FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

09-22-2023 LETTING ITEM 069

TRAFFIC DATA

MILWAUKEE AVENUE (IL 21) POSTED SPEED LIMIT: 45 MPH 2022 ADT = 30,000

ZENITH DRIVE POSTED SPEED LIMIT: 20 MPH 2022 ADT = 1,400

CASTILIAN COURT POSTED SPEED LIMIT: 20 MPH 2022 ADT = 700

FUNCTIONAL CLASSIFICATION

MILWAUKEE AVENUE (1121): OTHER PRINCIPAL ARTERIAL

ZENITH ORIVE: LOCAL ROAD

CASTILIAN COURT: LOCAL ROAD

BEGIN MILWAUKEE AVENUE (IL21) IMPROVEMENT STA 96 + 95

IMPROVEMENT

STA 8+50

(IL21) IMPROVEMENT

S TA 103 +2 1

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.D.L.I.E. DESIGN STAGE REDLEST

DIG. No. X3011202

CONTACT JULIE AT 811 OR 800-892-0123

CITY-TWASHE. - VILLAGE OF GLENVIEW - TOWNSHIP 42 N SEC. 8 1/4 SEC. NO. = SECTION 32 48 HOURS 12 working coys) BEFORE YOU DIG

PROJECT ENGINEER: GORDON FOLEY PROJECT MANAGER: JONATHAN TRENT, PE CONTRACT NO. 61J39

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP ROUTE 0374 (MILWAUKEE AVENUE - IL21) AT ZENITH DRIVE / CASTILIAN COURT TRAFFIC SIGNAL MODERNIZATION AND ADA RAMP INSTALLATION

SECTION: 21-00203-00-TL

PROJECT: B939(349) VILLAGE OF GLENVIEW

COOK COUNTY

C-91-061-23 BEGIN ZENITH DRIVE STA 20+58 END MILWAUKEE AVENUE CENTRAL RD

LOCATION MAP

GROSS LENGTH = 750 FT. = 0.14 MILE NET LENGTH = 750 FT. = 0.14 MILE



SECTION COGK



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED

2-13-2023 Stowelite

VILLAGE OF GLENVIEW ENGINEERING DIVISION MANAGER

PASSED

END CASTILIAN COURT

IMPROVEMENT

2 21 2023

DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED

FUSKUARY ZI, 2023 REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

B&W PROJECT NO .: 212221

DATE: 02-08-2023

ALIGNMENT, TIES AND BENCHMARKS 11-12

13 - 14 TYPICAL SECTIONS

15 REMOVAL PLAN 16

ROADWAY PLAN 17 DRAINAGE AND UTILITY PLAN

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TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14) 42

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HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 000001-08

TEMPORARY EROSION CONTROL SYSTEMS 280001-07 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS

DEPRESSED CORNER FOR SIDEWALKS 424021-06

442201-03 CLASS C AND D PATCHES

602001-02 CATCH BASIN TYPE A

602301-04 INLET - TYPE A

602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP

604001-05 FRAME AND LIDS TYPE 1

FRAME AND GRATE TYPE 24 604091-05

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER 606001-08

OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY 701001-02

701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY

OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE 701101-05

OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY 701106-02

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701301-04

LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY 701311-03

701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601-09

URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 701606-10

701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE

TRAFFIC CONTROL DEVICES 701901-08

720001-01 SIGN PANEL MOUNTING DETAILS

SIGN PANEL ERECTION DETAILS 720006-04 728001-01 TELESCOPING STEEL SIGN SUPPORT

814001-03 HANDHOLES

814006-03 DOUBLE HANDHOLES

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)

TRAFFIC SIGNAL GROUNDING & BONDING 873001-02

876001-04 PEDESTRIAN PUSH BUTTON POST STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' 877001-08

STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS 877006-06

CONCRETE FOUNDATION DETAILS 878001-11

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

TRAFFIC SIGNAL MOUNTING DETAILS 880006-01

886001-01 DETECTOR LOOP INSTALLATIONS

DISTRICT ONE DETAILS

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14) ARTERIAL ROAD INFORMATION SIGN (TC-22)

DISTRICT ONE - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

COMMITMENTS

THERE ARE NO COMMITTMENTS ON THIS PROJECT

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, THE JANUARY 1, 2022 EDITION OF THE "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE JANUARY 1, 2023 EDITION OF THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE NOVEMBER 2021 REVISION OF THE "ILLINOIS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". THE DECEMBER 1, 2022 EDITION OF THE "MANUAL OF TEST PROCEDURES FOR MATERIALS", AND THE 8TH EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS REPRESENTS ONLY THE OPINION OF THE VILLAGE AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER AND THE ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.
- THE CONTRACTOR SHALL SUBMIT PARTIAL WAIVERS OF LIEN FROM ALL SUBCONTRACTORS AND SUPPLIERS WITH EACH PARTIAL PAYMENT ESTIMATE AND CONTRACTOR'S AFFIDAVIT FOR SUBCONTRACTORS AND SUPPLIERS WITH SECOND PAYMENT REQUEST FOR THE PREVIOUS PAYMENT ESTIMATES AND THEN WITH ALL SUBSEQUENT PAYMENT ESTIMATES.
- THE ENGINEER WILL FURNISH A RESIDENT ENGINEER (RE) TO ASSIST THE ENGINEER IN PROVIDING JOB-SITE OBSERVATION OF THE CONTRACTOR'S WORK. THE RE WILL PROVIDE BASE LINES, BENCHMARKS AND REFERENCE POINTS, ASSIST THE CONTRACTOR WITH INTERPRETATION OF THE PLANS AND SPECIFICATIONS, OBSERVE IN GENERAL IF THE CONTRACTOR'S WORK IS IN CONFORMITY WITH THE CONTRACT DOCUMENTS, AND MONITOR THE CONTRACTOR'S PROGRESS AS RELATED TO THE DATE OF COMPLETION. THE LIMITATIONS ON AUTHORITY AND RESPONSIBILITY OF THE ENGINEER SHALL ALSO APPLY TO THE ENGINEER'S CONSULTANTS, RESIDENT ENGINEER AND ASSISTANTS.
- THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE VILLAGE WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.
- 8. ALL FRAME AND LID CASTINGS LOCATED WITHIN THE PAVEMENT WHICH REQUIRE RESETTING TO FINISH GRADE SHALL BE BACKFILLED WITH CLASS SI CONCRETE MEETING SECT. 1020 OF THE STANDARD SPECIFICATIONS. CLASS PP CONCRETE SHALL BE USED IF PLACEMENT OF SURFACE COURSE IS PLANNED IN LESS THAN 72 HOURS. HMA MATERIALS WILL NOT BE ALLOWED AS BACKFILL AROUND AN ADJUSTED CASTING. THIS WORK SHALL APPLY TO ALL CASTINGS ADJUSTED OR RECONSTRUCTED AS PART OF THIS CONTRACT,
- THE TOP OF ALL NEW CURB BOXES ON DRAINAGE STRUCTURES SHALL BE STAMPED "DUMP NO WASTE - DRAINS TO RIVER"
- 10. THE CONTRACTOR WILL BE REQUIRED TO USE A STEEL PLATE OR PLATES TO CLOSE ANY GAPS OCCURRING WHEN A FRAME IS OFFSET FROM THE STRUCTURE. THE STEEL PLATE SHALL BE INCH THICK AND APPROXIMATELY 6-INCH WIDE BY 24-INCH LONG. SOME ADJUSTMENT IN SIZE MAY BE NECESSARY TO PREVENT THE STEEL PLATE FROM OVERHANGING THE OUTSIDE OF THE STRUCTURE WALL. THE STEEL PLATE SHALL BE BEDDED IN AND COVERED WITH MORTAR.
- 11. NO OPEN TRENCH OR PIT SHALL REMAIN UNPROTECTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BACKFILL THE TRENCH AND/OR PIT OR ERECT A STABLE AND SECURE SIX (6) FOOT HIGH CHAIN LINK FENCE AROUND THE PERIMETER OF EXCAVATION ALONG WITH A STEEL PLATE OVER THE EXCAVATION TO PREVENT ANY ACCESS TO THE EXCAVATION WITHOUT THE CONTRACTOR'S PERMISSION. ALL EXCESS EXCAVATED MATERIAL AND DELIVERED MATERIAL FROM THE INSTALLATION OF UTILITIES AND/OR ROAD SHALL BE REMOVED AND DISPOSED OF OFF-SITE THE SAME DAY. CONTRACTOR IS NOT ALLOWED TO STOCKPILE MORE THAN 5 CUBIC YARDS OF MATERIAL OVERNIGHT. IF ANY MATERIAL STOCKPILES WILL REMAIN OVERNIGHT HIGHER THAN TWO (2) FEET, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ERECT A STABLE AND SECURE SIX (6) FOOT HIGH CHAIN LINK FENCE AROUND THE PERIMETER OF THE STOCKPILED MATERIAL. THESE FENCES SHALL BE INSTALLED AND GATE/S LOCKED AT ALL TIMES EXCEPT WHEN ACCESS BY THE CONTRACTOR IS REQUIRED.
- 12. ALL POSTS, RAILROAD TIES, AND DECORATIVE TIMBER IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND RELOCATED AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE THEM FROM HARM. ITEMS NOT RELOCATED SHALL BE PROPERLY DISPOSED OF BY
- 13. PRIOR TO CONSTRUCTION OF ANY PROPOSED UTILITIES AND FOUNDATIONS, THE CONTRACTOR SHALL EXCAVATE AND LOCATE THE EXISTING UTILITIES TO VERIFY THEIR LOCATION, SIZE, AND DEPTH TO ENSURE THAT GRADE CONFLICTS WILL NOT OCCUR.

- 14. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE
- 15. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE
- 16. A PORTABLE BATHROOM(S) SHALL BE PLACED ON THE JOB SITE(S) AND RELOCATED WHEN NECESSARY SO IT IS ACCESSIBLE TO WORKERS. IF WORK IS OCCURRING AT SEVERAL LOCATIONS ONE PORTABLE BATHROOM SHALL BE PLACED AT EACH LOCATION WITHIN A REASONABLE DISTANCE FROM THE WORK AS DETERMINED BY THE ENGINEER.
- 17. CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.

MAINTENANCE OF TRAFFIC NOTES

- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES. ANY CHANGE IN TRAFFIC CONTROL SHALL HAVE PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) DAYS NOTICE IN ADVANCE OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS HEREBY ADVISED OF THE FOLLOWING PROJECT THAT MAY BE UNDER CONSTRUCTION DURING THE SAME TIME AS THIS CONTRACT: ILLINOIS DEPARTMENT OF TRANSPORTATION, SMART OVERLAY AND ADA IMPROVEMENTS - MILWAUKEE AVENUE FROM GLENVIEW ROAD TO 400 FT NORTH OF KENNICOTT LANE, CONTRACT NUMBER 62N53, NOVEMBER 18 2022 LETTING DATE THE CONTRACTOR WILL BE REQUIRED TO COOPERATE WITH THIS ADJACENT CONTRACT IN ACCORDANCE WITH SECTION 105.08 OF THE STANDARD SPECIFICATIONS AND MAY BE REQUIRED TO MODIFY STAGING OPERATIONS IN ORDER TO MEET THESE REQUIREMENTS. CONTRACTOR COOPERATION SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTENANCE OF TRAFFIC, TRAFFIC SIGNAL MAINTENANCE AND DETECTOR LOOP INSTALLATION.
- TRAFFIC SHALL BE MAINTAINED ACCORDING TO THE APPLICABLE HIGHWAY STANDARDS. LANE CLOSURES SHALL BE LIMITED TO BETWEEN THE HOURS OF 8:30AM TO 4:30PM. ALL LANES ON ALL STREETS SHALL BE OPEN TO 2 WAY TRAFFIC AT THE END OF EACH DAY, MAINTAINING THE EXISTING LANE AND ROADWAY WIDTHS
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

BAXTER WOODMAN

USER NAME = gfoley DESIGNED - GJF REVISED - KAR DRAWN REVISED HECKED - JBT REVISED PLOT DATE = 8/10/2023 - 08-03-2023 FILE - 212221 PH2 SHT-GenNotes 01.dar

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS 1 OF 1 SHEETS STA

TO STA.

SHEET

SECTION COUNTY 21-00203-00-TI 374 COOK 44 CONTRACT NO. 61J39

SUMMARY OF QUANTITIES

					CONSTRUC	TION CODE	
					80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	100% VILLAGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028	TRAFFIC SIGNALS 0028	0028	TRAFFIC SIGNALS 0021
20200100	EARTH EXCAVATION	CU YD	96	URBAN 96	URBAN	URBAN	URBAN
					17		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	27	27			
20000150		- CULVE	_				
20800150	TRENCH BACKFILL	CU YD	5	5			
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	361	361			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	125	125			
25200110	SODDING, SALT TOLERANT	SQ YD	125	125			
25200200	SUPPLEMENTAL WATERING	UNIT	7	7			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3	3			
28000400	PERIMETER EROSION BARRIER	FOOT	300	300			
28000510	INLET FILTERS	EACH	5	5			
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	7	7			
20200112		60.40	- 10				
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	119	119			1
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	285	285			
35501332	HOT-MIX ASPHALT BASE COURSE, 12"	SQ YD	104	104			
42001300	PROTECTIVE COAT	SQ YD	2,018	2,018			



F	PLOT SCALE = 40.0000 ' / in.	CHECKED : JBT	REVISED -
Ī	PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221 PH2 SHT-SOQ 01.dgn

SCALE:

						•	F.A.P. RTE.	SECTION	COUNTY	TOTAL	
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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRMNPlotdrykodf-BW Default.plt LICENSE NO. - 184-001121 - EXPIRES 4/30/2024NPlots\212221_PH2_PlanSet.tbl gfoley 8/10/2023 8:01:39 AM P:\GLVNV\212221-Milwaukee_Zenit

SUMMARY OF QUANTITIES

					CONSTRUC	TION CODE	
				80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	100% VILLAGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 URBAN	TRAFFIC SIGNALS 0028 URBAN	INTERCONNECT 0028 URBAN	TRAFFIC SIGNALS 0021 URBAN
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,595	1,595			
44000100	PAVEMENT REMOVAL	SQ YD	15	15			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	345	345			
11000300		1 2			:		
44000600	SIDEWALK REMOVAL	SQ FT	1,170	1,170			
44201700	CLASS D DATSUES TYPE II 12 INCH	CO VD	20	20			
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	30	30			
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	6	6			
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1			
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1			
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	1	1			
00400100	TRAMES AND LIDS, TIFE 1, CLOSED LID	LACII	1				
60500060	REMOVING INLETS	EACH	1	1			
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	180	180			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	140	140			
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	123	123			1
66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2			
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1			
SPECIALTY							



	USER NAME = gfoley	DESIGNED - GJF	REVISED -
		DRAWN KAR	REVISED -
- 1	PLOT SCALE = 40.0000 ' / in.	CHECKED JBT	REVISED -
	PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221_PH2_SHT-SOQ_01.dgn

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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COUNTY SHEETS NO.

