FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS 04-26-13 LETTING ITEM 046

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

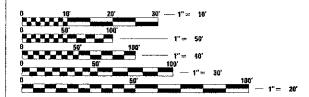
FAU 2531 (EOLA ROAD) WOLF'S CROSSING ROAD TO E. NEW YORK STREET TRAFFIC SIGNAL INTERCONNECT SECTION 11-00296-00-TL PROJECT NO. CMM-9003 (937) **DUPAGE /WILL COUNTY** JOB NO.: C-91-218-12

CITY OF AURORA

THIS IMPROVEMENT IS LOCATED IN THE CITY OF AURORA

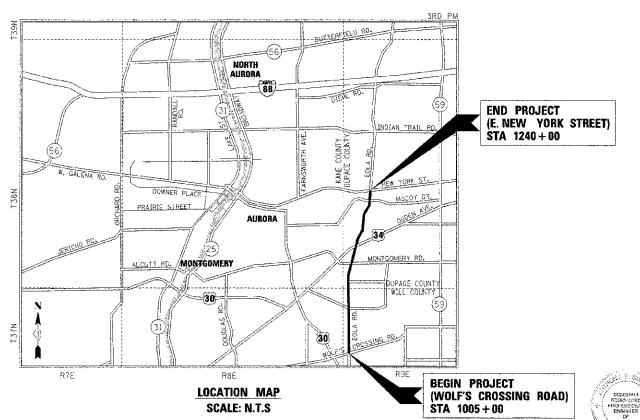
EXISTING ADT (2008) = 33,000POSTED / DESIGN SPEED = 30-35 M.P.H. DESIGN DESIGNATION = MAJOR ARTERIAL

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATION 1-800-892-0123 (CALL 48 HOURS IN ADVANCE)



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.

CONTRACT NO: 63786



PROJECT GROSS LENGTH = 23,500.00 FEET = 4.45 MILES PROJECT NET LENGTH = 23,500.00 FEET = 4.45 MILES

EXPIRES: 11/30/2013

CONTRACT NO. 63786 LOCATION OF SECTION INDICATED THUS: -STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** DECEMBER 17

F.A.U. SECTION

2531 11-00296-00-TL

COUNTY TOTAL SHEET NO.

DUPAGE/WILL 48

CITY OF AURORA, CITY TRAFFIC ENGINEER

DECEMBER 31 2012 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED

REVEW JANUARY Z, 2013

DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



651 PRAIRIE POINTE, SUITE 201 | YORKVILLE, ILLINOIS 60560 Phone: 630.553.7560 | Toll Free: 800.728.7805 | Fax: 630.553.7646 | HRGreen.com ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

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5 - 10	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
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12	TRAFFIC SIGNAL INSTALLATION PLAN - HAFENRICHTER ROAD
13	CABLE PLAN AND PHASE DESIGNATION DIAGRAM - HAFENRICHTER ROAD
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15	EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - KEATING DRIVE (87TH STREET)
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24	CABLE PLAN AND PHASE DESIGNATION DIAGRAM - VILLAGE GREEN DRIVE / STADIUM DRIVE
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29	CABLE PLAN AND PHASE DESIGNATION DIAGRAM - MCCOY DRIVE
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41 - 46	INTERCONNECT SCHEMATIC
47	TRAFFIC CONTROL AND PROTECTION DETAIL
48	FIBER OPTIC SPLICE DETAIL

LIST OF HIGHWAY STANDARDS

- 000001 06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 424001 07 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424006 01 DIAGONAL CURB RAMPS FOR SIDEWALKS
- 424011 01 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 424021 01 DEPRESSED CORNER FOR SIDEWALKS
- 606001 05 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701001 02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006 04 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101 03 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106 02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701501 06 URBAN LANE CLOSURE, 2L. 2W, UNDIVIDED
- 701601 08 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701606 08 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701 08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801 05 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901 02 TRAFFIC CONTROL DEVICES
- 720001 01 SIGN PANEL MOUNTING DETAILS
- 720006 03 SIGN PANEL ERECTION DETAILS
- 720016 03 MAST ARM MOUNTED STREET NAME SIGNS
- 805001 01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 814001 02 HANDHOLES
- 814006 02 DOUBLE HANDHOLES
- 825011 02 LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240V
- 857001 01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001 01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001 02 TRAFFIC SIGNAL GROUNDING & BONDING
- 877011 05 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'

SCALE: SHEET NO. OF SHEETS STA.

- 878001 09 CONCRETE FOUNDATION DETAILS
- 880006 01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001 01 DETECTOR LOOP INSTALLATIONS
- 886006 01 TYPICAL LAYOUTS FOR DETECTION LOOPS

FR NAME - MEARING	DESIGNED - MUF	REVISED -
ST SCALE =	CHECKED - APS	REVISED -
OT DATE = 1/9/2013	DATE 12/27/2012	REVISED
.∉ NAME * 899L1Lindex.dgn		REVISED

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	F.A.U. RTE.	SEC	TION		ì	COU	ΥTΥ	TOTAL SHEETS	SHEE:
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_	FeJ. ⊲	GAU DIST. NO.	ILLINOIS	FED.	ΑID	PROJE	CT		

P. AN SURPEO NOTE SCOR ALGORATIC TOLOGO NO. STATE THE WAY.

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	HAFENRICHTER ROAD	KEATING DRIVE	OGDEN AVENUE	VILLAGE GREEN DRIVE / STADIUM DRIVE 0021	LONG GROVE DRIVE	McCOY DRIVE	NEW YORK STREET	INTERCONNECT
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	244				244		VVE 1	1200	0021
	DETECTABLE WARNINGS	SQ FT	33	*****			33				
	COMBINATION CURB AND GUTTER REMOVAL	FOOT	49				49				
	SIDEWALK REMOVAL	SQFT	53				53				
	COMBINATION CONCRETE CURB AND GUTTER, TYPE B.6. 12	FOOT	98				98		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4				30				
	MOBILIZATION	L SUM	1								
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM									
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701608	1 SUM	1	-					*·····		
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701861	L SUM	1		······································				***************************************		
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1								
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SÚM	1								
1	SIGN PANEL - TYPE 1	SQFT	67.5	12	27						
	SIGN PANEL - TYPE 2	SQFT					28.5				
	ELECTRIC SERVICE INSTALLATION	EACH	45	22.5			22.5				
	SERVICE INSTALLATION - GROUND MOUNTED		3	7	1		1				
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1						1		
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	EACH	5	1	1	1	1	1			
		FOOT	20895	39	125	503	106				20119
	UNDERSKOUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	144	12	111		21				
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	233	72	79		82				
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4° DIA.	FOOT	1034	330	388		316				
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	53								53
	JUNCTION BOX STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	2								2
	HANDHOLE	EACH	62	3	4	2	4				49
	DOUBLE HANDHOLE	ÉÄCH	3	1	1		1				
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	2646	088	917.5		888				
	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	12	4	4		4				
	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	3	1	1		1				
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	9	1	1	1	1	1	1	1	2
	PAINT NEW TRAFFIC SIGNAL POST	EACH	В	1	4		3				
	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	5	2	1		2				
	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	7	2	3		2			***************************************	
	TRANSCEIVER - FIBER OPTIC	EACH	8								8
	FIBER OPTIC CABLE IN CONDUIT, NO. 52,5/125, MM 12F SM12F	FOOT	25702								25702
	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	23			j j		<i>7.</i>	7		
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14-10	FOOT	25702								25702
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	8097	659	1467		1379	1099	1447	2045.5	
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	9688	1016.5	1930	84.5	1751.5	1201	1503	2202	*****
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3824	1499.5	967		1357.5				
	ELECTRIC CABLE IN CONDUIT SIGNAL NO. 14 7C	FOOT	4204	931	1652		1620.5				
	ELÉCTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4212	-		1434.5		817.0	799.5	1181.0	
	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 6 PAIR	FOOT	2646	880	917,5		868				
	LECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	452	73	149	33	138	31	27.5	*** ** * * * * * * * * * * * * * * * * *	
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	F001	4057	531	806	857.5	622	631	610		
	RAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1						
	RAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6	1	8		2				
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1				1				
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1				1				
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	3	2	1						×
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH:	1				1				
	STEEL COMBINATION MAST ARM ASSEMBLY AND FOLE 42 FT.	EACH	1				*				
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	3	1	2						
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	111	1							
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1		1						
	·										

	HRGreen.com Minols Professional Design Firm # 184-001922
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PLOT SCALE # CHECKED - APS REVISED PLOT DATE 1/9/2013 DATE 1/2/27/2012 REVISED		
PLOT DATE - 1/9/2013 DATE - 12/27/2012 REVISED		
	-	
FILE NAME = 698.H.sucr0ludge REVISED		

STAT	E OI	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE:

- 1	RTE.	SECTION
SUMMARY OF QUANTITIES	2531	11-00296-00
NO OF CHEET'S STA		

RTE. SECTION	CCUNTY	SHEETS	NO
2531 11-00296-00-7L	DUPAGE/WILL	48	.3
	CONTRACT	NO. 6	378
FED. ROAD DIST. NO.	D PROJECT		

7, AN SERVICE BY 2A/18 80.17 SOCIAL SECRETED
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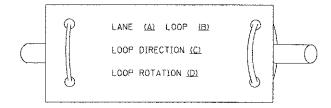
CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	HAFENRICHTER ROAD	KEATING DRIVE	OGDEN AVENUE	VILLAGE GREEN DRIVE / STADIUM DRIVE 0021	LONG GROVE DRIVE	MicCOY DRIVE	NEW YORK STREET 0021	INTERCONNECT 0621
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	32	4	16		12				
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	12	4	4		4				
67800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	145	48	50		47				
87900200	DR:LL EXSTING HANDHOLE	EACH	10	· · · · · · · · · · · · · · · · · · ·		2					R
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	18	7							
					5		Ď.				
88030050	SIGNAL HÉAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1							
.88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8	1	4		3				
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	11	3	4		4				
88030220	SKONAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1							
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1				1				
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	13	2				2	6	3	
86102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14	1	4		4	2	1	2	
88102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1							1	
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	29	10	9		10				
88500100	INDUCTIVE LOOP DETECTOR	EACH	33			11		9	10	3	
88600100	DETECTOR LOOP, TYPE I	FOOT	356			156					
88700200	LIGHT DETECTOR	EACH	6	2	2		2				
88700300	LIGHT DETECTOR AMPLIFIER	EACH	7	1	i	1	1	1	1	1	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	44	4	8		8	6	8	10	
89502215	MODIFY EXISTING CONTROLLER FOUNDATION	EACH	3			1		1	1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	22749	4641	4933	1028.5	4865	1653	2760.5	2667.5	
			7								
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH		1	1	1	1	1	1	1	
X0324256	FIBER OF TIC CABLE SPLICE	EACH	1								1
.,	RADIO ANTENNA	EACH	1								1
	WIRELESS ETHERNEY RADIO	EACH	1								1
X0326266	ETHERNET SWITCH	EACH	4	1			1		1		1
X0326812	CAT 5 ETHERNET CABLE	FOOT	317		86.5	84.5		60		86.5	
			1								
	VIDEO DETECTION SYSTEM	EACH	3	1	1		1				
		EACH EACH	L	1	1	1	1	1			
X0326985	VIDEO DETECTION SYSTEM		3	1	1				1		
X0326985 X8570226	VIDEO DETECTION SYSTEM FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	3 6	1 1 1 329.5	1	1	1	1	1		
X0326865 X8570226 X8520200	VIDEO DETECTION SYSTEM FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH EACH	3 6		1 1	1	1	1	1		
X0326685 X8570226 X8520290 X8730250	VIDEO DETECTION SYSTEM FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 9C, TWISTED, SHIELDED	EACH EACH FOOT	6 6 967		1 1	1	1	1			
X0326885 X8570226 X8620200 X8730250 X6803682	VIDEO DETECTION SYSTEM FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 9C, TWISTED, SHIELDED SIGNAL HEAD, LED. 1-PACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH EACH FOOT EACH	3 6 6 967		1 1	1	1	1	4		
X0326885 X8570228 X8520200 X8730250 X6803084	VIDEO DETECTION SYSTEM FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED SIGNAL HEAD, LED. 1-PACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-PACE, 3-SECTION, MAST ARM MICUNTED RETROFIT	EACH EACH FOOT EACH EACH	3 6 6 967 10		1 1	4	1	1 1	4		
X0326685 X8570226 X8520200 X8730250 X8603082 X8603084 X8603088	VIDEO DETECTION SYSTEM FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED SIGNAL HEAD, LED. 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED. RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED. RETROFIT	EACH FOOT EACH EACH EACH	3 6 6 967 10 14		1 1	4 6	1	1 1 2 4	4 4		
X0326865 X8570226 X8570226 X8520200 X8730250 X8603082 X8603084 X8603088 X8603210 X007251	VIDEO DETECTION SYSTEM FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED SIGNAL HEAD, LED. 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH FOOT EACH EACH EACH EACH EACH	3 6 6 967 10 14 11		1 1 320.5	4 6 6 4	1	1 1 2 4 3	4 4		
X0326865 X8570226 X8570226 X8520200 X8730250 X8603062 X8603084 X8603098 X8603210 X007251	VIDEO DETECTION SYSTEM FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED SIGNAL HEAD, LED. 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA TERMINAL SERVER	EACH FOOT EACH EACH EACH EACH EACH EACH EACH	3 6 6 967 10 14 11 11 11		1 1 320.5	4 6 6 4	1	1 1 2 4 3	4 4		
X0326865 X8570226 X8570226 X8520200 X8730250 X8603062 X8603084 X8603088 X8603210 X007251 X007952 X007993	VIDEO DETECTION SYSTEM FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED SIGNAL HEAD, LED. 1-PACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-PACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-PACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED. 1-PACE, 5-SECTION, BRACKET MOUNTED, RETROFIT NITERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA TERMINAL SERVER CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	EACH FOOT EACH EACH EACH EACH EACH EACH EACH EACH	3 6 6 967 10 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 320.5	4 4 0 4	1	1 1 1 2 2 4 3 3	4 4 4		1
X0326865 X8570226 X8570226 X8520200 X8730250 X6803082 X8603084 X8603088 X8603210 X007951 X007952 X007953	VIDEO DETECTION SYSTEM FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED SIGNAL HEAD, LED 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED 1-FACE, 3-SECTION, MAST ARM MOUNTED RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SRACKET MOUNTED, RETROFIT INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA TERMINAL SERVER CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP EVP CONFIRMATION BEACON, LED RETROFIT	EACH EACH FOOT EACH EACH EACH EACH EACH EACH EACH EACH	3 6 6 6 967 10 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 320.5	4 6 6 4	1	1 1 2 4 3	4 4		1
X0326685 X8570226 X8570226 X8570250 X8503050 X8503084 X8503084 X8503084 X8503085 X8503095 X0070551 X007952 X007952 X007953 X0005565	VIDEO DETECTION SYSTEM FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED SIGNAL HEAD, LED 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED 1-FACE, 3-SECTION, MAST ARM MOUNTED RETROFIT SIGNAL HEAD, LED 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED 1-FACE, 5-SECTION, SRACKET MOUNTED, RETROFIT INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA TERMINAL SERVER CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP EVP CONFIRMATION BEACON, LED RETROFIT OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH FOOT EACH EACH EACH EACH EACH EACH EACH EACH	3 6 6 6 967 10 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 320.5	4 4 0 4	1	1 1 1 2 2 4 3 3	4 4 4		
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X0326685 X8570226 X8570226 X8520200 X8730250 X8603082 X8603084 X8603088 X8603210 XX007251 XX007952 XX007952 XX007953 XX00795660	VIDEO DETECTION SYSTEM FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED SIGNAL HEAD, LED 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED 1-FACE, 3-SECTION, MAST ARM MOUNTED RETROFIT SIGNAL HEAD, LED 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED 1-FACE, 5-SECTION, SRACKET MOUNTED, RETROFIT INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA TERMINAL SERVER CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP EVP CONFIRMATION BEACON, LED RETROFIT OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH FOOT EACH EACH EACH EACH EACH EACH EACH EACH	3 6 6 6 967 10 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 320.5	4 4 0 4	1	1 1 1 2 2 4 3 3	4 4 4		1
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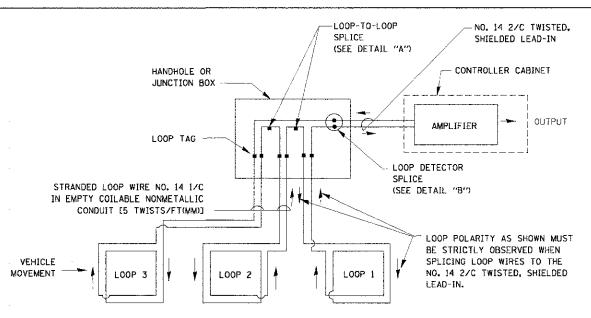
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

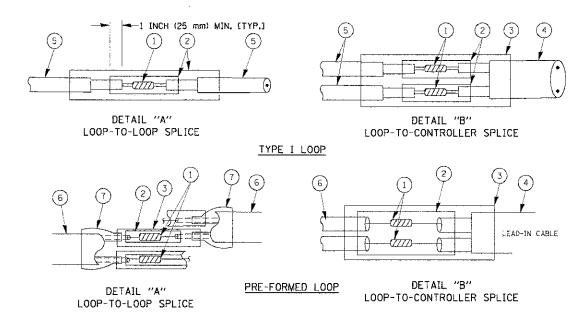


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



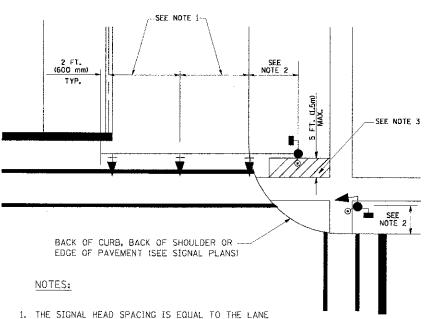
LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (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.
- 6 PRE-FORMED LOOP
- TXL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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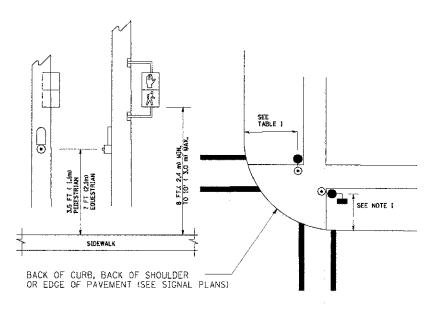
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



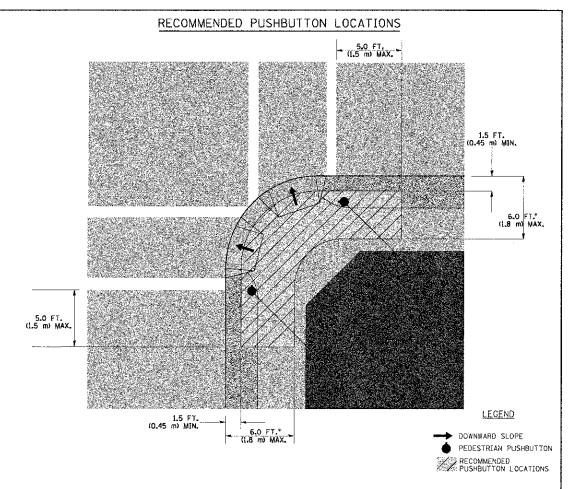
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF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

PEDESTRIAN SIGNAL POST PEDESTRIAN PUSH BUTTON POST



NOTES:

- . 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:

- 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.
- 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
- THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- . THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

