06-12-2015 LETTING ITEM 186

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

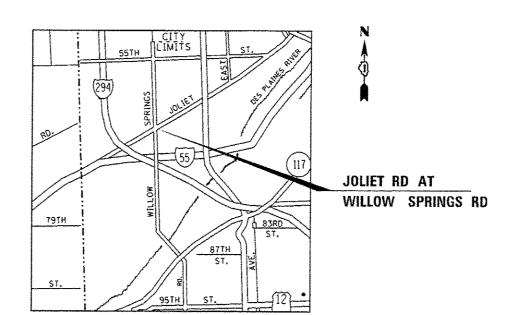
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU ROUTE 3562: JOLIET ROAD AT WILLOW SPRINGS ROAD SECTION 430Y-TS(14)

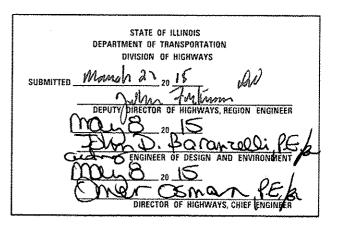
TRAFFIC SIGNAL MODERNIZATION COOK COUNTY

C-91- 334-14



D-91-441-





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATIONS:

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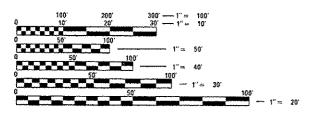
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JOLIET RD- OTHER PRINCIPAL ARTERIAL 2010 ADT: 18,300

POSTED SPEED LIMIT: 40 MPH

THE PROJECT IS LOCATED IN THE VILLAGE OF COUNTRYSIDE AND COOK COUNTY.



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER: SHAR-DAY SMITH
PROJECT MANAGER: SUDUD MAHMOUD (847) 708-4420

CONTRACT NO. 60Y20

INDEX OF SHEETS

SHEET NO. DESCRIPTION STD. NO. STOLIND. TITLE 1 COVER SHEET 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 2 INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES 001001-02 AREAS OF REINFORCEMENT BARS 3 - 6 SUMMARY OF QUANTITIES 001006 DECIMAL OF AN INCH AND OF A FOOT 7 - 14 DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05) OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE 701101-04 TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN 701106-07_ OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY JOLIET RD AND WILLOW SPRINGS RD. 701421-07 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY. FOR SPEEDS >= 45 MPH TO 55 MPH TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 701426-07 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS >= 45 MPH JOLIET RD AND WILLOW SPRINGS RD. 701601-09 URBAN LANE CLOSURE, MULTILANE, IW OR 2W WITH NONTRAVERSABLE MEDIAN 17 TRAFFIC SIGNAL MODERNIZATION PLAN JOLIET RD AND WILLOW SPRINGS RD. URBAN LANE CLOSURE, MULTILANE INTERSECTION 701701-09 SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 701901-04 TRAFFIC CONTROL DEVICES JOLIET RD AND WILLOW SPRINGS RD. 720001-7/ SIGN PANEL MOUNTING DETAILS TEMPORARY INTERCONNECT PLAN 720006-04 SIGN PANEL ERECTION DETAILS 805001-0/ ELECTRICAL SERVICE INSTALLATION DETAILS TEMPORARY INTERCONNECT SCHEMATIC 814001-03 HANDHOLES 22-24 INTERCONNECT PLANS 814006-02 DOUBLE HANDHOLES 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES INTERCONNECT SCHEMATIC 862001-*01* UNINTERRUPTABLE POWER SUPPLY (UPS) 873001-07 TRAFFIC SIGNAL GROUNDING & BONDING ARTERIAL ROAD INFORMATION SIGN (TC-22) 877001-05 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) 878001- i0 CONCRETE FOUNDATION DETAILS 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION 880006- 01 TRAFFIC SIGNAL MOUNTING DETAILS

HIGHWAY STANDARDS

886001-01 OETECTOR LOOP INSTALLATIONS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK,

IT SHALL BE THE CONTRACTOR'S RESPONSBLITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFING THE MAST ARMS LENGTHS.

THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL, "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL COVERNMENT AGENCIES AND IDOT.

ALL TRAFFIC SIGNAL BACKPLATES SHALL HAVE RETROREFLECTIVE SHEETING APPLIED TO THE OUTSIDE PERIMETER OF THE FACE OF THE BACKPLATE.

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c:\pw.work\pw:dot\amithav\d8334658\P!\$4°	12-sht-saidgn	DRAWN .	•	\$\$	REVISED	
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	PLOT DATE + 3/25/2015	DATE .		03/20/2015	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

-	isinev.	INDEX OF CHEETE HICHMAN CTANDADDS O CENEDAL MOTES		RTE.	SECTION				
***************************************	INUEX			3562	430Y-T\$(14)				
***************************************	SCALE: NONE	SHEET NO.	OF	SHEETS	STA	70.5	. Ta	┪——	ly barren

COUNTY TOTAL SHEET NO.

COOK 27 2

CONTRACT NO. 60Y20

			- Construction	CONSTRUCTION CODE					
<u>[</u>			The state of the s	100% STATE TRAFFIC SIGNALS	100% STATE INTERCONNECT	100 % PLEASEANTVIEW FIRE DEPARTMENT EVP			
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN	0021 URBAN	0021 URBAN			
66900200	NON-SPECIAL WASTE PISPOSAL	CU YD	15	15					
67000400		CAL MO	6	6					
66900460	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
	MOBILIZATION	L SUM	***	· Port					
66900530	SOIL DISPOSAL ANALYSIS	EACH	/	,					
70100310		L SUM	1	1					
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM		1					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
72000100	SIGN PANEL - TYPE I	50 FT	13.5	13. 5					
72000200	SIGN PANEL - TYPE 2	SQ FT	24	24					
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1	1					
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1038	1022	16				
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	79	79					
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	164	164					
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	399	399					
81400100	HANDHOLE	EACH	6	6					

| DESIGNED - SS | | DRAWN - SS | CHECKED - JC | DATE - 03/20/2015 REVISED -FILE NAME : USER NAME = smithsy ci\pw.work\pwidot\amithav\d8334658\PI5492-sht-ts.dgn PLOT SCALE = 189.8888 1/ 19.
PLOT DATE = 3/25/2015 REVISED -REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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		(SI	IEET 1 OF	4)		
SCALE: NONE	SHEET NO.	OF	SHEETS	STA.	to	STA

#Specialty Hems
| F.A.P. | SECTION | CC |
| 3562 | 430Y-T5(14) | C SECTION COUNTY TOTAL SHEET NO.

10Y-TS(14) COOK 27 3

CONTRACT NO. 60Y20

| LLINOIS FED. AID PROJECT

			-		CONSTRUCTION CODE	
						100 % PLEASEANTVIEW
		·		100% STATE	100% STATE	FIRE DEPARTMENT
CODE			TOTAL	TRAFFIC SIGNALS	INTERCONNECT	EVP
NO.	ITEM	UNIT	QUANTITY	0021	0021	0021
				URBAN	URBAN	URBAN
81400200	HEAVY-DUTY HANDHOLE	EACH	4	4		
		,		117		
81400300	DOUBLE HANDHOLE	EACH	2	2		
		· And the state of		The state of the s		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	Topow Property Control of the Contro	Av 1110000000000000000000000000000000000	1	
		And the state of t				
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6430		6430	
		Waterman A Street		To the state of th	· · · · · · · · · · · · · · · · · · ·	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	427		· · · · · · · · · · · · · · · · · · ·	427
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2564	2564	· · · · · · · · · · · · · · · · · · ·	
		And the second s				770
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1830	1830		
		PARTY CONTRACTOR CONTR			-	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3096	3096		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	180	180		
			TANK TANK TANK TANK TANK TANK TANK TANK			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10	FOOT	1, 256	1, 256		
		and the same of th				
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4	4 .	······································	4.00
87700210	STEEL MAST ARM ASSEMBLY AND POLE. 34 FT.	EACH	1	1	······································	
		- Anto-demokratic demokratic	and the same of th			45-00-00-00-00-00-00-00-00-00-00-00-00-00
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	3	3		1

15

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

(SHEET 2 OF 4)

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

CONSTRUCTION CODE

				100% STATE	100% STATE	100 % PLEASEANTVIEW FIRE DEPARTMENT
T			1	TRAFFIC SIGNALS	INTERCONNECT	EVP
CODE	ITEM	UNIT	TOTAL	0021	0021	0021
NO.	4 1 2 10		QUANTITY	URBAN	URBAN	URBAN
				unda.		3.0.0.1
	OCCUPATION THOSE A	5007				
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	16		
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4	-	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	44	44		
87900200	DRILL EXISTING HANDHOLE	EACH	1	1		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7	7		
88030050	SIGNAL HEAD, LED, 1-FACE. 3-SECTION, BRACKET MOUNTED	EACH	4	4		
						
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4	. 4		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4	4		
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	-	11		
00500100	INDUCTIVE LOOP DETECTOR	EACH	12	12		
88500100	AND COLINE COOP DESECTOR	CACH	14			
88600100	DETECTOR LOOP, TYPE I	FOOT	576	576		111111111111111111111111111111111111111
88600100	beleeton coor, the t		310	3:0		
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	Anna de la constante de la con	1		
2333100			*	-		****
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	. 3			3
			-			
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	4			1
			-			-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 3 OF 4)

SCALE: NONE | SHEET NO. OF SHEETS | STA.

TO STA.

CONSTRUCTION CODE

100 % PLEASEANTVIEW 100% STATE 100% STATE FIRE DEPARTMENT TRAFFIC SIGNALS INTERCONNECT CODE TOTAL ITEM UNIT 0021 0021 0021 QUANTITY NO. URBAN URBAN URBAN REMOVE ELECTRIC CABLE FROM CONDUIT FOOT 12,439 89502300 12, 439 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 89502375 1 1 REMOVE EXISTING HANDHOLE EACH 89502380 8 8 89502385 REMOVE EXISTING CONCRETE FOUNDATION 9 9 EACH FOOT 427 X0324085 427 EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C X0324599 ROD AND CLEAN EXISTING CONDUIT 12009 12009 FOOT EACH X8620200 1 1 UNINTERRUPTABLE POWER SUPPLY, SPECIAL 6430 FIBER OPTIC CABLE IN CONDUIT. NO. 62,5/125, MM12F SM24F 6430 102.8 Z0030850 EACH 102.8 TEMPORARY INFORMATION SIGNING 1 Z0033056 RE OPTIMIZTION TRAFFIC SIGNAL SYSTEM LEVEL 2 EACH EACH Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING 1 EACH 89502382 REMOVE EXISTING DOUBLE HANDHOLE 1 EACH 3 3 X8130125 REMOVE JUNCTION BOX EACH 1 1 × X1400081 FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET, (SPECIAL)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

(SHEET 4 OF 4)

SCALE; NONE SHEET NO. OF SHEETS STA.

TO STA.

