US 14 (DIVISION ST) BRINK ST. TO EAST OF GARFIELD ROAD CURB RAMPS IMPROVEMENT SCHEDULE

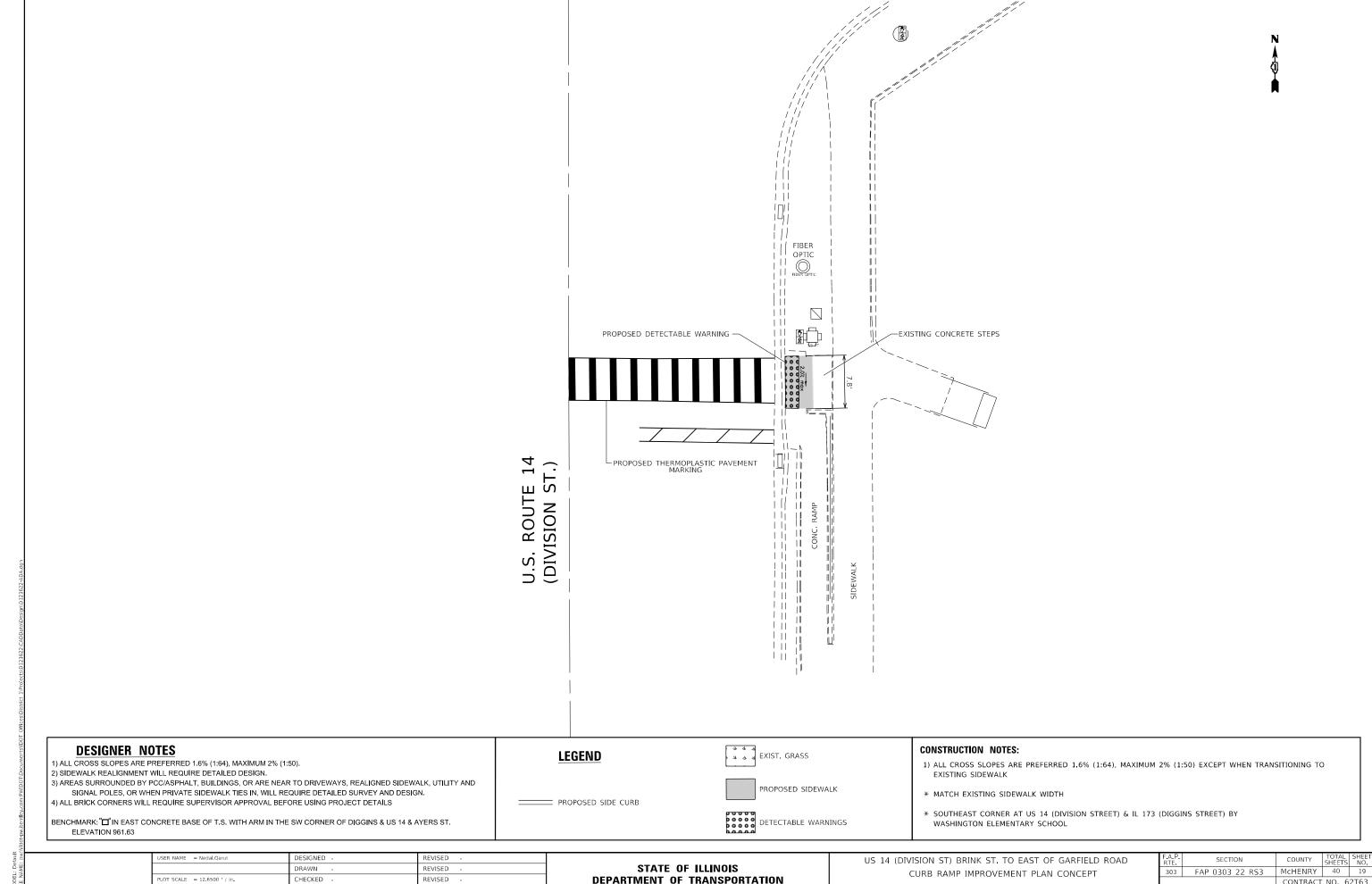
SCALE: SHEET OF SHEETS STA. TO STA.







OF SHEETS STA.



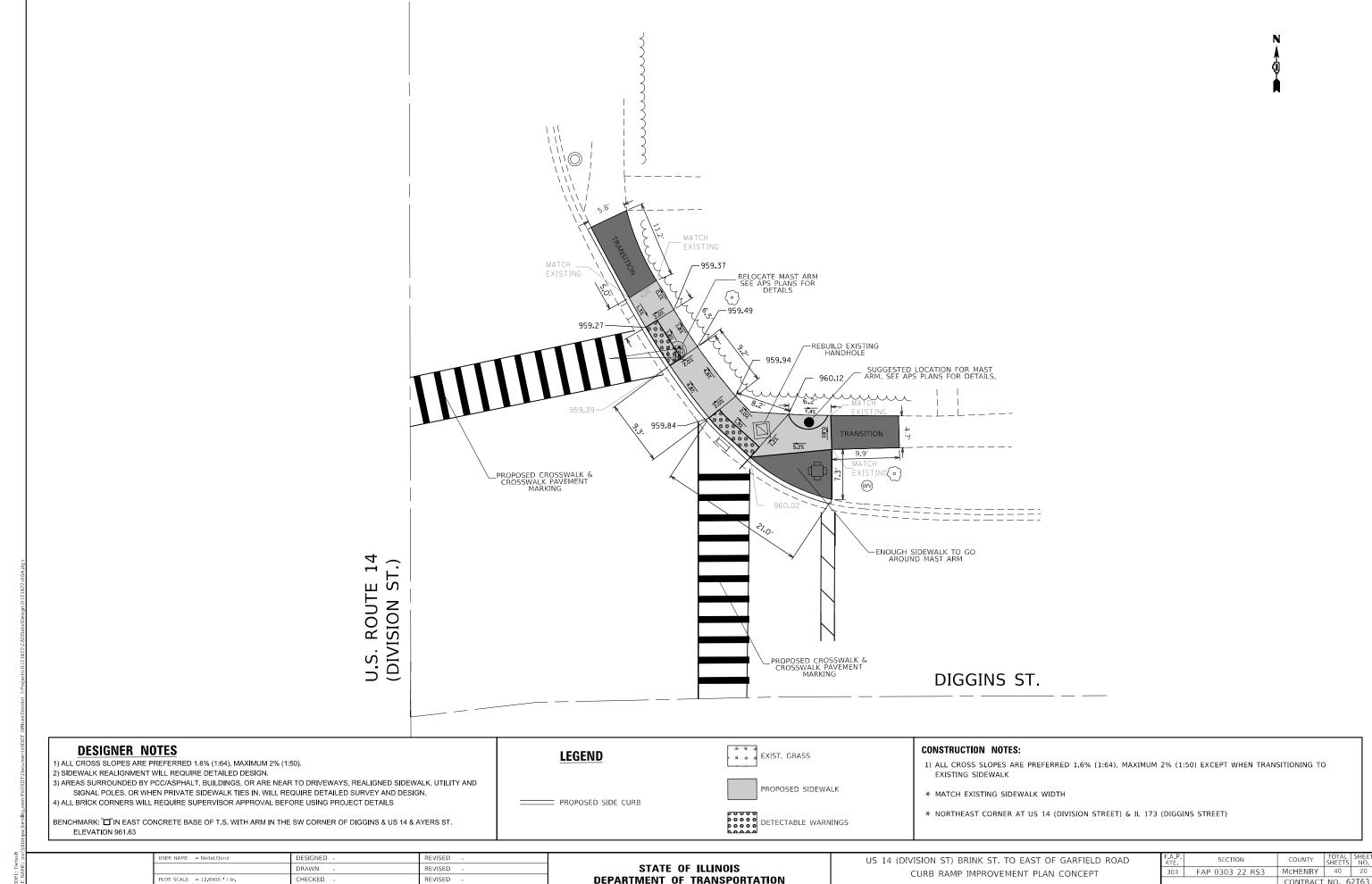
REVISED

DATE

DEPARTMENT OF TRANSPORTATION

SHEET OF SHEETS STA.