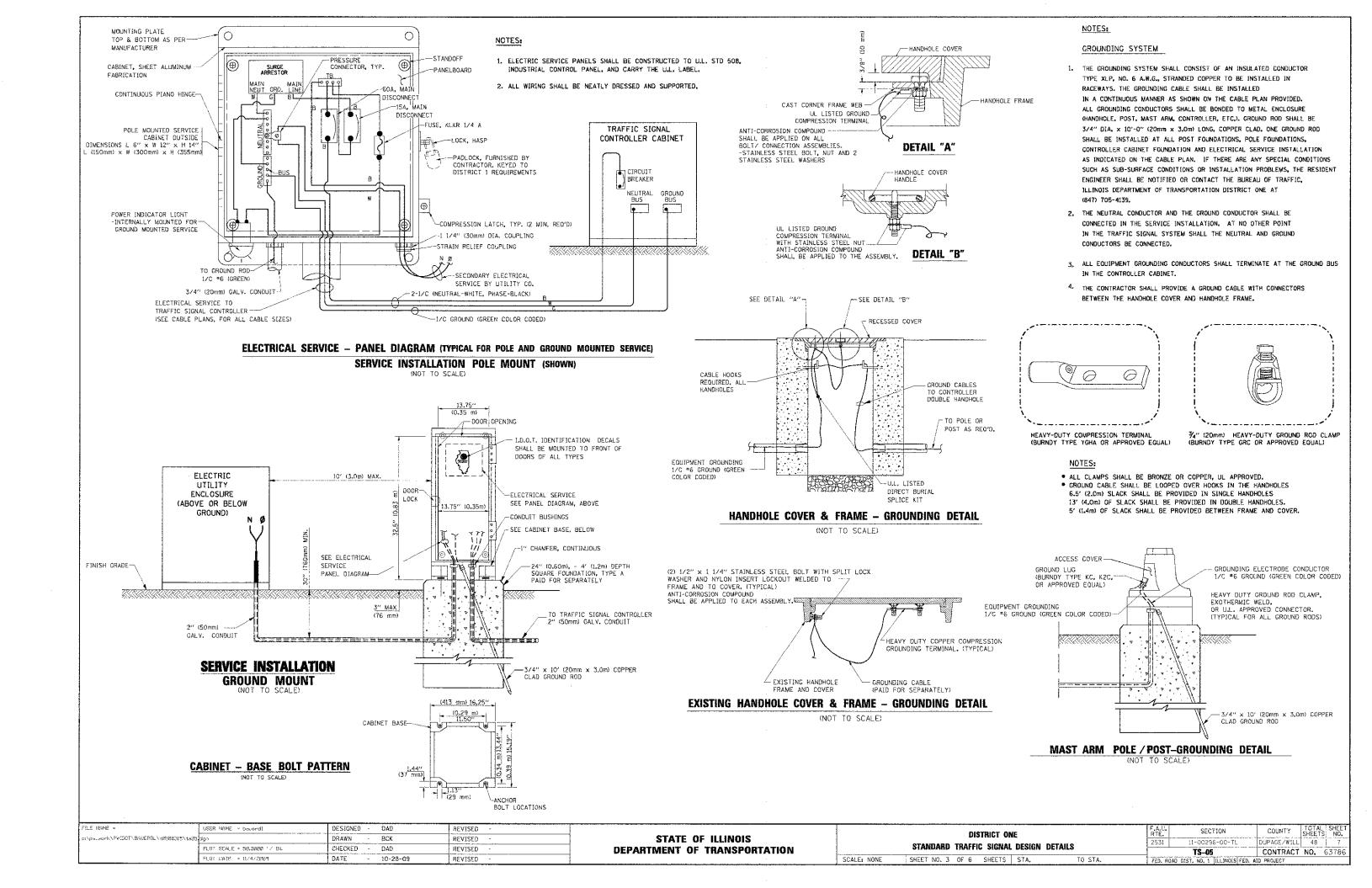
TRAFFIC SIGNAL EQUIPMENT OFFSET

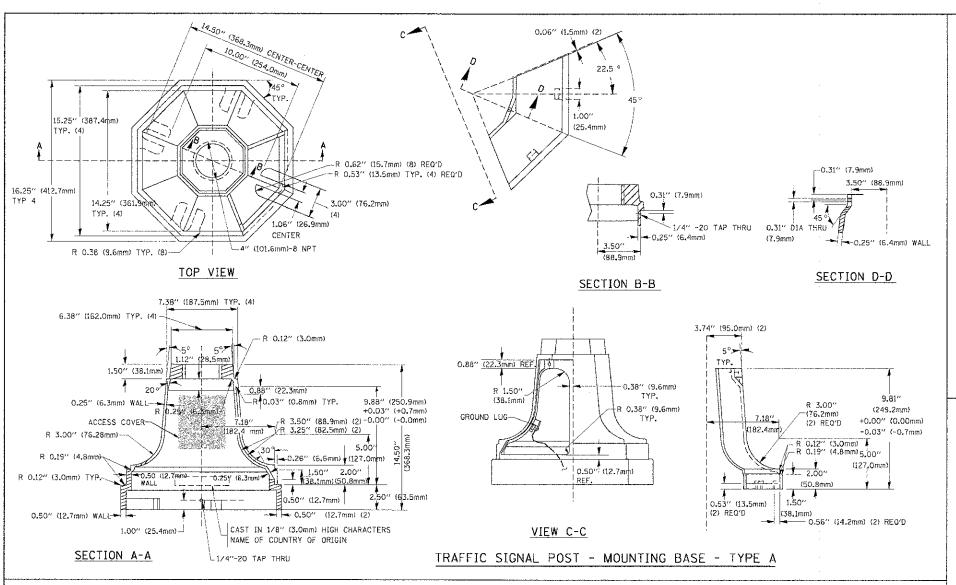
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (L.8m)	SHOULDER WIDTH + 2 FT (0.6m), M(NIMUM 10 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.

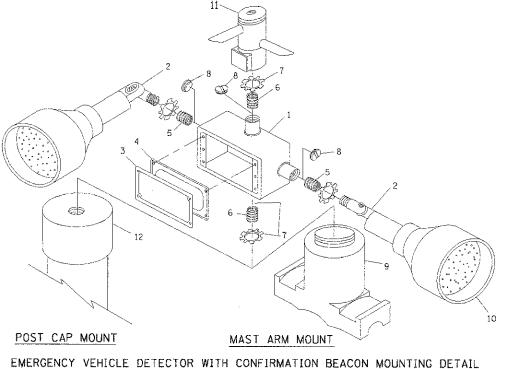
NOTES:

- 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 TO THE 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 PEADS, 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.

FILE NOME DESIGNED -DAD REVISED SECTION COUNTY DISTRICT ONE \pwwwa-k\8W(00T\2A5ERD1\48188318 BCK DRAWN REVISED STATE OF ILLINOIS DUPAGE/WILL 48 6 STANDARD TRAFFIC SIGNAL DESIGN DETAILS YUUT SC≏LE = **50.**0000 ′/ IN. CHECKED -DAD REVISED **DEPARTMENT OF TRANSPORTATION** TS-65 CONTRACT NO. 63786 DATE 10-28-09 REVISED SCALE: NONE SHEET NO. 2 CF 6 SHEETS STA. FED. ROAD DIST, NO. 1 | ILLINOIS | FED. AID PROJECT







DESIGNED

DRAWN

DATE

CHECKED

PLGT SCALE = 50.00200 1/ IN.

BCK

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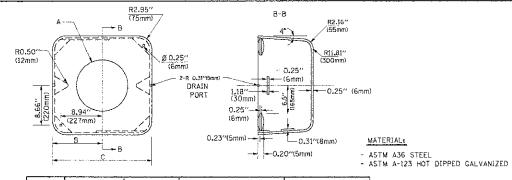
ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾4"(19 mm) CLOSE NIPPLE
7	1/4"(19 mm) LOCKNUT
8	1/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV,
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1~ CZ/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 3/119 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

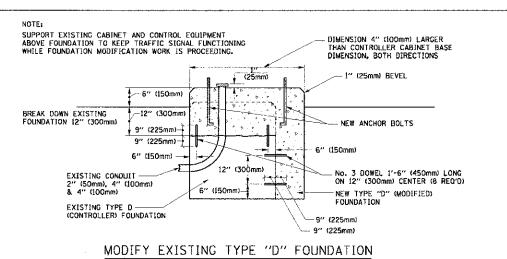


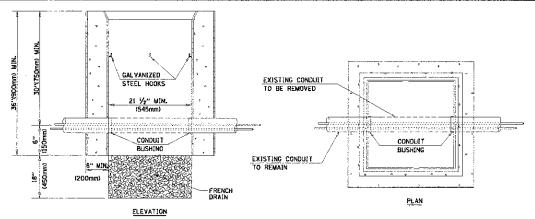
A	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) + 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

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.

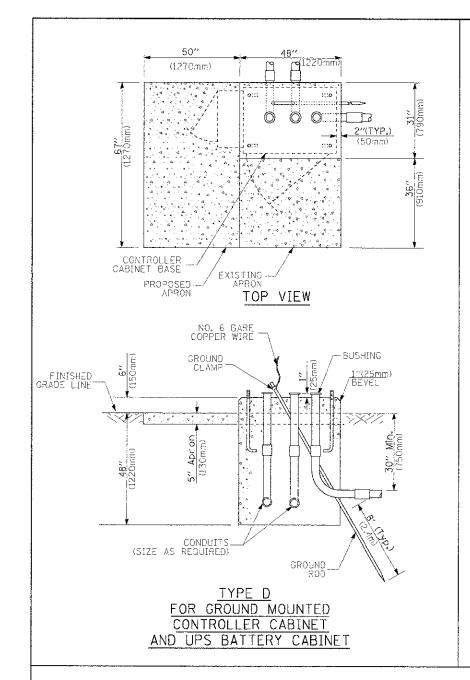


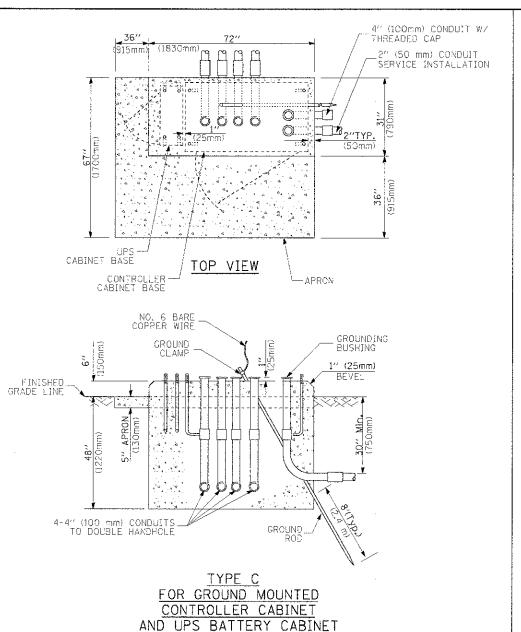


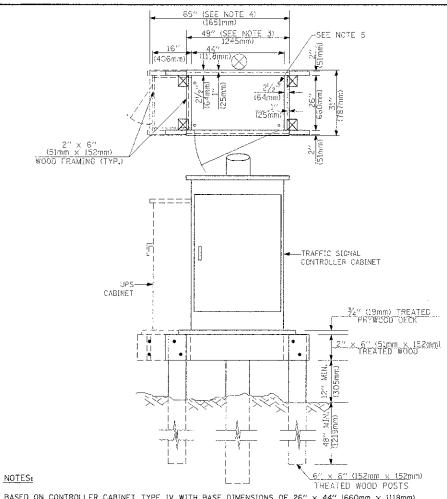
HANDHOLE TO INTERCEPT EXISTING CONDUIT

DISTRICT ONE	F.A.U. RTE	SECTION	COUNTY	TOTAL	SHEET SI NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	2531	11-00296-00-TL	OUPAGE/WILL	48	8
	_	TS-05	CONTRACT	NO.	63786
E: NONE SHEET NO. 4 OF 6 SHEETS STA. TO STA.	FED. R	COAD DIST. NO. 1 ILLENOIS FED. A	D PROJEÇT		

- 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 INCIDENTAL TO THE HANDHOLE.







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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4,0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

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

VERTICAL CABLE LENGTH

COMBINITOR	DE.	
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)

FOUNDATION

DEPTH OF FOUNDATION

Most Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebors
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 п)	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:

DEPTH

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during foundation crilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination most arm assembles under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination most arm assembles 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.

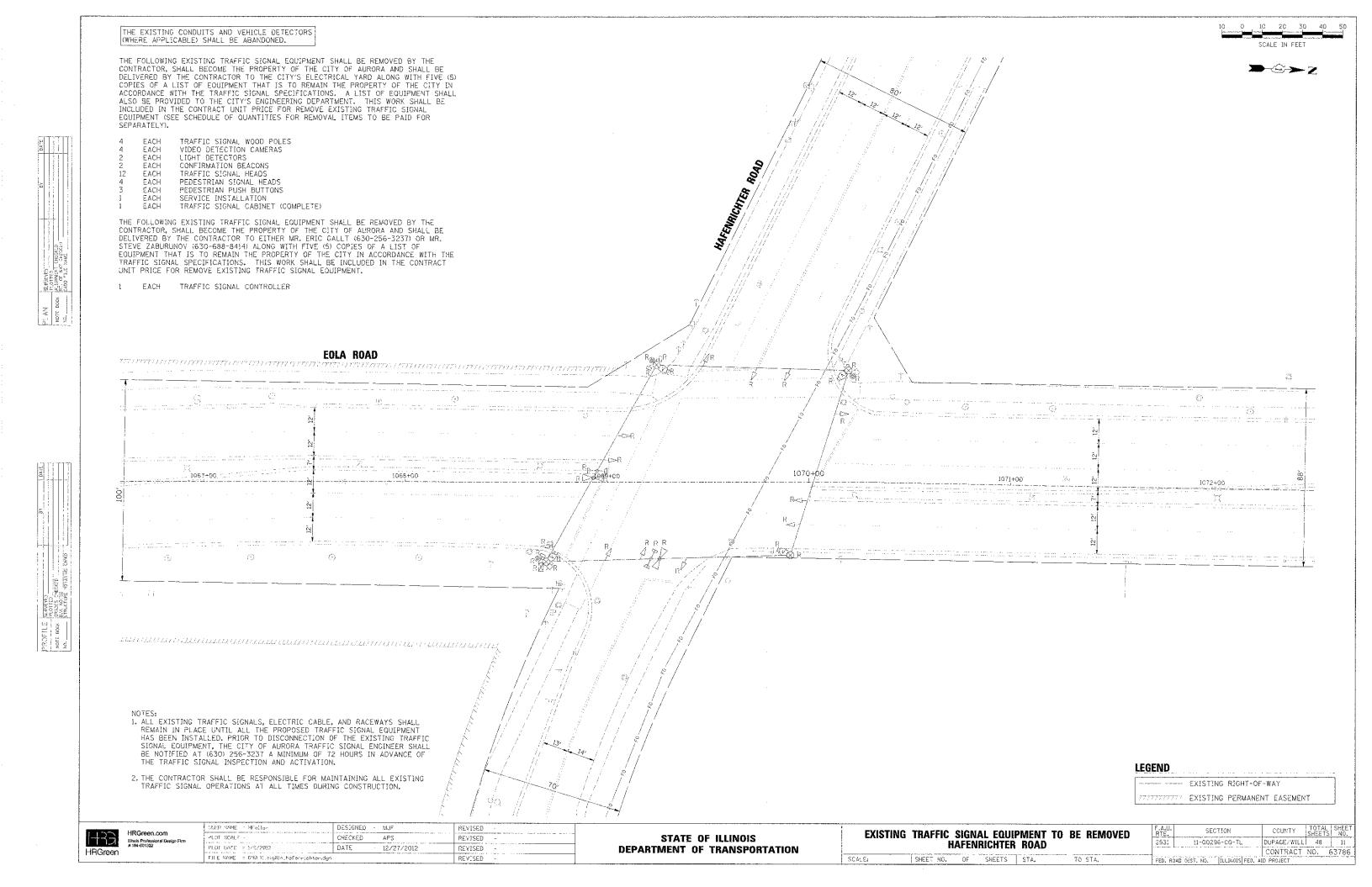
CABLE SLACK

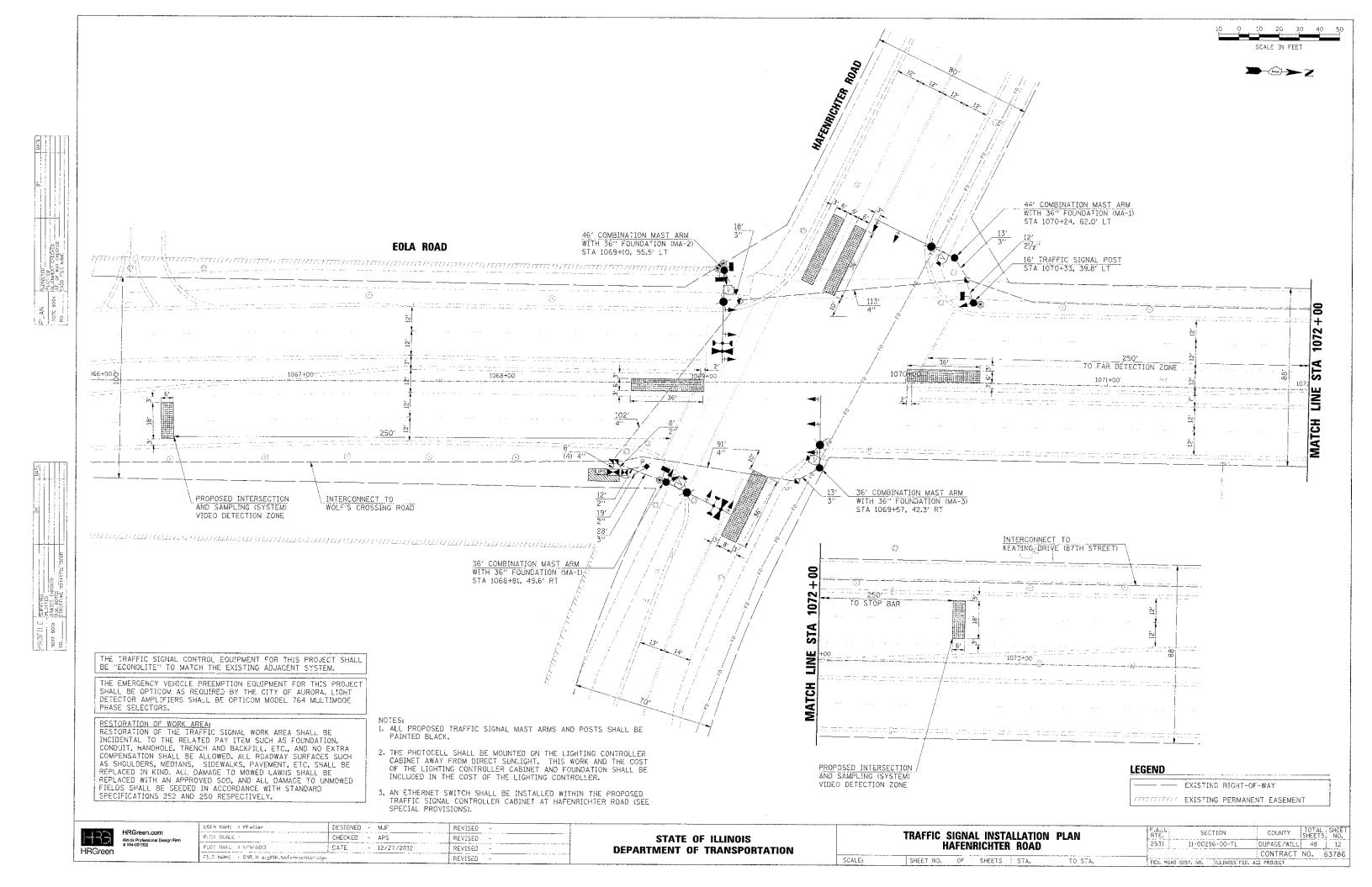
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

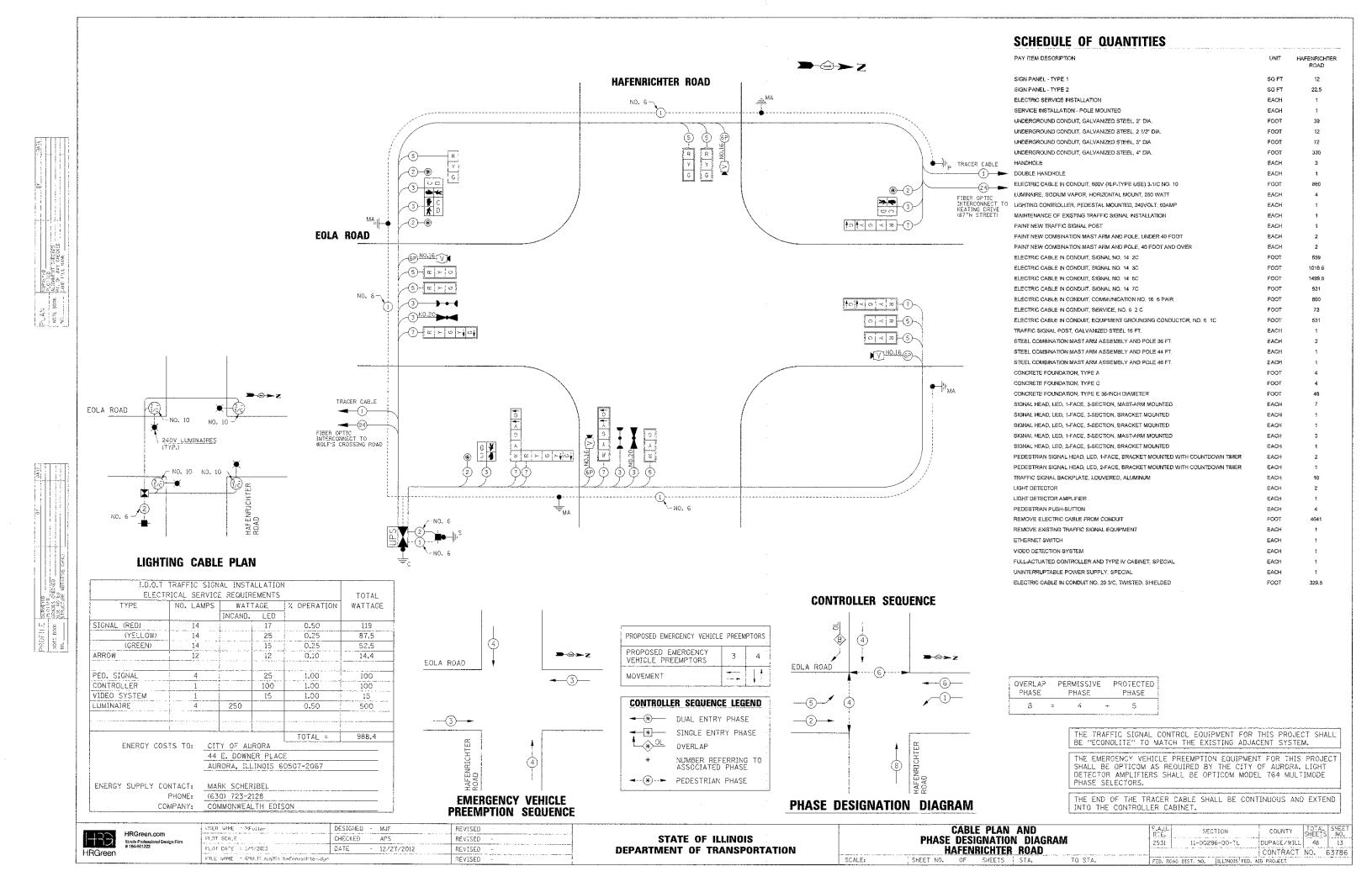
F	LE NAME =	USER NAME = Soueral	DESIGNED -	DAG	REVISED			2.642.62		F.A.J.	SECTION	COUNTY	TOTAL SHEET
٥	\pw_work\PW@QT\BAUERUE\d8108515\to85	dş:	DRAWN -	BCK	REVISED -	STATE OF ILLINOIS		DISTRICT ONE		1 KIE.	11-0020C-00-TI	DUDACE (WH)	SHEETS NO.
ŀ		PLOT SCALE = 52.2000 1/ IN.	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGNAL	N DETAILS	2551	TO 05	CONTRACT	NO 63796
		PLOT GATE # 11/4/2009	DATE -	10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 6 SHEETS STA.	TO STA.	FED. ROAL	DIST. NO. 1 ILLINOIS FED	AID PROJECT	40. co
						 				-			

