FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN VILLAGE OF NILES

TRAFFIC DATA (IL 21):

ADT 2021: 27,800 VPD SPEED LIMIT: 35 MPH

TRAFFIC DATA (US 14):

ADT 2021: 39,500 VPD

SPEED LIMIT: 35 MPH

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

D-91-272-22

FAP 0374 22 BJ

ILLINOIS CONTRACT NO. 62T24

LOCATION OF SECTION INDICATED THUS: -

Ardmore Roderick

062-059992 REGISTERED PROFESSIONAL ENGINEER

062-062156 REGISTERED PROFESSIONAL ENGINEER GARZA KARHOFF

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUBMITTED March 18 20 24

May 10, 2024

REV-SEP

May 10, 2024

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROPOSED HIGHWAY PLANS

FAP ROUTE 374 IL 21 (MILWAUKEE AVENUE)

SECTION: FAP 0374 22 BJ

PROJECT NO.: NHPP-WE2D(791)

BRIDGE JOINT REPLACE / REPAIR,

C-91-326-22

-US 14 (DEMPSTER ST)

3rd P.M.

DATE: 11/30/2024 SIGNATURE AND SEAL

APPLIES TO DRAWINGS:

32-46 (S-01 TO S-15)

AT US 14 (DEMPSTER STREET) BRIDGE DECK OVERLAY, **ADA IMPROVEMENTS COOK COUNTY**

PROJECT LOCATION BRIDGE

MILWAUKEE AVE OVER DEMPSTER ST STRUCTURE NO: 016-2572

IL 21 (MILWAUKEE AVE)

NILES TOWNSHIP **RANGE 12 EAST**

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 EXCAVATION 1-800-892-0123

CONTRACT NO. 62T24

PROJECT ENGINEER RODRIGO LEDEZMA, P.E. (847) 705-4580 PROJECT MANAGER J. ALAIN MIDY, P.E. (847) 221-3056

GROSS & NET LENGTH = 550 FT. = 0.10 MILE

ARDMORE RODERICK YUN S. KIM, P.E. # 062-059992 DATE: 11/30/2025 SIGNATURE AND SEAL APPLIES TO DRAWINGS: 1-22, 47-56 SINGH & ASSOCIATES, INC. GREGORY GEDEMER, P.E. # 062-062156 DATE: 11/30/202 SIGNATURE AND SEAL APPLIES TO DRAWINGS: 23-31, 57-63 GARZA KARHOFF ENGINEERING, LLC LUKE C. MARTIN, S.E. # 081-007429

> **LOCATION MAP** (NOT TO SCALE)

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INDEX OF SHEETS

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1	COVER SHEET
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11	PROPOSED ROADWAY PLAN
12-13	ADA RAMP DETAIL PLAN
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15-17	MAINTENANCE OF TRAFFIC PLANS
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23-31	TEMPORARY TRAFFIC CONTROL SIGNAL AND APS PLANS
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54	TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
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56	TC-22 ARTERIAL ROAD INFORMATIONAL SIGN
57-63	TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS LESS/EQUAL TO 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL CONTACT THE DISTRICT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGE OF NILES, AND COOK COUNTY.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL TAKE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS, BY THE CONTRACTOR, SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- THE COST OF SAW CUTTING SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS
- THE CONTRACTOR IS TO REFER TO THE SPECIAL PROVISION FOR SAW CUTTING CONTRACTION JOINTS IN P.C.C. SIDEWALKS, NO TOOLED JOINTS WILL BE ALLOWED.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 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 40 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
- 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 AS DIRECTED BY THE ENGINEER.
- 12. THE RESIDENT ENGINEER SHALL CONTACT FADI SULTAN, AREA TRAFFIC FIELD ENGINEER, AT FADI.SULTAN@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS
- 13. ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 14. ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE "DISTRICT 1 TYPICAL PAVEMENT MARKING" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 15. THE RESIDENT ENGINEER AND CONTRACTOR SHALL VERIFY ALL EXISTING PAVEMENT MARKING PRIOR TO THE PROJECT STARTING. IF A DISCREPANCIES OCCURS BETWEEN EXISTING PAVEMENT MARKINGS AND THE PROPOSED PAVEMENT MARKINGS, THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF TRAFFIC OPERATIONS.
- 16. THE RESIDENT ENGINEER SHALL CONTACT THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR, MEADE ELECTRIC COMPANY, AT (773) 287-7672 PRIOR TO THE START OF CONSTRUCTION TO LOCATE ALL IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES.
- 17. IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR. THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
- 18. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

SCALE:

GENERAL NOTES CONTINUED

- 20. 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
- THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL STAGES OF CONSTRUCTION.
- POLLUTION CONTROL: THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THIS WORK IS NOT TO BE PAID SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONTRACT
- DURING CONSTRUCTION OPERATION, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED THE MATERIAL SHALL BE REMOVED A THE CLOSE OF EACH WORKDAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE OF DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT.
- THE CONTRACTOR SHALL REFER TO THE SPECIAL PROVISION FOR STRUCTURE ASSESSMENT REPORTS FOR CONTRACTOR'S MEANS AND METOHDS WHILE FORMULATING A WORK PLAN THAT INVOLVES LOADS ON THE DECK
- THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
- CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE LIPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING, AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.
- 27. 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION, AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN
- 29. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- ALL TEMPORARY TRAFFIC SIGNALS WILL BE INSTALLED PRIOR TO REGINNING WORK IN THE MAINTENANCE OF TRAFFIC PRE-STAGE. TEMPORARY TRAFFIC SIGNALS SHALL NOT BE REMOVED UNTIL THE COMPLETION OF STAGE 2, ENSURING THAT THE EXISTING TRAFFIC SIGNAL SYSTEM IS FULLY OPERATIONAL.

Ardmore Poderick

USER NAME = rileywhite	DESIGNED RW	REVISED
	DRAWN - RW	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - YK	REVISED -
PLOT DATE = 4/22/2024	DATE - 03/25/2024	REVISED

IL 21 (MILWAUKEE	AVE) OVER US	14 (DEMPSTER	ST)
INDEX OF SH	EETS, STAND	ARDS, COMMITI	MENTS, & GENE	RAL NOTES
CALE	CUEET NO. 1.0	1 CUEETC	CTA TO CT	

				80% FED 20% STATE	80% FED 20% STATE
	v	1		BRIDGE	BRIDGE
CODE			TOTAL	0021	0059
1	1.754		TOTAL		
NO.	ITEM	UNIT	QUANTITY	S.N. 16-2572	S.N. 16-2572
28000500	INLET AND PIPE PROTECTION	EACH	4		4
				,	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	448		448
-					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	996	,	996
				,	
	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5,	1			
40604172	MIX "E", N70	TON	98		98
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	171		171
42400800	DETECTABLE WARNINGS	SQ FT	84	,	84
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	43		43
44000600	SIDEWALK REMOVAL	SQ FT	171	1	171
		34	1/1	7	
ř					
50102400	CONCRETE REMOVAL	CU YD	58.5		58.5
50157300	PROTECTIVE SHIELD	SQ YD	762		762
		1			
E0200255	CONCRETE SUPERSTRUCTURE	CU YD	62.4		62.4
30300233	CONCRETE SUPERSTRUCTURE	CO 1D	02.4	-	62.4
50300300	PROTECTIVE COAT	SQ YD	816		816
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,590		7,590
50800515	BAR SPLICERS	EACH	5 2		5 2
			•		

SPECIALTY ITEM

Δ NON-PARTICIPATING, 100% STATE FUNDED



USER NAME = rileywhite	DESIGNED RW	REVISED (**)
	DRAWN - RW	REVISED
PLOT SCALE = 2.0000 ' / in.	CHECKED - YK	REVISED
PLOT DATE = 3/26/2024	DATE - 03/25/2024	REVISED ==

SCALE:

				000/ EED 200/ CTATE	80% FED 20% STATE
	<u> </u>	I	T	BRIDGE	BRIDGE
CODE			TOTAL		
CODE			TOTAL	0021	0059
NO .	ITEM	UNIT	QUANTITY	S.N. 16-2572	S.N. 16-2572
52000110	PREFORMED JOINT STRIP SEAL	FOOT	350		350
32000110	FREI ORMIED JOHN STRIF SEAL	1001	330		330
58700300	CONCRETE SEALER	SQ FT	1,224		1,224
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	5		5
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	43		43
	COMBINATION CONCRETE COND AND COTTEN, THE D 0.24	1001			43
67100100	MOBILIZATION	L SUM	1		1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	776		776
70300100	SHORT TERM PAVEMENT MARKING	FOOT	10,277		10,277
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	7,942		7,942
70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	250		250
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	7,403		7,403
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	408		408
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	120		120
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300		300
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	250		250
	<u> </u>				

* SPECIALTY ITEM

Δ NON-PARTICIPATING, 100% STATE FUNDED



USER NAME = rileywhite	DESIGNED -	RW	REVISED -
	DRAWN -	RW	REVISED -
PLOT SCALE = 2.0000 / in	CHECKED -	YK	REVISED -
PLOT DATE = 3/26/2024	DATE -	03/25/2024	REVISED -

					0.00/ 555 0.00/ 57475	000/ 555 000/ 67475
				1	80% FED 20% STATE	
					BRIDGE	BRIDGE
	CODE			TOTAL	0021	0059
	NO .	ITEM	UNIT	QUANTITY	S.N. 16-2572	S.N. 16-2572
		IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE,				
	70600241	NARROW), TEST LEVEL 2	EACH	2		2
		IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,				
	70600341	NARROW), TEST LEVEL 2	EACH	2		2
*	72000100	SIGN PANEL - TYPE 1	SQ FT	9		9
*	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	9		9
				•		
*	72400735	REMOVE AND RELOCATE SIGN PANEL - TYPE 1	SQ FT	9		9
		,				
*	72400740	REMOVE AND RELOCATE SIGN PANEL - TYPE 2	SQ FT	13		13
	72100710	TENOVE AND REESONIE STON PANEL THE Z	34 11			
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	428		428
	78000100	THEMMOREASTIC FAVEMENT MARKING - ELITERS AND STMBOLS	30 11	420		420
¥	78000200	THERMORI ACTIC DAVEMENT MARKING LINE ALL	FOOT	F 265		5 265
	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5,365		5,365
	70000100		500T			
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,193		1,193
			eur 148 (Menus			~~ ^
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	681		681
		·				
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	801		801
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	194		194
		DDEFORMED BLACTIC DAVENERY MADVING TWO CONTROL				
*	78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	551		551
		erne ,				
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	150		150
						

* SPECIALTY ITEM

Δ NON-PARTICIPATING, 100% STATE FUNDED



USER NAME = rileywhite	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 2.0000 / in	CHECKED - YK	REVISED -
PLOT DATE = 3/26/2024	DATE - 03/25/2024	REVISED -

F.A.P. SECTION				COUNTY	TOTAL SHEETS	SHEE NO.
374	FAP 037	4 22 BJ		COOK	63	5
				CONTRAC	T NO. 6	2T24
FED. R	OAD DIST, NO. 1	ILLINOIS	FED. A	D PROJECT		

					·	i i
					0.00/ 555 3.00/ 57475	0.00/ FED 200/ CTATE
ì	-			1		80% FED 20% STATE
	6055			TOTAL	BRIDGE	BRIDGE
	CODE			TOTAL	0021	0059
	NO .	ITEM	UNIT	QUANTITY	S.N. 16-2572	S.N. 16-2572
	78009024	MODIFIED URETHANE PAVEMENT MARKING LINE 24"	FOOT	24		24
	78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	551		551
4	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5		5
3						
	78100300	REPLACEMENT REFLECTOR	EACH	93		93
	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	2 4		24
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	5		5
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4,841		4,841
<	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	160	160	
:	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	80	80	
3	81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIAL, PVC COATED GALVANIZED STEEL	FOOT	85	85	
	81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA _± , PVC COATED GALVANIZED STEEL	FOOT	70	70	
:	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	6	6	
	81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4	4	
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
s k	07201215	ELECTRIC CARLE IN CONDUIT SIGNAL NO. 14 20	F007	2.020	2.020	
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,820	3,820	

SPECIALTY ITEM

Δ NON-PARTICIPATING, 100% STATE FUNDED



	USER NAME = rileywhite	DESIGNED - RW	REVISED 🐷
		DRAWN - RW	REVISED -
1	PLOT SCALE = 2.0000 ' / in.	CHECKED - YK	REVISED -
	PLOT DATE = 3/26/2024	DATE - 03/25/2024	REVISED

				_	80% FED 20% STATE	80% FED 20% STATE
					BR I DGE	BR I DGE
	CODE			TOTAL	0021	0059
	NO.	ITEM	UNIT	QUANTITY	S.N. 16-2572	S.N. 16-2572
<	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,290	1,290	
<	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	191	191	
4)	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	233	233	
,	07201205	ELECTRIC CARLE IN CONDUIT LEAD IN NO. 14 A DAIR	5007	0.40	0.10	
	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	940	940	
<	87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1	1	
		, *		,		
	87900200	DRILL EXISTING HANDHOLE	EACH	13		13
<	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	4	
<	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
<	89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	4	4	
<	89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3	3	
		· · · · · · · · · · · · · · · · · · ·				
¢	89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1	1	
¢	89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1	1	
<	89502200	MODIFY EXISTING CONTROLLER	EACH	1	1	
<	89502300	REMOVE ELECTRIC CABLE FROM CCNDUIT	FOOT	1,998	1,998	
			. 5.9	- , , , , ,	_,,333	

* SPECIALTY ITEM

Δ NON-PARTICIPATING, 100% STATE FUNDED



USER NAME = rileywhite	DESIGNED	-	RW	REVISED	-
	DRAWN	-	RW	REVISED	-
PLOT SCALE = 2.0000 / in	CHECKED	-	YK	REVISED	-
PLOT DATE = 3/26/2024	DATE	-	03/25/2024	REVISED	-

-					80% FED 20% STATE	80% FED 20% STATE
	500 MW0-10 No.				BR I DGE	BR I DGE
	CODE	,,,,,,		TOTAL	0021	0059
	NO.	ITEM	UNIT	QUANTITY	S.N. 16-2572	S.N. 16-2572
	Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	688		688
	70012120	BRIDGE DECK SCARIFICATION 3/4"	CO VD	600		600
	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	688		688
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	225		225
		THAN 3 TRUTES!				
		STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5				
	Z0012755	INCHES)	SQ FT	24		24
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
				,		
	Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2		2
	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	9		9
_						
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	172		172
3	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1	
					-	
		ENERGENCY VEHICLE DRIVEN TO COLUMN THE CENTRE COLUMN TO COLUMN THE				
8	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	118	118	
	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	365	365	
		SEEM EXISTING CONDOLL	, 501		303	
:	X1400023	CONDUIT, FLEXIBLE, LIQUID TIGHT, METALLIC, 2" DIAMETER	FOOT	40	40	
i	X1400319	TRAFFIC SIGNAL POST, 10 FOOT, (SPECIAL)	EACH	4	4	
	V1400313	THATTIC SIGNAL FOST, TO TOOT, (SPECIAL)	LACH	4	4	
	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	9	9	
		`				
ı					l	<u> </u>

* SPECIALTY ITEM

Δ NON-PARTICIPATING, 100% STATE FUNDED



USER NAME = rileywhite	DESIGNED - R	.VV	REVISED -
	DRAWN - R	W	REVISED -
PLOT SCALE = 2.0000 / in	CHECKED - Y	'K	REVISED -
PLOT DATE = 3/26/2024	DATE - 03	3/25/2024	REVISED -

				CONSTRUCTION CODE		
					80% FED 20% STATE	80% FED 20% STATE
					BRIDGE	BRIDGE
	CODE			TOTAL	0021	0059
	NO.	ITEM	UNIT	QUANTITY	S.N. 16-2572	S.N. 16-2572
*	X5051200	FURNISHING AND ERECTING STRUCTURAL STEEL (SPECIAL)	L SUM	1		1
	X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	1 2		12
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	93		93
					,	
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16	16	
*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	64	11	64
*	X8860105	DETECTOR LOOP REPLACEMENT	FOOT	405	405	
Ø	Z0076600	TRAINEES	HOURS	500	500	
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500	

Ø 0042

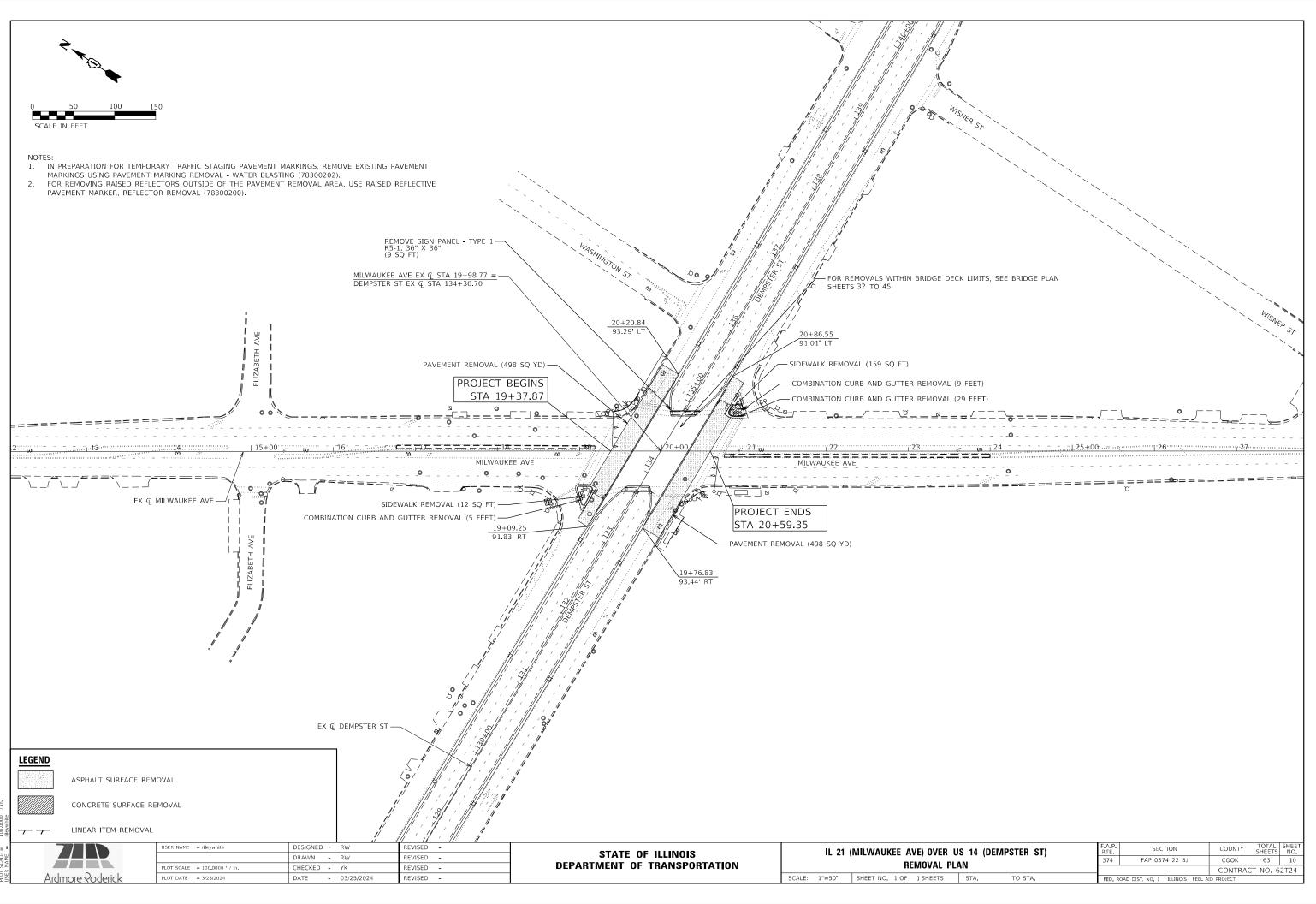
* SPECIALTY ITEM

Δ NON-PARTICIPATING, 100% STATE FUNDED

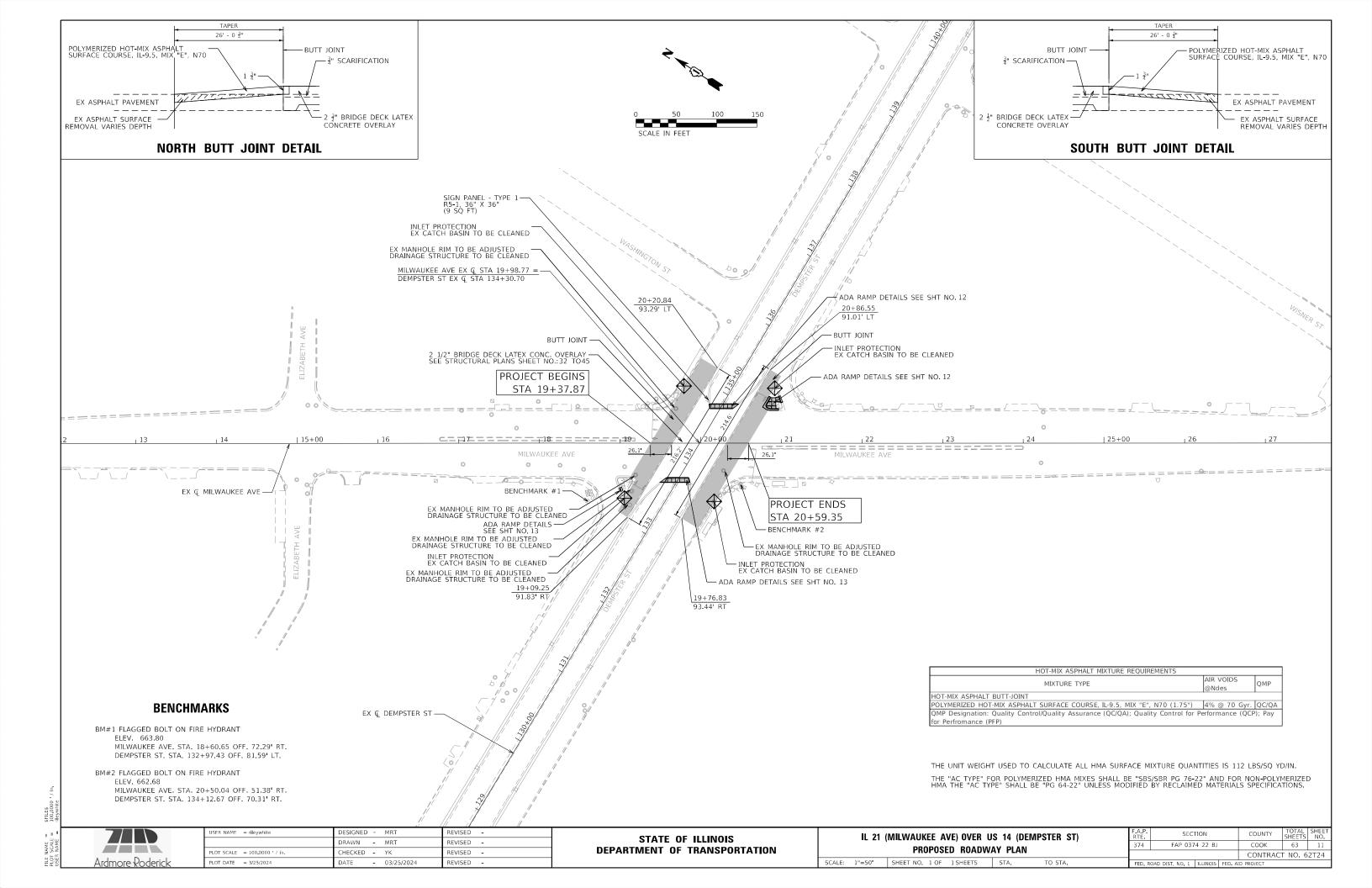


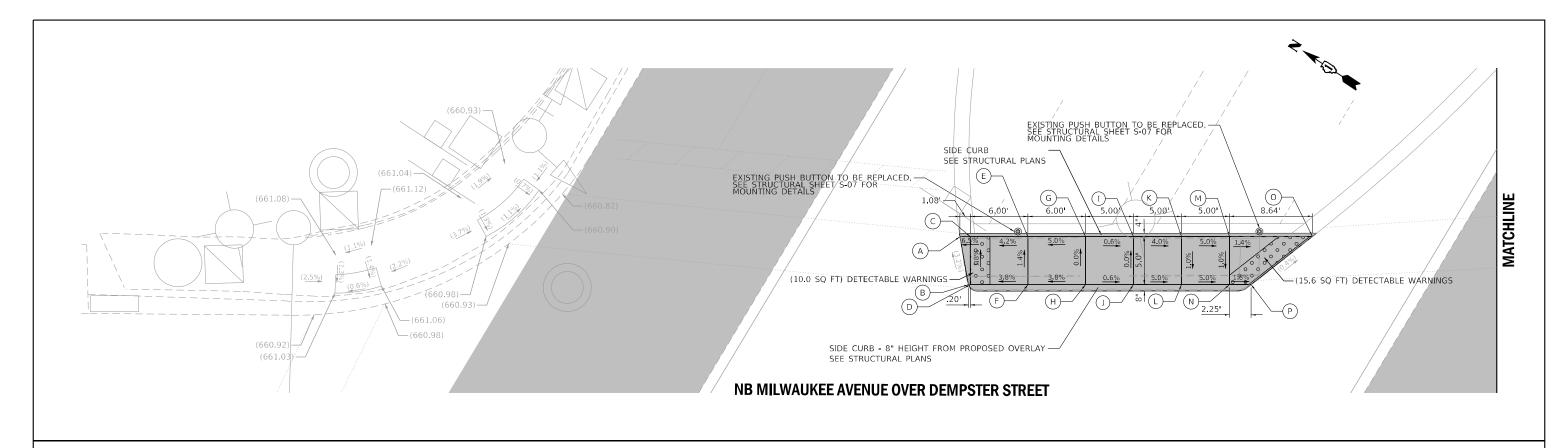
DRAWN - RW REVISED - PLOT SCALE = 2.0000 '/ in. CHECKED - YK REVISED -	USER NAME = rileywhite	DESIGNED RW	REVISED -
PLOT SCALE = 2.0000 ' / in. CHECKED - YK REVISED		DRAWN - RW	REVISED 4
	PLOT SCALE = 2.0000 ' / in.	CHECKED - YK	REVISED
PLOT DATE = 3/26/2024	PLOT DATE = 3/26/2024	DATE - 03/25/2024	REVISED =

