- SUMMARY OF QUANTITIES
- STANDARD TRAFFIC SIGNAL DESIGN STANDARDS
- EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED LAKE STREET
- TRAFFIC SIGNAL MODIFICATION PLAN LAKE STREET
- CABLE PLAN AND PHASE DESIGNATION DIAGRAM LAKE STREET
- TRAFFIC SIGNAL MODIFICATION PLAN RIVER STREET
- CABLE PLAN AND PHASE DESIGNATION DIAGRAM RIVER STREET
- TRAFFIC SIGNAL MODIFICATION PLAN BROADWAY AVENUE
- CABLE PLAN AND PHASE DESIGNATION DIAGRAM BROADWAY AVENUE EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - LINCOLN AVENUE
- TRAFFIC SIGNAL MODIFICATION PLAN LINCOLN AVENUE
- CABLE PLAN AND PHASE DESIGNATION DIAGRAM LINCOLN AVENUE
- EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED ROOT STREET
- TRAFFIC SIGNAL MODIFICATION PLAN ROOT STREET
- CABLE PLAN AND PHASE DESIGNATION DIAGRAM ROOT STREET
- MAST ARM MOUNTED STREET NAME SIGNS ROOT STREET EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - UNION STREET
- TRAFFIC SIGNAL MODIFICATION PLAN UNION STREET
- CABLE PLAN AND PHASE DESIGNATION DIAGRAM UNION STREET
- MAST ARM MOUNTED STREET NAME SIGNS UNION STREET
- TEMPORARY TRAFFIC SIGNAL INSTALLATION AND EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - OHIO STREET
- TEMPORARY TRAFFIC SIGNAL CABLE PLAN AND PHASE DESIGNATION DIAGRAM OHIO STREET
- 30-31 TRAFFIC SIGNAL MODIFICATION PLAN OHIO STREET
- CABLE PLAN AND PHASE DESIGNATION DIAGRAM OHIO STREET
- MAST ARM MOUNTED STREET NAME SIGNS OHIO STREET 34-35 TRAFFIC SIGNAL MODIFICATION PLAN - FARNSWORTH AVENUE
- 36 CABLE PLAN AND PHASE DESIGNATION DIAGRAM FARNSWORTH AVENUE
- 41-43 INTERCONNECT SCHEMATIC
- 44 TRAFFIC CONTROL AND PROTECTION DETAILS

HIGHWAY STANDARDS

- CURB RAMPS FOR SIDEWALKS
- CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- PC CONCRETE ISLANDS AND MEDIANS
- URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

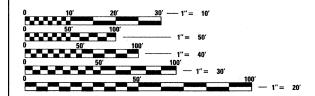
BEGIN PROJECT

(LAKE STREET)

- URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- URBAN LANE CLOSURE, MULTILANE INTERSECTION
- LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- TRAFFIC CONTROL DEVICES SIGN PANEL MOUNTING DETAILS
- SIGN PANEL ERECTION DETAILS
- MAST ARM MOUNTED STREET NAME SIGNS
- 814006-02 DOUBLE HANDHOLES STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 857001-01
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 873001-02 TRAFFIC SIGNAL GROUNDING & BONDING
- 877001-04 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
- STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' 877011-04 CONCRETE FOUNDATION DETAILS 878001-07
- 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- DETECTOR LOOP INSTALLATIONS 886001-01
- STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 000001-05

J.U.L.I.E.

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: 63152

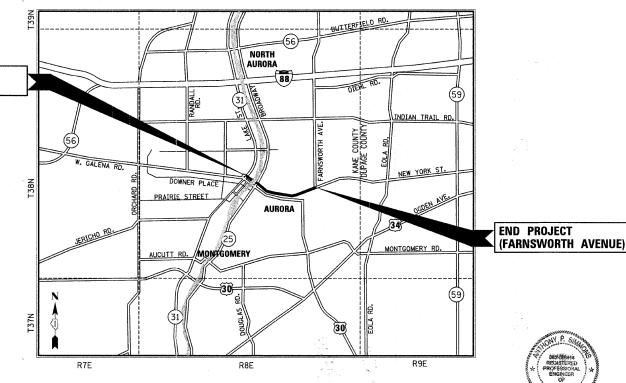
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED PLANS FOR TRAFFIC SIGNAL INTERCONNECT

CONGESTION MITIGATION AIR QUALITY ROUTE: NEW YORK STREET FROM LAKE STREET TO FARNSWORTH AVENUE SECTION 07-00267-00-TL PROJECT NO. CMM-8003 (925) **KANE COUNTY** JOB NO.: C-91-144-08

FAU ROUTE 2745

THIS IMPROVEMENT IS LOCATED IN THE CITY OF AURORA

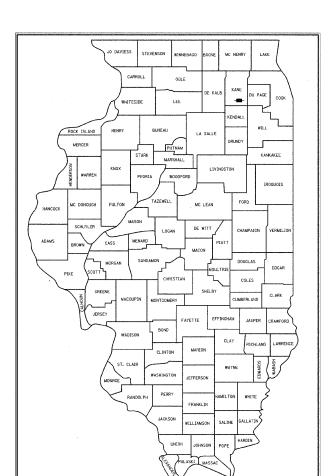


LOCATION MAP SCALE: N.T.S

POSTED SPEED = 30 M.P.H. PROJECT GROSS LENGTH = 10,700,00 FEET = 2.03 MILES PROJECT NET LENGTH = 10.700.00 FEET = 2.03 MILES

ANTHONY J. SIMMONS, P.E.

NO. 062-058414 EXPIRES: 11/30/09 SMITH ENGINEERING CONSULTANTS, INC.



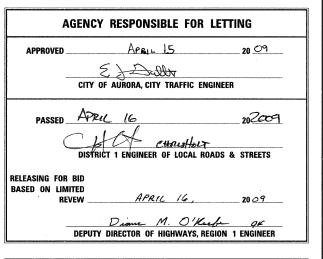
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CONTRACT NO. 63152



LOCATION OF SECTION INDICATED THUS --



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81400300 DOUBLE HANDHOLE

85900100 TRANSCEIVER

81702110 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10

82102250 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT

82500510 LIGHTING CONTROLLER TYPE CB-RCS 60 AMP - 240 VOLT

85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

85700205 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)

81900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK

87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C

87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C

87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C

87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C

87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR

87301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C

87502440 TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.

87502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.

87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.

87502520 TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.

87700190 STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.

87702870 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT.

87702900 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT.

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CODE	PAY ITEM DESCRIPTION	UNIT	TOTAL	LAKE	RIVER	BROADWAY	LINCOLN	Y031-F ROOT	UNION	OHIO	FARNSWORTH	T
NUMBER			QUANTITY	STREET	STREET	AVENUE	AVENUE	STREET	STREET	STREET	AVENUE	INTERCONNECT
42400800	DETECTABLE WARNINGS	SQ FT	197	38						72	87	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	12	12								
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	32	32								
60255500	MANHOLES TO BE ADJUSTED	EACH	1 1								1	
60600605	CONCRETE CURB, TYPE B	FOOT	9	9								
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	28	28								
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	4									
67100100	MOBILIZATION	L SUM	1		'							
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1									
72000100	SIGN PANEL - TYPE 1	SQFT	154.19	31.19			20	34	34	35		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1235				-	i .		609	626	-
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	653	653	W			3				
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	455	82						196	177	
78300100	PAVEMENT MARKING REMOVAL	SQFT	1539	365				***************************************		651	523	
80400100	ELECTRICAL SERVICE INSTALLATION	EACH	3	1			1			1		
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5069	525			20	262	261	197	414	3390
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	326	71			61	41	50	92	11	
81001000	CONDUIT IN TRENCH, 4° DIA., GALVANIZED STEEL	FOOT	149	24			38	62	15	10		
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	2997	259			105	60	35		75	2463
81018600	CONDUIT PUSHED, 2 1/2" DIA.,GALVANIZED STEEL	FOOT	64				33	31				
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1108	219			186	148	181	374		
81400100	HANDHOLE	EACH	29	3			3	2	2	5	2	12
		1										

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	87702910 STEEL	L COMBINATION MAST ARM ASSEMBLY	AND POLE, 36 FT.	EACH	1				1		~		
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	PLOT DATE = 4/15/2009	DATE -	REVISED -			SCALE:	SHEET NO. O	F SHEETS ST	A. TO STA.	FFD. ROAL	DIST. NO. ILLINOIS FED.		110. 031

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FOOT 6148

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1956.5

SUMMA	RY OF	QUANT	ITIES

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	LAKE STREET	RIVER STREET	BROADWAY AVENUE	LINCOLN AVENUE	Y031-F ROOT STREET	UNION	OHIO STREET	FARNSWORTH AVENUE	INTERCONNECT
87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2	OTREET	OINELI	AVENUE	AVENUE	SINCE	SINEET	2	AVENUE	
87704040	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 22 FT. (SPECIAL)	EACH	2	1			1					
87704060	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT. (SPECIAL)	EACH	1				1					
87704070	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT. (SPECIAL)	EACH	2	1			1					
87704080	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 30 FT. (SPECIAL)	EACH	1	1								
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	76	12			12	16	12	16	8	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	20	4			4	4	4	4		
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	141	33.5			30	10	13.5	54		
87900200	DRILL EXISTING HANDHOLE	EACH	82	17			9	5	14	13	21	3
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	17	5			4	2	2	4		
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5	3			2					
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5				1			4		
	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9				1	4	4			
	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	5				1			4		
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6							4	2	
	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	19	4			4	4	4	1	2	
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	22	5			5	2	2	8		
	INDUCTIVE LOOP DETECTOR	EACH	38	5			5	3	5	10	10	
	DETECTOR LOOP, TYPE I	FOOT	3652.6	187.6			387.3	244.9	402.7	1532.9	897.2	
	LIGHT DETECTOR	EACH	16	3			3	3	3	4	507.2	
	LIGHT DETECTOR AMPLIFIER	EACH	5	1			1	1	1	1		
	PEDESTRIAN PUSH-BUTTON	EACH	29	4			4	4	4	7	6	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1				7		7	1		
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	24070.5	2593.5			4167.5	2437	3695.5	9347	1830	
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1			1	1	1	1	1	
89502380	REMOVE EXISTING HANDHOLE	EACH	13	1			3	2	1	6		
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	32	7			7		6	7		
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	8243.5					5	0			8243.5
`	OPTIMIZE TRAFFIC SIGNAL SYSTEM											
	PAINT NEW MAST ARM POLE, UNDER 40 FEET	EACH	1									1
		EACH	1						1			
	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FEET WIRELESS INTERCONNECT (COMPLETE)	EACH	5					1		4	/ -	
		EACH	1									1
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1							1		
	WIRELESS ETHERNET RADIO	EACH	2		1			1				
	ISLAND PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	1176							601	575	
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1							1		
	PAINT TRAFFIC SIGNAL POST	EACH	17	3			3	4	3	4		
	UNINTERRUPTABLE POWER SUPPLY	EACH	6	1			1	1	1	1	1	
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	8243.5									8243.5
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	3684	641			562.5	415	422	814	829.5	
	SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	469	401							68	
XX003584	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	629.5			78		236		111.5	204	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAY ITEM DESCRIPTION UNIT TOTAL LAKE RIVER

CODE			TOTAL					Y031-F				
NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY	LAKE STREET	RIVER STREET	BROADWAY AVENUE	LINCOLN AVENUE	ROOT STREET	UNION STREET	OHIO STREET	FARNSWORTH AVENUE	INTERCONNECT
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3C TWISTED SHIELDED	FOOT	2593.5	580		78	287.5	553	271.5	619.5	204	
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	6	3			3					
XX006923	GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	25	4			2	2	5	4	8	
XX007251	INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	4			1		1		1	1	
XX007487	LUMINAIRE SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT (SPECIAL)	EACH	6	3			3					
XX 00-1987	SIGNAL HEAD, LED, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4								4	
XX00 7989	SIGNAL HEAD, LED, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	8								8	
XX°07990	SIGNAL HEAD, LED, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4								4	
x037.6269	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4							2	2	
XX00795Z	TERMINAL SERVER	EACH	1									1
XX0079972	ETHERNET SWITCH	EACH	1									1
xx007993	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM	1									1
XX007994	FIBER OPTIC SPLICE	EACH	1									1
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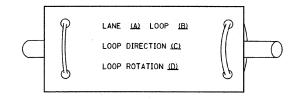
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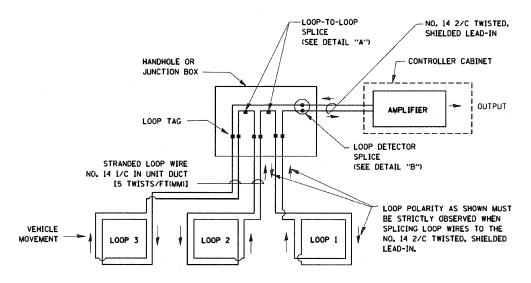
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER.
 ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT
 FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE
 DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT I 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

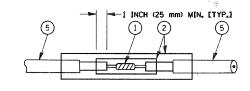


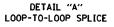
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP "1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

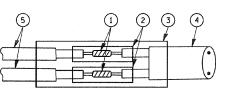


DETECTOR LOOP WIRING SCHEMATIC

- . 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.
- (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.

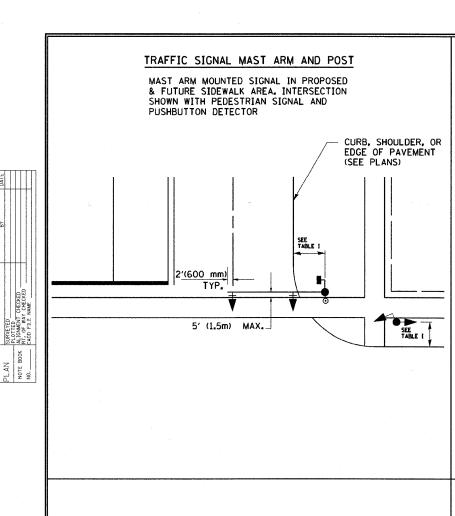
REVISIONS		ILLINOIS DEPARTMENT	OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTMENT	OF THANSFORTATION
CADD	5/30/00		
ADD NOTE NO. 8	11/12/01	DISTRIC	T ONE
BUREAU OF TRAFFIC	1-01-02	STANDARD TRA	AFEIC CICAIAI
		STANDARD IRA	AFFIC SIGNAL
		DESIGN (OFTAILS
		52510	
		COLLE VOUE	DRAWN BY: RWP
	1	SCALE: NONE	DESIGNED BY: DAD
		DATE: 2/15/2006	CHECKED BY: DAZ SHEET 1 OF 4

SECTION

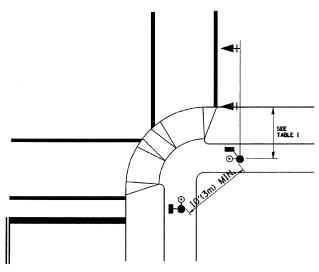
COUNTY
TO STA.

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

	, A STATE OF THE S				7				REVISION DATE:	:01/01/02
FILE NAME =	USER NAME = LUSER_ ` .	DESIGNED -	REVISED ~		DISTRICT ONE		F.A.	SECTION	COUNTY	TOTAL SHEET
y:\jobs\smith\2007\070690 auro - traffic s	ignals\070690.04 auro new york st. traffic s	gnDRAWNty of BuAgHa\cad\trans\fin_dwg\69	Ø. REMISSED Ø1.dgn	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNALS		07-1	00267-00-TL	KANE	48 5
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	DESIGN DETAILS				CONTRACT	NO. 63152
	PLOT DATE = 4/15/2009	DATE -	REVISED		SCALE: SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. N	NO. ILLINOIS FED. A		50152



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

RTE. SECTION COUNTY SHEET NO. STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT

NOTES:

 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

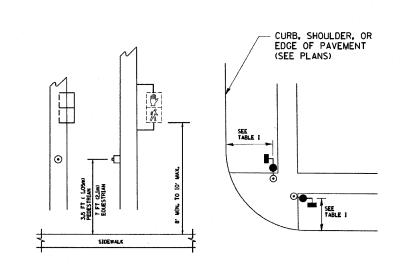


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1 _* 8m)	SHOULDER WIDTH + 2FT(O.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(O.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(O.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS
NAME
DATE
BUREAU OF TRAFFIC 1/01/02

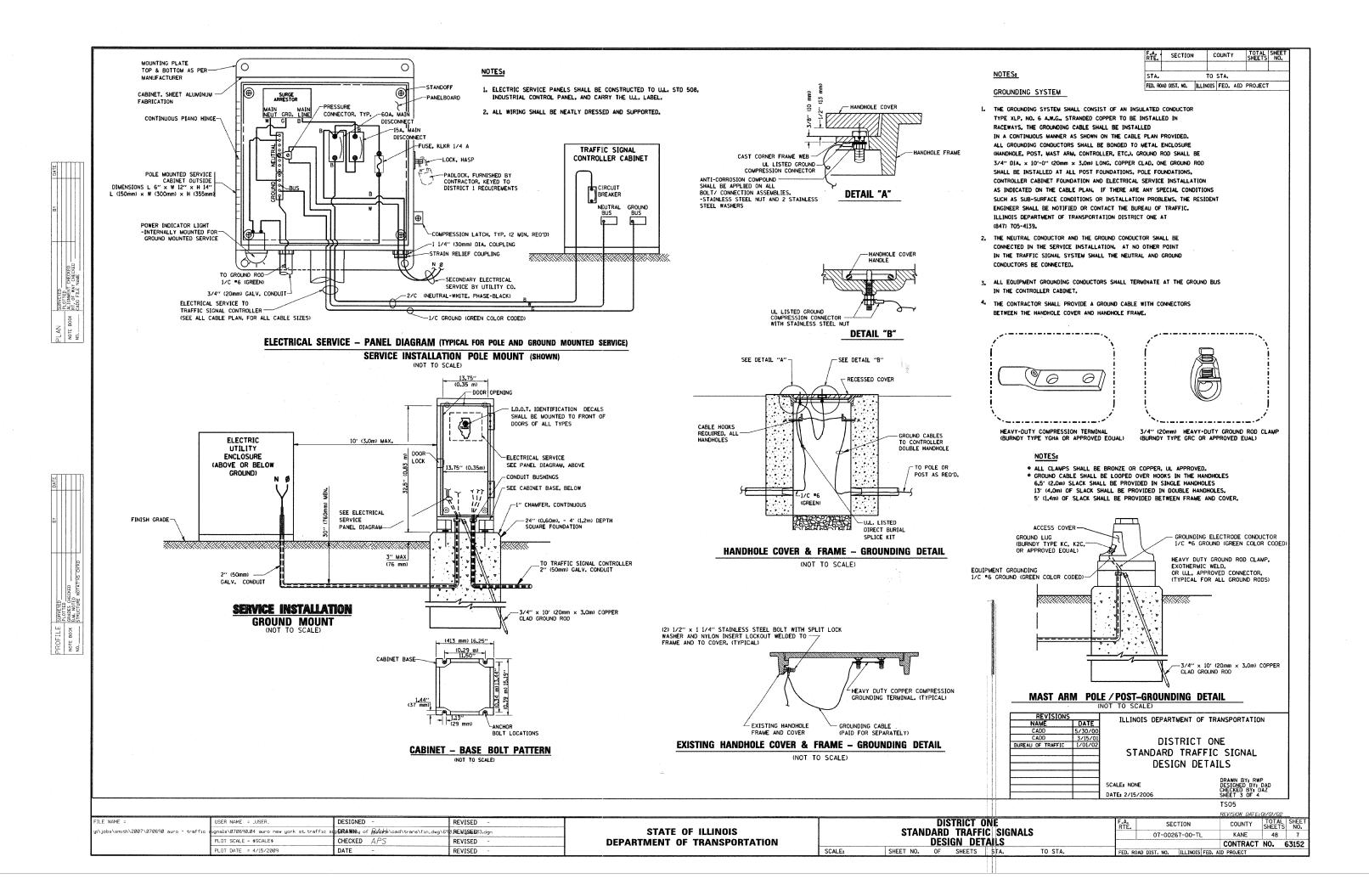
DISTRICT 1

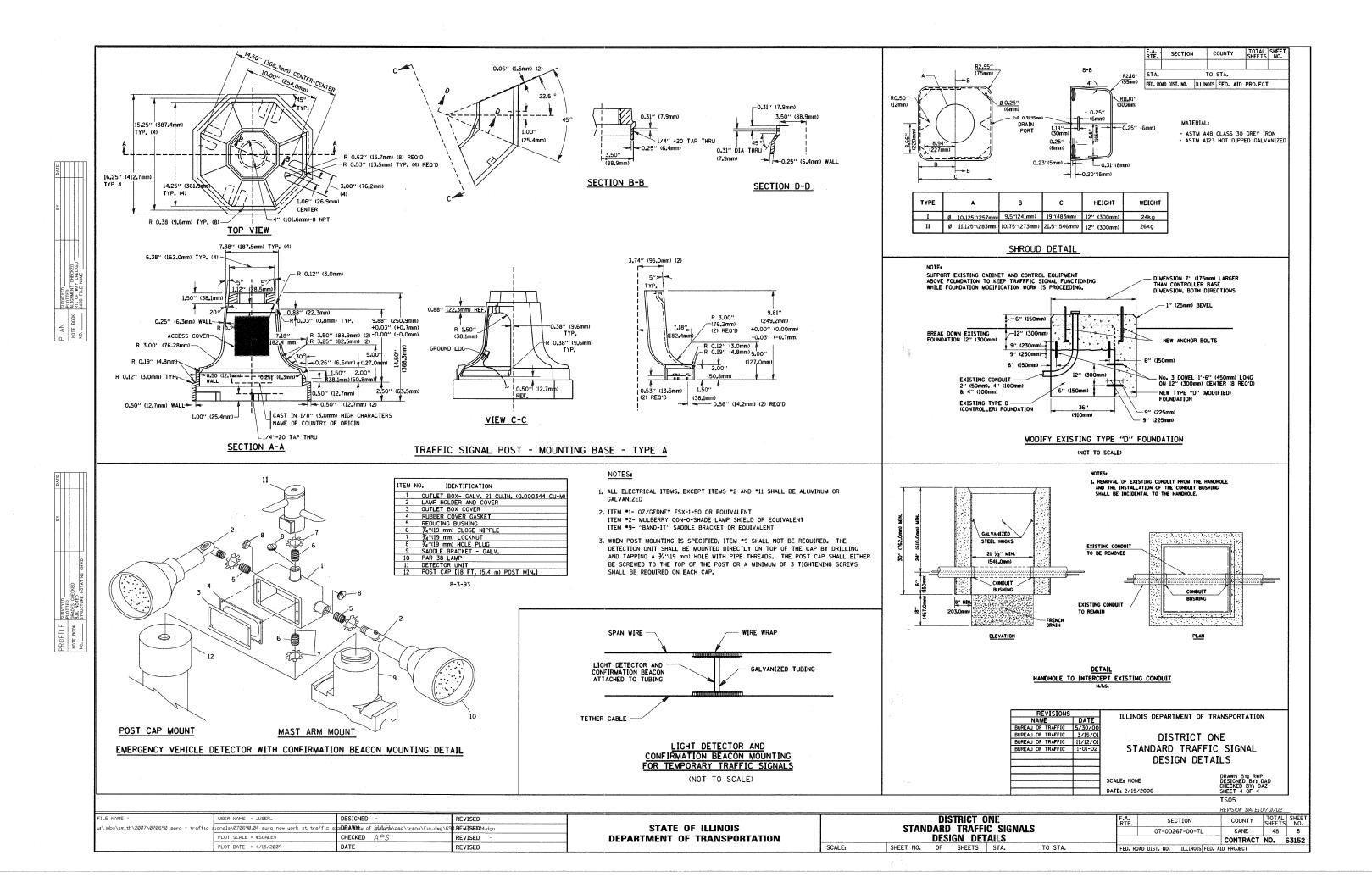
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