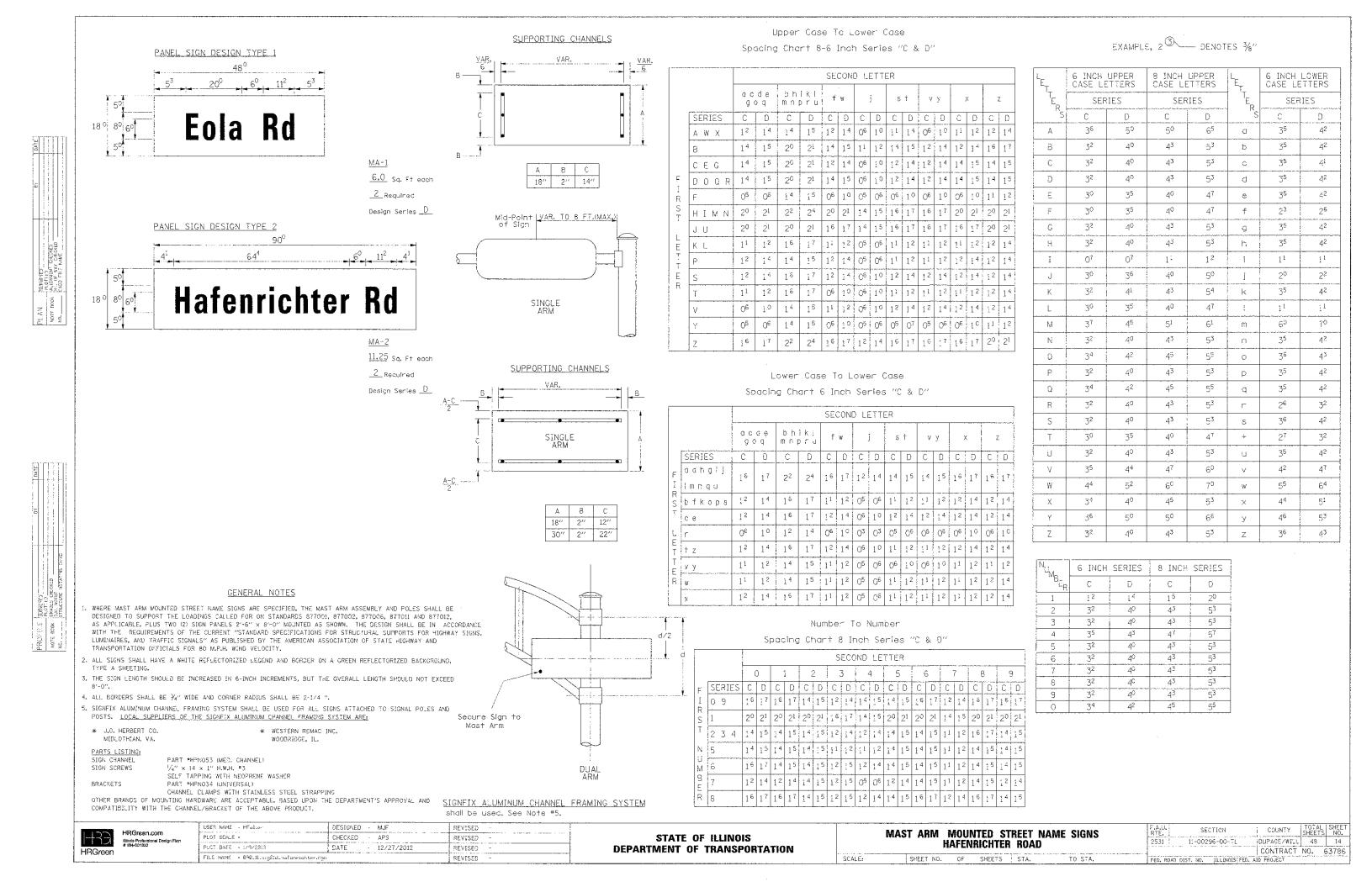
TRAFFIC SIGNAL LEGEND

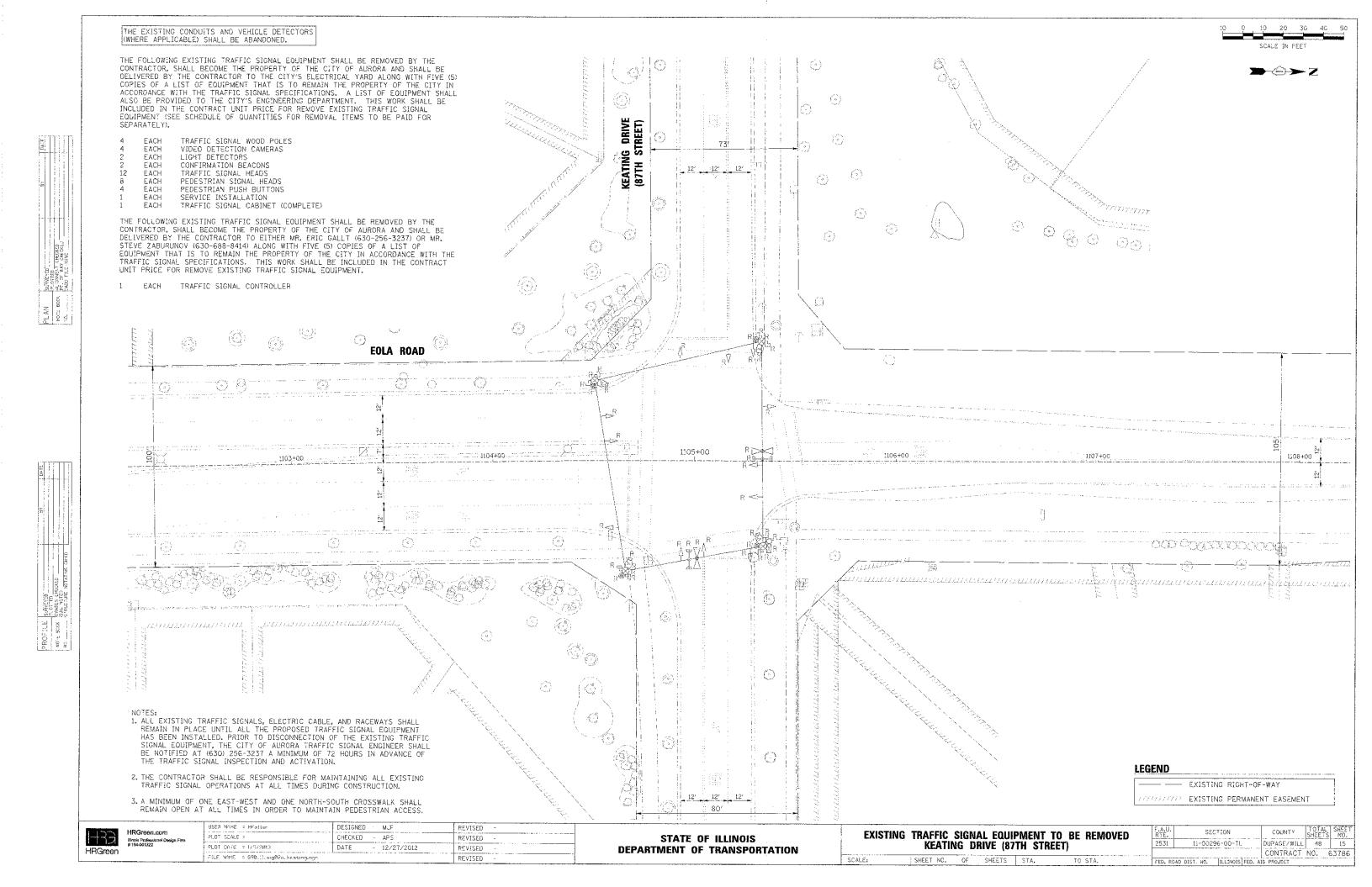
		<u> </u>		T							
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	≥ 3	\boxtimes		EMERGENCY VEHICLE LIGHT DETECTOR	R≪	\ll	-	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
AILROAD CONTROL CABINET			R-C	CONFIRMATION BEACON	R_{o-0}	⊶1	⊷ (
OMMUNICATIONS CABINET	CCR	ECC	CC	HANDHOLE	R [2]	<u>S</u>		COAXIAL CABLE		<u>—(c)—</u>	-0-
ASTER CONTROLLER		EMC	MC	7,710	_		_	VENDOR CABLE FOR CAMERA		(V)	
MASTER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	H	H				7-5	(V)
NINTERRUPTIBLE POWER SUPPLY	UPS	EUPS	<u>UPS</u>	DOUBLE HANDHOLE	R (D)			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			<u>—</u>
ERVICE INSTALLATION, P) POLE OR (G) GROUND MOUNT	□-R	- <u>-</u> -	- - -	JUNCTION BOX GALVANIZED STEEL CONDUIT	<u>(</u>	<u></u>	•	FIBER OPTIC CABLE NO. 62.5/125, MM12F		- <u>(</u>)	
ELEPHONE CONNECTION) POLE OR (G) GROUND MOUNT	R [T]	P [T]	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		— <u>24</u> F)—	(24F)
FEEL MAST ARM ASSEMBLY AND POLE	80	0	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125,			
UMINUM MAST ARM ASSEMBLY AND POLE	8	0.72		COMMON TRENCH			СТ	(NUMBER OF FIBERS & TYPE TO BE			
EEL COMBINATION MAST ARM SEMBLY AND POLE WITH LUMINAIRE	P	O->X	• × · · ·	COILABLE NONMETALLIC CONDUIT (EMPTY)		_	CNC	NOTED ON PLANS) GROUND ROD AT (C) CONTROLLER,			
TEEL COMBINATION MAST ARM	R _o	0	•	SYSTEM ITEM		\$	S	(H) HANDHOLE, (P) POST, (M) MAST ARM,		C	c _{ll}
SEMBLY AND POLE WITH PTZ CAMERA	PZC	<u>शिर</u> ्य	PU	INTERSECTION ITEM		I	ĬΡ	OR (S) SERVICE	DO-		
GNAL POST	R _O	0	•	REMOVE ITEM	R	•		CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF ∑∑		
MPORARY WOOD POLE (CLASS 5 OR TTER) 45 FOOT (13.7m) MINIMUM	R⊗	\otimes	•	RELOCATE ITEM ABANDON ITEM	A A			STEEL MAST ARM POLE AND	RMF		
Y WIRE	> R	>>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED			
NAL HEAD	3	₩		100 (200) 577 W771 0/ 170		(R)		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF CIIII		
GNAL HEAD CONSTRUCTION STAGES UMBERS INDICATE THE CONSTRUCTION STAGE)			2	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
GNAL HEAD WITH BACKPLATE	+\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	+£>	+-			R	R	FOUNDATION TO BE REMOVED	O-¤		
SNAL HEAD OPTICALLY PROGRAMMED	R 	~{>"P"	- ► "P"	SIGNAL FACE			Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
ASHER INSTALLATION DENOTES SOLAR POWER)	R O-E>"F"	o⊳ _{aka}	**************************************			(♦) (9)	∢ Y ∢ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	15
DESTRIAN SIGNAL HEAD		-1]	-			R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
DESTRIAN PUSHBUTTON DETECTOR	r ©	©	•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y G	EXISTING INTERSECTION LOOP DETECTOR		[E]	
CESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R © APS	®A ? S	APS			(*) (* 0)	4 Y 4 G	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR		
UMINATED SIGN	R ©	©	F			<u>رگاگا</u> ۳۳۳	"p"	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR		
O LEFT TURN"	_	ZZ/	9	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING			PIS
LUMINATED SIGN O RIGHT TURN"		®	®	12" (300mm) PEDESTRIAN SIGNAL HEAD				(SYSTEM) DETECTOR		a	
TECTOR LOOP, TYPE I	· No come ^{17 N} o es P			INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		[PS]	PS
		e	 ↓	12" (300mm) PEDESTRIAN SIGNAL HEAD			*		CVRADO	NI C	
EFORMED DETECTOR LOOP		↓ P ↓	P	INTERNATIONAL SYMBOL, SOLID		(*)		RAILROAD	2 A IAIR ()F9	
CROWAVE VEHICLE SENSOR	R (M))	(M)	(M)	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		© C S D	₽ C			EXISTING	PROPOSED
DEO DETECTION CAMERA	R ŪĴĴ	ŢŢ	② •	RADIO INTERCONNECT	- R O	-44+0	· \$: · • • • • • • • • • • • • • • • • • • •	RAILROAD CONTROL CABINET		The state of the s	
DEO DETECTION ZONE				RADIO REPEATER	R (ERR)	[ERR]	RR	RAILROAD CANTILEVER MAST ARM	Σ	302==2 X	XOX X
N, TILT, ZOOM CAMERA	[? [£1 <u>7</u>]]	er p	₽₹	DENOTES NUMBER OF CONDUCTORS, ELECTRIC	1,675	FERM		FLASHING SIGNAL		∑≎ ∑	X ⊖ X
	R(W)	(W)		CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		(5) 		CROSSING GATE		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	X-X-
RELESS DETECTOR SENSOR RELESS ACCESS POINT	R	w	(W)	GROUND CABLE IN CONDUIT		①	(1)	CROSSBUCK		≥ ≤	*
NAME = USER NAME = baserd1		SIGNED - DAG/BCK	REVISED	NO. 6 SOLID COPPER (GREEN)	,	~			EAII		i ITOTA
:.work\PWt00T\8AJERDL\dði20315\ts05.dgn	DR	RAWN - BCK	REVISED	STATE	OF ILLINOIS	S		DISTRICT ONE	F.A.U. RTE. 2531	SECTION 11-00296-00-Tu	COUNTY TOTAL SHEETS DUPAGE/WILL 48
PLOT SCALE - 50.8000 / PLOT DATE - 11/4/2009		NECKED - DAD NTE - 10-28-09	REVISED REVISED	DEPARTMENT	OF TRANSPO	PRTATION	SCALE: NON	STANDARD TRAFFIC SIGNAL DESIGN DETAILS IE SHEET NO. 6 OF 6 SHEETS STA. TO STA.		TS-05 D DIST, NO. 1 ILLINOIS FE	CONTRACT NO.