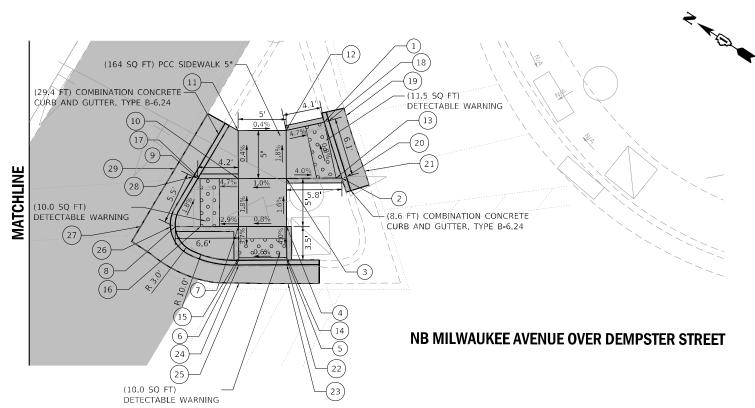
	RTE.	SEC ⁻	TION		COUNTY	SHEETS	NO.	
į	374	FAP 037	4 22 BJ		соок	63	9	
_	-				CONTRAC	T NO. 6	2T24	
1	FED. R	OAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT				



ILE NAME = \$FILE\$







SE Island						
Point	Station	Offset	Elevation			
1	20+96.99	57.28 LT	(660.77)			
2	20+98.83	51.45' LT	(660.82)			
3	20+93.04	51.43' LT	661.05			
4	20+93.06	46.43' LT	661.13			
5	20+93.08	42.93' LT	(660.99)			
6	20+88.08	42.90' LT	660.96			
7	20+88.06	46.40' LT	661.09			
8	20+81.47	46.38' LT	660.90			
9	20+83.81	51.39' LT	660.80			
10	20+88.04	51.40' LT	661.00			
11	20+88.02	56.40' LT	660.98			
12	20+93.02	56.43' LT	660.96			
13	20+98.24	51.45' LT	660.87			
14	20+93.08	43.18' LT	661.00			
15	20+88.08	43.15' LT	660.97			
16	20+84.08	46.39' LT	660.98			
17	20+84.06	51.39' LT	660.81			
18	20+97.48	57.40' LT	(660.74)			
19	20+99.32	57.80' LT	(660.75)			
20	20+99.32	51.56' LT	(660.77)			
21	21+01.16	52.31' LT	(660.82)			
22	20+93.08	42.43' LT	(660.96)			
23	20+93.18	40.47' LT	(660.94)			
24	20+88.19	42.40' LT	(660.92)			
25	20+88.11	40.51' LT	(660.92)			

SE Island								
Point	Station	Offset	Elevation					
26	26 20+80.96 46.3		660.88					
27	20+77.86	46.41' LT	660.92					
28	20+83.36	51.61' LT	660.81					
29	20+81.59	52.69' LT	660.83					

NB Median								
Point	Station Offset		Elevation					
Α	20+10.32	48.19' LT	661.22					
В	20+11.20	43.19' LT	661.38					
С	20+11.40	48.19' LT	661.29					
D	20 + 11.40	43.19' LT	661.38					
Е	20 + 17.40	48.19' LT	661.54					
F	20 + 17.40	43.19' LT	661.61					
G	20+23.40	48.20' LT	661.84					
Н	20+23.40	43.20' LT	661.84					
I	20+28.40	48.20' LT	661.81					
J	20+28.40	43.20' LT	661.81					
K	20+33.40	48.20' LT	661.61					
L	20+33.40	43.20' LT	661.56					
M	20+38.40	48.21' LT	661.36					
N	20+38.40	43.21' LT	661.31					
0	20+47.03	48.22' LT	661.24					
Р	20+40.65	43.21' LT	661.27					

REFERENCE BENCHMARK ELEV: 663.80

BENCHMARK: FLAGGED BOLT ON FIRE HYDRANT

LOCATION: NORTHWESTERLY CORNER OF MILWAUKEE AVE AND DEMPSTER ST

LEGEND

EXISTING LENGTH

PROPOSED SIDE CURB

EXISTING ELEVATION/SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

SCALE: 1

REFERENCE BENCHMARK ELEV: 662.68

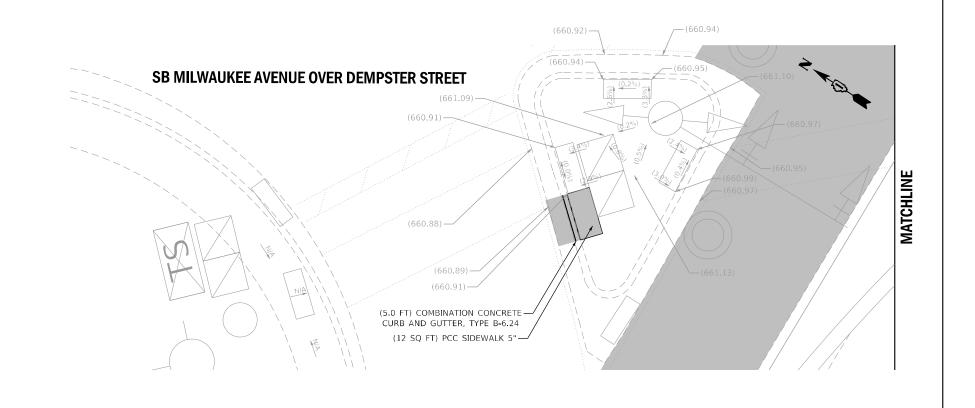
BENCHMARK: FLAGGED BOLT ON FIRE HYDRANT

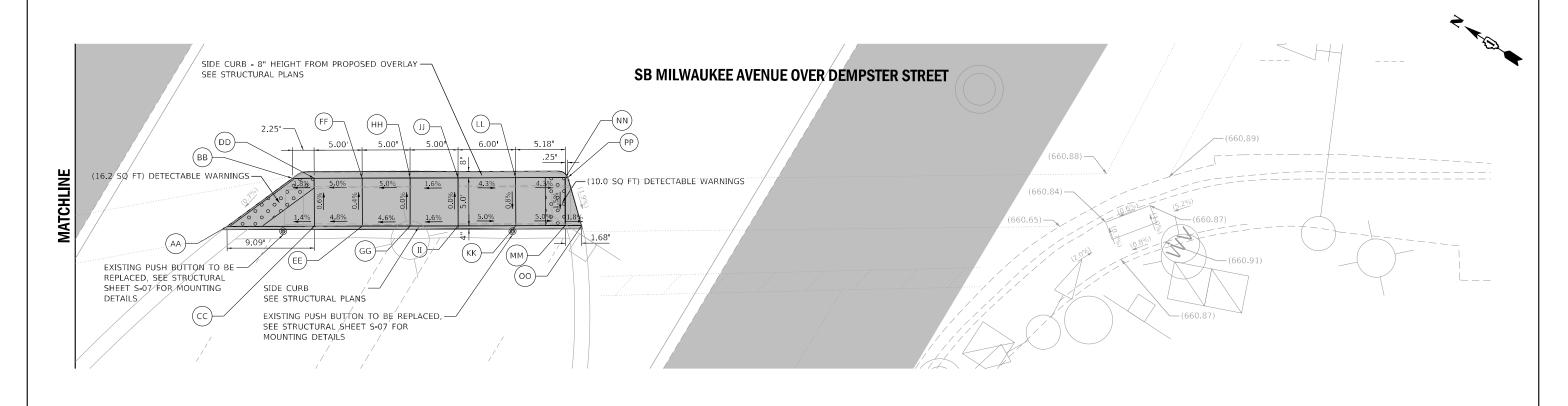
LOCATION: SOUTHWESTERLY CORNER OF MILWAUKEE AVE AND DEMPSTER ST

USER NAME = rileywhite	DESIGNED	-	MRT	REVISED	-
	DRAWN	-	MRT	REVISED	-
PLOT SCALE = 10.0000 / in.	CHECKED	-	YK	REVISED	-
PLOT DATE = 4/22/2024	DATE	-	03/25/2024	REVISED	-

IL 21 (MILWAUKEE AVE) OVER US 14 (DEMPSTER ST)					F.A.P. SECTION			COUNTY TO	
ADA SIDEWALK DETAIL PLAN				374	374 FAP 0374 22 BJ			COOK	6
								CONTRAC	TNO
1"=5"	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. F	ROAD DIST, NO. 1	ILLINOIS	FED. A	D PROJECT	

SB Median							
Point	Station	Offset	Elevation				
AA	19+50.00	48.27' RT	661.30				
BB	19+56.83	43.25' RT	661.36				
CC	19+59.10	48.24' RT	661.43				
DD	19+59.08	43.24' RT	661.40				
EE	19+64.10	48.23' RT	661.67				
FF	19+64.08	43.23' RT	661.65				
GG	19+69.10	48.21' RT	661.90				
HH	19+69.08	43.21' RT	661.90				
II	19+74.10	48.20' RT	661.98				
JJ	19+74.08	43.20' RT	661.98				
KK	19+80.10	48.18' RT	661.68				
LL	19+80.08	43.18' RT	661.72				
MM	19+85.27	48.17' RT	661.42				
NN	19+85.26	43.17' RT	661.50				
00	19+86.95	48.17' RT	661.39				
PP	19+85.51	43.17' RT	661.49				





REFERENCE BENCHMARK ELEV: 663.80

BENCHMARK: FLAGGED BOLT ON FIRE HYDRANT

LOCATION: NORTHWESTERLY CORNER OF MILWAUKEE AVE AND DEMPSTER ST

LEGEND

PROPOSED SIDE CURB

EXISTING ELEVATION/SLOPE

EXISTING LENGTH

PROPOSED SIDEWALK

DETECTABLE WARNINGS

REFERENCE BENCHMARK ELEV: 662.68

BENCHMARK: FLAGGED BOLT ON FIRE HYDRANT

LOCATION: SOUTHWESTERLY CORNER OF MILWAUKEE AVE AND DEMPSTER ST

USER NAME = rileywhite	DESIGNED -	MRT	REVISED -
	DRAWN -	MRT	REVISED -
PLOT SCALE = 10.0000 / in.	CHECKED -	YK	REVISED -
PLOT DATE = 4/22/2024	DATE -	03/25/2024	REVISED -

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I	IL 21 (MILWAUKEE AVE) OVER US 14 (DEMPSTER ST) ADA SIDEWALK DETAIL PLAN			F.A.P. RTE	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEE NO.	
ı				374	374 FAP 0374 22 BJ			COOK	63	13	
ı	ADA SIDEWALK DETAIL FLAIN								CONTRAC	T NO. 6	52T24
ı	SCALE: 1"=5'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. R	OAD DIST, NO. 1	ILLINOIS	FED. AII	D PROJECT		

MAINTENANCE OF TRAFFIC GENERAL NOTES

- 1. THE TRAFFIC CONTROL MEASURES DEPICTED IN THE PLANS ARE THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES, AS SPECIFIED IN THE HIGHWAY AND DISTRICT STANDARDS, AS SHOWN IN THE INDEX OF SHEETS, AND SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS, OR SPECIAL PROVISIONS.
- 2. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER.
- 3. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
- 5. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL GENERAL NOTES, PLANS, SPECIAL PROVISIONS, APPLICABLE HIGHWAY & DISTRICT STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER 72 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
- 6. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, LANDSCAPING, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED. IF THEY WERE REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION ACTIVITIES, THE COST TO REPAIR ANY DAMAGES WILL BE BORNE BY THE CONTRACTOR AND NOT THE RESPONSIBILITY OF THE DEPARTMENT.
- 7. NO WORK SHALL COMMENCE UNTILL TRAFFIC CONTROL REQUIREMENTS ARE MET.
- 8. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PAVEMENT MARKING TAPE, TYPE IV (AND/OR MODIFIED URETHANE)
 USED FOR STAGING SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL-WATER BLASTING.
- 10. ALL EXISTING RAISED REFLECTIVE PAVEMENT MARKERS LOCATED WITHIN TEMPORARY LANE CLOSURE TAPERS, LANE SHIFT TAPERS, OR IN LOCATIONS THAT CONFLICT WITH THE TEMPORARY PAVEMENT MARKING TAPE USED FOR STAGING SHALL BE REMOVED IF THE STAGING WILL REMAIN IN PLACE FOR MORE THAN 14 DAYS.
- 11. PAVEMENT MARKING TAPE, TYPE IV (AND/OR TYPE III) SHOWN ON THE PLANS FOR ANY CONSTRUCTION STAGE THAT THE CONTRACTOR PROPOSES TO EXTEND OVER THE WINTER PERIOD SHALL MEAN MODIFIED URETHANE PAVEMENT MARKING AND WILL BE PAID FOR THEIR RESPECTIVE CONTRACT UNIT PRICE.
- 12. TEMPORARY INFORMATION SIGNS ON TEMPORARY SUPPORTS SHALL BE PROVIDED FOR ALL COMMERCIAL DRIVEWAYS THAT ARE LOCATED WITHIN THE WORK AREA. THIS WORK SHALL BE PAID FOR PER DISTRICT 1 DETAIL TC-26. THESE SIGNS SHALL BE RELOCATED AS REQUIRED FOR EACH CONSTRUCTION STAGE AND SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THIS SIGN RELOCATION WORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR TEMPORARY INFORMATION SIGNING.
- 13. THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
- 14. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING MOTORISTS OF POTENTIAL TRAFFIC DELAYS, QUEUING, AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER. THE CHANGEBALE MESSAGE SIGNS ARE TO REMAIN IN PLACE FOR THE DURATION OF STAGES 1 & 2. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY "CHANGEABLE MESSAGE SIGN".
- 15. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ACTIVITIES THAT POTENTIALLY AFFECT EXISTING PACE BUS STOPS AND/OR ROUTES DIRECTLY WITH PACE AND MUST BE IN CONTACT WITH PACE A MINIMUM OF 14 CALENDER DAYS PRIOR TO BEGINNING CONSTRUCTION.
- 7. ALL TEMPORARY IMPACT ATTENUATORS MUST BE LOCATED, INSTALLED, AND SIZED IN ACCORDANCE WITH NCHRP REPORT 350.

MAINTENANCE OF TRAFFIC PEDESTRIAN NOTES

- THE CONTRACTOR MUST MAINTAIN A CONTINUOUS MINIMUM 5-FOOT ADA COMPLIANT PEDESTRIAN ZONE ALONG IL 21 (MILWAUKEE AVENUE). THE SIDEWALK DETOUR MUST BE CLEARLY MARKED USING SIGNS AND BARRICADES NOTIFYING PEDESTRIANS OF THE CLOSURE.
- 2. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS (MIN 5') TO ADJACENT PROPERTIES (WHERE APPLICABLE) BY INSTALLING ADA COMPLIANT PLYWOOD WALKWAYS. PEDESTRIAN ACCESS TO ADJACENT PROPERTIES SHALL BE UNINTERRUPTED UNTIL THE WALKWAY IS FULLY RESTORED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SIGNAGE AND OTHER ITEMS TO ENSURE SAFE PEDESTRIAN ACCESS.
- . USE ONE "PEDESTRIAN WALKWAY (ARROW)" (BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND) SIGN AT EACH END OF EACH SIDEWALK SECTION BEING RECONSTRUCTED.
- 4. AT EACH POINT OF CLOSURE, SUFFICIENT NUMBERS OF BARRICADES MUST BE USED TO COMPLETELY CLOSE THE PATHWAY.
- 5. PEDESTRIAN WALKWAYS MUST BE MAINTAINED FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC. AND MUST BE BROOM SWEPT DAILY OR AS DIRECTED BY THE ENGINEER.
- 6. ALL HAZARDS NEAR OR ADJACENT TO WALKWAYS MUST BE CLEARLY DELINEATED.
- 1. THE CONTRACTOR MUST MAINTAIN DISABLED PERSON PEDESTRIAN ACCESS TO CROSSWALKS ACROSS US 14 (DEMPSTER STREET) AND SIDE STREETS AT ALL TIMES VIA ADA COMPLIANT WOOD FRAME CONSTRUCTED WALKWAYS AND RAMPS THROUGH THE WORK ZONES. THESE ACCESS POINTS MUST BE OBSERVED AND PROTECTED BY THE CONTRACTOR AT ALL TIMES.
- 8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND FROM ALL ACTIVE PACE BUS STOPS AT ALL TIMES DURING CONSTRUCTION.

PROPOSED MAINTENANCE OF TRAFFIC MILWAUKEE AVENUE

PRE-STAGE MILWAUKEE AVENUE WORK

CONSTRUCTION:

INSTALL TEMPORARY TRAFFIC SIGNALS AS SHOWN IN THE PLANS.

STAGE 1 MILWAUKEE AVENUE WORK

ONSTRUCTION

BRIDGE DECK OVERLAY, PARTIAL FULL-DEPTH DECK SLAB REPAIR, CONCRETE REPAIRS TO THE ABUTMENTS AND PARAPETS FOR THE CENTRAL PORTION OF THE MILWAUKEE AVENUE BRIDGE.

TRAFFIC:

BOTH NORTHBOUND AND SOUTHBOUND LANES WILL MERGE FROM 2 LANES TO 1 BEFORE ENTERING THE WORKZONE AREA, NORTHBOUND TRAFFIC WILL BE SHIFTED TO THE EAST AND SOUTHBOUND TRAFFIC TO THE WEST.

ALL LEFT-TURN AND THROUGH MOVEMENTS FROM THE DEMPSTER STREET OFF RAMPS WILL BE DETOURED DURING THIS STAGE. SEE SHEETS 16-19 FOR DETOUR ROUTE DETAILS.

STAGE 2A MILWAUKEE AVENUE WORK

CONSTRUCTION:

BRIDGE DECK OVERLAY, PARTIAL FULL-DEPTH DECK SLAB REPAIR, CONCRETE REPAIRS TO THE ABUTMENTS AND PARAPETS FOR THE OUTSIDE PORTION OF THE MILWAUKEE AVENUE BRIDGE. PERMANENT BUTT JOINT INSTALLATION ON ALL FOUR CORNERS IMMEDIATELY ADJACENT TO THE BRIDGE DECK. ADA RAMP REPLACEMENTS WILL ALSO BE CONSTRUCTED IN THIS STAGE.

RAFFIC:

NORTHBOUND AND SOUTHBOUND LANES WILL FOLLOW A WORK ZONE SPEED LIMIT OF 30 MPH. NORTHBOUND TRAFFIC WILL SHIFT TO THE WEST AND SOUTHBOUND TRAFFIC WILL SHIFT TO THE EAST.

ALL LEFT-TURN AND THROUGH MOVEMENTS FROM THE DEMPSTER STREET OFF RAMPS WILL BE DETOURED DURING THIS STAGE. SEE SHEETS 16-19 FOR DETOUR ROUTE DETAILS.

STAGE 2B MILWAUKEE AVENUE WORK

CONSTRUCTION:

PERMANENT BUTT JOINT INSTALLATION ON THE NORTHEAST AND SOUTHWEST CORNERS OF THE MILWAUKEE AVENUE BRIDGE.

RAFFIC:

BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC WILL REMAIN THE SAME FROM STAGE 2A, ALL LEFT-TURN AND THROUGH MOVEMENTS FROM THE DEMPSTER STREET OFF RAMPS WILL BE DETOURED DURING THIS STAGE. SEE SHEETS 16-19 FOR DETOUR ROUTE DETAILS.

PROPOSED MAINTENANCE OF TRAFFIC DEMPSTER STREET

EASTBOUND DEMPSTER STREET WORK

CONSTRUCTION:

SOUTH ABUTMENT REPAIRS ALONG DEMPSTER STREET.

RAFFIC:

WORK ZONE SPEED LIMIT IS 35 MPH ON DEMPSTER STREET. UTILIZE IDOT STANDARD 701427-05 FOR STRUCTURAL WORK.

WESTBOUND DEMPSTER STREET WORK

SCALE:

CONSTRUCTION

NORTH ABUTMENT REPAIRS ALONG DEMPSTER STREET.

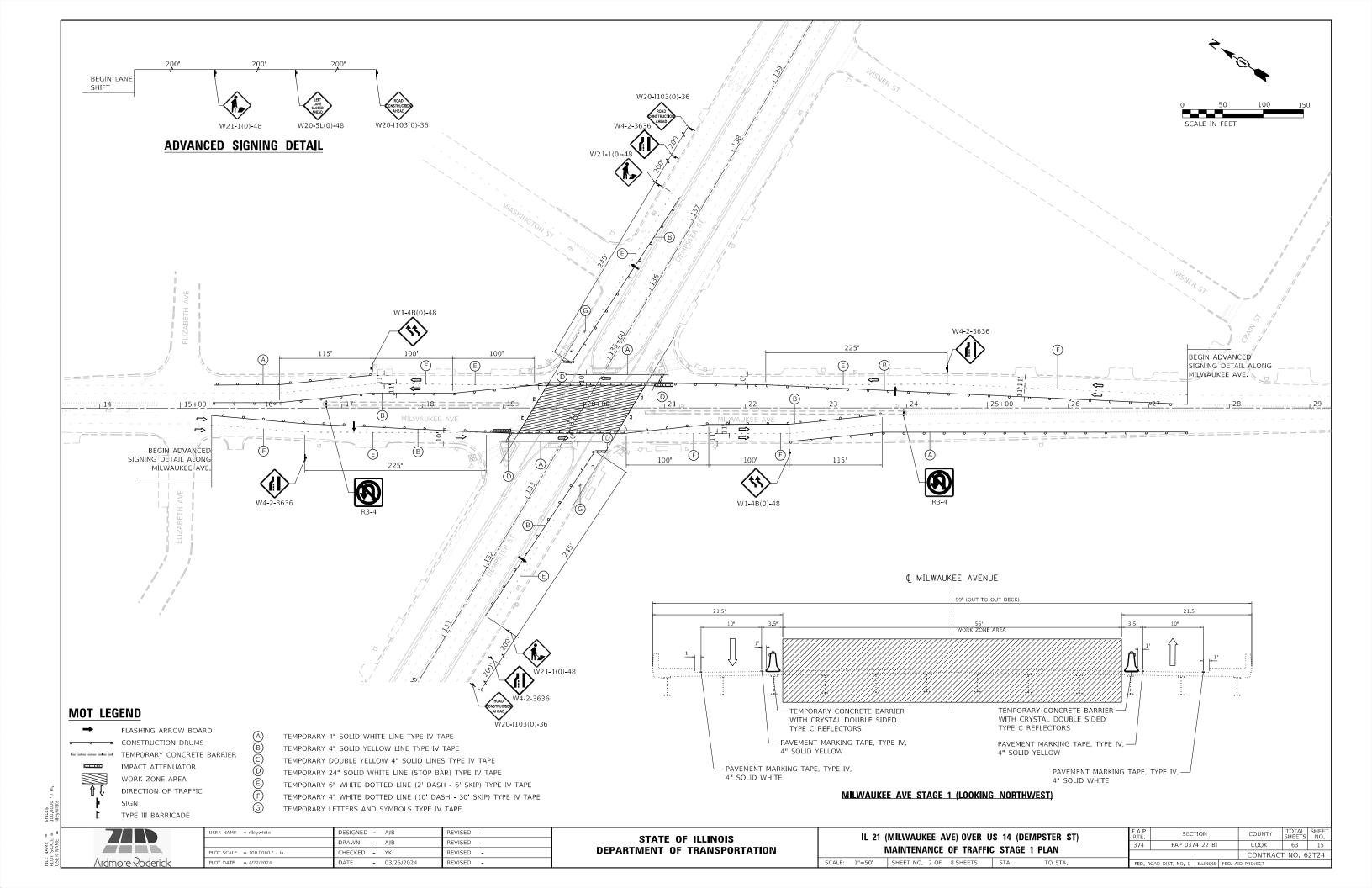
RAFFIC:

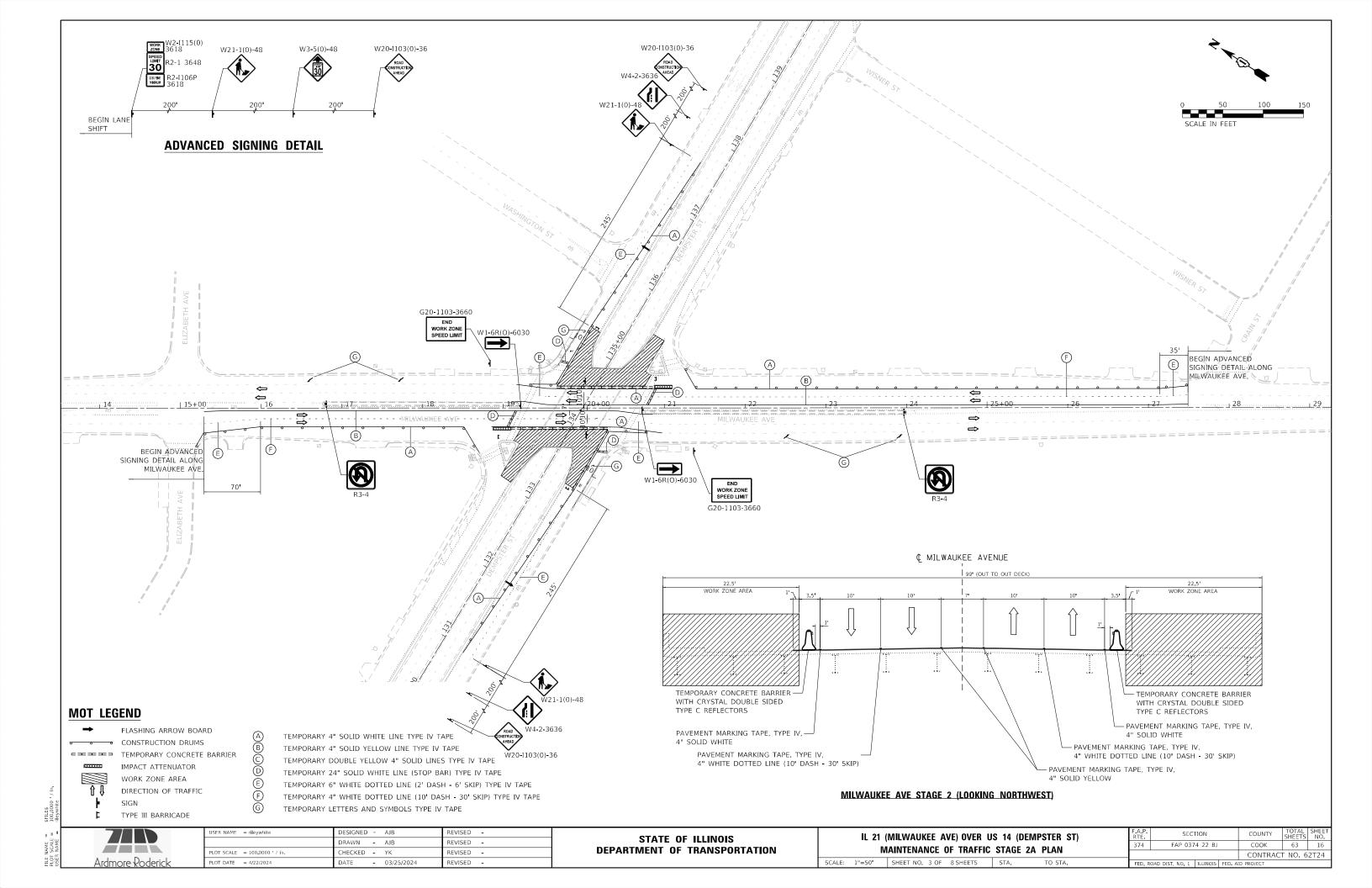
WORK ZONE SPEED LIMIT IS 35 MPH ON DEMPSTER STREET. UTILIZE IDOT STANDARD 701427-05 FOR STRUCTURAL WORK.