COOK 44 4

CONTRACT NO. 61J39 03-00-TL

	SUMMARY	0F	QUANTITIES
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					CONSTRUC	TION CODE	
10% STATE 10% STATE 10%					80% FEDERAL 10% STATE 10% VILLAGE	100% VILLAGE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 URBAN	TRAFFIC SIGNALS 0028 URBAN	INTERCONNECT 0028 URBAN	TRAFFIC SIGNALS 0021 URBAN
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			
			_				
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5			
67100100	MOBILIZATION	L SUM	1	1			
						1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	. 1	1			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			-
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1			
					i i	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	248	248			
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2		-	
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	34	34			
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	12	12			
72000100	TEEESCOTING STEEL SIGN SOFTONT	1001	12	12			
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	780		780		
01020222	UNIDER CROUND CONDUIT CALVANIZED CTES 28 214	FOOT	75		75		
01078770	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	75		75		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	433		433		
SPECIALTY							



USER NAME = gfoley	DESIGNED - GJF	REVISED -
	DRAWN - KAR	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED JBT	REVISED -
PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221 PH2 SHT-SOQ 01.dgn

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPOR	RTATION

						F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						374	21-00203-00-TL	COOK	44	5	
								CONTRACT	NO. 6	1J39	
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SUMMARY	0F	QUANTITIES
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					80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	100% VILLAGE
	CODE	ITEM	UNIT	TOTAL	ROADWAY 0028	TRAFFIC SIGNALS 0028	INTERCONNECT 0028	TRAFFIC SIGNALS 0021
	NO.			QUANTITY	URBAN	URBAN	URBAN	URBAN
*	81400100	HANDHOLE	EACH	4		4		
*	81400200	HEAVY-DUTY HANDHOLE	EACH	2		2		
*	81400300	DOUBLE HANDHOLE	EACH	2		2		
- 5	2							
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1			1	
*	85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	3				3
*	85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	2				2
•	83100000	FAINT NEW MAST ARM AND FOLE, UNDER 40 TOOT	EACH	2				2
*	85100701	PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1				1
			,					
*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1			1	
					,			
*	87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	2,083			2,083	
	97200025	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2,083		7	2,083	
*	87300923	ELECTRIC CABLE IN CONDOIT, TRACER, NO. 14 TC	1001	2,003		L/	2,003	
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,251		1,251		
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,849		1,849		
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,811		1,811		
	3:		1		-		2	
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,528		1,528		
	0							
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,047		2,047		
	SPECIALTY I							

	USER NAME = gfoley	DESIGNED - GJF	REVISED -
BAXTER WOODMAN		DRAWN KAR	REVISED -
Consulting Engineers	PLOT SCALE = 40.0000 ' / in.	CHECKED JBT	REVISED -
्रस्	PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221 PH2 SHT-SOQ 01.dg

STATE OF ILLINOIS							
DEPARTMENT OF TRANSPORTATION							

_								ILLINOIS TED. A			
	SCALE	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				
							1		CONTRACT	NO. 6	1139
							374	21-00203-00-TL	соок	44	6
							F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIR UICENSE NO 184-001121 - EXPIRES 4/30/2024 groley woder. Designative Roles 186.1153 A WOBEL DESIGNATION FILE MANE: PREVIOUS 22221-MINADAGE ZENITH/CADISPERES FILE MANE: PREVIOUS 22221-MINADAGE ZENITH/CADISPERE FILE MANE: PREVIOUS 22221-MINADAGE ZENITH/CADISPERES FILE MANE: PREVIOUS 22221-MINADAGE FILE MANE:	
STATE OF ILL LICENSE NO. gfoley MODEL: Default FILE NAME: PY	BAXTER WOODMAN Consulting Engineers

SUMMARY OF QUANTITIES

						CONSTRUC	TION CODE	
			5		80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	100% VILLAGE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 URBAN	TRAFFIC SIGNALS 0028 URBAN	INTERCONNECT 0028 URBAN	TRAFFIC SIGNA 0021 URBAN
873	301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	167	ONDAN	167	ONDAN	OKTAN
				3				
873	301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	875		875		
875	502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3		3		
87	700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2		2		
87	700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1		1		
87	702670	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 34 FT.	EACH	1		1		
	,			1				
878	800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16		
878	800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4		
878	800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	14		14		
878	800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	38		38		
879	900200	DRILL EXISTING HANDHOLE	EACH	2		2		
880	030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6		6		
880	030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4		4		
200	030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2		
		SIGNAL HEAD, LED, ITIACE, STREETION, STACKET MOUNTED	LACII	2				
880	030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6		6		
SDE	CIALTY I	TEM	l l		i.			

-	USER NAME = gfoley	DESIGNED - GJF	REVISED -	į
		DRAWN KAR	REVISED -	
s	PLOT SCALE = 40.0000 ' / in.	CHECKED : JBT	REVISED -	ı
1.0	PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221 PH2 SHT-SOQ 01.dgn	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

							F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.
							374	21-00203-00-TL	соок	44	7
									CONTRACT	NO. 6	51J39
ļ	SCALE	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM\Plotdrvlodf-BW Default.plt LICENSE NO. - 184-001121 - EXPIRES 4/30/2024 ...\Plots\2.12221_PH2_PlanSet.tbl gfoley MODEL: Deput RICE NAME: PAGLVNN212221-Milwaukee_ZenithCadiSheets Phase 2/212221 PH2 SHT-500 01 dgn

SUMMARY	0F	QUANTITIES

		CONSTRUCTION CODE						
7,0				80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	100% VILLAGE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 URBAN	TRAFFIC SIGNALS 0028 URBAN	INTERCONNECT 0028 URBAN	TRAFFIC SIGNALS 0021 URBAN	
881027	17 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	ONBAN	8	ONDAN	OKBAN	
882004	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12		12			
995,001	00 INDUCTIVE LOOP DETECTOR	EACH	6		6			
863001	INDUCTIVE LOOP DETECTOR	EACH	0		0			
886001	DO DETECTOR LOOP, TYPE I	FOOT	346		346			
887002	00 LIGHT DETECTOR	EACH	2				2	
007007	AND LIGHT DETECTOR AND LEIGH	EAGU.						
887003	00 LIGHT DETECTOR AMPLIFIER	EACH	1				1	
890001	00 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1			
			2					
895001	REMOVE EXISTING SERVICE INSTALLATION	EACH	1		1			
005000		5007	1.042			1.042		
895023	00 REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,843			1,843	-	
895023	75 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1			
895023	76 REBUILD EXISTING HANDHOLE	EACH	1		1			
895023	REMOVE EXISTING HANDHOLE	EACH	5		5		-	
895023	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1			
895023	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7	1	7			
X03240	B5 EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	542				542	
1		L		1				

-	USER NAME = gfoley	DESIGNED - GJF	REVISED -
		DRAWN KAR	REVISED -
- 1	PLOT SCALE = 40.0000 ' / in.	CHECKED JBT	REVISED
	PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221_PH2_SHT-SOQ_01.dgn

STATE	ΕΟΙ	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

						F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						374	21-00203-00-TL	соок	44	8
						CONTRACT NO. 61J39			1139	
SCALE	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM LICENSE NO. - 184-001121 - EXPIRES 4/30/2024 g/loley 8/10/2023 8:02:02 AM MODEL Defroit

					10% STATE	10% STATE	10% STATE	
į,					10% VILLAGE	10% VILLAGE	10% VILLAGE	100% VILLAGE
-1	CODE			TOTAL	ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	TRAFFIC SIGNALS
	NO.	ITEM	UNIT	QUANTITY	0028	0028	0028	0021
	-				URBAN	URBAN	URBAN	URBAN
*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	800			800	
Ì								
ı								
*	X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4				4
1								
	X 1200160	CONNECTION TO EXISTING DRAINAGE STRUCTURE	EACH	1	1			
-								<u> </u>
1	V 1400100	ELILI ACTUATED CONTROLLED AND TYPE CURED D CARINET (CRECIAL)	EACH	1		1		
*	X 1400108	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1		1		
-								
*	X 1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1		
Î								
1								
*	X 1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2		2		
1						Ť		<u>. </u>
ļ								
*	X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	754				754
ł					:	-		
1	X2130010	EXPLORATION TRENCH (SPECIAL)	FOOT	20		20		
	X2130010	EXTERNATION TRENCH (SI ECINE)	1001	20	,	20		,
ł	V 42 40000	DETECTABLE WARNINGS (CRESIAL)	CO FT	0.4	0.4			7
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	94	94			
1								
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	1	1			
1								
-		DAINT NEW MACT ADM ACCEMBLY AND DOLE WITH DUAL MACT ADMC 1 LINDED 40 FEET						
*	X8510502	PAINT NEW MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 1-UNDER 40 FEET, 1-OVER 40 FEET	EACH	1				1
İ					ĺ		Î	i i
*	X8620200	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1		1		
Ì								es s
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8		8		
Ì	XX006596	DECORATIVE BASE FOR COMBINATION MAST ARM ASSEMBLY AND POLE	EACH	4				4
*		THE PROPERTY OF THE PROPERTY O	2/1011	·				
ł		DECODATIVE DACE FOR TRAFFIC CICHAL POST	FACT	2		*		*
۱ ا	XX009599	DECORATIVE BASE FOR TRAFFIC SIGNAL POST	EACH	3				3
*	SPECIALTY I	TEM						<u>, </u>

SUMMARY OF QUANTITIES

CONSTRUCTION CODE

80% FEDERAL 80% FEDERAL 80% FEDERAL

BAXTER WOODMAN Consulting Engineers

USER NAME = gfoley DESIGNED - GJF REVISED -DRAWN - KAR REVISED -PLOT SCALE = 40.0000 ' / in. CHECKED JBT REVISED -PLOT DATE = 8/10/2023 DATE - 08-03-2023 FILE - 212221 PH2 SHT-SOQ_01.dgn

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

					1	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
						374	21-00203-00-TL	соок	44	9
								CONTRACT	NO. 6	1139
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

THE PERSON ALL PRINT	Company of the case of the case	the street was a constitution of the street	PRINT MANNEY PARTY
			MODEL: Default
P:\GLVNV\2	8:02:07 AM	8/10/2023	gfoley
\Plots\212	RES 4/30/2024	LICENSE NO 184-001121 - EXPIRES 4/30/2024	LICENSE NO
\Plotdrv\p	AL DESIGN FIRM	STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM	SIAIE OF ILLIN

SUMMARY OF QUANTITIES

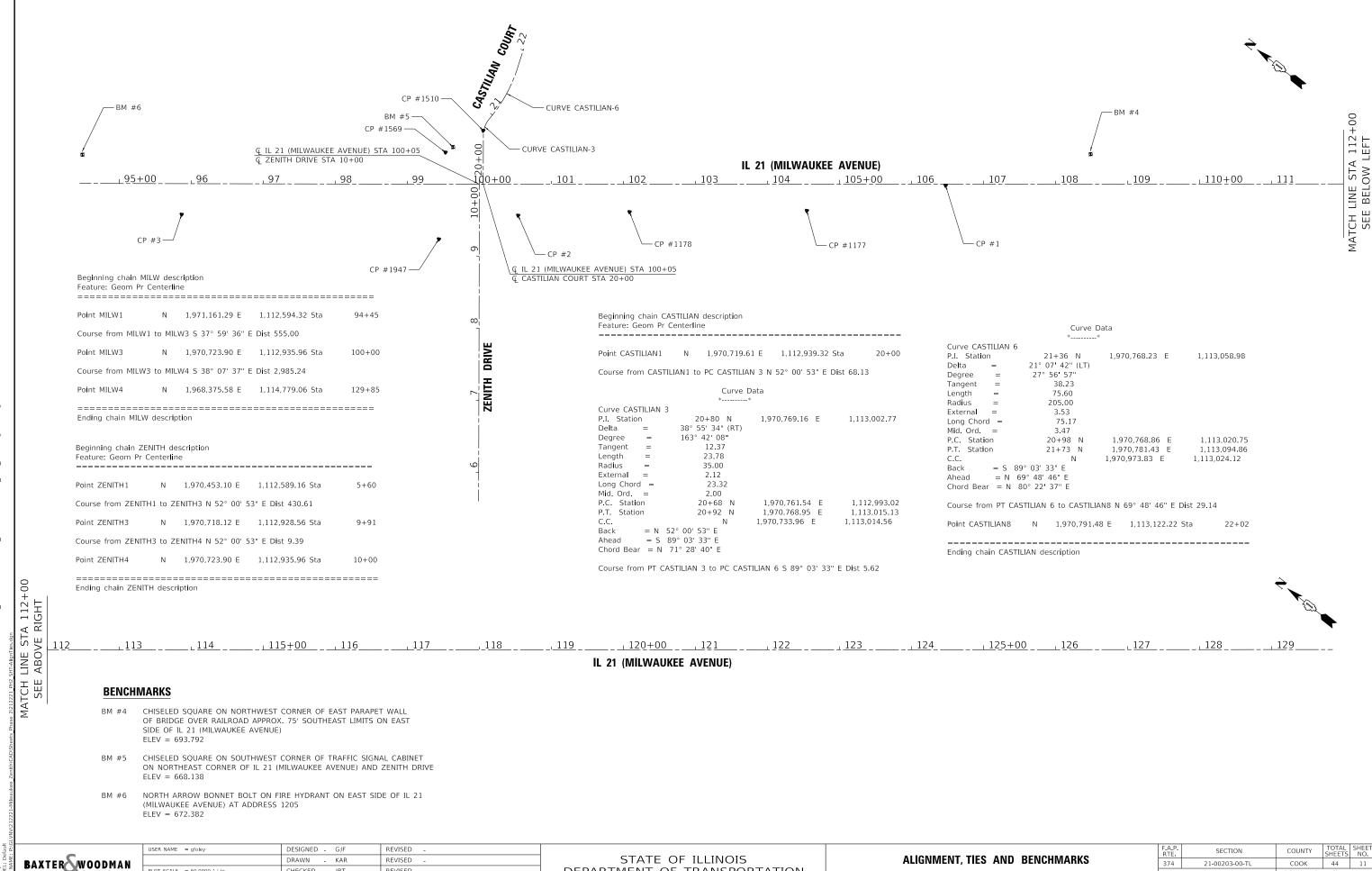
				CONSTRUCTION CODE					
			-	80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	80% FEDERAL 10% STATE 10% VILLAGE	100% VILLAGE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 URBAN	TRAFFIC SIGNALS 0028 URBAN	INTERCONNECT 0028 URBAN	TRAFFIC SIGNAL 0021 URBAN		
Z0007430	TEMPORARY SIDEWALK	SQ FT	60	60	URBAN	URBAN	URBAN		
		+							
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	78	78					
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1			1			
Z0062456	TEMPORARY PAVEMENT	SQ YD	5	5					
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1				
							-		
20076600	TRAINEES	HOUR	500	500			-		
70076604	TRAINING TRAINING PROGRAM CRADUATE	HOUR	F00	F00					
20076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500			-		
		1							
						-	. a		
							,		
SPECIALTY I									

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		USER NAME = gfoley	DESIGNED - GJF	REVISED -
A POIL	BAXTER WOODMAN		DRAWN - KAR	REVISED -
Z L	Consulting Engineers	PLOT SCALE = 40.0000 ' / in.	CHECKED BT	REVISED -
Ē		PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221 PH2 SHT-SOQ 01.dgn

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

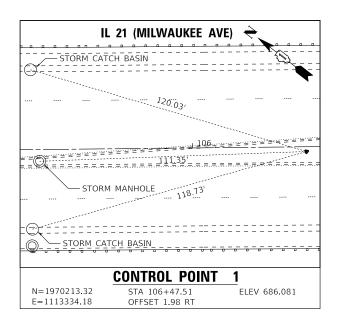
					12	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
						374	21-00203-00-TL	соок	44	10
								CONTRACT	NO. 6	1J39
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

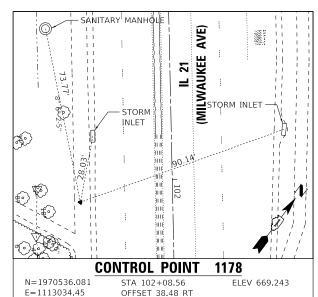


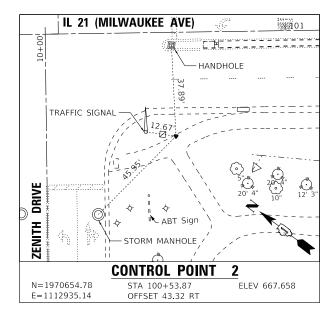
DRAWN - KAR REVISED HECKED - JBT REVISED PLOT DATE = 8/10/2023 DATE FILE - 212221 PH2 SHT-AlignTies.dgr - 08-03-2023

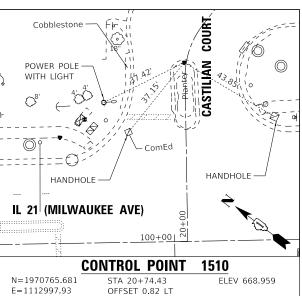
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

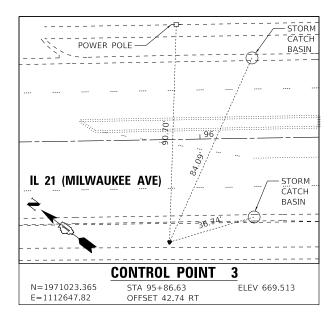
ALIGNMENT, TIES AND BENCHMARKS 374 21-00203-00-TL COOK 44 11 CONTRACT NO. 61J39 SCALE: 1" = 60' SHEET 1 OF 1 SHEETS STA.