CONTRACT NO. 62T63

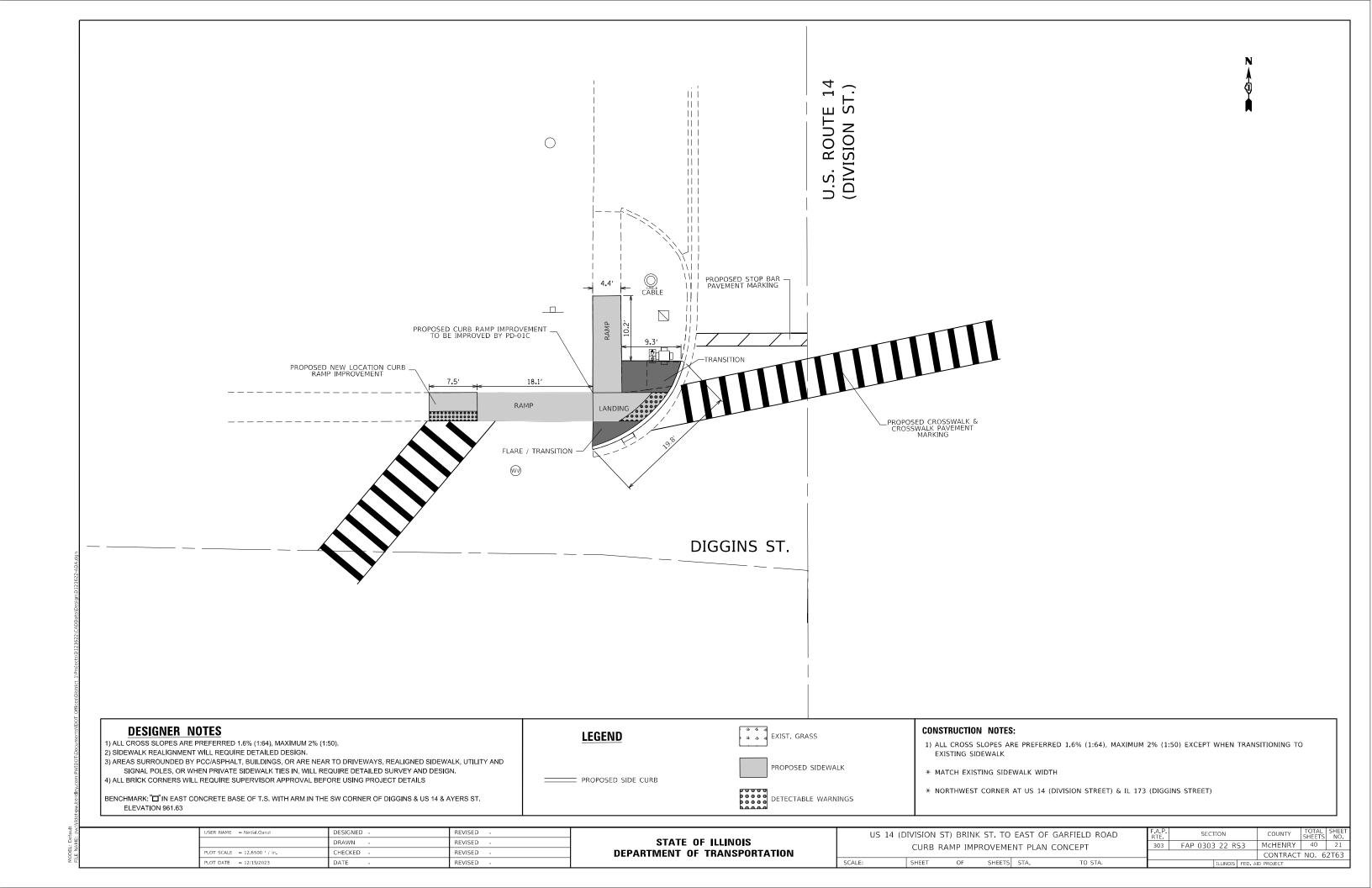


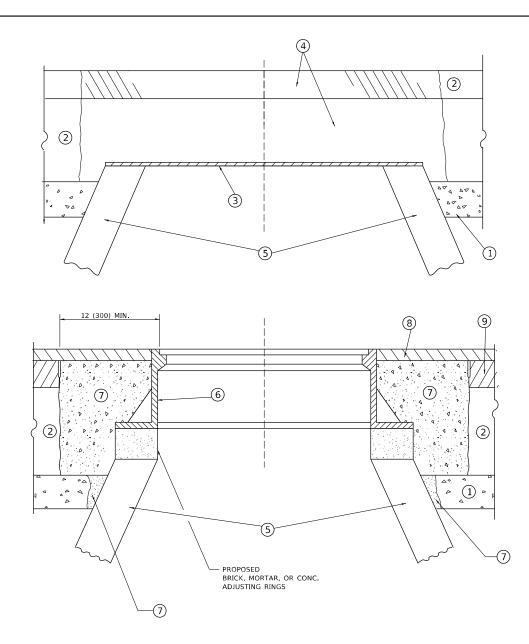
DATE

DEPARTMENT OF TRANSPORTATION

OF SHEETS STA.

CONTRACT NO. 62T63





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.
- 5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

STAGE 1 (BEFORE PAVEMENT MILLING)

CONSTRUCTION PROCEDURES

- 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. 3 (80) 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-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

(8) PROPOSED HMA SURFACE COURSE

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

MCHENRY

CONTRACT NO. 62T63

40 22

REVISED - R. BORO 03-09-11 JSER NAME = Nedal.Qarut DESIGNED -R. SHAH DRAWN REVISED - R. BORO 12-06-11 HECKED REVISED - K. SMITH 11-18-22 PLOT DATE = 12/15/2023 10-25-94 REVISED - K. SMITH 09-15-23 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

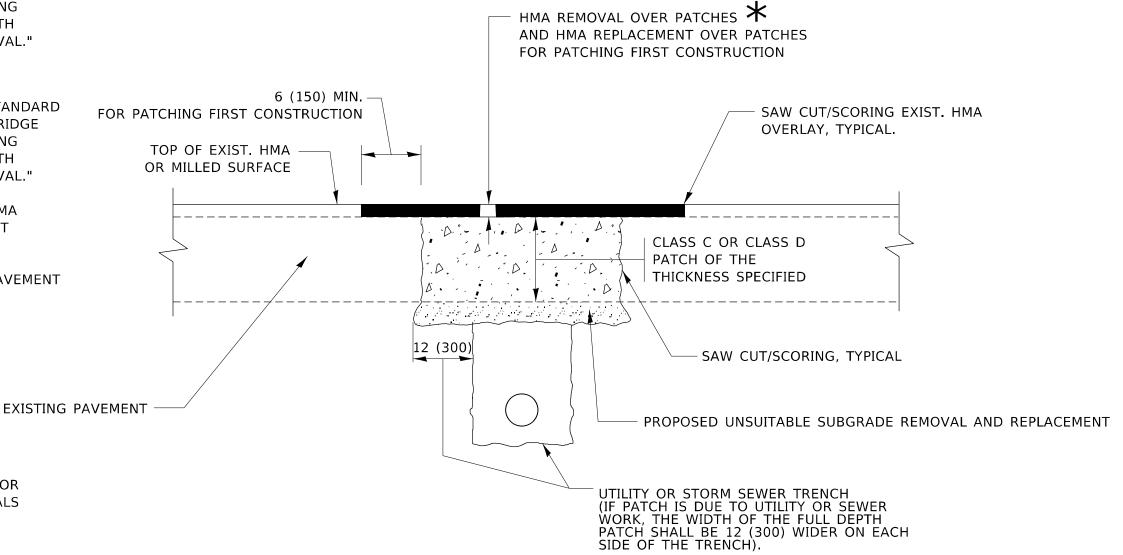
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING BD600-03 (BD-08) SHEET 1 OF 1 SHEETS STA.