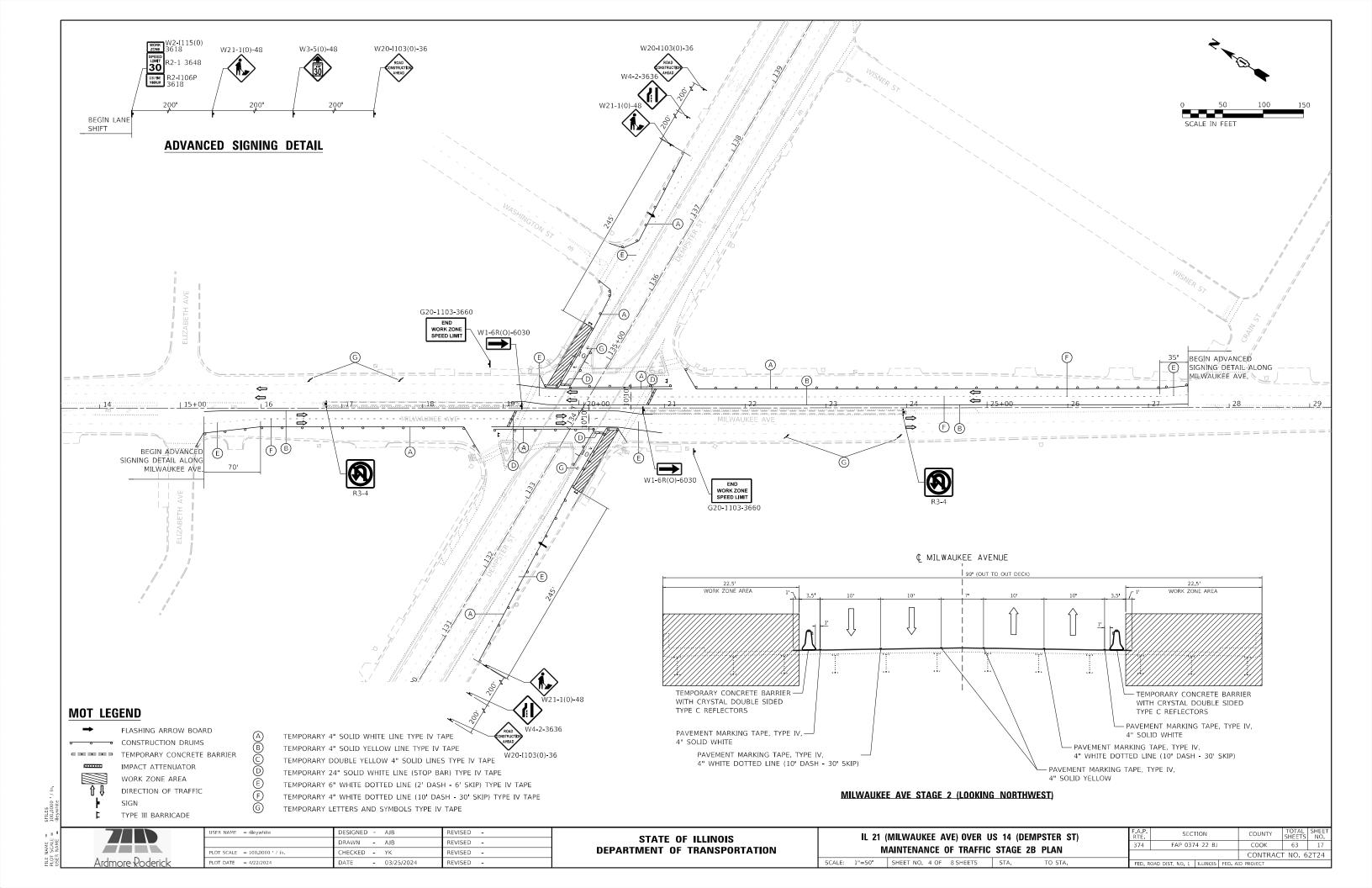


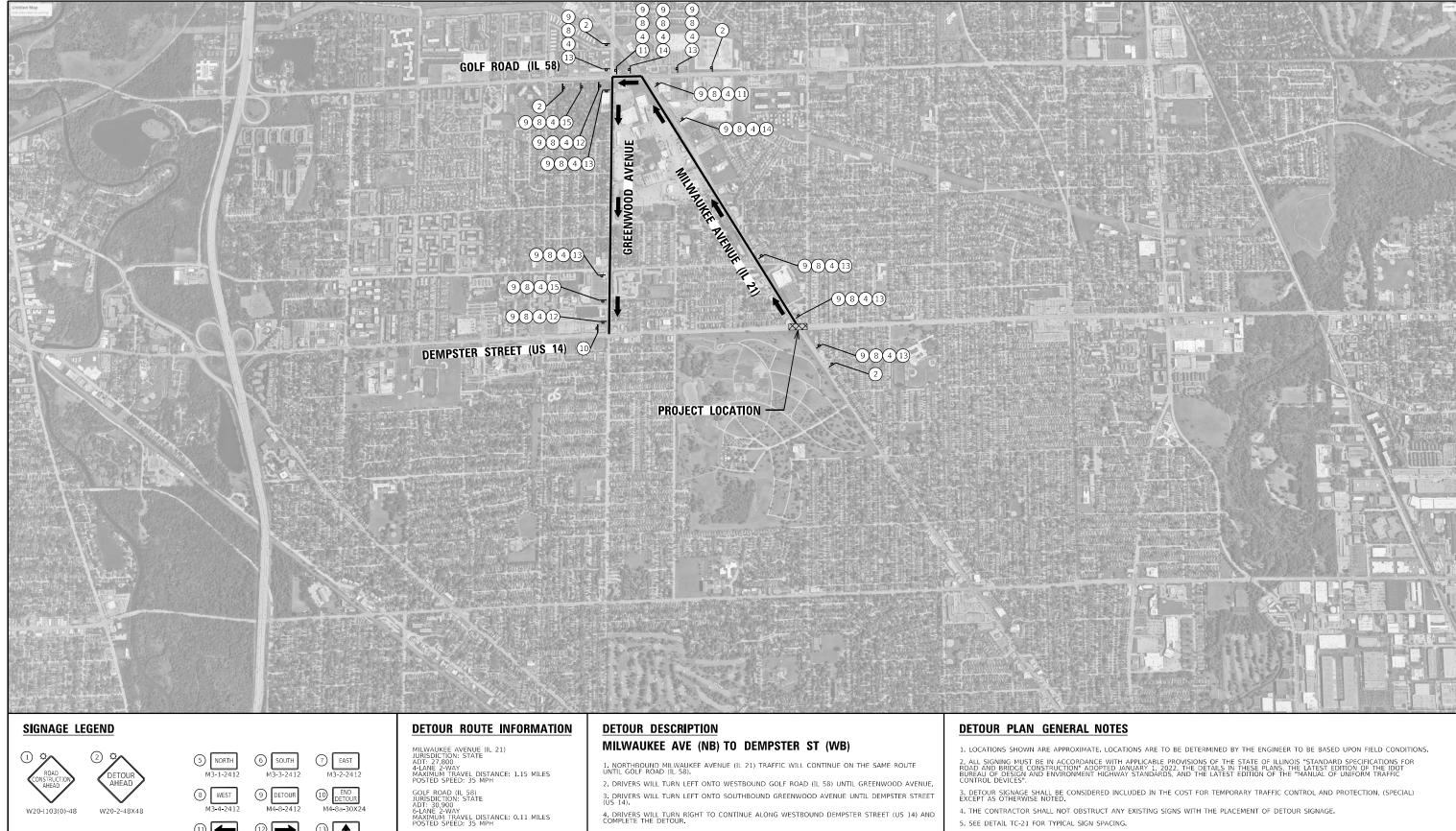
USER NAME = rileywhite	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 2.0000 / in.	CHECKED - YK	REVISED -
PLOT DATE = 4/22/2024	DATE - 03/25/2024	REVISED -

		F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEE NO.	
MAINTENANCE OF TRAFFIC GENERAL NOTES	374	FAP 0374 22 BJ			COOK	63	14
WAINTENANCE OF TRAFFIC GENERAL NOTES					CONTRAC	T NO. 6	2T24
SHEET NO 1 OF 8 SHEETS STA TO STA	EED D	OAD DIST NO. 1	II I IMOTE	EED A	D DROJECT		











21

M1-50-2424

[14]

M1-40-2424

	USER NAME = rileywhite	DESIGNED - RW	REVISED -
		DRAWN - RW	REVISED -
	PLOT SCALE = 2.0000 / in	CHECKED - YK	REVISED -
Ardmore Roderick	PLOT DATE = 3/25/2024	DATE - 03/25/2024	REVISED -

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11 🗲

14

GREENWOOD AVENUE JURISDICTION: NILES ADT: 18,000 4-LANE 2-WAY MAXIMUM TRAVEL DISTANCE: 1.00 MILES POSTED SPEED: 35 MPH

DETOUR PLAN LEGEND



WORK ZONE

DETOUR ROUTE

DIRECTION OF REROUTED TRAFFIC

DETOUR SIGN

- 5. SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
- 6. A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE CONSTRUCTION, THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG MILWAUKEE AVE AND DEMPSTER ST AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CONSTRUCTION. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY FOR CHANGEABLE MESSAGE SIGN.
- 7. LOCAL ACCESS SHALL BE PROVIDED AT ALL TIMES TO RESIDENTS AND BUSINESSES.

STATE	OF	ILLINOIS	
DEPARTMENT ()F T	RANSPORTATION	

IL 21 (MILWAUKEE AVE) OVER US 14 (DEMPSTER ST)	RTE.	SI
DETOUR ROUTE MILWAUKEE AVE (NB) TO DEMPSTER ST (WB)	374	FAP C
DETOON HOUTE IMIEVACKEE AVE (NB) TO DEMITSTER 31 (WB)		
LE. NIT C CHEET NO 5 OF A CHEETC CTA TO CTA		





















8 WEST M3-4-2412





10 END DETOUR M4-8a-30X24

OAKTON STREET JURISDICTION: NILES ADT: 24,400 4-LANE 2-WAY MAXIMUM TRAVEL DISTANCE: 0.60 MILES POSTED SPEED: 35 MPH

WAUKEGAN ROAD (II. 43)
JURISDICTION: STATE
ADT: 12,000
4-LANE 2-WAY
MAXIMUM TRAVEL DISTANCE: 1.02 MILES
POSTED SPEED: 35 MPH

13 **A** M6-3-2115

2. DRIVERS WILL TURN LEFT ONTO EASTBOUND OAKTON STREET UNTIL WAUKEGAN ROAD (IL 43).

3. DRIVERS WILL TURN LEFT ONTO NORTHBOUND WAUKEGAN ROAD (IL 43) UNTIL DEMPSTER STREET (US 14).

4. DRIVERS WILL TURN RIGHT TO CONTINUE ALONG EASTBOUND DEMPSTER STREET (US $14)\ \mbox{AND}$ COMPLETE THE DETOUR.

DETOUR PLAN LEGEND

DETOUR SIGN





WORK ZONE DETOUR ROUTE



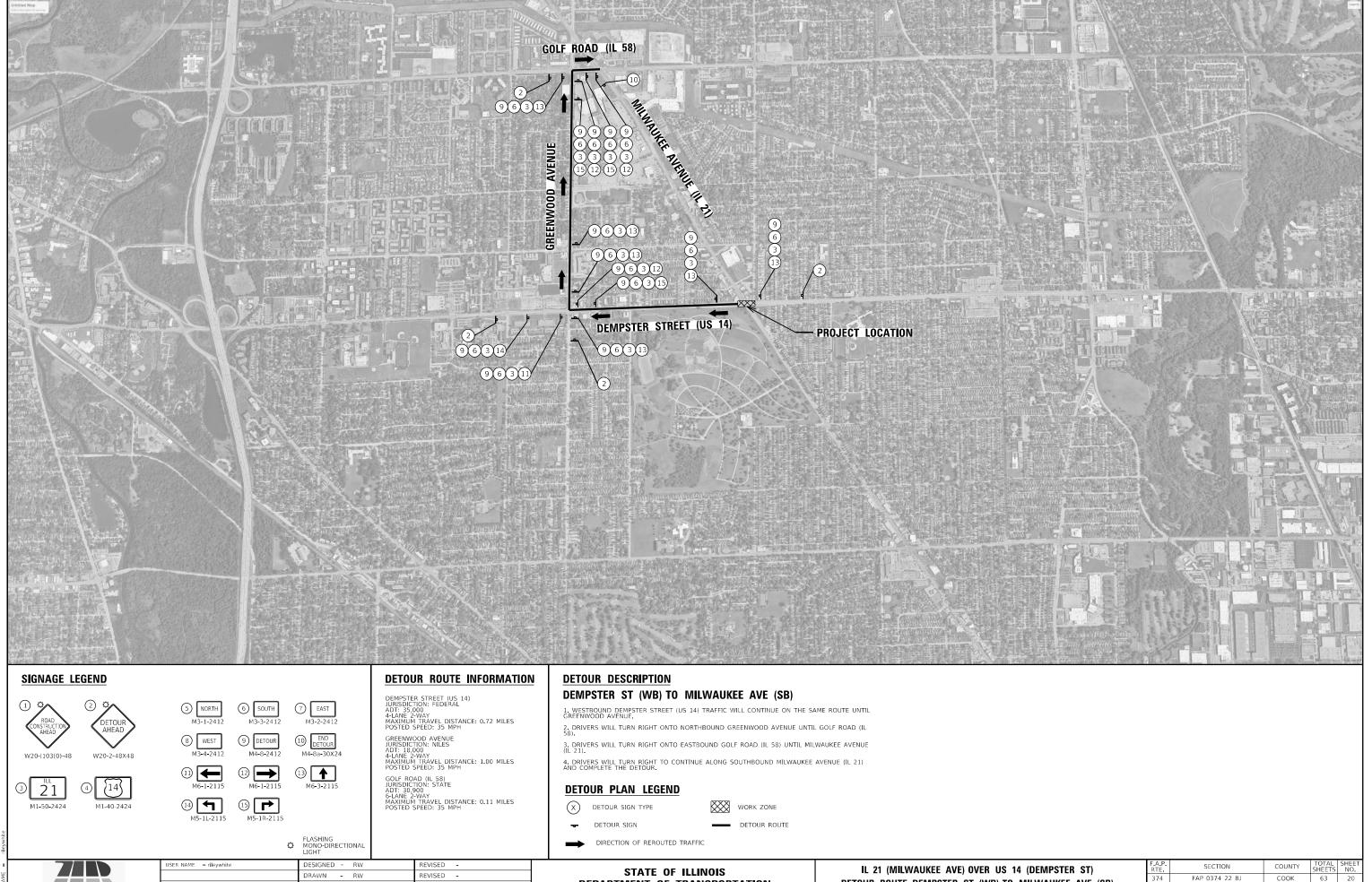
DIRECTION OF REROUTED TRAFFIC

7/	
Ardmore	Poderick

USER NAME = rileywhite	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 2.0000 / in	CHECKED - YK	REVISED -
PLOT DATE = 3/25/2024	DATE - 03/25/2024	REVISED -

IL 21 (MILWAUK	(EE AVE)	OVER U	S 14	(DEMPSTER	ST)
DETOUR R	DUTE MIL	WAUKE	(SB) AV	/E TO	DEMPSTER	ST (EB)
N.T.S.	SHEET NO.	6 OF 8 S	SHEETS	STA.	TO STA	١.

F.A.P. RTE	SECT	ПОИ	COUNTY	TOTAL SHEETS	SHE	
374	FAP 037	4 22 BJ	COOK	63	19	
·				CONTRAC	T NO. 6	2T2
FED, R	OAD DIST, NO. 1	ILLINOIS	FED. A	ID PROJECT		



DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE DEMPSTER ST (WB) TO MILWAUKEE AVE (SB)

SCALE: N.T.S. SHEET NO. 7 OF 8 SHEETS STA.

CONTRACT NO. 62T24

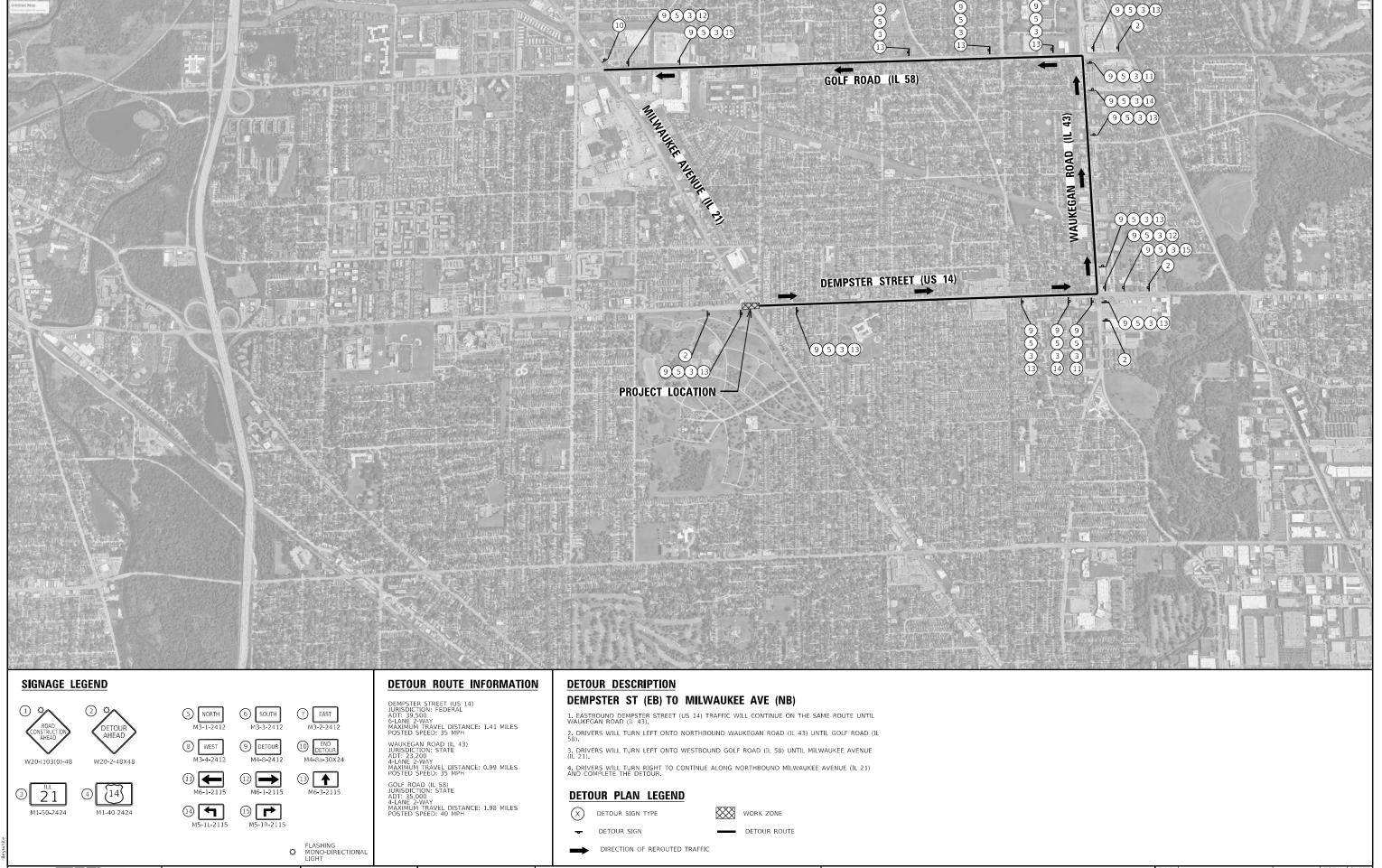
E = \$FILE\$

FILE NAME = \$FI PLOT SCALE = 2.0 HSFR NAME = die

<u>Ardmore Pod</u>erick

CHECKED - YK

REVISED -



E = \$FILE\$

FILE NAME = \$FI PLOT SCALE = 2.0 USER NAME = die

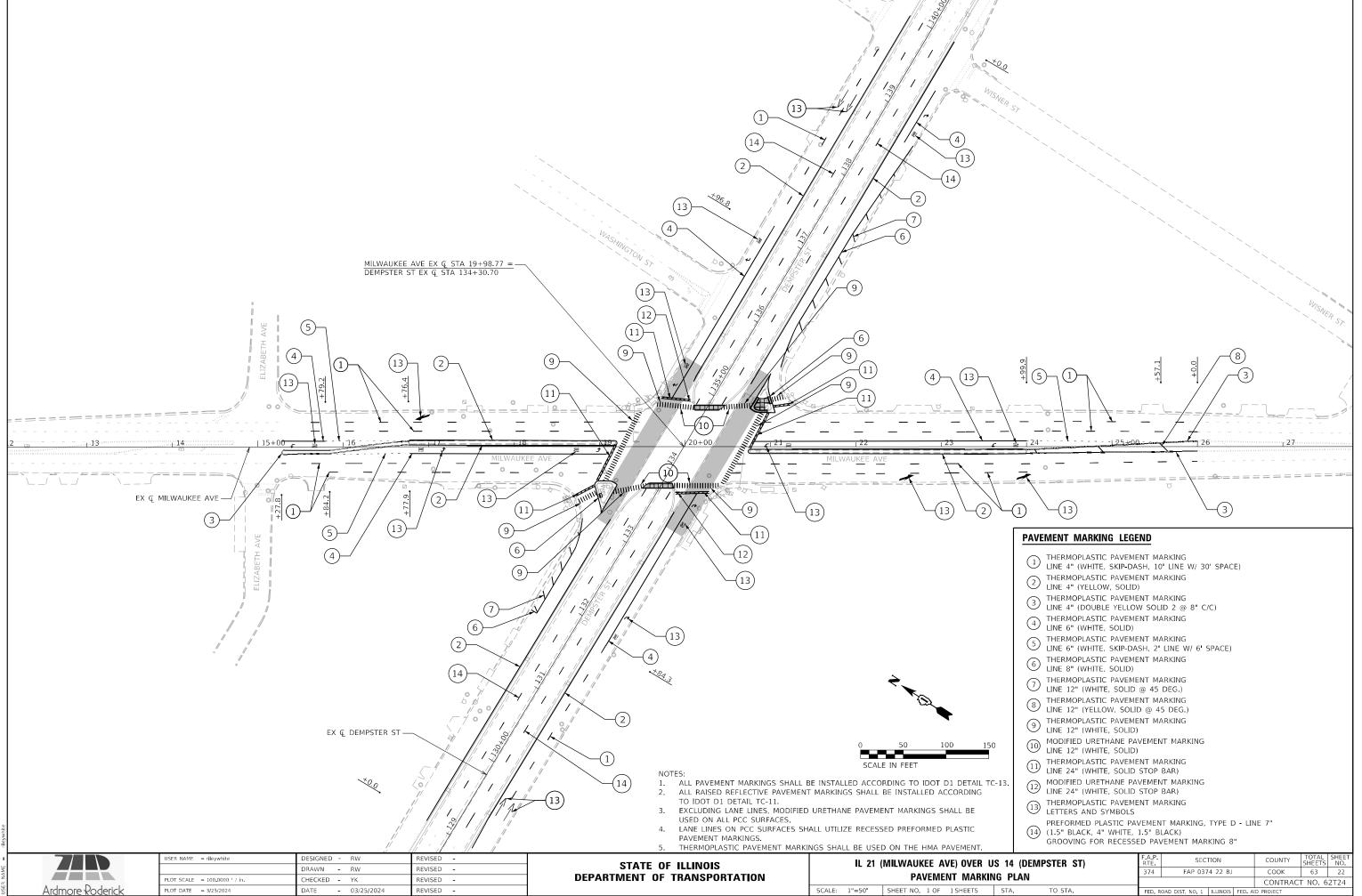
Ardmore Roderick

USER NAME = rileywhite	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 2.0000 / in	CHECKED - YK	REVISED -
PLOT DATE = 3/25/2024	DATE - 03/25/2024	REVISED -