CONSTRUCTION CODE

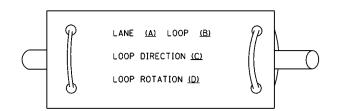
TRAFFIC SIGNAL LEGEND

ITEM	DEMOVAL	EVICTING	PROPOSER	ITEM	DEMOVAL	EVICTING	DDADAEED	ITEM	DEMOVAL	EVICTING	PDODOSED
ITEM CONTROLLED CARINET	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL R ≪	EXISTING	PROPOSED	ITEM ELECTRIC CABLE IN CONDUIT, TRACER,	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	\boxtimes "	\boxtimes		EMERGENCY VEHICLE LIGHT DETECTOR		\bowtie	•	NO. 14 1/C, UNLESS NOTED OTHERWISE			<u> </u>
RAILROAD CONTROL CABINET	R			CONFIRMATION BEACON	R _o _()	o-()	H	COAXIAL CABLE		<u> </u>	— <u>c</u> —
COMMUNICATIONS CABINET	cc ^	ECC	СС	HANDHOLE	R □					,	O
MASTER CONTROLLER		EMC	MC	HEAVY DUTY HANDHOLE	R	Н	H	VENDOR CABLE FOR CAMERA		—	— <u>v</u> —
MASTER MASTER CONTROLLER	R UPS	EMMC EUPS	MMC UPS	DOUBLE HANDHOLE	R N		<u> </u>	COPPER INTERCONNECT CABLE,			
UNINTERRUPTABLE POWER SUPPLY SERVICE INSTALLATION,				JUNCTION BOX	R O	٥	0	NO. 18 3 PAIR TWISTED, SHIELDED		<u> </u>	 6
(P) POLE OR (G) GROUND MOUNT	-□- ^R	-□ ^P	-■ P	UNDERGROUND CONDUIT,		٧		FIBER OPTIC CABLE NO. 62.5/125, MM12F		— <u>(12F</u>)—	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	FI	GALVANIZED STEEL (UC) TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		— <u>Ç</u> 4F)—	—(24F)—
STEEL MAST ARM ASSEMBLY AND POLE	R O	0	•	AND CABLE						·	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R O	0		COMMON TRENCH			ст	FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		—ggs—	—36F—
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	^R O-≭	0-≭——	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	GROUND ROD AT (C) CONTROLLER,		^C ₁ ├ ─•	¢⊩
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ 1	Q	●	INTERSECTION ITEM		I	IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		'II 0	'II
SIGNAL POST	R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	O R⊗	8	•	RELOCATE ITEM	RL			. SS. ION TO BE REMOTED			
BETTER) 45 FOOT (13.7m) MINIMUM GUY WIRE	⊗ > r	>	>	ABANDON ITEM 12" (300mm) TRAFFIC SIGNAL SECTION	Α	R	R	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
SIGNAL HEAD	R A		-►					ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)	>		→ ²	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		(A)		STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
SIGNAL HEAD WITH BACKPLATE	+C^R	+>	+-			R	R	FOUNDATION TO BE REMOVED	0 -x		
SIGNAL HEAD OPTICALLY PROGRAMMED	R - (> "P"	- (> "p"	— > "P"	SIGNAL FACE			G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF O		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O- (> 'F''	o⇔" ^F "	●→ "F"				← Y ← G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
PEDESTRIAN SIGNAL HEAD	R -[]	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	©	©	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y G	QUEUE DETECTOR		- -	0
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	@ APS	"RB" INDICATES REFLECTIVE BACKPLATE		(P)	← Υ ← G			1 <u>0</u> 1	
ILLUMINATED SIGN	R (Sa)	6	6				"P"	PREFORMED QUEUE DETECTOR		<u>iPoi</u>	PO
"NO LEFT TURN"	(5)	©	•	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		FIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"		\bigcirc	(12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		- →	PS
DETECTOR LOOP, TYPE I		r -,		INTERNATIONAL SYMBOL, OUTLINED				THE CHARLE SAMILETTO (STSTEM) DETECTOR		Î _{PS} Î	<u>[' 3]</u>
PREFORMED DETECTOR LOOP		 P -	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			*	RAILROAD	SYMBO	OLS	
MICROWAVE VEHICLE SENSOR	R M)	₩¤ *-*	 :	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C C	₽C *D			<u>EXISTING</u>	PROPOSED
VIDEO DETECTION CAMERA	^R [∑]3	[V]	()	RADIO INTERCONNECT	 0	 + 0	 +•	RAILROAD CONTROL CABINET		<u>=====================================</u>	<u></u>
VIDEO DETECTION ZONE				MADIO INTERCONNECT	- 1111- O	-∏III-O	II II.	RAILROAD CANTILEVER MAST ARM	•	— X OX — X X	X 0 X — X
	Р		111111	RADIO REPEATER	RERR	ERR	RR		•		
PAN, TILT, ZOOM CAMERA	r [PZ]	PT21	₱ 72¶	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		-5-	— ⑤—	FLASHING SIGNAL		20 2	XOX
WIRELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		~	<u> </u>	CROSSING GATE		202 >	X0X
WIRELESS ACCESS POINT	R →			CROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			1)	CROSSBUCK		*	*
FILE NAME : USER NAME : smithsv		SIGNED - SS	REVISED -	CTATE	OF ILLINOIS	<u> </u>		DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY TOTAL SHE
c:\pw_work\pwidot\smithsv\d0334658\P154912-sht-ts.dgn PLOT SCALE = 100.0000 '/		RAWN - SS IECKED - JC	REVISED -	DEPARTMENT		_		STANDARD TRAFFIC SIGNAL DESIGN DETAILS	3562	430Y-TS(14) TS-05	COOK 26 7

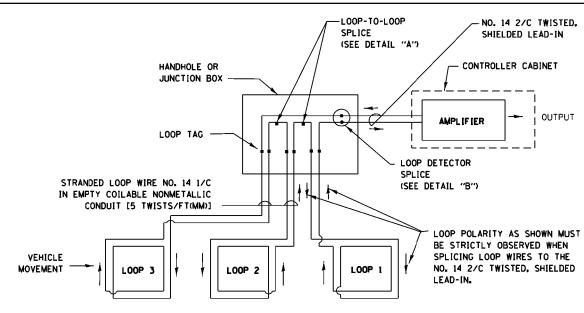
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

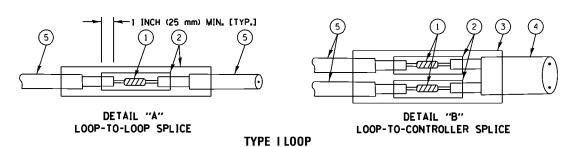


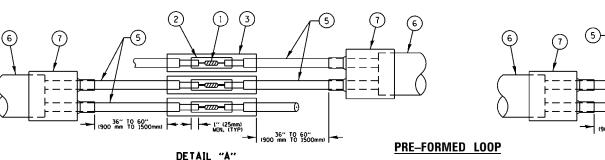
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP "1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

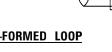


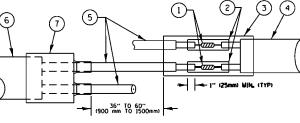
DETECTOR LOOP WIRING SCHEMATIC

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









DETAIL "B"

LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

LOOP-TO-LOOP SPLICE

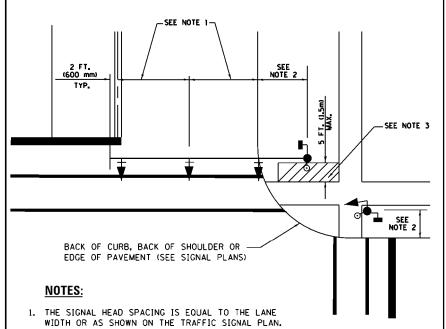
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- TL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

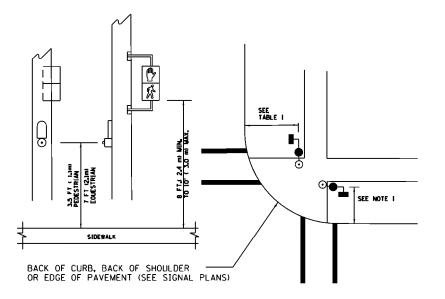
	DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	3562	430Y-TS(14)	соок
			TS-05	CONTRACT
ı	SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	D PROJECT

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



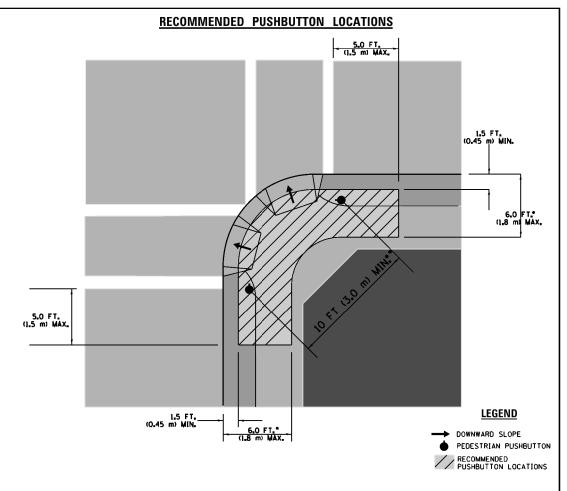
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES

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

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

COMBINATION CONCRETE CURB AND GUTTER SHOULDER/NON-CURBED AREA (MINIMUM (MINIMUM DISTANCE FROM BACK OF CURB TO DISTANCE FROM EDGE OF PAVEMENT TRAFFIC SIGNAL EQUIPMENT CENTERLINE OF FOUNDATION) TO CENTERLINE OF FOUNDATION) 6 FT (1.8m) SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) TRAFFIC SIGNAL MAST ARM POLE 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) 4 FT (1,2m) PEDESTRIAN PUSHBUTTON POST SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) 6 FT (1,8m) TEMPORARY WOOD POLE 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2 SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3. CONTROLLER CABINET SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3. 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2

TRAFFIC SIGNAL EQUIPMENT OFFSET

NOTES:

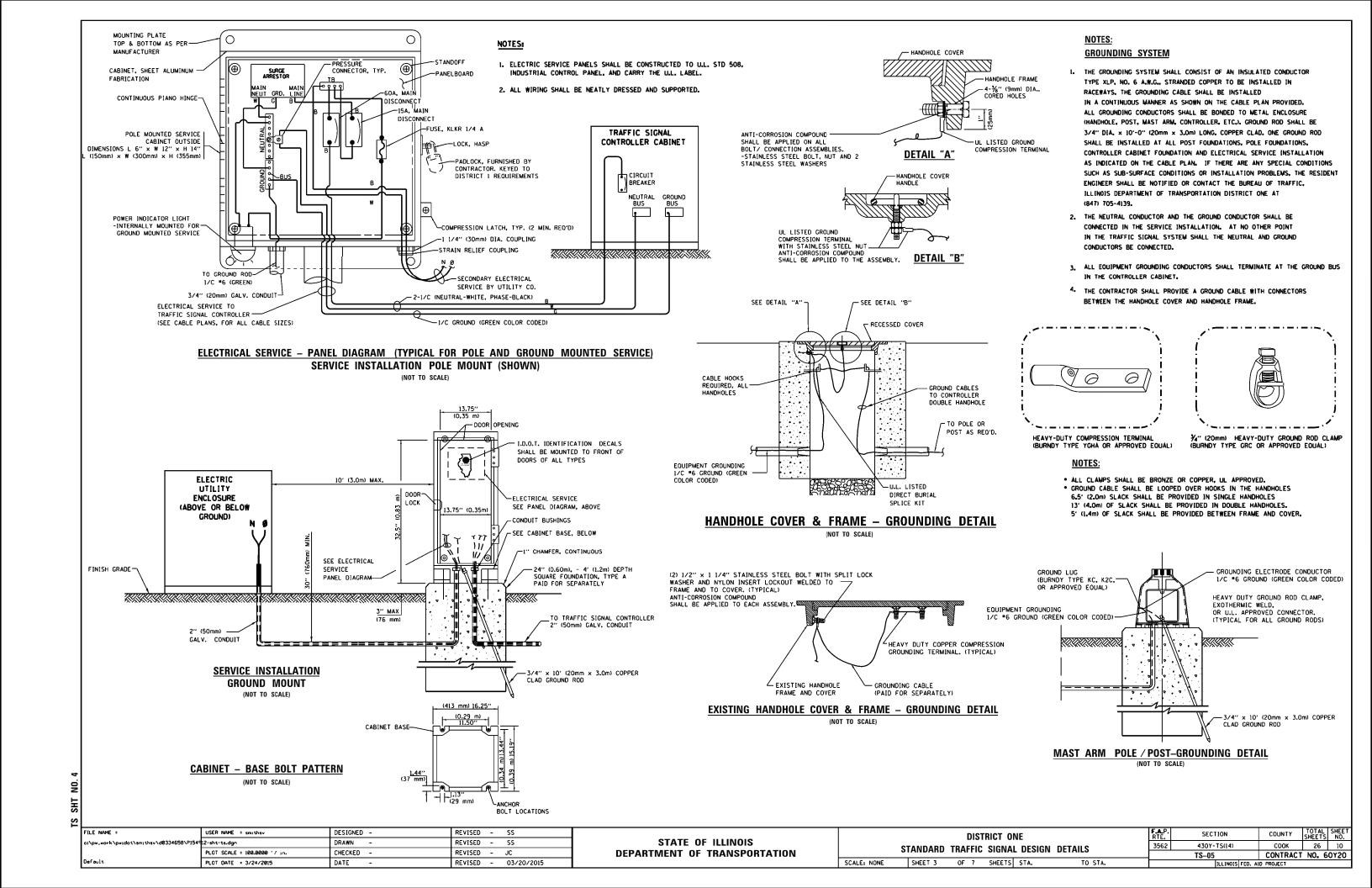
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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

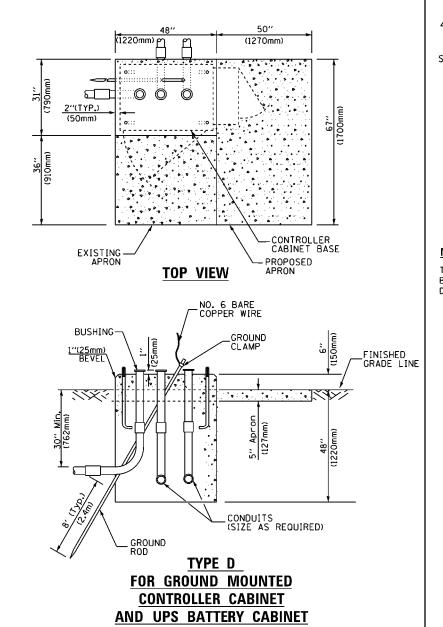
SCALE:

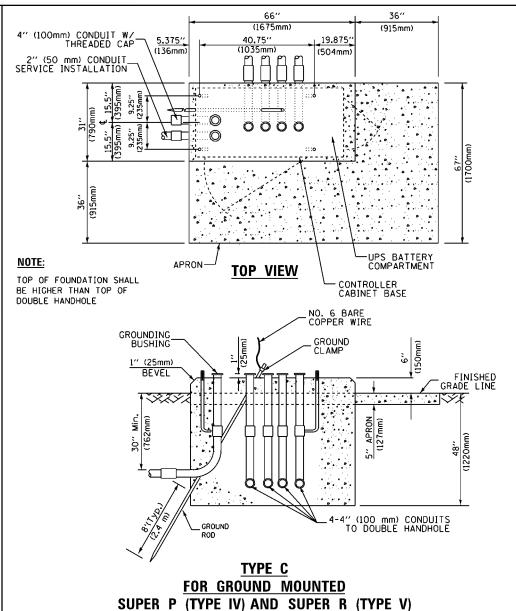
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		3562 430Y-TS(14)		26	9
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT	NO. 6	0Y20
NONE SHEET 3 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

S SHT NO. 3







CONTROLLER CABINETS

(1651mm)	
SEE NOTE 5 49" (SEE NOTE 3) (1245mm)	
(1245mm) 44" 16"	
~ [
21/2"	
(E) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	
© [
2" × 6" (51mm × 152mm) WOOD FRAMING (TYP.)	
(51mm x 152mm) WOOD FRAMING (TYP.)	
E TRAMING TITE.	
TRAFFIC SIGNAL →	
CONTROLLER CABINET	
⅓4" (19mm) TREATED PHYWOOD DECK	
PHIWOUD DECK	
2" v 5" (51mm v 152mm)	
2" × 6" (51mm × 152mm)	
\ \ \ \ \ \ \ \ \ \ \ \ \ \	
12. MIN. (305 mm)	
ELE INI INI INI	
12.19 mm (1.2.19 mm) (1.2.19 m	
86G N	
<u> </u>	
6" × 6" (152mm × 152mm)	
NOTES: TREATED WOOD POSTS	
 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 	

65" (SEE NOTE 4)

- 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

CABLE SLACK

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
-----------------	--------------	--------

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)		

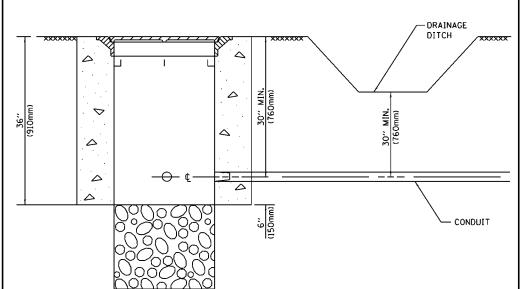
DEPTH OF FOUNDATION

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)

- 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 verifled by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination most 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

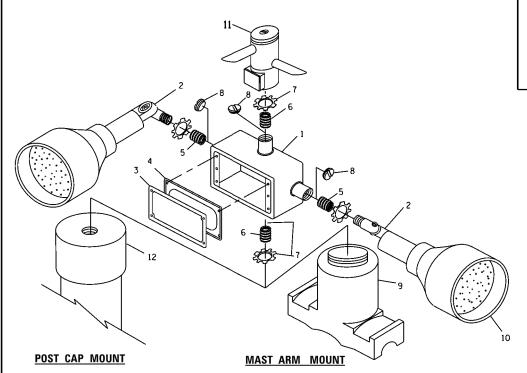
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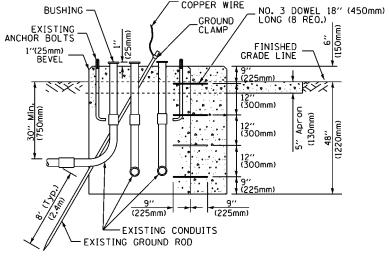
NOTES:

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



| CONTROLLER CABINET BASE | COPPER WIRE | NO. 3 DOWEL 18" (4 EXISTING | EXISTING | CLAMP | CLA



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) CLOSE NIPPLE 7 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.]

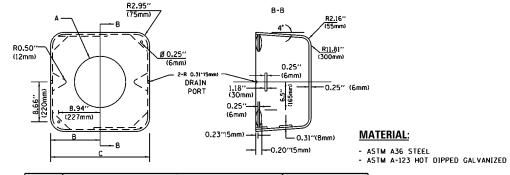
NOTES:

- 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
- POST CAP MOUNT

 MAST ARM MOUNT

 MOUNTING DETAIL

 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.

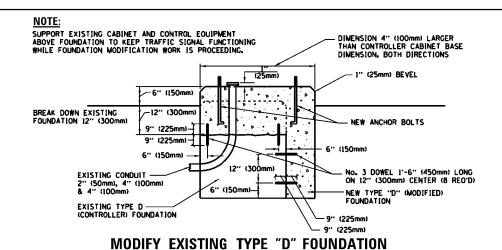


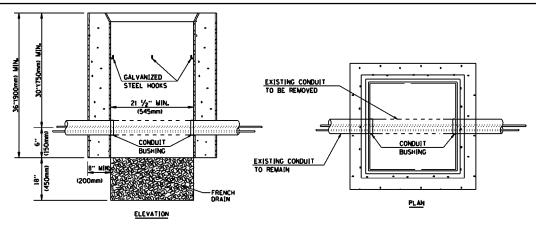
A	В	С	HEIGHT	₩EIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

NOTES:

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





NOTES:

SCALE: NONE

- 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.

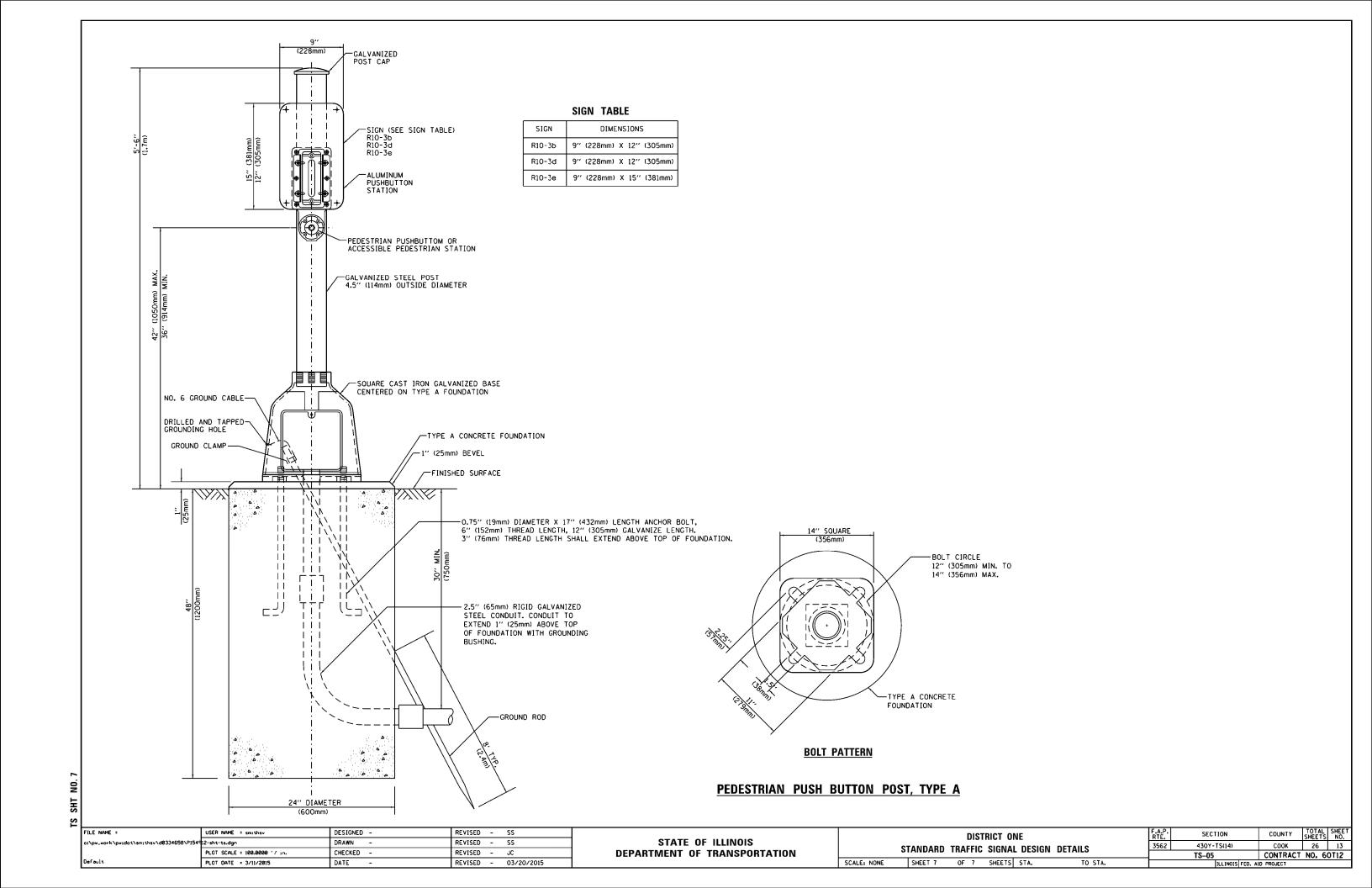
HANDHOLE TO INTERCEPT EXISTING CONDUIT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