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

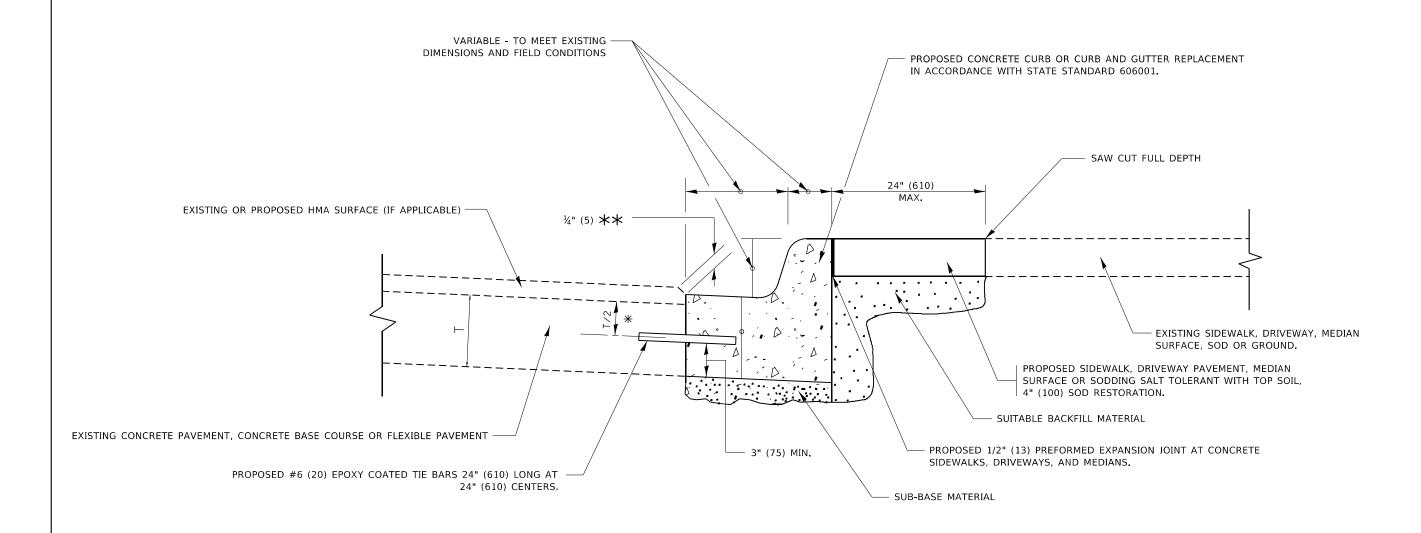
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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 = Nedal.Qarut	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07			PAVEMENT PATCHING FOR		F.A.P. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	REVISED - R. BORO 09-04-07	STATE OF ILLINOIS		HMA SURFACED PAVEMENT		303	FAP 0303 22 RS3	McHENRY	40	23
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED - K. ENG 10-27-08	DEPARTMENT OF TRANSPORTATION		HIVIA SUNFACED PAVEIVIENT		E	BD400-04 (BD-22)	CONTRACT	NO. 62	T63
PLOT DATE = 12/15/2023	DATE - 10-25-94	REVISED - K. SMITH 11-18-22		SCALE: NONE	SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED AI	D PROJECT		



- 💥 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

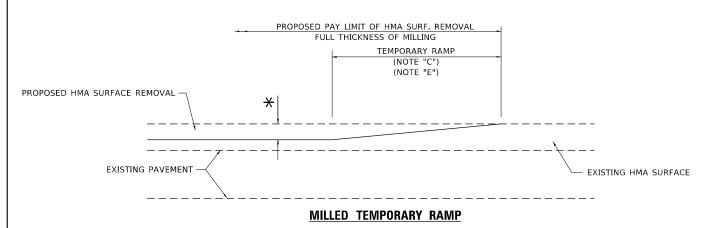
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = Nedal.Qarut	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 = 12/15/2023	DATE - 03-11-94	REVISED	-	K. SMITH 07-11-19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

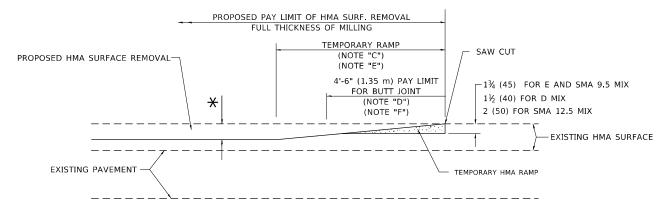
CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

SHEET 1 OF 1 SHEETS STA. TO ST



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

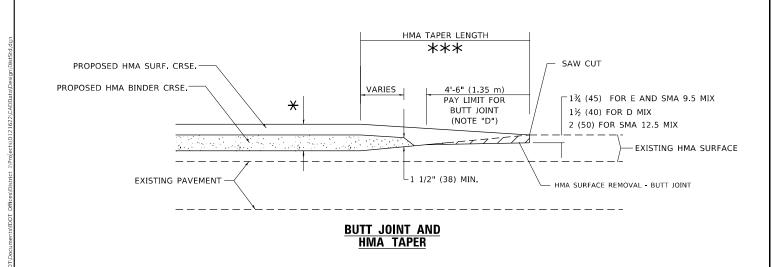


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

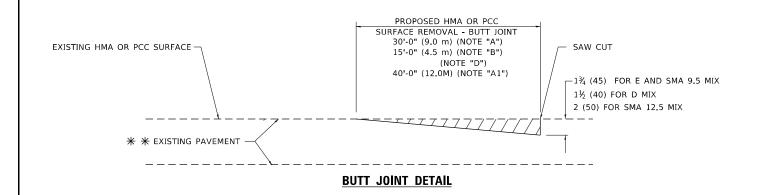
 USER NAME
 = Nedal.Oarut
 DESIGNED
 M. DE YONG
 REVISED
 A. ABBAS 03-21-97

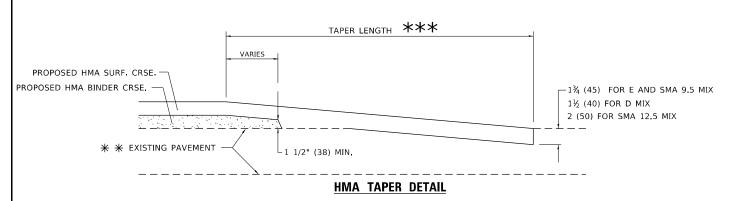
 DRAWN
 REVISED
 M. GOMEZ 04-06-01

 PLOT SCALE
 = 100.0000 ' / in.
 CHECKED
 REVISED
 R. BORO 01-01-07

 PLOT DATE
 = 12/15/2023
 DATE
 06-13-90
 REVISED
 K. SMITH 11-18-22

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

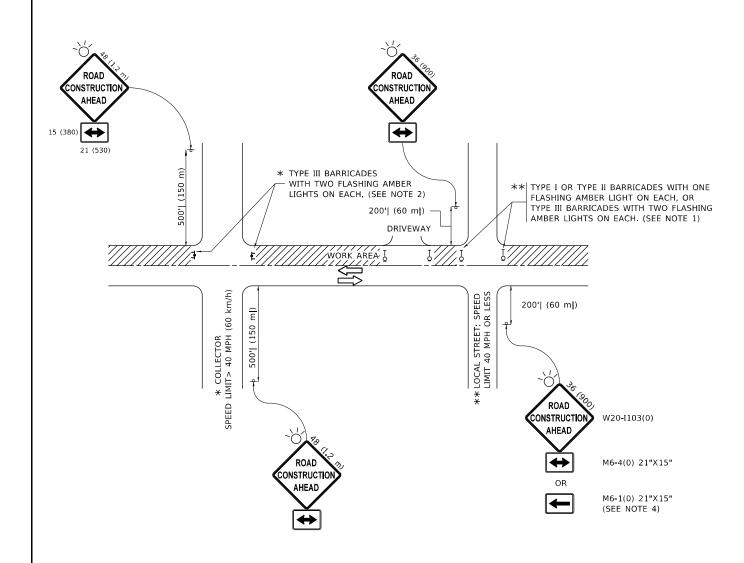
- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE,
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE 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"
- 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.
- 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
- 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
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

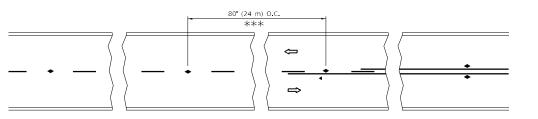
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = Nedal.Qarut	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 = 12/15/2023	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

					TION FOR DRIVEWAYS
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.