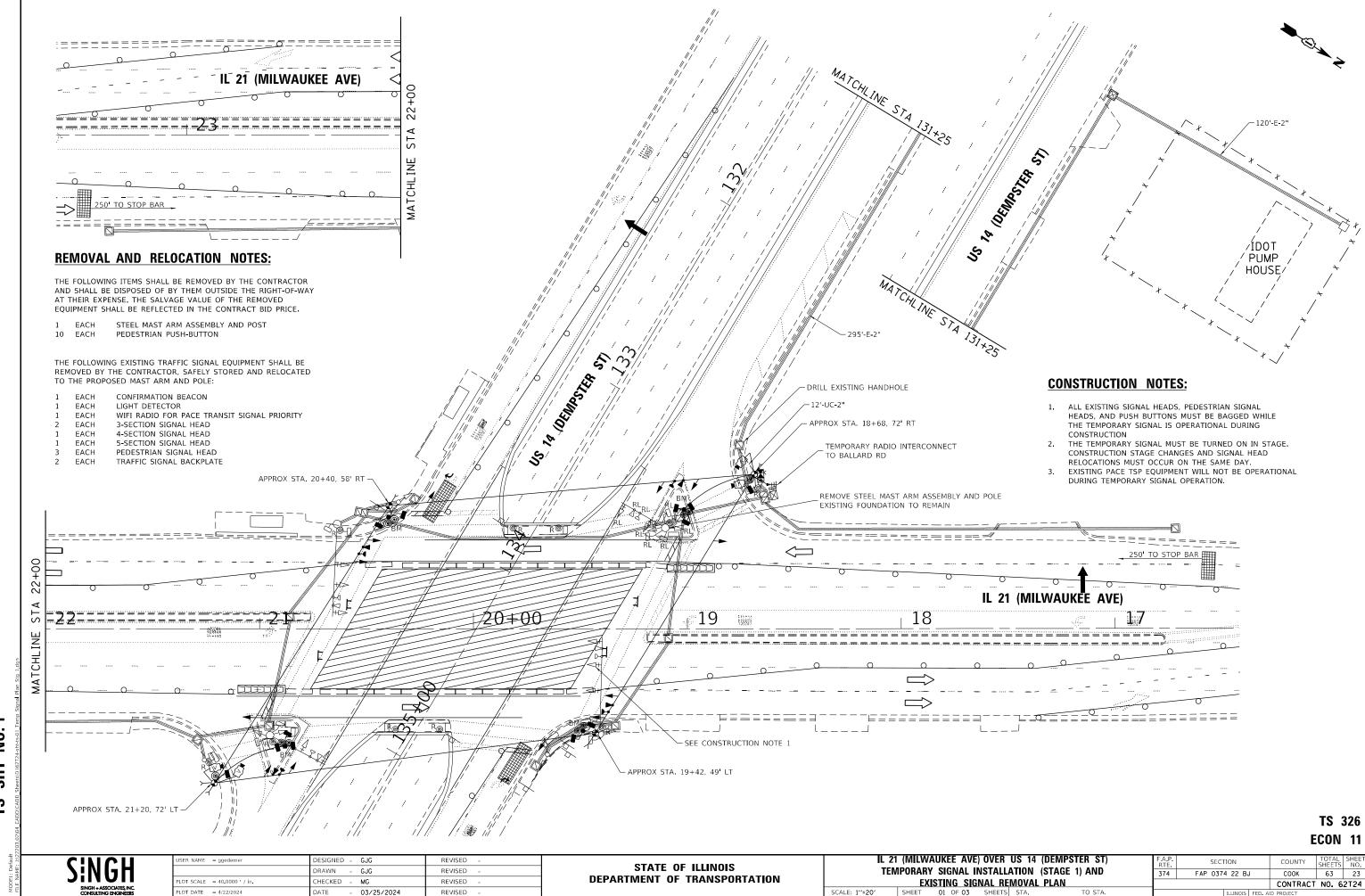
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

IL 21 (MILWAUKEE A	(VE) OVER U	S 14 (DEMPSTI	ER ST)
DETOUR RO	OUTE DEMPST	ER ST (EB)	TO MILWAUKEE	AVE (NB)

TE.	SEC	HON		COUNTY	SHEETS	NO.
374	FAP 037	4 22 BJ		соок	63	21
				CONTRAC	T NO. 6	2T24
FED. R	OAD DIST, NO. 1	ILLINOIS	FED. A	ID PROJECT		

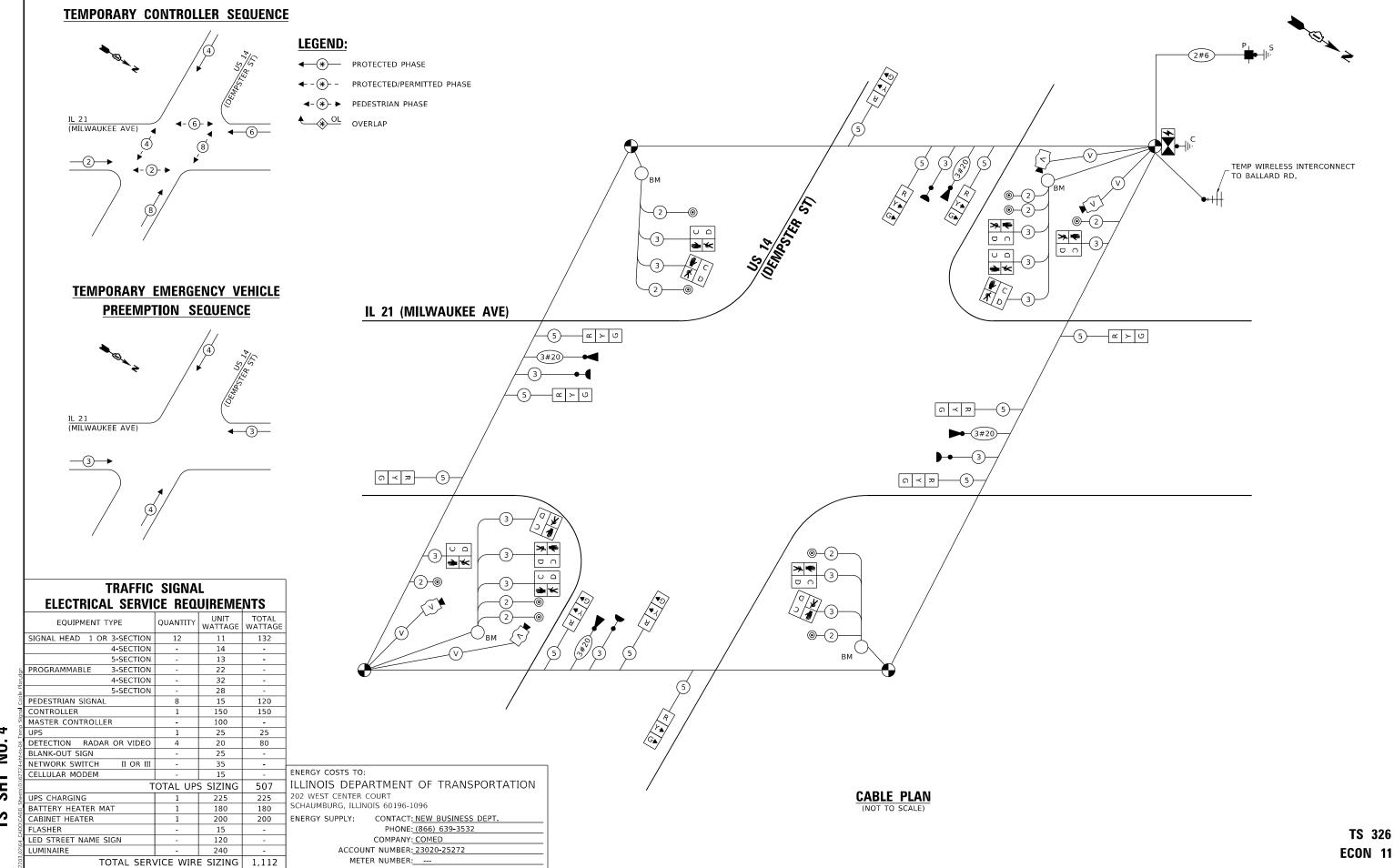


FILE NAME = \$FIL



<u>0</u> SHT

03/25/2024



<u>8</u> SHT

ESIGNED - GJG

DRAWN - GJG

CHECKED - MG

03/25/2024

LOT SCALE = 2.0000 ' / in.

PLOT DATE = 4/22/2024

REVISED

REVISED

REVISED

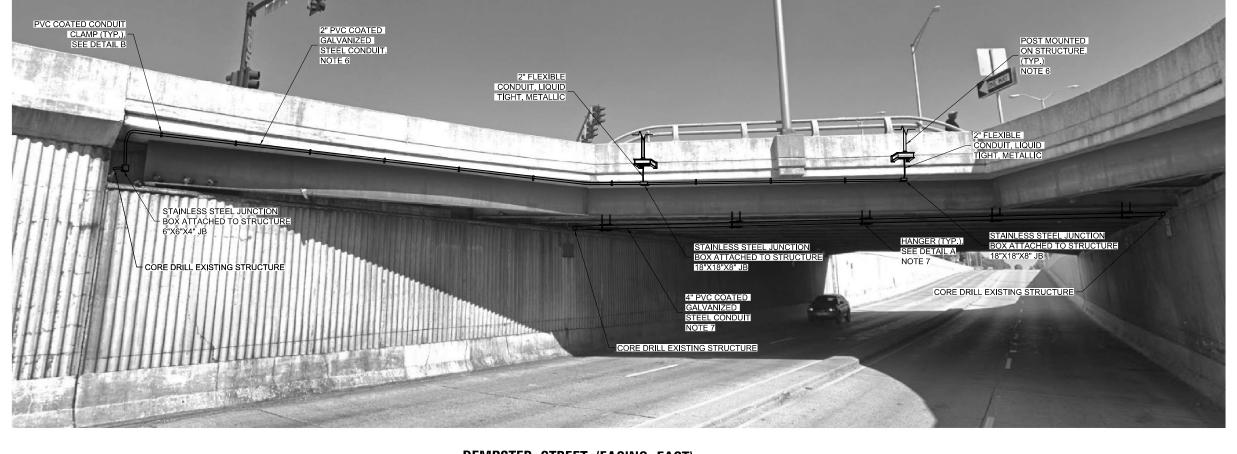
REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** IL 21 (MILWAUKEE AVE) OVER US 14 (DEMPSTER ST)
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE SHEETS STA.

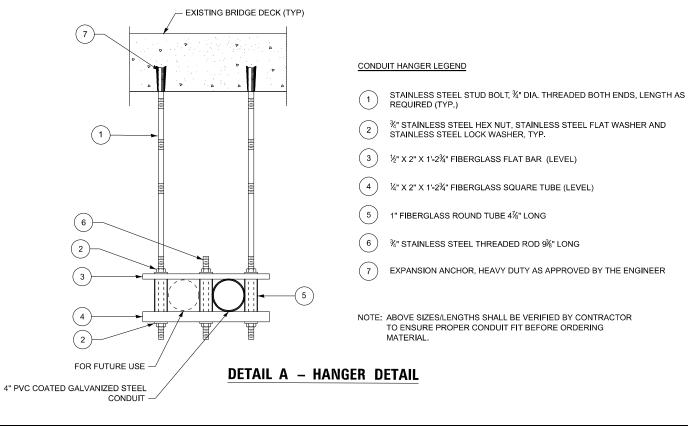
SECTION COUNTY COOK 63 26 FAP 0374 22 BJ CONTRACT NO. 62T24

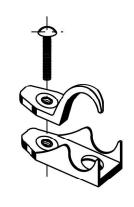
SHT

03/25/2024



DEMPSTER STREET (FACING EAST)





DETAIL B - PVC COATED
CONDUIT CLAMP

NOTES:

- CONDUIT SHALL BE SUPPORTED AT A MAXIMUM INTERVAL OF 5' AND WITHIN 2'-6" OF ANY JUNCTION BOX, COUPLING/FITTING OR CHANGE IN DIRECTION
- 2. ALL HARDWARE SHALL BE STAINLESS STEEL IN ACCORDANCE WITH ARTICLE 1006.31 OF THE STANDARD SPECIFICATIONS.
- 3. CONDUIT SHALL NOT COME INTO CONTACT WITH ANY BRACING OR OTHER STRUCTURAL MEMBERS.
- 4. PROVIDE 1" MINIMUM CLEARANCE TO ALL STRUCTURAL MEMBERS.
- 5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION, ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- 6. REFER TO STRUCTURAL DRAWINGS FOR DETAILS
- 7. IN NO INSTANCE SHALL ANY ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).

TS 326 ECON 11

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

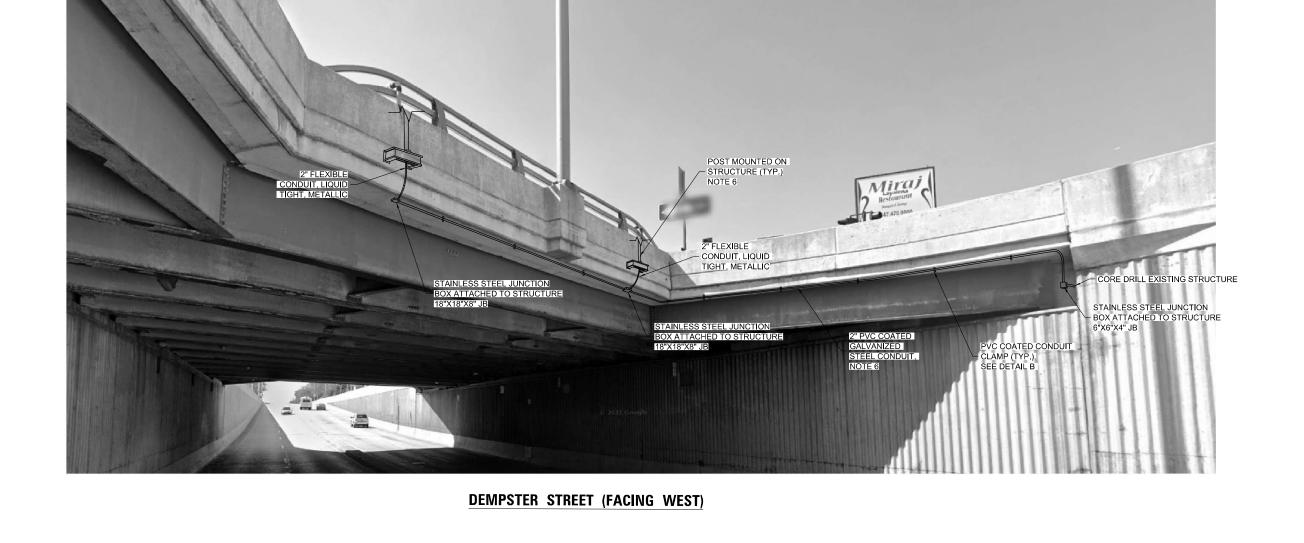
IL 21 (MILWAUKEE AVE) OVER US 14 (DEMPSTER ST)
TRAFFIC SIGNAL SECTIONS AND DETAILS

S SHEET 01 OF 03 SHEETS STA. TO STA

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

 374
 FAP 0374 22 BJ
 COOK
 63
 28

 CONTRACT NO. 62T24



NOTES:

- 1. CONDUIT SHALL BE SUPPORTED AT A MAXIMUM INTERVAL OF 5' AND WITHIN 2'-6" OF ANY JUNCTION BOX, COUPLING/FITTING OR CHANGE IN
- 2. ALL HARDWARE SHALL BE STAINLESS STEEL IN ACCORDANCE WITH ARTICLE 1006.31 OF THE STANDARD SPECIFICATIONS.
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TS 326 ECON 11

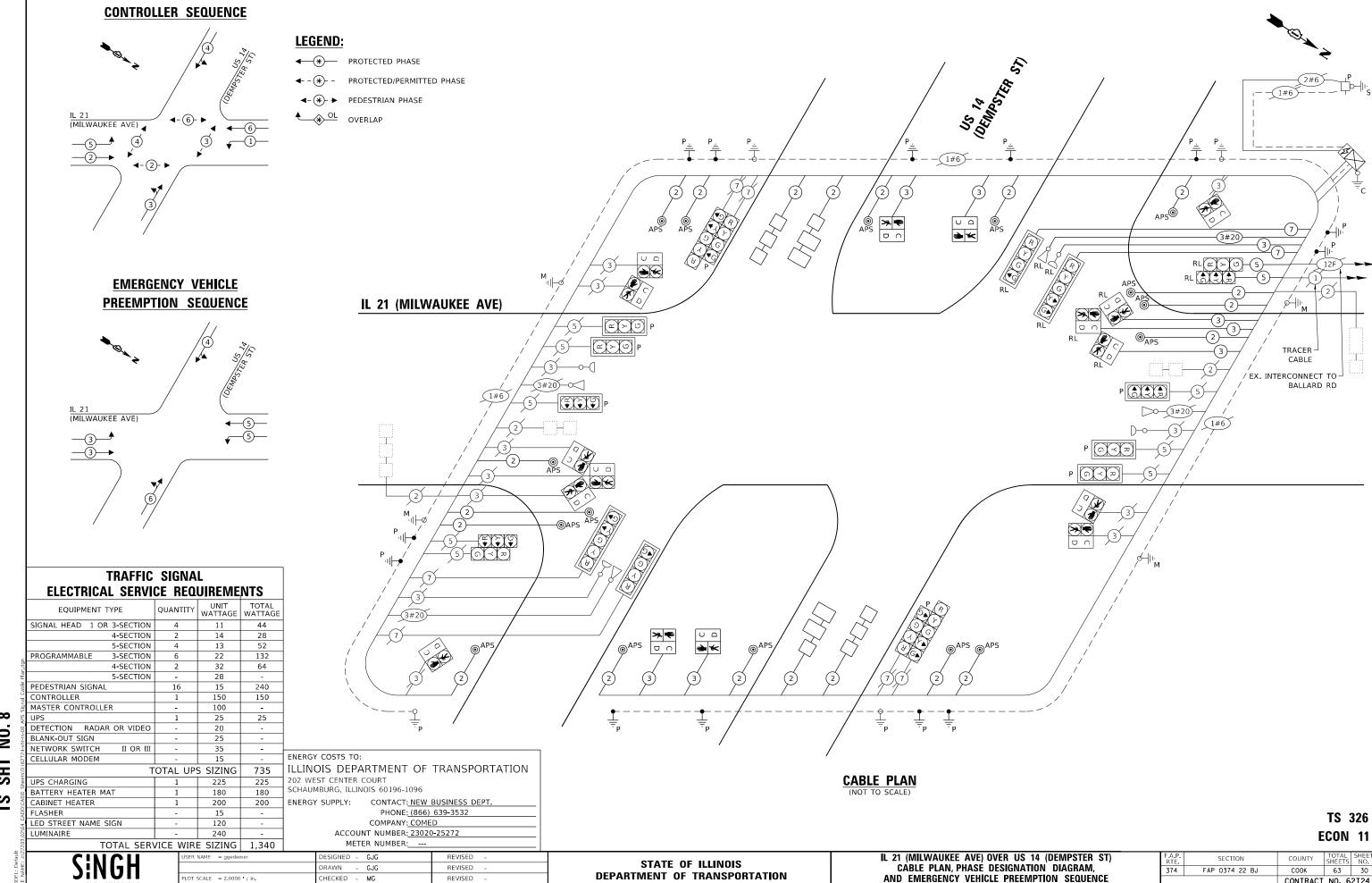


JSER NAME = ggedemer	DESIGNED	-	GJG	REVISED -
	DRAWN	-	GJG	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED	-	MG	REVISED -
PLOT DATE = 4/22/2024	DATE	-	03/25/2024	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

,		JKEE AVE) (Signal se		•	R ST)
SCALE: NTS	SHEET	01 OF 03	SHEETS	STA.	TO STA.

SECTION COUNTY COOK 63 29 374 FAP 0374 22 BJ CONTRACT NO. 62T24



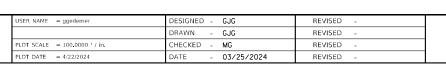
CONTRACT NO. 62T24

<u>S</u> SHT

PLOT DATE = 4/22/2024

03/25/2024

MATCHLINE



STATE OF ILLINOIS

IL 21 (MILWAUKEE AVE) OVER US 14 (DEMPSTER ST) TEMPORARY TRAFFIC SIGNAL INTERCONNECT PLAN

SECTION COOK 63 31

CONTRACT NO. 62T24 FAP 0374 22 BJ

TS 326 ECON 11

00+6

 STA

MATCHLINE



ITEM DESCRIPTION	UNITS	TOTAI QTY
REMOVE AND RELOCATE SIGN PANEL - TYPE 1	SQ FT	9
REMOVE AND RELOCATE SIGN PANEL - TYPE 2	SQ FT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	160
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	80
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	85
CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	70
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	2
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,820
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1.290
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	191
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	233
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	940
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
DRILL EXISTING HANDHOLE	EACH	13
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	4
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,998
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	118
ROD AND CLEAN EXISTING CONDUIT	FOOT	365
CONDUIT, FLEXIBLE, LIQUID TIGHT, METALLIC, 2" DIAMETER	FOOT	40
TRAFFIC SIGNAL POST, 10 FOOT, (SPECIAL)	EACH	4
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	9
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	16
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	64
DETECTOR LOOP REPLACEMENT	FOOT	405
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE VILLAGE OF NILES

S		N	G	Н
_	- SIN	1GH + V	SSOCIAT	ES INC

DEPARTMENT OF TRANSPORTATION

TEMPORARY RADIO INTERCONNECT TO BALLARD RD

IL 21 (MILWAUKEE AVE)

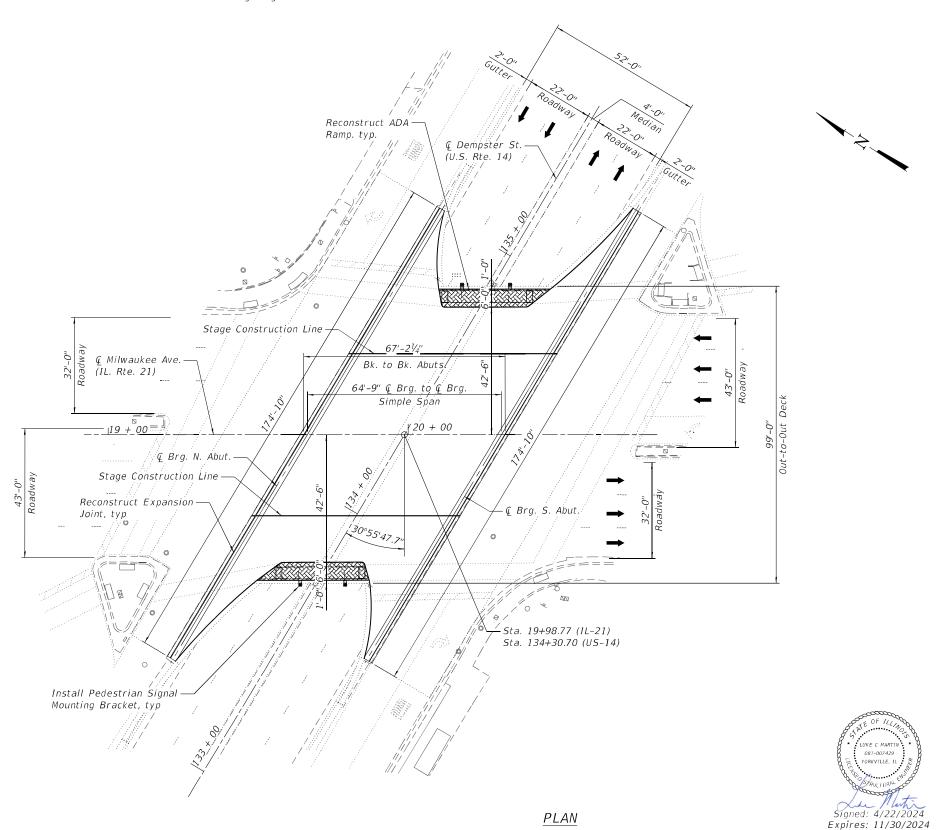
EXISTING INTERCONNECT TO MARYLAND ST

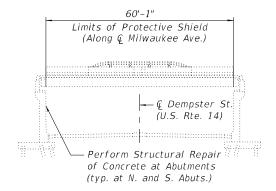
TEMPORARY RADIO INTERCONNECT TO US 14 (DEMPSTER ST)

Benchmark: 1. Flagged bolt on fire hydrant at the northwesterly corner of Milwaukee Ave. and Dempster St. Elev. 663.80.
2. Flagged bolt on fire hydrant at the southwesterly corner of Milwaukee Ave. and Dempster St. Elev. 662.68.

Existing Structure: SN 016-2572 on Milwaukee Ave. (IL Rt. 21) over Depster St. (U.S. Route 14) in the village of Niles was originally built in 1990. The existing structure consists of a single span structure with reinforced concrete slab and steel beams supported on closed abutments with concrete piles. The back to back abutments is $67'-2\frac{1}{4}''$ and the out-to-out width varies from 101'-0'' to 174'-10''. Traffic to be maintained utilizing stage construction.

Salvage: No salvage.





ELEVATION

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Substructure) f'c = 4,000 psi (Superstructure) fy = 60,000 psi (Reinforcement) fy = 50,000 psi (M270 Grade 50)

SCOPE OF WORK

- 1. Install Protective Shield.
- 2. Repair and Overlay bridge deck.
- 3. Reconstruct the ADA ramps on the bridge
- 4. Reconstruct the expansion joints at each abutment.
- 5. Repair parapets and railings.
- 6. Repair Substructure elements.
- 7. Install Pedestrian Signal Mounting Brackets



LOCATION SKETCH

GENERAL PLAN & ELEVATION

F.A.P. ROUTE 374

MILWAUKEE AVE (IL. RTE. 21) OVER

DEMPSTER ST (U.S. RTE. 14)

SECTION 0374 22 BJ

STA. 19 + 98.77 (IL. RTE. 21)

STRUCTURE NO. 016-2572

GARZA KARHOFF
ENGINEERING, LLC

NAME SCALE NAME

USER NAME = Elisa Godinez	DESIGNED - EG	REVISED -
	DRAWN - EG	REVISED -
PLOT SCALE = 32.0000 / in.	CHECKED - LM	REVISED -
PLOT DATE = 4/22/2024	DATE - 03/25/2024	REVISED -

F.A.P RTE.	SECT	TION			COUNTY	TOTAL SHEETS	SHEET NO.
374 FAP 0374 22 BJ					COOK	63	32
					CONTRACT	NO. 6	2T24
FED. R	DAD DIST. NO. 1	ILLINOIS	FED.	AID	PROJECT		

GENERAL NOTES

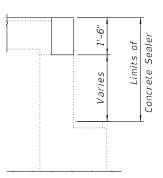
- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Plan dimensions and details relative to existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3. Concrete Sealer shall be applied to each abutment backwall. All surfaces to be sealed shall be cleaned thoroughly prior to sealer application.
- 4. Stage construction shall be utilized to maintain traffic during construction.
- 5. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams and diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
- 6. Prior to pouring the new concrete deck for expansion joint replacement and deck slab repairs, all heavy or loose rust, loose mill scale, and other loose detrimental foreign meterial shall be removed from the surfaces in contact with concrete (SSPC SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.
- 7. Protective Coat shall be applied to the top surface of the deck repairs, sidewalks, reconstructed joint area, and new concrete overlay areas, per Section 503.19 of the Standard Specifications.
- 8. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
- 9. Bars indicated thus, 3x2-#5, indicates 3 lines of #5 bars with 2 lengths of bar per line.
- 10. Structural Repair of concrete on the abutment faces shall use the same architectural finish as shown on the existing plans. See sheet S-14.