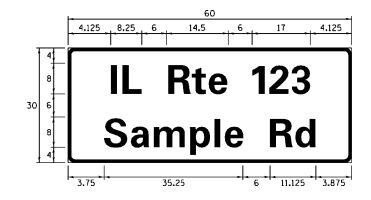
DISTRICT ONE		SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	3562	430Y-TS(14)	COOK	26	12
		TS-05	CONTRACT	NO. 6	0Y20
SHEET 6 OF 7 SHEETS STA. TO STA.		TILL INDIS FED. AL	D PROJECT		

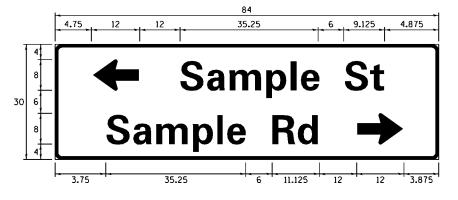
SHT NO. 6



SIGN PANEL - TYPE 1 OR TYPE 2

3.75 35.25 11.125 3.875 Sample Rd





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

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)			
	ADDREVATION	SERIES "C"	SERIES "D"		
AVENUE	Ave	15.000	18. 250		
BOULEVARD	Blvd	17.125	20,000		
CIRCLE	Cir	11.125	13.000		
COURT	C†	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'-O". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", 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 MAXIMUX OF 8'-O" IN WIDTH, IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" 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 THERE IS SPACE AVAILABLE.
- 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

LOCAL SUPPLIERS: PARTS LISTING:

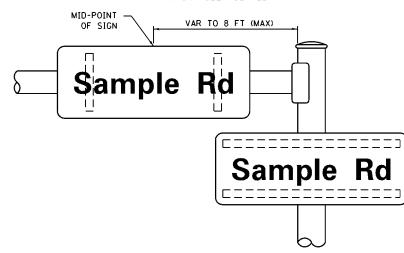
- J.O. HERBERT COMPANY, INC SIGN CHANNEL PART #HPN053 (MED. CHANNEL) MIDLOTHIAN, VA SIGN SCREWS $1/4" \times 14 \times 1"$ H.W.H. *3

SELF TAPPING WITH NEOPRENE WASHER - WESTERN REMAC, INC. BRACKETS PART #HPNO34 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING WOODRIDGE, IL

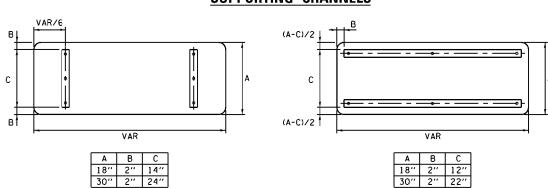
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



SCALE:

STANDARD ALPHABETS SPACING CHART

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

FHWA SERIES "C"				FHWA SERIES "D"				
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (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	E	0.960	4. 962	0.400	
F	0.880	4.082	0.240	F	0.960	4. 962	0.240	
G	0. 720	4. 482	0. 720	G	0.800	5. 446	0.800	
<u> </u>	0.880	4.482	0.880	H	0.960	5. 446	0.960	
I	0.880	1. 120	0.880	I	0.960	1.280	0.960	
J K	0. 240 0. 880	4. 082 4. 482	0.880	J K	0.240 0.960	5. 122 5. 604	0.960	
L	0.880	4. 082	0. 460	L	0.960	4. 962	0. 400	
M	0.880	5. 284	0.880	М	0.960	6. 244	0.960	
N	0.880	4. 482	0.880	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	
0	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	T	0.240	4.962	0.240	
U	0.880	4.482	0.880	U	0.960	5.446	0.960	
٧	0.240	4.962	0.240	٧	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	0.240	5. 122	0.240	Y	0.240	6. 884	0.240	
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400	
0	0.320	3.842	0.640	0	0.400	4. 562	0.720	
С	0.720 0.480	4.082 4.002	0.480	b c	0.800 0.480	4. 802	0.480	
d	0.480	4.082	0. 720	d	0.480	4. 802	0.800	
e	0.480	4. 082	0. 120	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	
ı	0.720	1.120	0.720	I	0.800	1.280	0.800	
m	0, 720	6. 724	0.640	m	0.800	7. 926	0.720	
n	0, 720	4,082	0. 640	n	0.800	4, 722	0.720	
0	0, 480	4,082	0, 480	0	0.480	4, 882	0,480	
P	0.720	4.082	0.480	P	0.800	4. 802	0.480	
q	0. 480 0. 720	4. 082 2. 642	0. 720 0. 160	9	0.480	4. 802 3. 042	0.800	
r s	0. 720	3, 362	0. 160	r s	0. 320	3, 762	0.160	
†	0.080	2, 882	0.080	+	0.080	3, 202	0.080	
U	0,640	4, 082	0.720	u	0.720	4, 722	0.800	
v	0, 160	4, 722	0, 160	v	0.160	5, 684	0.160	
w	0, 160	7, 524	0, 160	w	0.160	9, 046	0.160	
×	0,000	5, 202	0,000	×	0.000	6, 244	0.000	
у	0, 160	4, 962	0, 160	У	0.160	6,004	0.160	
Z	0, 240	3, 362	0, 240	Z	0.240	4,002	0,240	
1	0.720	1.680	0.880	1	0.800	2.000	0.960	
2	0.480	4, 482	0.480	2	0.800	5, 446	0.800	
3	0.480	4, 482	0.480	3	1.440	5, 446	0.800	
4	0, 240	4, 962	0, 720	4	0.160	6,004	0.960	
5	0.480	4, 482	0.480	5	0.800	5.446	0.800	
6 7	0.720	4,482	0, 720	6 7	0.800	5,446	0.800	
8	0, 240	4, 482	0, 720	8	0.560 0.800	5, 446 5, 446	0, 560	
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	