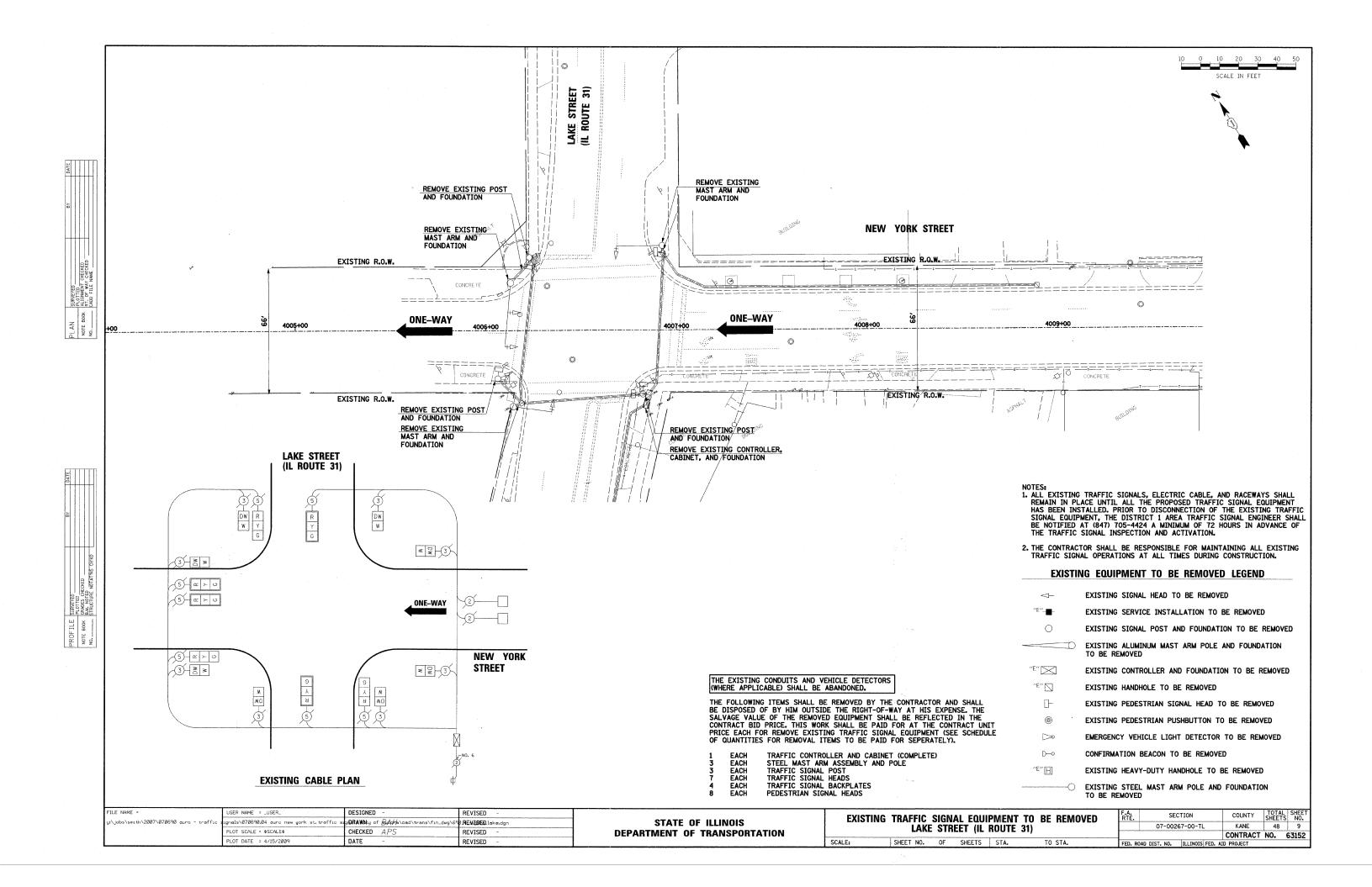
ORAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY:

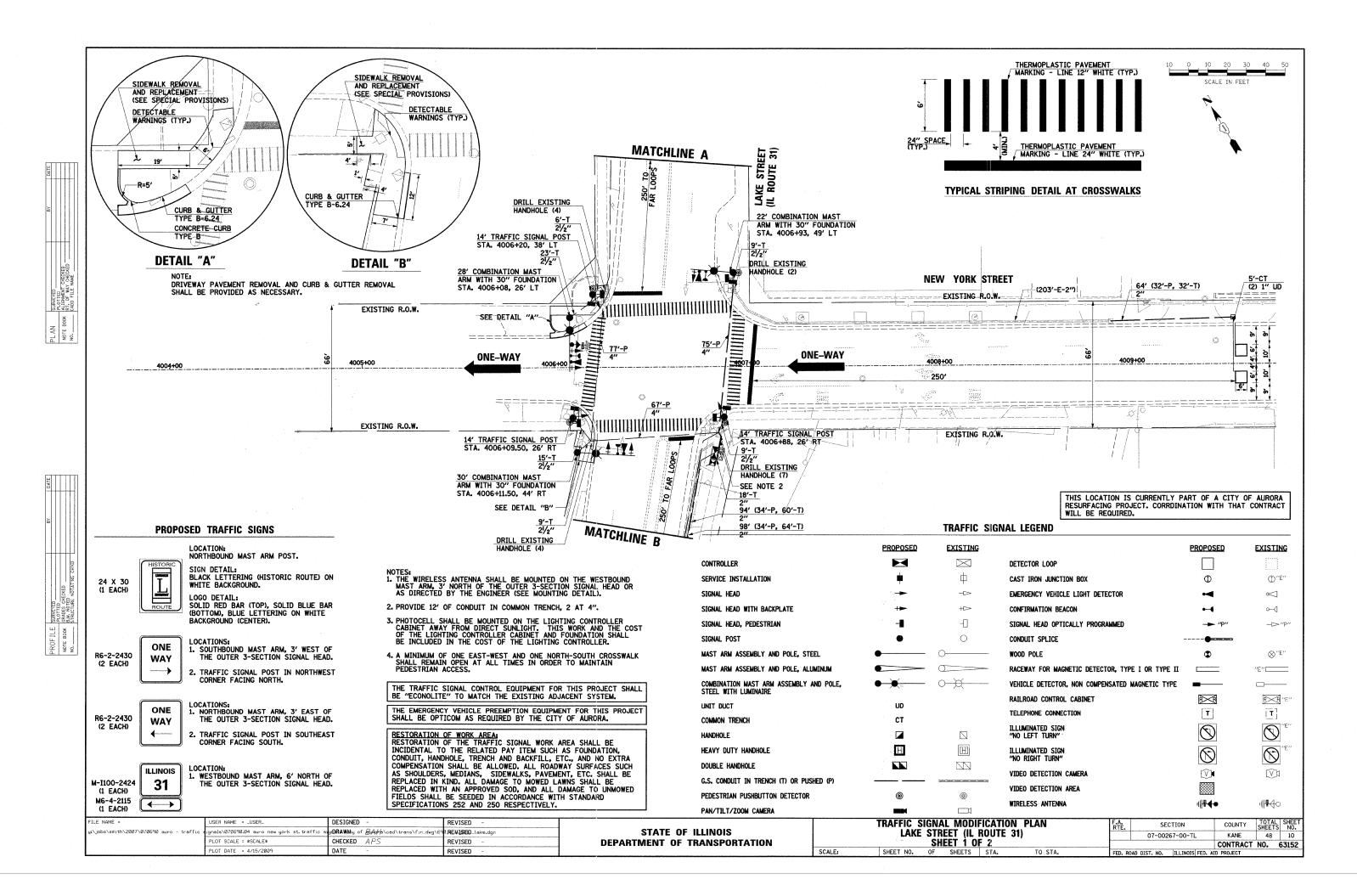
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REVISION DATE: 01/01/02

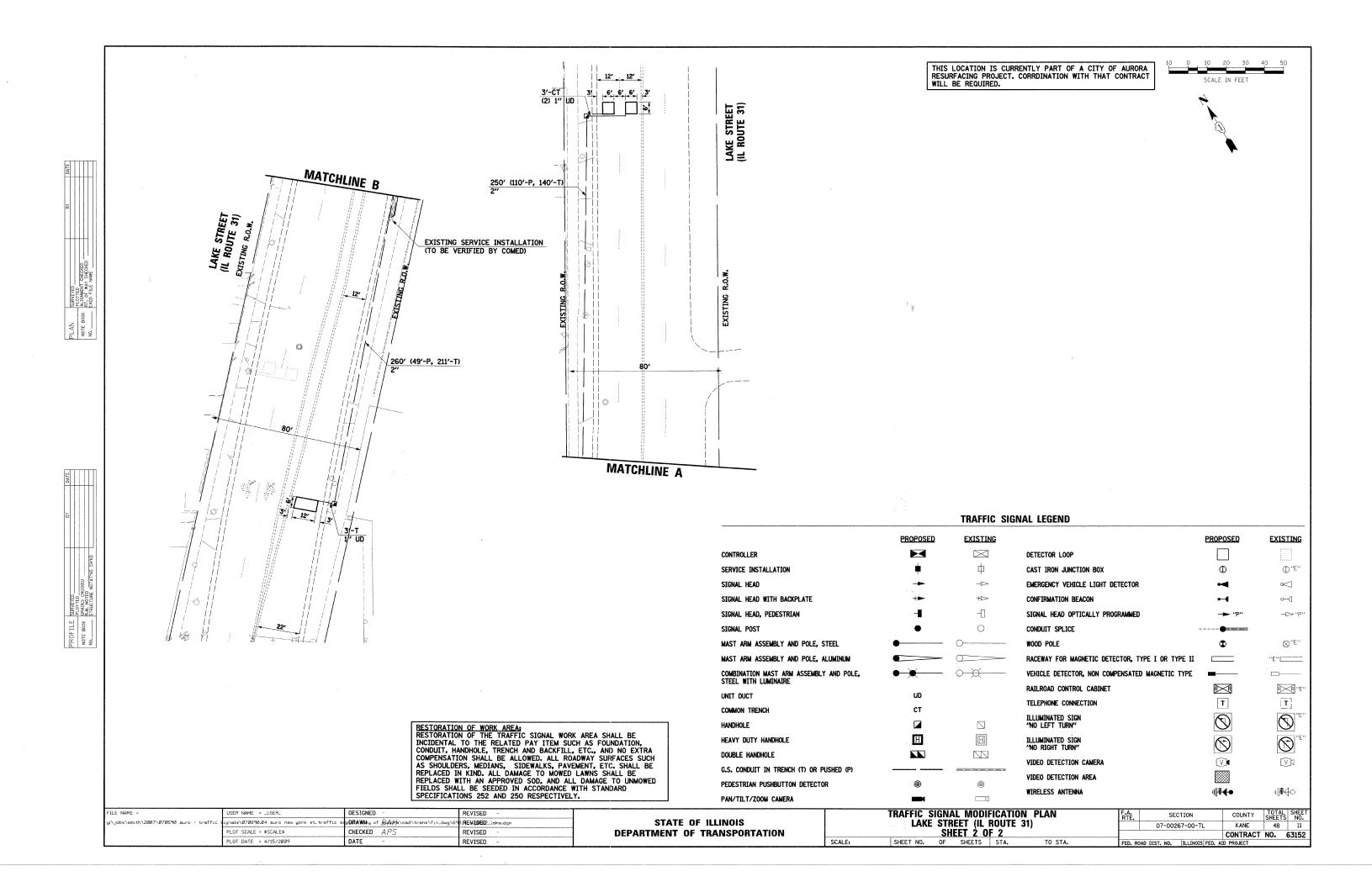
TOTAL SHEE NO. DESIGNED DISTRICT ONE REVISED SECTION COUNTY STANDARD TRAFFIC SIGNALS pDRAWNty of ByAgHa\cad\trans\fin_dwg STATE OF ILLINOIS y:\jobs\smith\2007\070690 auro = traffi nals\070690.04 auro new york st. traffic REMISED02.dgr KANE 07-00267-00-TI 48 6 CONTRACT NO. 63152 PLOT SCALE = \$SCALE\$ CHECKED APS REVISED **DEPARTMENT OF TRANSPORTATION DESIGN DETAILS** PLOT DATE = 4/15/2009 DATE REVISED SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