INDEX OF SHEETS

- S-01 General Plan and Elevation
- S-02 General Data
- S-03 Construction Staging
- S-04 Temporary Concrete Barrier S-05 Deck Repair and Overlay Plan
- S-06 Sidewalk Reconstruction Details
- S-07 Pedestrian Signal Mounting Bracket Details
- S-08 Parapet Removal and Replacement
- S-09 Expansion Joint Removal & Replacement Plan
- S-10 Expansion Joint Details
- S-11 Preformed Joint Strip Seal
- S-12 North Abutment Repairs
- S-13 South Abutment Repairs
- S-14 Bar Splicer Assembly and Mechanical Splicer Details
- S-15 Existing Plans

TOTAL BILL OF MATERIAL

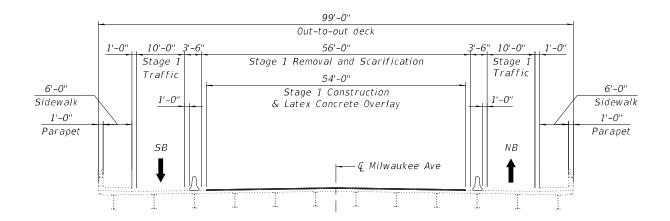
TOTAL DILL OF MATERIAL				
ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	58.5		58.5
Protective Shield	Sq Yd	762		762
Concrete Superstructure	Cu Yd	62.4		62.4
Protective Coat	Sq Yd	816		816
Reinforcement Bars, Epoxy Coated	Pound	7,590		7,590
Bar Splicers	Each	52		52
Preformed Joint Strip Seal	Foot	350		350
Concrete Sealer	Sq Ft	1,224		1,224
Bridge Deck Latex Concrete Overlay, 2 1/2 Inches	Sq Yd	688		688
Bridge Deck Scarification 3/4"	Sq Yd	688		688
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	55	170	225
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft		24	24
Deck Slab Repair (Full Depth, Type I)	Sq Yd	2		2
Furnishing and Erecting Structural Steel, Special	L Sum	1		1



LIMITS OF CONCRETE SEALER

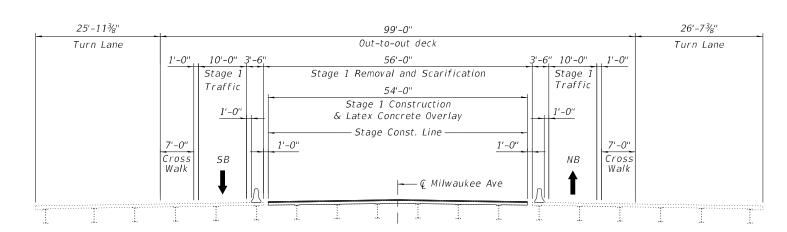


USER NAME = Elisa.Godinez	DESIGNED - EG	REVISED -
	DRAWN - EG	REVISED -
PLOT SCALE = 2.0000 / in	CHECKED - LM	REVISED -
PLOT DATE = 4/22/2024	DATE - 03/25/2024	REVISED -



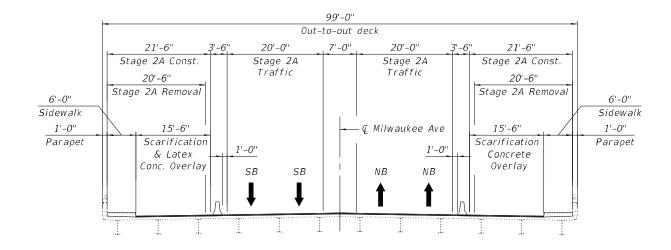
STAGE 1 AT MIDSPAN

(Looking Northeast)



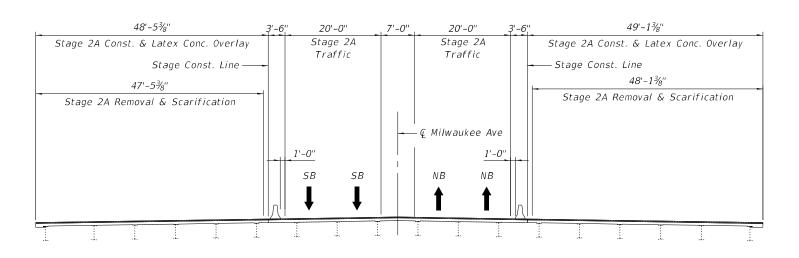
STAGE 1 AT EXP. JOINT

(Looking Northeast)



STAGE 2A AT MIDSPAN

(Looking Northeast)



STAGE 2A AT EXP. JOINT

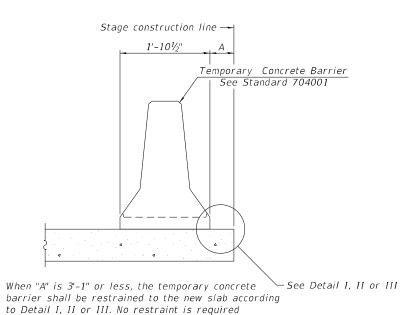
(Looking Northeast)

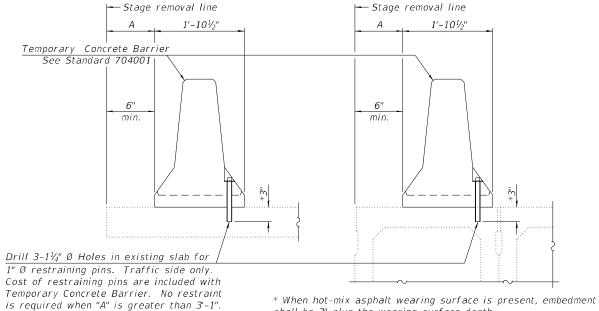
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	DRAWN	-	EG	REVISED -
PLOT SCALE = 20.0000 / in	CHECKED	-	LM	REVISED -
PLOT DATE = 3/22/2024	DATE	-	03/25/2024	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

				TAGING 6–2572	
SHEET	S-03	OF	S-15	SHEETS	

NAME = SCALE = NAME =





1x8 UNC 1/16" Ø hole US Std. 11/16" I.D. x 21/2" O.D. x approx. 8 gauge thick washer RESTRAINING PIN

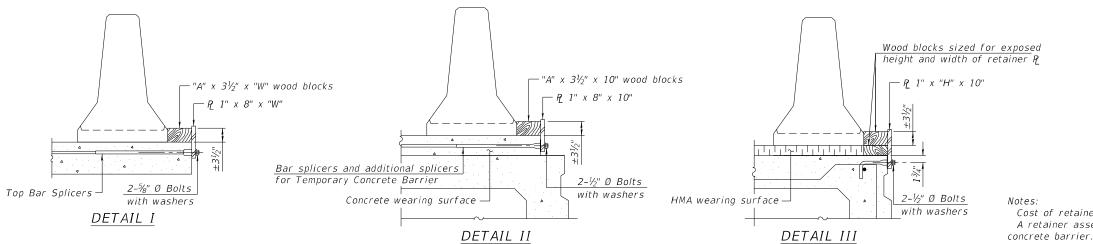
EXISTING DECK BEAM

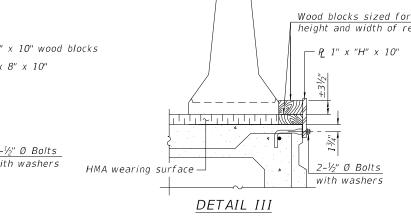
NEW SLAB OR NEW DECK BEAM

when "A" is greater than 3'-1".

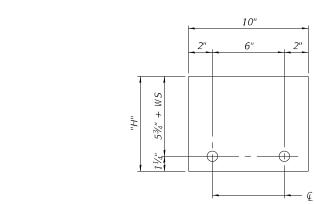
SECTIONS THRU SLAB OR DECK BEAM

EXISTING SLAB





shall be 3" plus the wearing surface depth.



— Ç ¾" Ø Holes

STEEL RETAINER P 1" x "H" x 10"

(Detail III)

the shear key clamping device. Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate (of each temporary

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted

and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate

BAR SPLICER FOR #4 BAR - DETAIL III

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

63 | 35

Detail II Detail I 2" Top bars Spa. 2" Detail 11 ¢ %" Ø Holes

RAILING CRITERIA

NCHRP	350 Test Level	3
Railing	Weight (plf)	440

R-27

5-15-2023

STEEL	RETAINER	PL	1"	Χ	8"	Χ	"W"

(Detail I and II)

Detail I

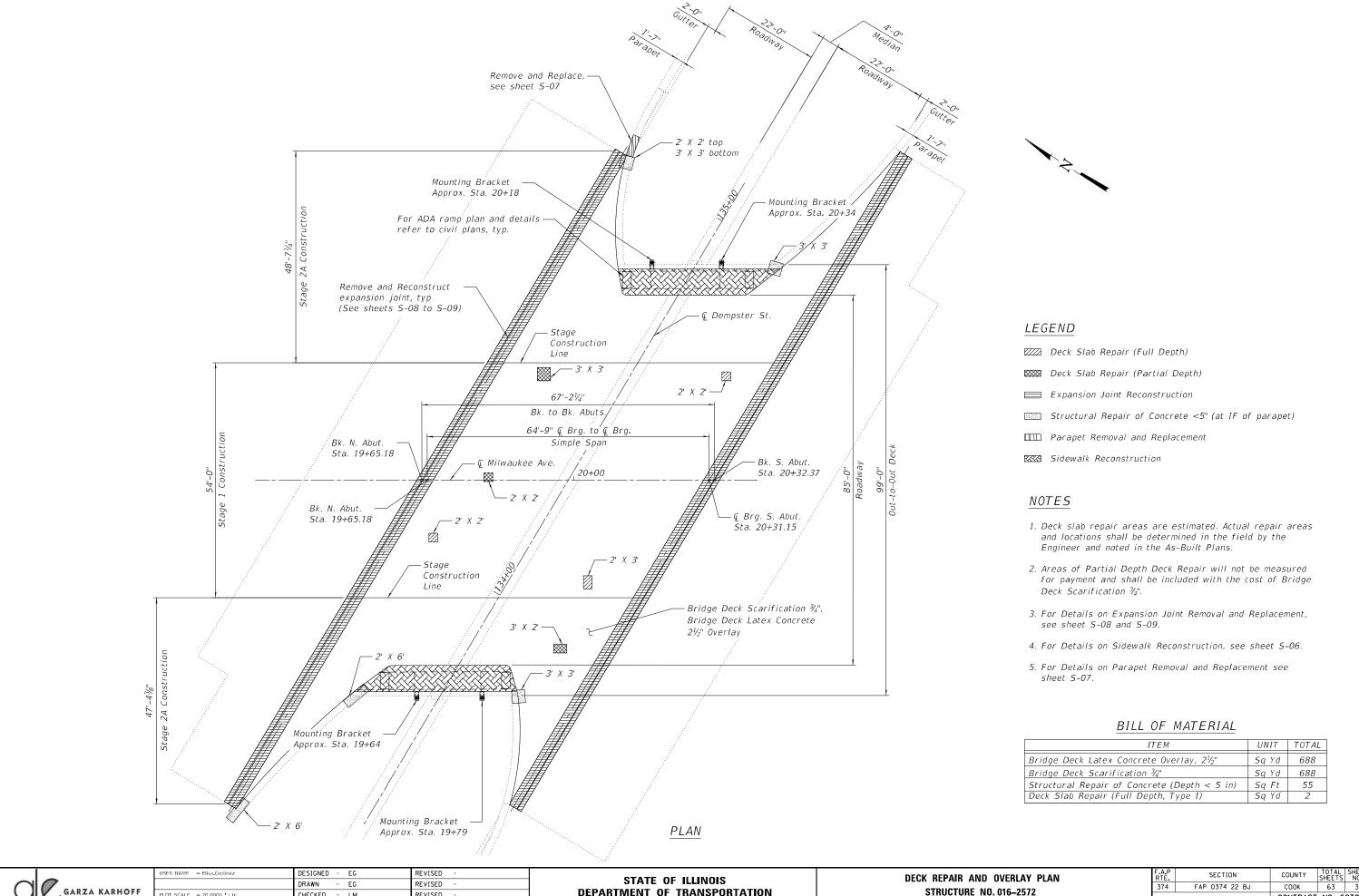
GARZA KARHOFF ENGINEERING, LLC

USER NAME = Elisa.Godinez	DESIGNED	-	EG	REVISED	-
	DRAWN	-	EG	REVISED	-
PLOT SCALE = 2.0000 / in	CHECKED	-	LM	REVISED	-
PLOT DATE = 3/22/2024	DATE	-	03/25/2024	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TEMPORARY CONCRETE BARRIER	F.A.P RTE.			SE	СТ	ION			COUNT	١
STRUCTURE NO. 016-2572	374		FAF	03	374	1 22 E	J		COOK	
31NUCTURE NO. 010-2372	_							Т	CONTR	
SHEET S-04 OF S-15 SHEETS	FED B	OVU	DICT	NO.	П:	TI I INOTS	EED	AIC	PPOIECT	ī

NAME



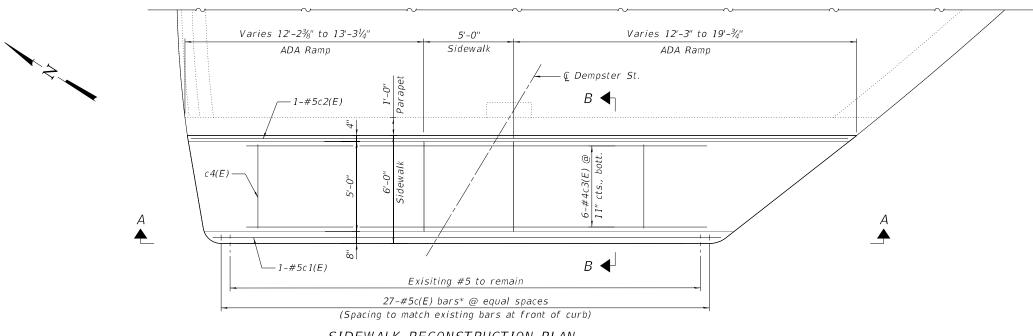
ENGINEERING, LLC

CHECKED - LM REVISED PLOT DATE = 3/22/2024 - 03/25/2024 REVISED DATE

DEPARTMENT OF TRANSPORTATION

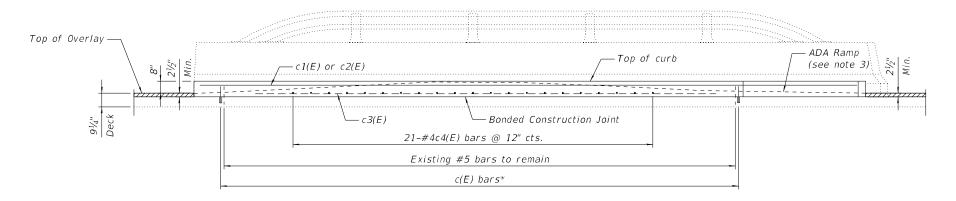
DECK REPA	IR ANI	D OVERLAY	/ PLAN					
DECK REPAIR AND OVERLAY PLAN STRUCTURE NO. 016-2572 SHEET S-05 OF S-15 SHEETS								
SHEET	S-05 OF	S-15 SHEET	S					

F.A.P RTE.			SE	ECT	ΓΙΟΝ			COUNTY	TOTAL SHEETS	SHEET NO.
374		FAP 0374 22 BJ						COOK	63	36
								CONTRACT	NO. 6	2T24
FED. R	OAD I	DIST.	NO.	1	ILLINOIS	FED.	AII	PROJECT		



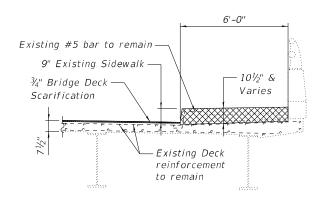
SIDEWALK RECONSTRUCTION PLAN

(NB shown, SB similar)



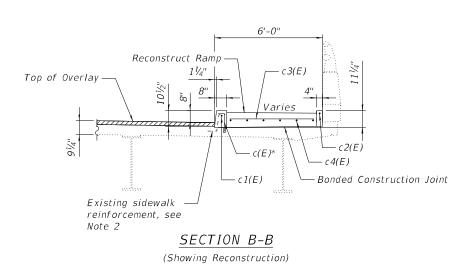
SECTION A-A

(NB shown, SB similar)



SECTION B-B

(Showing Removal)



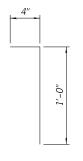
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
c(E)	54	#5	1'-4"	
c1(E)	2	#5	28'-3"	
c2(E)	2	#5	36'-6"	
c3(E)	12	#4	25'-6"	
c4(E)	42	#4	4'-8"	
	Item		Unit	Total
Concre	te Rem	oval	Cu. Yd.	8.5
		Bars,	Pound	550
		·e	Cu. Yd.	8
	c(E) c1(E) c2(E) c3(E) c4(E) Concre Reinfo Epoxy Concre	c(E) 54 c1(E) 2 c2(E) 2 c3(E) 12 c4(E) 42 Item Concrete Rem. Reinforcement Epoxy Coated Concrete	c(E) 54 #5 c1(E) 2 #5 c2(E) 2 #5 c3(E) 12 #4 c4(E) 42 #4 Item Concrete Removal Reinforcement Bars, Epoxy Coated	c(E) 54 #5 1'-4" c1(E) 2 #5 28'-3" c2(E) 2 #5 36'-6" c3(E) 12 #4 25'-6" c4(E) 42 #4 4'-8" Item Unit Concrete Removal Cu. Yd. Reinforcement Bars, Epoxy Coated Concrete

LEGEND

₩ Concrete Removal

Bridge Deck Latex Concrete Overlay, 21/2"



 $BAR \ c(E)$

* Drill and set #5 c(E) bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 4". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Located drilled holes to miss transverse bars in deck.

NOTES

- 1. For sidewalk stations, offsets, elevations and slopes, see roadway plans.
- 2. Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any existing reinforcement bars intended for reuse and damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system to the satisfaction of the Engineer. Cost included with Concrete Removal.
- 3. ADA Ramp shall be paid as Concrete Superstructure. The concrete shall be Class BS with a Coarse Aggregate Gradation of CA 13, CA 14, or CA 16. See ADA Plans in Roadway plans for additional details.



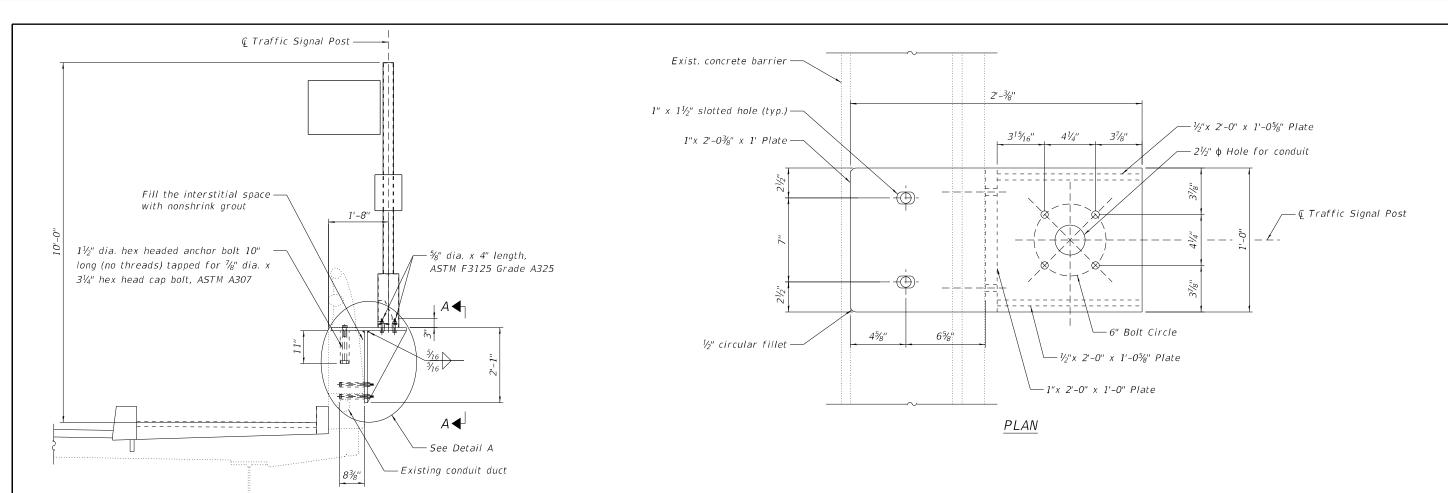
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	DRAWN	-	EG	REVISED	-
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PLOT DATE = 4/22/2024	DATE	-	03/25/2024	REVISED	-

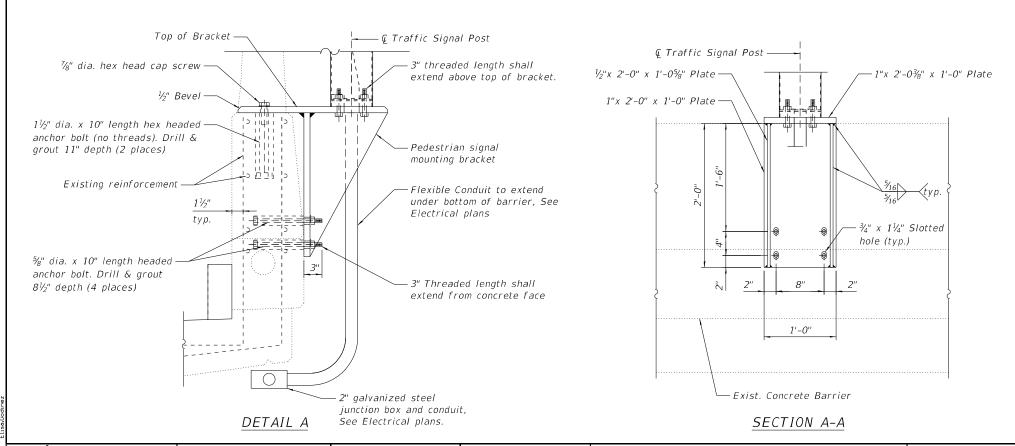
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SIDEWALK RECONSTRUCTION DETAILS						
STRUCTURE NO. 016-2572						
SHEET S-NG NE S-15 SHEETS						

F.A.P RTE.	SECTION				COUNTY	TOTAL SHEETS	SHEET NO.
374	FAP 0374 22 BJ			T	СООК	63	37
·					CONTRACT	NO. 6	2T24
FED. R	DAD DIST. NO. 1	ILLINOIS	FED.	AID	PROJECT		



SECTION THRU PEDESTRIAN SIGNAL MOUNTING BRACKET



NOTES:

- 1. See Std. TS05 District 1 Standard Traffic Signal Details for Sign Details and Post Details.
- 2. See Electrical Plans for installation of conduit and junction boxes.
- 3. Signal post bracket installation notes:
- a) Drill holes for the $1\frac{1}{2}$ " dia. vertical and $\frac{5}{6}$ " dia. horizontal headed anchor bolts and grout per Section 584 of the Standard Specifications.
- b) Tap the $1\frac{1}{2}$ " dia. vertical anchor bolts for the $\frac{7}{8}$ " dia. x $3\frac{1}{4}$ " hex head bolts.
- c) Locate bracket over the anchor bolts and hand tighten all of the washers, nuts, and bolts.
- d) Fill the interstitial space between the bracket and the existing parapet with nonshrink grout.
- e) While the nonshrink grout is still workable, level the bracket and snug tighten the nuts and bolts.
- 4. All steel plates are AASHTO M270, Grade 50.
- 5. Fasteners shall be ASTM F 3125 Grade A325 Type 1. Fasteners shall be hot dip galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel." Anchor bolts, nuts, and washers shall be according to Section 1006.09 of the Standard Specifications and shall be Hot-Dipped Galvanized.
- 6. All structural steel shall be AASHTO M270 Grade 50 and shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel."
- 7. The furnishing and installation of all Structural Steel, Anchor Bolts, bolts, nuts, washers, and nonshrink grout for the Pedestrian Signal Mounting Brackets shall be included in the Lump Sum cost of Furnishing and Erecting Structural Steel, Special.

BILL OF MATERIAL

Item	Unit	Quantity
Funrnishing and Erecting Structural Steel, Special	L Sum	1

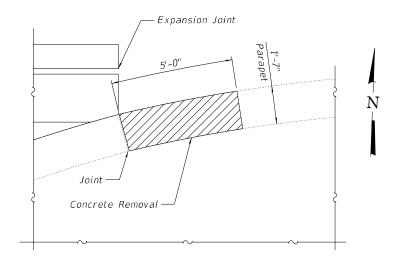
GARZA KARHOFF
ENGINEERING, LLC

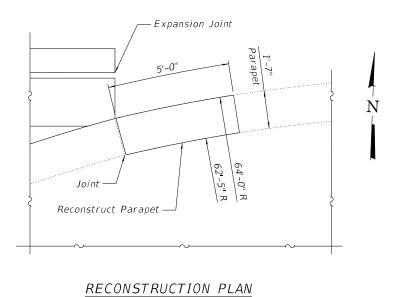
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PLOT DATE = 4/22/2024	DATE	-	03/25/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN	SIGNAL MOUNTING BRACKET DETAILS					
STRUCTURE NO. 016-2572						
	SHEET S-07 OF S-15 SHEETS					

F.A.P RTE.	SECTION					COUNTY	TOTAL SHEETS	SHEET NO.
374	FAP 0374 22 BJ				COOK	63	38	
					T	CONTRACT	NO. 6	2T24
FED. R	OAD DIST.	NO. 1	ILLINOIS	FED.	AID	PROJECT		





(NE quadrant)

BILL OF MATERIAL Bar No. Size Length Shape

3'-0"

Unit

Cu. Yd.

Cu. Yd.