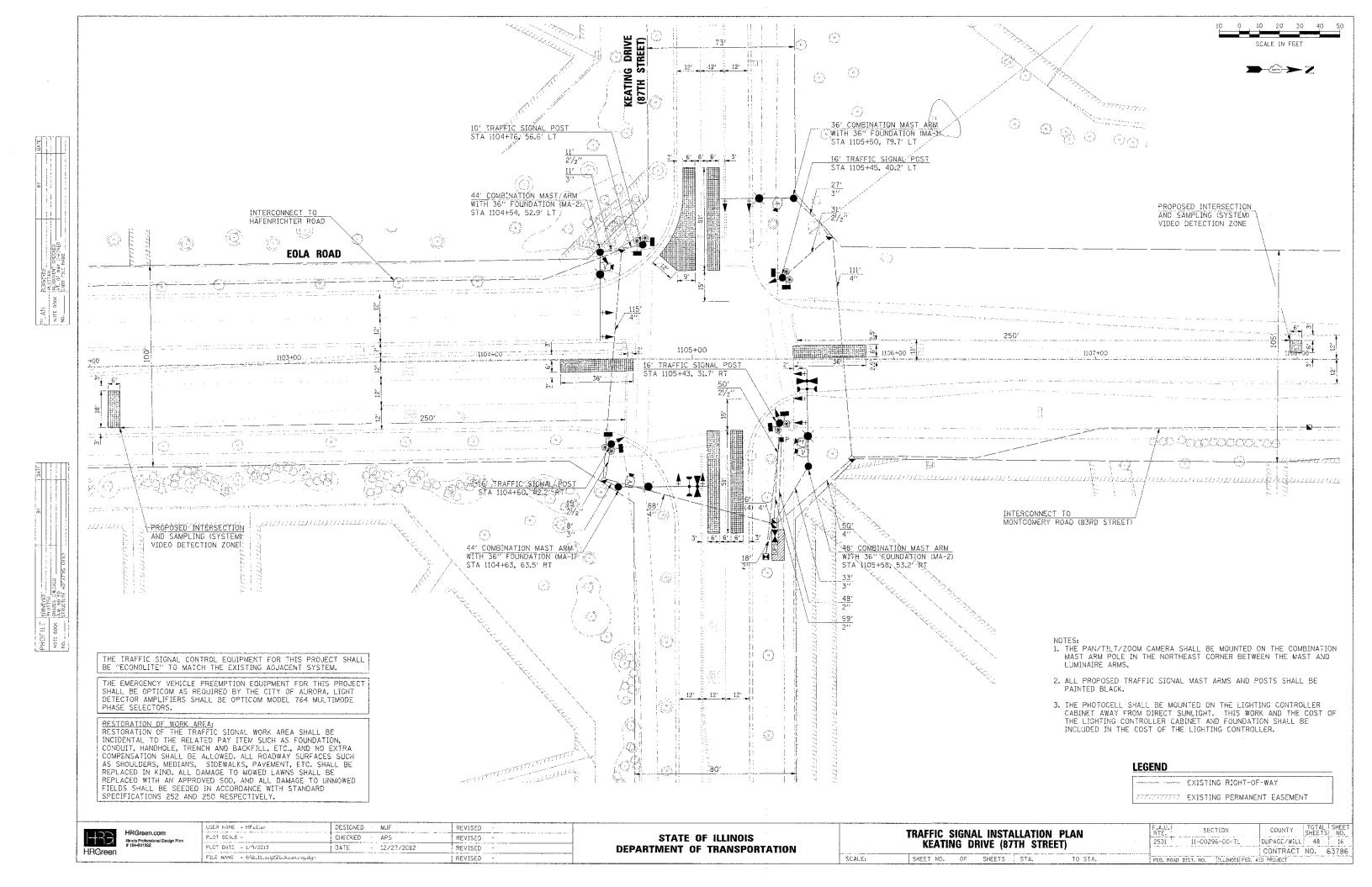


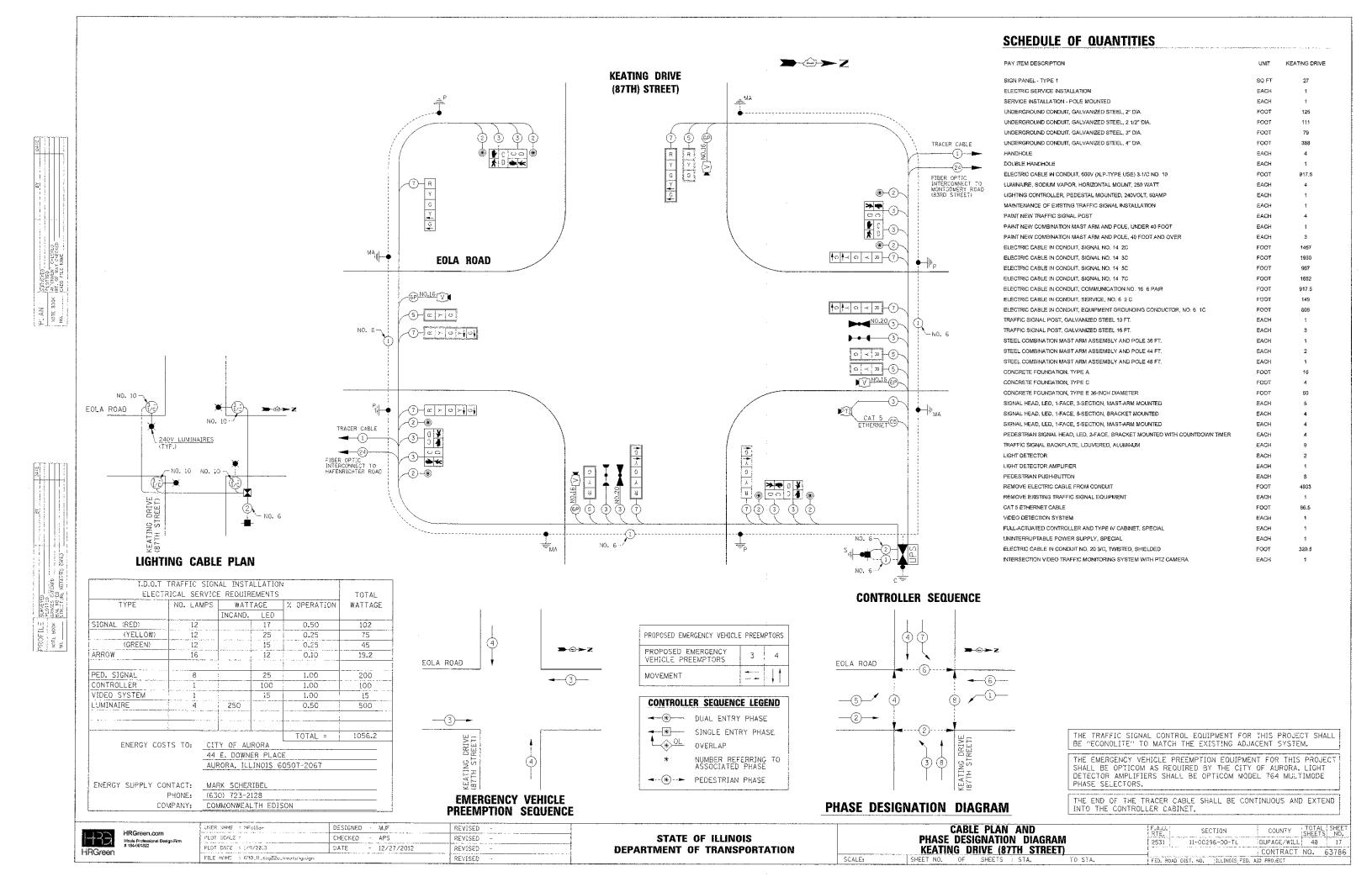


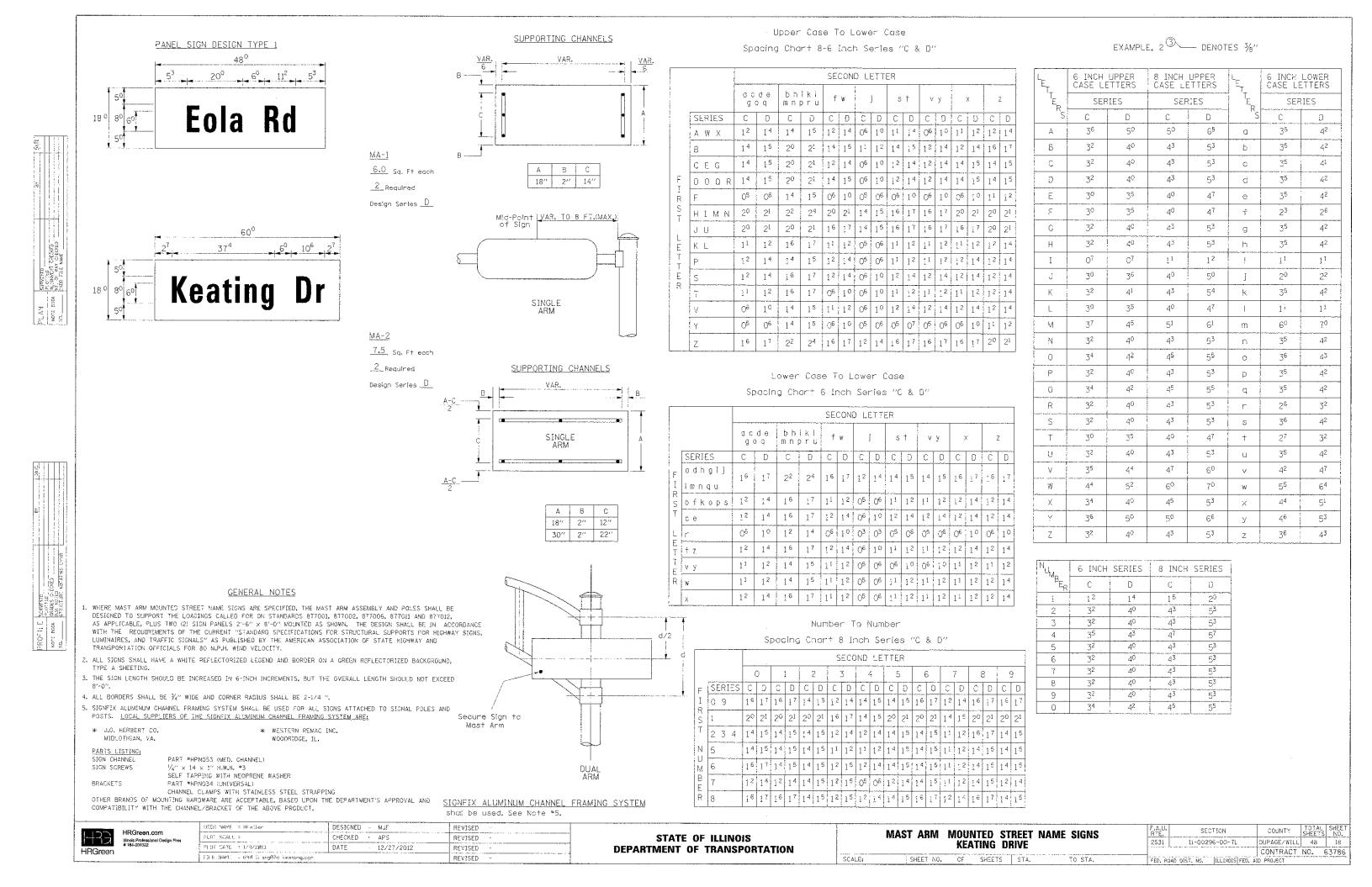


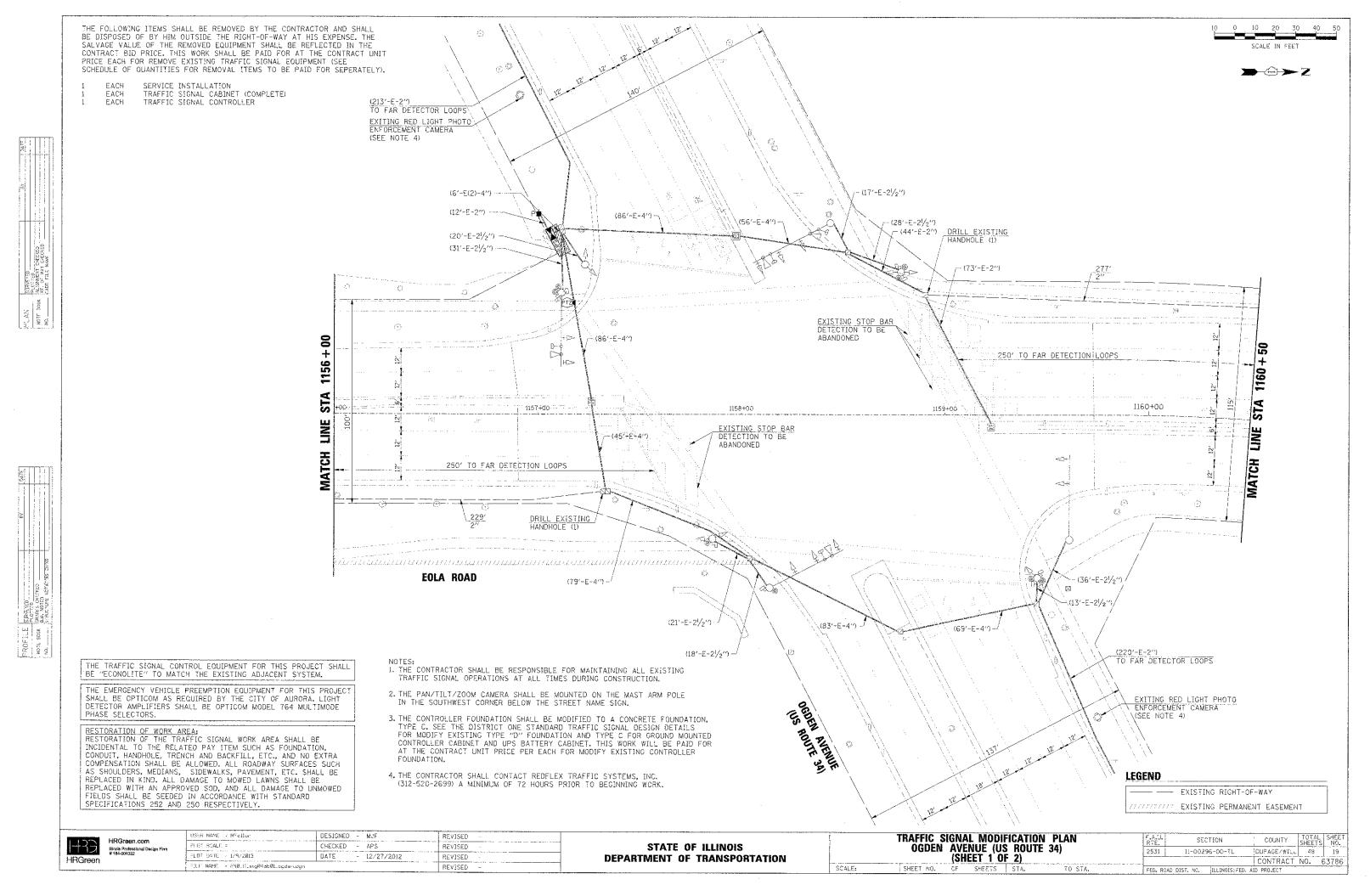






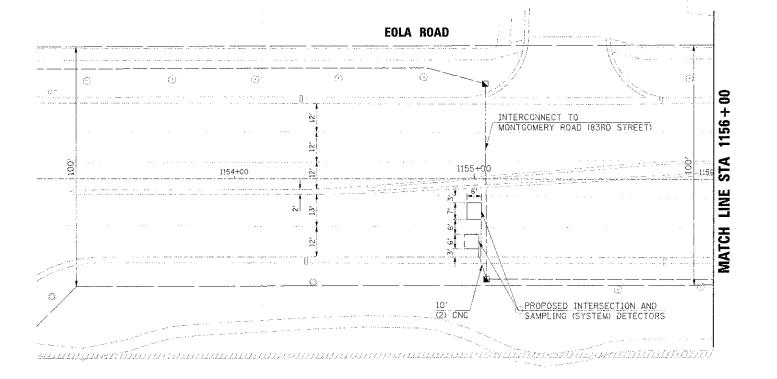


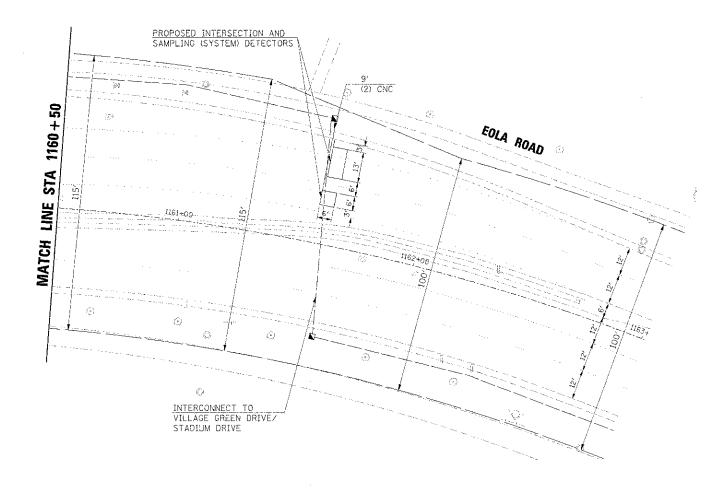




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LEGEND

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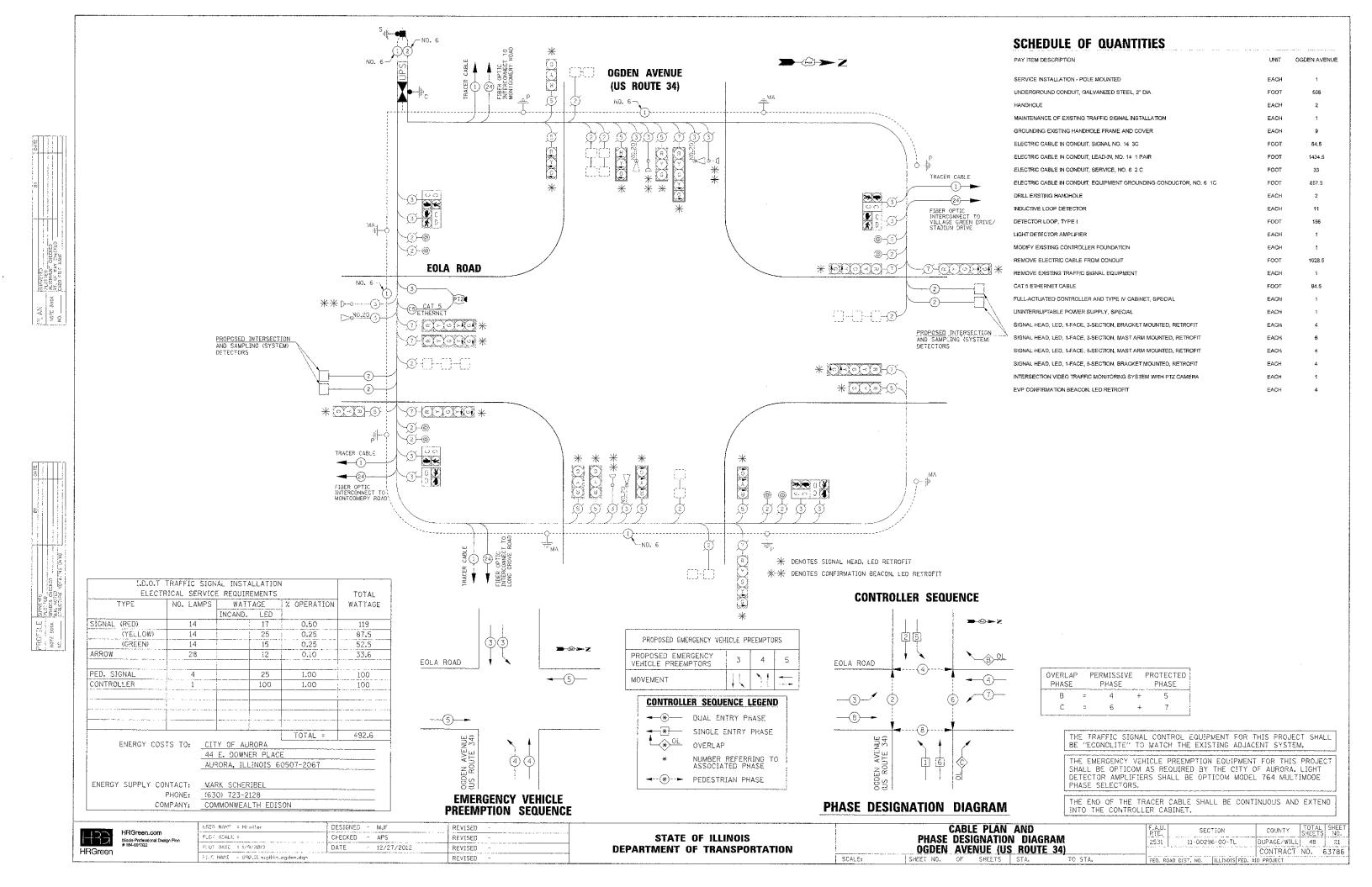
RESTORATION OF WORK AREA:
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE
INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION,
CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA
COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH
AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE
REPLACED IN KIND, ALL DAMAGE TO MOWED LAWNS SHALL BE
REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED
FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD
SPECIFICATIONS 252 AND 250 RESPECTIVELY.

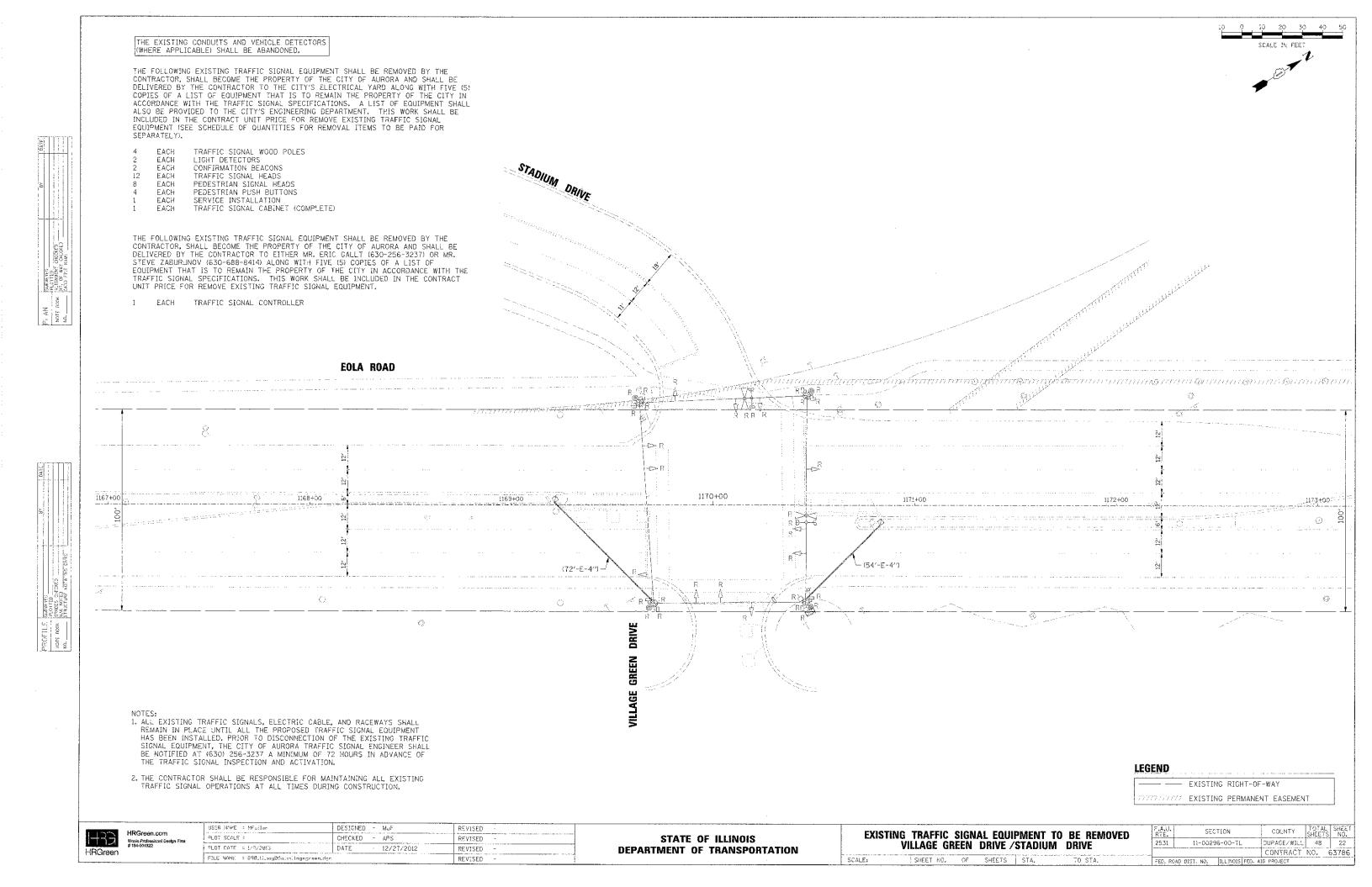
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

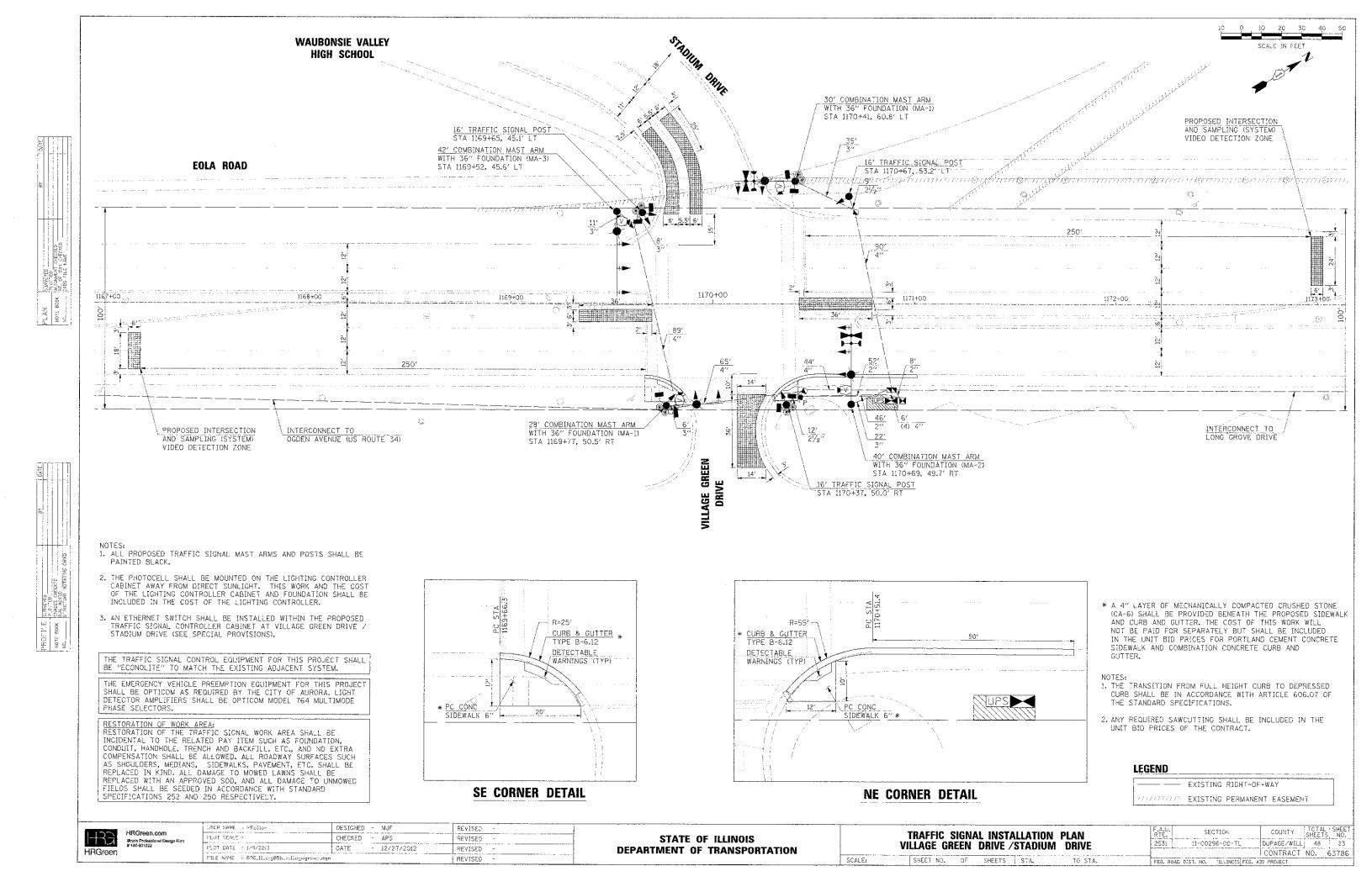
TRAFFIC SIGNAL MODIFICATION PLAN OGDEN AVENUE (US ROUTE 34) (SHEET 2 OF 2)