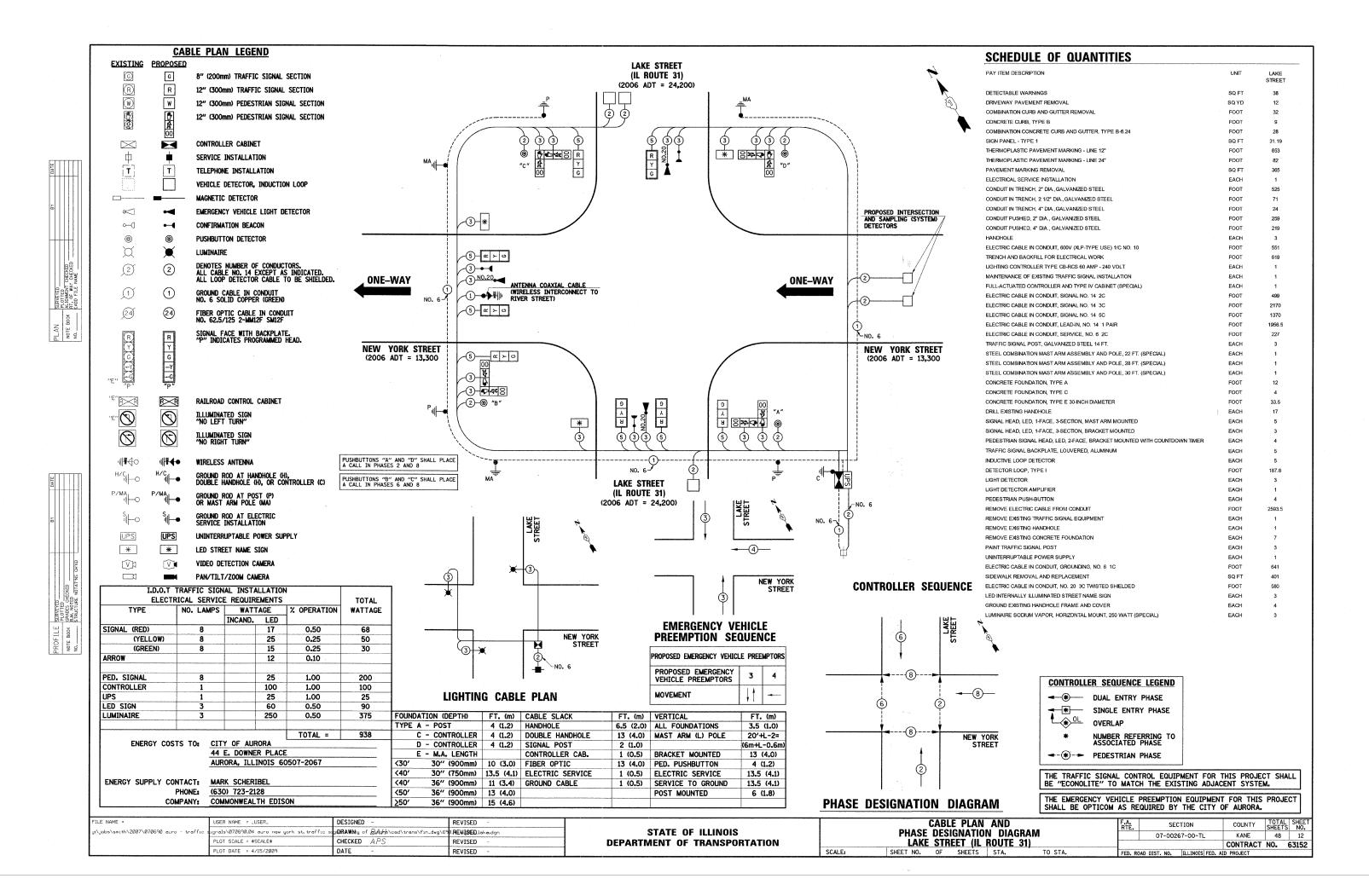


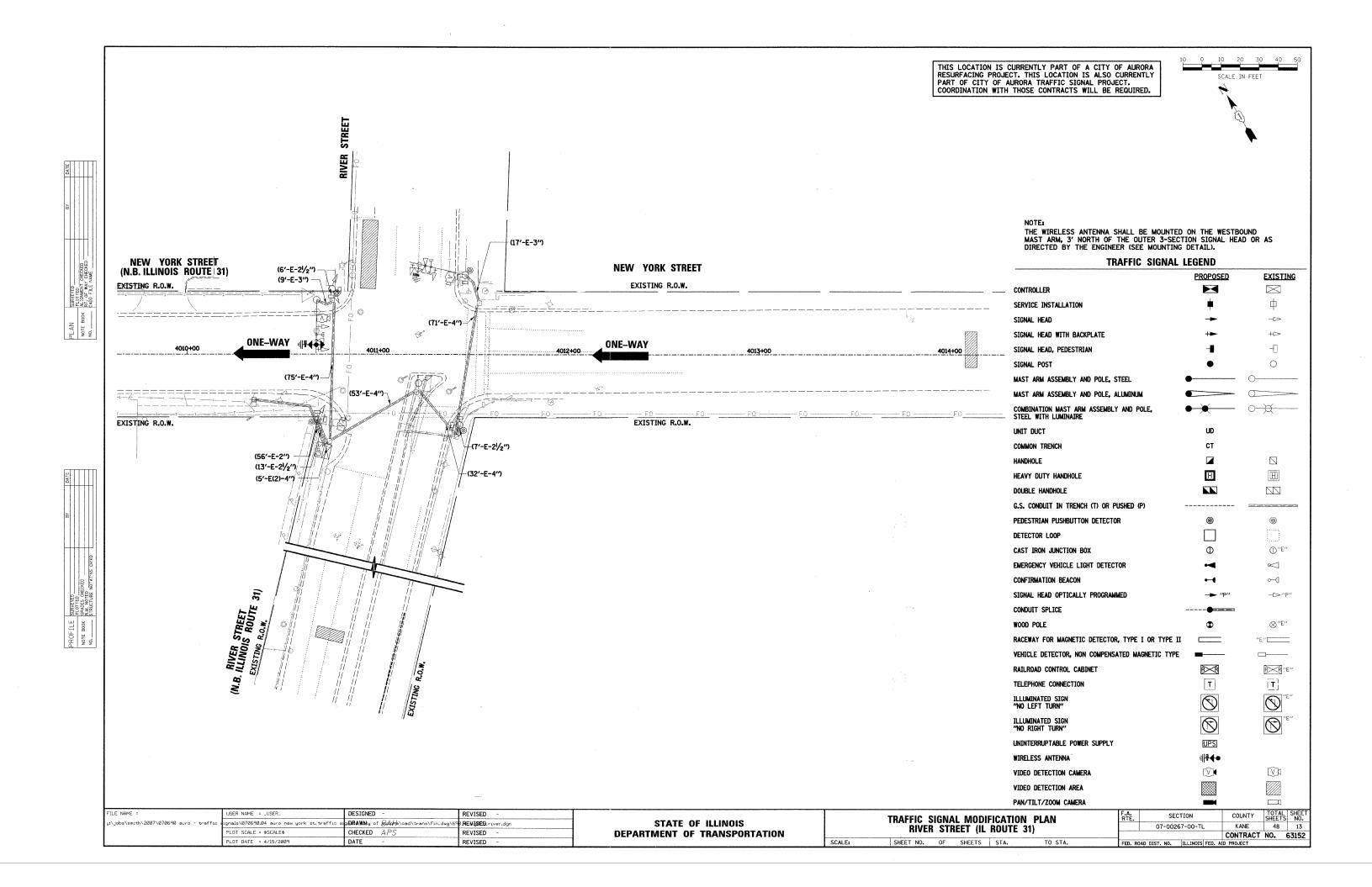


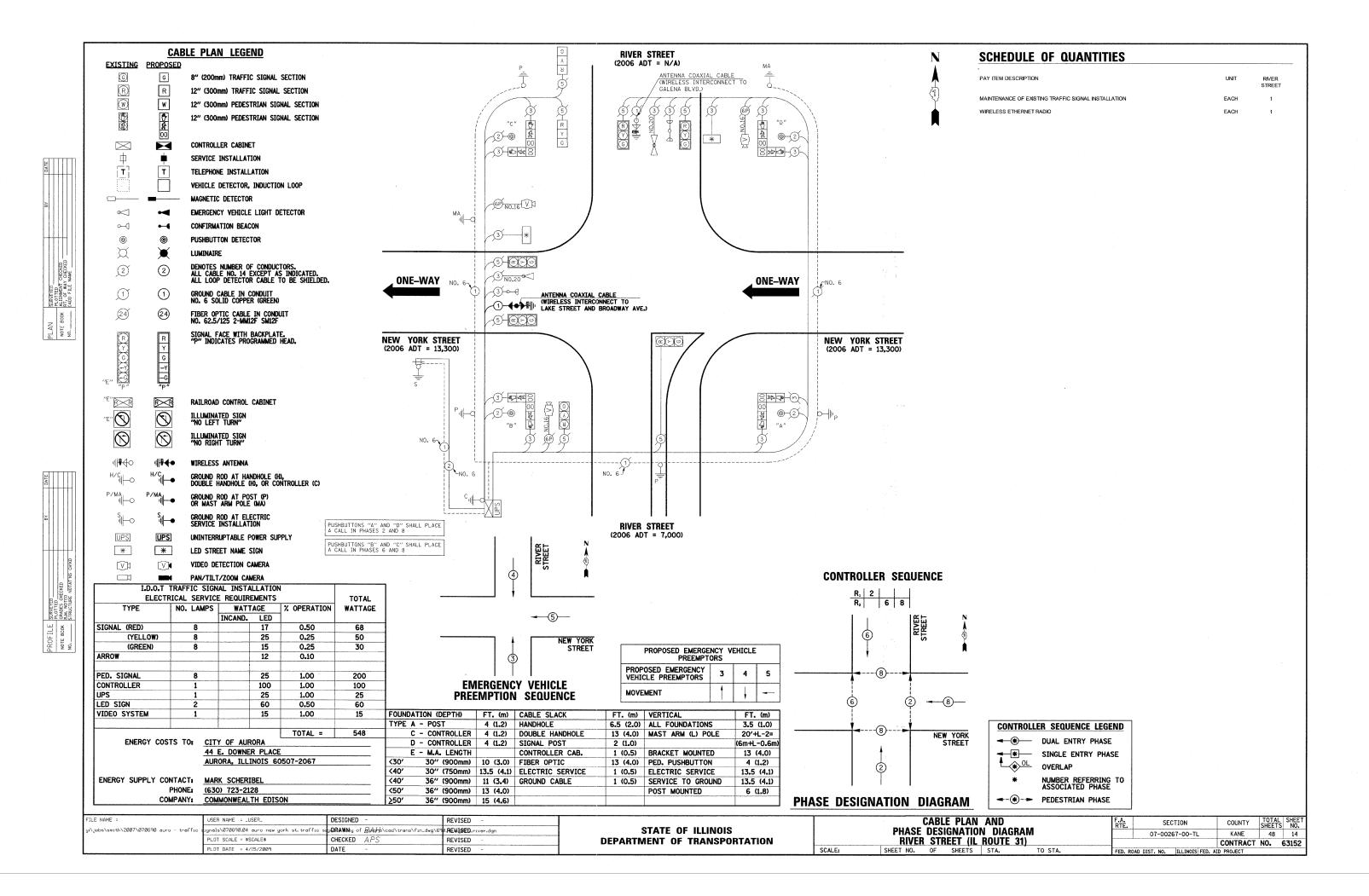


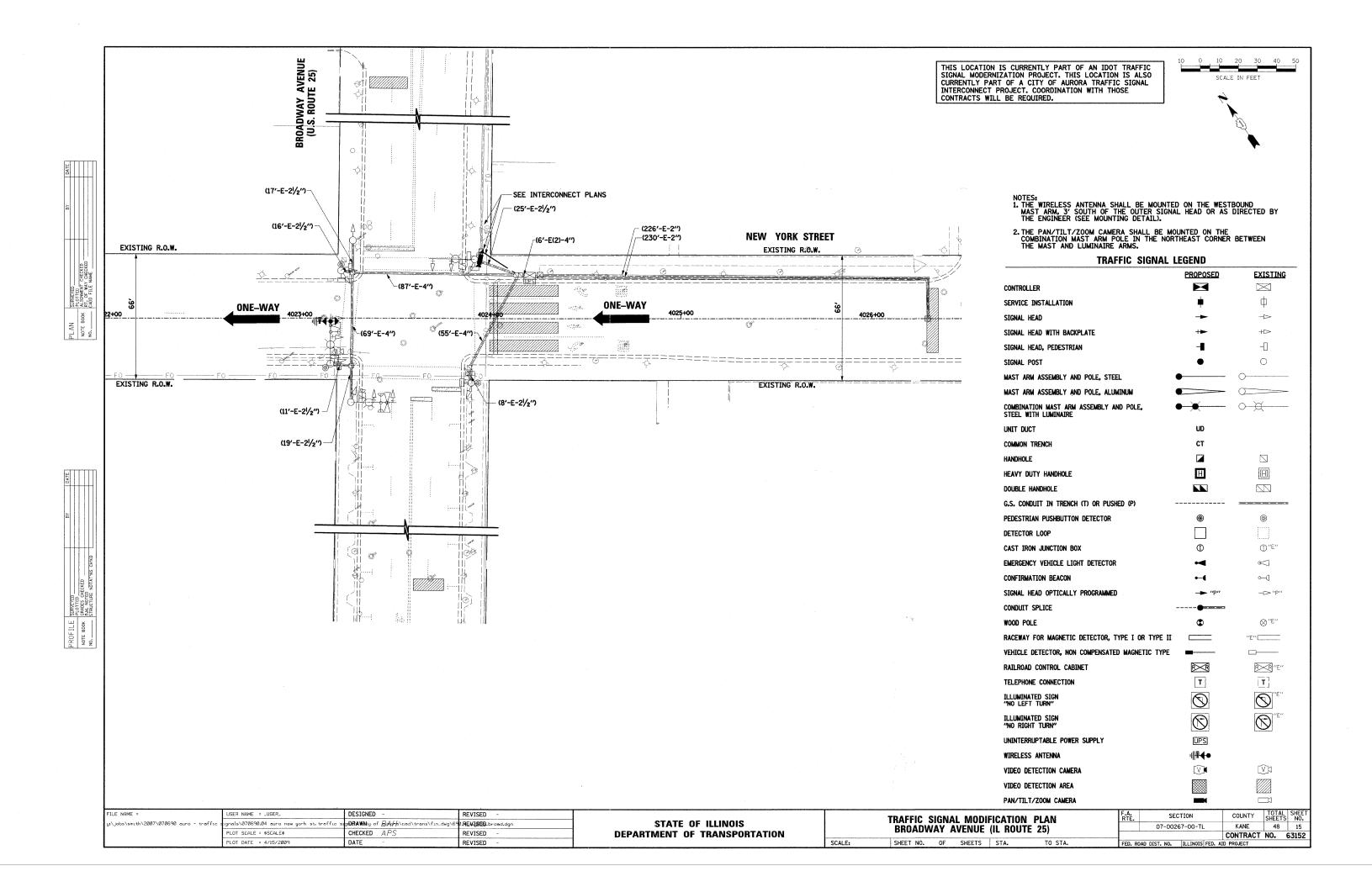


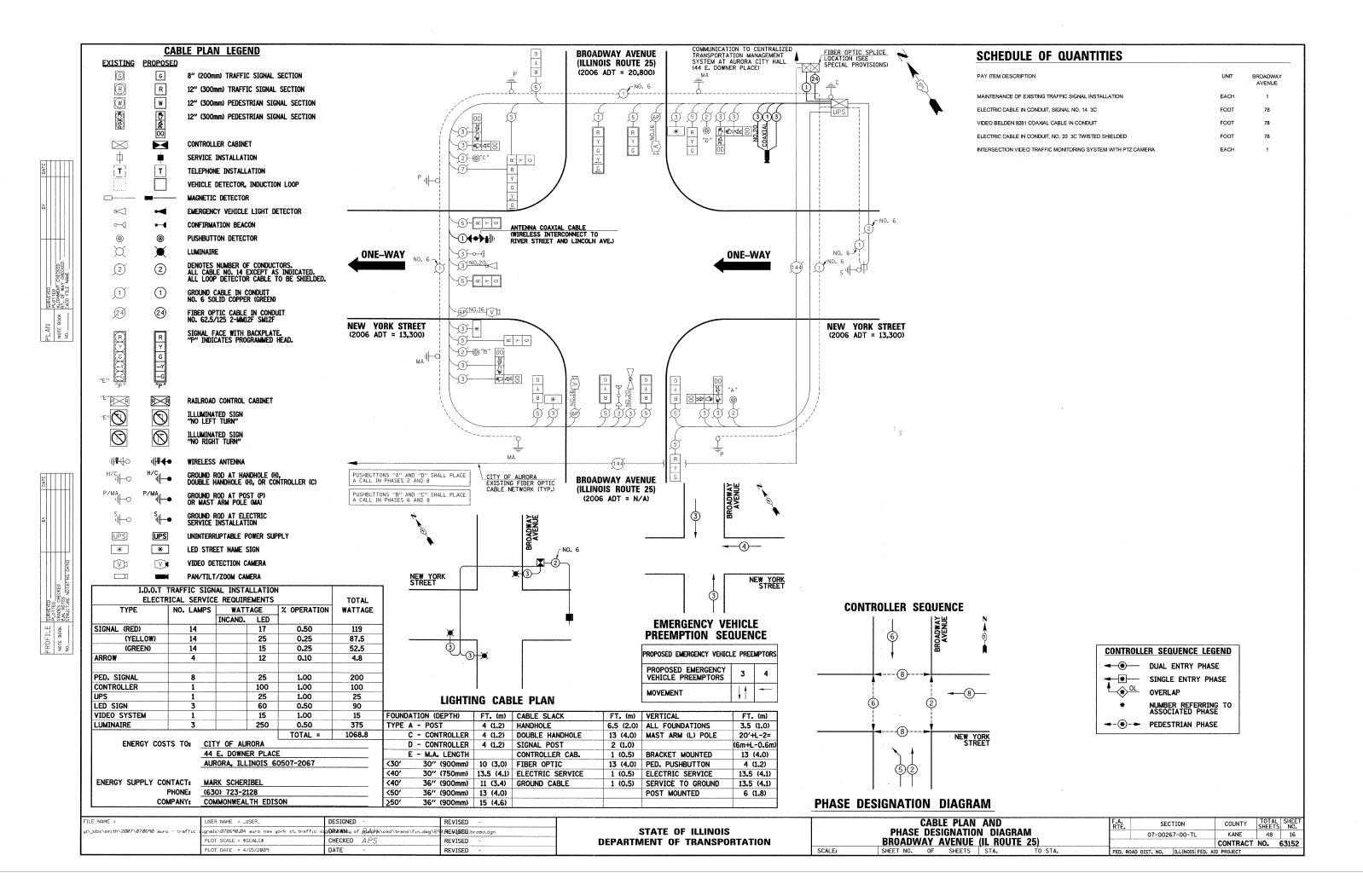


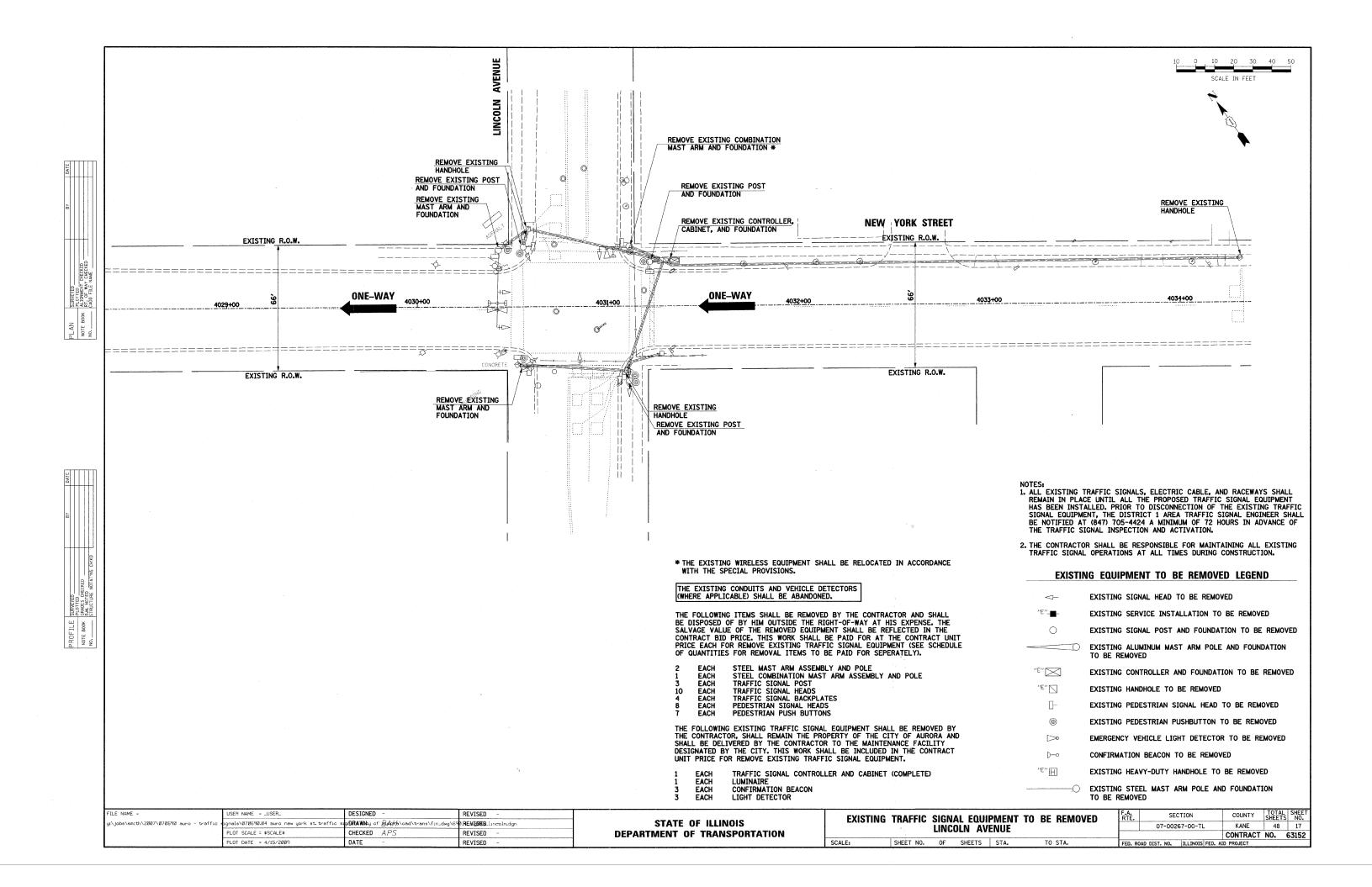


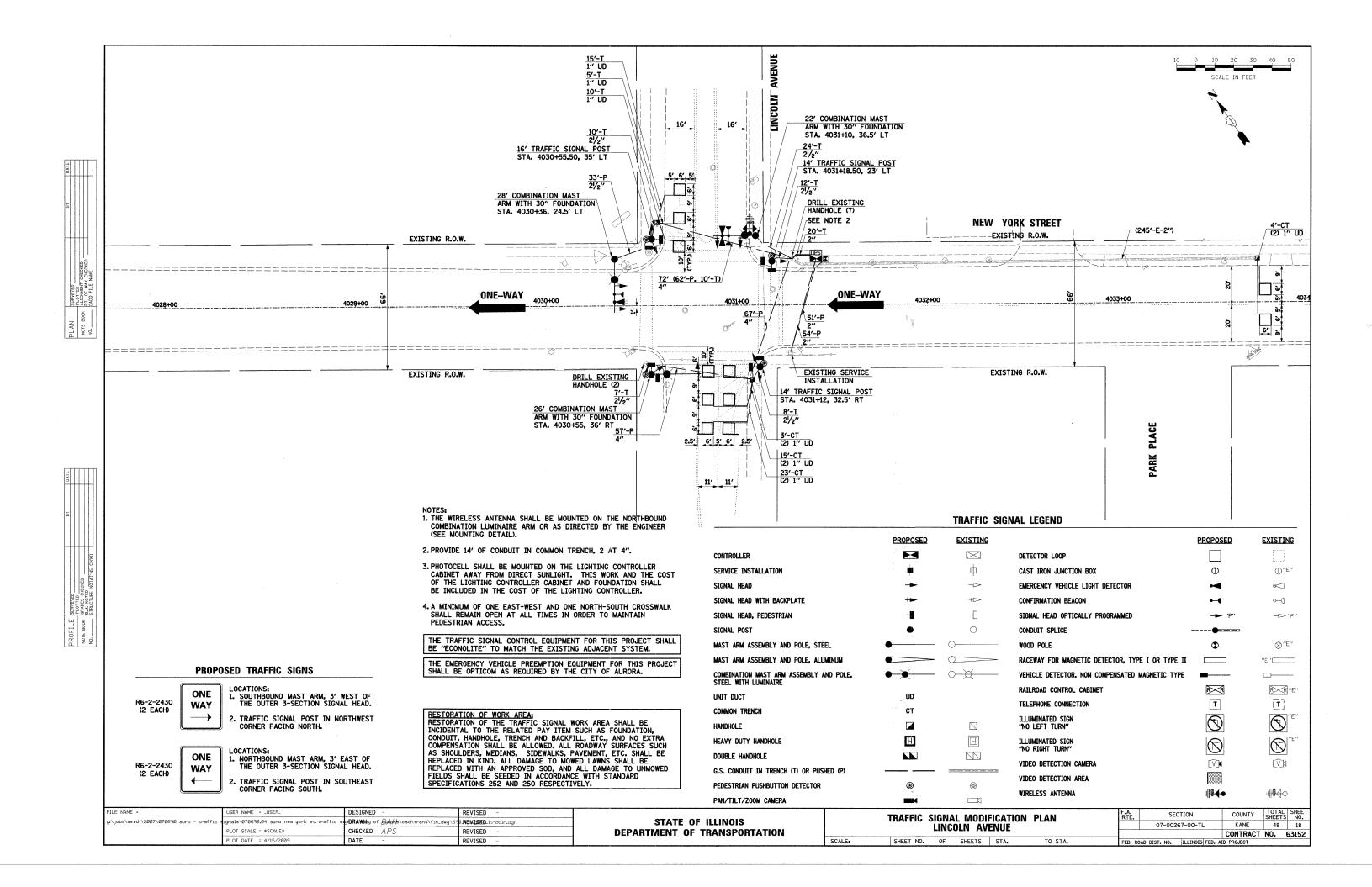


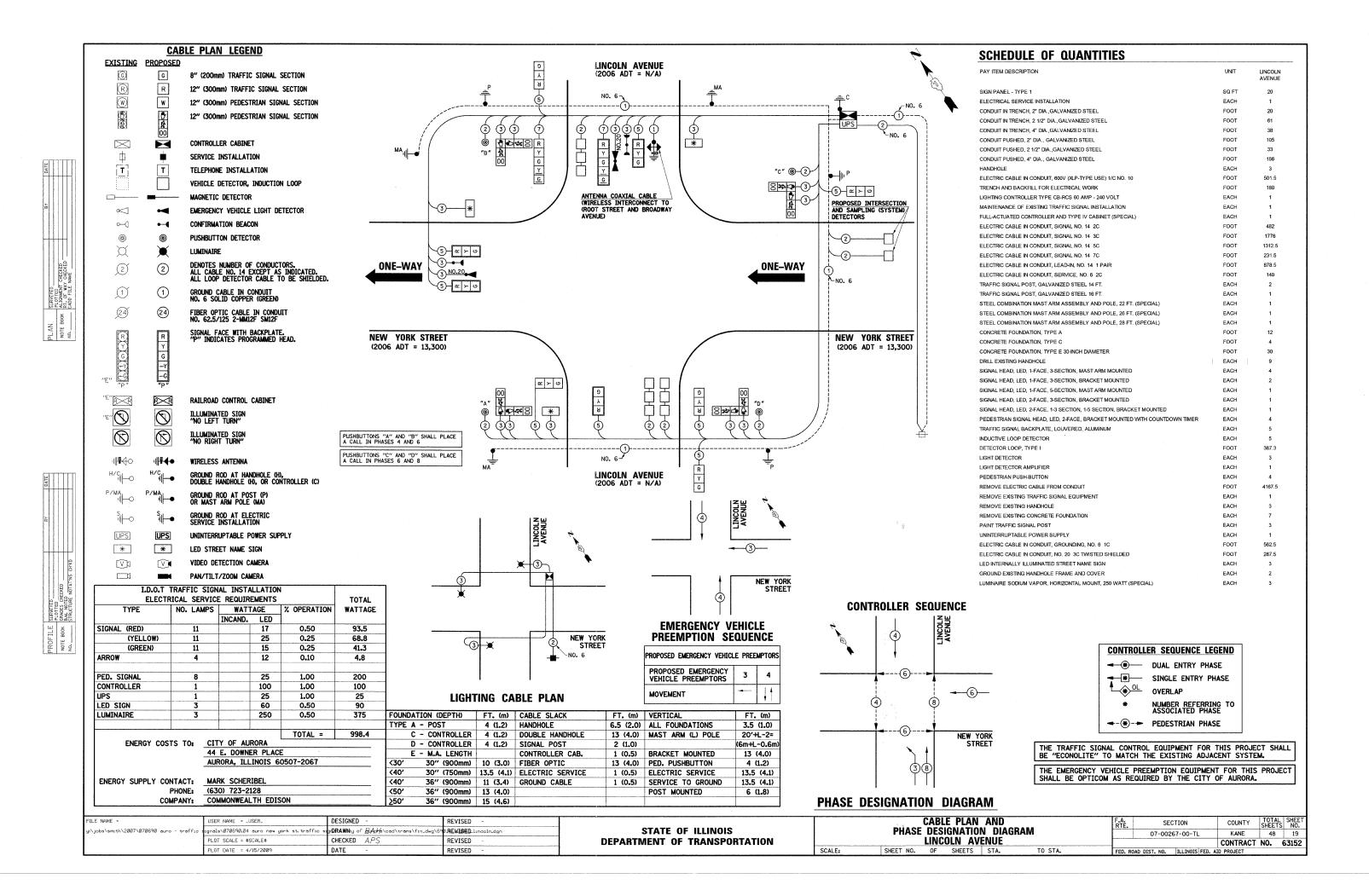


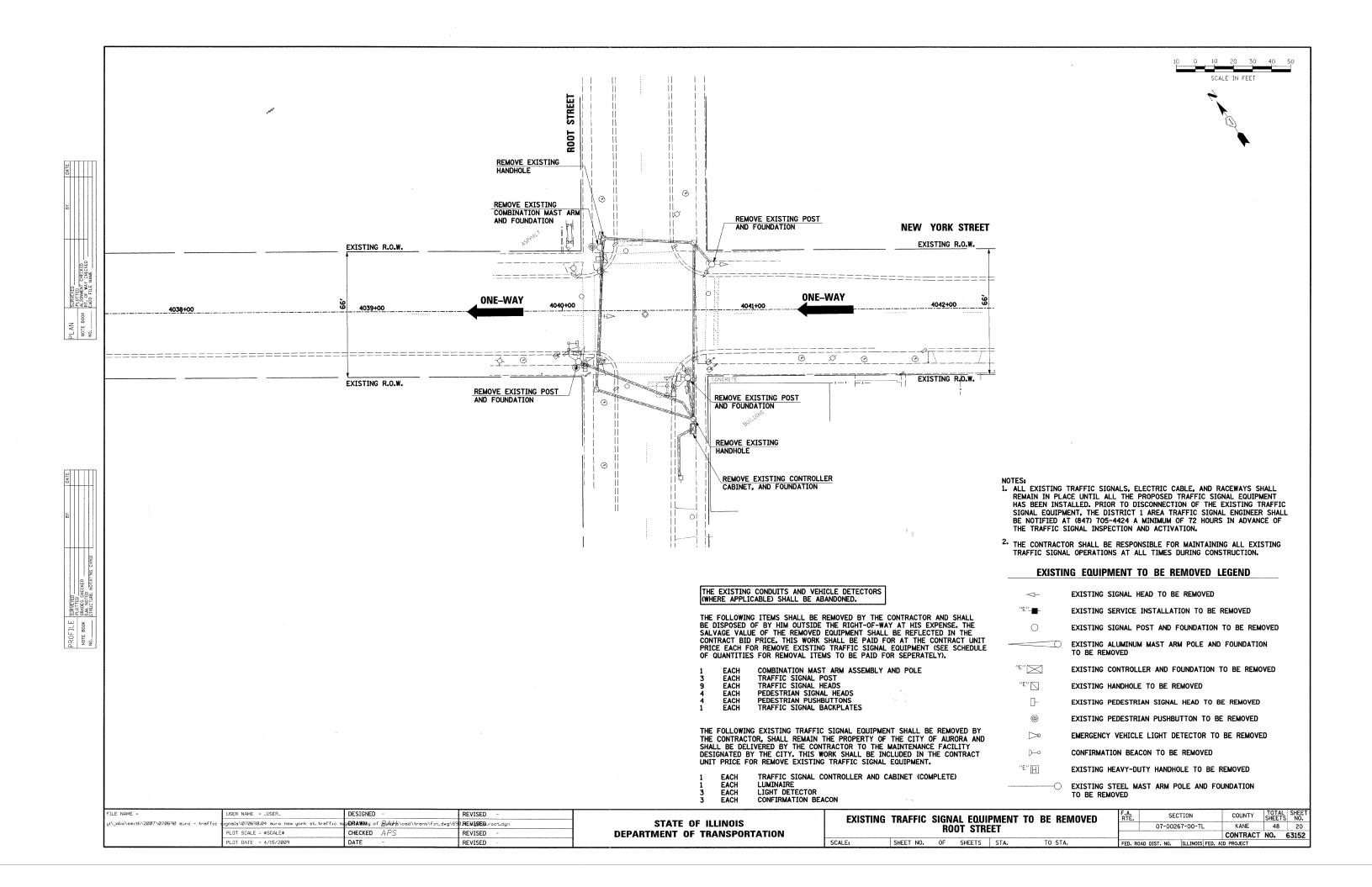


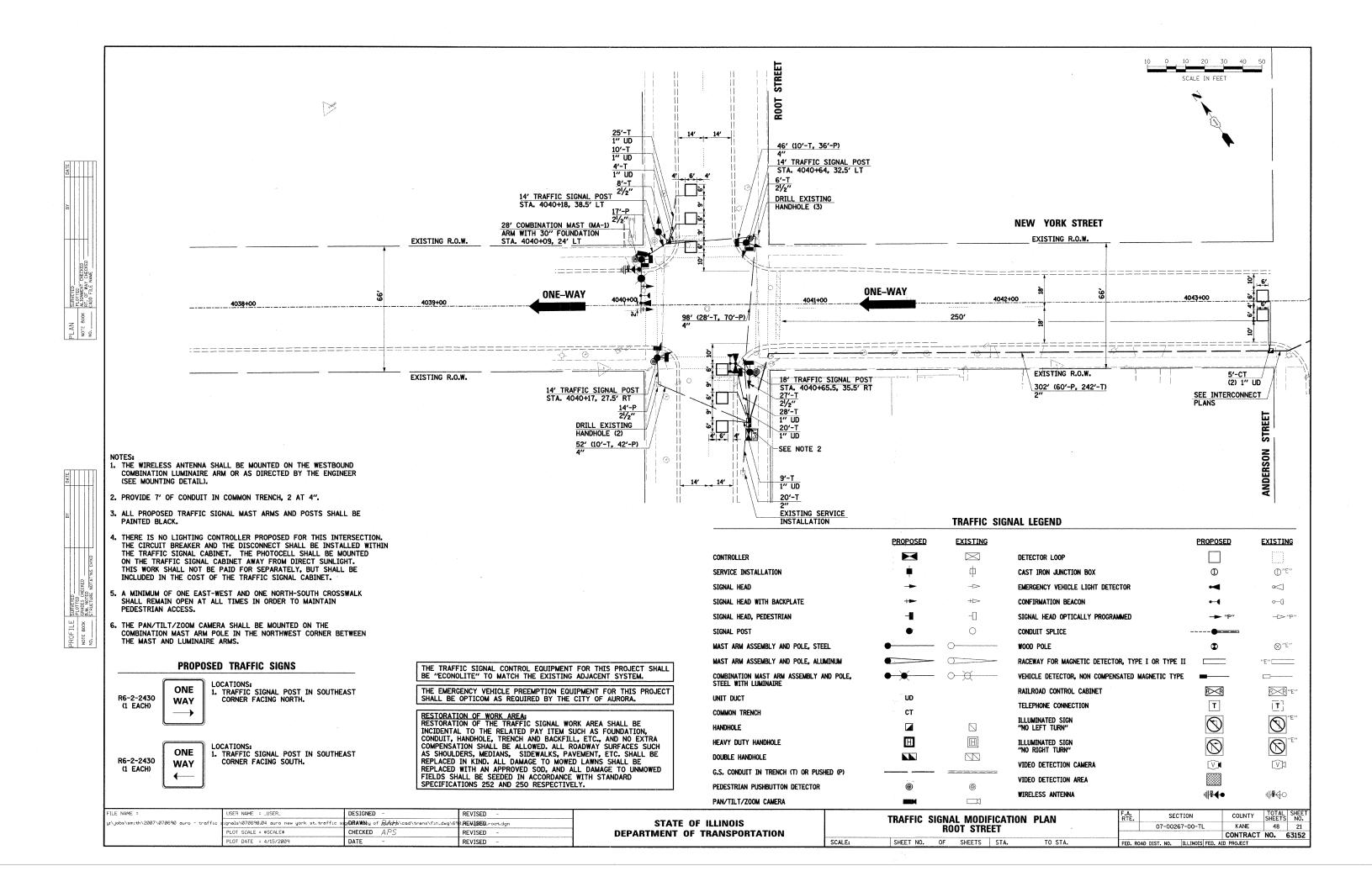


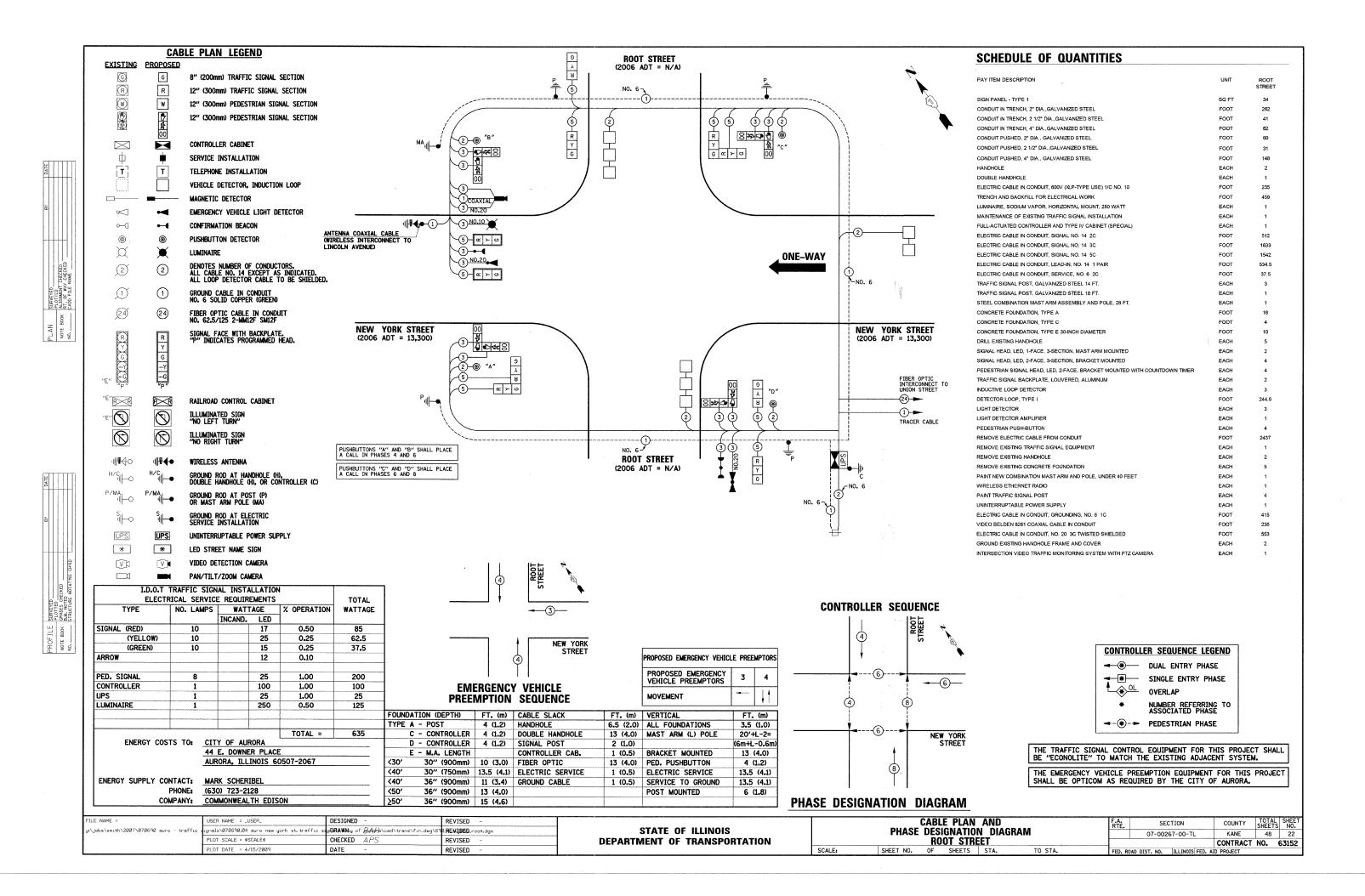


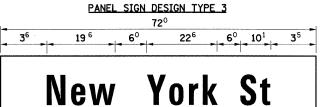












NOTE: THESE SIGNS SHALL BE MOUNTED ON THE FRONT AND BACK OF THE MAST ARM POLE PER THE SINGLE ARM DETAIL AT RIGHT OR AS DIRECTED BY THE ENGINEER.

PANEL SIGN DESIGN TYPE 3 48 ⁰

Root St

18 0 80 60

18 0 80 60

PLAN SURVEYED FOTED NOTE BOOK ALLOWENT CHECKED NO. CADD FILE NAME

MA-19.00 Sq. Ft each 2 Required

18" 2" 12" 30" 2" 22" Design Series D

2"±

MA-1NOTE: THIS SIGN SHALL BE MOUNTED ON THE MAST ARM IN ACCORDANCE WITH STANDARD 720016 OR AS DIRECTED BY THE ENGINEER. 6.00 Sq. Ft each 1 Required

Design Series D

SINGLE ARM

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 2374 THROUGH 2377, AS APPLICABLE, PLUS A 2'-6" BY 6'-0" SIGN PANEL 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 HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.

- 3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0"
- 4. ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 21/4".
- 5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

 A.K.T. CORPORATION SCHAUMBURG, IL.

. AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL.

 TUCKER COMPANY, INC. WAUWATOSA, WI.

WESTERN TRAFFIC CONTROL, INC. CICERO, IL.

PARTS LISTING:

SIGN CHANNEL

PART 3HPN053 (MED. CHANNEL)
1/4" X 14 X 1" H.W.H. #3 SIGN SCREWS SELF TAPPING WITH NEOPREAM WASHER

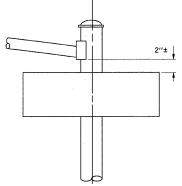
BRACKETS

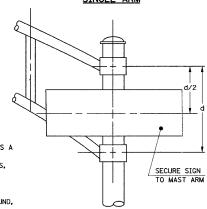
PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

SUPPORTING CHANNELS (A-C)/2 (A-C)/2 A B C

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5





DUAL ARM

						SE	CON) LE	ETTE	ER							
		a c g (d e o q	b h m n į	ikl oru	f	W		j	S	t	٧	у	;	(1	<u>z</u>
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
	AWX	12	14	14	1 ⁵	12	14	06	10	11	14	06	10	11	12	12	14
	В	14	1 ⁵	20	2 ¹	14	15	11	12	14	15	12	14	12	14	16	17
	CEG	14	1 ⁵	20	2 ¹	1-2-	14	06	10	1 ²	14	12	14	14	15	14	1 ⁵
F I	DOQR	14	1 ⁵	2 ⁰	2 ¹	14	15	06	10	1 ²	14	12	14	14	15	14	15
Ř	F	05	06	14	1 ⁵	06	10	05	Oe	O _e	10	O _e	10	O _e	10	1 ¹	12
S T	HIMN	20	2 ¹	2 ²	24	20	2 ¹	14	1 ⁵	16	17	16	17	20	2 ¹	20	21
i	JU	20	2 ¹	20	2 ¹	16	17	14	15	16	17	16	17	16	17	20	21
L E	K L	1 ¹	12	16	17	11	1 ²	05	06	11	12	11	12	1 ¹	1 ²	1 ²	14
T T	Р	1 ²	14	14	1 ⁵	12	14	05	06	1 ¹	12	11	1 ²	12	14	1 ²	14
Ė	S	12	14	16	17	12	14	O _e	10	1 ²	14	12	14	12	14	1 ²	14
R	Т	11	12	16	17	06	10	06	10	1 ¹	1 ²	11	12	1 ¹	1 ²	1 ²	14
	٧	06	10	14	1 ⁵	11	12	06	10	1 ²	14	12	14	1 ²	14	1 ²	14
	Y	O ⁵	O _e	14	1 ⁵	06	10	05	06	05	07	05	06	06	10	11	12
	Z	16	17	2 ²	24	16	17	12	14	16	17	16	17	16	17	20	21

Upper Case To Lower Case Spacing Chart 8-6 Inch Series "C & D"

Lower Case To Lower Case Spacing Chart 6 Inch Series "C & D"

						SE	CON) LI	ETT	ΞR							