Pound

Total

0.5 0.5

30

3'-0"

5 #4

d1(E) 5 #5

Concrete Superstructure

Concrete Removal

Epoxy Coated

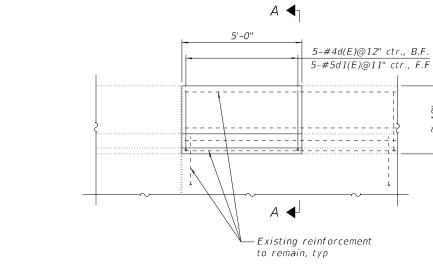
Reinforcement Bars,

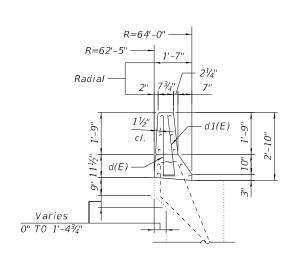
Item

d(E) or d1(E)

REMOVAL PLAN (NE quadrant)

5'-0"





SECTION A-A

REMOVAL ELEVATION

(Looking South)

Existing reinforcement

to remain, typ

RECONSTRUCTION ELEVATION (Looking South)

NOTES

1. Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any existing reinforcement bars intended for reuse and damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system to the satisfaction of the Engineer. Cost included with Concrete Removal.

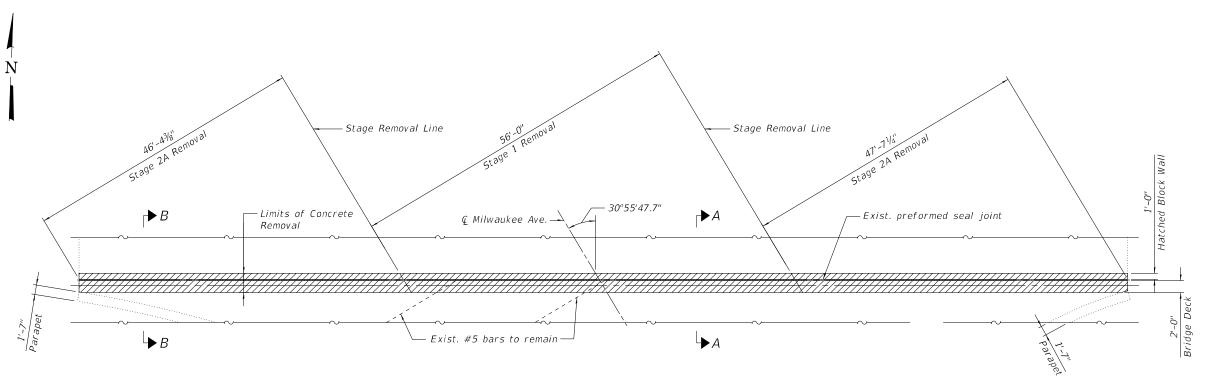
\bigcirc	GARZA KARHOFF	
9	ENGINEERING, LLC	

DESIGNED - EG	REVISED -
DRAWN - EG	REVISED -
CHECKED - LM	REVISED -
DATE - 03/25/2024	REVISED -
	DRAWN - EG CHECKED - LM

PARAPET REMOVAL AND REPLACEMENT						
STRUCTURE NO. 016-2572						
SHEET S-OR OF S-15 SHEETS						

F.A.P RTE.	SEC1	ION		COUNTY	TOTAL SHEETS	SHEET NO.	
374	FAP 037	4 22 BJ		соок	63	39	
				CONTRACT	NO. 6	2T24	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

NAME = SCALE = NAMF =

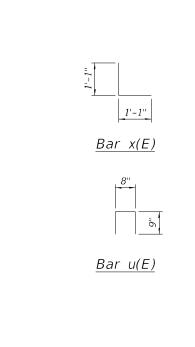


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	32	#5	32'-11"	
a1(E)	32	#5	29'-8"	
a2(E)	<i>32</i>	#5	30'-1"	
a3(E)	68	#5	8'-5"	
a4(E)	12	#5	20'-9"	
a5(E)	6	#5	22'-11"	
h(E)	16	#6	33'-7"	
h1(E)	16	#6	30'-4"	
h2(E)	16	#6	30'-9"	
u(E)	174	#4	2'-2"	П
x(E)	174	#5	2'-2"	L
	Item		Unit	Total
Concre	te Rem	oval	Cu. Yd.	49.5
	orcement Bars, Coated		Pound	7,010
Concre Supers	te structur	e	Cu. Yd.	53.9

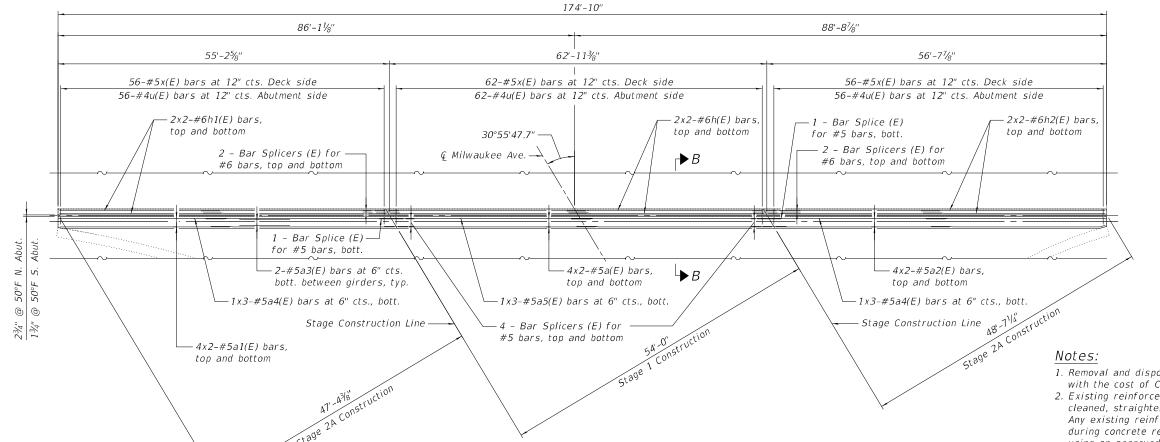
MINIMUM BAR LAP

#5 bar = 3'-1" #6 bar = 4'-5"



JOINT REMOVAL PLAN

(North Abutment shown, South Abutment similar)



JOINT RECONSTRUCTION PLAN

(North Abutment shown, South Abutment similar)

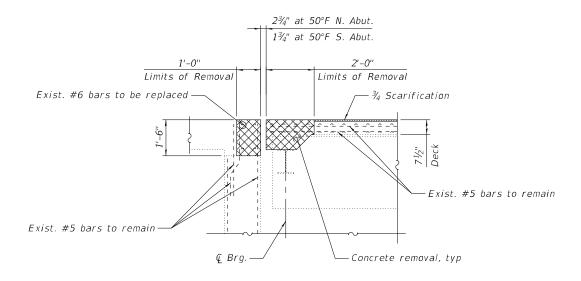
- 1. Removal and disposal of existing expansion joint shall be included with the cost of Concrete Removal.
- 2. Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any existing reinforcement bars intended for reuse and damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system to the satisfaction of the Engineer. Cost included with Concrete Removal.
- 3. The Preformed Joint Strip Seal shall be per the details labeled on sheet S-10.
- 4. For Sections A-A and B-B see sheet S-09.

g	GARZA KARHOFF ENGINEERING, LLC	

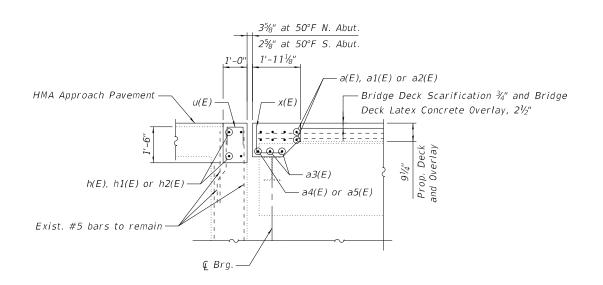
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PLOT DATE = 4/22/2024	DATE	-	03/25/2024	REVISED	-

F.A.P RTE.	RTE. SECTION					COUNTY	TOTAL SHEETS	SHEET NO.		
374	74 FAP 0374 22 BJ				COOK	40				
								CONTRACT	NO. 6	2T24
FED. R	OAD	DIST.	NO.	1	ILLINOIS	FED.	AIC	PROJECT		



SECTION A-A



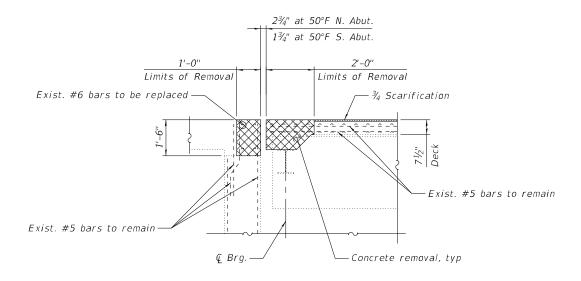
SECTION B-B

GARZA KARHOFF ENGINEERING, LLC

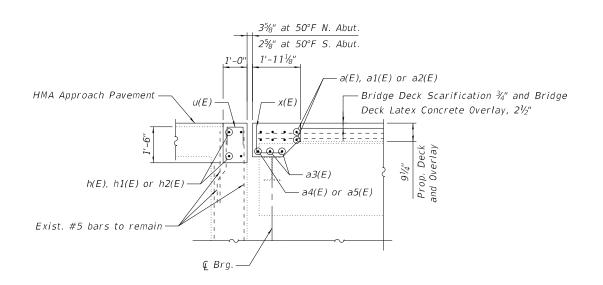
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	DRAWN - EG	REVISED -
PLOT SCALE = 4.0000 / in	CHECKED - LM	REVISED -
PLOT DATE = 4/22/2024	DATE - 03/25/2024	REVISED -

EXPANSION JOINT DETAILS						
STRUCTURE NO. 016-2572						
SHEET S-10 OF S-15 SHEETS						

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
374	FAP 0374 22 BJ	соок	63	41		
		CONTRACT	NO. 6	2T24		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



SECTION A-A



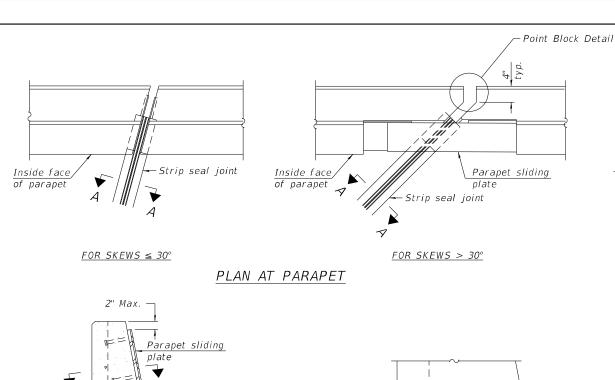
SECTION B-B

GARZA KARHOFF ENGINEERING, LLC

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	DRAWN - EG	REVISED -
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PLOT DATE = 4/22/2024	DATE - 03/25/2024	REVISED -

EXPANSION JOINT DETAILS						
STRUCTURE NO. 016-2572						
SHEET S-10 OF S-15 SHEETS						

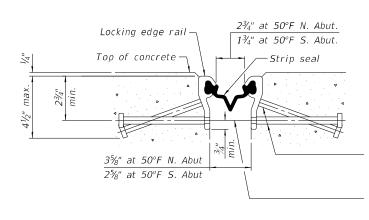
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
374	FAP 0374 22 BJ	соок	63	41		
		CONTRACT	NO. 6	2T24		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



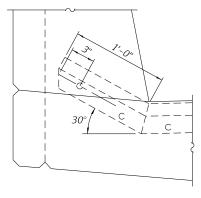
В · E Inside Face Top of locking Detail A edge rail of Parapet Top of deck %" Ø x 6" Studs ⋅ 6" cts.,

SECTION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



SHOWING ROLLED RAIL JOINT



DETAIL A

SECTION A-A * Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std.

Specs., automatically end welded.

3/8" Embedded plate full depth 6" 1/2" Parapet sliding plate 3%" Ø Countersunk bolts 1'-0" (10 per side 39" parapet) (12 per side 44" parapet) <u>Direction</u> of traffic SECTION B-B Concrete flush with back face of ¾" plate ¾" Plate

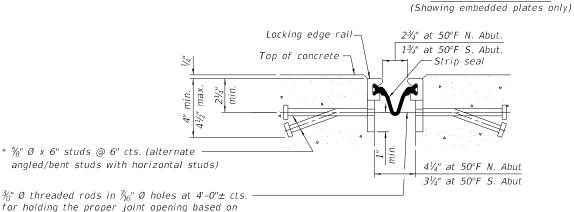
J----

0---0

2" Chamfei

1'-0"

Concrete flush with back/ face of ¾" plate



the temperature during the deck pour. Place to SHOWING WELDED RAIL JOINT miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

⁷/16" 3/8" <u>ROLLED</u> WELDED RAIL (EXTRUDED) RAIL

penetration is verified by mock-up.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal. 39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

* 3/4" Ø x 6" Studs

"冒¾" Embedded plate

full depth

3/4" Plate

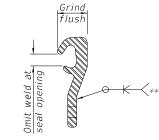
Q-------

TRIMETRIC VIEW

(8 per side 39" parapet) (10 per side 44" parapet)

LOCKING EDGE RAILS

** Back gouge not required if complete joint



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	350

EJ-SS

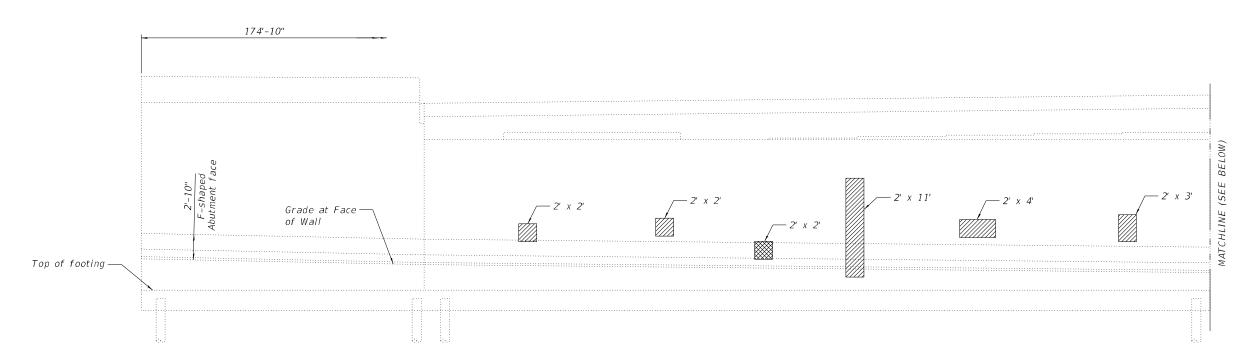
5-15-2023

	USER NAME = Elisa.Godinez	DESIGNED	-	EG	REVISED	-
		DRAWN	-	EG	REVISED	-
FF LC	PLOT SCALE = 2.0000 / in	CHECKED	-	LM	REVISED	-
LC	PLOT DATE = 3/22/2024	DATE	-	03/25/2024	REVISED	-

STATE	OF ILLINOIS
DEPARTMENT O	F TRANSPORTATION

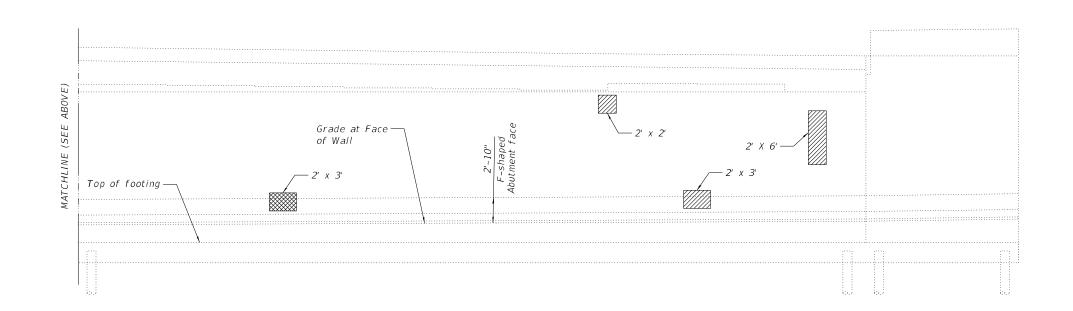
PREFORM Struc						
SHEET	S-11	OF	S-15	SHEET	S	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE.
374	FAP 0374 22 BJ	соок	63	42
		CONTRACT	NO. 6	2T24
FED R	OAD DIST NO 1 THEINDIS FED AT	ID PROJECT		



ELEVATION

(Looking North)



LEGEND

Structural Repair of Concrete <5"

₩ Structural Repair of Concrete >5"

NOTES:

Structural Repair of concrete on the abutment faces shall use the same architectural finish as shown on the existing plans. See sheet S-13.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete <5"	Sq Ft	66
Structural Repair of Concrete >5"	Sq Ft	10

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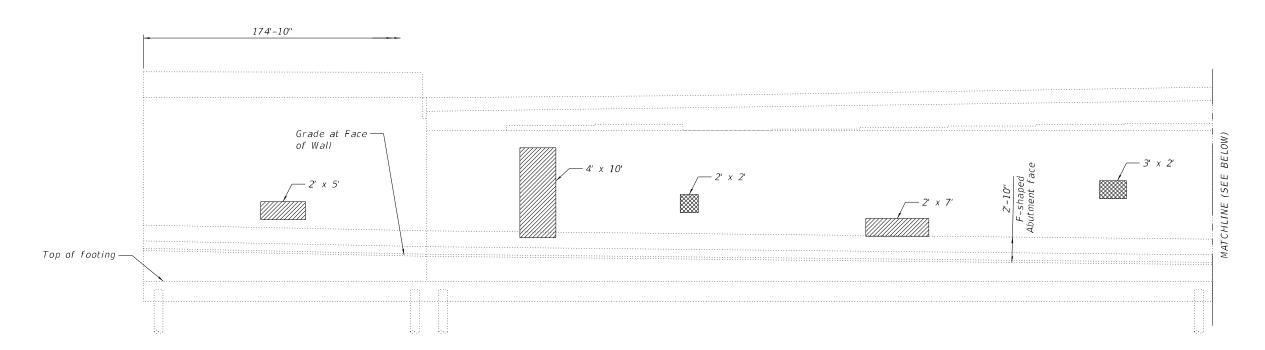
NAME = SCALE = NAMF =

JSER NAME = Elisa.Godinez	DESIGNED	-	EG	REVISED -	
	DRAWN	-	EG	REVISED -	
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LOT DATE = 3/22/2024	DATE	-	03/25/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

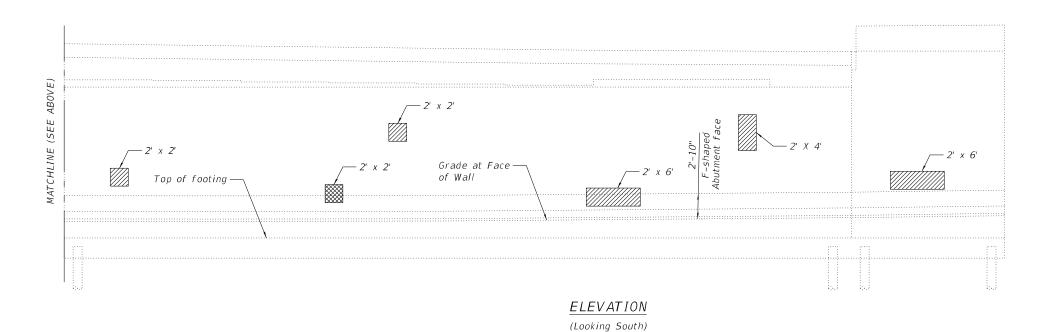
ELEVATION (Looking North)

NORT	TH A	ABU	ГΜ	ENT	REPAIRS	S
STR	UCT	URE	N	0. 01	6–2572	
SHE	CT	C_12	ΛE	C_15	CHEETS	



ELEVATION

(Looking South)



LEGEND

☑☑ Structural Repair of Concrete <5"</p>

Structural Repair of Concrete >5"

NOTES:

Structural Repair of concrete on the abutment faces shall use the same architectural finish as shown on the existing plans. See sheet S-13.

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete <5"	Sq Ft	104
Structural Repair of Concrete >5"	Sq Ft	14

GARZA KARHOFF ENGINEERING, LLC

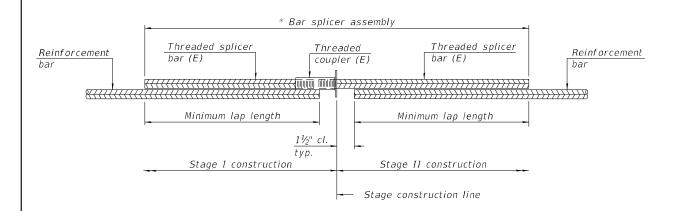
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	DRAWN	-	EG	REVISED	-
PLOT SCALE = 10.6667 / in.	CHECKED	-	LM	REVISED	-
PLOT DATE = 3/22/2024	DATE	-	03/25/2024	REVISED	-

STATE OF ILLINOIS						
DEPARTMENT	0F	TRANSPORTATION				

SOUTH ABUTMENT REPAIRS							
STRUC	TURE	: N	0. 01	6–2572			
SHEET	S-13	ΩF	S-15	SHEETS			

A.P TE.			SE	EC.	ΓΙΟΝ			COUNTY	TOTAL		SHEET NO.
74	FAP 0374 22 BJ					COOK	63	T	44		
								CONTRACT	NO.	62	2T24
FD.	ROAD	DIST.	NO.	1	THE INDIS	FFD.	AID	PROJECT			



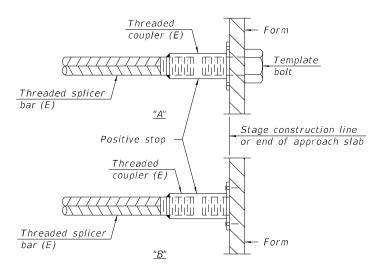
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

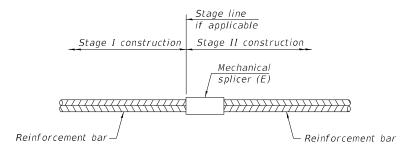
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum Iap length
North Exp. Jt.	#5	18	3'-1"
South Exp. Jt.	#5	18	3'-1"
North Exp. Jt.	#6	8	4'-5"
South Exp. Jt.	#6	8	4'-5"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

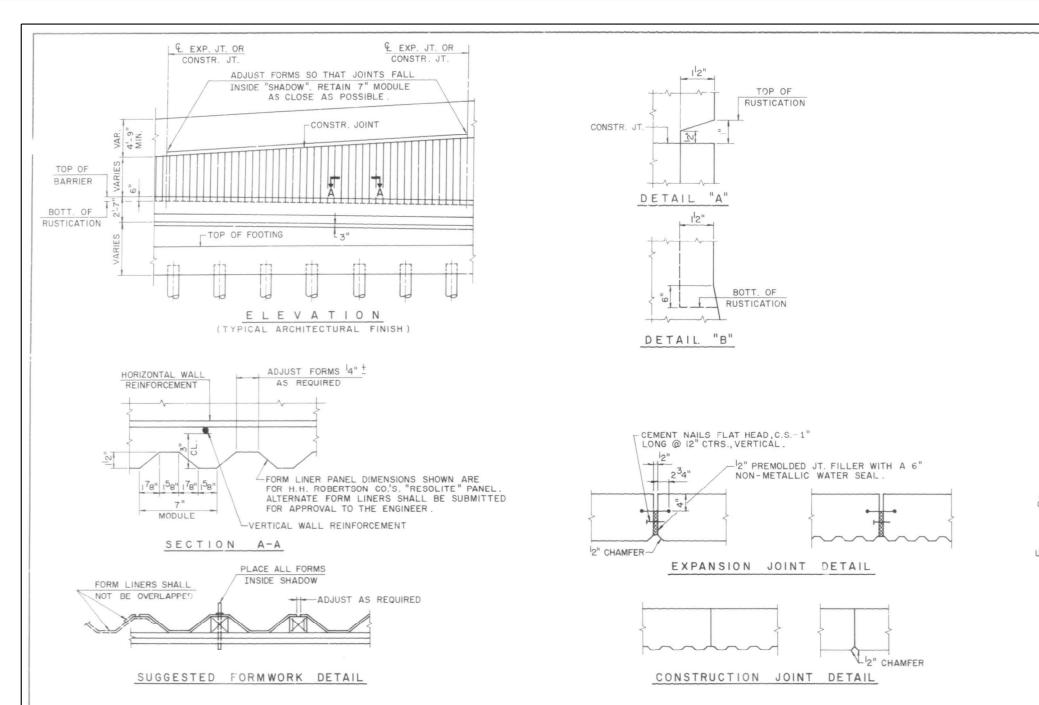
BSD-1

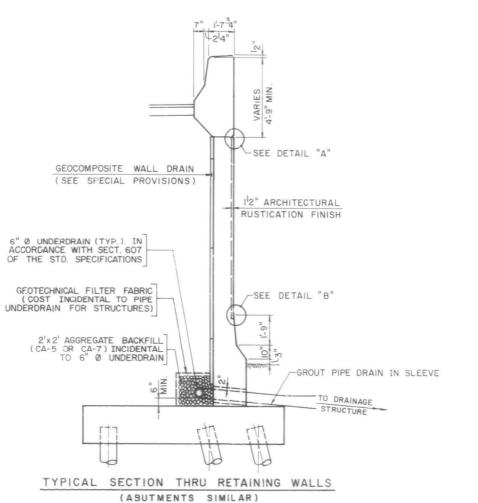
GARZA KARHOFF ENGINEERING, LLC

5-15-2023

USER NAME = Elisa.Godinez	DESIGNED	-	EG	REVISED	-
	DRAWN	-	EG	REVISED	-
PLOT SCALE = 2.0000 / in	CHECKED	-	LM	REVISED	-
PLOT DATE = 3/22/2024	DATE	-	03/25/2024	REVISED	-

F.A.P RTE.		SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.	
374	FA	P 03	74 22 B		COOK	63	45	
						CONTRACT	NO. 6	2T24
FED. R	OAD DIST.	NO. 1	ILLINOIS	FED.	AID	PROJECT		





NOTES:

NOTE 1: PRIOR TO THE PLACEMENT OF THE PIPE UNDERDRAIN SLEEVE, THE ENGINEER SHALL PETERMINE THE SLOPE REQUIRED FOR THE PIPE UNDERDRAIN.

NOTE 2: THE PIPE DRAIN SHALL TERMINATE AT A DRAINAGE STRUCTURE.