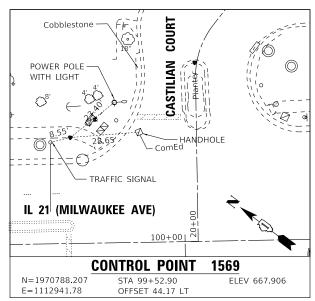


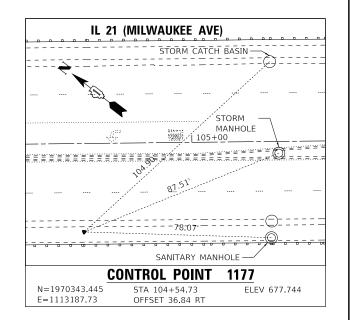


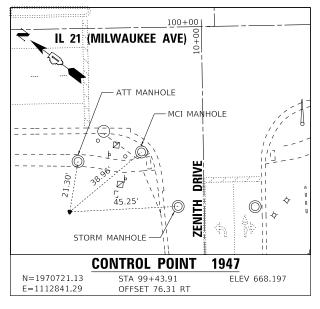










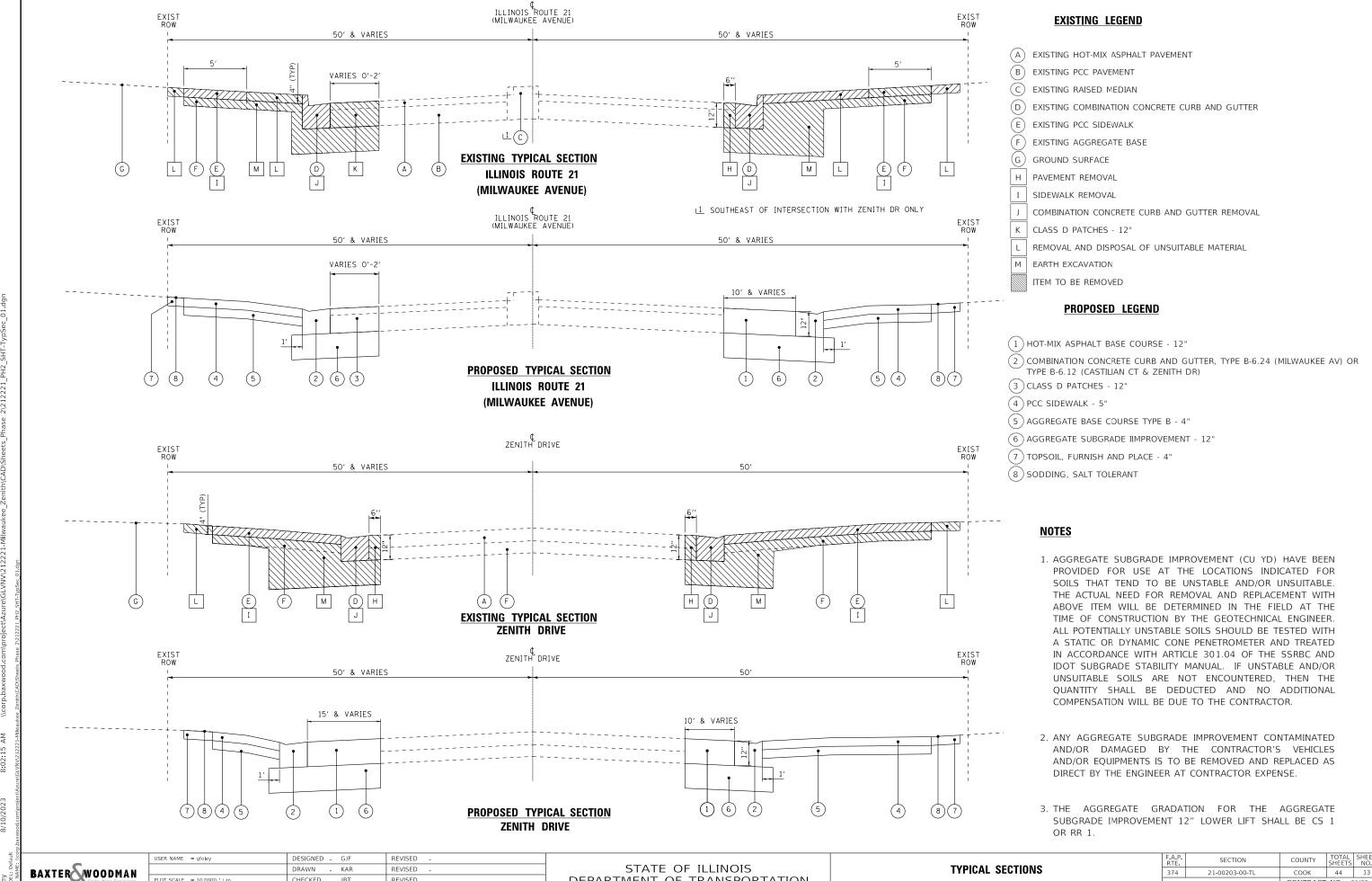


BAXTER WOODMAN Consulting Engineers

USER NAME = gfoley	DESIGNED - GJF	REVISED -
	DRAWN - KAR	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JBT	REVISED -
PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221 PH2 SHT-AlignTies1.dgn

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

					T IF 0			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					TIES			374	21-00203-00-TL	COOK	44	12
								CONTRACT	NO. 6	1139		
1" = 20'	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



DEPARTMENT OF TRANSPORTATION

SCALE: NTS SHEET 1 OF 2 SHEETS STA.

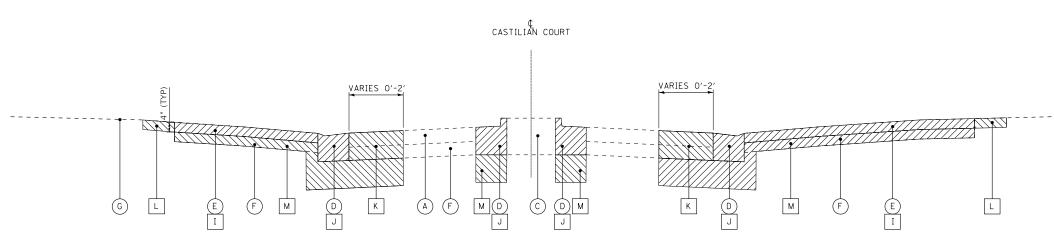
CONTRACT NO. 61J39

LOT SCALE = 10.0000 ' / in.

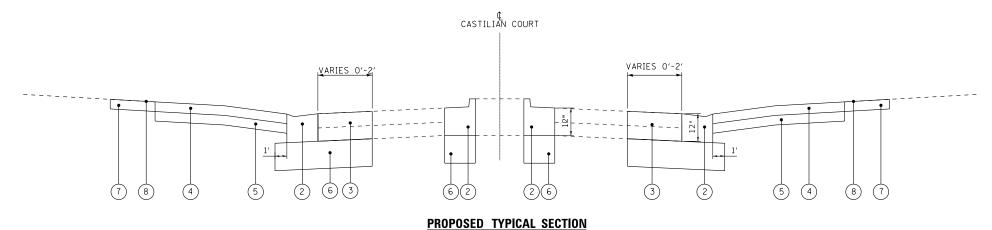
CHECKED - JBT

REVISED

FILE - 212221 PH2 SHT-TypSec 01.day



EXISTING TYPICAL SECTION CASTILIAN COURT



CASTILIAN COURT

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT
- (B) EXISTING PCC PAVEMENT
- C EXISTING RAISED MEDIAN
- (D) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (E) EXISTING PCC SIDEWALK
- (F) EXISTING AGGREGATE BASE
- (G) GROUND SURFACE
- H PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL
- CLASS D PATCHES 12"
- REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- EARTH EXCAVATION
- ITEM TO BE REMOVED

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT BASE COURSE 12"
- (2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MILWAUKEE AV) OR TYPE B-6.12 (CASTILIAN CT & ZENITH DR)
- (3) CLASS D PATCHES 12"
- 4 PCC SIDEWALK 5"
- (5) AGGREGATE BASE COURSE TYPE B 4"
- (6) AGGREGATE SUBGRADE IIMPROVEMENT 12"
- (7) TOPSOIL, FURNISH AND PLACE 4"
- (8) SODDING, SALT TOLERANT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS				
MIXTURE TYPE	AIR VOIDS @ Ndes	QMP		
PAVEMENT WIDENING				
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0mm), 12"	4% @ 70 Gyr.	LR1030-2		
PATCHING				
CLASS D PATCHES (HMA BINDER IL-19.0mm), 12" 4% @ 70 Gyr. LR1030				
TEMPORARY PAVEMENT / SIDEWALK				
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm), 2"	4% @ 50 Gyr.	LR1030-2		
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR1030-2				

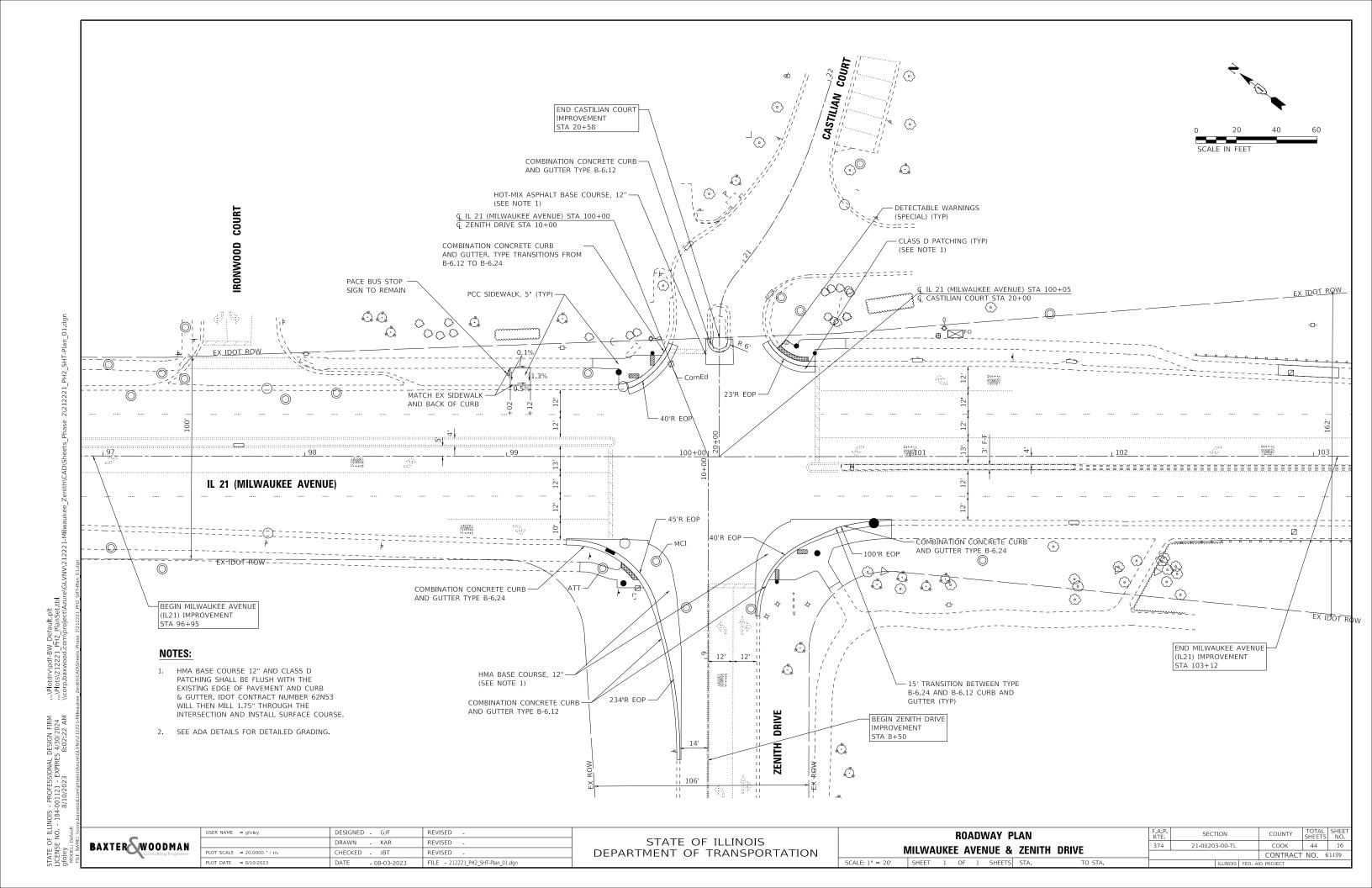
- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
- 3. PAVEMENT WIDENING AND PATCHING SHALL BE FLUSH WITH THE EXISTING EDGE OF PAVEMENT AND CURB & GUTTER. IDOT CONTRACT NUMBER 62N53 WILL THEN MILL 1.75" THROUGH THE INTERSECTION AND INSTALL SURFACE COURSE.