		a c	d e o q	p h		f	w		j	S	†	v	у		×	7	Z
	SERIES	С	D	С	D	С	D	O	D	С	D	,C	D	С	D	С	D
F	adhgij	16	17	2 ²	24	16	17	1 ²	14	14	1 ⁵	14	15	16	17	16	17
Ŕ	Imnqu										_	-			-		<u> </u>
S	bfkops	1 ²	14	16	17	11	12	05	06	11	1 ²	11	12	12	14	12	14
T	се	12	14	16	17	1 ²	14	06	10	12	14	12	14	12	14	12	14
Ļ	r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
E	† z	12	14	16	17	1 ²	14	06	10	11	12	11	12	12	14	12	14
T	v y	11	12	14	1 ⁵	11	12	05	06	06	1,0	06	10	11	12	11	12
R	w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
	x	12	14	16	17	11	1 ²	05	06	1 ¹	12	11	12	11	12	12	14

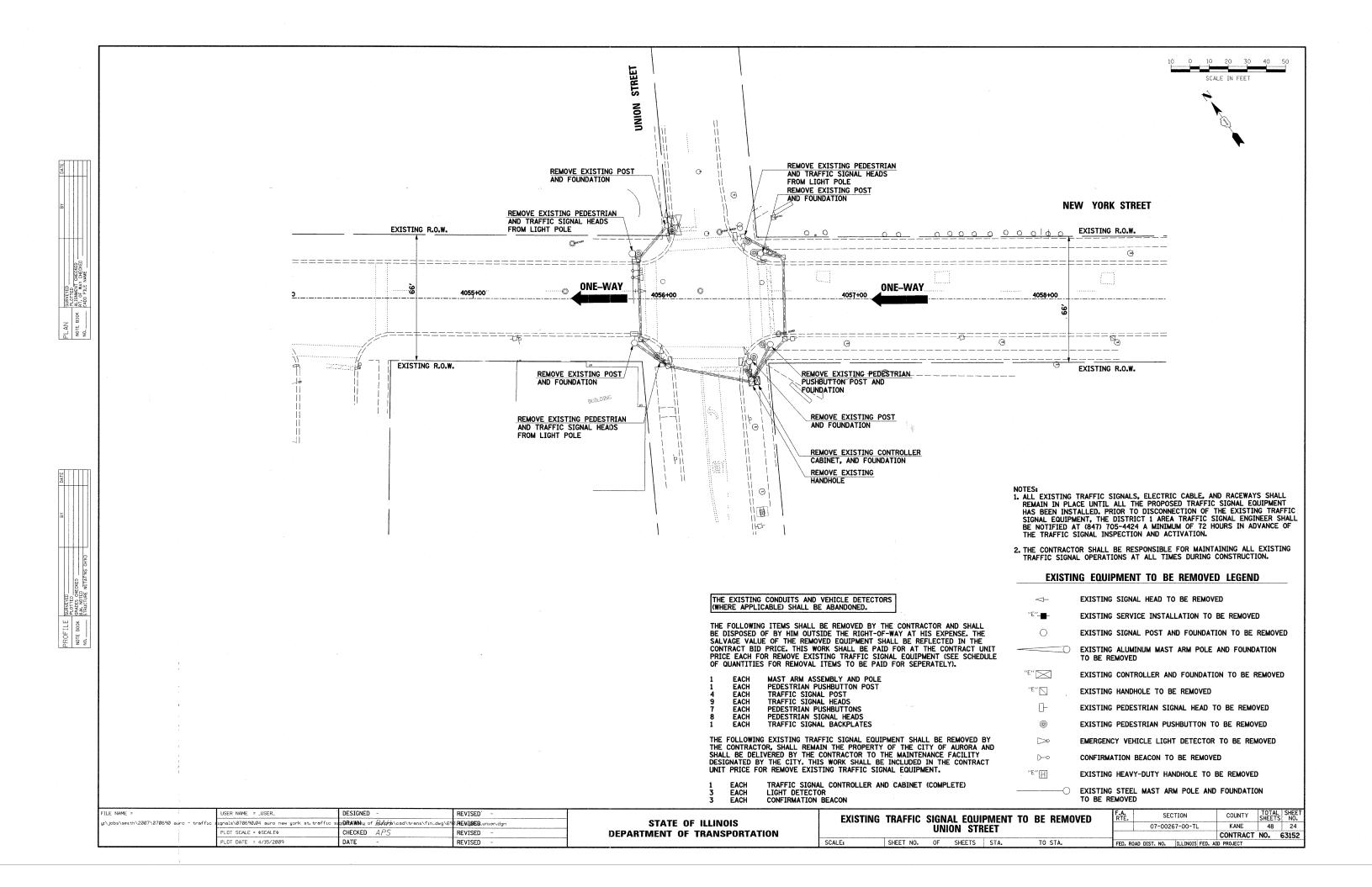
Number To Number Spacing Chart 8 Inch Series "C & D"

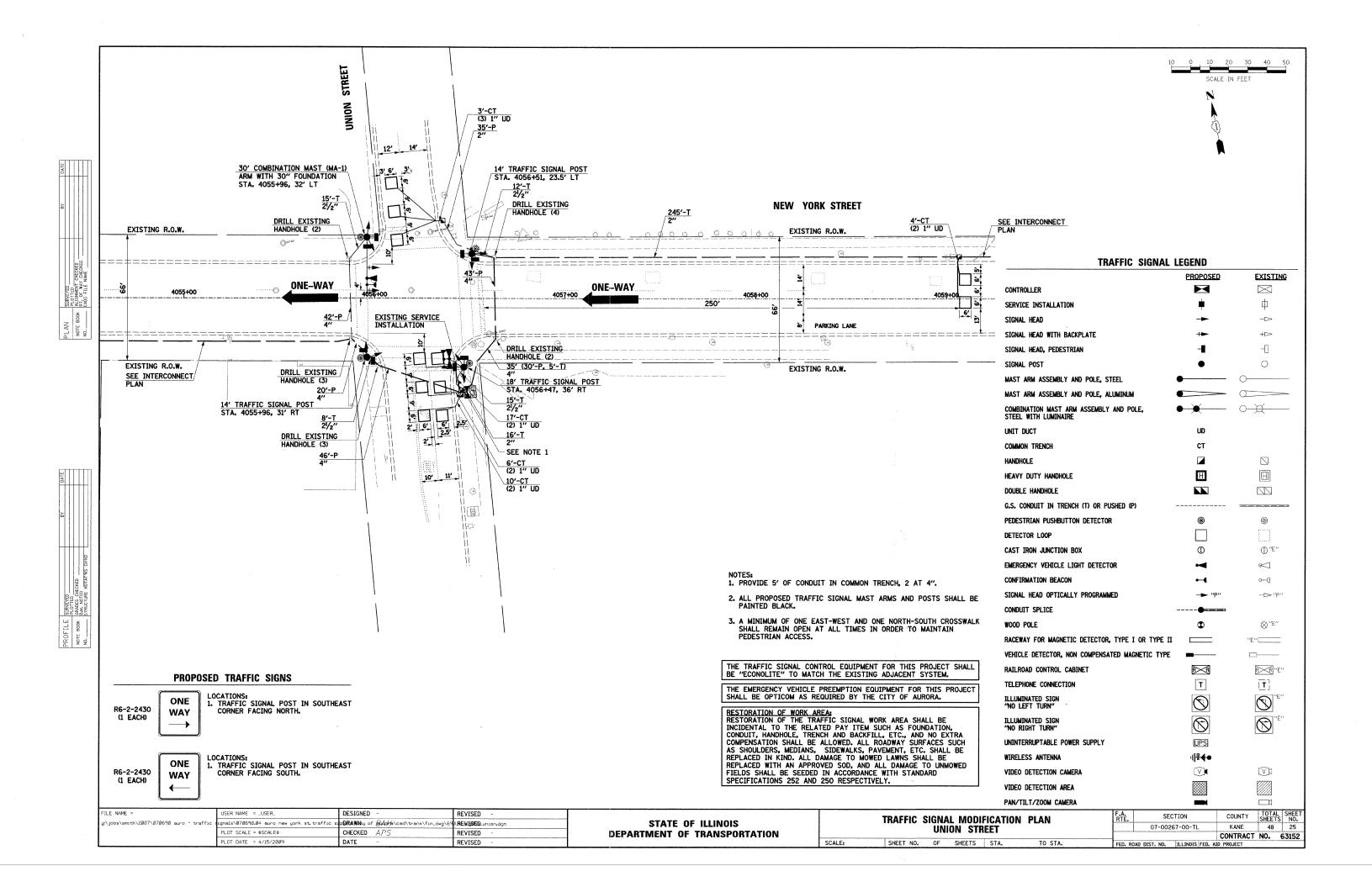
									S	ECC	ND	LE	TTE	R								
			()	1	1	2	2		3	,	4	į	5	(5	-	7	8	3	Ç	3
	F	SERIES	С	D	U	D	С	D	С	D	С	D	C	D	С	D	С	D	С	D	С	D
1	I	0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
	R S	1	20	21	20	2 ¹	20	2 ¹	16	17	14	15	20	2 ¹	20	2 ¹	14	15	20	21	20	21
	Τ	2 3 4	14	1 ⁵	14	1 ⁵	14	1 ⁵	12	14	12	14	14	15	14	15	11	12	16	17	14	1 ⁵
	N	5	14	15	14	15	14	1 ⁵	11	12	11	1 ²	14	15	14	15	1 ¹	12	14	15	14	15
	M	6	16	17	14	15	14	1 ⁵	12	15	12	14	14	15	14	1 ⁵	11	12	14	15	14	15
	B E	7	1 ²	14	1 ²	14	14	1 ⁵	12	15	05	06	12	14	14	1 ⁵	11	12	14	1 ⁵	12	14
	R	8	16	17	16	17	14	1 ⁵	12	15	12	14	14	15	16	17	12	14	16	17	14	15

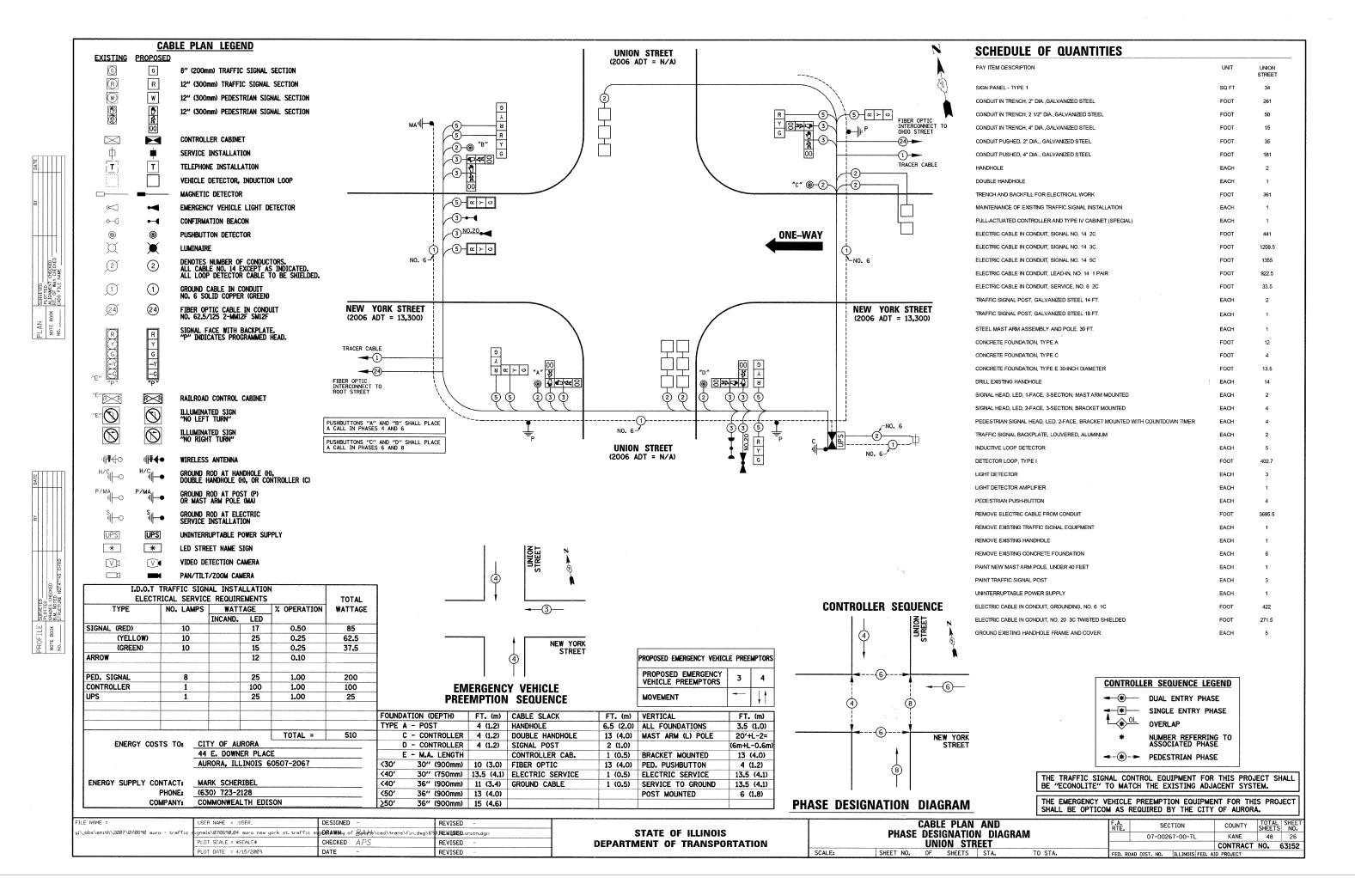
L _{ET} RS	6 INCH CASE LE		8 INCH CASE LE	UPPER TTERS	LETTERS	6 INCH CASE LE	LOWER ETTERS
E	SER	IES	SER	IES	Ep	SER	IES
'`s	С	D	С	D	'`s	С	D
Α	36	50	50	6 ⁵	a	35	42
В	3 ²	40	43	53	Ь	3 ⁵	42
С	3 ²	40	43	5 ³	С	35	41
D	3 ²	40	43	5 ³	Ф	35	42
Ε	30	3 ⁵	40	47	е	3 ⁵	42
F	3 ⁰	3 ⁵	40	47	f	2 ³	2 ⁶
G	3 ²	40	43	5 ³	g	35	42
T	3 ²	40	43	53	h	3 ⁵	42
I	07	07	1 ¹	1 ²	ī	1 ¹	11
J	30	36	40	50	J	20	2 ²
K	3 ²	41	43	5 ⁴	k	3 ⁵	42
L	30	3 ⁵	40	4 ⁷	ı	1 ¹	11
М	3 ⁷	45	5 ¹	6 ¹	m	6º	7 ⁰
N	3 ²	40	43	53	n	35	42
0	34	42	45	5 ⁵	0	36	43
Р	3 ²	40	43	53	р	3 ⁵	42
Q	34	42	45	55	q	3 ⁵	42
R	3 ²	40	43	53	r	2 ⁶	3 ²
S	3 ²	40	43	5 ³	S	3 ⁶	42
Т	30	3 ⁵	40	47	+	2 ⁷	3 ²
IJ	3 ² .	40	43	5 ³	u	3 ⁵	42
٧	35	44	47	6 ₀	٧	42	47
W	44	5 ²	6 ₀	70	w	5 ⁵	6 ⁴
Х	34	40	45	53	×	44	5 ¹
Υ	36	50	5 ⁰	6 ⁶	У	46	5 ³
Z	3 ²	40	43	5 ³	z	3 ⁶	43

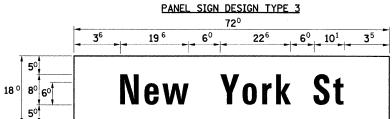
$ ^{N}U_{M-} $	6 INCH	SERIES	8 INCH	SERIES
NU _{MBER}	С	D	С	D
1	1 ²	14	15	2 ⁰ 5 ³
2	32	40	43	
3	3 ²	40	43	53
4	35	43	47	5 ⁷
5	3 ²	40	43	5 ³
6	32	40	43	53
7	3 ²	40	43	53
8	32	40	43	5 ³
9	3 ²	40	43	53
0	3 ⁴	42	45	5 ⁵

	4,									
FILE NAME = '	USER NAME = _USER_	DESIGNED -	REVISED -		MAST ARM MOUNTED	F.A.	SECTION	COUNTY	TOTAL SHE	EET
y:\jobs\smith\2007\070690 auro - traffic s	gnals\070690.04 auro new york st.traffic s	ign DRAWN ty of BlAora\cad\trans\fin_dwg\6°	P.REMISED_root.dgn	STATE OF ILLINOIS	STREET NAME SIGNS	11.7	07-00267-00-TL	KANE	48 2	<u>3</u>
	PLOT SCALE = #SCALE#	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	ROOT STREET		······································	CONTRACT	T NO. 6315	52
	PLOT DATE = 4/15/2009	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROA	AD DIST. NO. ILLINOIS FEI	D. AID PROJECT		









NOTE: THESE SIGNS SHALL BE MOUNTED ON THE FRONT AND BACK OF THE MAST ARM POLE PER THE SINGLE ARM DETAIL AT RIGHT OR AS DIRECTED BY THE ENGINEER.