NOTE 3: THE COST OF THE SLEEVE AND GROUT SHALL BE INCIDENTAL TO THE PIPE DRAINS.

FOR INFORMATION ONLY

	[ILLIMOIS DEP	ARTMENT	0F	TRAN	SPORTATION
		Al	CATION BUTMENT	rs	AND	
REVISIO	NS		ON	1		
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		CHRISTIA		-	&	

RTE. SECTION COUNTY

3513 280-HB-K(83) COOK

D. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

163 81

SHEET

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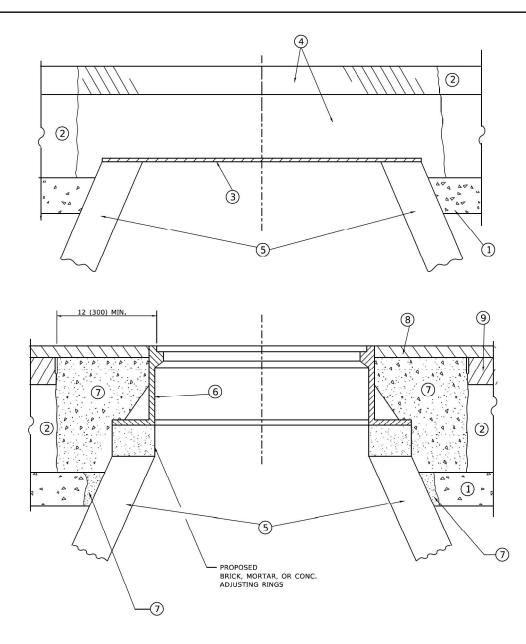
GARZA KARHOFF ENGINEERING, LLC

USER NAME = Elisa.Godinez	DESIGNED -	EG	REVISED -
	DRAWN -	EG	REVISED -
PLOT SCALE = 2.0000 / in	CHECKED -	LM	REVISED -
PLOT DATE = 3/22/2024	DATE -	03/25/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EX	EXISTING PLANS									
STRUC	STRUCTURE NO. 016-2572									
SHEET	S-15	ΩF	S-15	SHEETS						

ъР Е.	SECTION						COUNTY	SHEETS	SHEET NO.
4	FAP 0374 22 BJ						СООК	63	46
	·						CONTRACT	NO. 6	2T24
D. R	DAD DIST.	NO.	1	ILLINOIS	FED.	AID	PROJECT		



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

- 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.
- IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

Ardmore Poderick

SER NAME = rileywhite	DESIGNED	-	RW	REVISED	-
	DRAWN	-	RW	REVISED	-
LOT SCALE = 2 0000 / in	CHECKED	-	YK	REVISED	-
LOT DATE = 3/25/2024	DATE	-	03/25/2024	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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. 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

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

 (5) EXISTING STRUCTURE
- (9) PROPOSED HMA BINDER COURSE

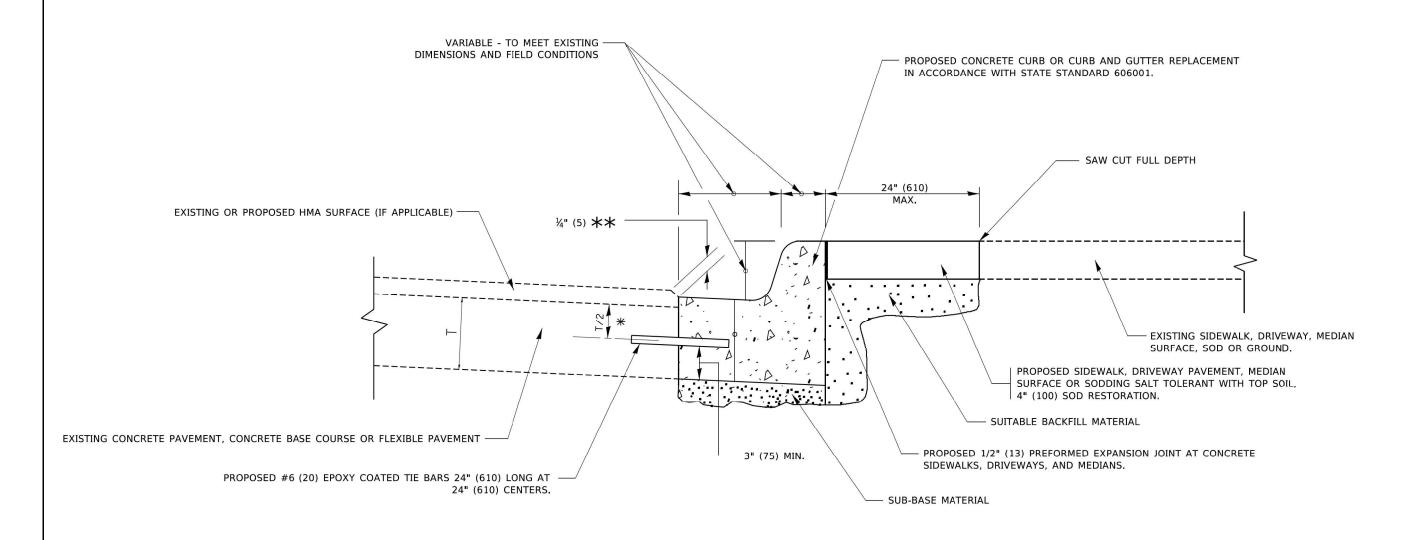
LOCATION OF STRUCTURES

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)."
- 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



- \divideontimes 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** 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

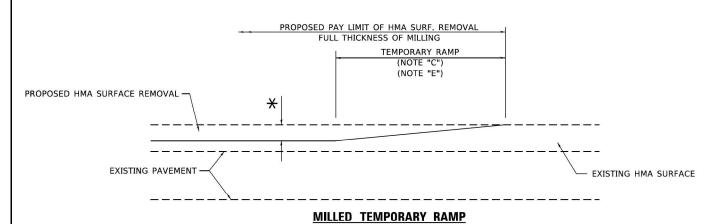
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



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PLOT DATE = 3/25/2024	DATE -	03/25/2024	REVISED -

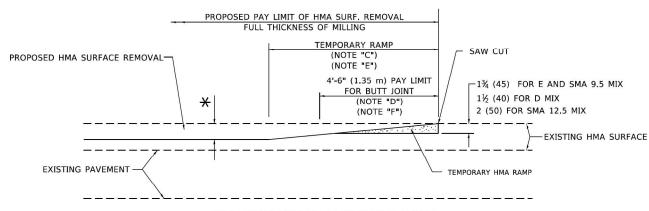
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER								
REMOVAL AND REPLACEMENT								
REIVIOVAL AIND REFL	ACCIVIE	V I			ВЕ			
ET NO. 2 OF 17SHEETS	STA	TO STA		EED	ROAD I			



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

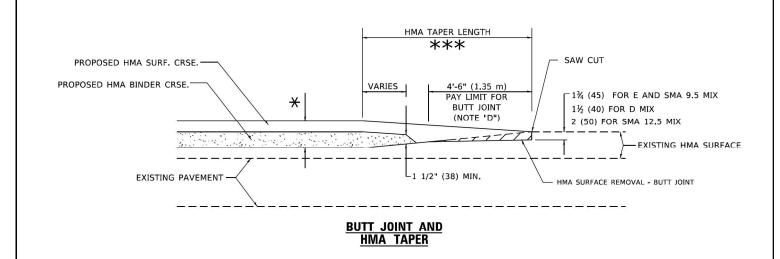


HMA CONSTRUCTED TEMPORARY RAMP

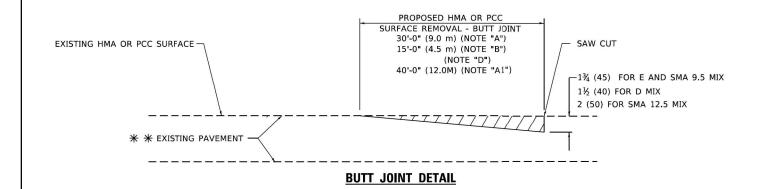
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

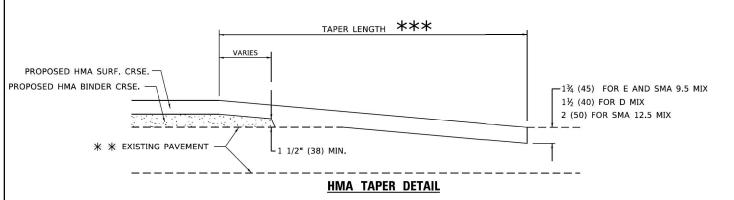
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





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.
 - $m{\star}$ 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.

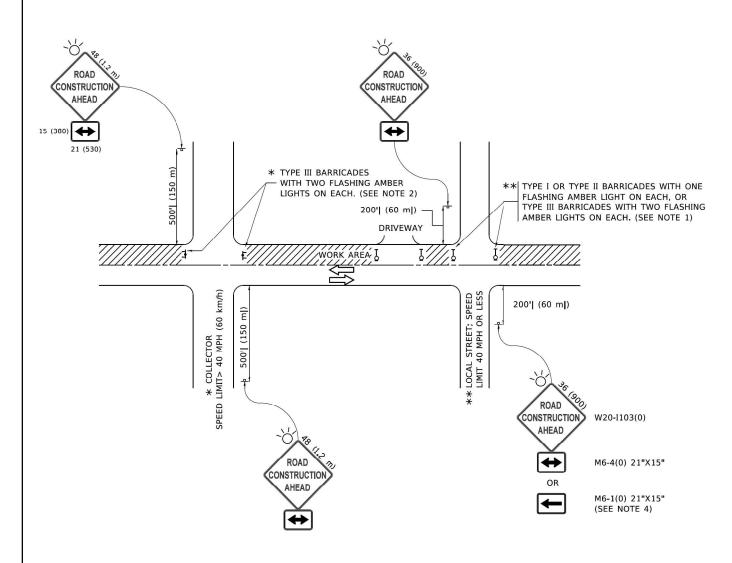
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



USER NAME = rileywhite	DESIGNED -	RW	REVISED -
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PLOT DATE = 3/25/2024	DATE -	03/25/2024	REVISED -

STATI	E OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

BUTT JOINT	F.A.P. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEE NO.		
HMA TAPER D	374	FAP 0374 22 BJ		COOK	63	49			
HIVIA TAPEN L	LIAILS			BD400-05 (BD-32) CONTRACT NO. 62					52T24
SHEET NO. 3 OF 17SHEETS	STA.	TO STA.	FED. F	ROAD DIST, NO. 1	ILLINOIS	FED. A	ID PROJECT		



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)
- 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.

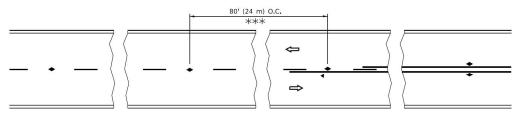
All dimensions are in inches (millimeters) unless otherwise shown.



USER NAME = rileywhite	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 2.0000 / in	CHECKED - YK	REVISED -
PLOT DATE = 3/25/2024	DATE - 03/25/2024	REVISED -

T	TRAFFIC CONTROL AND PROTECTION FOR								
ID	DE ROADS, INTERSECTIONS, AND DRIVEWAYS								
	SHEET NO	4 OF	17SHEETS	STA	TO STA				

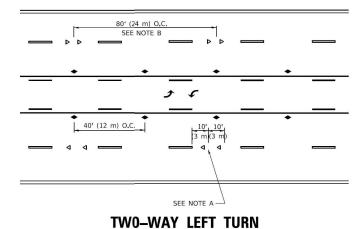
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374		F.	AP ()37	4 22 BJ		COOK	63	50
TC-10						CONTRAC	F NO. 6	2T24	
FED. P	ROAD	DIST.	NO.	1	ILLINOIS	FED. A	D PROJECT		



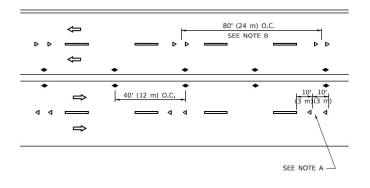
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

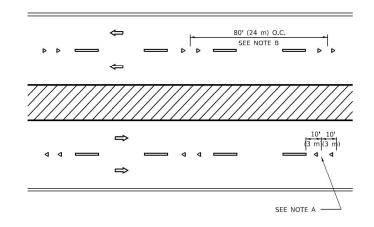
3 @ 40' (12 m) O.C. LANE REDUCTION TRANSITION

SEE FIGURE 3B-14 MUTCD



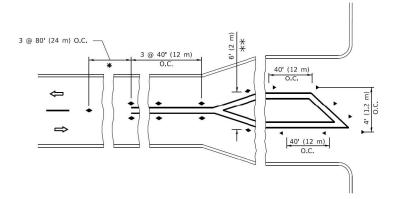
TW0-LANE/TW0-WAY

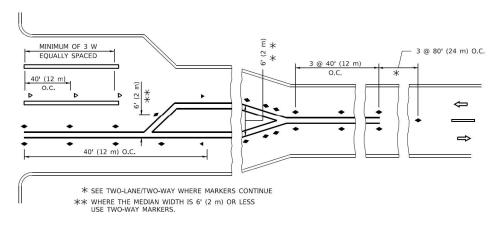




MULTI-LANE/UNDIVIDED







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

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

Ardmore Poderick

DESIGNED - RW REVISED -DRAWN - RW REVISED -CHECKED - YK REVISED -PLOT DATE = 3/25/2024 REVISED -- 03/25/2024

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHEET NO. 5 OF 17SHEETS STA.

SECTION FAP 0374 22 BJ COOK 63 51 TC-11 CONTRACT NO. 62T24

SYMBOLS

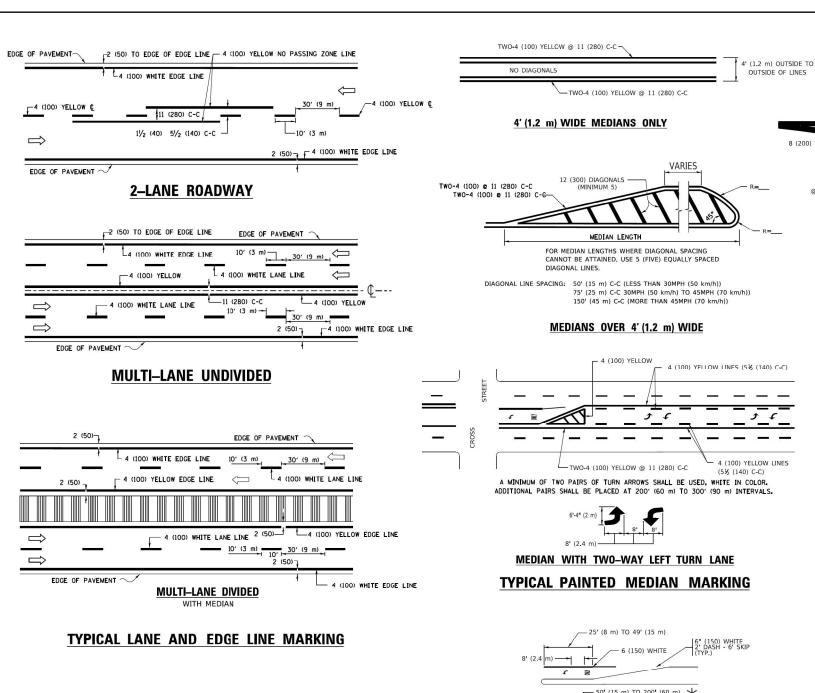
ONE-WAY AMBER MARKER

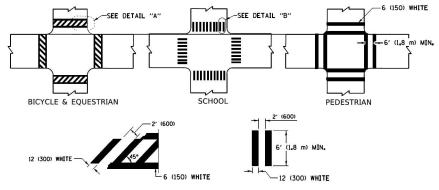
TWO-WAY AMBER MARKER

ONE-WAY CRYSTAL MARKER (W/O)

— YELLOW STRIPE

WHITE STRIPE



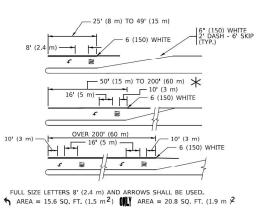


DETAIL "B"

DETAIL "A"

TYPICAL CROSSWALK MARKING

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



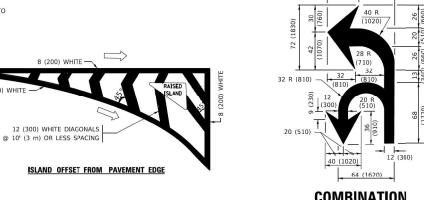
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

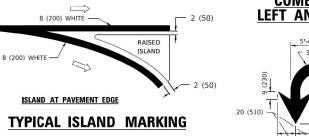
TYPICAL LEFT (OR RIGHT) TURN LANE

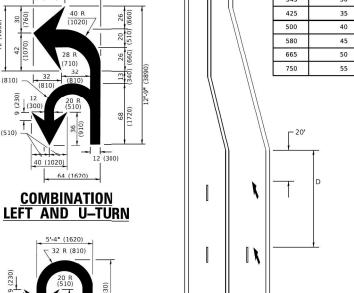
TYPICAL TURN LANE MARKING

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION DISTRICT ONE FAP 0374 22 BJ COOK 63 52 TYPICAL PAVEMENT MARKINGS TC-13 CONTRACT NO. 62T24 SHEET NO. 6 OF 17SHEETS STA.







LANE REDUCTION TRANSITION

SPEED LIMIT

D(FT)

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

<u>o-roniv</u>									
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					
FDGF LINES	4 (100)	SOLID	YFI I OW-I FFT 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 5'E 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 PEACH "X"=54.0 SQ. FT. (5.0 m PEACH					
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					
				1					

U-TURN

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

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



DESIGNED - RW REVISED -DRAWN - RW REVISED -CHECKED - YK REVISED -PLOT DATE = 3/25/2024 - 03/25/2024 REVISED -

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

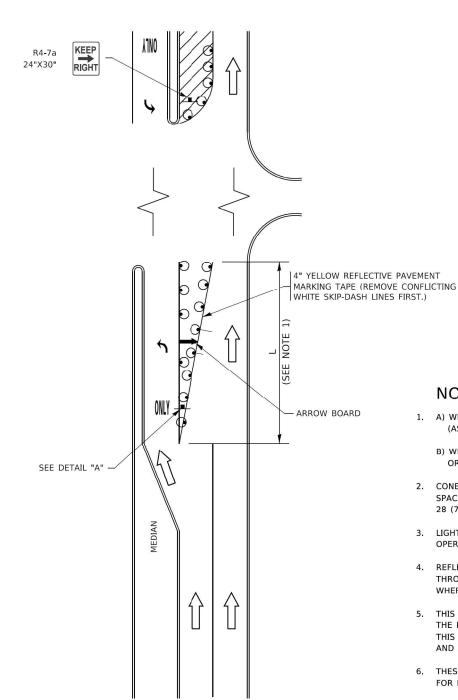


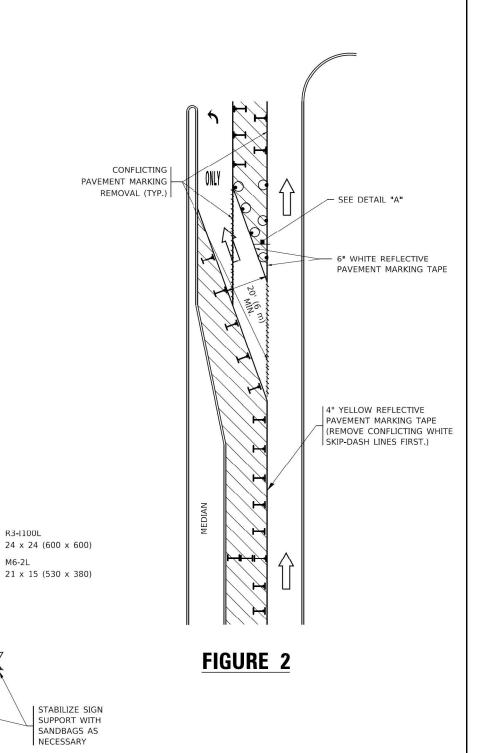
FIGURE 1

LEGEND WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

- 1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE
 OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 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.
- 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.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 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

TURN

LANE

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

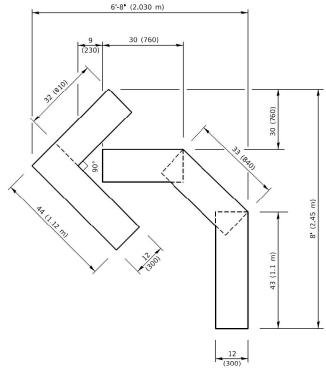
COOK

63 53

CONTRACT NO. 62T24

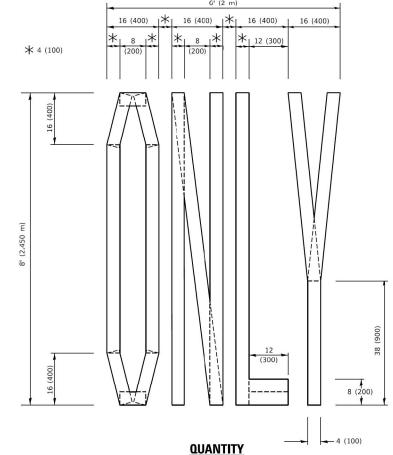
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PLOT SCALE = 2.0000 / in	CHECKED -	YK	REVISED -
PLOT DATE = 3/25/2024	DATE -	03/25/2024	REVISED -

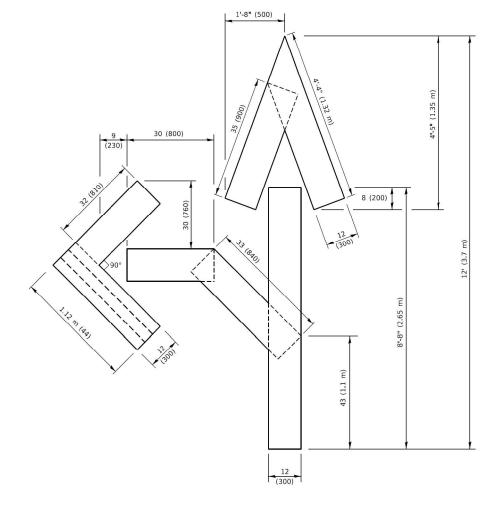


QUANTITY

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)

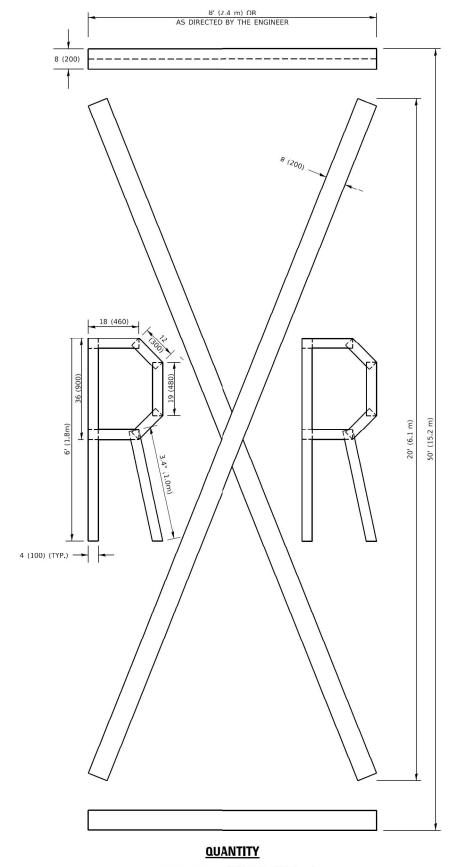


QUANTITY

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)

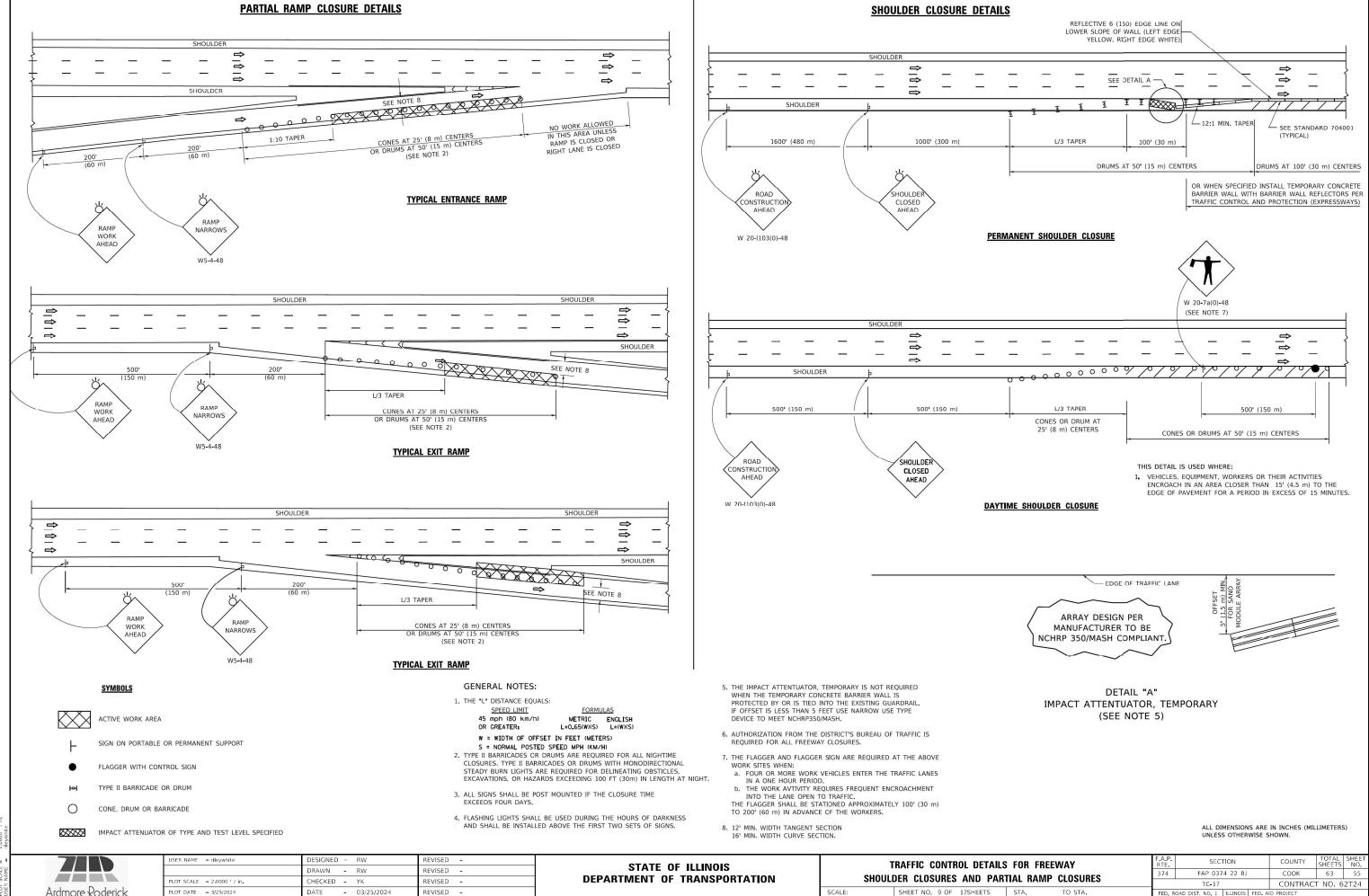
All dimensions are in inches (millimeters) unless otherwise shown.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