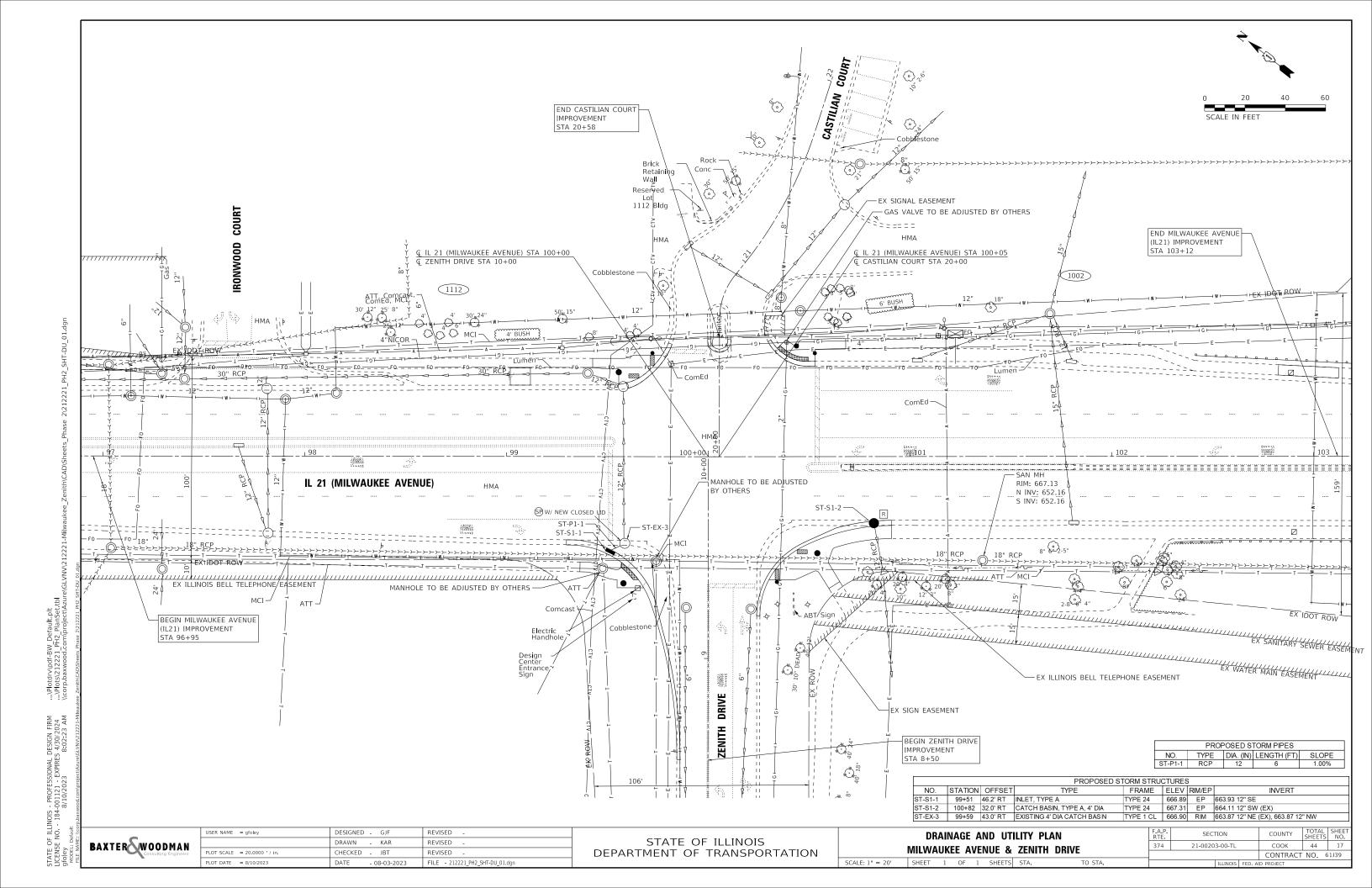
BAXTER WOODMAN

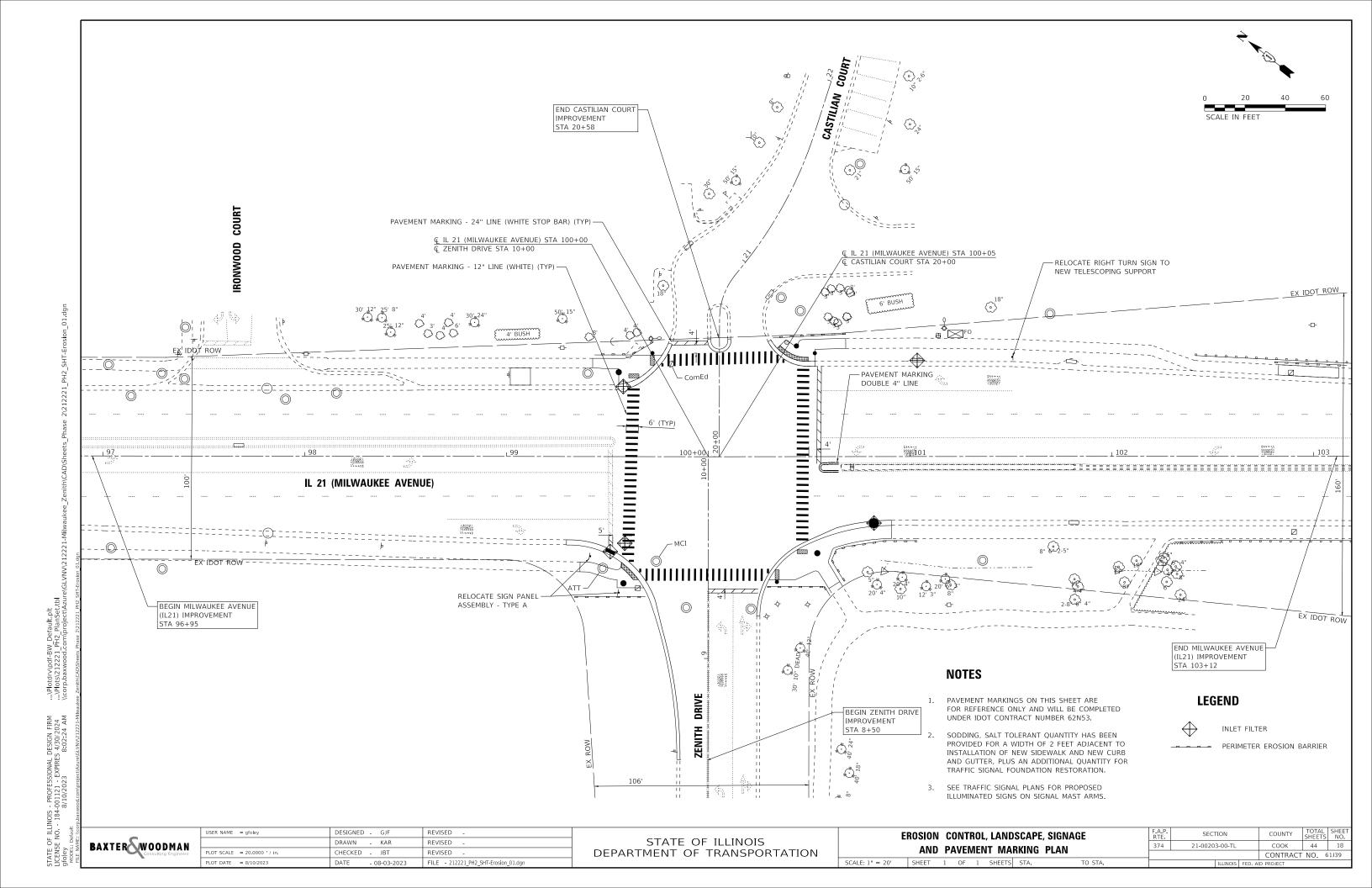
USER NAME = gfoley	DESIGNED - GJF	REVISED -
	DRAWN - KAR	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - JBT	REVISED -
PLOT DATE = 8/10/2023	DATE - 08-03-2023	FILE - 212221_PH2_SHT-TypSec_01.dgn

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TYDICAL SECTIONS	F.A.P. RTE	SECTION	CC	DUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL SECTIONS	374	21-00203-00-TL	C	ООК	44	14
			CO	NTRACT	NO. 6	1J39
SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJ	ECT		







TRAFFIC SIGNAL LEGEND (NOT TO SCALE)

<u>ITEM</u>	<u>EXISTING</u>	<u>PROPOSED</u>
CONTROLLER CABINET	\boxtimes	
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	ЕМС	MC
MASTER MASTER CONTROLLER	EMMC	ммд
UNINTERRUPTABLE POWER SUPPLY	Ø	9
SERVICE INSTALLATION -(P) POLE MOUNTED	-C- ^P	- ■ -
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	⊠ ^G ⊠ ^{GM}
TELEPHONE CONNECTION	ET	Т
STEEL MAST ARM ASSEMBLY AND POLE	O	•——
ALUMINUM MAST ARM ASSEMBLY AND POLE	0	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o : ¤—	•*
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	● BM
WOOD POLE	\otimes	•
GUY WIRE	>-	>-
SIGNAL HEAD	>	-
SIGNAL HEAD WITH BACKPLATE	+>	+►
SIGNAL HEAD OPTICALLY PROGRAMMED	> ^P +-> ^P	- ▶ P + ▶ P
FLASHER INSTALLATION -(FS) SOLAR POWERED	o-⊳ ^F o-⊳ ^{FS}	•► FS
	вр в в s s s s s s s s s s s s s s s s s	■→ ^F ■→ ^{FS}
PEDESTRIAN SIGNAL HEAD	-0	-
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	⊚ ⊗ APS	
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA		V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR	\bowtie	←
CONFIMATION BEACON	○ —(]	⊷
WIRELESS INTERCONNECT	○- 	•
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

	(1101 10 00/122)
ITEM	<u>existing</u>
HANDHOLE -SQUARE -ROUND	
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H (B)
DOUBLE HANDHOLE	
JUNCTION BOX	
RAILROAD CANTILEVER MAST ARM	X OX X
RAILROAD FLASHING SIGNAL	∑⊙ ∑
RAILROAD CROSSING GATE	∑0∑ >
RAILROAD CROSSBUCK	否
RAILROAD CONTROLLER CABINET	
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL	
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	
SYSTEM ITEM	S
INTERSECTION ITEM	I
REMOVE ITEM	
RELOCATE ITEM	
ABANDON ITEM	
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	
MAST ARM POLE AND FOUNDATION TO BE REMOVED	
SIGNAL POST AND FOUNDATION TO BE REMOVED	
DETECTOR LOOP, TYPE I	
PREFORMED DETECTOR LOOP	PP
SAMPLING (SYSTEM) DETECTOR	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS (S)
QUEUE AND SAMPLING (SYSTEM) DETECTOR	os (os
WIRELESS DETECTOR SENSOR	®
WIRELESS ACCESS POINT	

PROPOSED	<u>ITEM</u>
	SIGNAL HEAD -(P) PROGRAMMAE
⊞ ⊕	
D X •X X X•X	SIGNAL HEAD WIT -(P) PROGRAMMAE -(RB) RETROREFLE
X⊕X	PEDESTRIAN SIGN AT RAILROAD INTI
▶ ∢	PEDESTRIAN SIGN WITH COUNTDOW
	ILLUMINATED SIGN "NO LEFT TURN"/"
SP IP	NUMBER OF CONE CABLE NO. 14, UN ALL DETECTOR LO
R	GROUND CABLE II NO. 6 SOLID COPI
RL A	ELECTRIC CABLE I NO. 14 1/C
RCF	COAXIAL CABLE
RMF	VENDOR CABLE
RPF	COPPER INTERCOM NO. 18, 3 PAIR TV
P P	FIBER OPTIC CABL -NO. 62.5/125, MN -NO. 62.5/125, MN -NO. 62.5/125, MN
5 (5)	
IS (IS) OS (OS)	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE
-	

ITEM	<u>EXISTING</u>	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G C P	R
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	RB RB	$ \begin{array}{c c} \hline R \\ Y \\ G \\ \hline \bullet Y \\ \hline \bullet G \\ \hline \hline \bullet G \\ \hline \bullet G \\ \hline \hline \bullet G \\ \hline \bullet G \\ \hline \hline \hline \bullet G \\ \hline \hline \hline \bullet G \\ \hline \hline \hline \bullet $
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS	X	₽
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	() C () D	♥ C ★ D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
COAXIAL CABLE	<u> </u>	<u> </u>
VENDOR CABLE		
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	(6#18)	(6#18)
FIBER OPTIC CABLE -NO. 62.5/125, MM12F		—(12F)—
-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		—
	36F)	—(36F)—
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	<u></u>	<u></u>

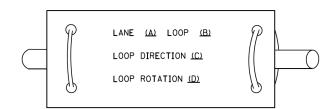
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STATE OF	: ILLINOIS
DEPARTMENT OF	TRANSPORTATION

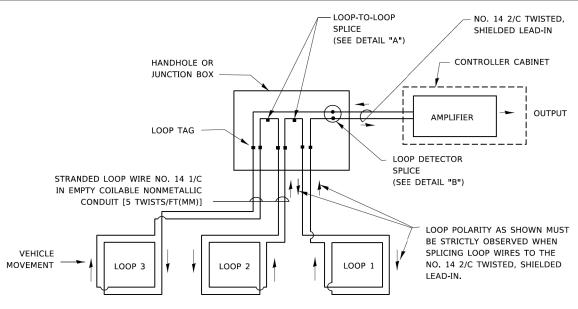
	<u> </u>	DIST	RICT O	NE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	
e	TANDARD	TRAFFIC	CICNA	DESIGN	DETAILS	374	21-00203-00-TL	COOK	44	19
3	IANDAND	IIIAIII	SIGNA	L DESIGN	DETAILS		TS-05	CONTRACT	NO.61	139
SCALE: NONE	SHEET 1	OF 7	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

- 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.
- 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.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

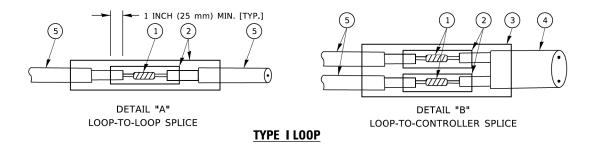


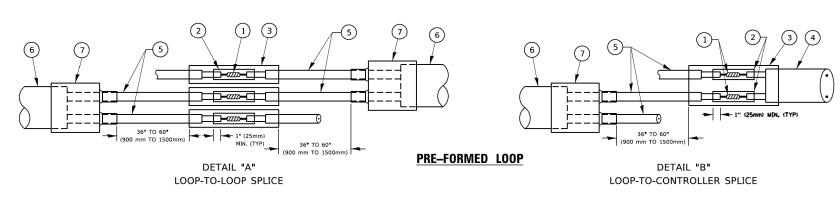
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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





LOOP DETECTOR SPLICE

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

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

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PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

| SHEET 2 OF 7 SHEETS STA TO STA

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

374 21-00203-00-TL COOK 44 20

TS-05 CONTRACT NO. 61J39

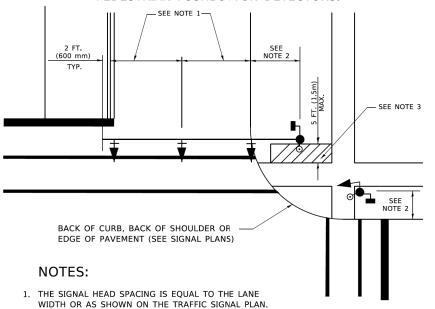
| ILLINOIS | FED. AID PROJECT

IS SHEET NO.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

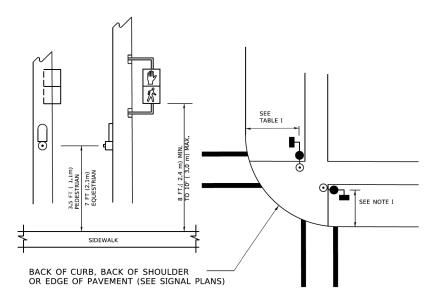
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



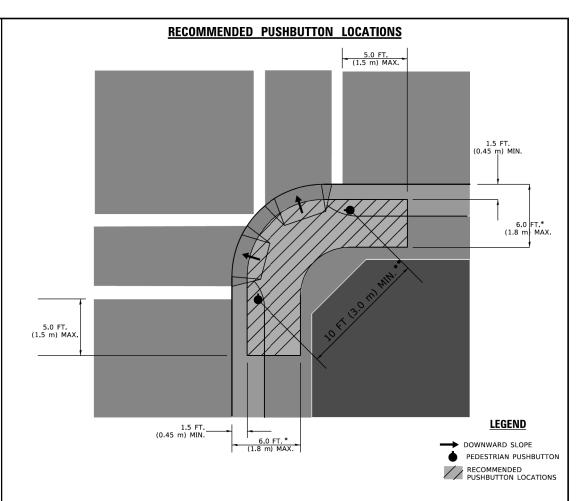
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 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.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