COUNTY

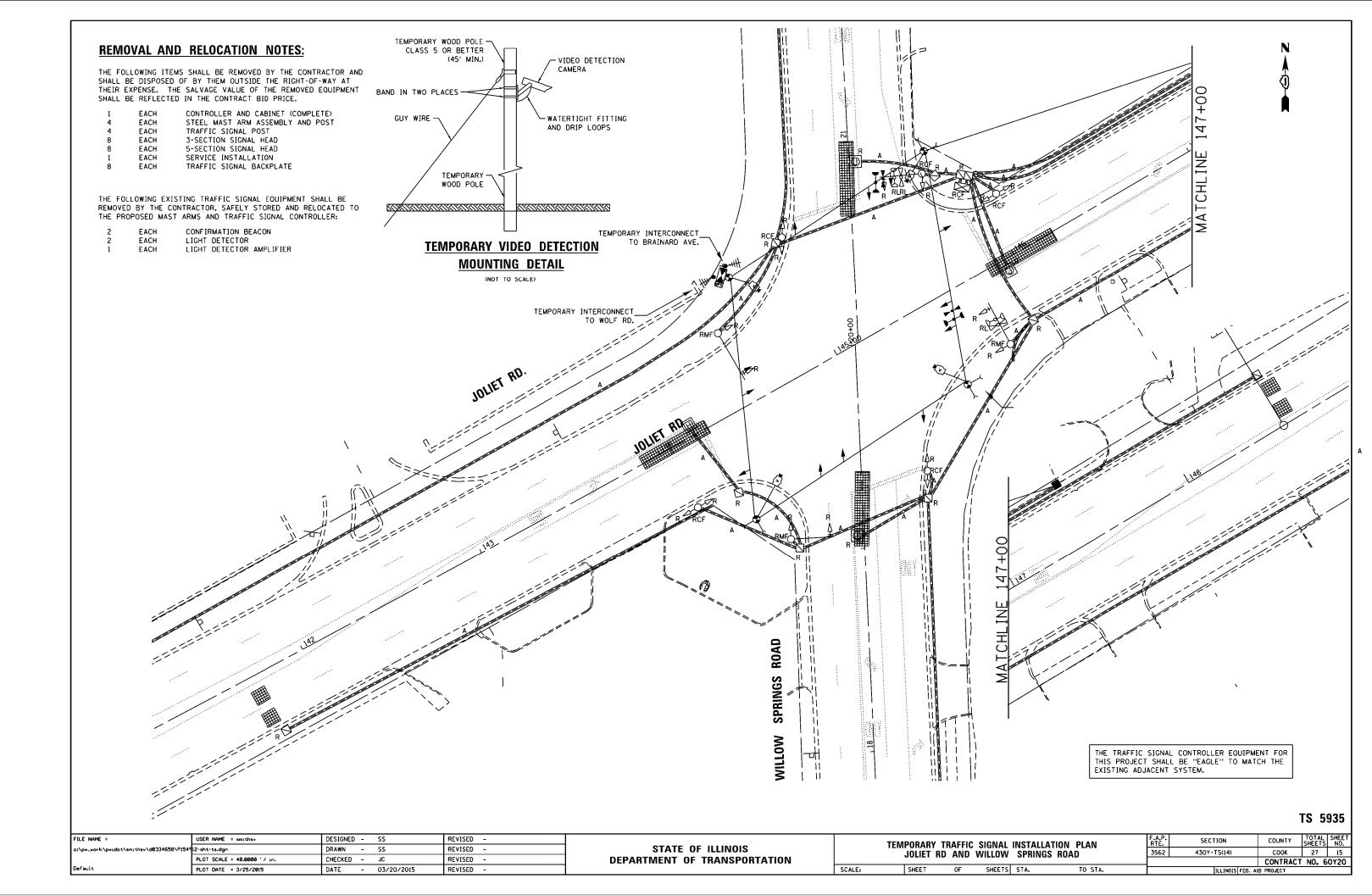
COOK 26 14

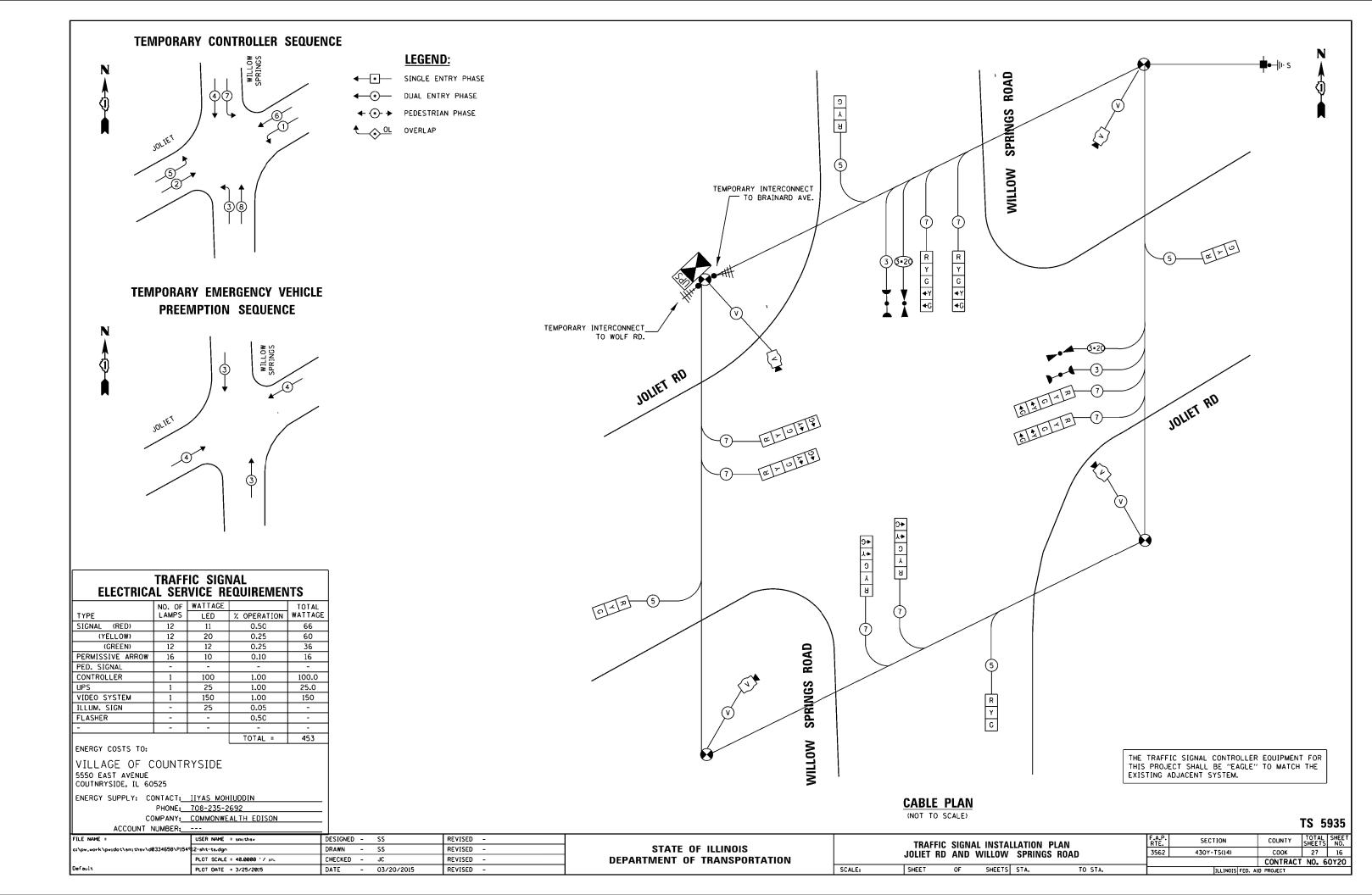
CONTRACT NO 60Y20

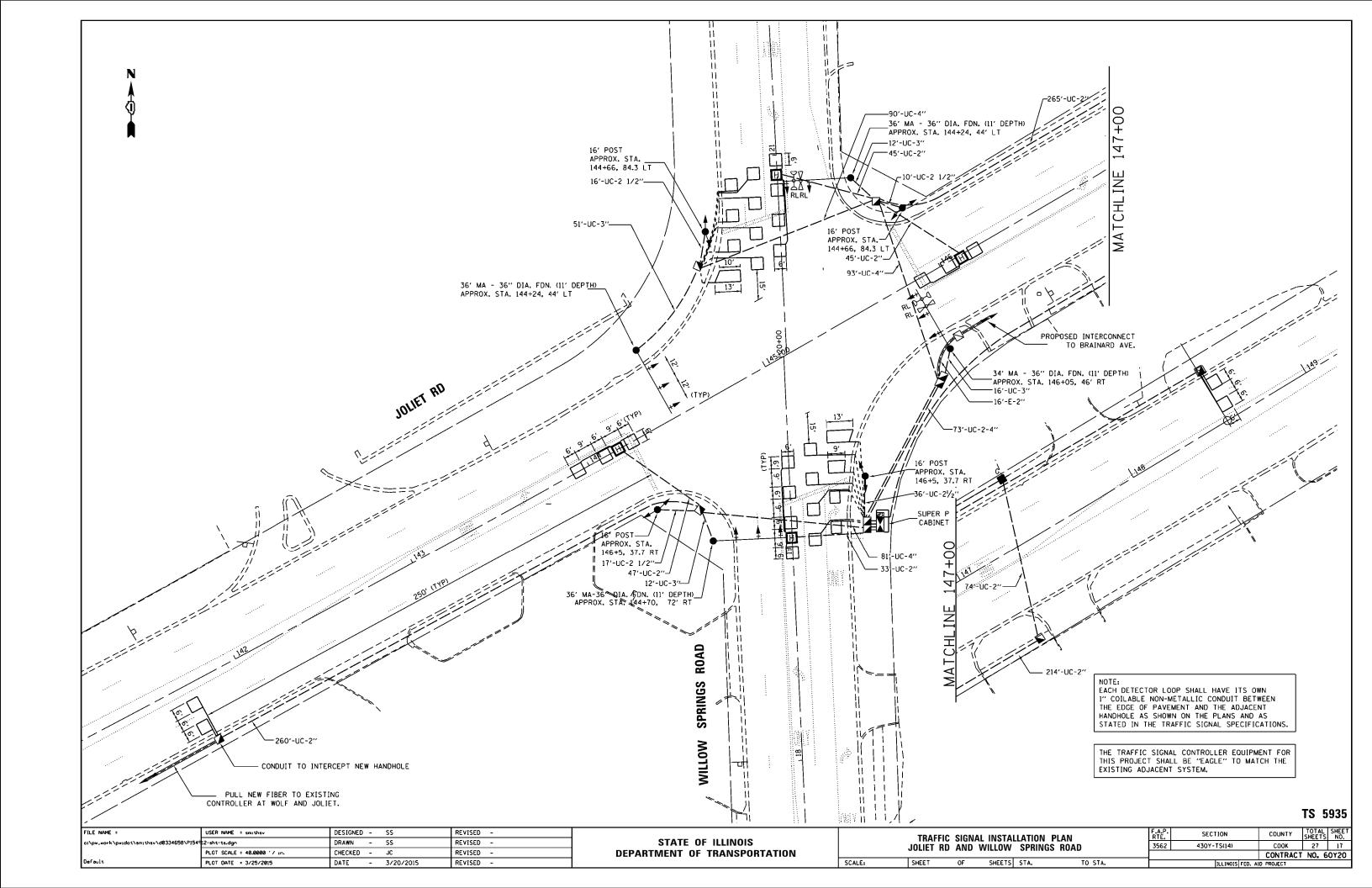
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ı	Default	PLOT DATE = 3/11/2015	DATE	-	03/20/2015	REVISED -

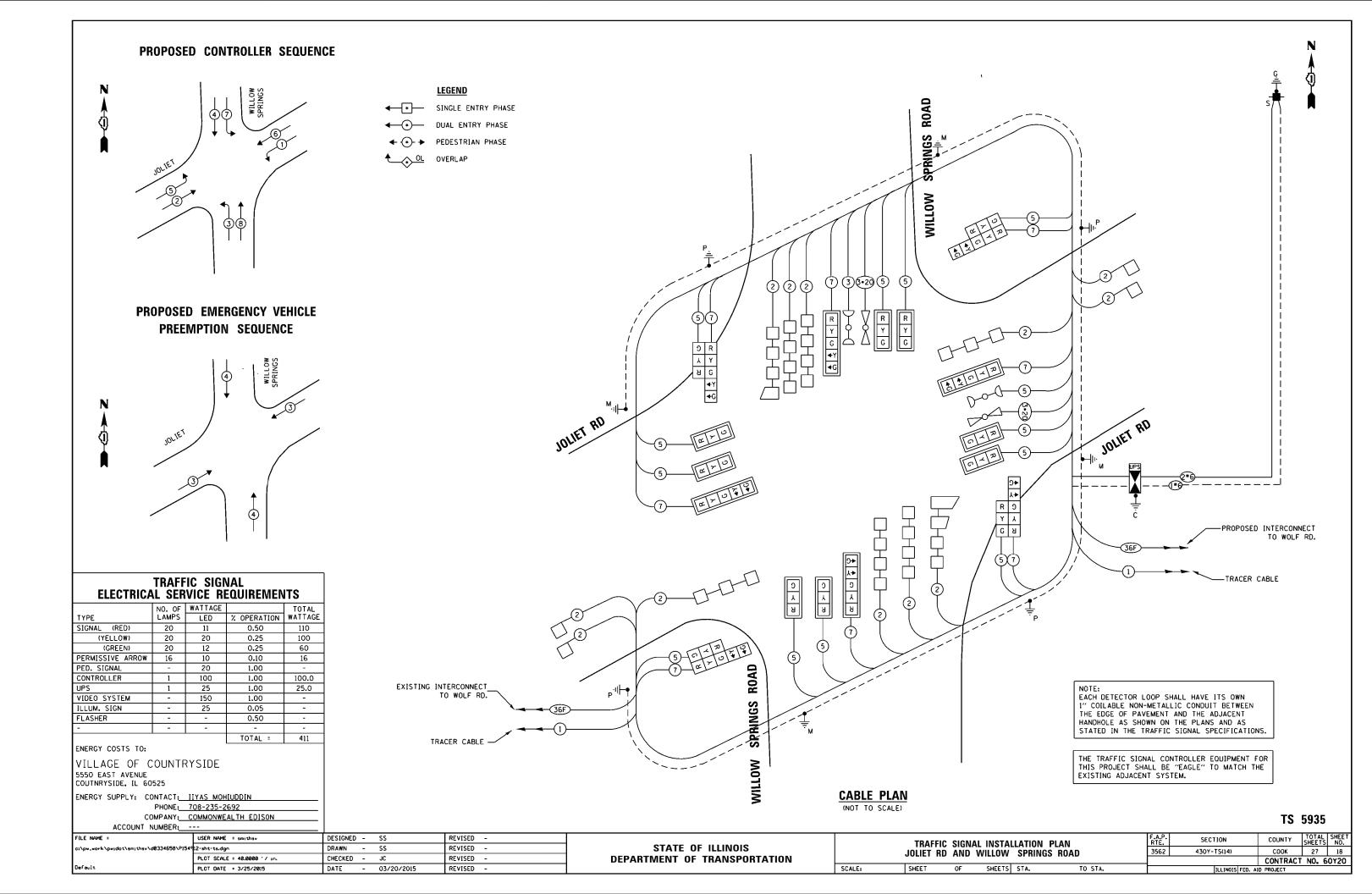
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		DIS	STRICT ON	E		F.A.P. SECTION COUNTY 3562 430Y-TS(14) COOK TS-02 CONTR		
R/	INST ARM	AST ARM MOUNTED STREET NAME SIGNS 3562 430Y-T TS-02	430Y-TS(14)	COOK				
IV		WIOOI					TS-02	CONTR
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT