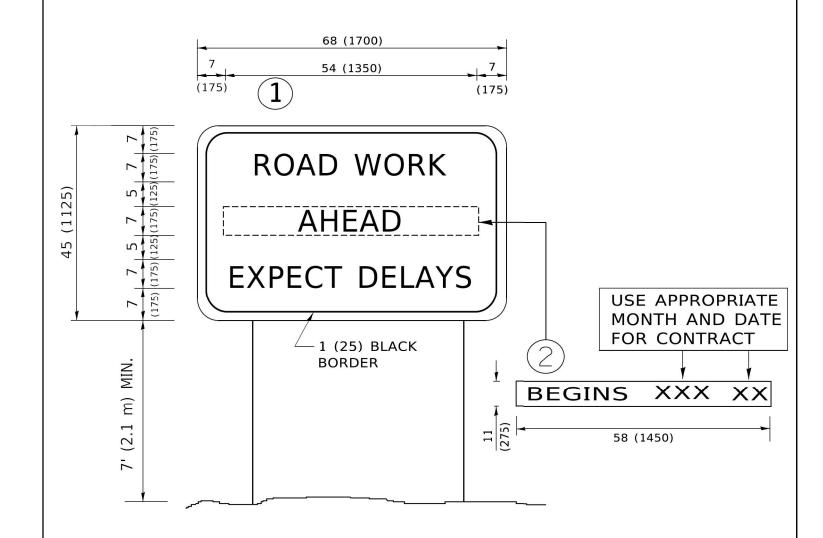
SHORT TE	RM PAVEMENT MAR	RKING LETTERS	AND SYMBOLS	F.A.P. RTE	SEC	TION		COUNTY	T 5
				374	FAP 037	4 22 BJ		COOK	Г
	1				TC-16			CONTRAC	Г
SCALE:	SHEET NO. 8 OF 17SHEE	TS STA.	TO STA.	FED. R	OAD DIST, NO. 1	ILLINOIS	FED. A	D PROJECT	



PLOT DATE = 3/25/2024

REVISED -

- 03/25/2024



NOTES:

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

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



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ARTERIAL ROA		F.A.P. RTE	F.A.P. SECTION				
INFORMATION	374 FAP 0374 22 BJ						
INFUNIVIATION	SIGN			TC-22			
SHEET NO. 10 OF 17SHEETS	STA.	TO STA.	FED. P	ROAD DIST, NO. 1	ILLINOIS	FED. A	ID PF

RTE.	SEC ⁻	LION		COUNTY	SHEETS	NO.
374	FAP 037	4 22 BJ		COOK	63	56
	TC-22		CONTRACT	F NO. 6	2T24	
FED. R	OAD DIST, NO. 1	ILLINOIS	FED. A	D PROJECT		

TRAFFIC SIGNAL LEGEND (NOT TO SCALE)

<u>ITEM</u>	EXISTING	<u>PROPOSED</u>	ITEM	<u>EXISTING</u>	PROPOSED	ITEM	<u>EXISTING</u>	PROPOSED
CONTROLLER CABINET	$\overline{\boxtimes}$	—	HANDHOLE			SIGNAL HEAD	R R	R R
COMMUNICATION CABINET	ECC		-SQUARE -ROUND			-(P) PROGRAMMABLE SIGNAL HEAD	Y Y	Y Y G
MASTER CONTROLLER	EMC	MC	HEAVY DUTY HANDHOLE -SQUARE	H (H)	H (4)			4 Y 4 G 4 G
MASTER MASTER CONTROLLER	Еммс	ммд	-ROUND DOUBLE HANDHOLE				Р	Р
UNINTERRUPTABLE POWER SUPPLY	<u> </u>	<u> </u>	JUNCTION BOX		•	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD	R Y Y	R R Y
SERVICE INSTALLATION	-D- ^P	<u> </u>	RAILROAD CANTILEVER MAST ARM	X 0X	X ex X	-(RB) RETROREFLECTIVE BACKPLATE		C C C ♠Y ♠Y
-(P) POLE MOUNTED	11	- - -	RAILROAD FLASHING SIGNAL	∑o ∑	X•X		P BB	P RB
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G}\boxtimes^{GM}$	⊠ ^G ⊠ ^{GM}	RAILROAD CROSSING GATE	₹0 ₹>	X•X-	PEDESTRIAN SIGNAL HEAD	(P)	•
TELEPHONE CONNECTION	ET	Т	RAILROAD CROSSBUCK	ĭ	*	AT RAILROAD INTERSECTIONS		*
STEEL MAST ARM ASSEMBLY AND POLE	O	•——	RAILROAD CONTROLLER CABINET		▶∢	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	© C C D	♥ C ★ D
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o-¤—	•*	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.	(5)	
-(BM) BARREL MOUNTED - TEMPORARY			INTERSECTION ITEM	Ĭ	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED	<i>/</i> C	
WOOD POLE	⊗	€ .	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	
GUY WIRE SIGNAL HEAD	<i>></i>	>- - ►	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
SIGNAL HEAD WITH BACKPLATE	#>	#►	ABANDON ITEM CONTROLLER CABINET AND		Α	NO. 14 1/C	- 2	
SIGNAL HEAD OPTICALLY PROGRAMMED	> ^P +-> ^P	→ P + → P	FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	— <u>C</u>	
FLASHER INSTALLATION	o-⊳ F o-⊳ FS	•► FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		
-(FS) SOLAR POWERED	в⊳ ^F въ⊳ ^{FS}	■→ ^F ■→ ^{FS}	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	(6#18)
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP	PP	PP	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
RADAR DETECTION SENSOR	R 1	R	SAMPLING (SYSTEM) DETECTOR	SS	s s			—(36F)—
VIDEO DETECTION CAMERA	[V]	(♥) •	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS (IS)	IS (IS)			
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	os os	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	±C ±M ±P ±S	† † † † *
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ	WIRELESS DETECTOR SENSOR	<u> </u>	©	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\bowtie	~	WIRELESS ACCESS POINT					
CONFIMATION BEACON	○ —(]	•4						
WIRELESS INTERCONNECT	○+ 	• -+1 						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						



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STATI	E O I	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

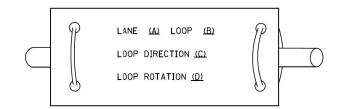
SCALE:

	DISTRICT ONE		F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
STANDARD TRAFFIC SIGNAL DES		DEGICN DETAIL	c	374	FAP 037	4 22 BJ		COOK	63	57
STANDAL	ID INAFFIC SIGNAL	DESIGN DETAIL	.ა		TS-05			CONTRAC	T NO. 6	2T24
SHEET	NO. 110F 17SHEETS	STA. TO S	TA.	FED. RO	OAD DIST, NO. 1	ILLINOIS	FED. AI	D PROJECT		

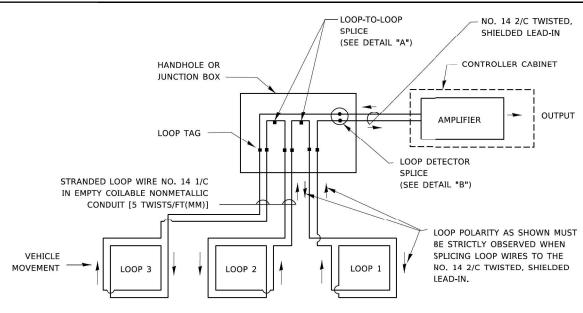
LOOP DETECTOR NOTES

- 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

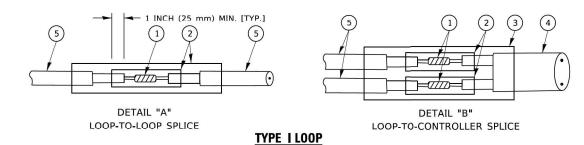


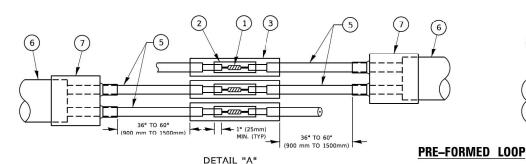
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



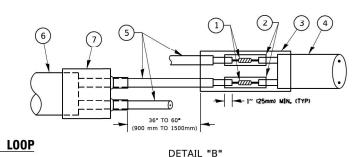
DETECTOR LOOP WIRING SCHEMATIC

- 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-TO-LOOP SPLICE



LOOP-TO-CONTROLLER SPLICE

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.

SCALE:

(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



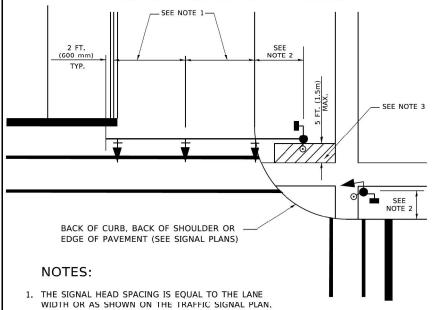
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DISTRICT OF	IE	F.A.P. RTE	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEE NO.
STANDARD TRAFFIC SIGNAL	DECICN DETAILS	374	FAP 037	'4 22 BJ		COOK	63	58
STANDARD TRAFFIC SIGNAL	DESIGN DETAILS		TS-05			CONTRAC	T NO. 6	52T24
SHEET NO. 120F 17SHEETS	STA. TO STA.	FED. R	OAD DIST, NO. 1	ILLINOIS	FED. A	D PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

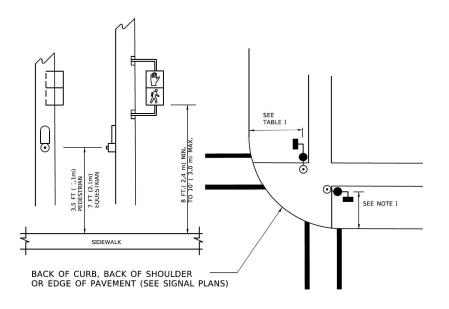
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



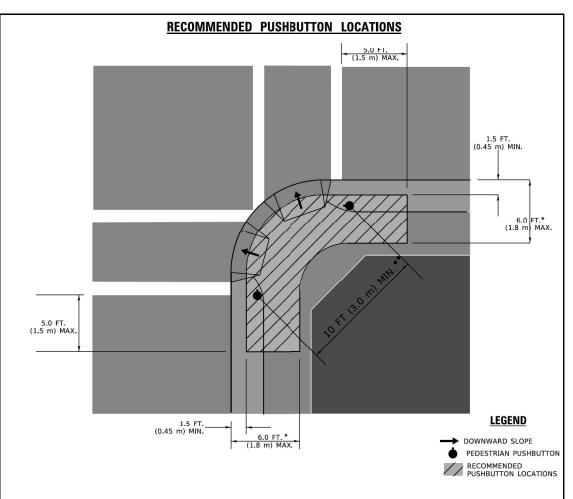
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO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

PEDESTRIAN SIGNAL POST 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 BUILDINGS AND FACILITIES."



* 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.

> SECTION FAP 0374 22 BJ

> > TS-05

COOK

63 59

CONTRACT NO. 62T24

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:

- 1. 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.
- 2. 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.
- 5. 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

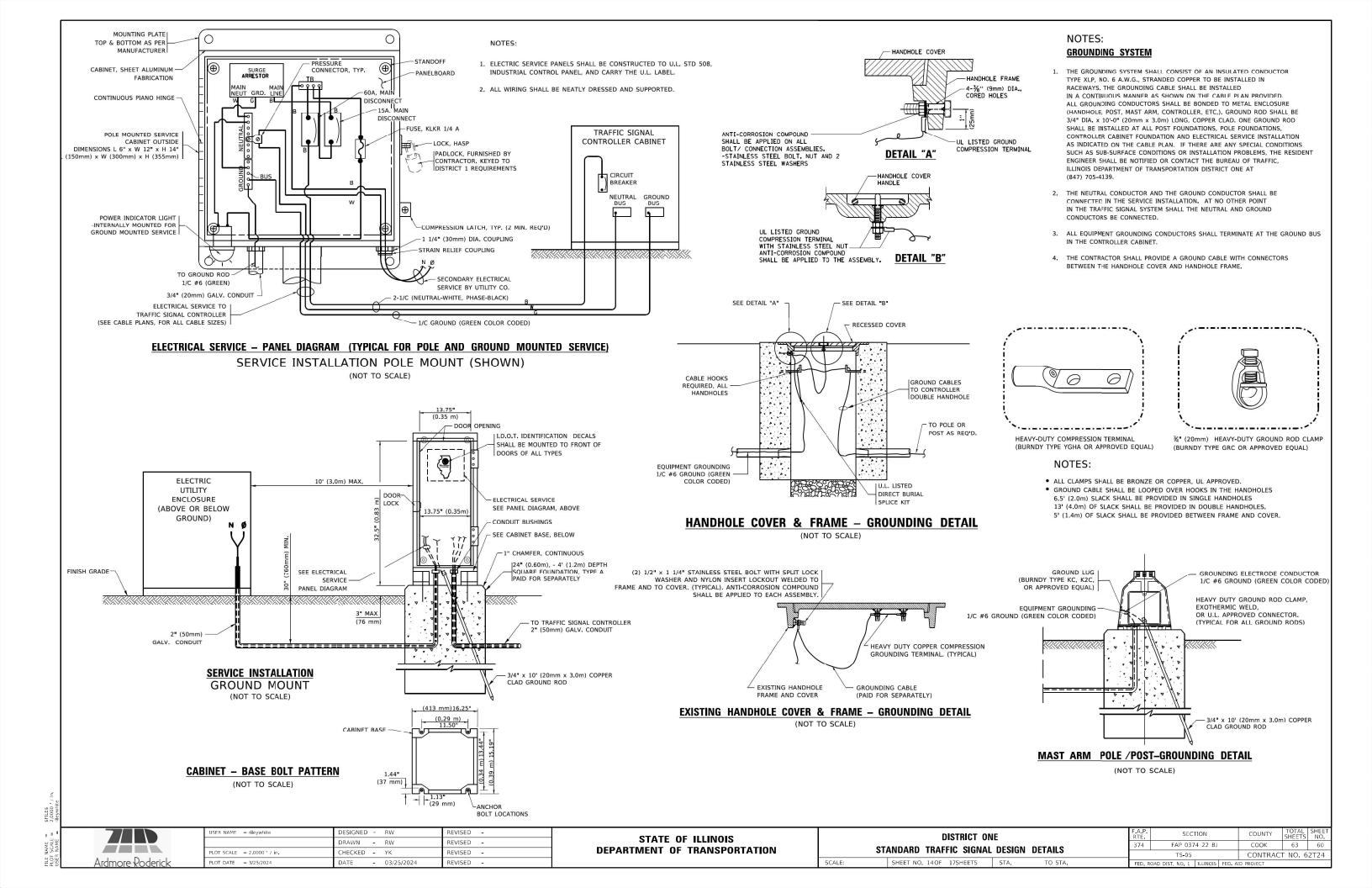
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

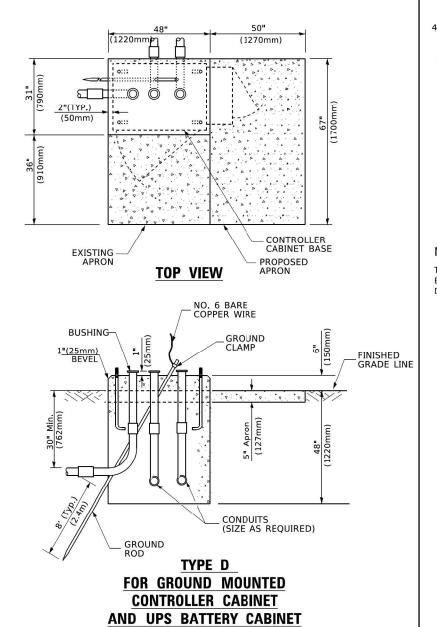
NOTES:

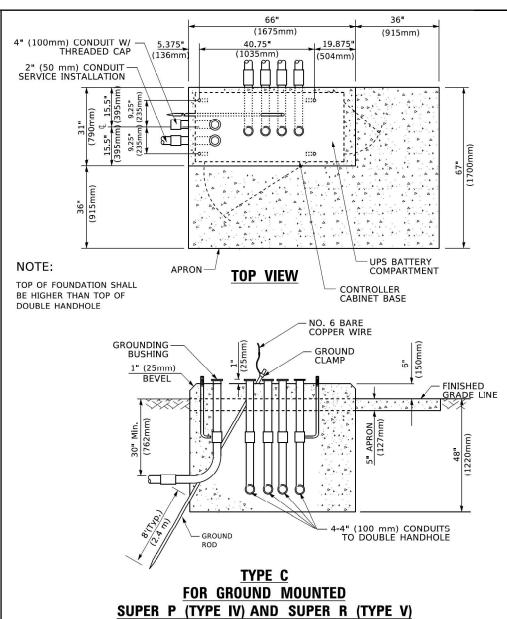
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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



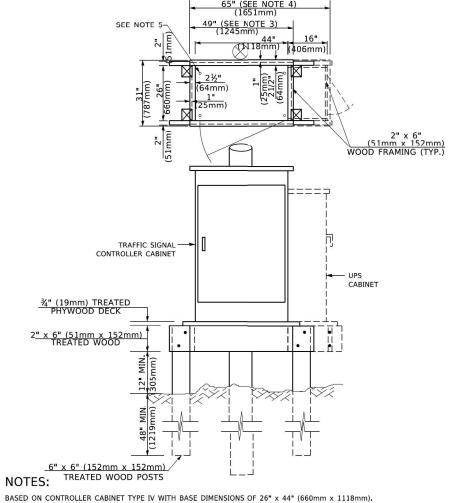
USER NAME = rileywhite	DRAWN - RW	REVISED -	STATE OF ILLINOIS	DISTRICT ONE					
PLOT SCALE = 2.0000 / in.	CHECKED - YK	REVISED - DEPARTMENT OF TRANSPORTATION		ST	ANDARD TRAFFIC SIGNAL	. DESIGN	DETAILS		
PLOT DATE = 3/25/2024	DATE - 03/25/2024	REVISED -		SCALE:	SHEET NO. 130F 17SHEETS	STA.	TO STA.		







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
- 2. 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	ABLE LENGTH

CABLE SLACK

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2111)
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 (Qu) > 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 most arm assemblies under 56 feet (15.8 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...

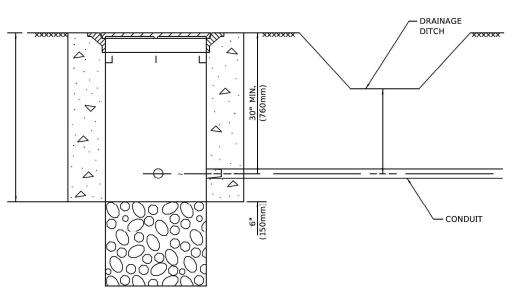
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



DRAWN - RW REVISED -	
PLOT SCALE = 2.0000 ' / in. CHECKED - YK REVISED -	
PLOT DATE = 3/25/2024 DATE - 03/25/2024 REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

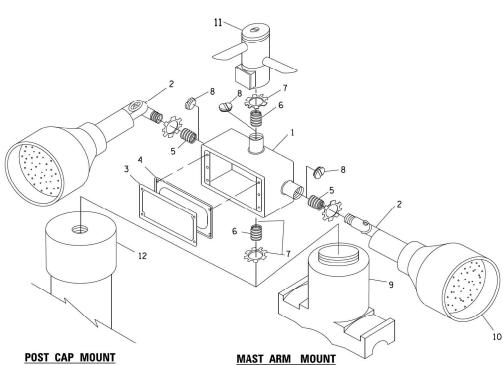
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		SECT	ΠΟΝ	COUNTY	TOTAL
		FAP 037	4 22 BJ	COOK	63
		TS-05		CONTRACT NO. (
SHEET NO. 15OF 17SHEETS STA. TO STA.	FED. RO	AD DIST, NO. 1	ILLINOIS FED.	AID PROJECT	

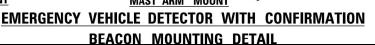


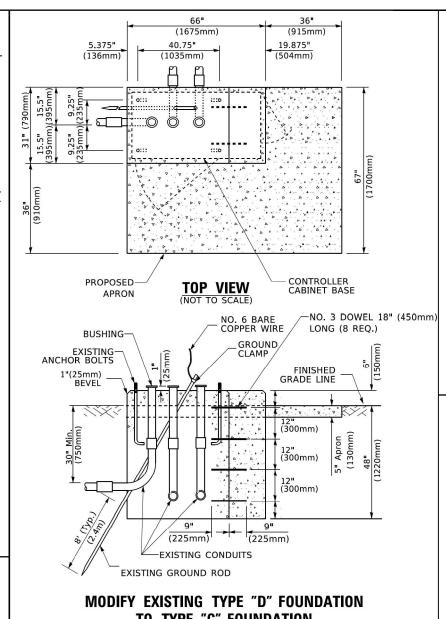
NOTES:

- 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 (NOT TO SCALE)

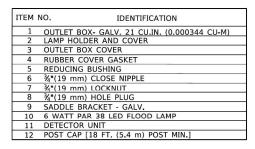






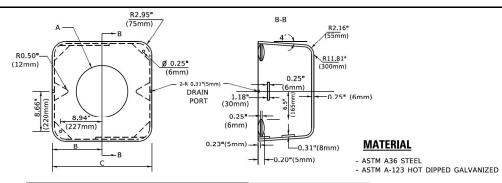
TO TYPE "C" FOUNDATION

(NOT TO SCALE)



NOTES:

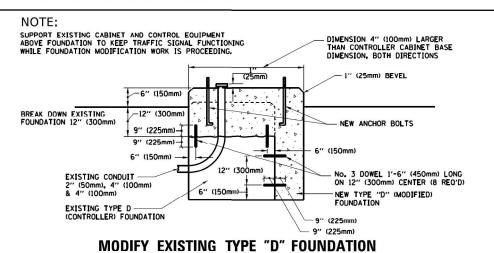
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION 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.

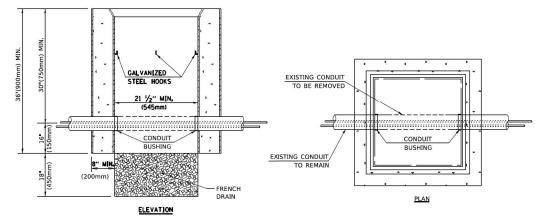


Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

- 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.





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.

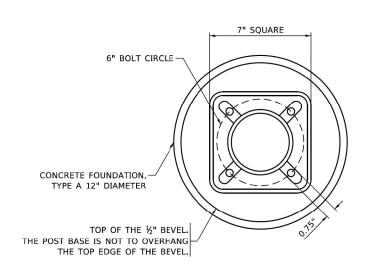
HANDHOLE TO INTERCEPT EXISTING CONDUIT

7110
Ardmore Poderick

REVISED -DRAWN - RW REVISED -REVISED -REVISED -

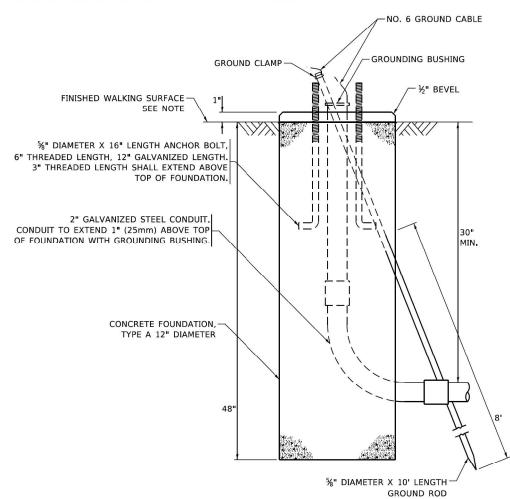
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE FAP 0374 22 BJ COOK 63 62 STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-05 CONTRACT NO. 62T24 SHEET NO. 16 OF 17 SHEETS STA.



BOLT PATTERN

1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER

ALUMINUM OR GALVANIZED STEEL POST CAP SIGN (SEE SIGN TABLE) -**PUSH-BUTTON** STATION PEDESTRIAN PUSH-BUTTON-ALUMINUM OR GALVANIZED STEEL POST, 4.5" OUTSIDE DIAMETER ALUMINUM OR CAST IRON GALVANIZED BASE CENTERED ON FOUNDATION 36" DRILLED AND TAPPED-GROUNDING HOLE FINISHED WALKING SURFACE-

PEDESTRIAN SIGNAL HEAD

COUNTDOWN PEDESTRIAN SIGNAL HEADS ARE NOT TO BE USED AT RAILROAD INTERSECTIONS

SIGN TABLE

DON'T CROSS

PUSH BUTTON

TO CROSS

R10-3d

SIGN	DIMENSION
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

DON'T CROSS

PUSH BUTTON

R10-3b

- 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING. 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.

DON'T START
Finish Crossing
If Started
TIME REMAINING
TO Finish Crossing

DON'T CROSS

PUSH BUTTON

TO CROSS

R10-3e

3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

Ardmore Poderick

DESIGNED - RW DRAWN - RW REVISED -REVISED -REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PEDESTRIAN SIGNAL POST, 10 FT.

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

PEDESTRIAN SIGNAL POST, 5 FT.

SECTION FAP 0374 22 BJ COOK 63 63 CONTRACT NO. 62T24 TS-05 SHEET NO. 17 OF 17SHEETS STA.