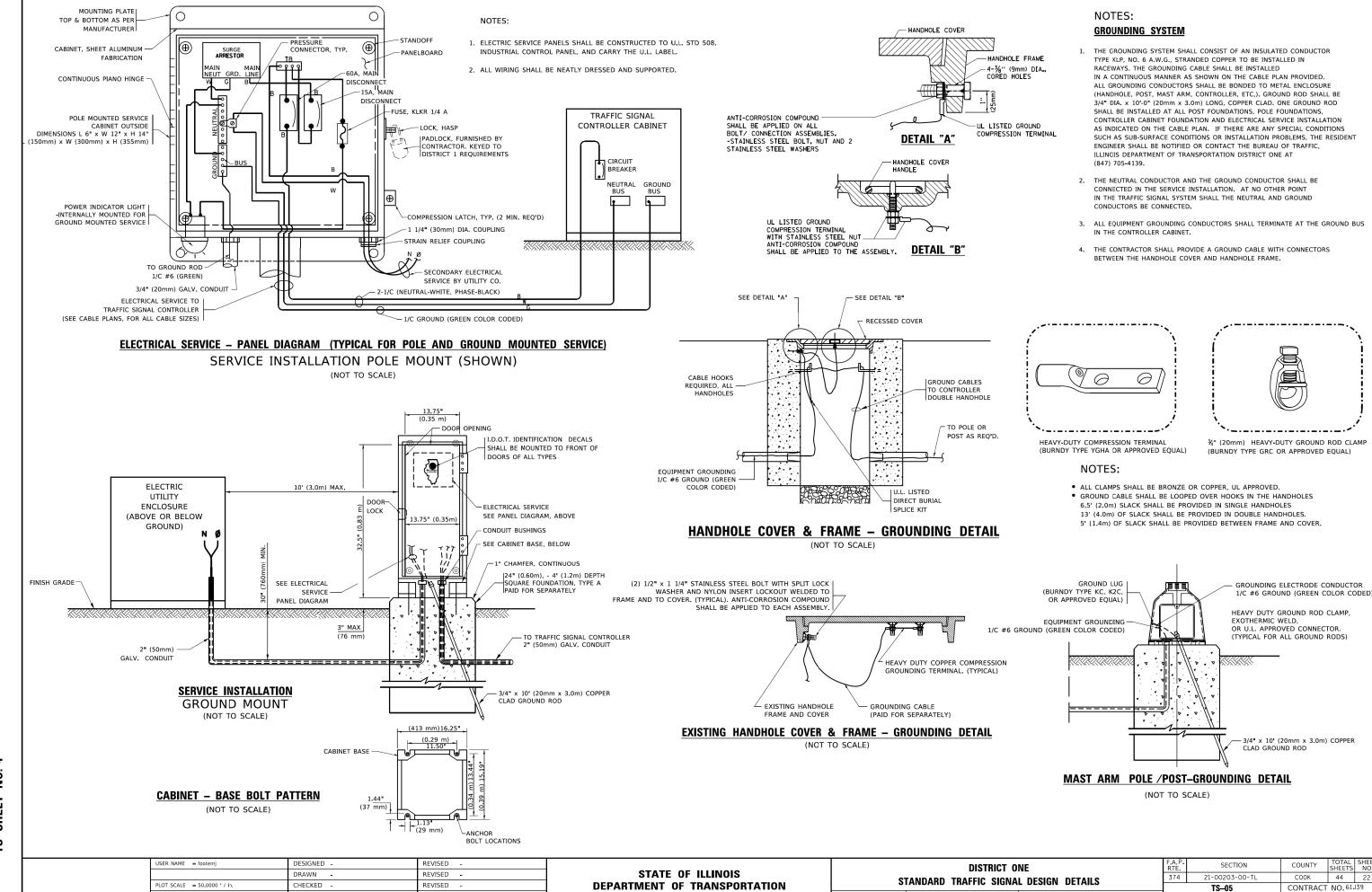
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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

SCALE: NONE

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	374	21-00203-00-TL	COOK	44	21
STANDARD TRAFFIC STORAGE DESIGN DETAILS		TS-05	CONTRACT	NO.61	139
SHEET 3 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

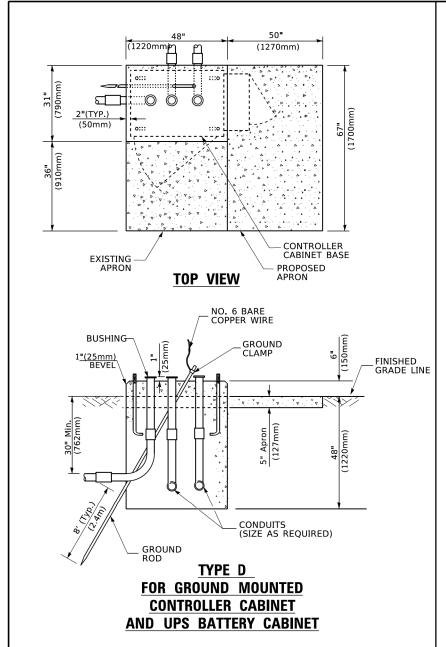


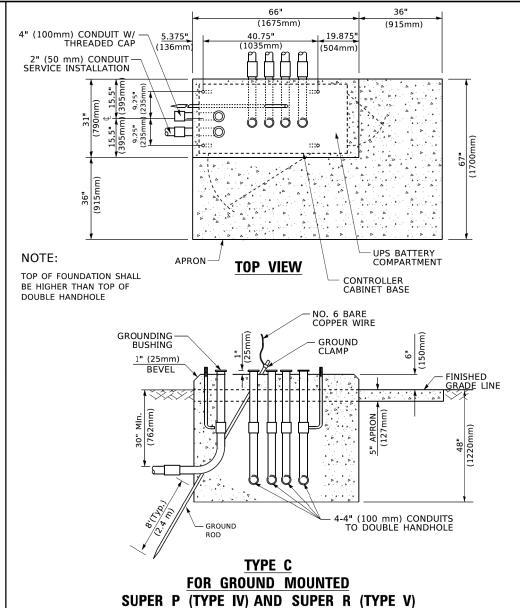
SHEET 4 OF 7 SHEETS STA

DATE

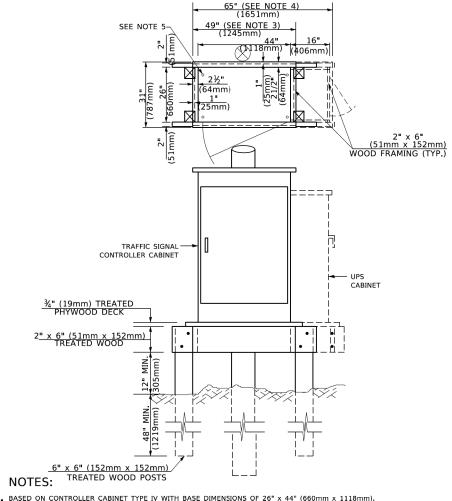
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CONTROLLER CABINETS



- 1. 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 CABLE LENGTH

CABLE SLACK

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

DEPTH OF FOUNDATION

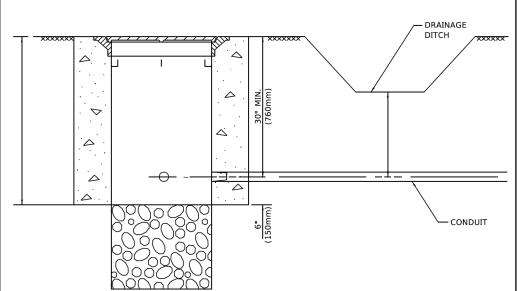
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3 _• 0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4₌1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4 _• 0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7 . 6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

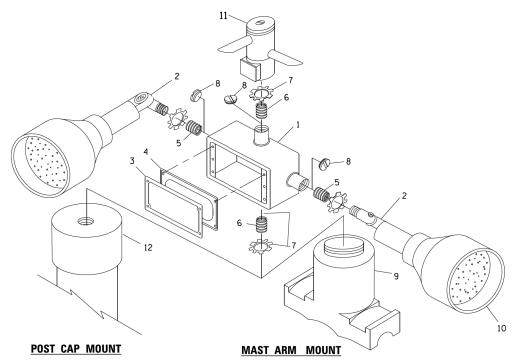
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	DRAWN -	REVISED -	STATE OF ILLINOIS		CTANDADD		SIGNA		DETAILE	374	21-00203-00-TL	соок	44	23
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD	IKAFFIL	SIGNA	L DESIGN	DETAILS		TS-05	CONTRACT	NO. 61J	39
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE	SHEET 5	OF 7	SHEETS	STA.	TO STA.		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)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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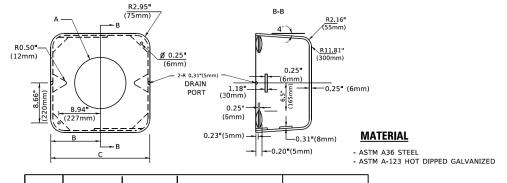
(915mm) (1035mm) CONTROLLER CABINET BASE PROPOSED-**TOP VIEW** APRON -NO. 3 DOWEL 18" (450mm NO. 6 BARE COPPER WIRE LONG (8 REQ.) BUSHING-GROUND CLAMP EXISTING-ANCHOR BOLTS **FINISHED** GRADE LINE BEVEL (225mm) -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

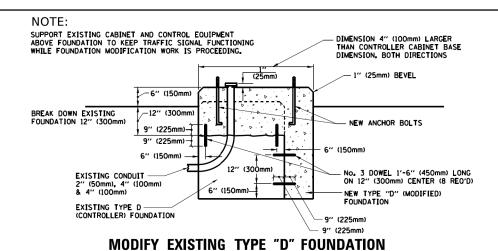
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION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

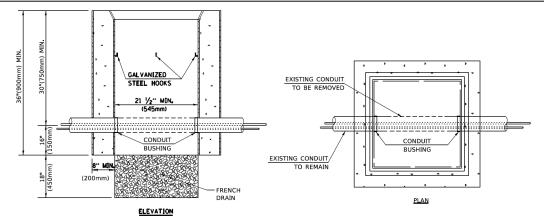


Α	В	С	HEIGHT	WEIGHT	
VARIES 9.5"(241mm) 19"(483mm)		7" (178mm) - 12" (300mm)	53 lbs (24kg)		
VARIES	(ES 10.75"(273mm) 21.5"(546mm)		7" (178mm) - 12" (300mm)	68 lbs (31 kg)	
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)	
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)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





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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

DISTRICT ONE SHEETS NO. 21-00203-00-T COOK SHEET 6 OF 7 SHEETS STA.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

CONTRACT NO. 61J39

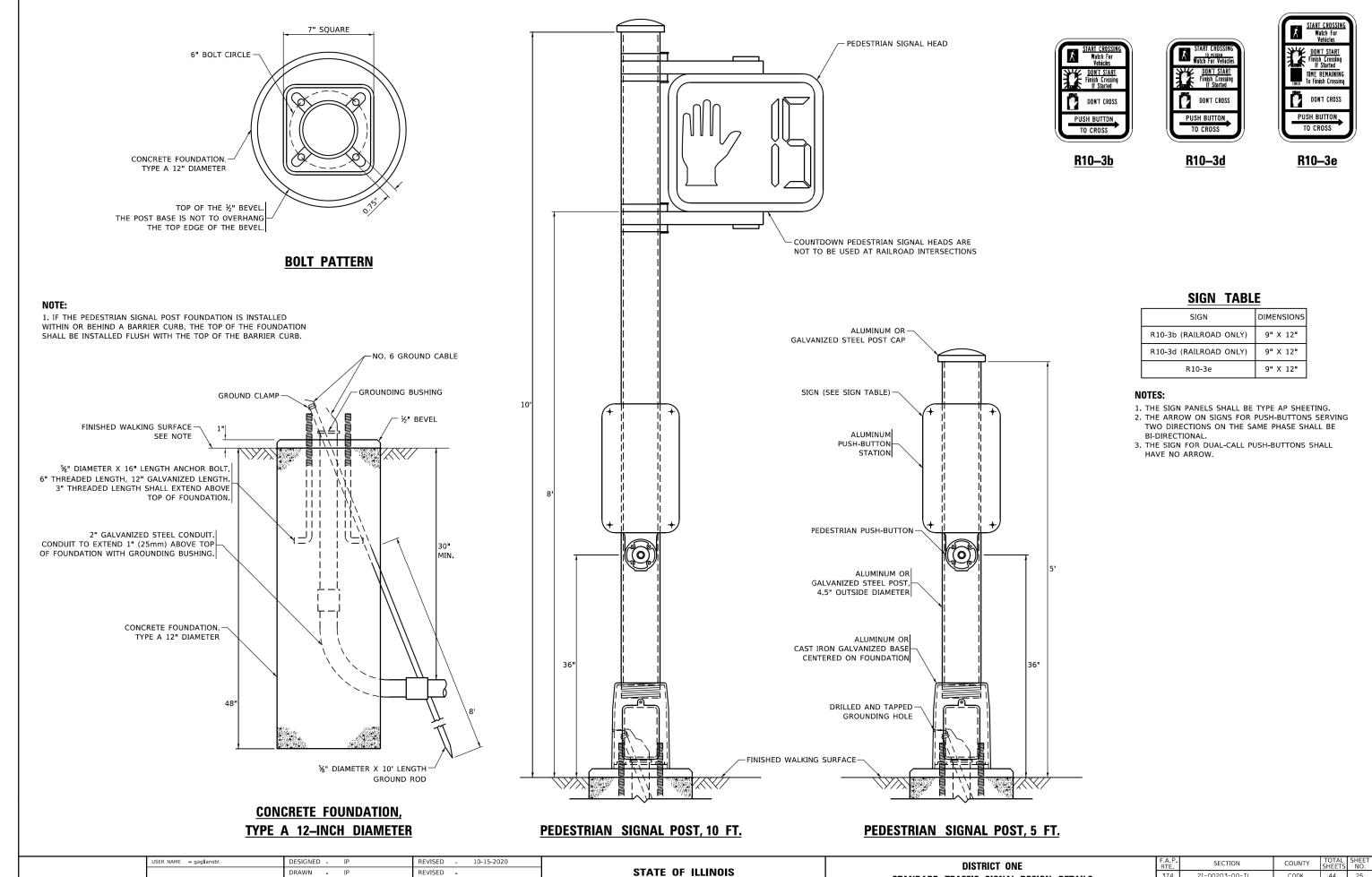


PLOT SCALE = 100,0000 ' / in.

CHECKED -

- 10-15-2018

REVISED



DEPARTMENT OF TRANSPORTATION

21-00203-00-TL

TS-05

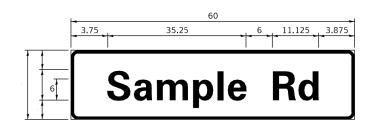
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

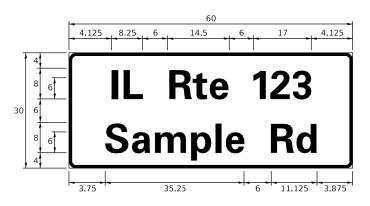
SHEET 7 OF 7 SHEETS STA.

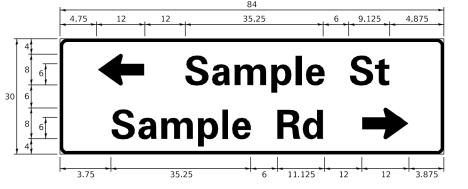
COOK 44 25

CONTRACT NO. 61J39

SIGN PANEL - TYPE 1 OR TYPE 2







DES I GN	AREA	SIGN PANEL	SHEETING	QTY.
SER I ES	(SQ FT)	TYPE	TYPE	REQUIRED
D OR C	-	1 OR 2	ZZ	

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)
NAME	ADDREVALION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8. 250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	ΙL	7. 000	8. 250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	PΙ	7. 125	7. 750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8. 000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7. 750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

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

LOCAL SUPPLIERS: PARTS LISTING:

- J.O. HERBERT COMPANY, INC. MIDLOTHIAN, VA

- WESTERN REMAC, INC.