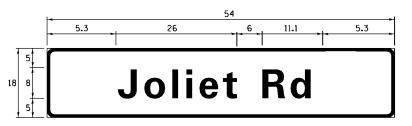


SCHEDULE OF QUANTITIES

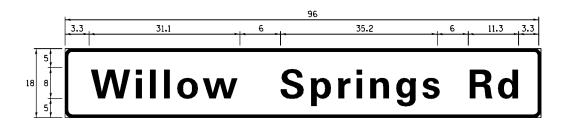
	ITEM DESCRIPTION	UNITS	TOTAL QTY.
	SIGN PANEL - TYPE 1	SQ FT	13.5
	SIGN PANEL - TYPE 2	SQ FT	24
	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1038
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	79
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	164
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	399
	HANDHOLE	EACH	6
	HEAVY-DUTY HANDHOLE	SO FT	4
	DOUBLE HANDHOLE		
	TRANSCEIVER - FIBER OPTIC	EACH	1
*	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	427
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2564
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1830
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3096
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	180
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1256
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	FACH	3
	CONCRETE FOUNDATION, TYPE A	FOOT	16
	CONCRETE FOUNDATION. TYPE C	FOOT	4
	CONCRETE FOUNDATION. TYPE E 36-INCH DIAMETER	FOOT	44
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
	INDUCTIVE LOOP DETECTOR	EACH	12
	DETECTOR LOOP, TYPE I	FOOT	576
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	8
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
	REMOVE EXISTING JUNCTION BOX	EACH	3
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	427
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	TEMPORARY INFORMATION SIGNING	EACH	102.8
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
ļ	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
ŀ			
-			
l		1	

^{* 100%} COST TO PLEASEANTVIEW FIRE DEPARTMENT

SIGN PANEL - TYPE 1 OR TYPE 2



DESIGN	AREA	SIGN PANEL	SHEET ING	OTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	6. 75	1	ZZ	



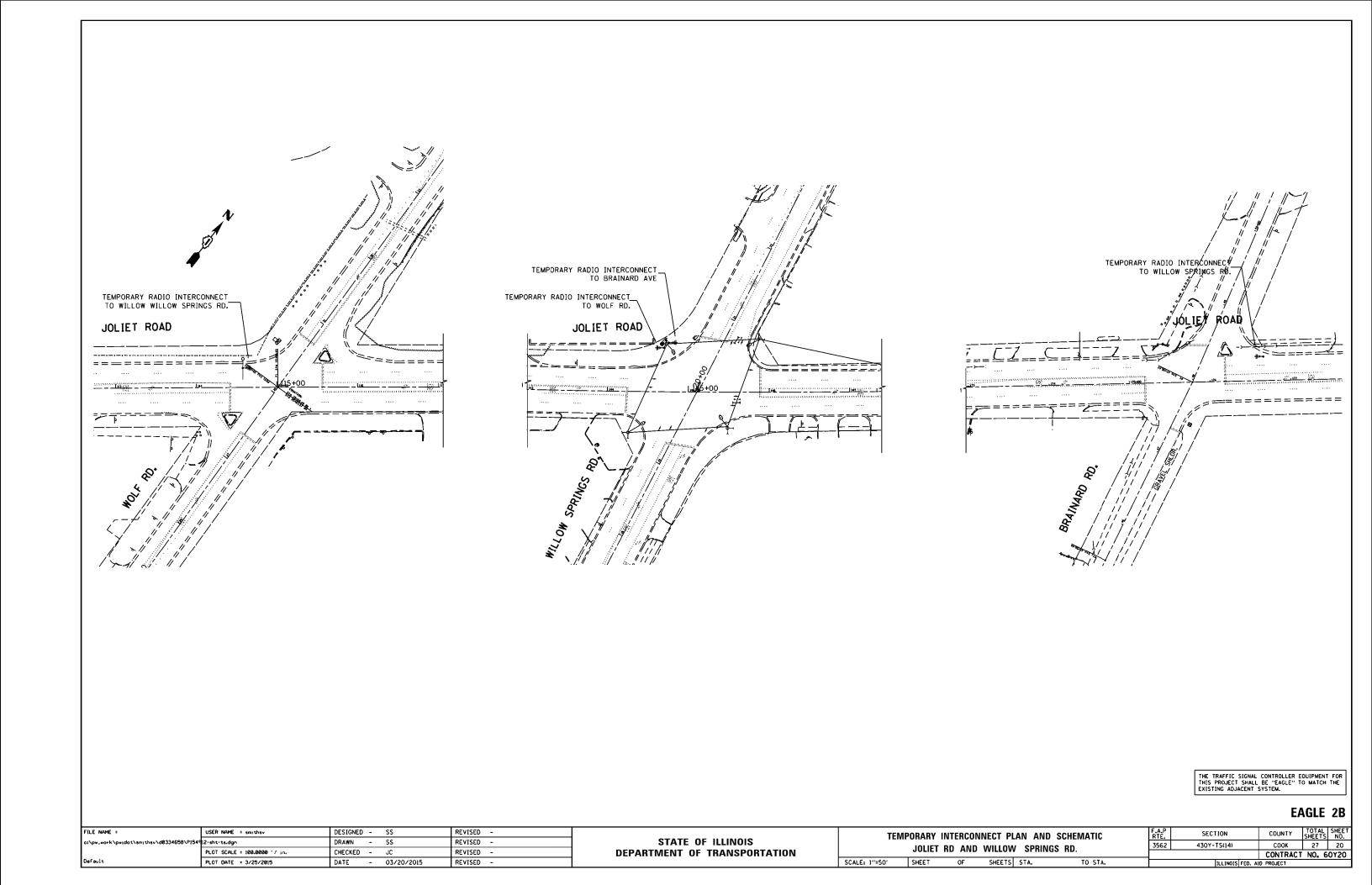
DESIGN	AREA	SIGN PANEL	SHEETING	QTY.	1
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED	l
D	12	1	ZZ	2	l

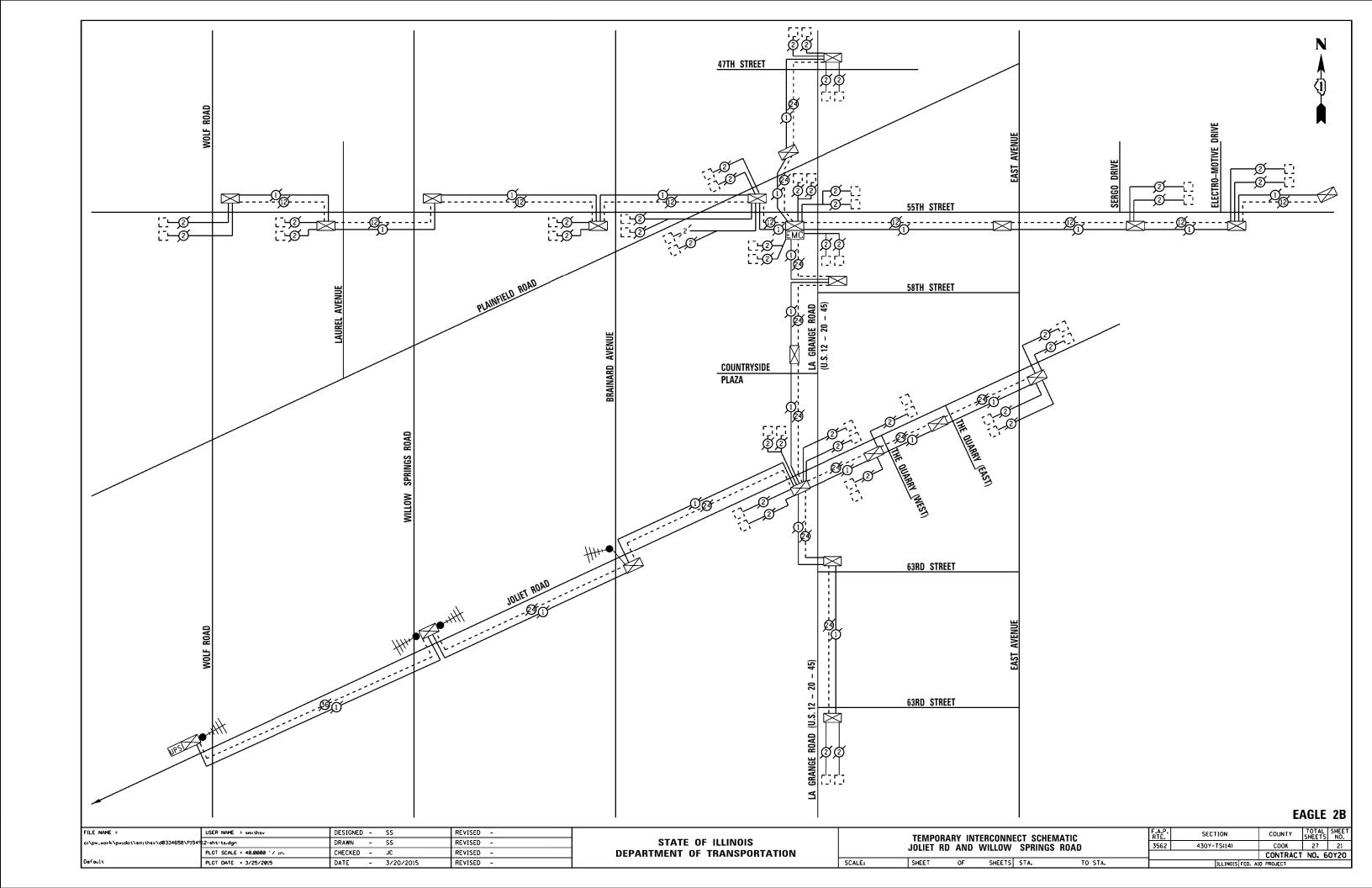
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL

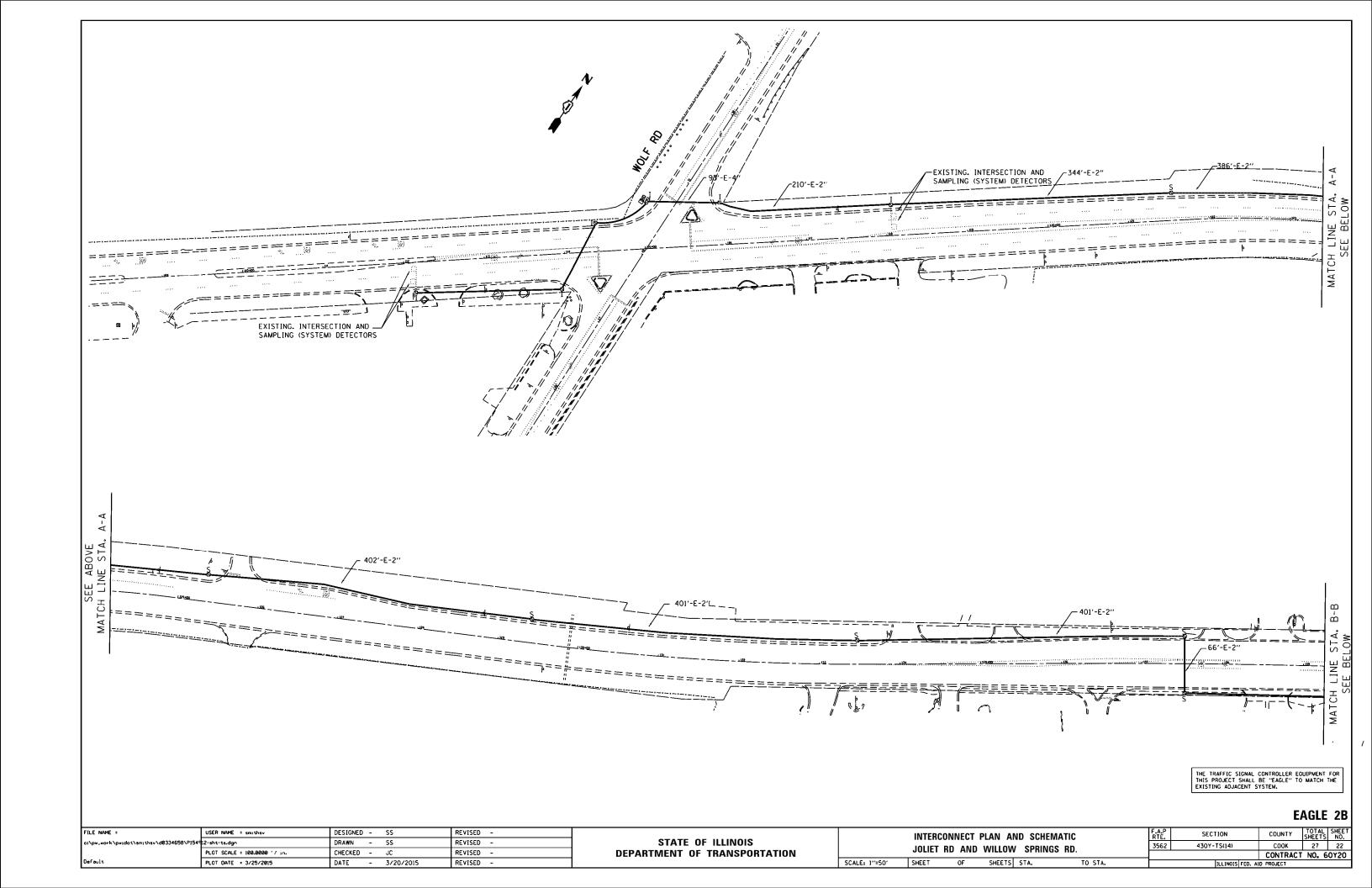
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

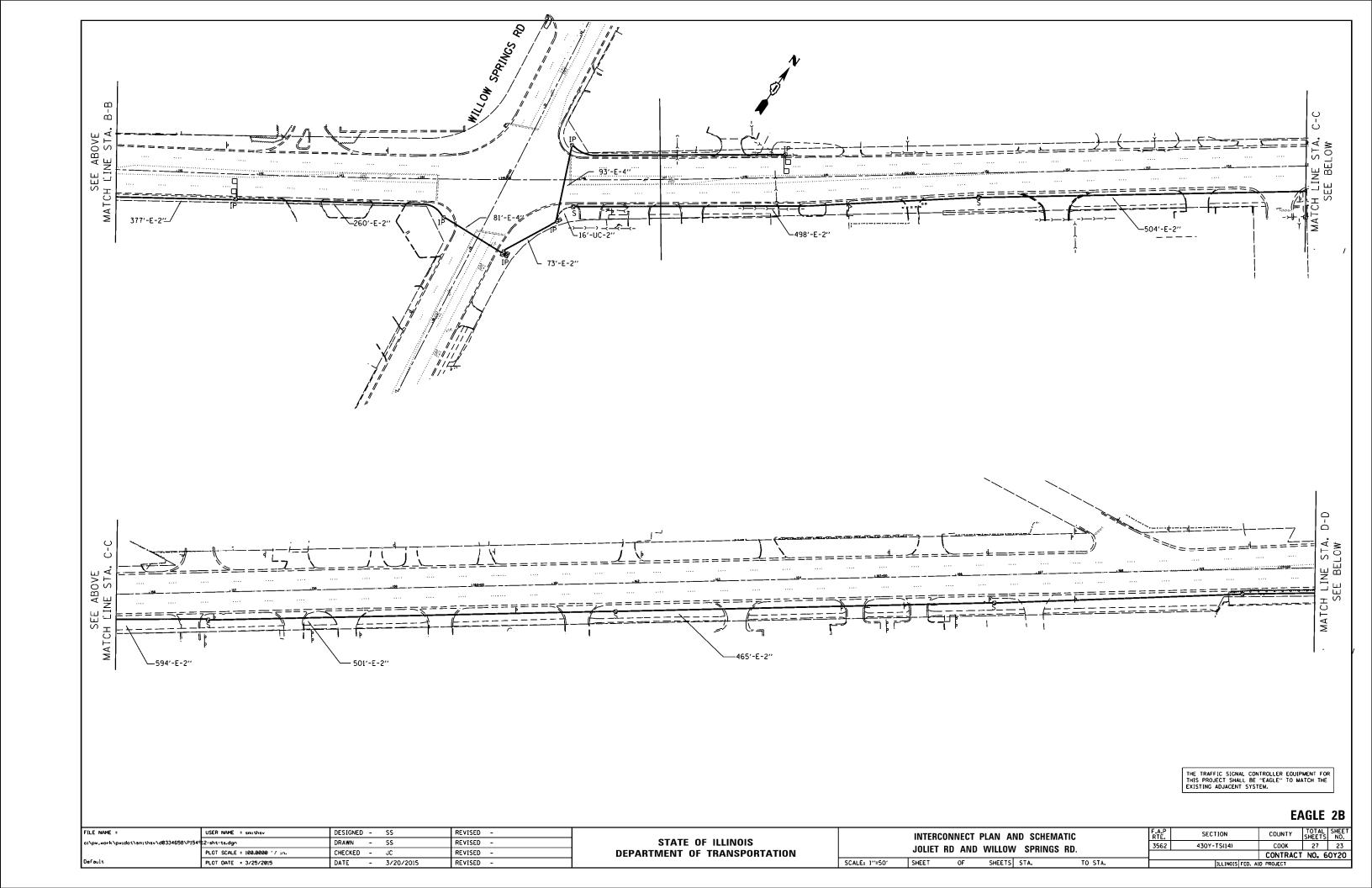
TS 5935

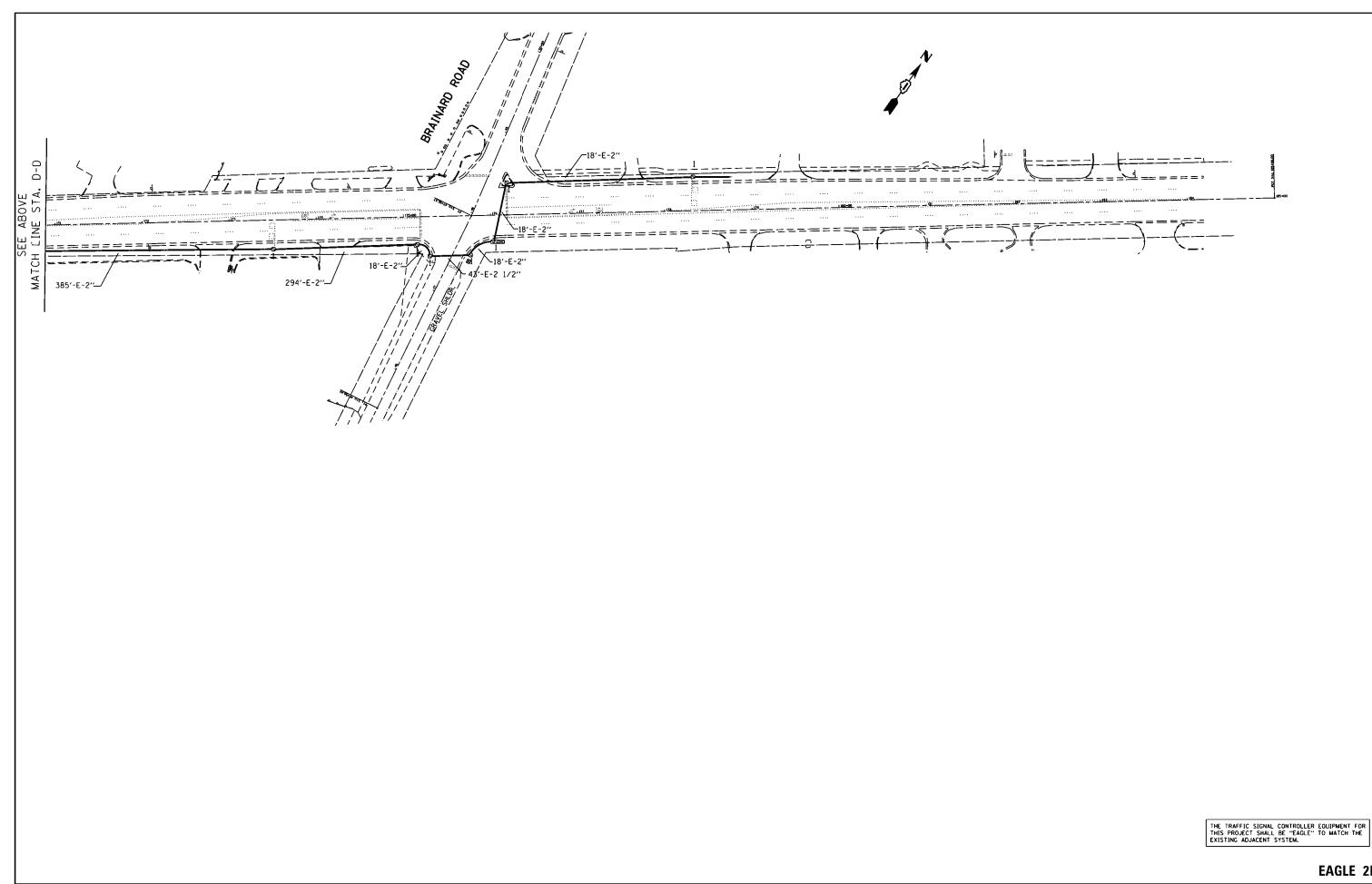
FILE NAME :	USER NAME = smithsv	DESIGNED - SS	REVISED -			TDAEELC	CICNIAI	INSTALLATION	LDIAN	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
c:\pe_work\peidct\smithsv\d0334658\P154	912-sht-ts.dgn	DRAWN - SS	REVISED -	STATE OF ILLINOIS				VILLOW SPRIN		3562	430Y-TS(14)	соок	27	19
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JC	REVISED -	DEPARTMENT OF TRANSPORTATION		JULIET ND	J AND V	VILLUW SENIN	do hoad			CONTRAC	T NO. 6	60Y20
Default	PLOT DATE = 3/25/2015	DATE - 03/05/2015	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FE	. AID PROJECT		