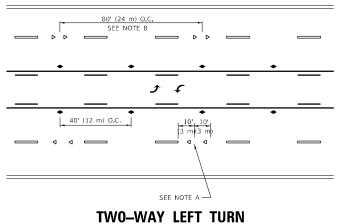
E 4 B					TOTAL	SHEE
F.A.P. RTE	SEC ⁻	ΠON		COUNTY	TOTAL	NO.
KIE.			SHEETS	NO.		
303	FAP 0303	3 22 RS3	McHENRY	40	26	
	TC-10	CONTRACT NO. 62T63				
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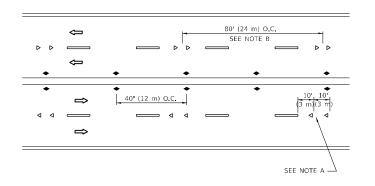
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

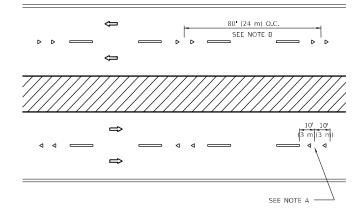
3 @ 40' (12 m) O.C. \Rightarrow LANE REDUCTION TRANSITION

SEE FIGURE 3B-14 MUTCD



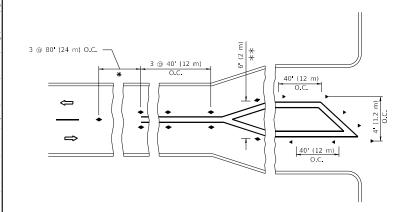
TW0-LANE/TW0-WAY

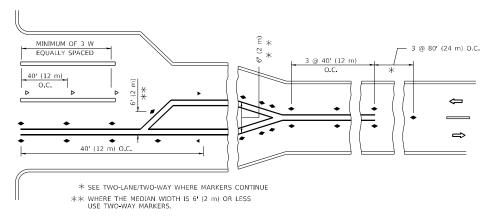




MULTI-LANE/UNDIVIDED







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.
- INVOLVED.

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

DESIGNED REVISED - T. RAMMACHER 03-12-99 DRAWN REVISED - T. RAMMACHER 01-06-00 CHECKED REVISED PLOT DATE = 12/15/2023 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 FAP 0303 22 RS3 MCHENRY 40 27 TC-11 CONTRACT NO. 62T63

SYMBOLS

ONE-WAY AMBER MARKER

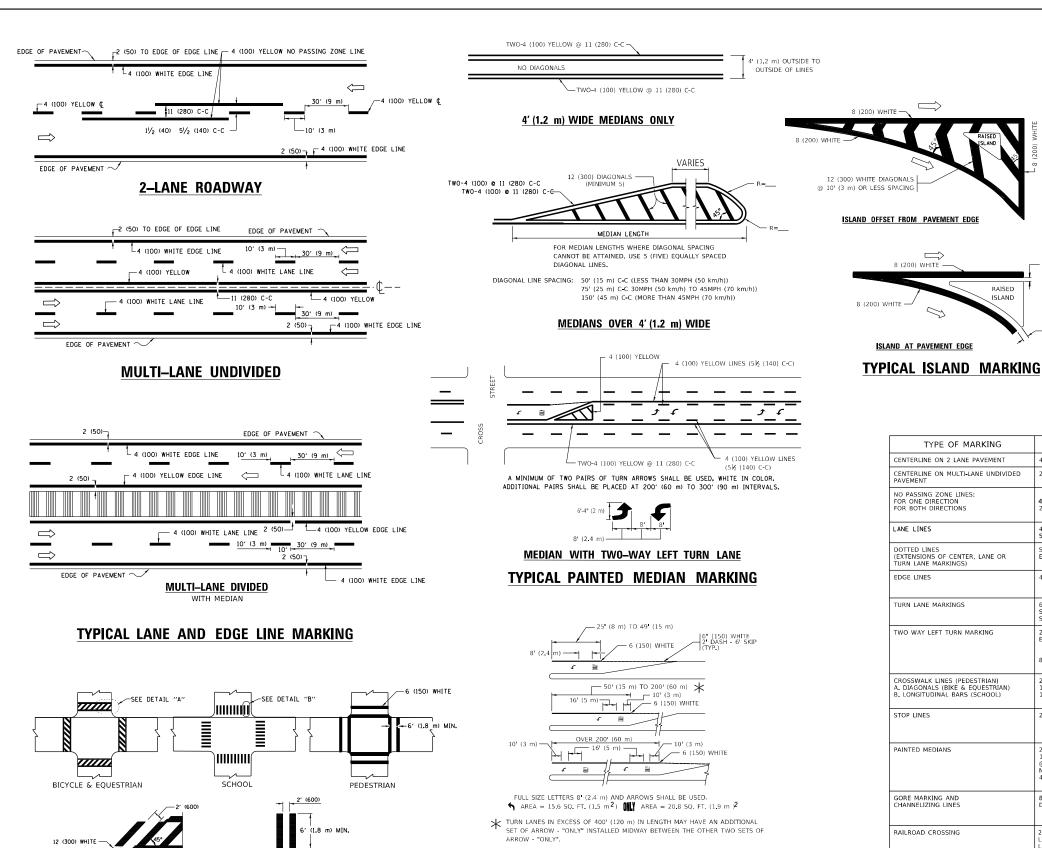
TWO-WAY AMBER MARKER

ONE-WAY CRYSTAL MARKER (W/O)

YELLOW STRIPE

■ WHITE STRIPE

- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE



TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

EVERS DESIGNED -C. JUCIUS 09-09-09 DRAWN REVISED C. JUCIUS 07-01-13 HECKED REVISED DATE

12 (300) WHITE

DETAIL "B"

- 6 (150) WHITE

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

DETAIL "A"

DEPARTMENT OF TRANSPORTATION

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		F.A.P. RTE	SECTION						
	TYPICAL PAVEMENT MARKINGS								
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SCALE: NONE	SHEET 1	OF 2	SHEETS	STA.	TO STA.		ILLINOIS FED. A	íD	

D(FT) SPEED LIMIT 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**

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' (500) 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: 115' (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 PEACH "X"=54.0 SQ. FT. (5.0 m P
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	SEE DETAIL	SOLID	WHITE	30.4 SF

RAISED

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

MCHENRY

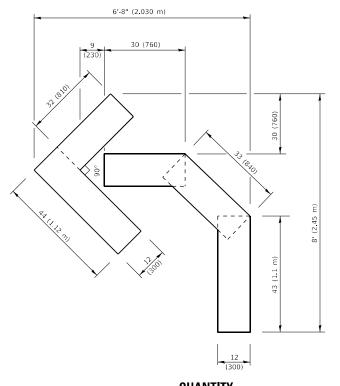
CONTRACT NO. 62T63

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

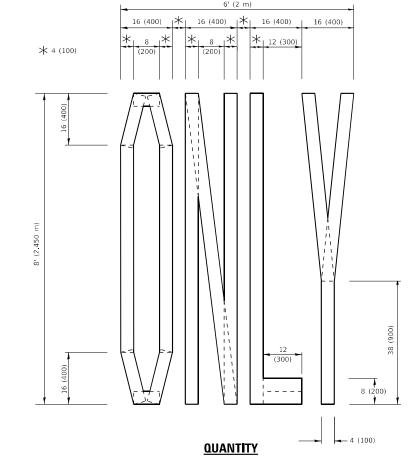
STATE OF ILLINOIS

EFT AND U TURN

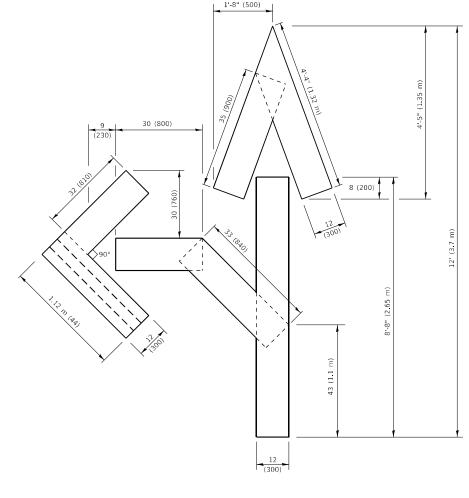


QUANTITY

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)