WOODRIDGE, IL

SIGN CHANNEL SIGN SCREWS BRACKETS

PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER

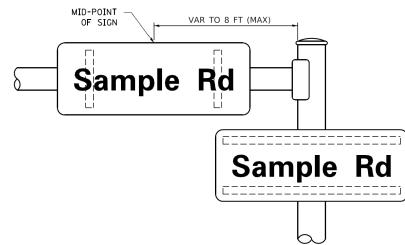
PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

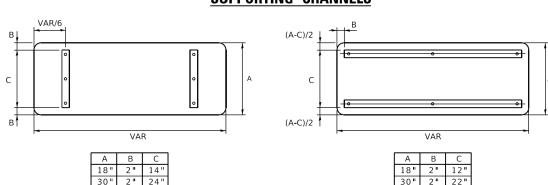
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

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

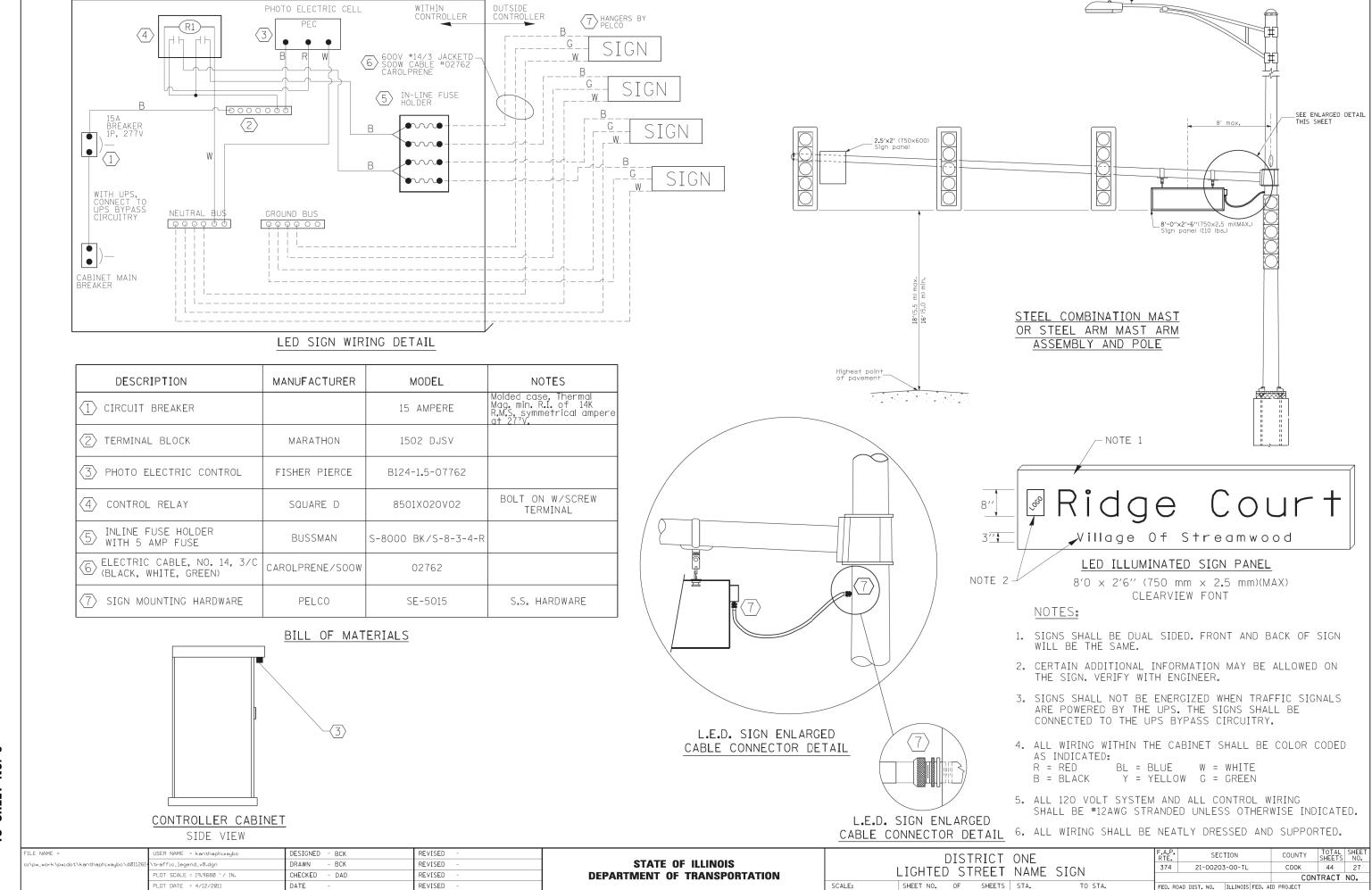
	FHWA SEF	RIES "C"		FHWA SERIES "D"				
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACINO (INCH)	
Α	0.240	5.122	0.240	Α	0.240	6.804	0.240	
В	0.880	4.482	0.480	В	0.960	5.446	0.400	
С	0.720	4.482	0.720	С	0.800	5.446	0.800	
D	0.880	4.482	0.720	D	0.960	5.446	0.800	
E	0.880	4.082	0.480	Е	0.960	4.962	0.400	
F	0.880	4.082	0.240	F	0.960	4.962	0.240	
G	0.720	4.482	0.720	G	0.800	5.446	0.800	
Н	0.880	4.482	0.880	Н	0.960	5.446	0.960	
I	0.880	1.120	0.880	I	0.960	1.280	0.960	
J K	0.240	4.082	0.880	J K	0.240	5.122	0.960	
L	0.880 0.880	4. 482 4. 082	0.480 0.240	L	0.960 0.960	5.604 4.962	0.400	
M	0.880	5. 284	0.880	M	0.960	6. 244	0.960	
N	0.880	4. 482	0.880	N N	0.960	5. 446	0.960	
0	0.720	4. 722	0.720	0	0.800	5.684	0.800	
P	0.880	4, 482	0.720	P	0.960	5.446	0,240	
a	0.720	4. 722	0.720	Q	0.800	5 684	0.800	
R	0.880	4.482	0.480	R	0.960	5.446	0.400	
S	0.480	4.482	0.480	S	0.400	5.446	0.400	
T	0.240	4.082	0.240	Т	0.240	4.962	0.240	
C	0.880	4.482	0.880	U	0.960	5.446	0.960	
٧	0.240	4.962	0.240	V	0.240	6.084	0.240	
W	0.240	6.084	0.240	W	0.240	7. 124	0.240	
X	0.240	4.722	0.240	X	0.400	5.446	0.400	
Y 7	0.240	5. 122	0.240	Y	0.240	6.884	0.240	
Z	0.480 0.320	4. 482 3. 842	0.480	Z	0.400	5.446	0.400	
<u>а</u> Ь	0. 320	4.082	0.640 0.480	a b	0.400 0.800	4.562 4.802	0.720	
C	0.120	4.002	0.480	С	0.480	4.722	0.460	
d	0.480	4.082	0.720	d	0.480	4. 802	0.800	
e	0.480	4.082	0.320	e	0.480	4. 722	0.320	
f	0.320	2.480	0.160	f	0.320	2.882	0.160	
g	0.480	4.082	0.720	g	0.480	4.802	0.800	
h	0.720	4.082	0.640	h	0.800	4.722	0.720	
i	0.720	1.120	0.720	i	0.800	1.280	0.800	
j	0.000	2.320	0.720	j	0.000	2.642	0.800	
k	0.720	4.322	0.160	k	0.800	5.122	0.160	
	0.720	1.120	0.720	ı	0.800	1.280	0.800	
m	0.720	6. 724	0.640	m	0.800	7. 926	0.720	
n	0.720 0.480	4.082 4.082	0.640 0.480	n	0.800 0.480	4.722 4.882	0.720	
<u>о</u> р	0.720	4.082	0.480	р	0.480	4.802	0.480	
q	0. 480	4.082	0.720	q	0.480	4. 802	0.800	
r	0.720	2.642	0.160	r	0.800	3.042	0.160	
s	0.320	3. 362	0.240	S	0.320	3. 762	0.240	
+	0.080	2.882	0.080	t	0.080	3. 202	0.080	
u	0.640	4.082	0.720	u	0.720	4.722	0.800	
٧	0.160	4.722	0.160	V	0.160	5.684	0.160	
W	0.160	7.524	0.160	w	0.160	9.046	0.160	
×	0.000	5. 202	0.000	х	0.000	6. 244	0.000	
У	0.160	4.962	0.160	у	0.160	6.004	0.160	
Z	0.240	3. 362	0.240	Z 1	0.240	4.002	0.240	
1	0.720	1.680	0.880	1	0.800	2.000	0.960	
3	0.480	4.482	0.480	2	0.800	5.446	0.800	
4	0.480 0.240	4.482 4.962	0.480 0.720	3 4	1.440 0.160	5. 446 6. 004	0.800	
5	0. 480	4. 482	0. 120	5	0. 160	5. 446	0.800	
6	0.480	4. 482	0.720	6	0.800	5.446	0.800	
7	0.120	4.482	0.720	7	0.560	5.446	0.560	
8	0.480	4.482	0.480	8	0.800	5. 446	0.800	
9	0.480	4.482	0.480	9	0.800	5.446	0.800	
0	0.720	4. 722	0.720	0	0.800	5. 684	0.800	
-	0.240	2.802	0.240	-	0.240	2.802	0.240	

REVISED - LP 07/01/2015 USER NAME = footemj DESIGNED - LP/IP DRAWN - LP REVISED -PLOT SCALE = 50.0000 ' / in. CHECKED -REVISED PLOT DATE = 3/4/2019 **-** 10/01/2014 REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DIS	TRICT O	NE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
MAST ARM	MOUN	ITEN STE	EFT NA	ME SIGNS	374	21-00203-00-TL	COOK	44	26
IVIAGI AIIIVI	IVIOUI	IILD 311	ILLI IVA	NIVE SIGNS		TS-02	CONTRACT	NO.61J	39
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



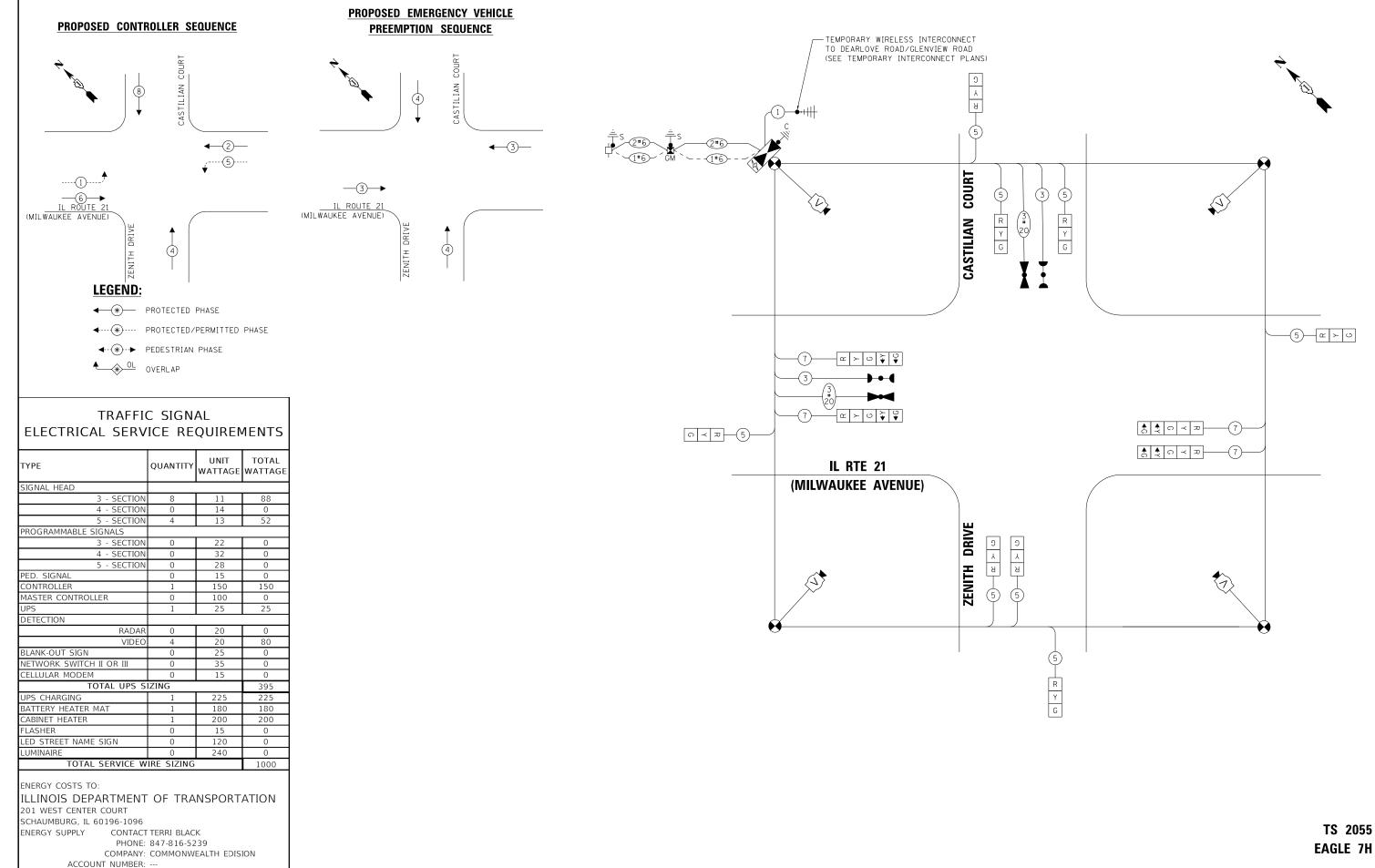


REVISED

CONTRACT NO. 61J39

NO.10





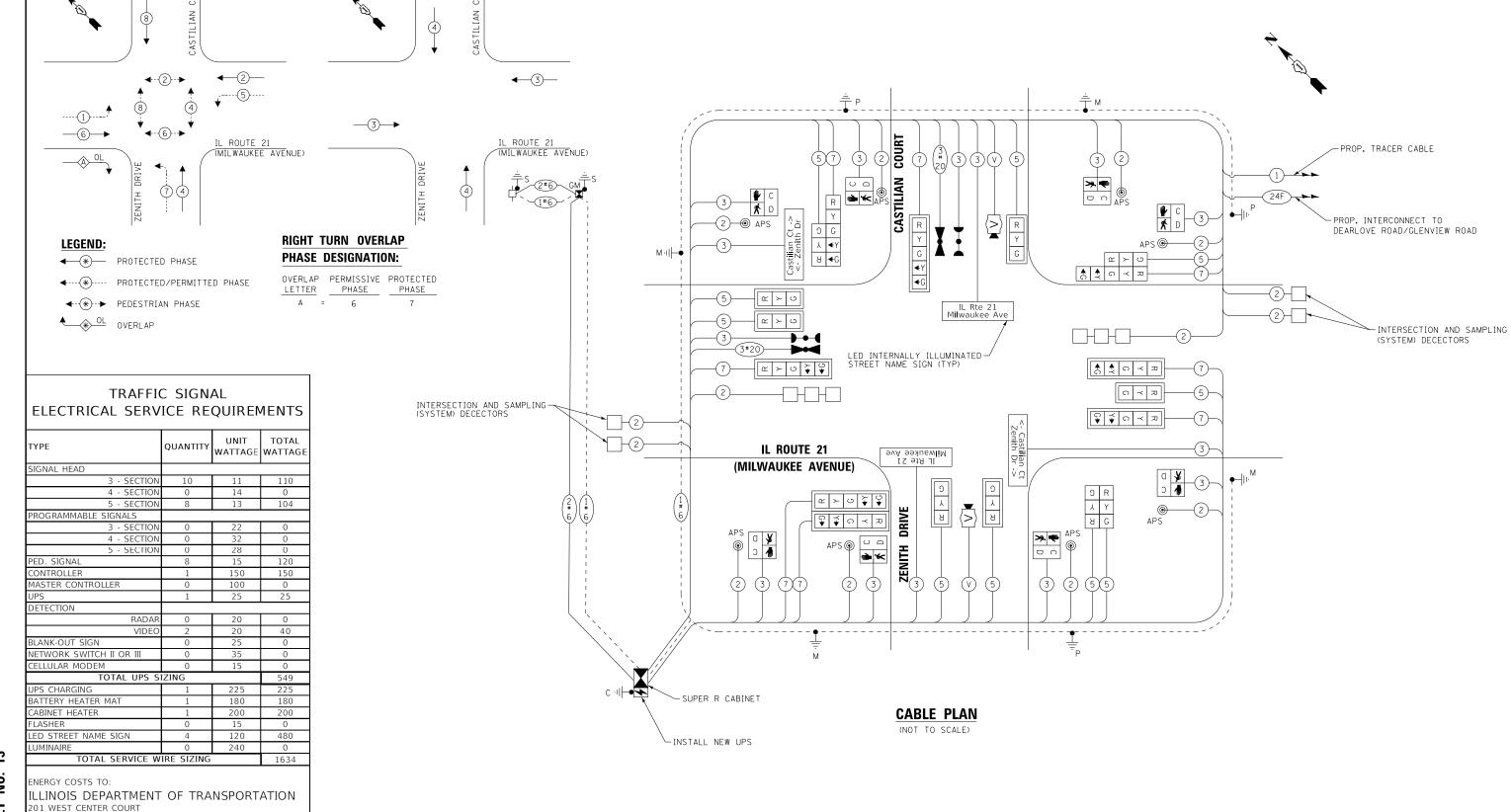
BAXTER WOODMAN

DESIGNED - GJF REVISED DRAWN - KAR REVISED LOT SCALE = 20.0000 ' / in. CHECKED - JBT REVISED PLOT DATE = 8/10/2023 FILE - 212221 PH2 SHT-TS-Temp Cable Plan 01.don - 08-03-2023

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE MILWAUKEE AVENUE (IL 21) AT ZENITH DR / CASTILIAN CT SHEET 1 OF 1 SHEETS STA.