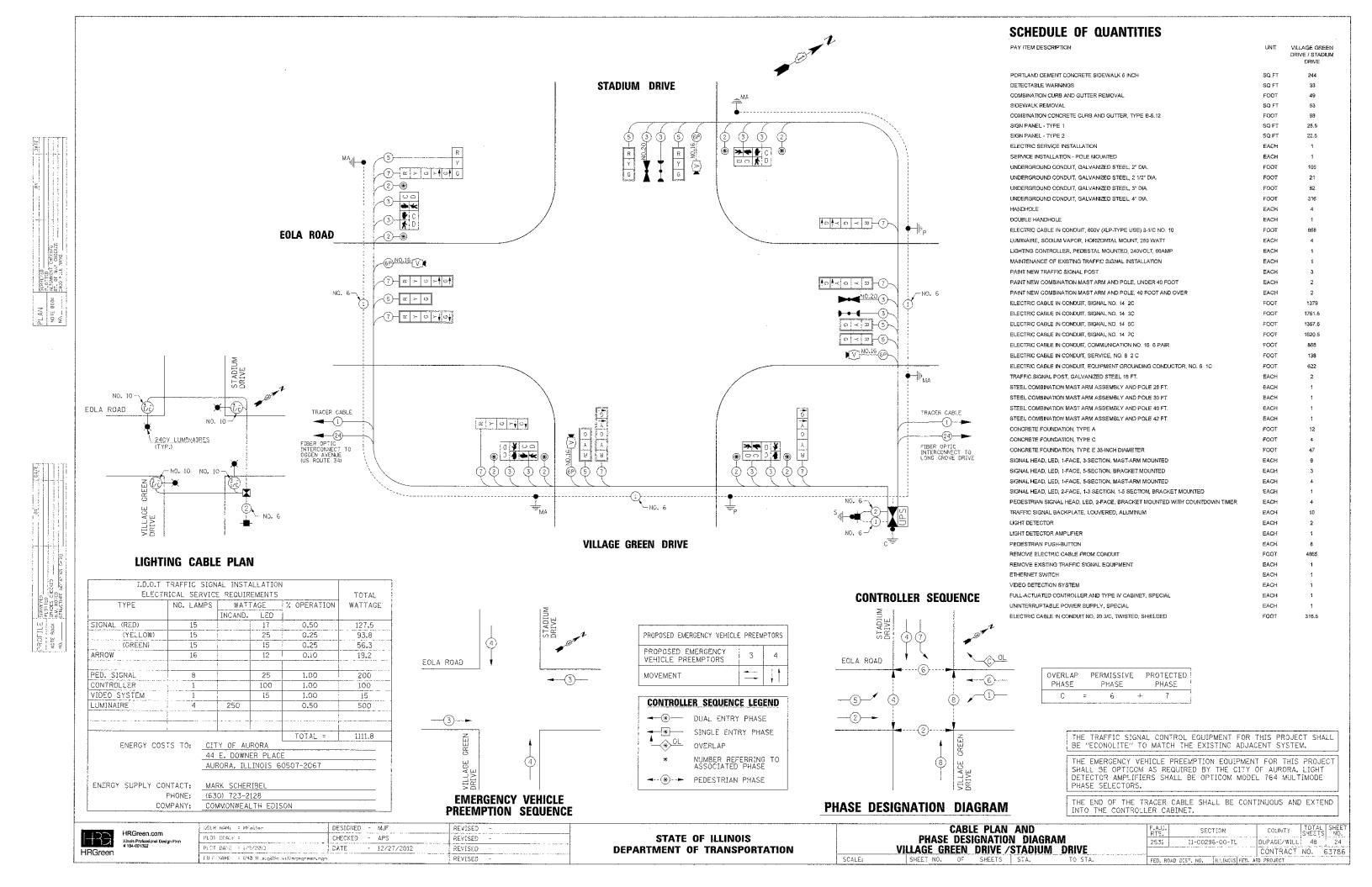
SHEET NO. OF SHEETS STA. TO STA.

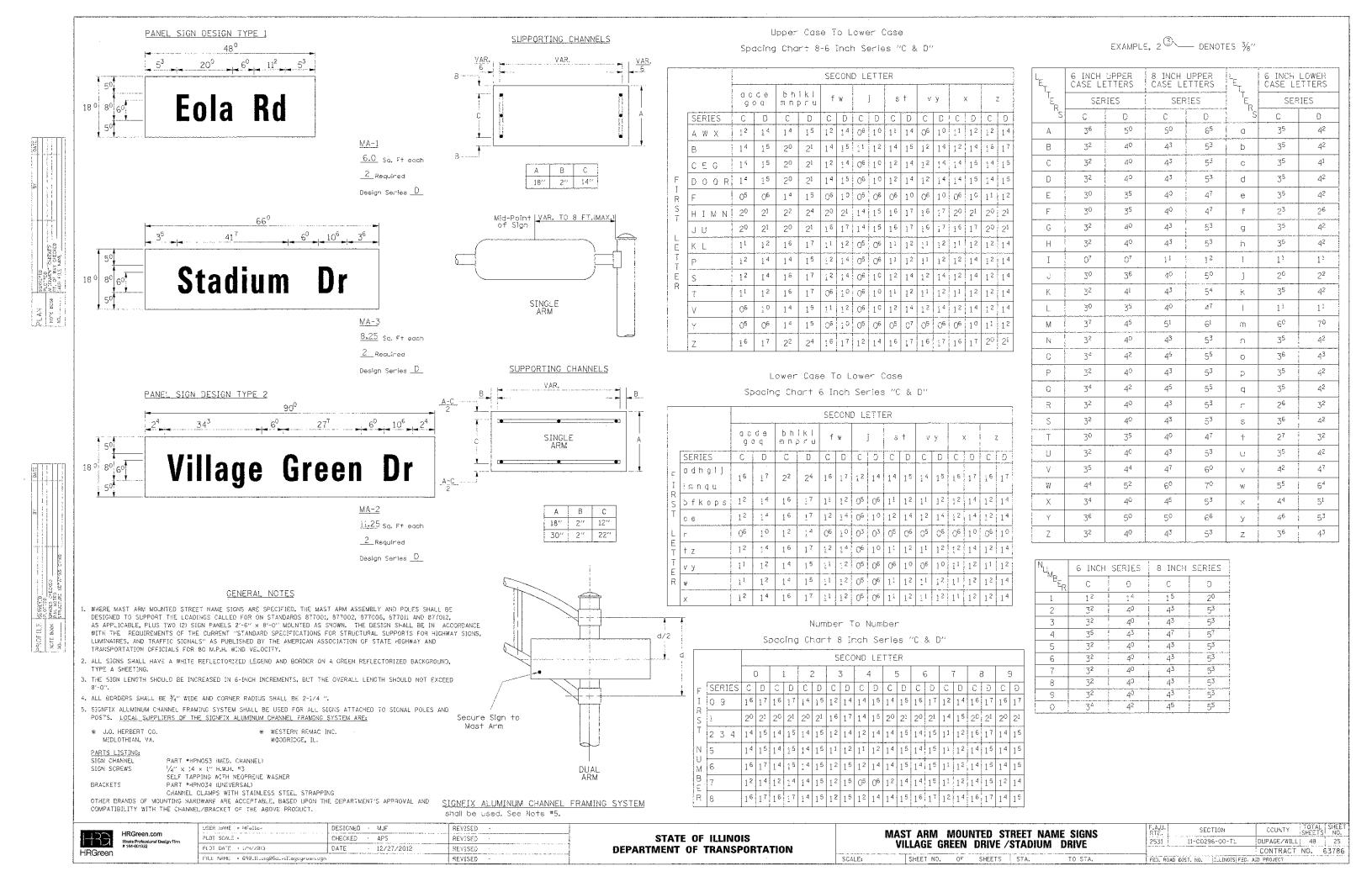
A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
531	11-00296-00-7L	DUPAGE/WILL	48	20
		CONTRACT	NO. 6	3786
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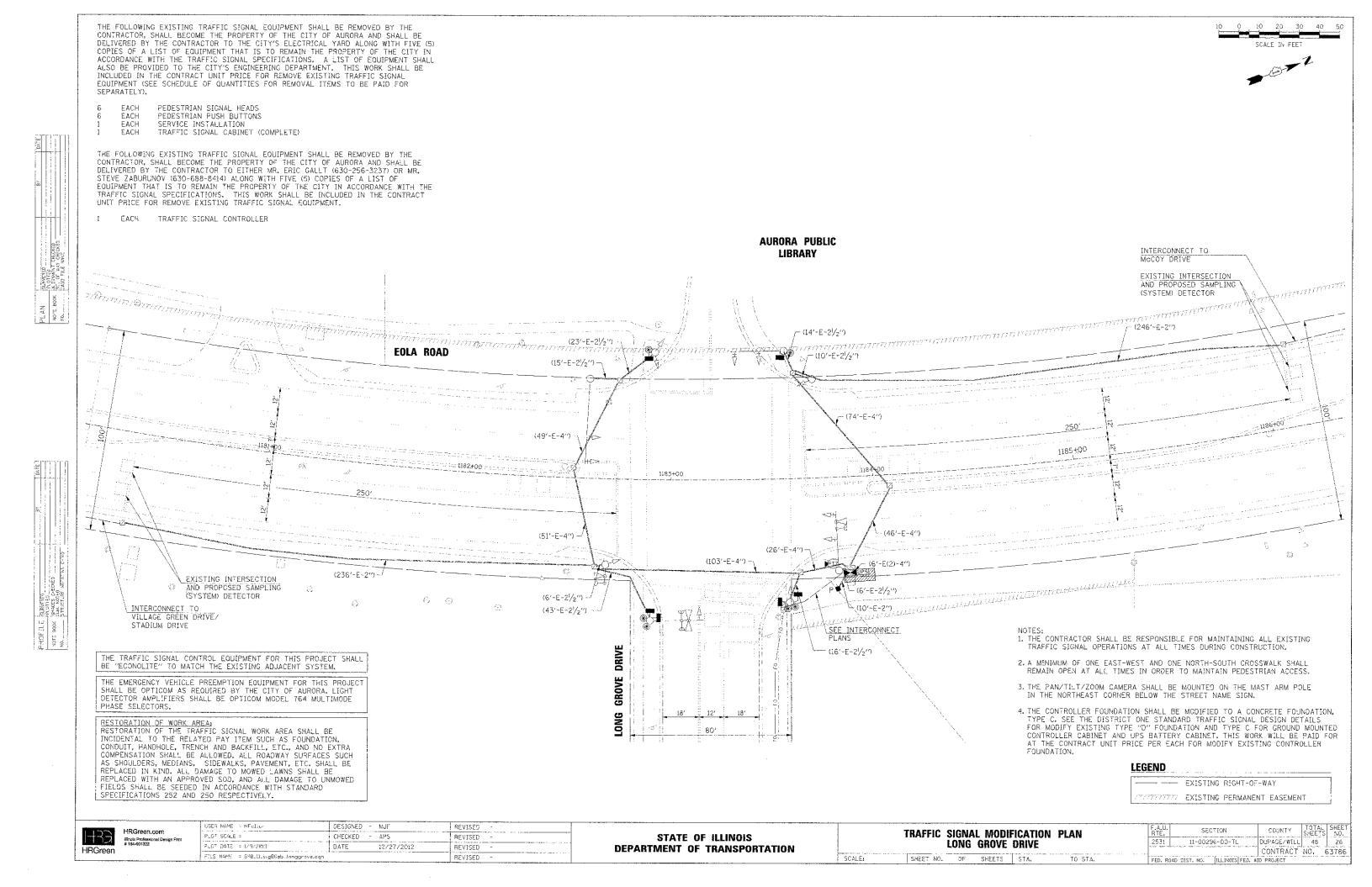