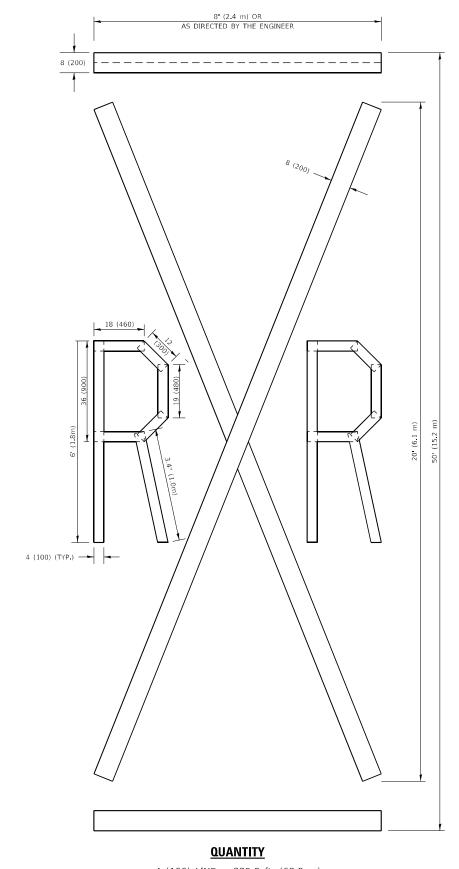


QUANTITY

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)

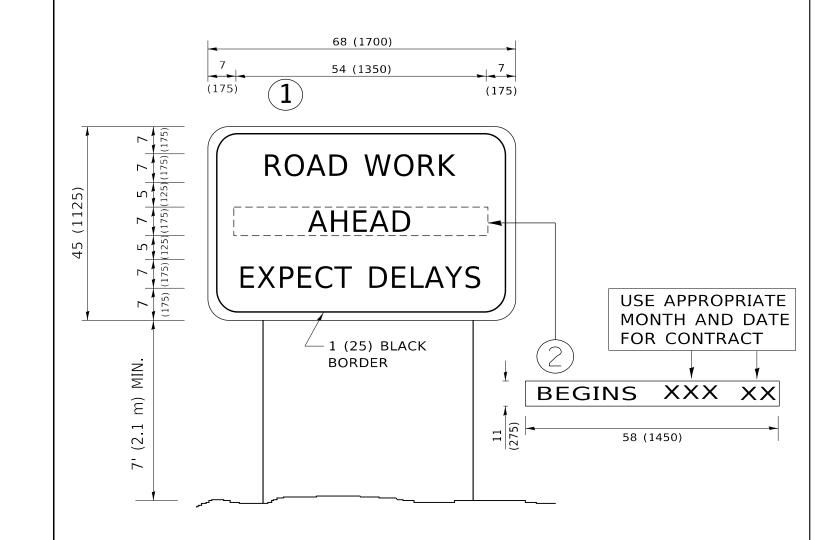
> All dimensions are in inches (millimeters) unless otherwise shown.

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS SCALE: NONE SHEET 1 OF 1 SHEETS STA.

F.A.P. RTE	SEC ⁻	LION		COUNTY	TOTAL SHEETS	SHEET NO.
303	FAP 0303	3 22 RS3		McHENRY	40	29
TC-16			CONTRACT NO. 62T63			

DESIGNED -REVISED - T. RAMMACHER 03-02-98 DRAWN REVISED - E. GOMEZ 08-28-00 PLOT SCALE = 100.0000 / in CHECKED REVISED - E. GOMEZ 08-28-00 PLOT DATE = 12/15/2023 REVISED - A. SCHUETZE 09-15-16 DATE 09-18-94

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



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 1

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.

USER NAME = Nedal.Qarut	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 = 12/15/2023	DATE -	REVISED	-	C. JUCIUS 01-31-07

STATE	OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

				F.A.P. RTE	SECTION			COUNTY		
INFORMATION SIGN		303	FAP 0303	22 RS3	3	McHENRY				
1141	UIIIV	IAIJUN	Sign			TC-22			CONTRACT	N
OF	1	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT	

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

	<u>EXISTING</u>	<u>PROPOSED</u>	<u>ITEM</u>	<u>EXISTING</u>	PROPOSED	ITEM	<u>EXISTING</u>	<u>PROPOSED</u>
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		R R Y
COMMUNICATION CABINET	ECC	CC	HEAVY DUTY HANDHOLE					Y G G G 4 Y 4 G 4 G
MASTER CONTROLLER	EMC	MC	-SQUARE -ROUND	H ®	H + +		F P	◆ G ◆ G
MASTER MASTER CONTROLLER	EMMC	ммс	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE	6 6 6 6	R R R
UNINTERRUPTABLE POWER SUPPLY	4	9	JUNCTION BOX		•	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION	- <u>-</u> -	- ■ -P	RAILROAD CANTILEVER MAST ARM	XOXXX	X eX X			AY AY
-(P) POLE MOUNTED SERVICE INSTALLATION			RAILROAD FLASHING SIGNAL	∑⊙ ∑	X•X		P RB	₽ RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	$\mathbf{x}^{G} \mathbf{x}^{GM}$	RAILROAD CROSSING GATE	X 0 X>	X• X	PEDESTRIAN SIGNAL HEAD		•
TELEPHONE CONNECTION	ET	Т	RAILROAD CROSSBUCK	★	*	AT RAILROAD INTERSECTIONS	©	秀
STEEL MAST ARM ASSEMBLY AND POLE		•——	RAILROAD CONTROLLER CABINET		> ∢	PEDESTRIAN SIGNAL HEAD	© C	₩ C
ALUMINUM MAST ARM ASSEMBLY AND P	POLE		UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			WITH COUNTDOWN TIMER		* •
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o ; Œ—	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST	0	 ● BM 	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		
-(BM) BARREL MOUNTED - TEMPORARY			INTERSECTION ITEM	I	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED	(5)	9)
WOOD POLE	\otimes	•	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	
GUY WIRE	>	>	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER	_(1)_	
SIGNAL HEAD WITH BACKBLATE		→	ABANDON ITEM		Α	NO. 14 1/C		
SIGNAL HEAD WITH BACKPLATE	+t> P P	+ > -> P +> P	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u> </u>	— <u>c</u> —
SIGNAL HEAD OPTICALLY PROGRAMMED			MAST ARM POLE AND		RMF	VENDOR CABLE	<u> </u>	
FLASHER INSTALLATION -(FS) SOLAR POWERED	op ^F op ^{FS} op ^F op ^{FS}	•► FS FS	FOUNDATION TO BE REMOVED SIGNAL POST AND		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		(6#18)
PEDESTRIAN SIGNAL HEAD	-0	-1	FOUNDATION TO BE REMOVED DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE	—	— <u>(12F)</u> —
PEDESTRIAN PUSH BUTTON						-NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		_
-(APS) ACCESSIBLE PEDESTRIAN PUSH B			PREFORMED DETECTOR LOOP	РР	P P	-NO. 02.3/123, MM12F 3M24F		— (24F)—
RADAR DETECTION SENSOR	R]	R	SAMPLING (SYSTEM) DETECTOR	SS	s s			
VIDEO DETECTION CAMERA	(V)	V ■	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS (IS)	IS IS			
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	± ^C ± ^M ± ^P ± ^S	
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ	WIRELESS DETECTOR SENSOR	®	®	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\bowtie	~	WIRELESS ACCESS POINT		-			
CONFIMATION BEACON	o-()	•-1						
WIRELESS INTERCONNECT	○ + 	<u>•++ </u>						
	TER ERR	RR						

MODEL: Default

REVISED -

REVISED

REVISED

DRAWN - IP

DATE - 9/29/2016

CHECKED -

PLOT SCALE = 100,0000 ' / in.

PLOT DATE = 12/15/2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

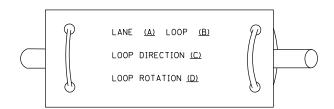
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 1 OF 7 SHEETS STA. TO STA.