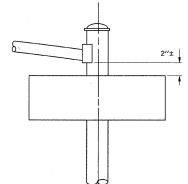
PANEL SIGN DESIGN TYPE 3 48 ⁰

(A-C)/2 A B C 18" 2" 12" 30" 2" 22"

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note *5

SUPPORTING CHANNELS

(A-C)/2



SINGLE ARM

SECURE SIGN TO MAST ARM

DUAL ARM

MA-1

MA-1

6.00 Sq. Ft each 1 Required Design Series D

9.00 sq. Ft each 2 Required Design Series D

GENERAL NOTES

NOTE: THIS SIGN SHALL BE MOUNTED ON THE MAST ARM IN ACCORDANCE WITH STANDARD 720016 OR AS DIRECTED BY THE ENGINEER.

 WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 2374 THROUGH 2377, AS APPLICABLE, PLUS A DESIGNED 10 SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 2314 THROUGH 2311, AS AFFLICABLE, FLOS 22-6" BY 6"-0" SIGN PANEL 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 HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.

3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0"

4. ALL BORDERS SHALL BE $\frac{3}{4}$ " WIDE AND CORNER RADIUS SHALL BE $2^{1}/_{4}$ ".

5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

A.K.T. CORPORATION

. AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL.

· TUCKER COMPANY, INC. WAUWATOSA, WI.

. WESTERN TRAFFIC CONTROL, INC. CICERO. IL.

PARTS LISTING:

SIGN CHANNEL PART 3HPN053 (MED. CHANNEL) SIGN SCREWS

BRACKETS

1/4" X 14 X 1" H.W.H. #3
SELF TAPPING WITH NEOPREAM WASHER PART *HPNO34 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND

						SE	CON	D LI	ETTE	ER							
		a c	d e		iki	f	w		J	s	†	ν	у	,	×	-	Z
	SERIES	С	D	С	- D	С	D	С	D	С	D	С	D	С	D	С	D
	AWX	1 ²	14	14	1 ⁵	12	14	O _e	10	11	14	O _e	10	11	12	12	14
	В	14	15	20	2 ¹	14	15	11	12	14	15	1 ²	14	1 ²	14	16	17
	CEG	14	15	20	2 ¹	12	14	O _e	10	12	14	1 ²	14	14	15	14	1 ⁵
F	DOQR	14	15	20	2 ¹	14	15	06	10	12	14	12	14	14	15	14	15
I R	F	05	06	14	1 ⁵	Oe	10	05	O _e	06	10	06	10	O _e	10	11	12
S T	HIMN	20	2 ¹	2 ²	24	20	2 ¹	14	1 ⁵	16	17	16	17	20	2 ¹	20	21
	JU	20	2 ¹	20	21	16	17	14	1 ⁵	16	17	16	17	16	17	20	2 ¹
E	K L	11	12	16	17	11	12	05	O _e	11	12	11	12	11	12	12	14
T	Р	12	14	14	15	12	14	O ⁵	06	11	12	11	12	12	14	12	14
Ė	S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
R	Т	11	12	16	17	06	10	06	10	1 ¹	12	11	12	1 ¹	12	12	14
	٧	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
	Y	05	06	14	1 ⁵	06	10	05	06	05	07	05	06	06	10	11	12
	Z	16	17	2 ²	24	16	17	12	14	16	17	16	17	16	17	2 ⁰	21

Upper Case To Lower Case Spacing Chart 8-6 Inch Series "C & D"

Lower Case To Lower Case Spacing Chart 6 Inch Series "C & D"

						SE	CON	D LI	ETTI	ΞR							
		a c	d e	b h m n ı	ikl	f	W		J	s	†	V	У	,	ĸ	-	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	C	D	С	D	С	D
F	adhgij Imnqu	16	17	2 ²	24	16	17	1 ²	14	14	1 ⁵	14	15	16	17	16	17
R	bfkops	12	14	16	17	11	1 ²	05	06	11	12	11	12	12	14	12	14
T	се	1 ²	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
Ļ	r	06	10	1 ²	14	06	10	O ³	03	O ⁵	06	05	06	06	10	06	10
E T	† z	12	14	16	17	12	14	06	10	1 ¹	12	11	12	1 ²	14	12	14
T E	νу	11	1 ²	14	1 ⁵	11	1 ²	05	06	06	1º	06	10	11	1 ²	11	1 ²
R	w	11	12	14	15	11	12	05	06	1 ¹	1 ²	11	12	1 ¹	1 ²	12	14
	x	1 ²	14	16	17	1 ¹	1 ²	O ⁵	O _e	11	12	11	12	11	1 ²	12	14

Number To Number Spacing Chart 8 Inch Series "C & D"

								S	ECC	ND	LE	TTE	R								
		()			2	2		3	,	4		5	(5	-	7	8	3	9	9
F	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	C	D
I	0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
R	1	20	2 ¹	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	2 ¹	20	21
T	2 3 4	14	15	14	15	14	15	12	14	12	14	14	1 ⁵	14	15	1 ¹	12	16	17	14	1 ⁵
N	5	14	15	14	1 ⁵	14	1 ⁵	11	1 ²	11	12	14	1 ⁵	14	15	11	1 ²	14	15	14	15
M	6	16	17	14	1 ⁵	14	15	12	15	1 ²	14	14	15	14	15	11	12	14	1 ⁵	14	1 ⁵
B	7	1²	14	1²	14	14	15	12	15	05	O _e	1²	14	14	15	11	12	14	15	12	14
R	8	16	17	16	17	14	15	12	15	12	14	14	1 ⁵	16	17	12	14	16	17	14	1 ⁵

SCALE:

E _T E R _S	6 INCH CASE LE		8 INCH CASE LE	UPPER ETTERS	LERS	6 INCH CASE LE	
T _E	SER	RIES	SER	RIES	T _E	SER	RIES
, 'S	С	D	С	D	s	С	D
Α	3 ⁶	5 ⁰	5 ⁰	6 ⁵	а	3 ⁵	42
В	3 ²	40	43	5 ³	Ь	3 ⁵	42
C	3 ²	40	43	5 ³	0	3 ⁵	41
D	3 ²	40	43	5 ³	d	35	42
E	30	3 ⁵	40	47	е	3 ⁵	42
F	30	35	40	47	f	2 ³	26
G	3 ²	40	43	53	g	3 ⁵	42
Η	3 ²	40	43	53	h	3 ⁵	42
I	07	07	11	12	i	11	1 ¹
J	3 ⁰	36	40	5 ⁰	j	2 ⁰	2 ²
K	3 ²	41	43	54	k	3 ⁵	42
L	30	35	40	47	ı	11	1 ¹
М	3 ⁷ .	45	51	6 ¹	m -	6º	70
N	3 ²	40	43	53	n	3 ⁵	42
0	34	42	45	55	0	3 ⁶	43
Р	3 ²	40	43	5 ³	Р	3 ⁵	42
Q	3 ⁴	42	45	5 ⁵	Р	3 ⁵	42
R	3 ²	40	43	5 <u>3</u>	r	2 ⁶	3 ²
S	32	40	43	53	S	36	4 ²
Т	30	3 ⁵	40	47	+	27	3 ²
U	3 ²	40	43	5 ³	u	3 ⁵	42
٧	35	44	47	6 ⁰	٧	42	47
W	4 ⁴	5 ²	6 ⁰	70	w	5 ⁵	64
Х	34	40	45	53	×	44	5 ¹
Y	3 ⁶	50	50	6 _e	У	46	5 ³
Z	3 ²	40	43	53	Z	36	43

	6 INCH	SERIES	8 INCH	SERIES
NU _{MBER}	С	D	С	D
1	1 ²	14	15	20
2	3 ²	40	43	53
3	3 ²	40	43	53
4	3 ⁵	43	47	5 ⁷
5	3 ²	40	43	53
6	3 ²	40	43	53
7	3 ²	40	43	5 ³
8	3 ²	40	43	5 ³
9	3 ²	40	43	5 ³
0	34	42	45	55

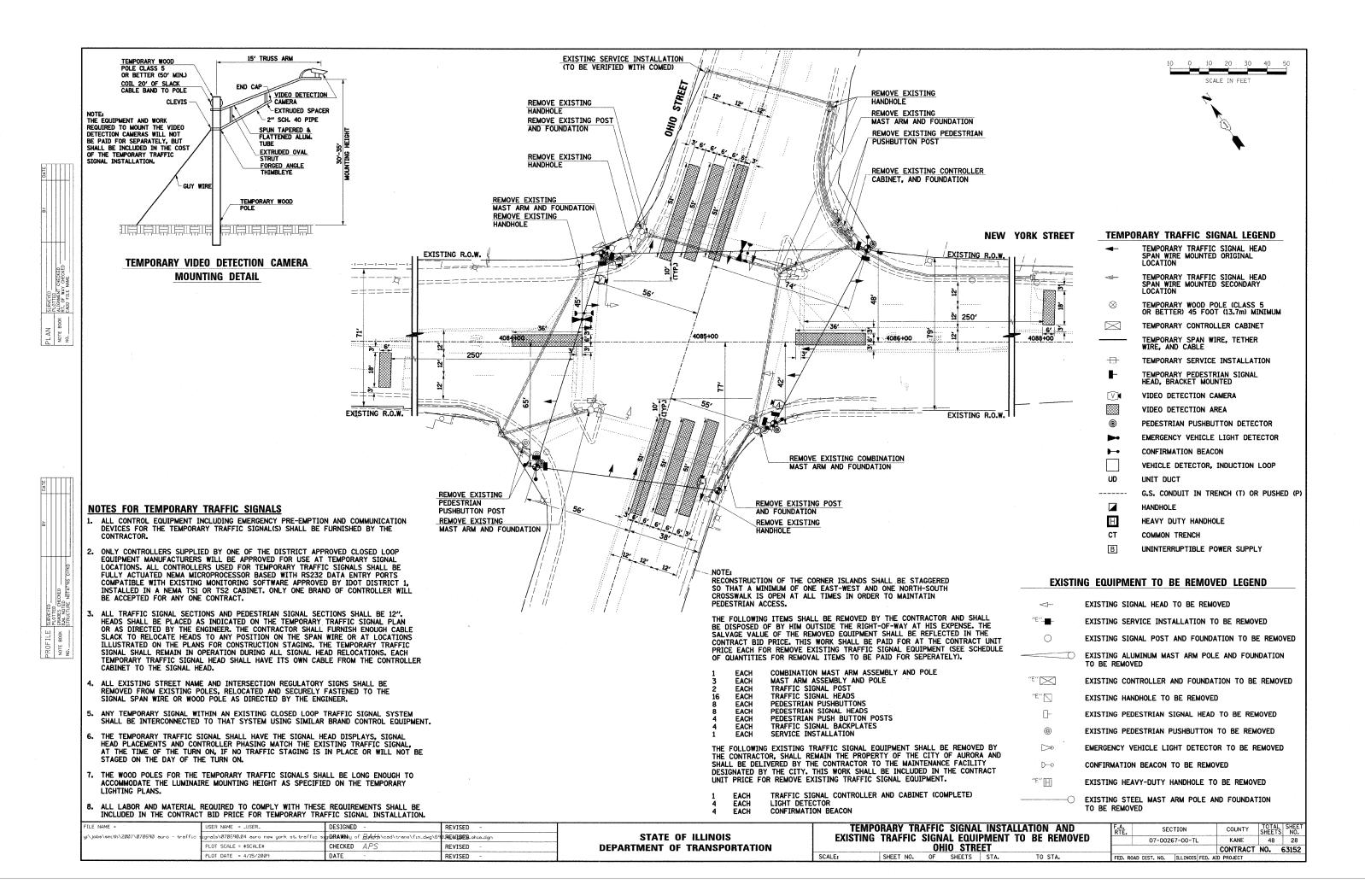
COMMATIBLETTY WITH THE CHAR	MILE, BRACKET OF THE ABOVE TROBUCTS		
LE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
\Jobs\smith\2007\070690 auro - traffic s	ignals\070690.04 auro new york st.traffic si	g DRAWN ty of <i>BlAdrl</i> o\cad\trans\fin_dwg\698	PREMISED union.dgn
	PLDT SCALE = \$SCALE\$	CHECKED APS	REVISED -
	PLOT DATE = 4/15/2009	DATE -	REVISED -

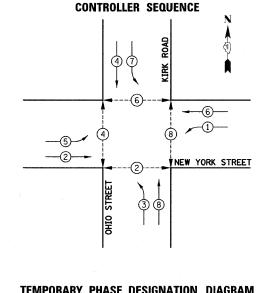
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

A											
	MA			OUNTED		F.A. RTE.	SE	CTION	COUNTY	TOTAL	SHEET NO.
	51	REET					07-002	267-00-TL	KANE	48	27
		UNI	<u>on str</u>	EET					CONTRACT	NO.	63152
HEET	NO	OF	SHEETS	AT2	AT2 OT	EED DO	AD DICT NO	TI I THOTE EED	ATD DOO IECT		

PLAN SURVEYED PLOTTED NOTE BOOK RT. OW AVY CHECKED NO. CADD FILE NAME

18 0 80 60







PLAN SURVEYED
NOTE BOOK ALKAMENT CHECKED
NO. CADD FILE NAME

Pl A	JSHE CAL	BUT L	TO IN	NS PH	"A" ASES	SH S 2	AND	PL 4	ACE
Pi A	JSHE	BUT	TO IN	NS PH	"B"	SF S 4	AND	PL 6	ACE
Pl A	JSHE CAL	BUT	TO IN	NS PH	"C"	SH S 6	AND	PL 8	ACE
PL A	JSHE	BUT	TO IN	NS PH	"D"	SH S 2	IALL AND	PL 8	ACE
								,	

CONTROLLER SEQUENCE LEGEND

→ W DUAL ENTRY PHASE

→-*- PEDESTRIAN PHASE

* OL OVERLAP

SINGLE ENTRY PHASE

NUMBER REFERRING TO ASSOCIATED PHASE

I.D.O.T													
	RICAL SERVICE												
(MAINTENANCE					TOTAL								
TYPE	NO. LAMPS	WATT	AGE	% OPERATION	WATTAGE								
INCAND. LED													
SIGNAL (RED) 12 17 0.50 102													
(YELLOW)	12		25	0.25	75								
(GREEN)	12		15	0.25	45								
ARROW	16		12	0.10	19.2								
PED. SIGNAL	8		25	1.00	200								
CONTROLLER	1		100	1.00	100								
VIDEO SYSTEM	1		15	1.00	15								
UPS	1		25	1.00	25								
				0.50									
			:										
		***************************************	:	TOTAL =	581.2								
ENERGY COSTS TO: CITY OF AURORA													
	44	E. DOWN	ER PLAC	E									
AURORA, ILLINOIS 60507-2067													

	ENERGY	SUPPLY	CONTACT: PHONE:	MARK SCHERIBE (630) 723-2128	L		_
			COMPANY:	COMMONWEALTH	EDISON		_
							_
ILE I	NAME =			USER NAME = _USER_		DESIGNED -	

OHIO STREET NO. 6 В (7) R Y G 3 0 4 ® NO. 16 V (5)-a>0 7-4-0-0 3-1-1 3 NO.20 0 < 0 < 20 - 7 7-670 0 < 0 < D-7 o ≺ ⊅ - 5 -NEW YORK STREET (2)-⊚"A" [**¾** う へ の 人 の 人 の 人 の 一 で で 人の 人 カ 一 で FR Y G

TEMPORARY CABLE DIAGRAM LEGEND

TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)

 \boxtimes TEMPORARY CONTROLLER CABINET

 \Box TEMPORARY SERVICE INSTALLATION

INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NO. 14 (5) AWG WIRE UNLESS OTHERWISE NOTED.

EMERGENCY VEHICLE LIGHT DETECTOR

CONFIRMATION BEACON

VEHICLE DETECTOR, INDUCTION LOOP

PEDESTRIAN PUSHBUTTON DETECTOR

12" (300mm) PEDESTRIAN SIGNAL SECTION

(V)¶ VIDEO DETECTION CAMERA

В UNINTERRUPTABLE POWER SUPPLY



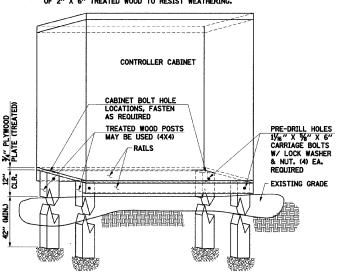
TYPE "A" SHEETING REQUIRED 5.0 SQ. FT. EACH 4 REQUIRED

LEFT-TURN CONTROL SIGN DETAIL

THIS SIGN SHALL BE MOUNTED ON THE SPAN WIRE, 6 TO 12 INCHES TO THE RIGHT OF THE LEFT MOST SIGNAL HEAD IN ALL DIRECTIONS.

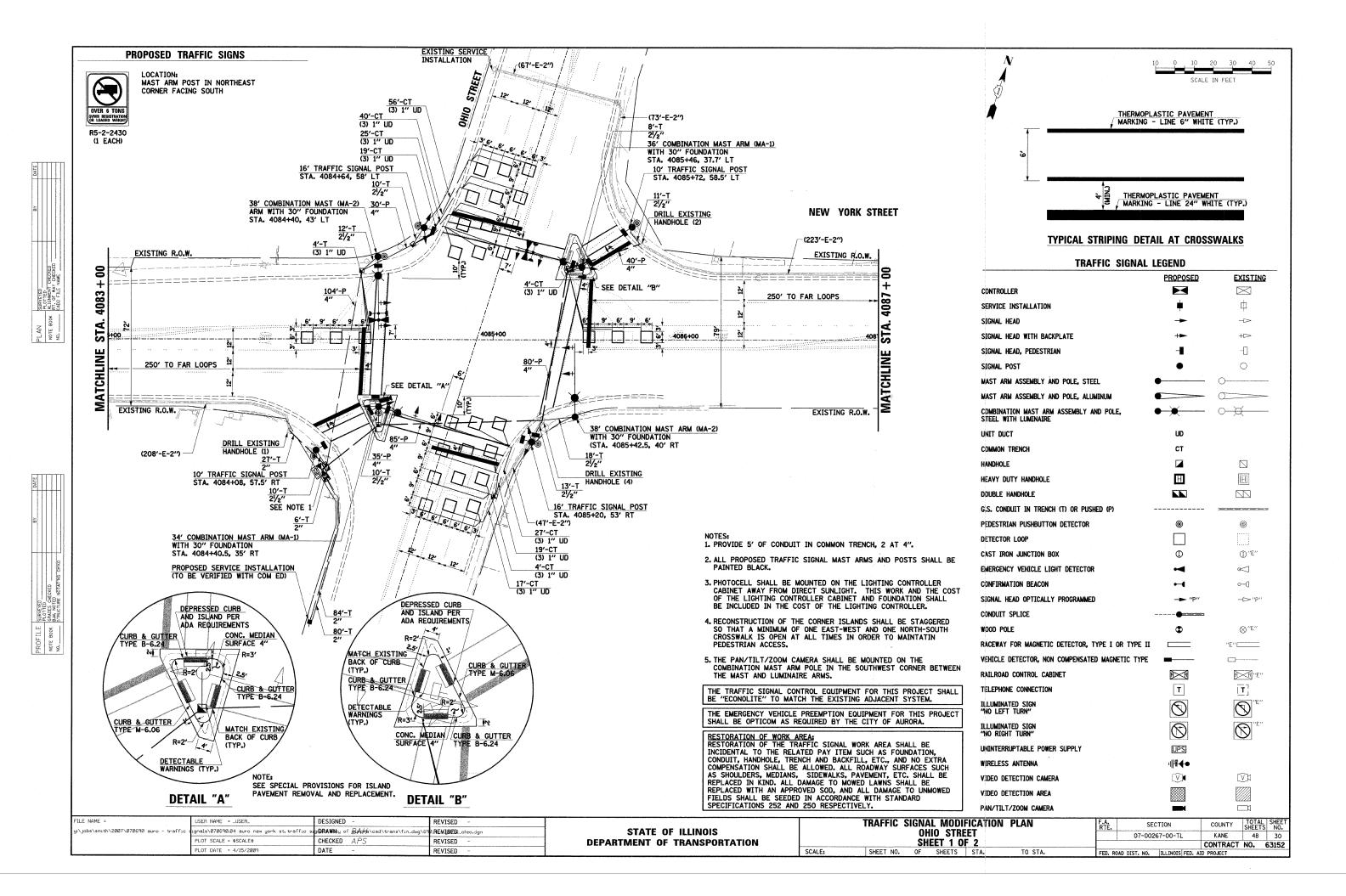
CONTROLLER CABINET TYPE AND DIMENSIONS VARY.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT
CABINET DIMENSIONS PRIOR TO THE CONSTRUCTION OF
THE CABINET MOUNTING PLATFORM SHOWN BELOW.

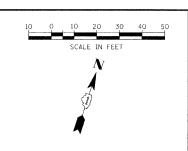
CABINET PLATFORM LEGS AND RAILS SHALL BE CONSTRUCTED OF 2" X 6" TREATED WOOD TO RESIST WEATHERING.