COUNTY TOTAL SHEET NO.

COOK 44 29 SECTION 21-00203-00-TL CONTRACT NO. 61J39



PROPOSED EMERGENCY VEHICLE

PREEMPTION SEQUENCE

PROPOSED CONTROLLER SEQUENCE

<u>8</u> Z

SCHAUMBURG, IL 60196-1096

BAXTER WOODMAN

ACCOUNT NUMBER:

CONTACT TERRI BLACK

PHONE: 847-816-5239 COMPANY: COMMONWEALTH EDISION

PLOT DATE = 8/10/2023

ENERGY SUPPLY

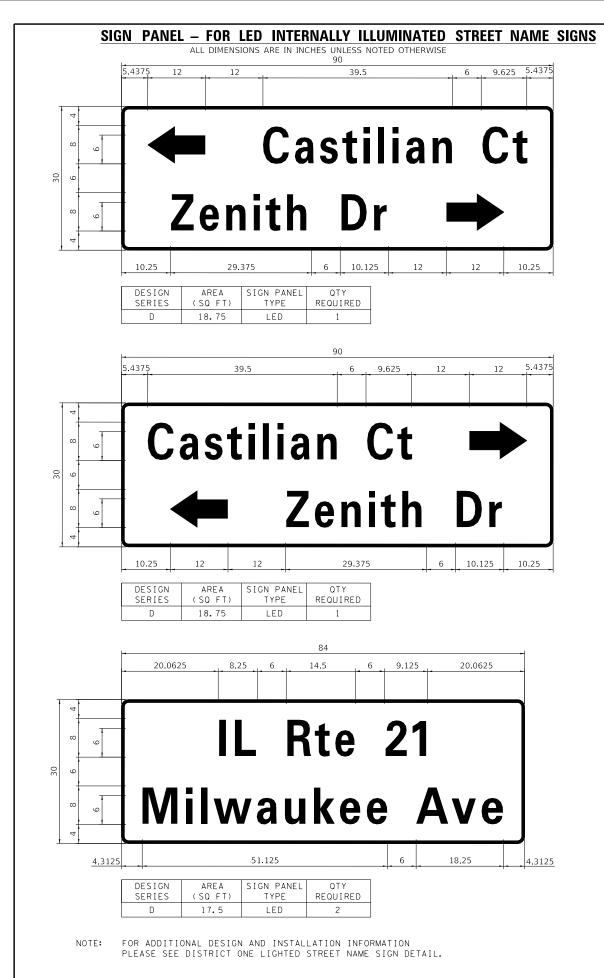
EAGLE 7H

TS 2055

DESIGNED - GJF REVISED SECTION COUNTY CABLE PLAN, PHASE DESIGNATION DIAGRAM, STATE OF ILLINOIS DRAWN - KAR REVISED COOK 44 31 374 21-00203-00-TL AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CHECKED - JBT REVISED DEPARTMENT OF TRANSPORTATION CONTRACT NO. 61J39 SHEET 1 OF 1 SHEETS STA. FILE - 212221 PH2 SHT-TS-Cable Plan 01.dgr - 08-03-2023

BAXTER WOODMAN

PLOT DATE = 8/10/2023



DESIGNED - GJF

DRAWN - KAR

CHECKED - JBT

DATE - 08-03-2023

REVISED

SCHEDULE OF QUANTITIES

ITEM DESC	CRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.		FOOT	780
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.		FOOT	75
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.		FOOT	433
HANDHOLE		EACH	4
HEAVY-DUTY HANDHOLE		EACH	2
DOUBLE HANDHOLE		EACH	2
PAINT NEW TRAFFIC SIGNAL POST		EACH	3
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT		EACH	2
PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER		EACH	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C		FOOT	1251
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C		FOOT	1849
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C		FOOT	1811
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C		FOOT	1528
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR		FOOT	2047
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 FAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C		FOOT	167
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	ONDLICTOR NO. C.4.C.		
,	DINDUCTOR, NO. 6 TC	FOOT	875
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.		EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.		EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	ADMO 44 ET AND 64 ET	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST	ARMS, 44 FT. AND 34 FT.	EACH	1_
CONCRETE FOUNDATION, TYPE A		FOOT	16
CONCRETE FOUNDATION, TYPE C		FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER		FOOT	14
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER		FOOT	38
DRILL EXISTING HANDHOLE		EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNT		EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNT	ED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNT	ED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNT	TED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUN	ITED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLAST	TIC	EACH	12
INDUCTIVE LOOP DETECTOR		EACH	6
DETECTOR LOOP, TYPE I		FOOT	346
K LIGHT DETECTOR		EACH	2
K LIGHT DETECTOR AMPLIFIER		EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION		EACH	1
REMOVE EXISTING SERVICE INSTALLATION		EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		EACH	1
REBUILD EXISTING HANDHOLE		EACH	1
REMOVE EXISTING HANDHOLE		EACH	5
REMOVE EXISTING DOUBLE HANDHOLE		EACH	1
REMOVE EXISTING CONCRETE FOUNDATION		EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CA	BLE NO 20.3/C	FOOT	542
LED INTERNALLY ILLUMINATED STREET NAME SIGN	BLE, 140. 20 0/0	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABIN	ET (SDECIAL)	EACH	1
SERVICE INSTALLATION. GROUND MOUNTED. METERED	LT (SFLOKL)	EACH	1
,			
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH		EACH	2
EXPLORATION TRENCH (SPECIAL)	44.0T.4.DMO. 4. UNIDED 40. FEET 4. OVED 40. FEET	FOOT	20
PAINT NEW MAST ARM ASSEMBLY AND POLE WITH DUAL N	MAST AKIVIS, T-UNDEK 40 FEET, T-UVEK 40 FEET	EACH	1_
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)		EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS		EACH	8
C DECORATIVE BASE FOR COMBINATION MAST ARM ASSEM	BLY AND POLE	EACH	4
DECORATIVE BASE FOR TRAFFIC SIGNAL POST		EACH	3
TEMPORARY TRAFFIC SIGNAL TIMING		EACH	1_
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14	3C. TYPE SOOW	FOOT	754

* NOMINAL QUANTITY TO BE USED AT THE DIRECTION OF THE ENGINEER

SCALE: NTS

 \star \star 100% of cost to the village of Glenview

TREVISED -	
REVISED -	STATE OF ILLINOIS
REVISED -	DEPARTMENT OF TRANSPORTATION
FILE - 212221 PH2 SHT-TS-Mast Arm Signs 01.dgn	

MAS	T ARN	l N	/10UI	NTE	D STR	EET NA	AME SIGNS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
AND SCHEDULE OF QUANTITIES							374	21-00203-0	0-TL	COOK	44	32	
AND SCHEDOFE OF MONITHES											CONTRACT	NO. 6	51J39
ITS	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILL	INOIS FED.	AID PROJECT		

DEPARTMENT OF TRANSPORTATION

FROM ZENITH DR / CASTILIAN CT TO DEARLOVE RD / GLENVIEW RD SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

CONTRACT NO. 61J39

LOT SCALE = 50.0000 ' / in.

PLOT DATE = 8/10/2023

CHECKED - JBT

- 08-03-2023

REVISED

FILE - 212221 PH2 SHT-TS-Temp Interconnect Plan 01.do

SHEET NO. TS

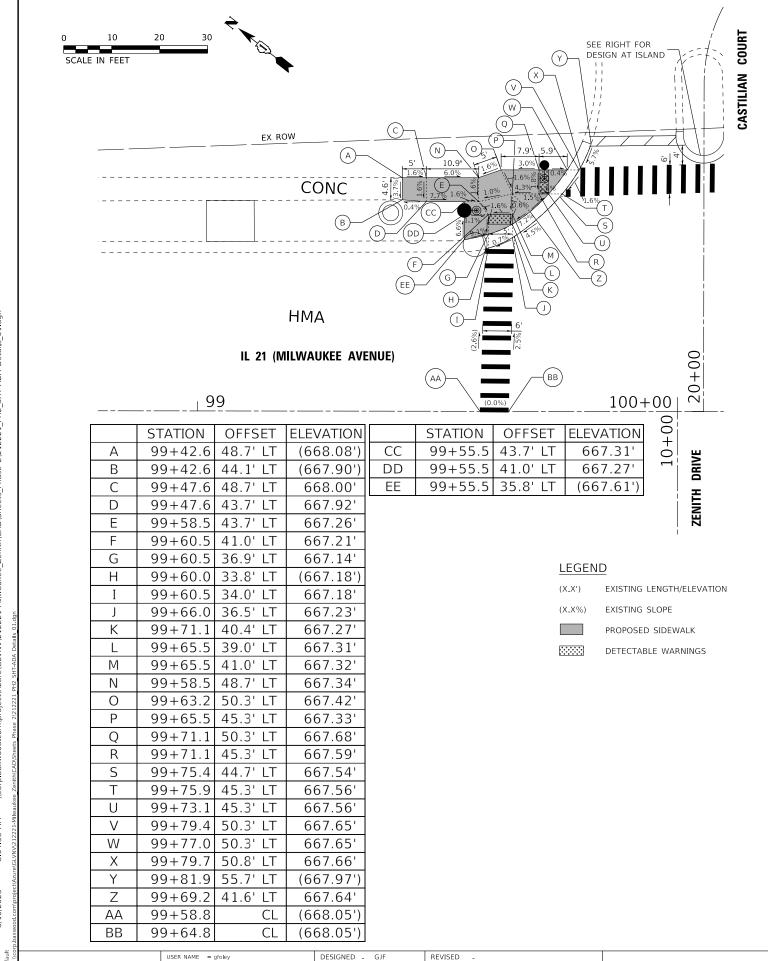
PLOT DATE = 8/10/2023

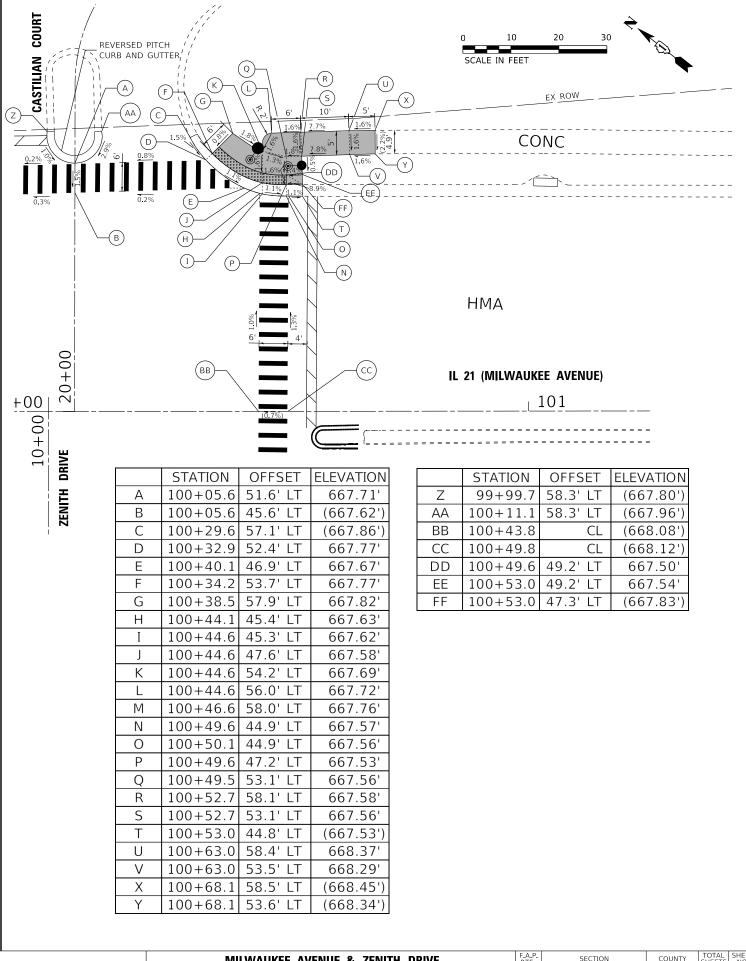
DATE

- 08-03-2023

FILE - 212221 PH2 SHT-TS-Interconnect Schematic 01.dg

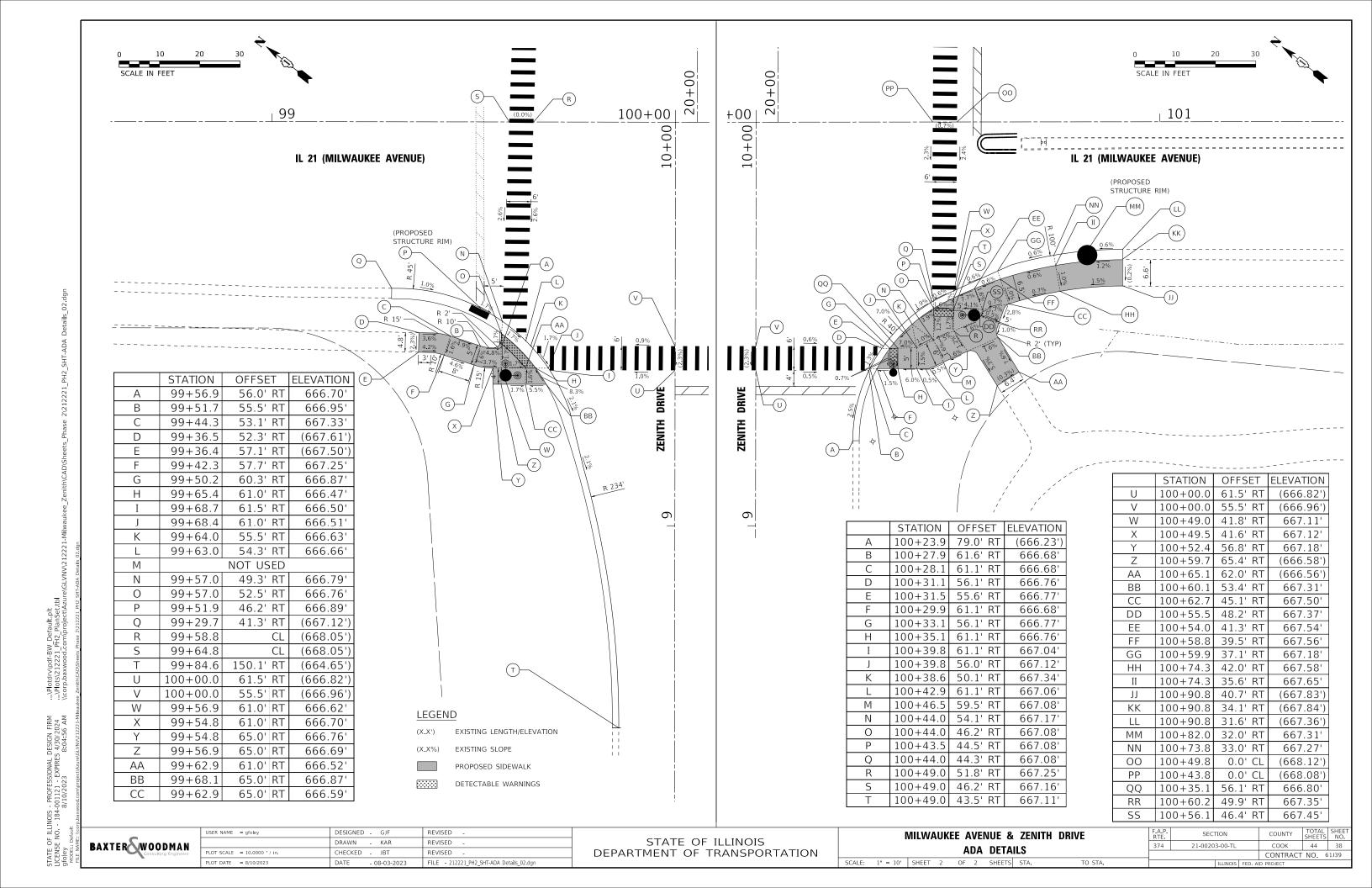
SHEET 1 OF 1 SHEETS STA.