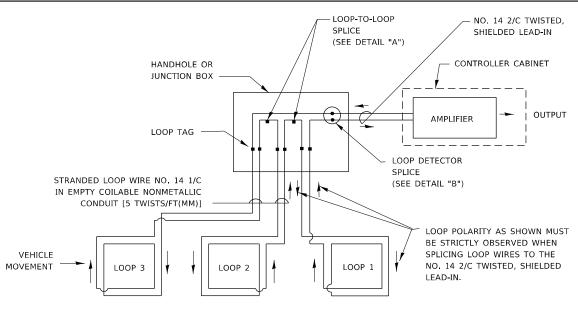
LOOP DETECTOR NOTES

- 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

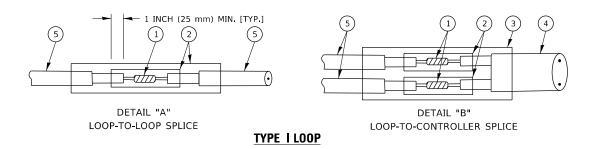


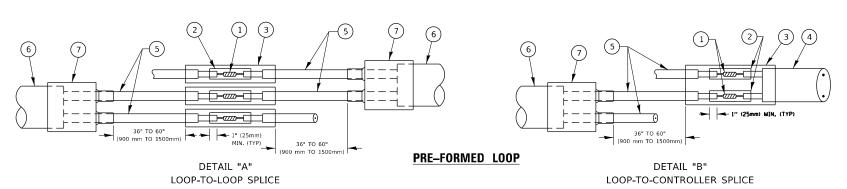
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

MCHENRY

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USER NAME = Nedal,Qarut	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2023	DATE -	REVISED -

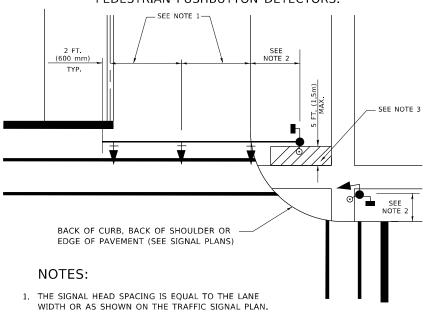
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE FAP 0303 22 RS3 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 62T63 SHEET 2 OF 7 SHEETS STA.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

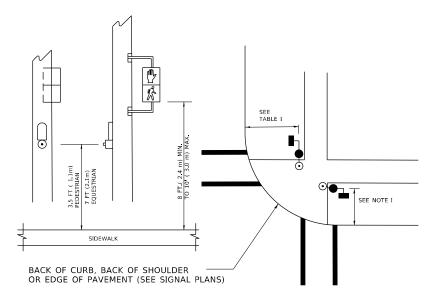
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



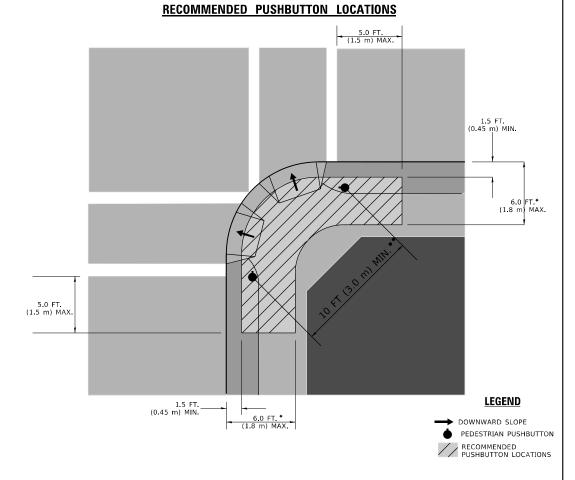
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE 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:

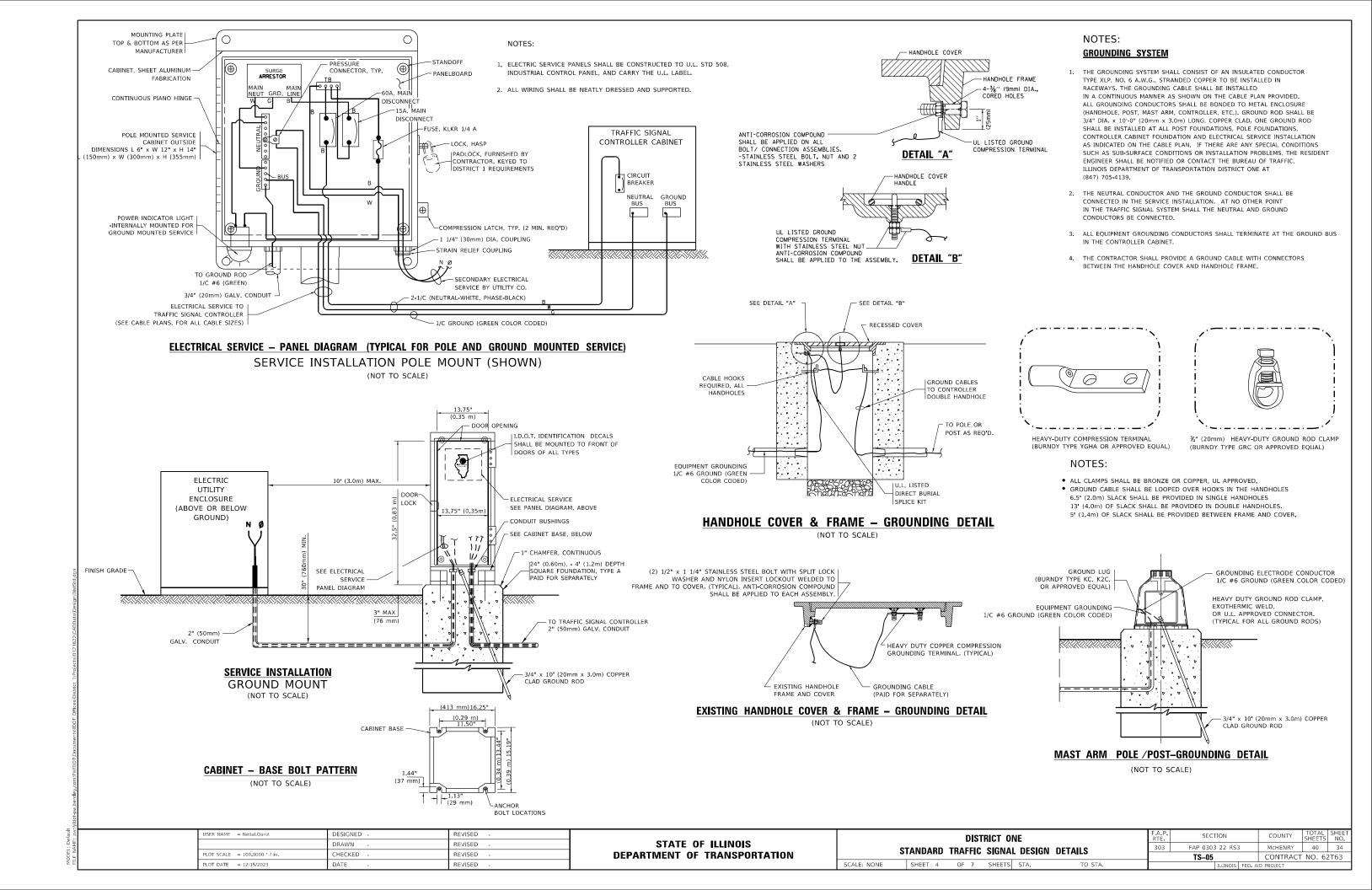
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 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.

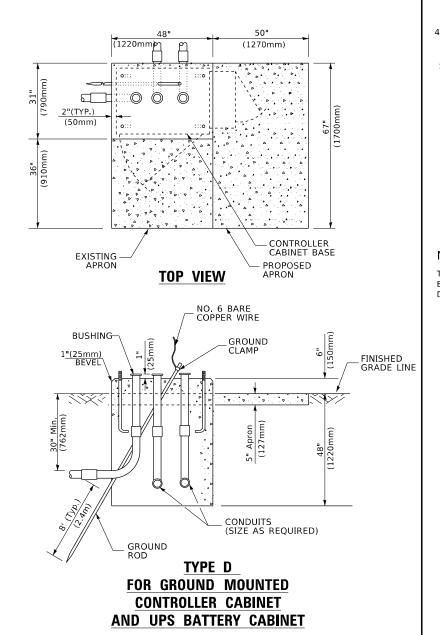
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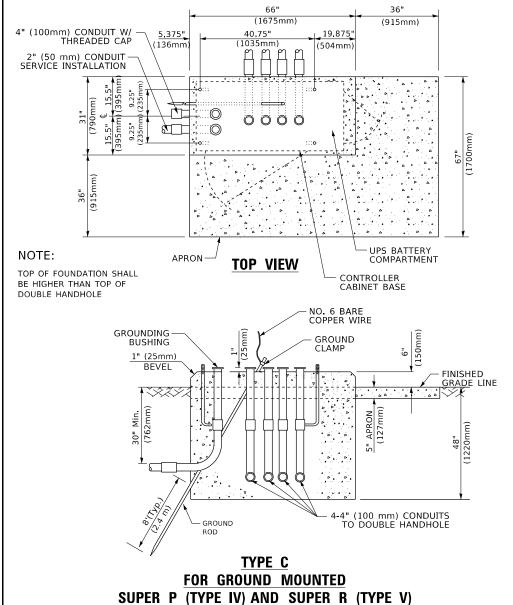
USER NAME = Nedal.Qarut	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2023	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