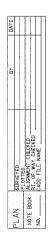


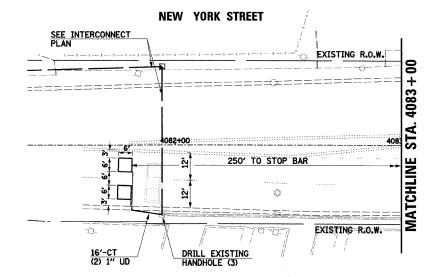
TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM DETAIL

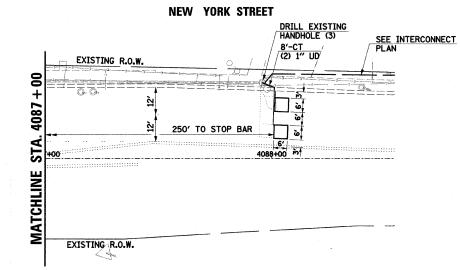
L							TO TO SOFTEE	
ı	FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -		TEMPORARY TRAFFIC SIGNAL	F.A. SECTION COUNTY TOTAL SH	EET
- 1	y:\jobs\sm:th\2007\070690 auro - traffic s	ignals\070690.04 auro new york st.traffic si	gDRAWNty of BJAdHa\cad\trans\fin_dwg\69	P.REVISED:_chro.dgn	STATE OF ILLINOIS	CABLE PLAN AND PHASE DESIGNATION DIAGRAM	07-00267-00-TL KANE 48 2	29
- 1		PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	OHIO STREET	CONTRACT NO. 631	52
L		PLOT DATE = 4/15/2009	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	<i></i>









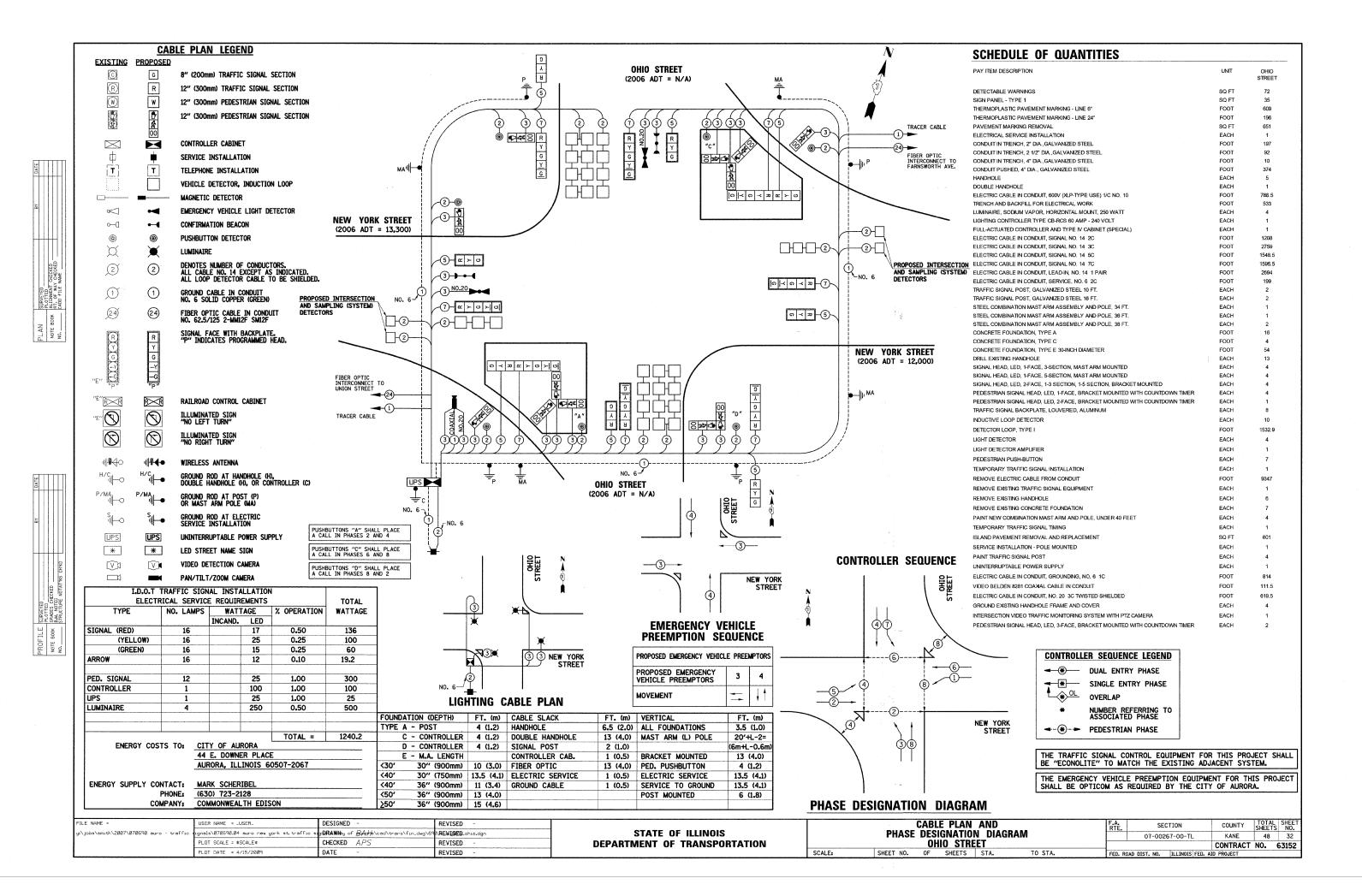


	PROPOSED	EXISTING
CONTROLLER	\blacksquare	
SERVICE INSTALLATION		ф
SIGNAL HEAD	-	>
SIGNAL HEAD WITH BACKPLATE	+-	+{>
SIGNAL HEAD, PEDESTRIAN	-	[]
SIGNAL POST		0
MAST ARM ASSEMBLY AND POLE, STEEL	•	0
MAST ARM ASSEMBLY AND POLE, ALUMINUM		0
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	• *	0
UNIT DUCT	UD	
COMMON TRENCH	СТ	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		Total base and the same and the
PEDESTRIAN PUSHBUTTON DETECTOR	•	0
DETECTOR LOOP		
CAST IRON JUNCTION BOX	•	①"E"
EMERGENCY VEHICLE LIGHT DETECTOR	•	\otimes
CONFIRMATION BEACON	⊢	~ -(
SIGNAL HEAD OPTICALLY PROGRAMMED	→ "P"	~[>"P"
CONDUIT SPLICE		
WOOD POLE	•	⊗′′E″
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		₹ ″E"
TELEPHONE CONNECTION	T	T]
ILLUMINATED SIGN "NO LEFT TURN"	\bigcirc	(NE"
ILLUMINATED SIGN "NO RIGHT TURN"		(C)
UNINTERRUPTABLE POWER SUPPLY	UPS	
WIRELESS ANTENNA .	₩4•	
VIDEO DETECTION CAMERA	\bigcirc	\bigcirc
VIDEO DETECTION AREA		
PAN/TILT/ZOOM CAMERA		

TRAFFIC SIGNAL MODIFICATION PLAN
OHIO STREET
SHEET 2 OF 2
SHEET NO. OF SHEETS STA. TO ST
 COUNTY
 TOTAL SHEET NO.

 KANE
 48
 31

 CONTRACT
 NO.
 63152
 DESIGNED REVISED SECTION STATE OF ILLINOIS y:\Jobs\smith\2007\070690 auro - traffi ignals\070690.04 auro new york st. traffic s gn**DRAWN**by of *ByAgh*a\cad\trans\fin_dwg\6 P.REWISED2_ohro.dgn 07-00267-00-TL CHECKED APS **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = \$SCALE\$ REVISED PLOT DATE = 4/15/2009 DATE REVISED TO STA.



Α

В

С

D

6 INCH UPPER CASE LETTERS

36

32

32

32

30

30

SERIES

50

40

40

40

35

35

						SE	CON	D LI	ETTI	ER							
		acde goq		bhikl mnpru		fw		j		s t		v y		x		:	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
	AWX	12	14	1,4	15	12	14	06	10	11	14	06	10	11	12	12	14
	В	14	15	20	2 ¹	14	15	11	12	14	15	12	14	12	14	16	17
	CEG	14	15	20	21	12	14	O _e	1º	12	14	1 ²	14	14	15	14	15
F	DOQR	14	1 ⁵	20	2 ¹	14	1 ⁵	O _e	10	12	14	12	14	14	15	14	15
I R	F	05	06	14	1 ⁵	06	10	O ⁵	06	06	10	0e	10	06	10	11	12
S	HIMN	20	2 ¹	2 ²	24	20	2 ¹	14	15	16	17	16	17	20	21	20	2 ¹
	JU	20	21	20	21	16	17	14	1 ⁵	16	17	16	17	16	17	20	21
L E	KL	11	12	16	17	1 ¹	12	O ⁵	O _e	11	12	11	12	1 ¹	1 ²	12	14
T	Р	12	14	14	1 ⁵	12	14	05	O _e	11	12	11	1 ²	1 ²	14	12	14
Ē	S	12	14	16	17	12	14	O _e	10	12	14	12	14	1 ²	14	12	14
R	Т	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14
	٧	06	10	14	15	1 ¹	12	6	10	12	14	1 ²	14	1 ²	14	12	14
	Υ	O ⁵	06	14	15	06	10	O ⁵	06	05	07	05	06	06	10	11	12
	Z	16	17	2 ²	24	16	17	1 ²	14	16	17	16	17	16	17	20	21

Lower Case To Lower Case Spacing Chart 6 Inch Series "C & D"

SECOND LETTER																	
			d e	i .	ikl pru	f	w		j	S	†	٧	У	,	×	2	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	C	D	С	D	С	D
F	adhgij Imnqu	16	17	2 ²	24	16	17	1 ²	14	14	15	14	15	16	17	16	17
R S	bfkops	12	14	16	17	11	1 ²	05	O _e	1 ¹	1 ²	11	12	1 ²	14	1 ²	14
T	се	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
L	r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
E	† z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
T E	v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
R	W	11	12.	14	15	11	12	05	06	11	12	11	12	11	12	12	14
	Х	12	14	16	17	11	12	05	O _e	11	12	11	12	11	12	12	14

Number To Number Spacing Chart 8 Inch Series "C & D"

,															<u> </u>	-					
								S	ECC	ND	LE	TTE	R			N 100					
		()	:	l	2	2		3		4		5	(5		7	8	3	ç	3
F	SERIES	С	D	C	D	С	D	С	D	С	D	C	D	С	D	С	D	С	D	С	D
I	0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	1.7	12	14	16	17	16	17
R	1	20	21	20	2 ¹	20	21	16	17	14	15	20	2 ¹	20	21	14	15	20	2 ¹	20	21
T	2 3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15
N	5	14	1 ⁵	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
М	6	16	17	14	15	14	15	12	15	12	14	14	15	14	15	11	12	14	15	14	15
B	7	12	14	1 ²	14	14	1 ⁵	12	15	05	06	1 ²	14	14	15	11	12	14	15	1 ²	14
R	8	16	1 ⁷	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

SCALE:

G	3 ²	40	43	5 ³	g	3 ⁵	42
Н	3 ²	40	43	53	h	35	42
I	O ⁷	O ⁷	11	1 ²	ī	1 ¹	1 ¹
J	30	36	40	50	j	20	2 ²
К	3 ²	41	43	5 ⁴	k	3 ⁵	42
L	30	3 ⁵	40	47	1	11	1 ¹
М	37	45	5 ¹	6 ¹	m	60	70
N	3 ²	40	43	5 ³	n	3 ⁵	42
0	34	42	45	5 ⁵	0	36	43
Р	3 ²	40	43	5 ³	Р	3 ⁵	42
Q	3 ⁴	42	45	55	q	35	42
R	32	40	43	5 ³	r	26	3 ²
S	3 ²	40	43	.53	s	36	42
Т	30	3 ⁵	40	47	+	2 ⁷	3 ²
U	3 ²	40	43	53	u	3 ⁵	42
٧	35	44	47	60	٧	42	47
W	44	5 ²	6º	70	w	5 ⁵	64
X	34	40	45	5 ³	×	44	5 ¹
Y	36	50	50	6 ⁶	У	46	5 ³
Z	3 ²	40	43	5 ³	z	3 ⁶	43
N					1		
13413	L E INCH	SERIES	8 INCH	SERIES	ı		

8 INCH UPPER CASE LETTERS

SERIES

6⁵

53

53

53

47

47

α

Ь

С

d

е

50

43

43

43

40

40

6 INCH LOWER CASE LETTERS

35

35

35

35

35

23

SERIES

D

42

42

41

42

42

26

N _{UM}	6 INCH	SERIES	8 INCH	SERIES
"U _{MBER}	С	D	С	D
1	12	14	15	20
2	3 ²	40	43	53
3	3 ²	40	43	53
4	35	43	47	57
5	3 ²	40	43	53
6	32	40	43	53
7	3 ²	40	43	5 ³
8	3 ²	40	43	53
9	3 ²	40	43	53
0	34	42	45	5 ⁵

Upper Case To Lower Case Spacing Chart 8-6 Inch Series "C & D"

	72°	
_	3 ⁶ 19 ⁶ 6 ⁰ 22 ⁶ 6 ⁰ 10 ¹ 3 ⁵	(A-C)/2 B
18 ° 8° 6° 5°	New York St	C
		Ī

PANEL SIGN DESIGN TYPE 3

MA-1

9.00 Sq. Ft each 2 Required Design Series D (A-C)/2

30" 2" 22" SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note *5

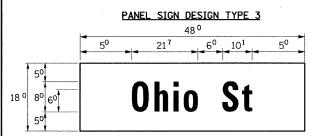
2"±

2" 12"

A B C

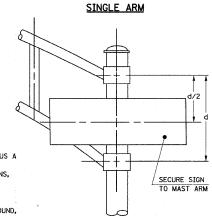
18''

SUPPORTING CHANNELS



MA-2

6.00 Sq. Ft each 2 Required Design Series D



DUAL ARM

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 2374 THROUGH 2377, AS APPLICABLE, PLUS A 2'-6" BY 6'-0" SIGN PANEL 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 HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.

3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0"

4. ALL BORDERS SHALL BE 34" WIDE AND CORNER RADIUS SHALL BE 21/4".

5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

. A.K.T. CORPORATION SCHAUMBURG, IL.

. AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL.

 TUCKER COMPANY, INC. WAUWATOSA, WI.

. WESTERN TRAFFIC CONTROL, INC.

PARTS LISTING:

SIGN CHANNEL SIGN SCREWS BRACKETS

PART 3HPN053 (MED. CHANNEL) 1/4" X 14 X 1" H.W.H. #3 SELF TAPPING WITH NEOPREAM WASHER PART #HPN034 (UNIVERSAL)

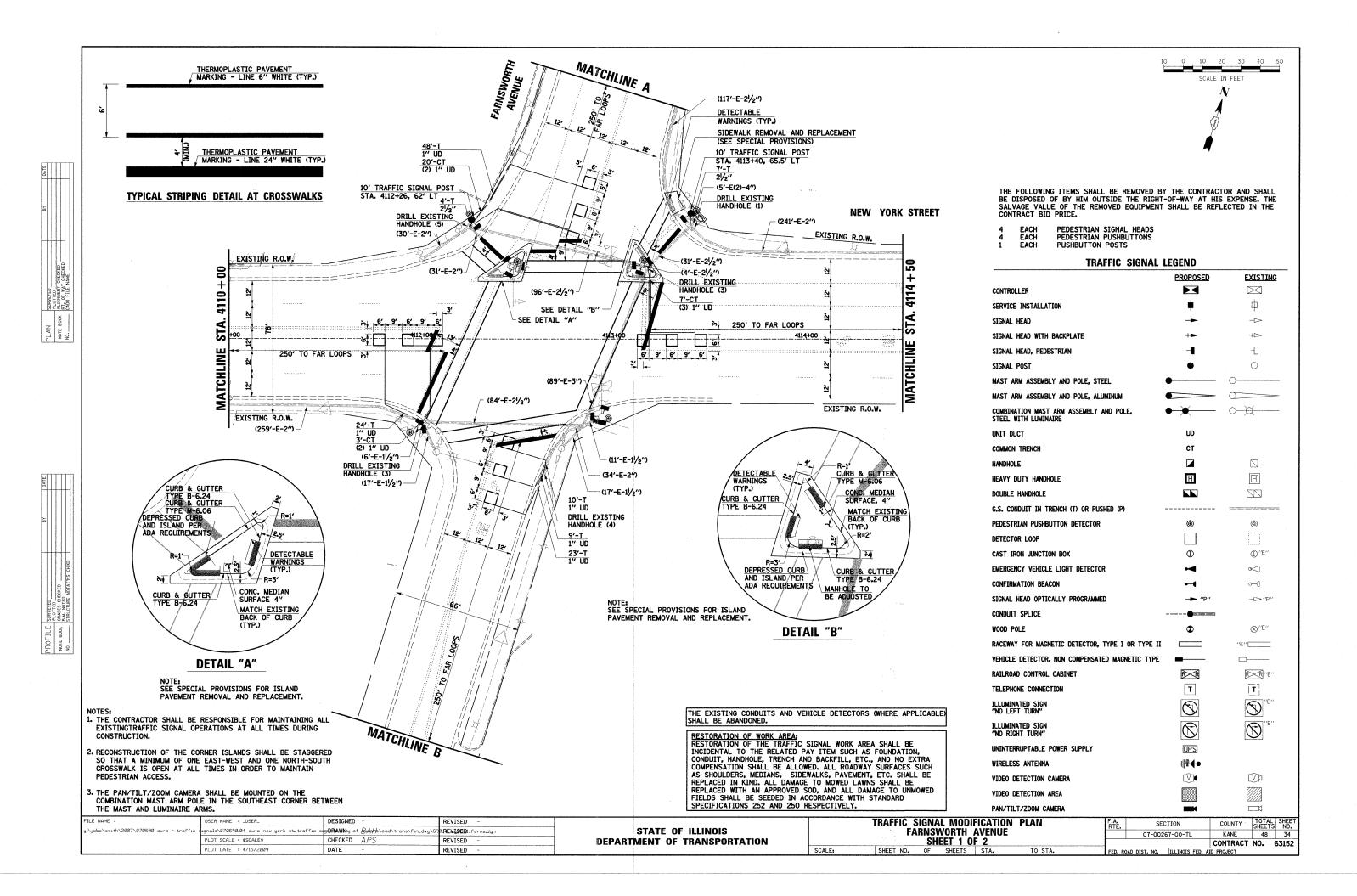
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

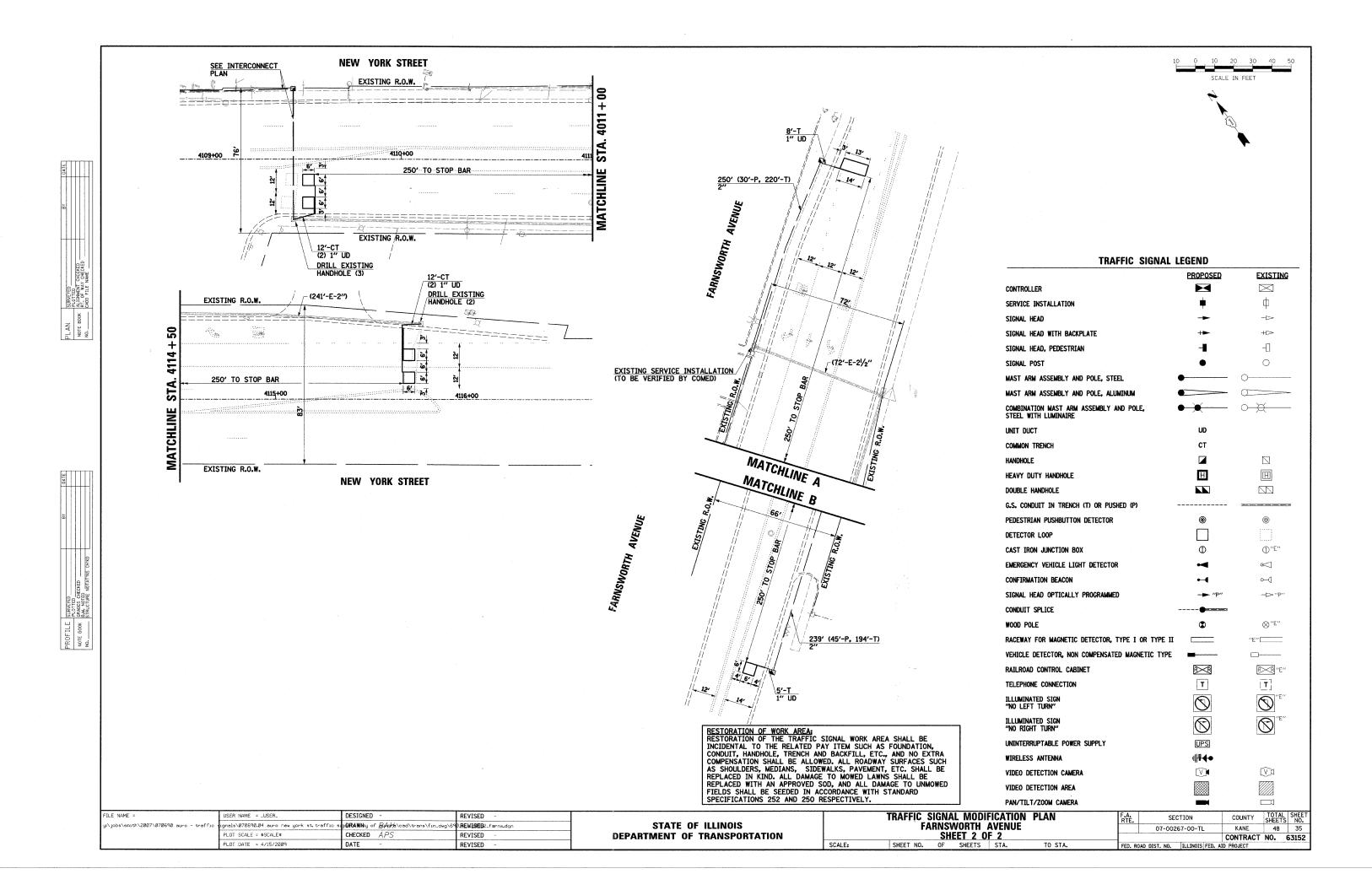
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

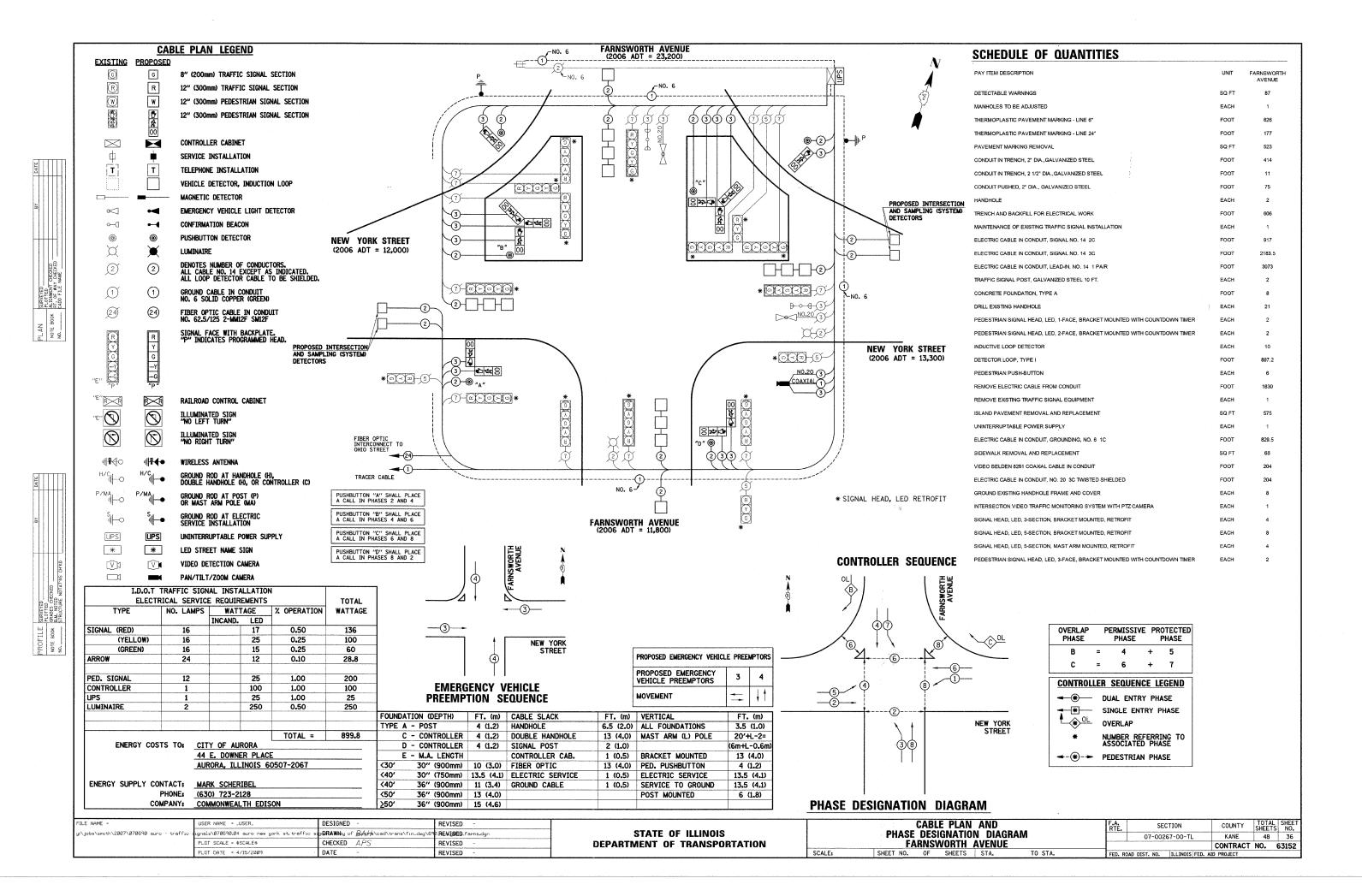
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#\Jobs\smith\2007\070690 auro - traffic s	ignals\070690.04 auro new york st.traffic si	g nDRAWN ty of	f <i>BuAdH</i> a\cad\trans\fin_dwg\69	REMESED of	nio.dgn	l
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	PLOT DATE = 4/15/2009	DATE	-	REVISED	-	