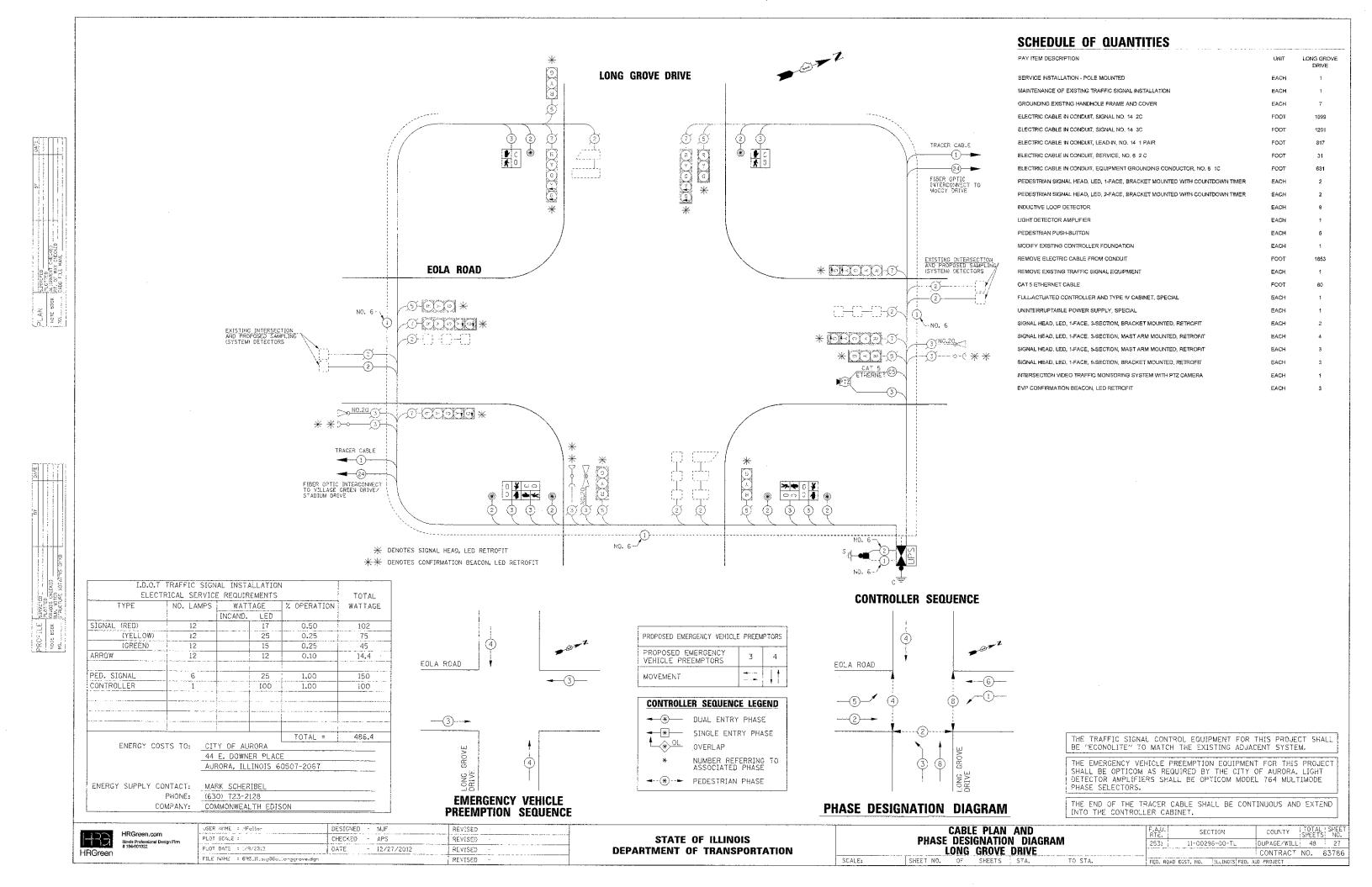


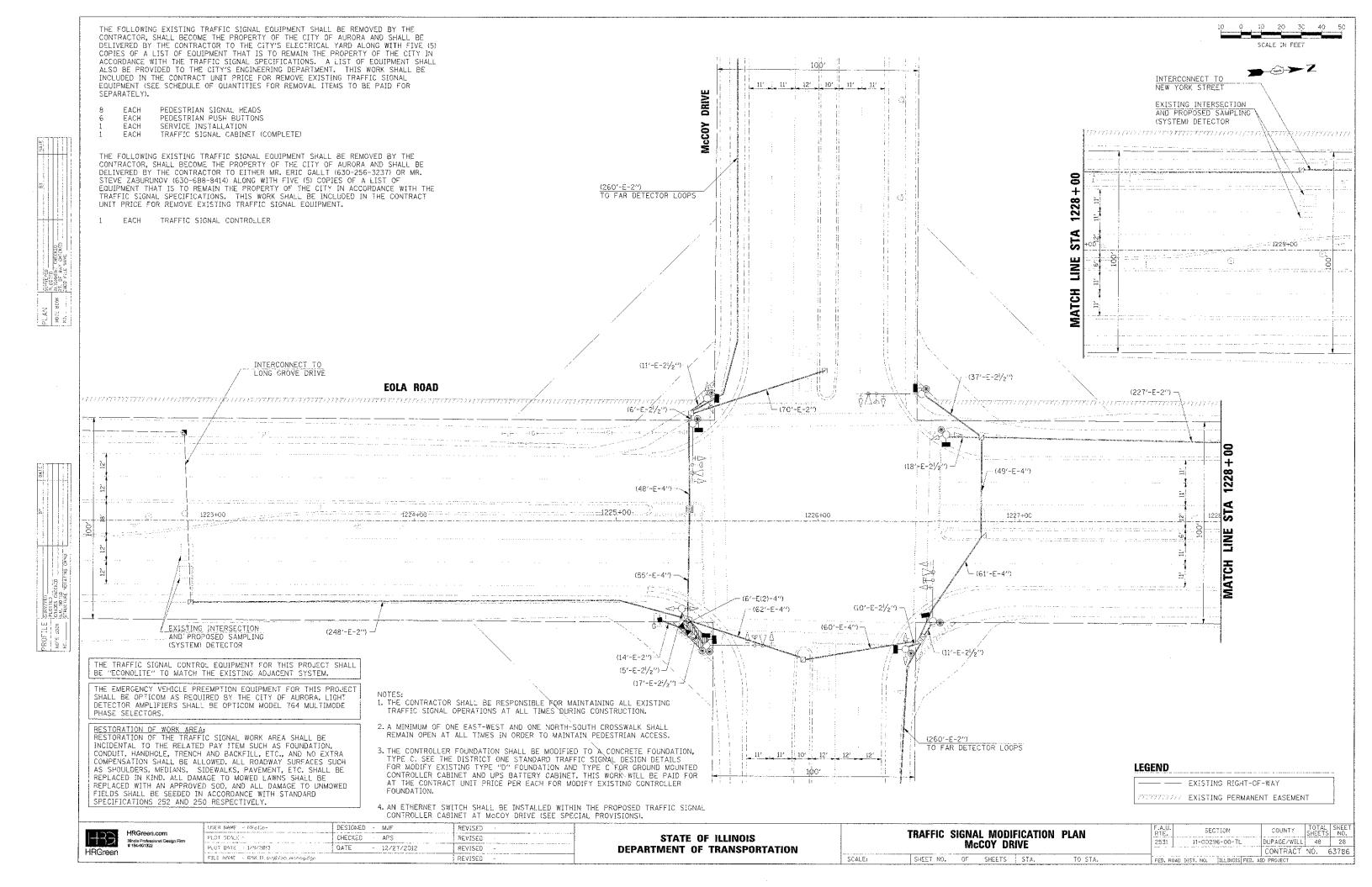


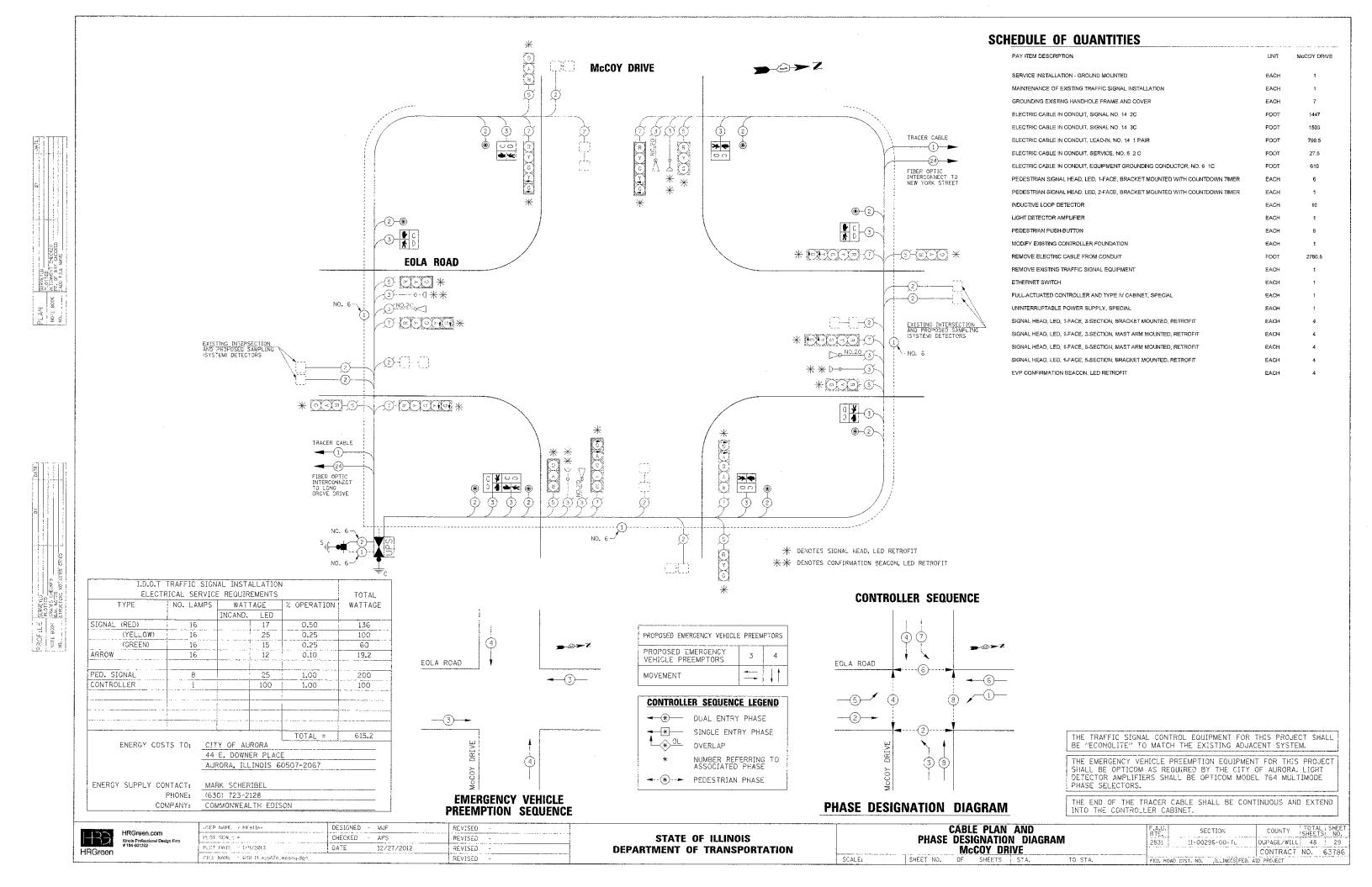


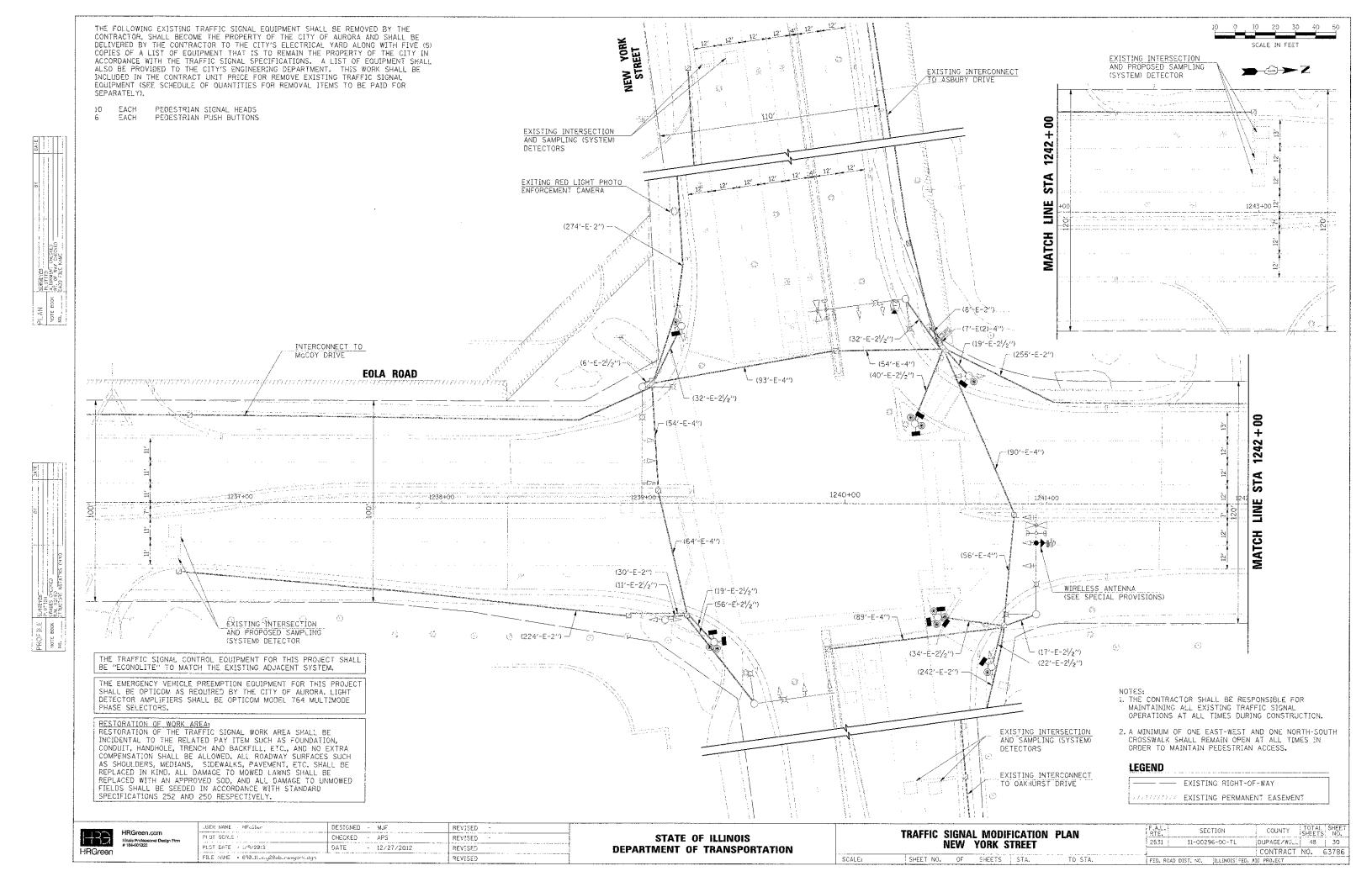


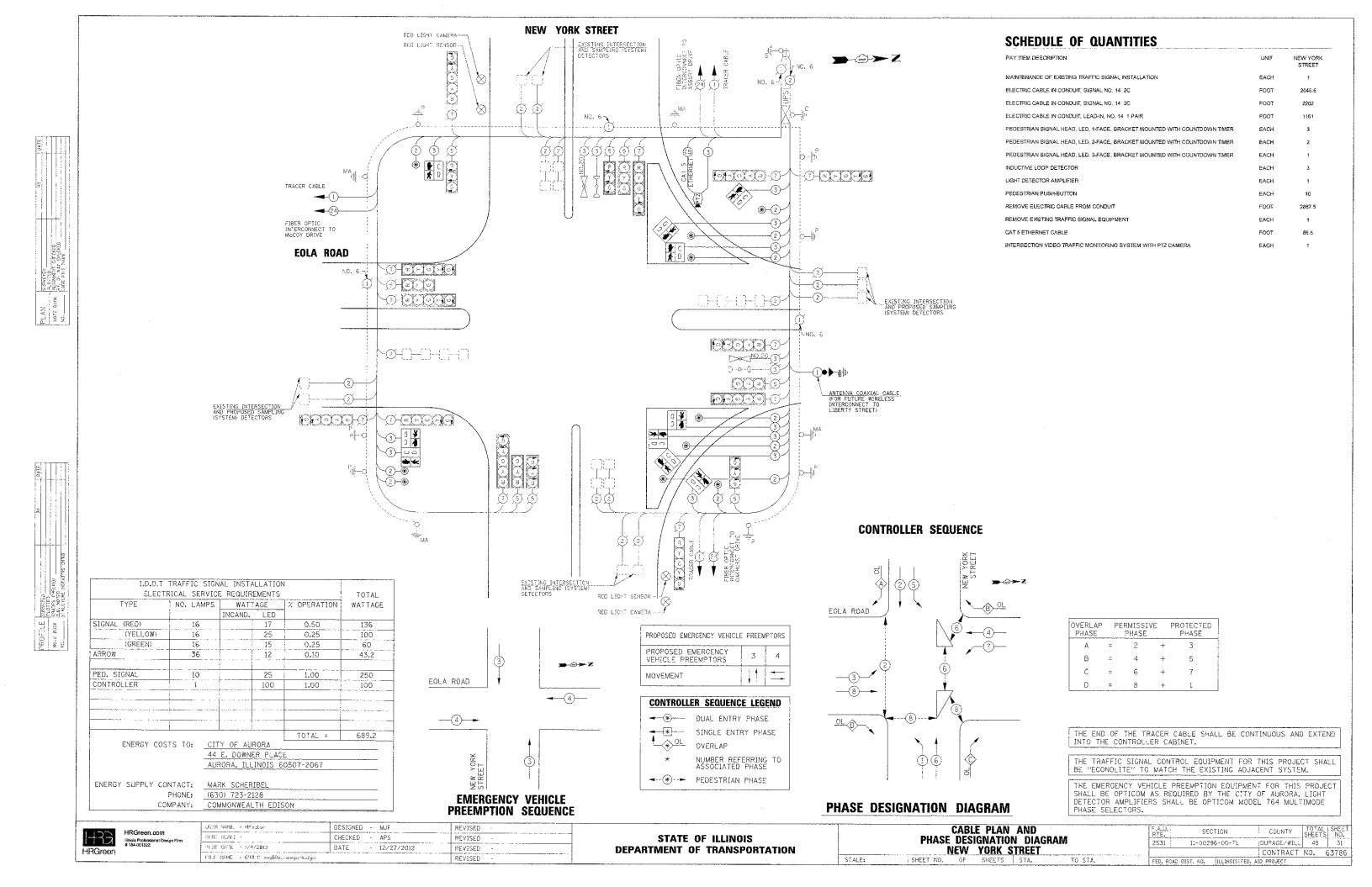


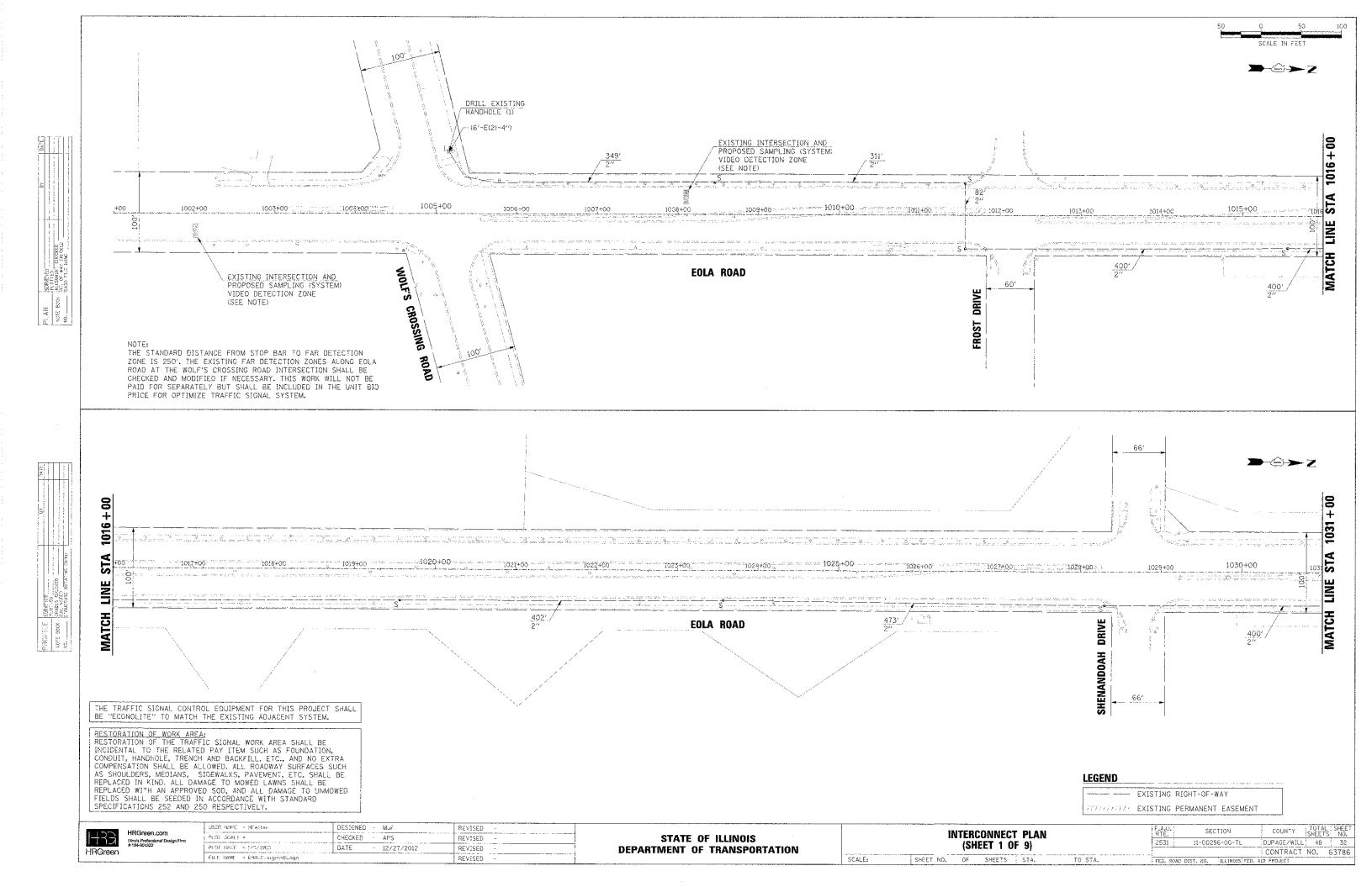


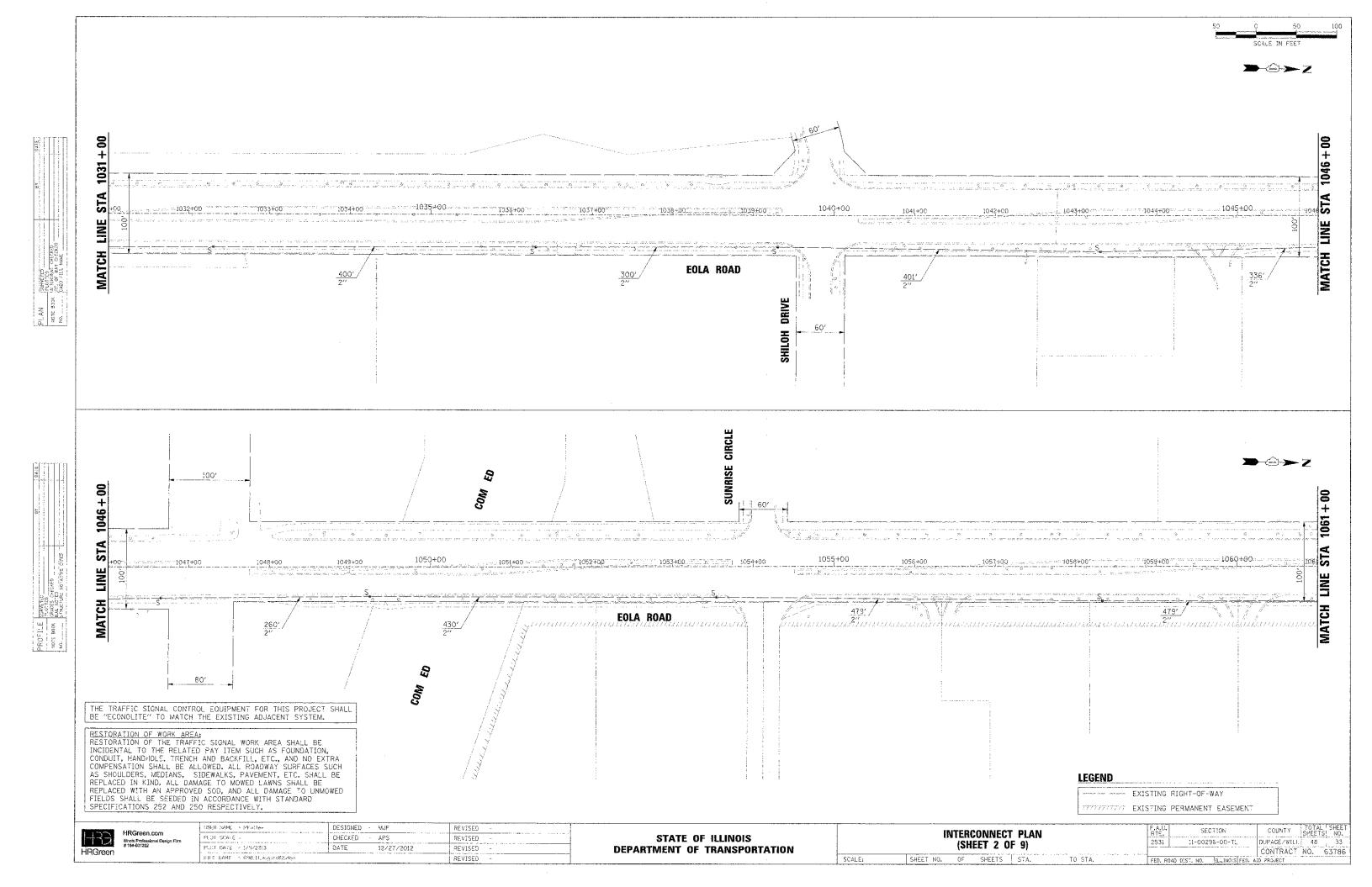


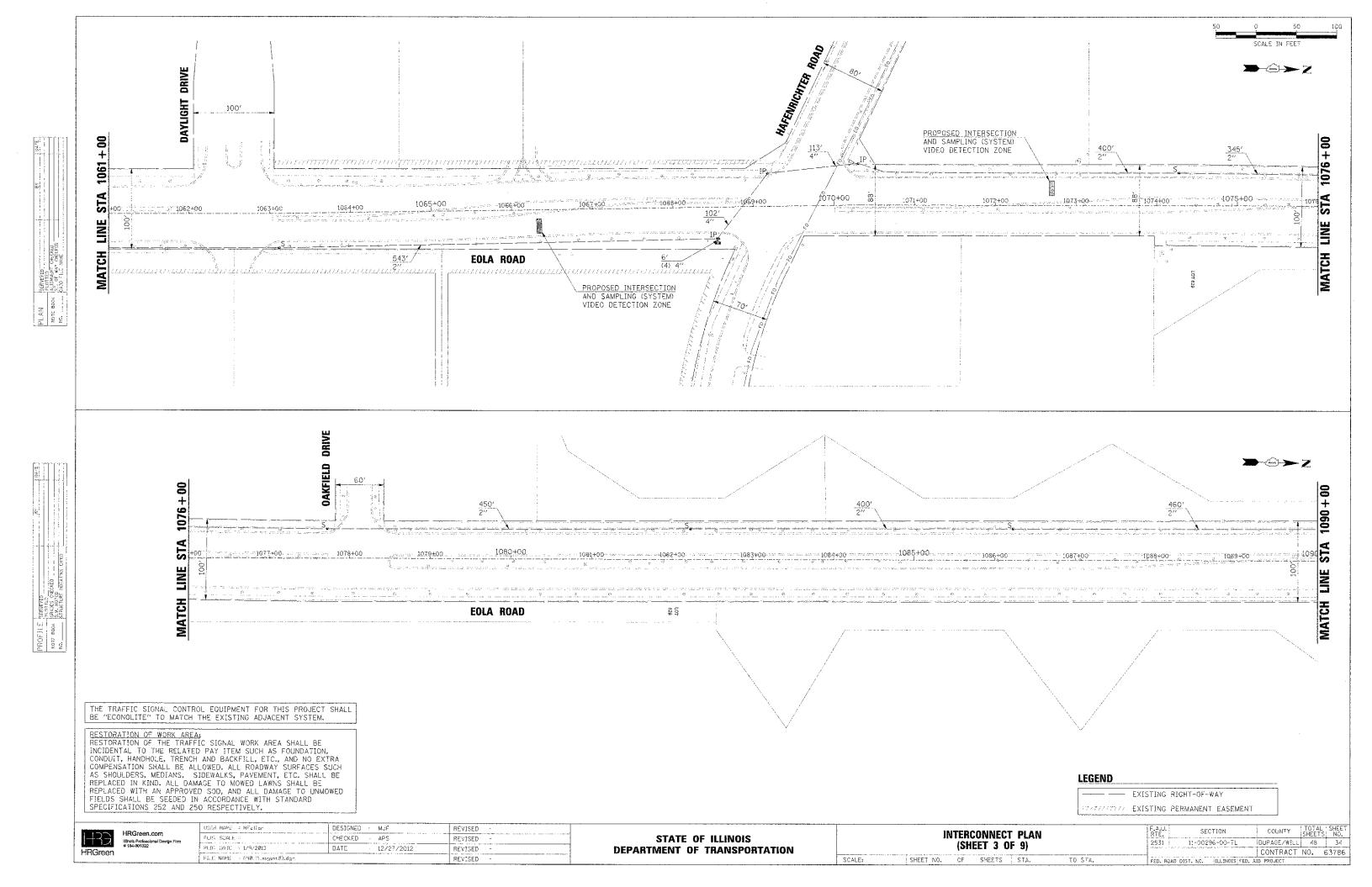


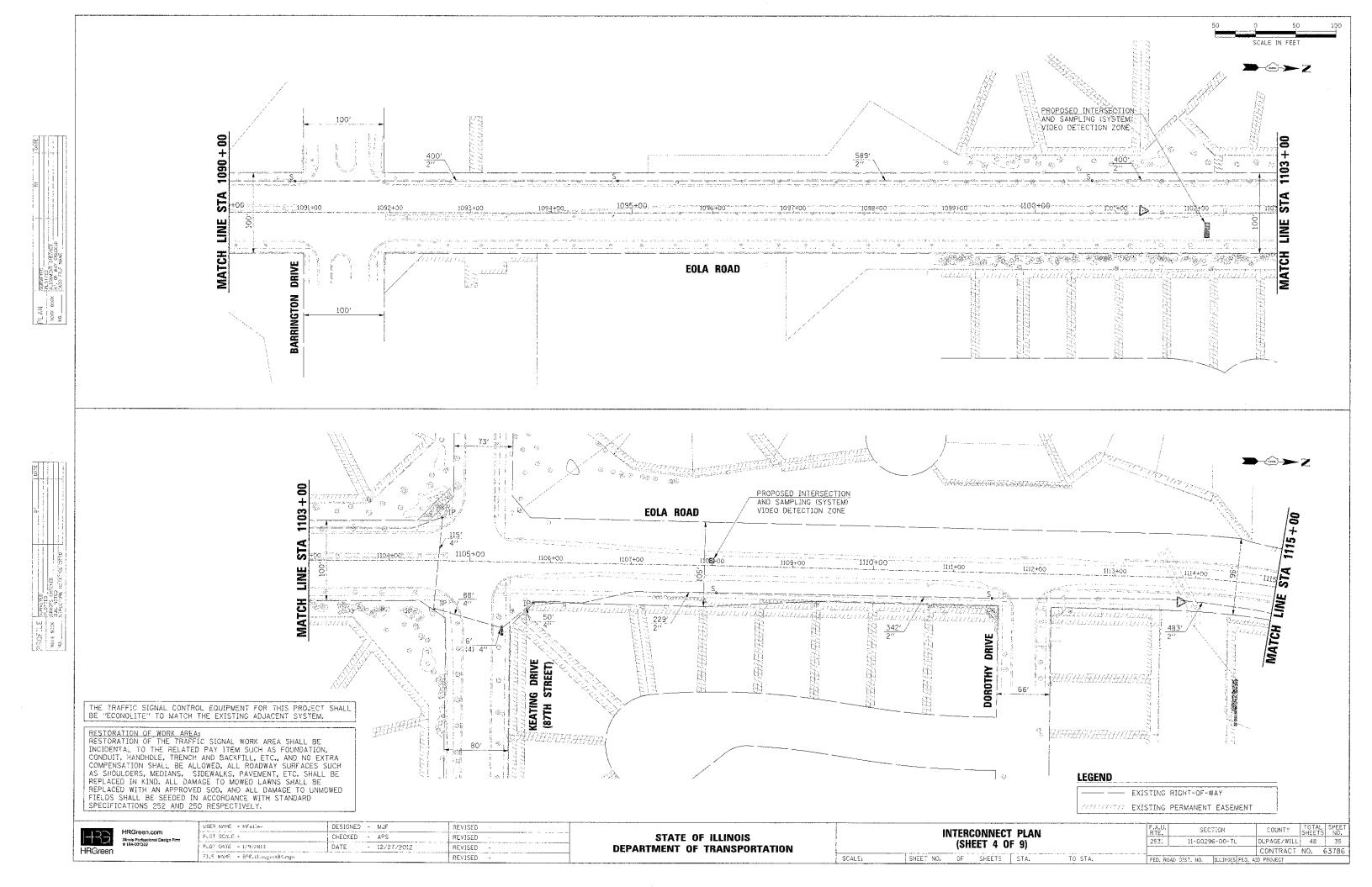


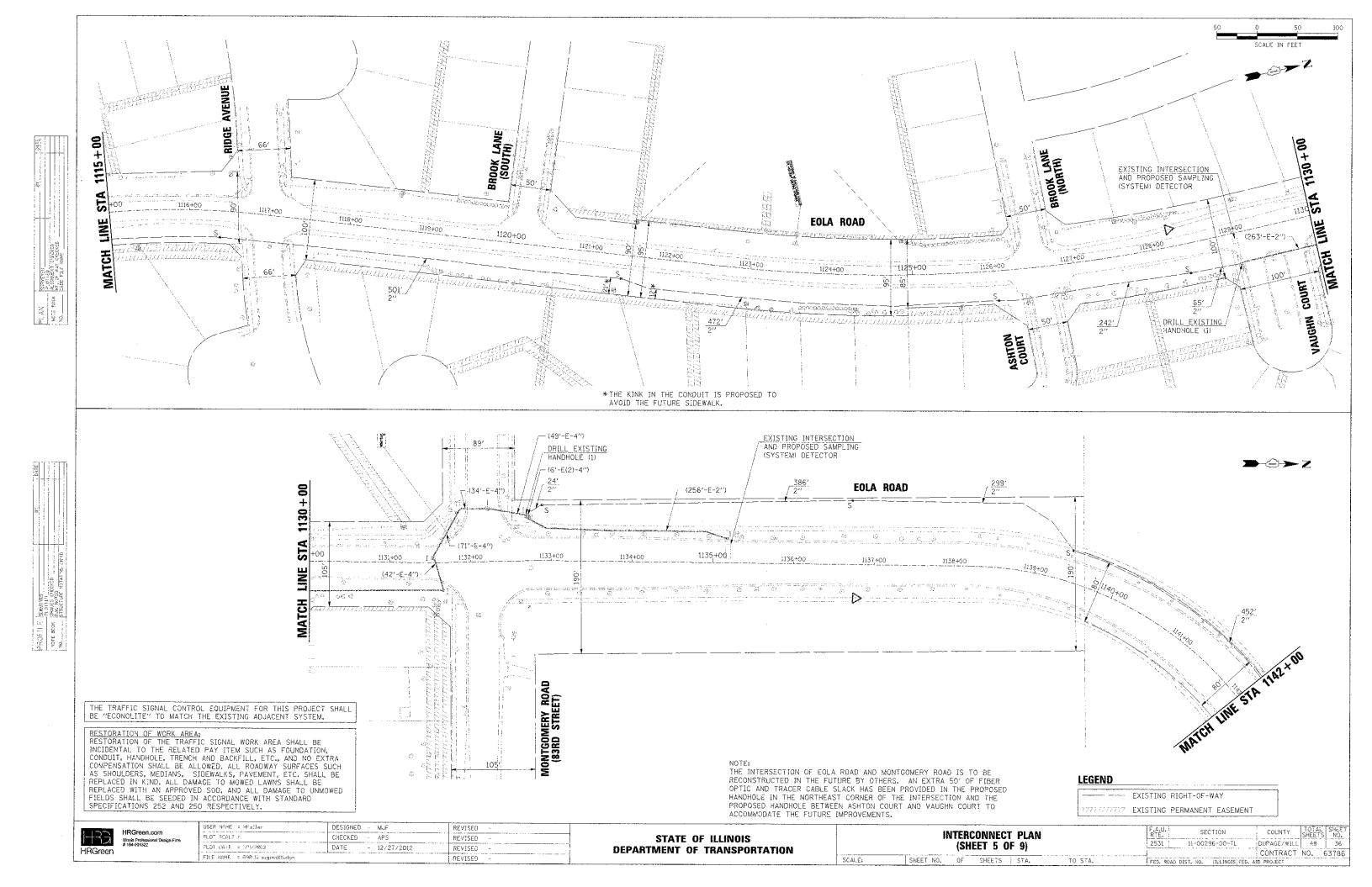


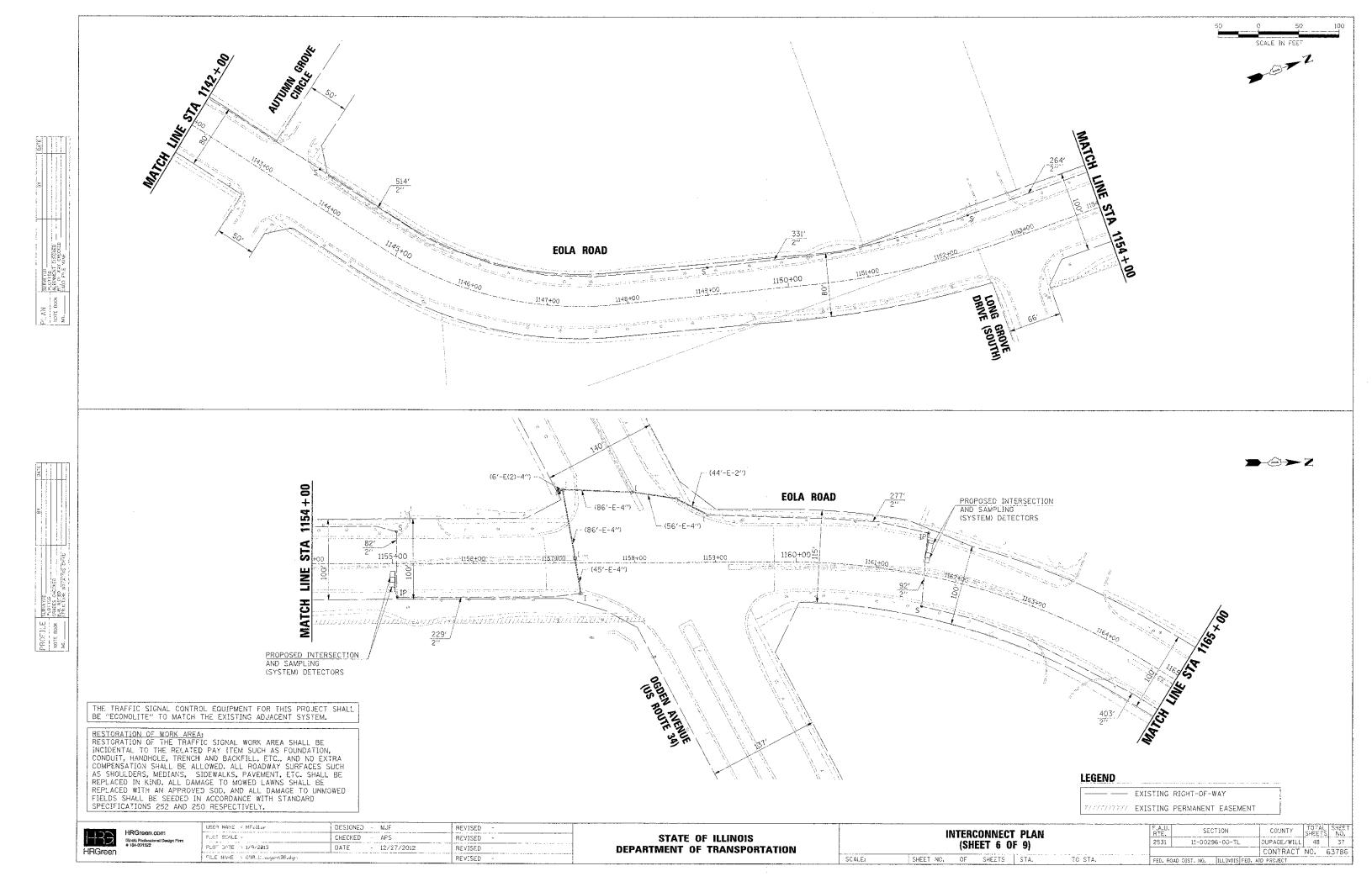


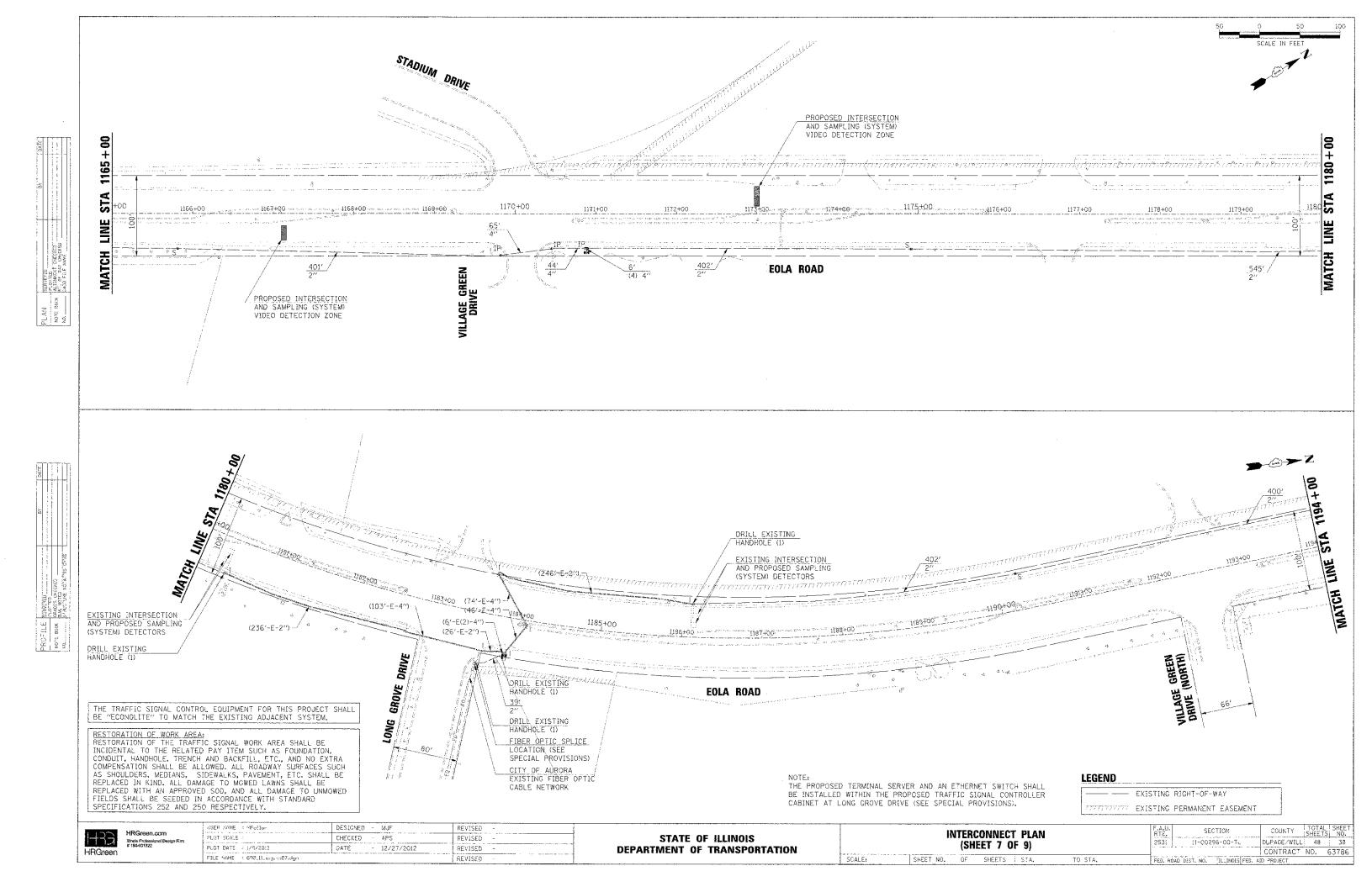


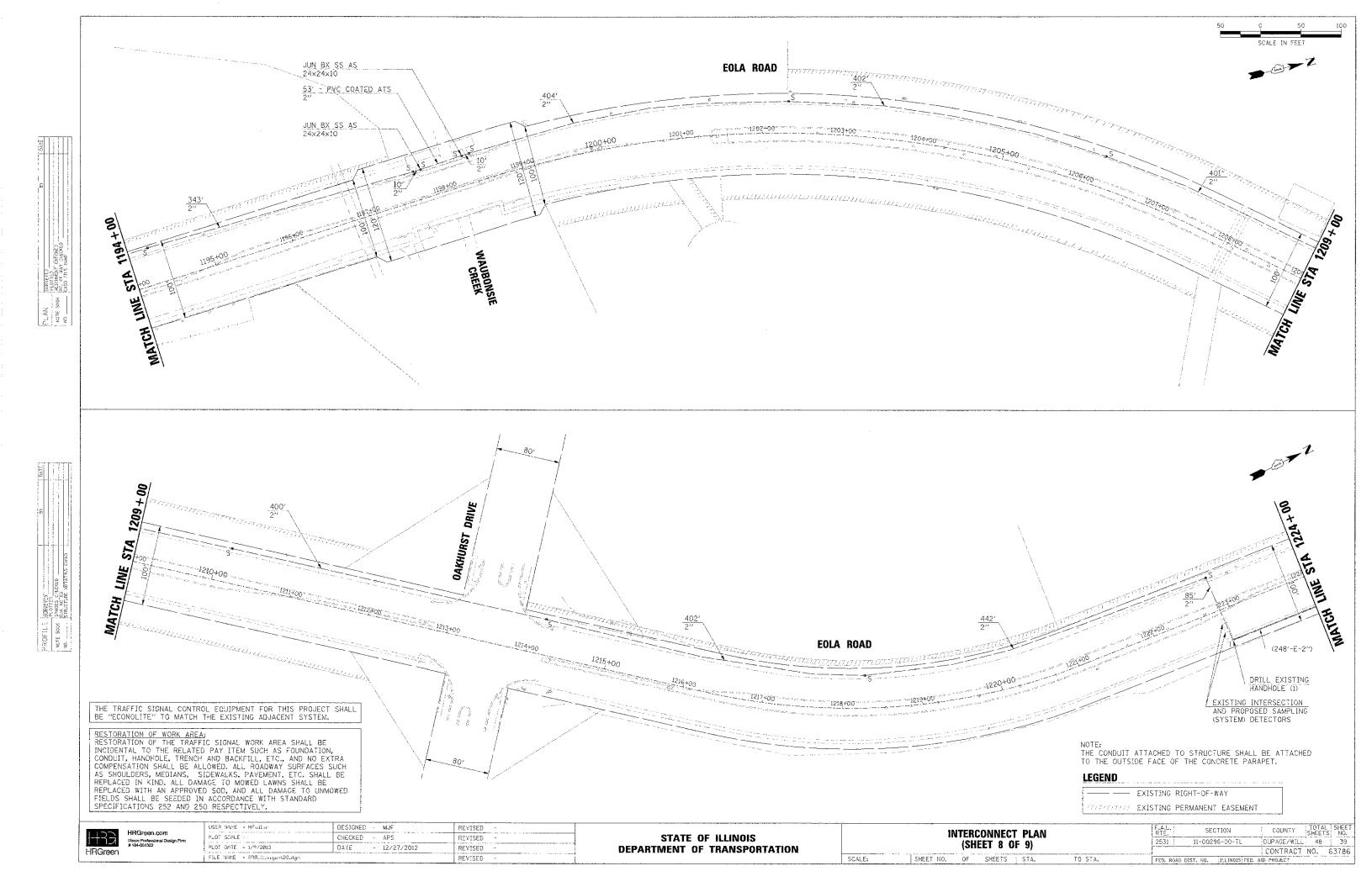


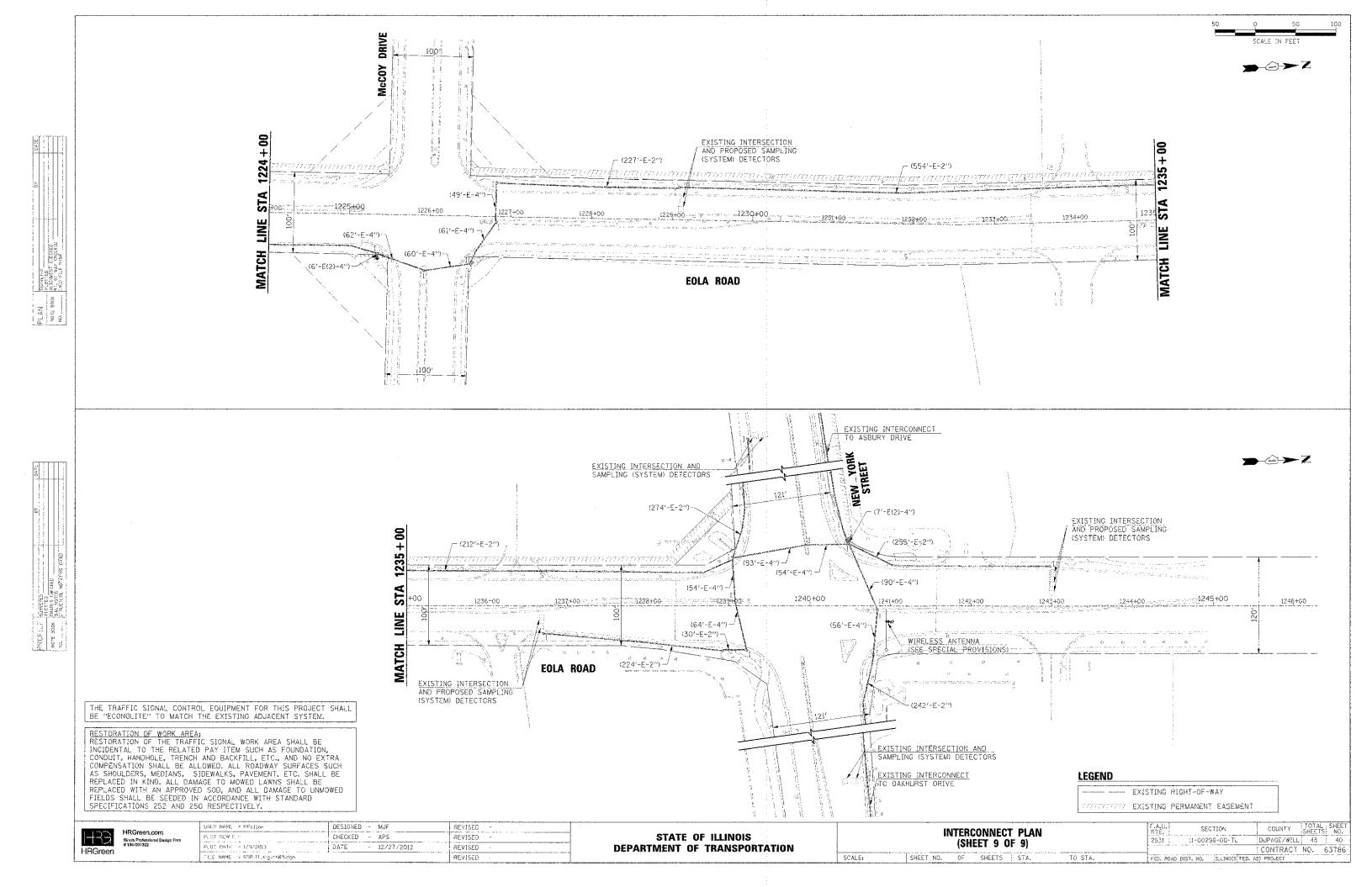


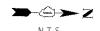


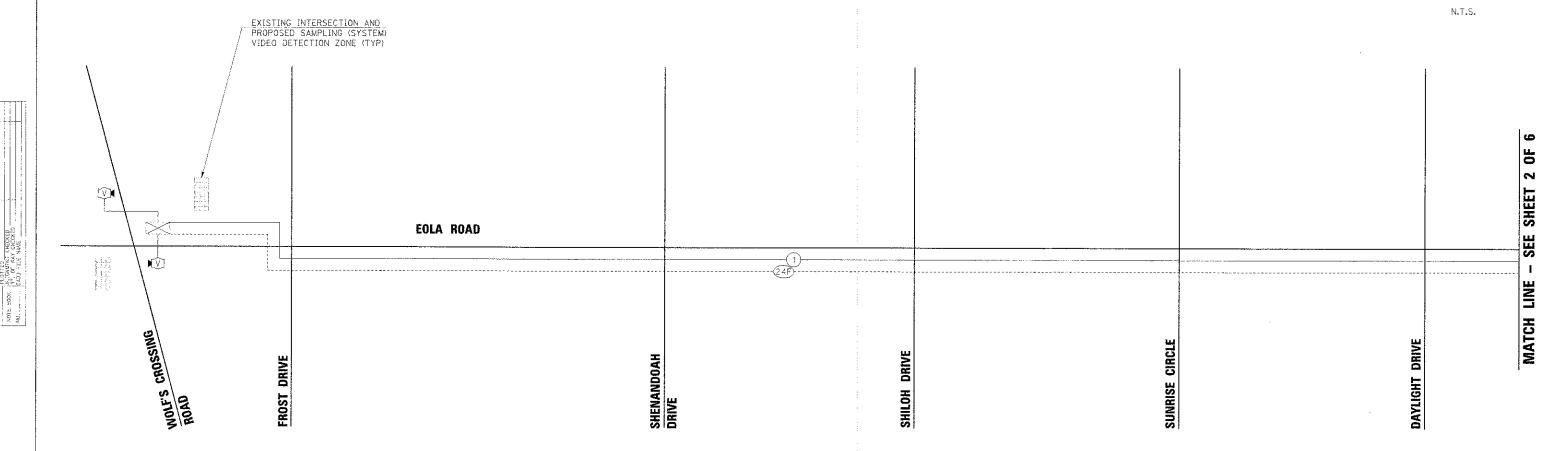












SCHEDULE OF QUANTITIES

PAY ITEM DESCRIPTION	UNIT	INTERCONNECT
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	20119
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	53
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	2
HANDHOLE	EACH	49
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	8
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	25702
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	25702
DRILL EXISTING HANDHOLE	EACH	8
FIBER OPTIC CABLE SPLICE	EACH	1
RADIO ANTENNA	EACH	1
WIRELESS ETHERNET RADIO	EACH	1
ETHERNET SWITCH	EACH	1
TERMINAL SERVER	EACH	1
CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	LSUM	1
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