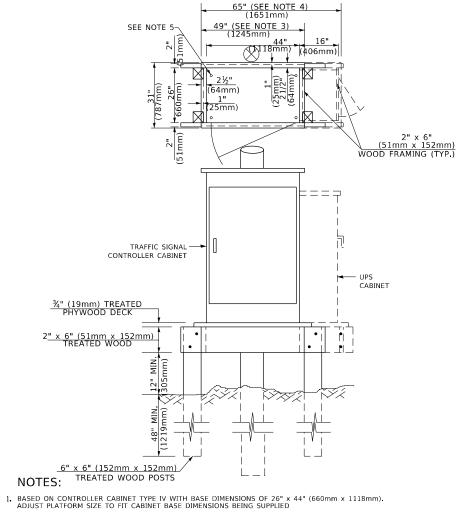
DISTRICT ONE					F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		303	FAP 0303 22 RS3	McHENRY	40	33				
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS-05	CONTRACT NO. 62T63		2T63				
	SHEET 3	OF 7	' SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		







CONTROLLER CABINETS



- 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

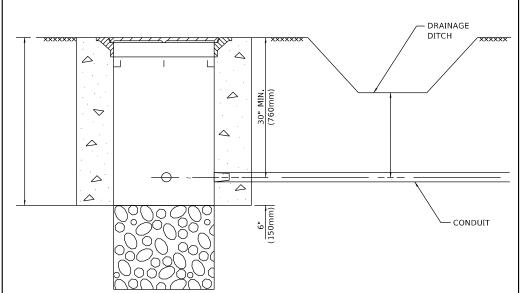
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars	
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)	
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)	
30′ (9.1 m) and less than 40′ (12.2 m)	11'-0'' (3.4 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:

- 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

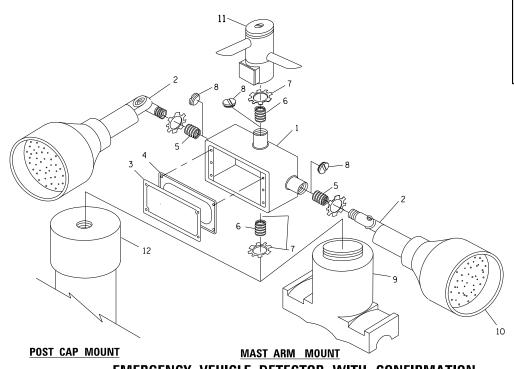
USER NAME = Nedal.Qarut	DESIGNED -	REVISED -		DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS				FAP 0303 22 RS3	McHENRY	40 35
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				TS-05		CONTRACT NO. 62T63
PLOT DATE = 12/15/2023	DATE -	REVISED -		SCALE: NONE	SHEET 5 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	



NOTES:

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 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



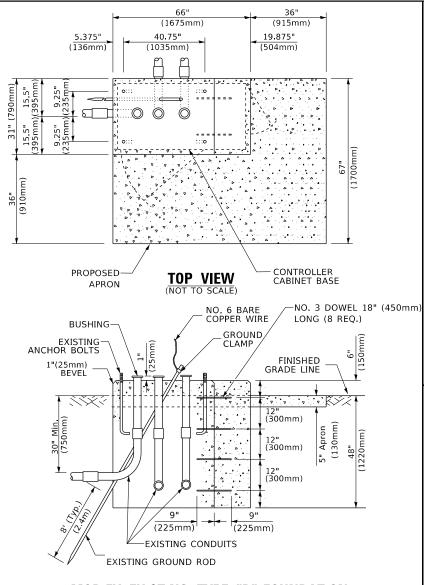
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL

 USER NAME
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 PLOT SCALE
 = 100,0000 ' / in.
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 PLOT DATE
 = 12/15/2023
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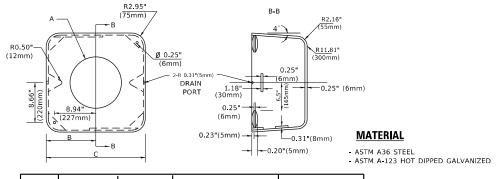


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE) ITEM NO. 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 %"(19 mm) CLOSE NIPPLE 7 %"(19 mm) LOCKNUT 8 %"(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.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 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.

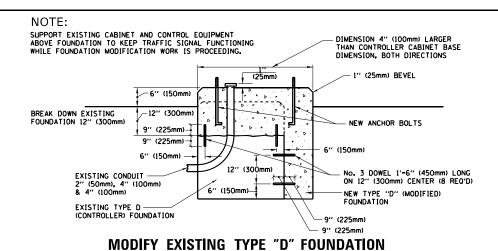


А	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 l bs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 bs (57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

SHROUD

NOTES:

- 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.



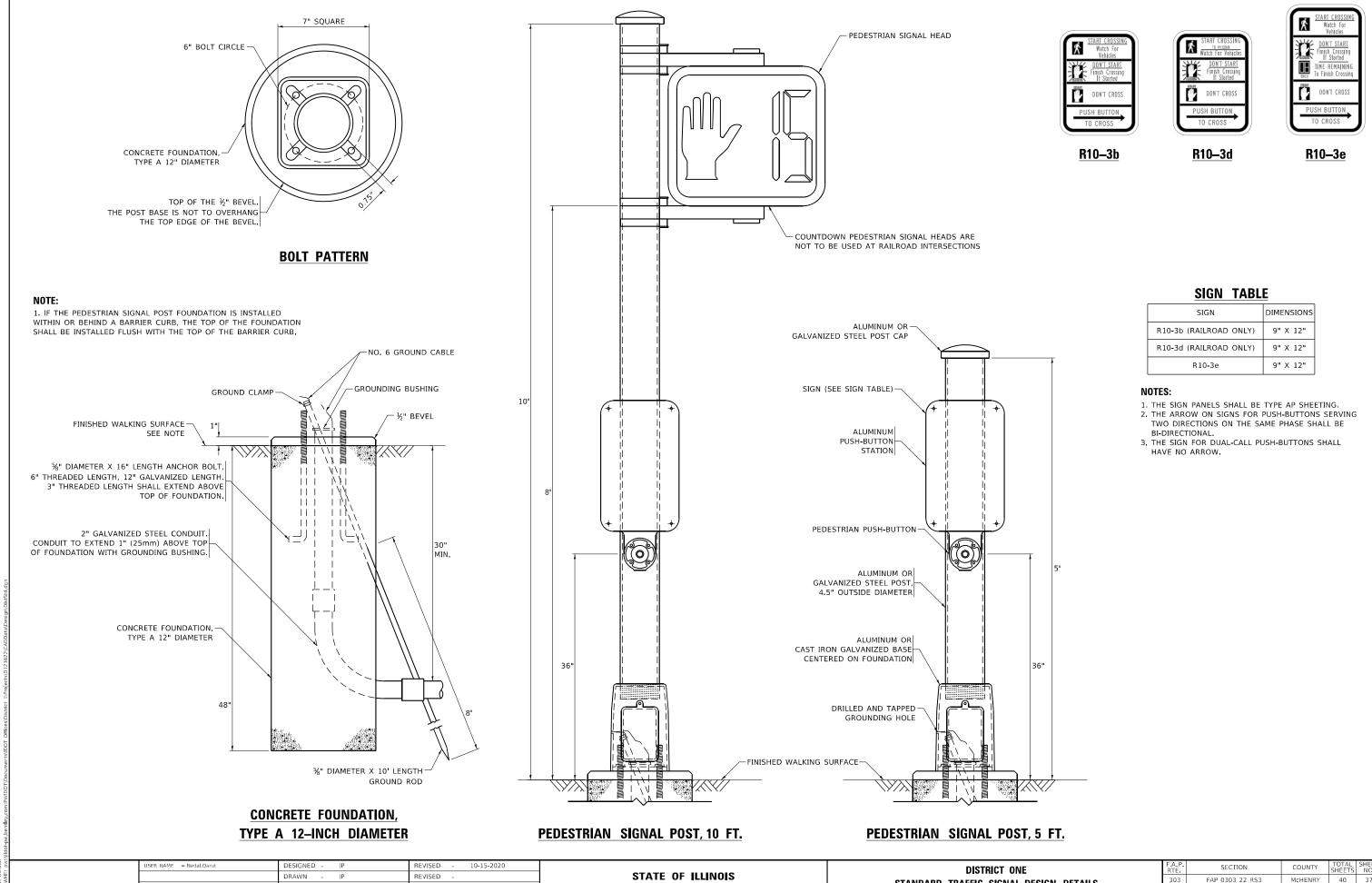
CALVANIZED STEEL HOOKS 21 1/2" MIN. (3-45mm) CONDUIT TO BE REMOVED EXISTING CONDUIT TO REMAIN ELEVATION