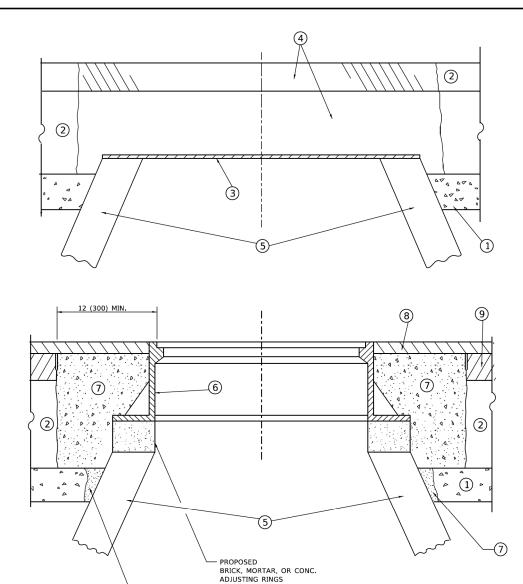




BAXTER WOODMAN

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

...\Plotdrv\pdf-8W_Default.plf ...\Plots\21222LPH2_PlanSet.tb ?' vavy sissys-Milwaykee | Ferith

- 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.
- THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS*PP-1 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

<u>LEGEND</u>

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

LOCATION OF STRUCTURES

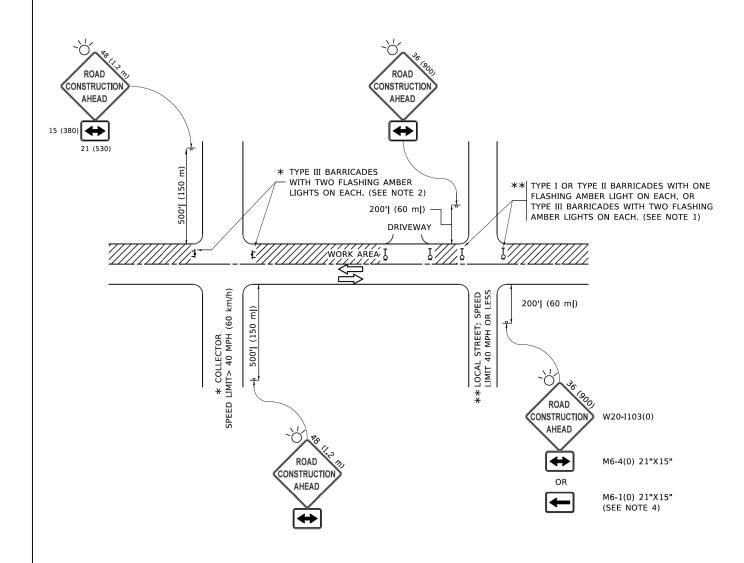
THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- 1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 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

REVISED - R. BORO 01-01-07 JSER NAME = Lawrence.DeManche DESIGNED - R. SHAH **DETAILS FOR** DRAWN REVISED - R. BORO 03-09-11 STATE OF ILLINOIS 21-00203-00-TL COOK 44 39 FRAMES AND LIDS ADJUSTMENT WITH MILLING LOT SCALE = 100.0000 ' / in. CHECKED REVISED - R. BORO 12-06-11 **DEPARTMENT OF TRANSPORTATION** BD600-03 (BD-08) CONTRACT NO. 61J39 SHEET 1 OF 1 SHEETS STA. DATE 10-25-94 REVISED - K. SMITH 11-18-22



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).

SCALE: NONE

- 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.

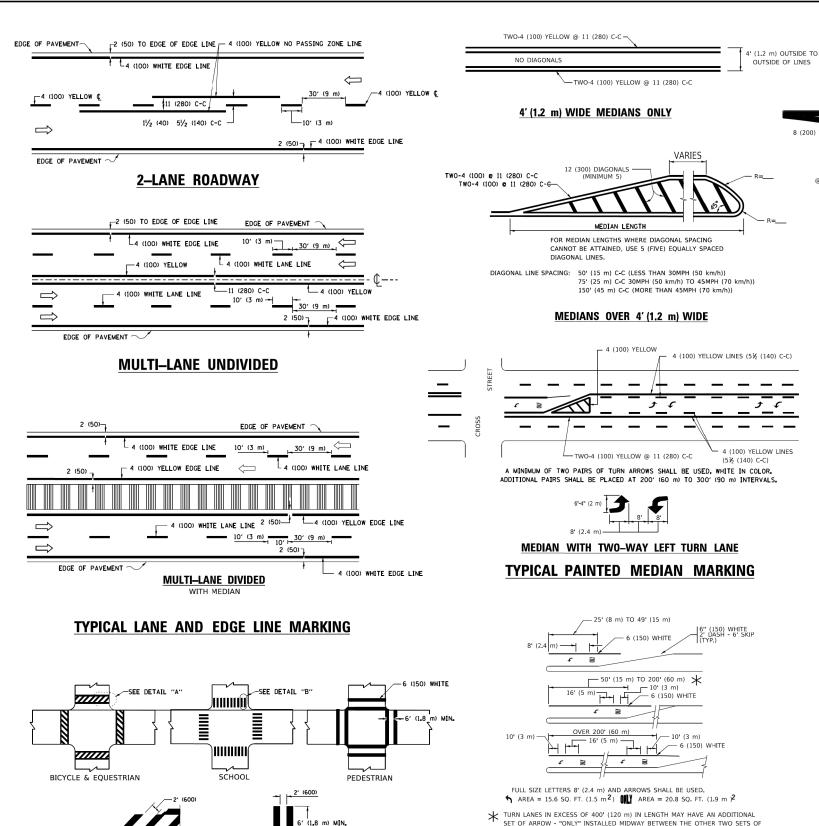
USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH	10-15-96
	DRAWN -	REVISED - T. RAMMACHE	ER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE	07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE	09-15-16

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STATE O	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

	TRAFFIC	C	CONT	ROI	L AND F	ROTEC	CTION FOR	F.A.P. RTE.	SECTION
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F.A.P.	SECTION	COUNTY	TOTAL SHEET	NO.
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TC-10	CONTRACT	NO. 61J39		
ILLINOIS	FED. AID	PROJECT		



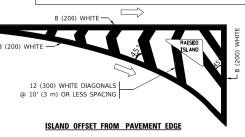
TYPICAL LEFT (OR RIGHT) TURN LANE

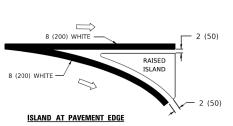
TYPICAL TURN LANE MARKING

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001. SECTION DISTRICT ONE 21-00203-00-TL COOK 44 41 TYPICAL PAVEMENT MARKINGS TC-13 CONTRACT NO.61J39 OF 2 SHEETS STA. SHEET 1 TO STA

30.4 SF

TC-13 IS FOR REFERENCE ONLY PAVEMENT MARKINGS WILL BE COMPLETED UNDER IDOT CONTRACT NUMBER 62N53

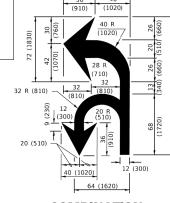




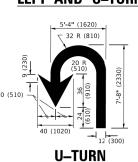
TYPICAL ISLAND MARKING

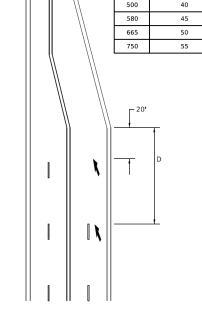
2 ARROW COMBINATION LEFT AND U TURN

SCALE: NONE



COMBINATION LEFT AND U-TURN





SPEED LIMIT

425

LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE 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)2
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO

SOLID

unless otherwise shown.

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USER NAME = footemj DESIGNED - EVERS REVISED - C. JUCIUS 09-09-09 DRAWN REVISED - C. JUCIUS 07-01-13 PLOT SCALE = 50.0000 ' / in. CHECKED REVISED -C. JUCIUS 12-21-15 DATE REVISED -

—12 (300) WHITE

DETAIL "B"

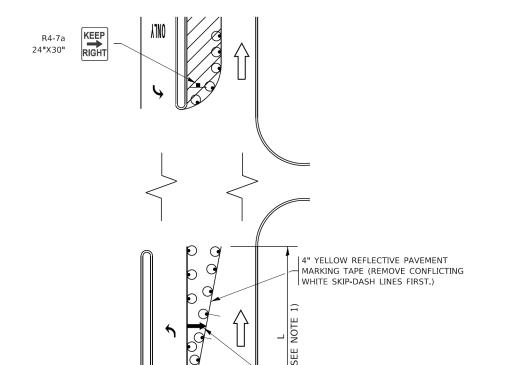
- 6 (150) WHITE

TYPICAL CROSSWALK MARKING

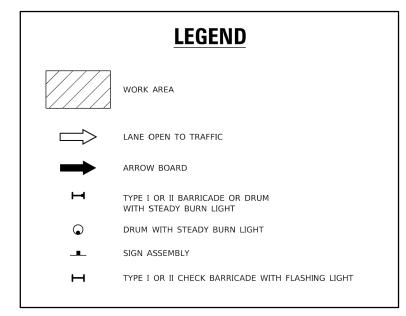
 $m{\star}$ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

DETAIL "A"

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

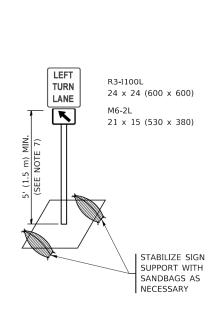


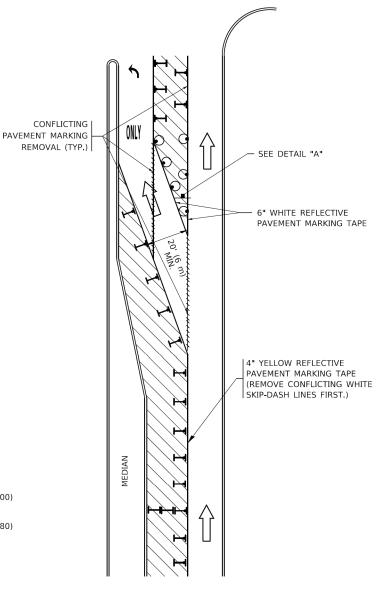
- ARROW BOARD



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" R3-1100R 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 PREOLIREMENTS.
- 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.





DETAIL A

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

FIGURE 2

FIGURE 1

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFI	FIC CO	NT	ROL AN	۱D	PROTEC	TION	AT TURN BAYS	F.A.P. RTE.	
(TO REMAIN OPEN TO TRAFFIC)								374	
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SCALE: NONE	SHEET	1	OF	1	SHEETS	STA.	TO STA.		_

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

374 21-00203-00-TL COOK 44 42

TC-14 CONTRACT NO.61J39

| ILLINOIS | FED. AID PROJECT

s/212221.PH2_PlanSet.tb! \212221-Milwaukee_Zenith\CAD\Sheets_Phase 2\DISTRICT ONE DETAILS - TC.dgn

SEE DETAIL "A" -

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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.

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97				ARTERIAL ROAD		F.A.P.	SECTION	COUNTY	SHEETS	SHEET NO.
	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS					374	21-00203-00-TL	соок	44	43
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION			INFORMATION SIGN			TC-22	CONTRAC	T NO.61	J39
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET 1	OF 1 SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

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LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. NON-PAVED SHOULDER (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNIT DUCT-TRENCHED TO E/P ** (3.0 m) * = (600 mm)

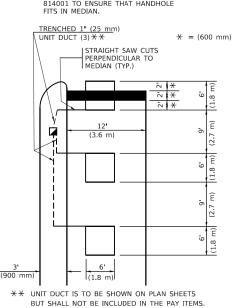
* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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



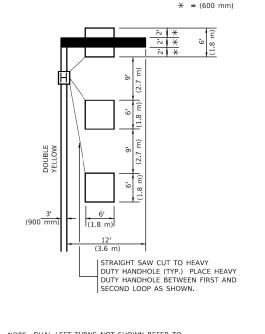
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS

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

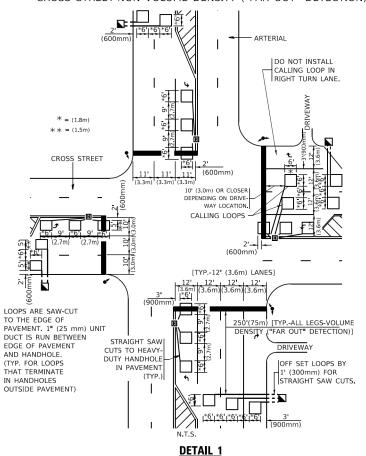
(PROTECTED / PERMITTED LEFT TURN PHASING)



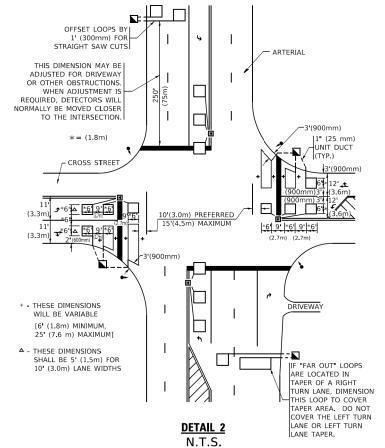
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONF

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



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



NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

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

NOTE:

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

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

USER NAME = footemj DESIGNED -REVISED DRAWN REVISED CHECKED -R.K.F. REVISED PLOT SCALE = 50.0000 ' / in. PLOT DATE = 3/4/2019 DATE REVISED -

N.T.S.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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