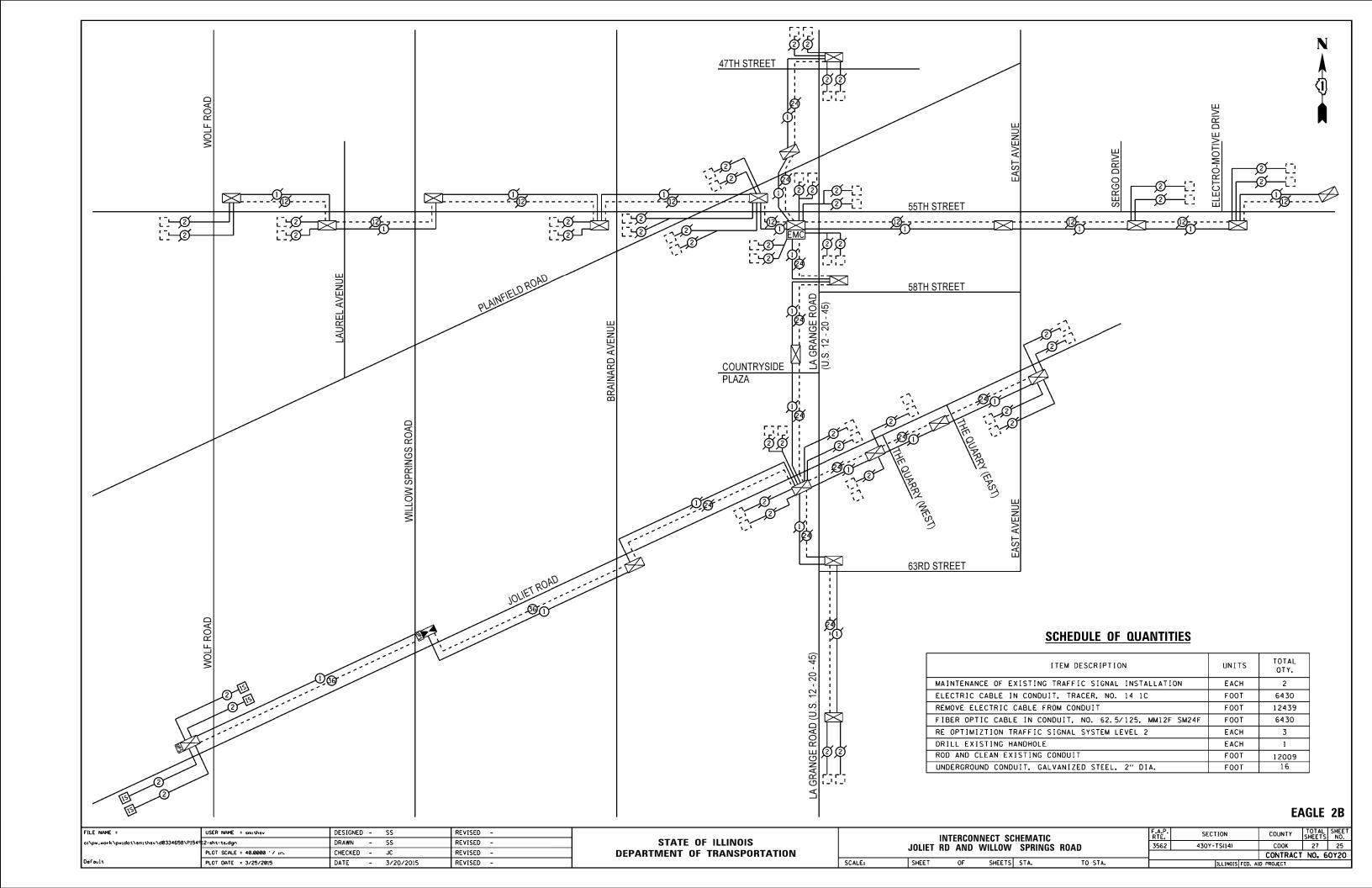


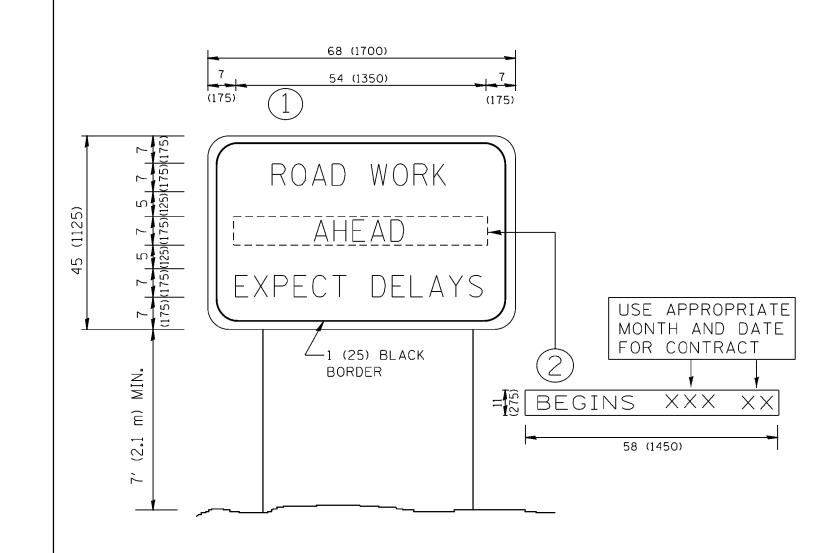




EAGLE 2B

FILE NAME :	USER NAME = smithsv	DESIGNED - SS	REVISED -		INTERCONNECT PLAN AND SCHEMATIC JOLIET RD AND WILLOW SPRINGS RD.		ATIC	F.A.P	SECTION	COUNTY	TOTAL	SHEET			
c:\pe_work\peidot\smithsv\d0334658\P154	12-sht-ts.dgn	DRAWN - SS	REVISED -	STATE OF ILLINOIS						-	3562	430Y-TS(14)	соок	27	24
	PLOT SCALE = 100.0000 '/ in.	CHECKED - JC	REVISED -	DEPARTMENT OF TRANSPORTATION	JOLIET RD AND WILLOW SPRINGS RD.				» нυ.			CONTRACT NO.			
Default	PLOT DATE = 3/25/2015	DATE - 3/20/2015	REVISED -		SCALE: 1"=50"	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



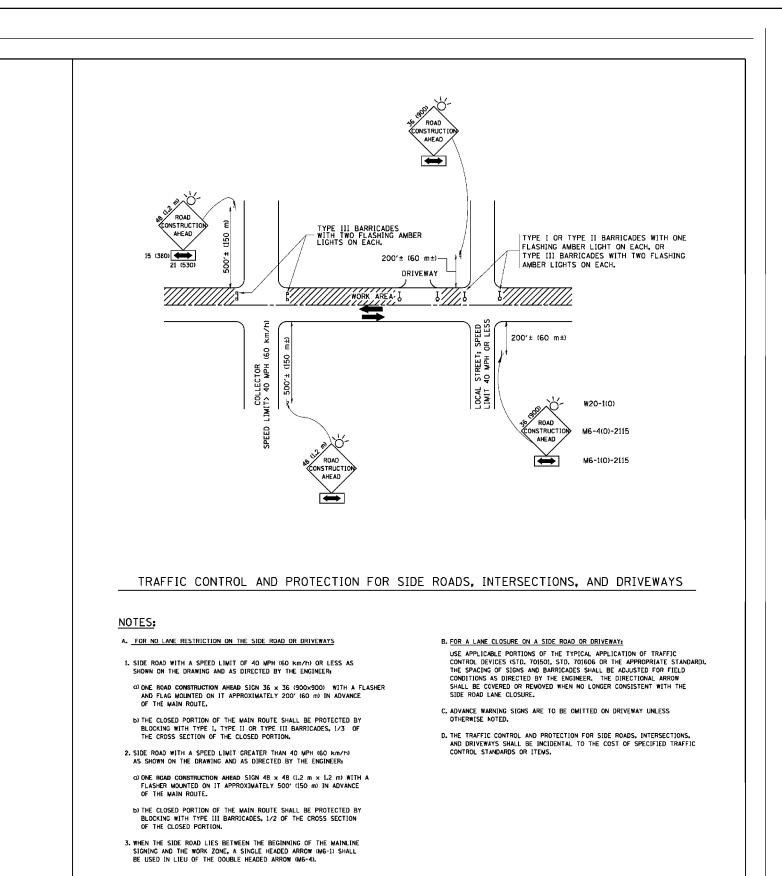


NOTES:

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

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

FILE	NAME =	USER NAME = smithsv	DESIGNED -	SS	REVISED -				ΔRT	FRIAI RO	nΔn		F.A.P	SECTION	COUNTY	TOTAL SI	HEET
c1/b	w_work\pwidot\smithsv\d0334658\P1549	12-sht-ts.dgn	DRAWN -	SS	REVISED -	STATE OF ILLINOIS	ARTERIAL ROAD SIGN INFORMATION 3562 430Y-TS(14)	соок	27	26							
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	JC	REVISED -	DEPARTMENT OF TRANSPORTATION			SIGN	INFURIN	ATION					T NO. 601	Y20
Defa	oul t	PLOT DATE = 3/25/2015	DATE -	3/20/2015	REVISED -		SCALE: 1"=50"	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50"

TRAFFIC CONTROL AND PROTECTION FOR	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	3562	430Y-TS(14)	СООК	27	27					
SIDE HOADS, INTERSECTIONS, AND DRIVEWATS			CONTRAC	T NO. 6	0Y20					
I SHEET OF SHEETS STA TO STA		THE THOUGHT CO. AND DOOLEGE								