NOTES:

- 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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DEPARTMENT OF TRANSPORTATION

FAP 0303 22 RS3

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 7 OF 7 SHEETS STA.

MCHENRY

CONTRACT NO. 62T63

40 37

DRAWN

PLOT DATE = 12/15/2023

REVISED

REVISED

LOOPS NEXT TO SHOULDERS

* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS

SER NAME = Nedal,Qaru

PLOT DATE = 12/15/2023

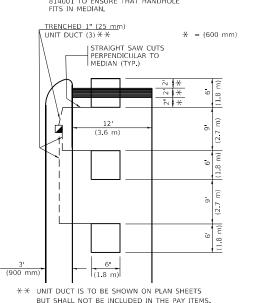
* = (600 mm)

LEFT TURN LANES WITH MEDIANS

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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



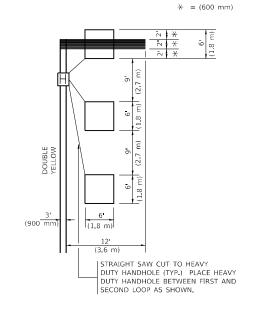
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS

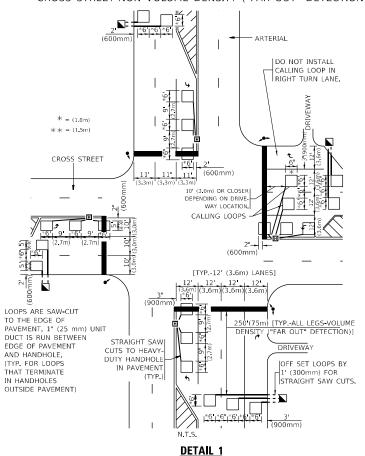
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



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

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



N.T.S.

DESIGNED

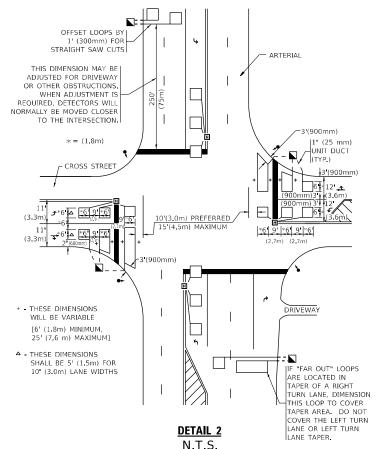
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ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



NOTES

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF \underline{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:

DIS

SCALE: NONE

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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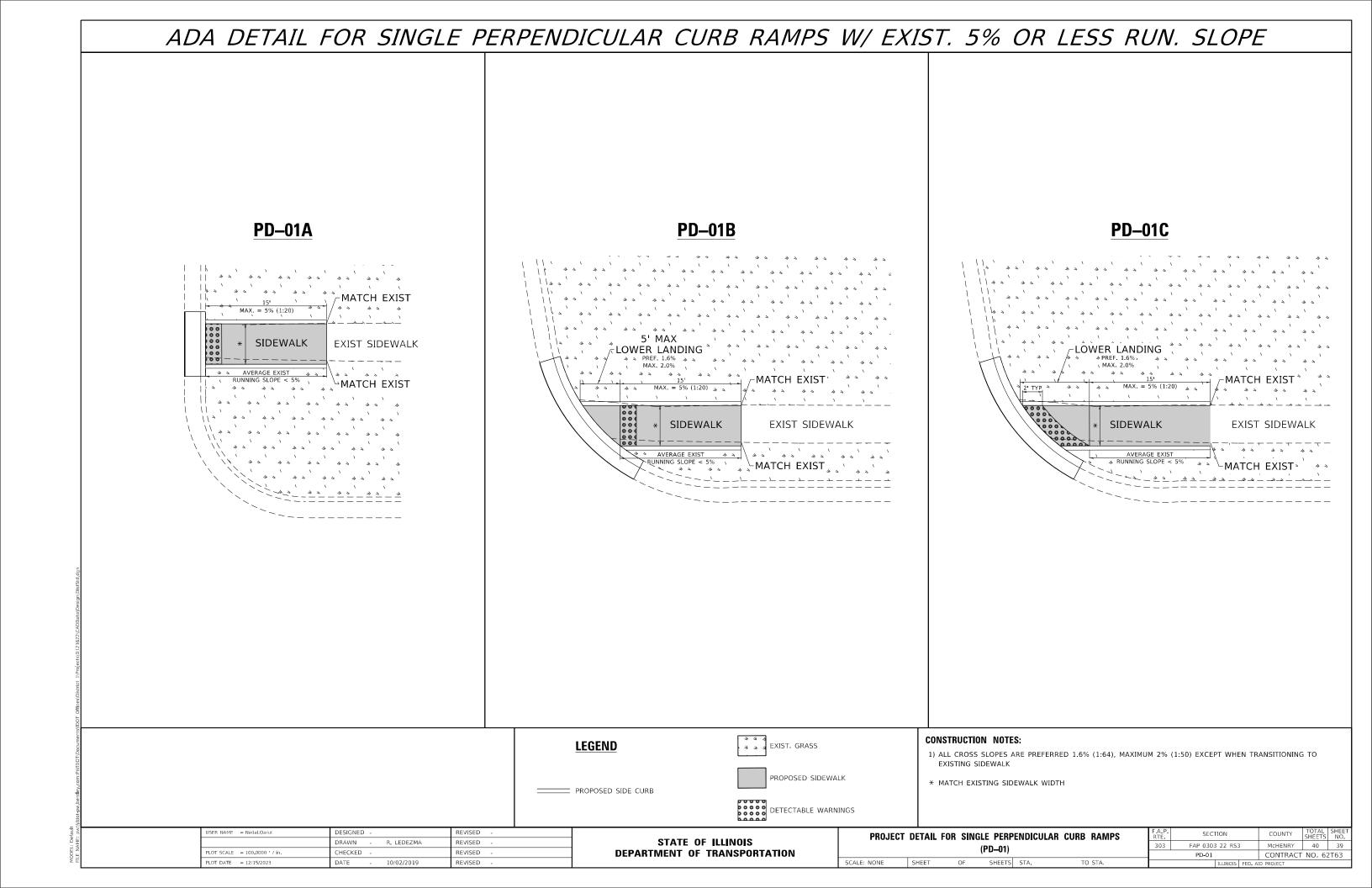
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING		F.A.P. SECTION		TION	COUNTY	TOTAL SHEETS	SHEET NO.	
		303 FAP 0303 22 RS3		3 22 RS3	McHENRY	40	38	
		TS-07			CONTRACT NO. 62T63			
SHEET 1 OF 1 SH	IEETS STA	TO STA	THINDIC FED AID PROJECT					



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- ackslash MATCH EXIST ⊱MATCH EXIST SIDEWALK SIDEWALK 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 DESIGNED REVISED SECTION PROJECT DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS STATE OF ILLINOIS DRAWN R. LEDEZMA REVISED 303 FAP 0303 22 RS3 McHENRY 40 40 HECKED REVISED **DEPARTMENT OF TRANSPORTATION** PD-03 CONTRACT NO. 62T63 SCALE: NONE LOT DATE = 12/15/2023 SHEETS STA. DATE