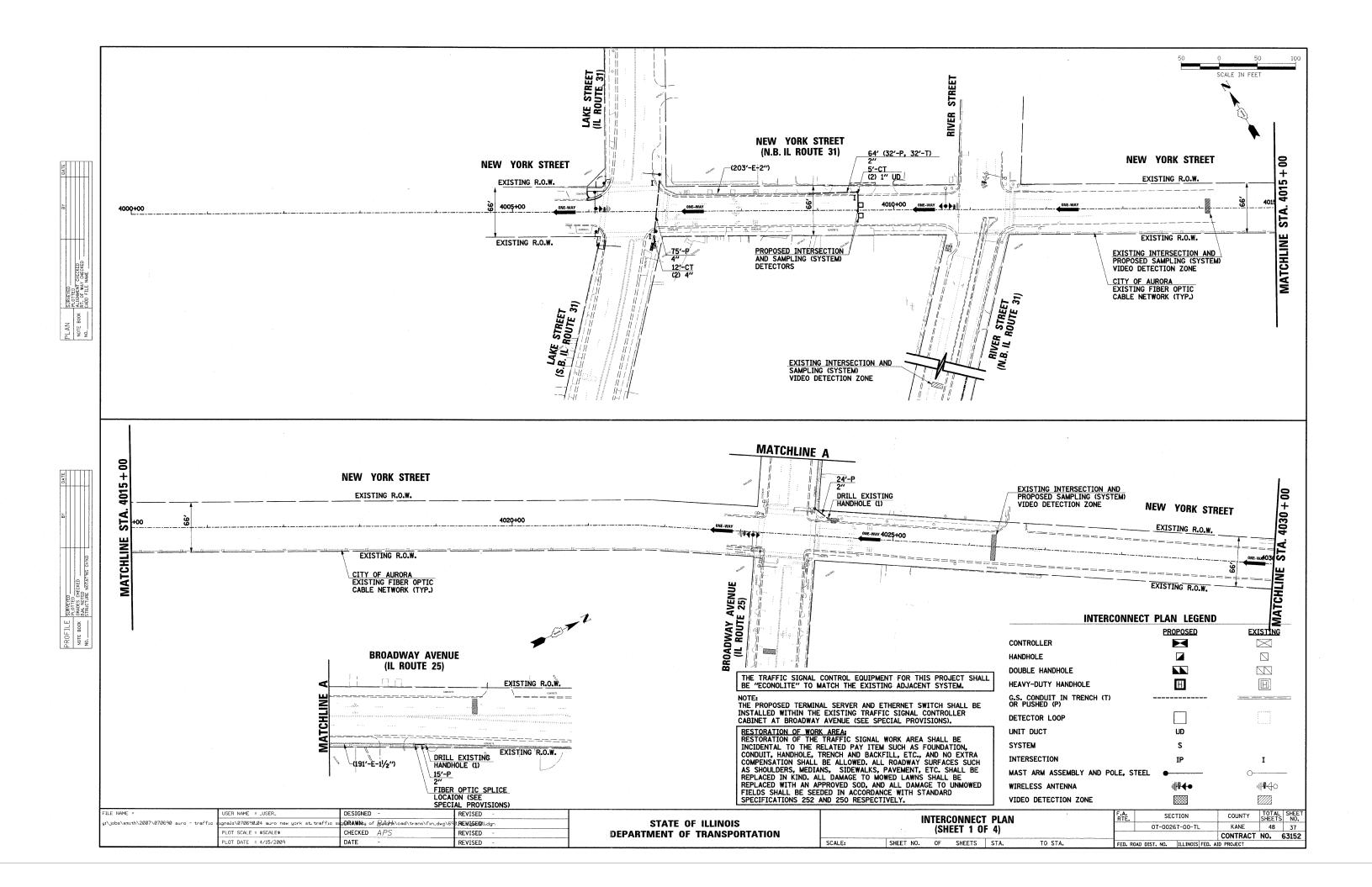
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

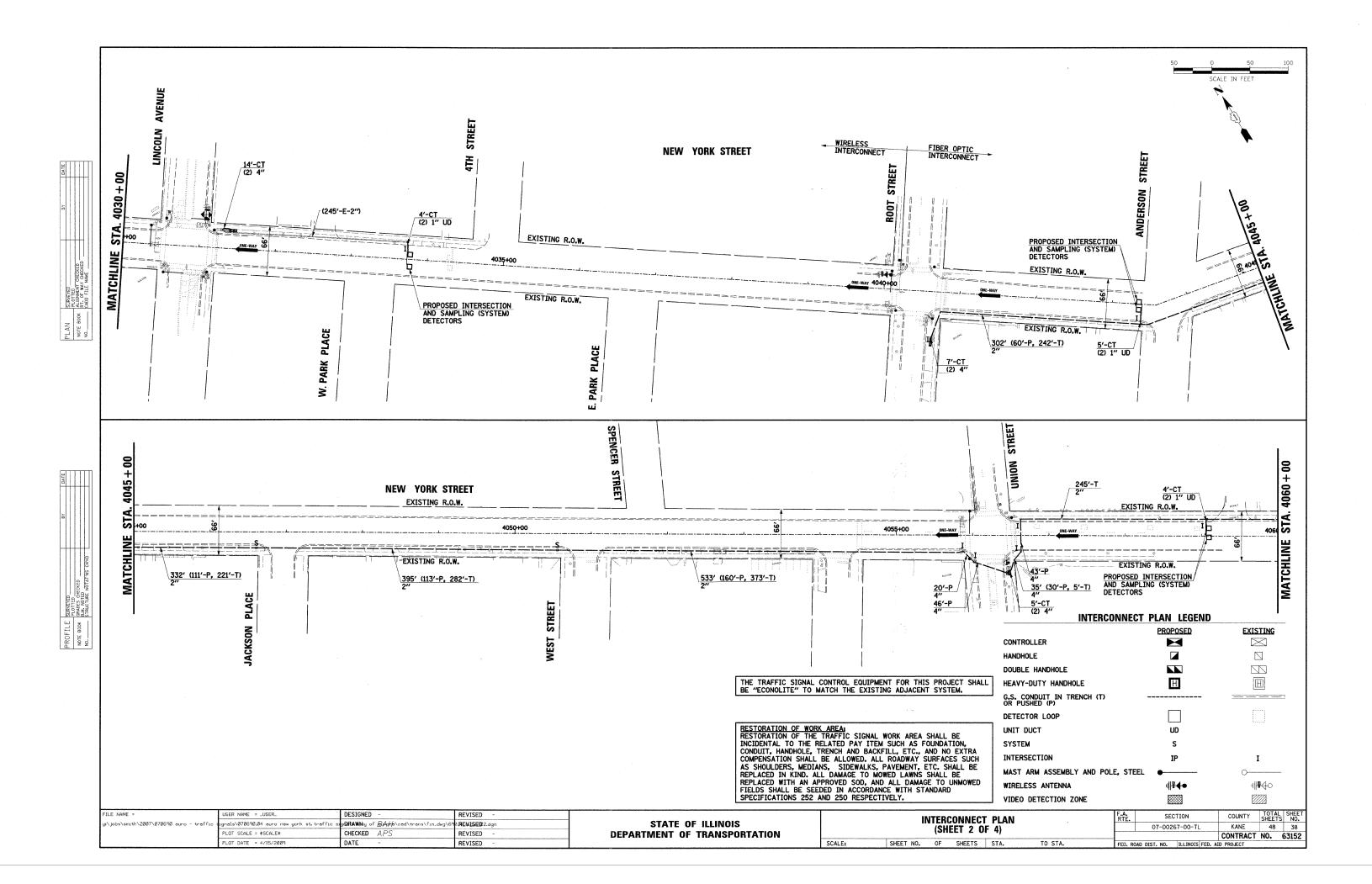
MAST ARM MOUNTED STREET NAME SIGNS			SECTION	COUNTY	TOTAL	SHEET NO.
			07-00267-00-TL	KANE	48	33
OHIO STREET				CONTRACT	NO.	63152
SHEET NO. OF SHEETS ST	. TO STA.	FED. RO	DAD DIST. NO. ILLINOIS FED. AI	D PROJECT		