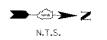
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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USER NAME = MFellar	DESIGNED		MJF	REVISED	-
PLOT SCALE =	CHECKED		APS	REVISED	
PLOT BANG = 1/9/2003	DATE	-	12/27/2012	REVISED	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(SHEET 1 OF 6)	2531	11-00296-00-TL	DUPAGE/WILL	46	41
**************************************			CONTRACT	NO. 6	3786
SHEET NO. OF SHEETS STA. TO STA.	FEC. ROAD	DIST. NO. ILLINOIS FED. AL	C PROJECT		



DRIVE SHEET 1 OF BROOK LANE (NORTH) Ų¶. \bigcirc 1 - 24F) -9 SEE SEE SHEET 3 OF 1 24F **EOLA ROAD** MATCH LINE PROPOSED INTERSECTION AND SAMPLING (SYSTEM) VIDEO DETECTION ZONE (TYP) KEATING DRIVE (87TH STREET) DOROTHY DRIVE RIDGE AVENUE BARRINGTON HAFENRICHTER ROAD MATCH LINE CITY OF AURORA EXISTING FIBER OPTIC CABLE NETWORK ASHTON COURT VAUGHN COURT

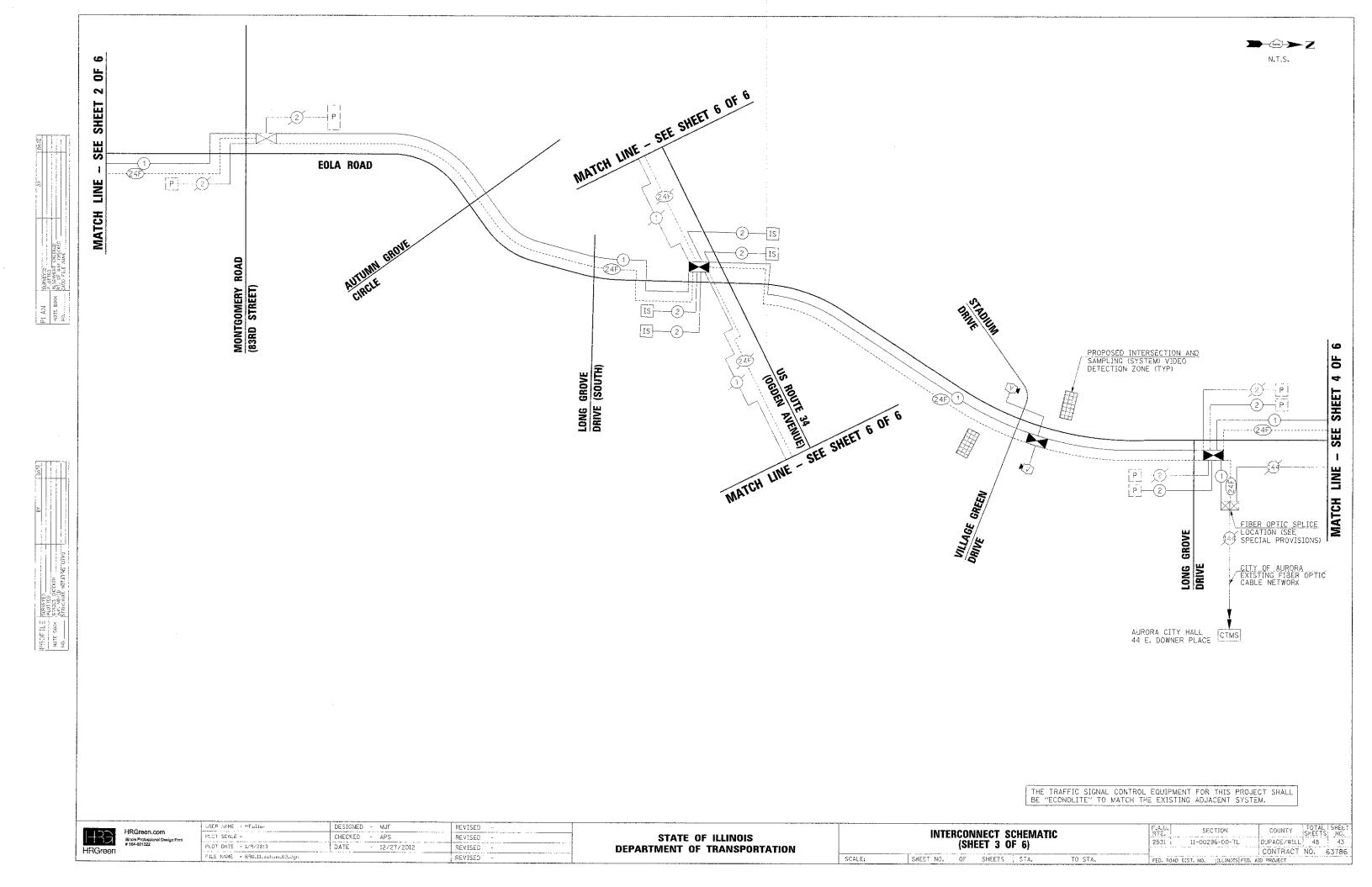
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

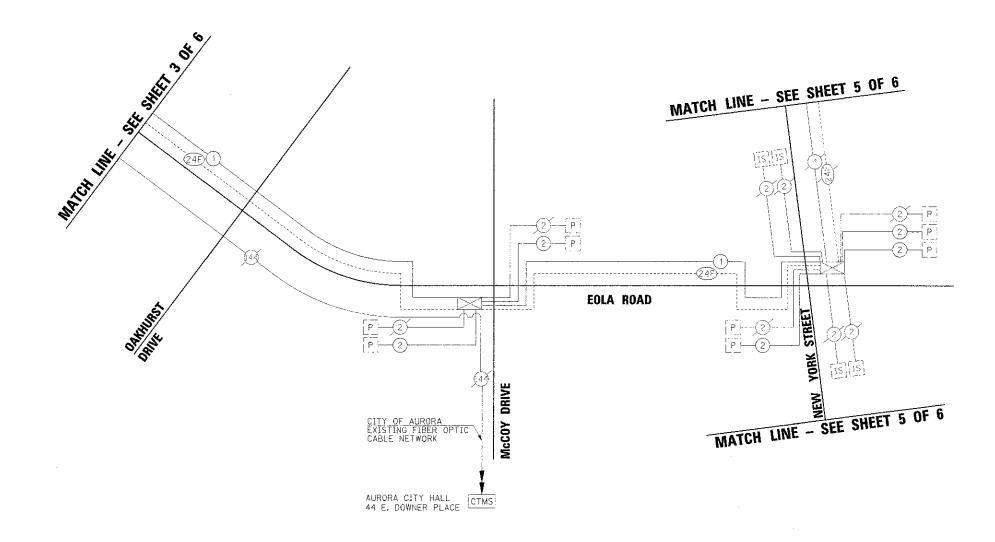
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INTERCONNECT SCHEMATIC		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(SHEET 2 OF 6)	2531	11-00296-00-TL	DUPAGE/WILL	48	42
			CONTRACT	NO.	53786
SHEET NO. OF SHEETS STA. TO STA	£EO. R	OAD DIST. NO. ILLINOIS FED. /	ID PROJECT		





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THE TRAFFIC SIGNAL CONTROL EQJIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

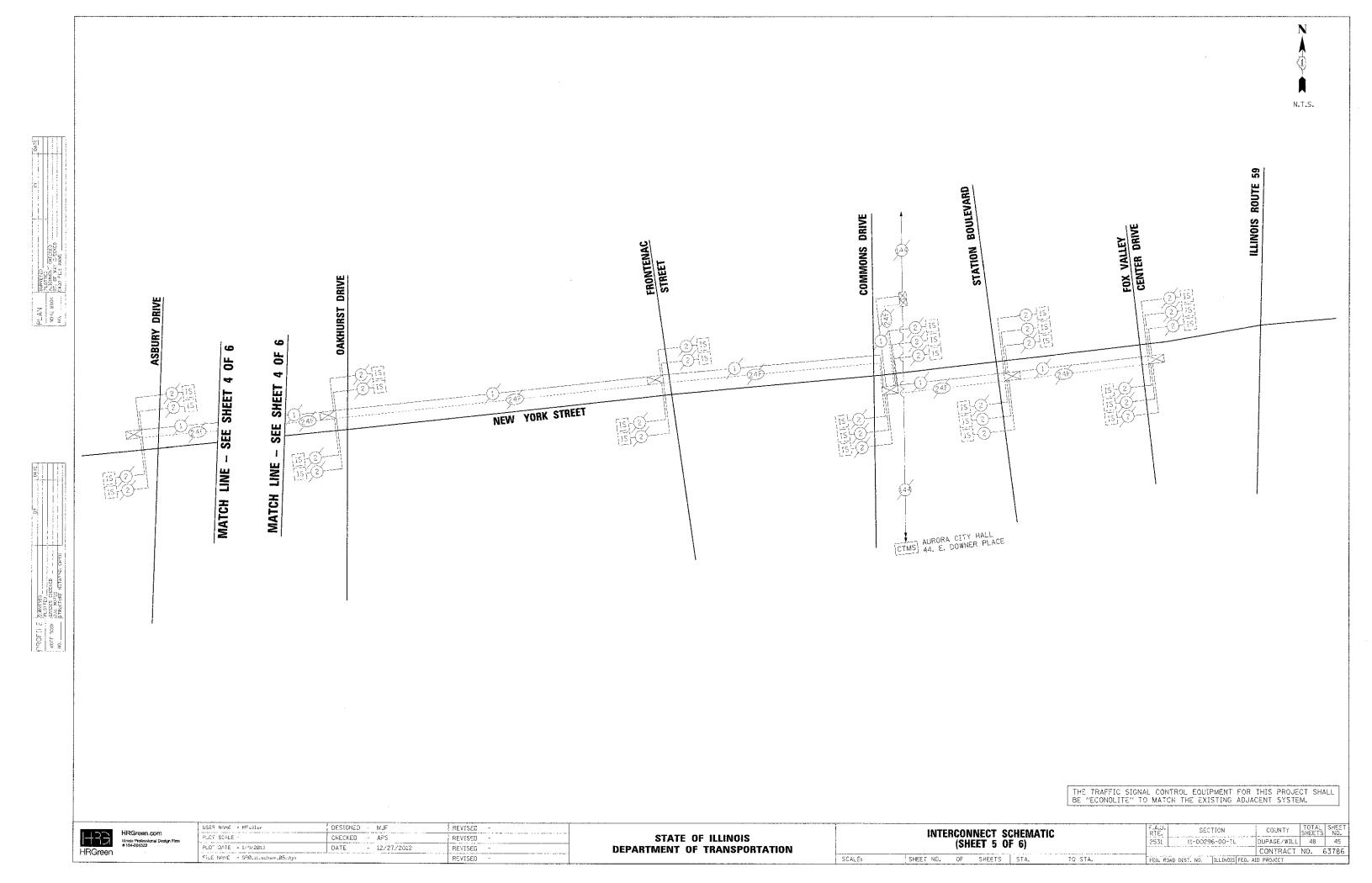
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ĺ	PLOT CASE = 1/9/2003	DATE	-	12/27/2012	REVISED	
	FILE NAME = 692Lti.ochso.24.dgn				REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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IET NO.	CF	SHEETS	STA.	TO STA.		F20. F	20

SECTION COUNTY STEETS NO. 131 11-00296-00-fL DUPAGE/WILL 48 44 CONTRACT NO. 63786





HAFENRICHTER ROAD COPLEY ENTRANCE COMMONS US ROUTE 30 MATCH LINE - SEE SHEET 3 OF SEE SHEET 3 OF OGDEN AVENUE (US ROUTE 34) · (24F)· -<u>(1)</u>---LO-1 (245)-MATCH LINE -FRONTENAC STREET FARNSWORTH AVENUE RIDGE AVENUE MONTGOMERY ROAD TRADE STREET LONG GROVE DRIVE 75TH STREET IL ROUTE 59 US ROUTE

SCHEDULE OF QUANTITIES

SCALE:

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PLOT	DARE	# 379/2013
FILE	NAME	- 690.U.schem 06.dgr

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	CHECKED -	APS	REVISED	-
1/9/2013	DATE	12/27/2012	REVISED	-
690. U .schem 06.dgn			REVISED	-

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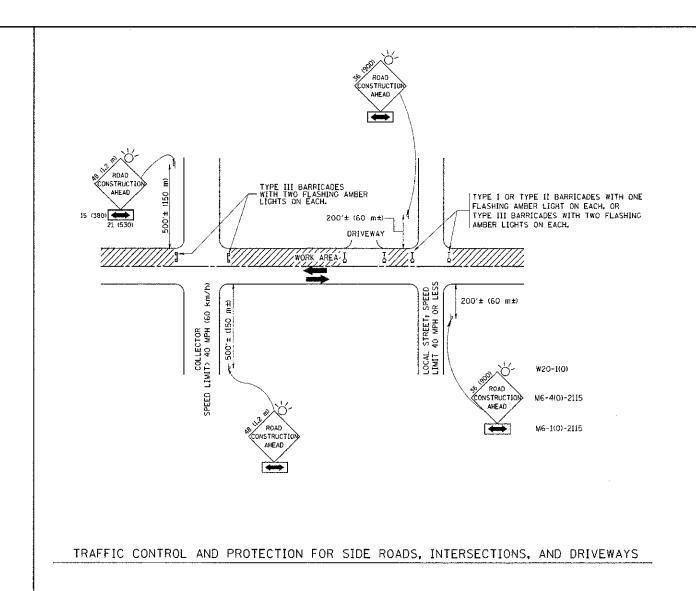
ALL SECTION COUNTY TOTAL SHEETS NO. 531 11-00296-00-TL DUPAGE/WILL 48 46	
531 : 11-00296-00-TL DUPAGE/WILL 48 46	
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CONTRACT NO. 6378	6
ED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

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PROFILE SURVEYER PORT NOTE OF THE PROFILE PROF



NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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.
- 0) ONE ROAD CONSTRUCTION AHEAD SIGN 36 \times 36 (900 \times 900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200° (60 \Re) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT CREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1,2 m \times 1,2 m) WITH A FLASHER MOUNTED ON 11 APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAYS
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 70150), STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LAWE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SMALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95		TRAFFIC CONTROL AND PROTECTION FOR	F.A. SECTION	COUNTY TOTAL SHEET
Wa\diebsid\22x34\tilledgn		DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS		R+E.	SILL 131 INCA
	PLO7 SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	TC10	CONTRACT NO.
	PLOT DATÉ = 1/4/2008	DATE - 06-89	REVISED -T, RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. 4	ATD PROJECT

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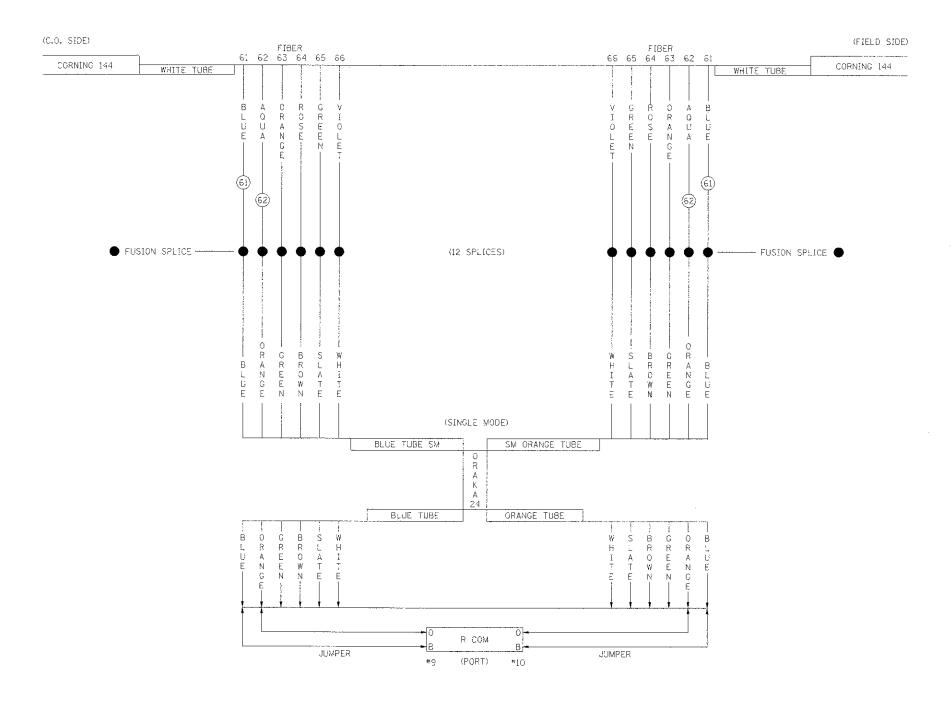
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PLOT SCALE :	CHECKED	 APS	REVISED	
PLOT CATE - :/9/2013	DATE	12/27/2012	REVISED -	
FILE NAME == 690 Filder@litraf-cont.dgr			REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						ON DETAIL D DRIVEWAYS
SCALE:	SHE	ET NO.	OF	SHEETS	STA.	TO STA.

A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
531	11-00296-00-TL	DUPAGE/WILL	48	47
		CONTRACT	NO. 6	378
ED. R	DAD CZST. NO. ILLINOIS FED. A	ID PROJECT		

TRAFFIC SIGNAL - FIBER 'T' SPLICE



1 EACH: TYCO FOSC 450 D6 CLOSURE

INCLUDED IN STO. 450 D6: 1 EACH: STO. 6 TRAY 1 EACH: 6-HOLE PORT 1 EACH: TRACER GROUND LUG

FIBER OPTIC INTERCONNECT AND SPLICE GENERAL NOTES

- 1. AT ALL CABINETS, THE FOLLOWING SHALL BE USED: MULTI MODE - GREEN TUBE SINGLE MODE - BLUE TUBE
- AT ALL CABINETS, A MINIMUM OF SIX (6) MULTI MODE AND SIX (6) SINGLE MODE FIBERS SHALL BE TERMINATED WITH APPROVED MECHANICAL CONNECTORS AT THE DISTRIBUTION ENCLOSURE. FIBERS NOT ATTACHED SHALL BE CAPPED, SEALED, AND LABELED "MM SPARE" OR "SM SPARE".
- 3. THE DISTRIBUTION ENCLOSURE AND ALL CONNECTORS WILL BE INCLUDED IN THE COST OF THE FIBER OPTIC CABLE.
- 4. ALL FIBERS SHALL BE TERMINATED IN THE CABINET PRICR TO THE FUSION SPLICE BEING PERFORMED, SO THAT OTDR TESTS CAN BE RUN TO APPROVE THE SPLICE.
- 5. OTOR TESTING SHALL BE INCLUDED IN THE COST OF THE FIBER OPTIC SPLICE.
- 6. AT THE CABINET, TERMINATE ALL TWELVE (12) SINGLE MODE WITH "SC" MECHANICAL CONNECTORS.
- 7. AT THE CABINET, TERMINATE ALL MULTI MODE WITH "ST" MECHANICAL CONNECTORS.