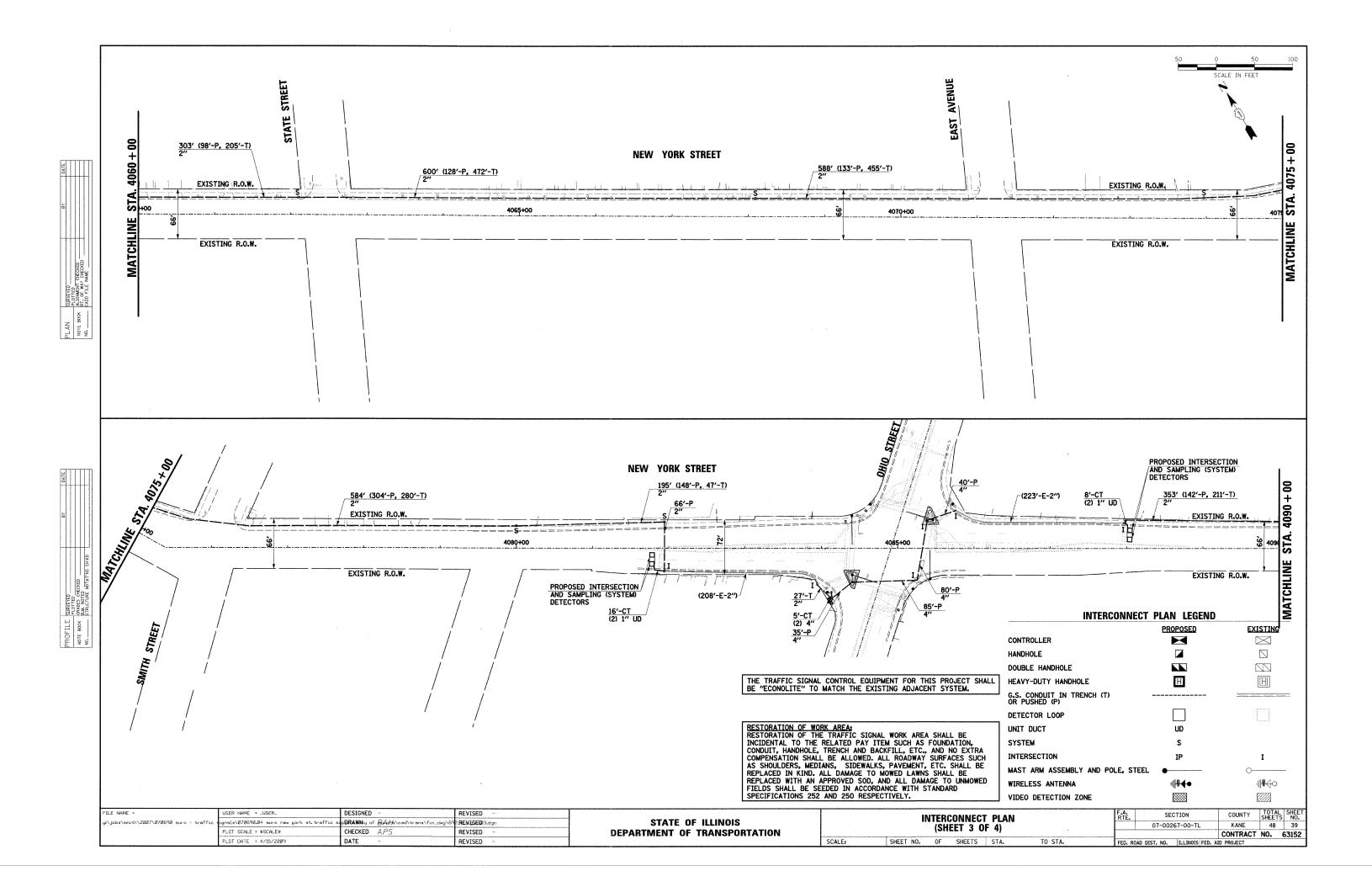


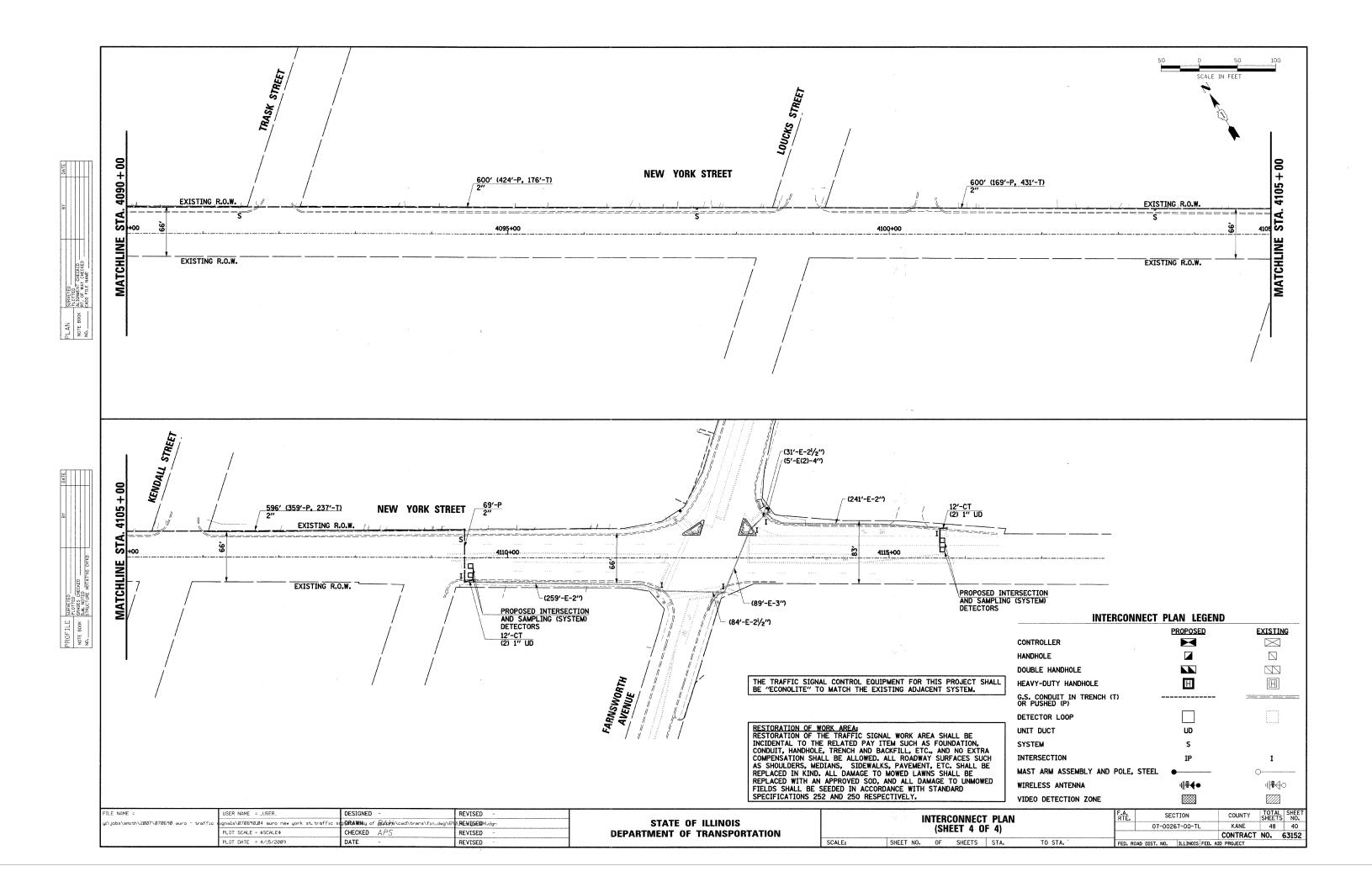


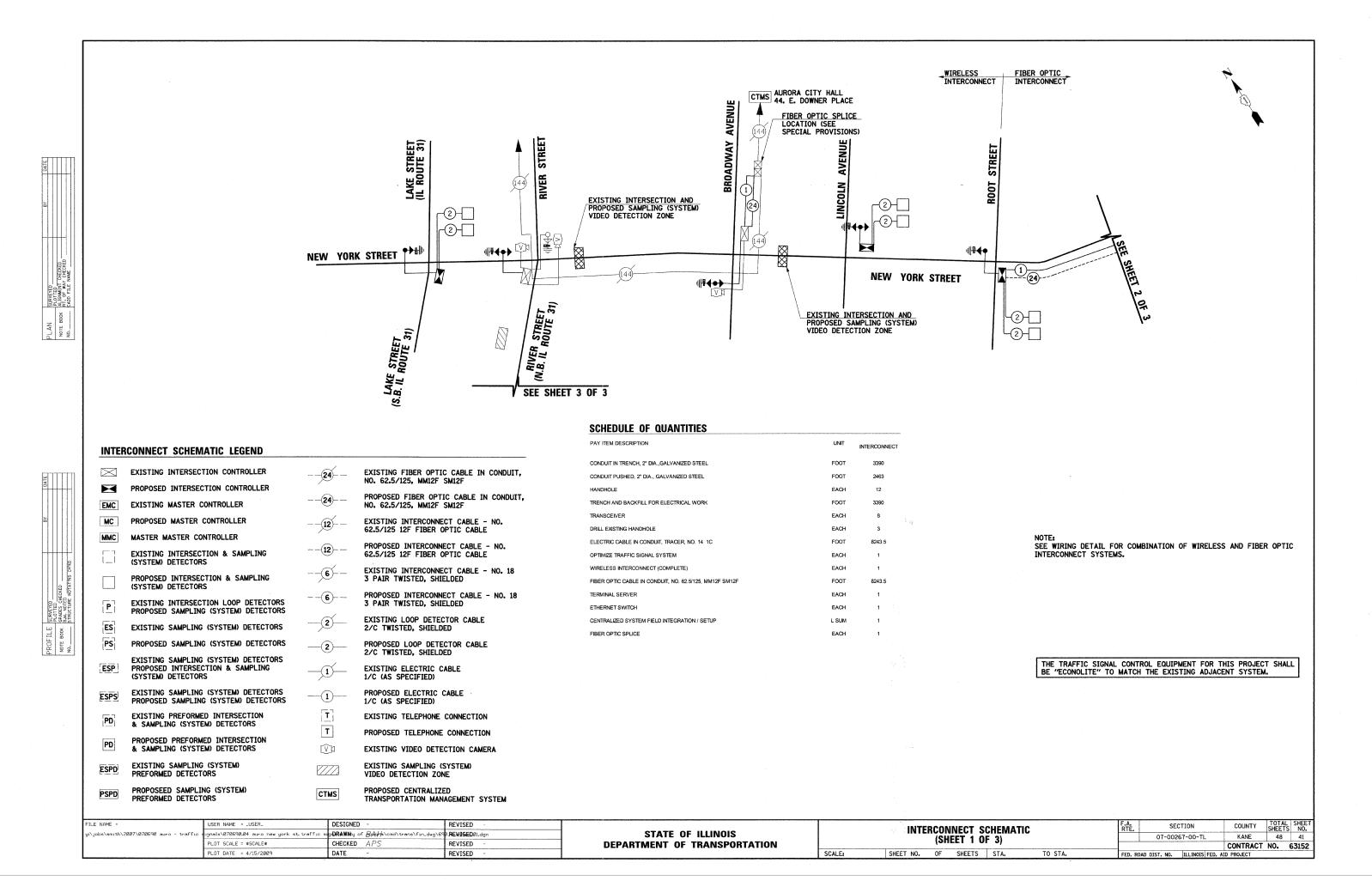


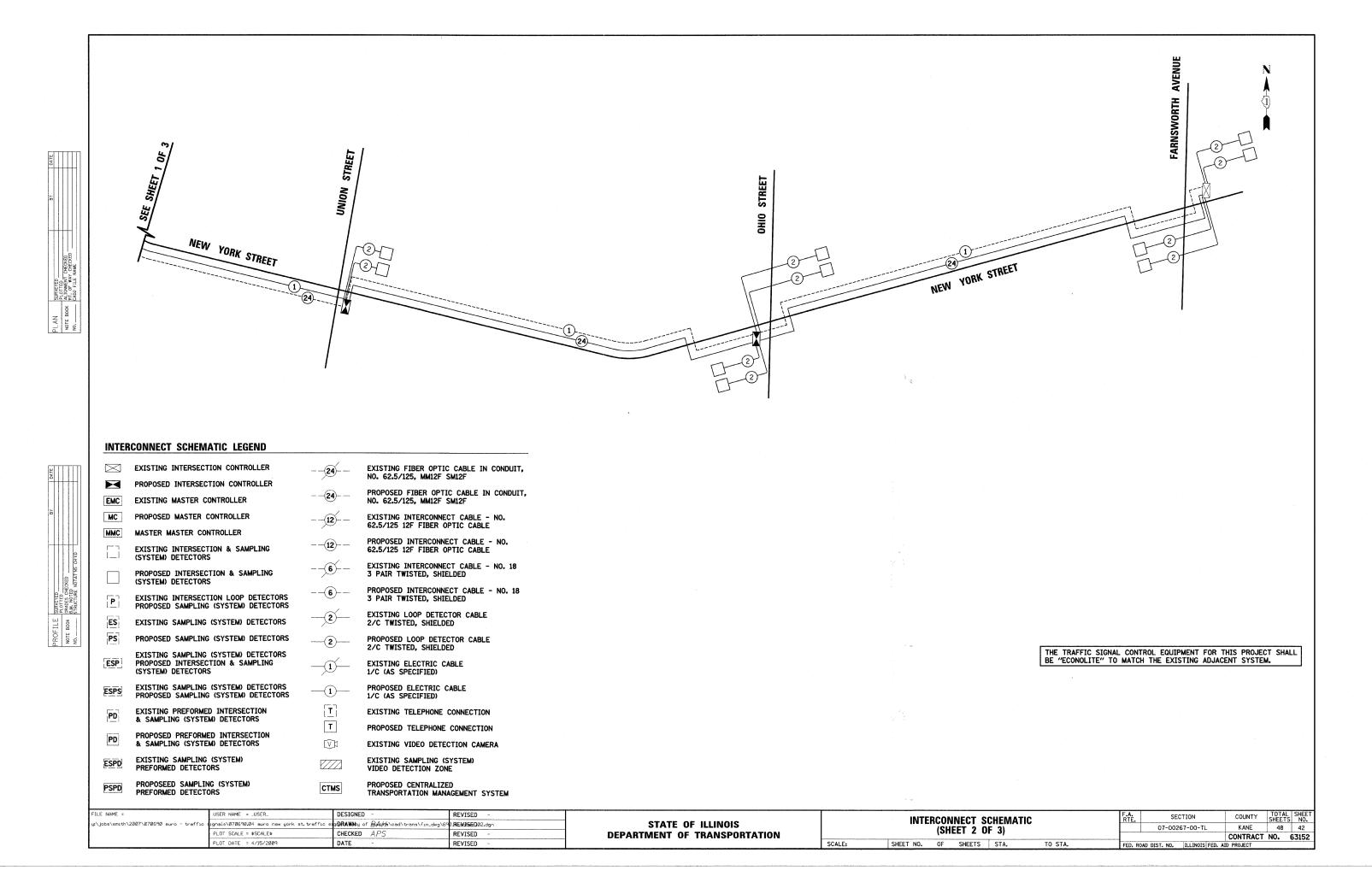


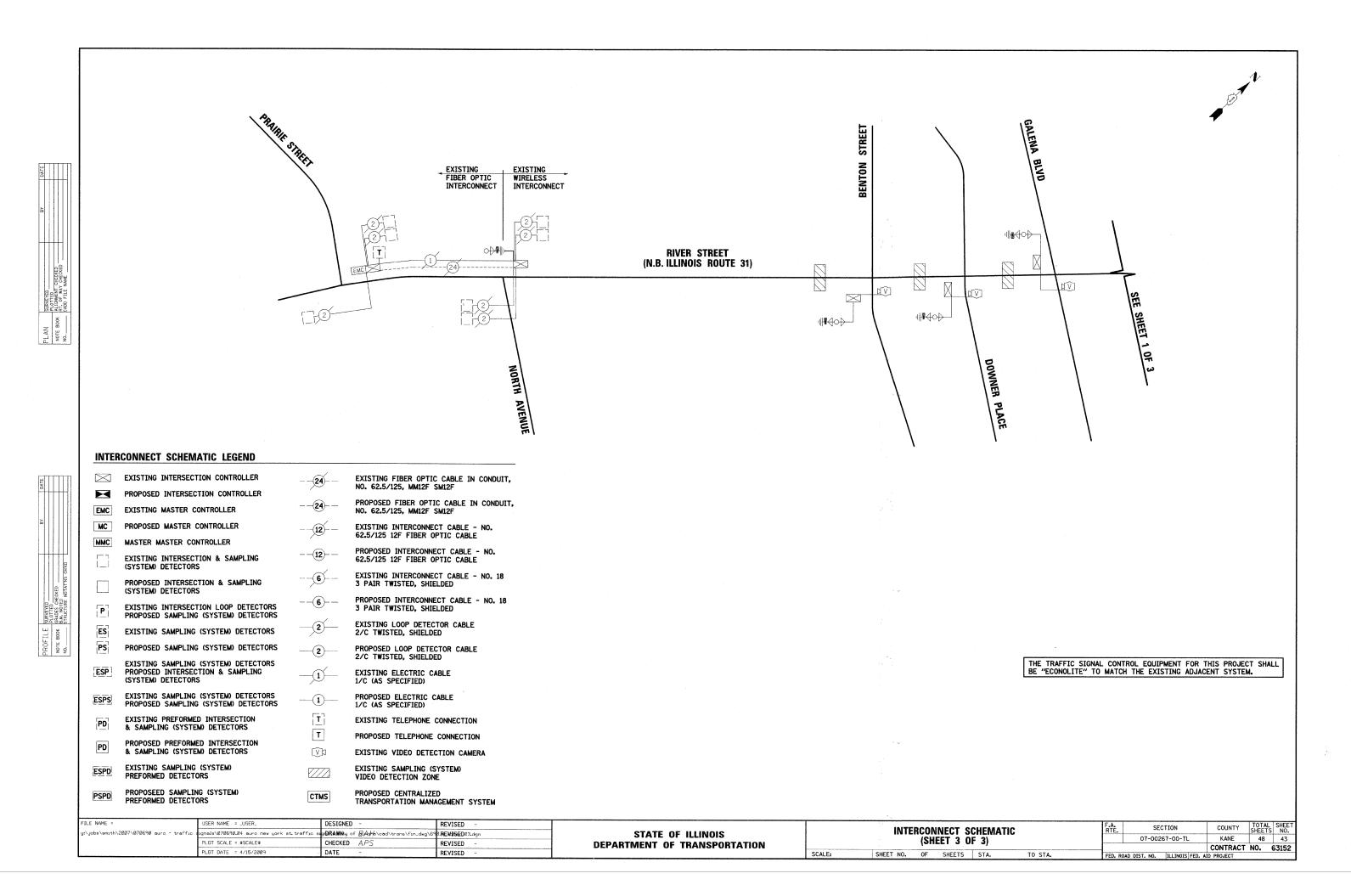


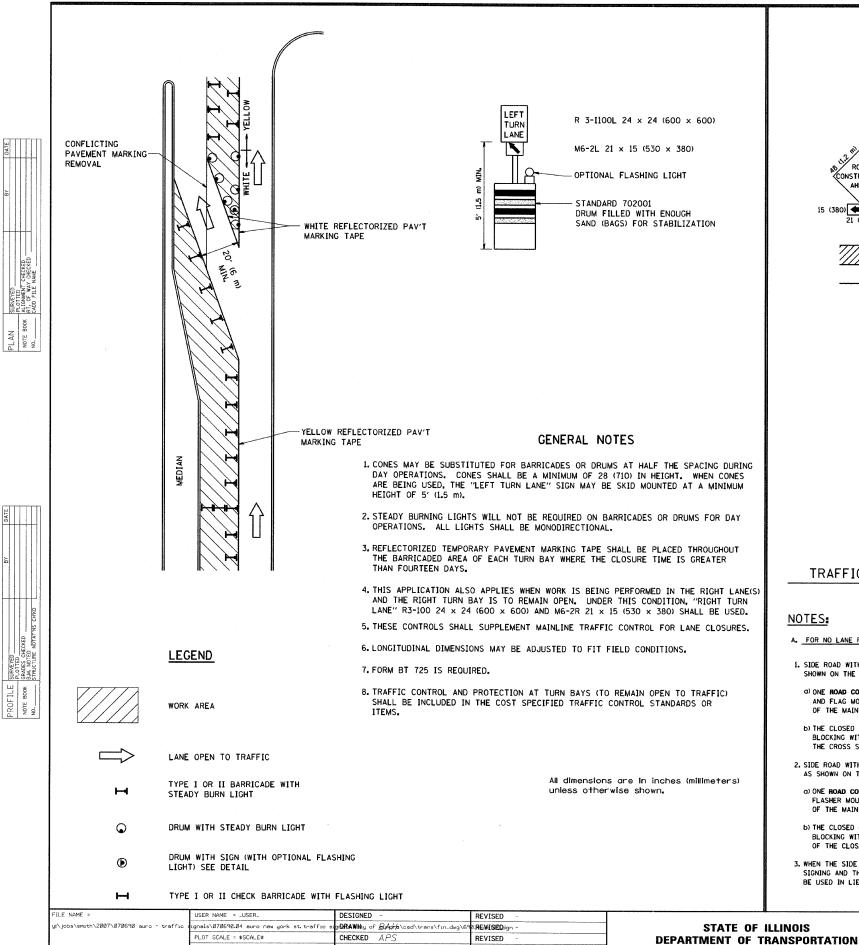






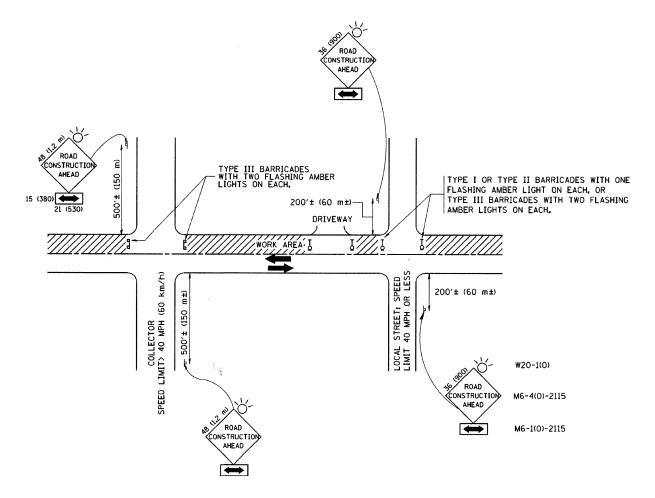






DATE

REVISED



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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 ENGINEERS
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
- 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 (M6-4).

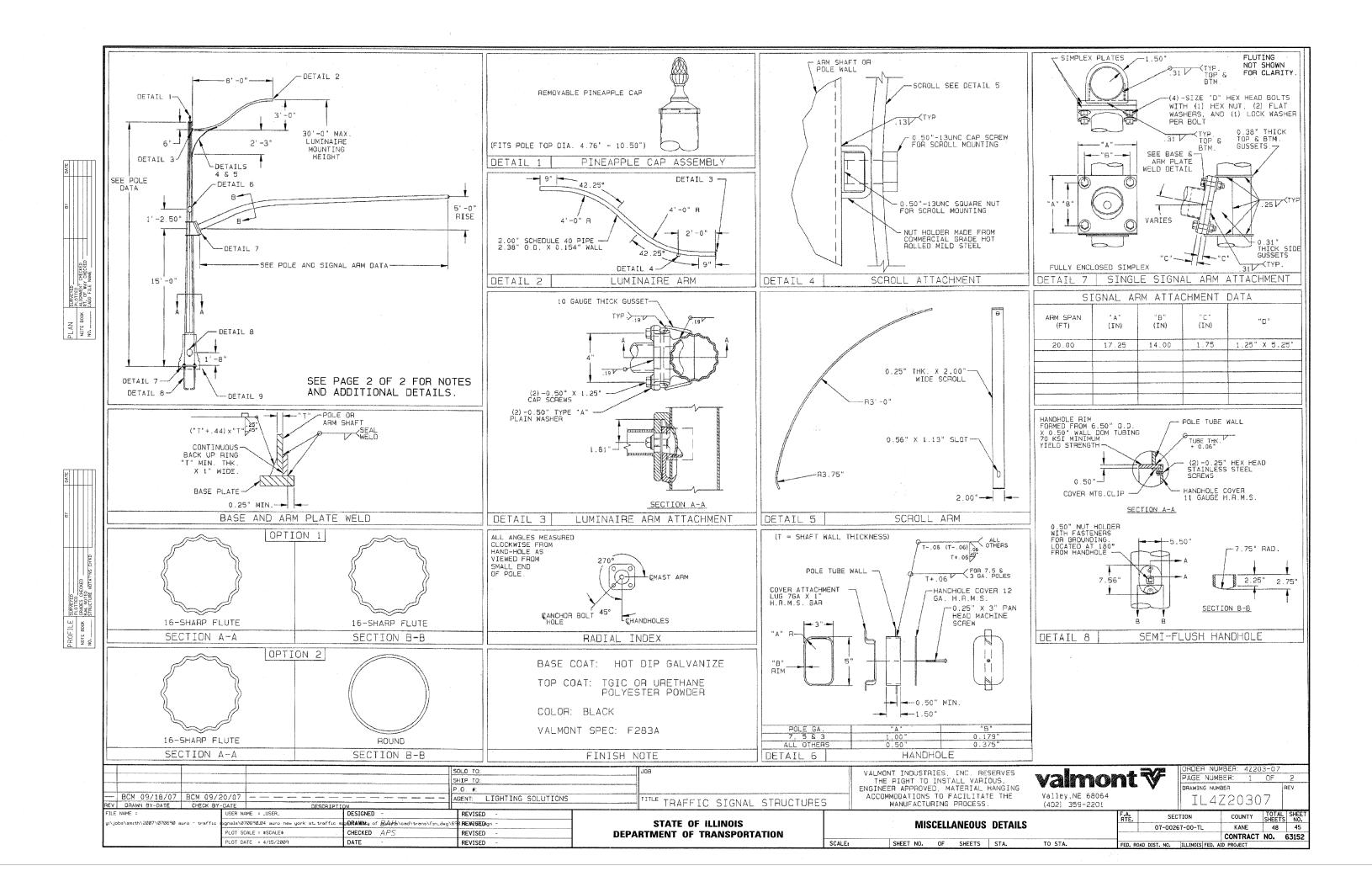
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE 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 SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

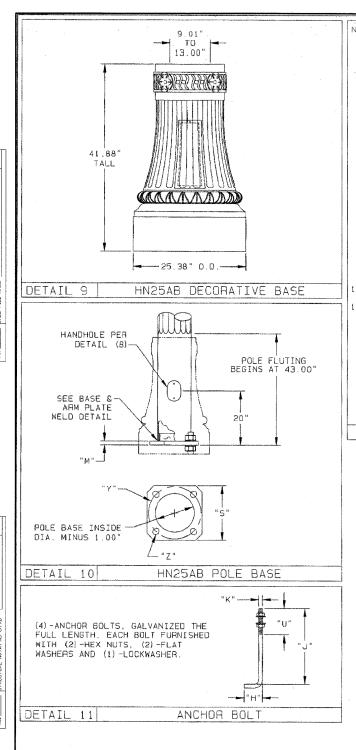
All dimensions are in millimeters (inches) inless otherwise shown.

SECTION COUNTY 07-00267-00-TL KANE

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) AND FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
SHEET NO. OF SHEETS STA. TO STA.

CONTRACT NO. 63152 FED. ROAD DIST. NO. THE INOIS FED. AID PROJECT





1. POLE AND ARM SHAFTS 13.00" AND SMALLER-CONFORMS TO ASTM DESIGNATION: A595 GR. A WITH 55,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT. POLE AND ARM SHAFTS LARGER THAN 13.00"—CONFORMS TO ASTM DESIGNATION: M-223 A572 GR. 65 WITH A 65,000 P.S.I. MINIMUM YIELD STRENGTH. LINEAR TAPER-0.14"/FT.

2. BASE PLATE AND SIMPLEX PLATES-CONFORM TO AASHTO M-183 (ASTM: A36).

3. ANCHOR BOLTS-ALL STRUCTURES: ASTM F1554 GR. 55 55,000 P.S.I. MINIMUM YIELD STRENGTH. (AASHTO M314) 4. TRAFFIT SIGNAL ARM END CAP SECUAGED IN PLACE WITH 3 STAINLESS STEEL SET SCREWS. (TRAFFIC SIGNAL ARM END CAP PROVIDED WITH (2) ADDITIONAL STAINLESS STEEL HEX BOLTS).

5. ALL NON-STAINLESS THREADED FASTENERS TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).

6. SIMPLEX CONNECTING BOLTS-ASTM DESIGNATION: A325 (M164) GALVANIZED TO ASTM DESIGNATION: A153 LUBBRICATE THREADS IN FIELD IF NECESSARY BEFORE INSTALLATION.

7. ALL VEHICULAR AND/OR PEDESTRIAN SIGNAL LIGHTS AND NECESSARY HARDWARE FOR ATTACHMENT TO BE FIELD LOCATED AND FURNISHED BY OTHERS.

8. POLES AND ARMS TO BE GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO M19). ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO M19). ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO M19). ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO M19). ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A123 (AASHTO M19). ACCESSORIES TO BE HOT DIP GALVANIZED TO ASTM DESIGNATION: A153 (AASHTO M232).

9. ACCESS HOLES IN AHMS AT SIGNAL TO BE FIELD DRILLED BY CONTRACTOR—LOCATED AS SHOWN IN PLANS.

10. LUMINAIRE ARM SHAFT CONFORMS TO 2" SCHEDULE 40 PIPE W/ 36,000 PSI MIN. YIELD STRENGTH.

11. SHAFT GAUGE OR THICKNESS ARE AS FOLLOWS: 11 GA. = 0.1196". 7 GA. = 0.1793", 5 GA. = 0.2092", 3 GA. = 0.2391", AND 2" SCHED. 40 PIPE = 0.154".

COADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR STRU

POLE AND SIGNAL ARM DATA - OPTION 1 POLE BASE ANCHOR BOLT SIGNAL ARM TUBE POLE TUBE IXED GAUGE GAUGE ноок LUMINAIRE ARM SPAN SQUARE "S" DIA. "K" LENGTH BASE DIA. TOP DIA. HOLE / SLOT THK OR THK. (IN) SPAN LENGTH CIACLE LENGTH END DIA. OA THICK (FT) (FT) (FT) (IN) 8.00 9.00 .7 20.00 8.00 5.00 12.50 8.65 27.50 5 17.00 17.00 1.50 1.75 1.50 54.00

			-	POLE	AND	SI	GNAL AR	M D	ATA	- 01	PTIO	N 2			
	POLE	TUBE			PC	DLE BAS	SE .		ANCHOR	BOLT		SIGN	AL ARM	TUBE	MAXIMUM
BASE OIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SGUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	FIXED END DIA. (IN)	GAUGE OR THICK (IN)	SPAN (FT)	LUMINAIRE ARM SPAN (FT)
12.50	8.65	27.50	5	17.00	17.00	1,50	1.75	1.50	54.00	6.00	8.00	8.00	7	20.00	8.00
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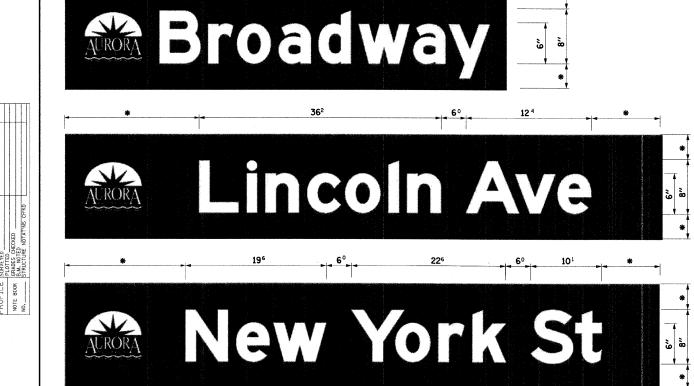
VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS. ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS. **Valnont V**Valley, NE 68064
(402) 359-2201

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PAGE I	NUMBER:	2	OF	2	
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TITLE TRAFFIC SIGNAL STRUCTURES ILE NAME : DESIGNED COUNTY TOTAL SHEET NO.

KANE 48 46 REVISED SECTION \jobs\smith\2007\070690 auro - traff; gnDRAWN.y of ByAgHa\cad\trans\fin_dwg nals\070690.04 auro new york st.traffic REMISED dgn STATE OF ILLINOIS MISCELLANEOUS DETAILS 07-00267-00-TL PLOT SCALE = \$SCALE\$ CHECKED APS CONTRACT NO. 63152 REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 4/15/2009 DATE REVISED SCALE: SHEET NO. OF SHEETS STA. FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT





Lake St

UPPER CASE TO LOWER CASE SPACING CHART 8-6 INCH SERIES "C & D"

SECOND LETTER acde bhiki f																	
		goq		bhikl mnpru		fw		j		s t		v y		x		7	!
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
	AWX	12	14	14	15	12	14	06	10	11	14	06	10	11	1 ²	12	14
	В	14	1 ⁵	20	2 ¹	14	15	11	1 ²	14	15	12	14	12	14	16	17
	CEG	14	15	20	2 ¹	12	14	06	10	12	14	12	14	14	1 ⁵	14	15
F	DOQR	14	15	20	21	14	15	06	10	12	14	12	14	14	1 ⁵	14	15
I R	F	05	06	14	15	O _e	10	O ⁵	O _e	06	10	O _e	10	O _e	10	11,	12
S	HIMN	20	2 ¹	2 ²	24	20	21	14	1 ⁵	16	17	16	17	20	2 ¹	20	2 ¹
Ċ	JU	20	21	20	21	16	17	14	1 ⁵	16	17	1 ⁶	17	16	17	20	2 ¹
E	KL	11	12	16	17	11	12	05	O _e	11	12	11	12	11	1 ²	1 ²	14
T T	Р	12	14	14	15	1 ²	14	O ⁵	O _e	11	12	11	12	12	14	12	14
Ε	S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	1 ²	14
R	Т	11	12	16	17	06	10	O _e	10	11	12	1 ¹	12	11	1 ²	12	14
	V	06	10	14	15	11	12	06	1º	12	14	12	14	12	14	12	14
	Υ	05	06	14	15	06	10	05	06	05	07	05	06	06	1º	11	12
	Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	2 ⁰	2 ¹

E ^K S	6 INCH CASE LE	UPPER TTERS	8 INCH CASE LE	UPPER TTERS	TETERS S	6 INCH CASE LE	LOWER
E _D	SER	IES	SER	IES	$\left \begin{array}{c} T \\ E_{D} \end{array}\right $	SER	IES
r's	С	D	С	D	r's	С	D
A	36	5 ⁰	5 ⁰	6 ⁵	а	35	42
В	32	40	43	5 ³	ь	3 ⁵	42
С	3 ²	40	43	5 ³	С	3 ⁵	41
D	32	40	43	53	d	35	42
E	30	3 ⁵	40	47	е	35	42
F	30	35	40	47	f	23	2 ⁶
G	3 ²	40	43	53	g	35	42
Н	3 ²	40	43	5 ³	h	3 ⁵	42
I	07	07	11	12	ī	11	1 ¹
J	3 ⁰ .	36	40	5 ⁰	j	2 ⁰	2 ²
K	32	41	43	54	k	35	42
L	30	35	40	47	ı	11	1 ¹
М	37	45	5 ¹	61	m	6 ⁰	70
N	32	40	43	53	n	35.	42
0	34	42	45	5 ⁵	0	36	43
Р	3 ²	40	43	5 ³	Р	3 ⁵	42
Q	34	4 ²	45	5 ⁵	q	3 ⁵	42
R	32	40	43	53	r	2 ⁶	32
S	3 ²	40	43	5 ³	S	36	42
T	30	35	40	47	†	27	32
U	32	40	43	53	u	35	42
V	35	44	47	6º	٧	42	47
W	44	5 ²	6º	70	w	5 ⁵	6 ⁴
X	34	40	45	5 ³	×	44	5 ¹
Y	36	5 ⁰	5 ⁰	6 ⁶	У	46	5 ³
Z	3 ²	40	43	5 ³	z	3 ⁶	43

NUL	6 INCH	SERIES	8 INCH	SERIES
MBER	С	D	С	D
1	12	14	1 ⁵	20
2	32	40	43	53
3	3 ²	40	43	53
4	35	43	47	5 ⁷
5	32	40	43	5 ³
6	3 ²	40	43	53
7	3 ² .	40	43	5 ³
8	32	40	43	53
9	3 ²	40	43	53

0 3⁴ 4² 4⁵ 5⁵

LOWER CASE TO LOWER CASE SPACING CHART 6 INCH SERIES "C & D"

							SE	CON	D LI	ETTI	ER							
				d e	b h		f	w		j	s	t	٧	у	,	•		Z
		SERIES	С	D	C	D	С	D	ပ	D	C	D	C	D	ပ	D	O	D
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	I	Imnqu	-			_	_	_	-	-	-	-	_			•	•	•
	R	bfkops	12	14	16	17	11	12	05	06	1 ¹	12	11	12	12	14	1 ²	14
	T	СӨ	1 ²	14	16	17	12	14	0e	10	12	14	12	14	1 ²	14	12	14
	Ļ	r	06	10	1 ²	14	O _e	10	03	O3	05	O _e	05	Oe	O _e	10	06	10
	E	† z	12	14	16	17	12	14	06	1º	1 ¹	12	11	12	1 ²	14	1 ²	14
	T E	v y	1 ¹	12	14	15	11	12	05	O _e	O _e	10	06	10	11	12	11	12
	R	٧	11	12	14	1 ⁵	11	1 ²	05	06	11	12	11	1 ²	11	12	12	14
1		X	12	14	16	17	11	12	05	06	11	12	11	1 ²	11	12	12	14

NUMBER TO NUMBER SPACING CHART 8 INCH SERIES "C & D"

										S	ECC	ND	LE	TTE	R								
				0)	1	l	7	2	-	3	4	4		5	(3		7	8	3	Ś	•
F [SE	RI	ES	C	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
I	0	9		16	17	16	17	14	1 ⁵	12	14	14	1 ⁵	14	15	16	17	12	14	16	17	16	17
R S	1			20	2 ¹	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	2 ¹	20	21
T	2	3	4	14	15	14	15	14	1 ⁵	12	14	12	14	14	15	14	1.5	1 ¹	12	16	17	14	15
N	5			14	15	14	1 ⁵	14	15	11	1 ²	11	12	14	15	14	15	11	12	14	15	14	15
М	6			16	17	14	1 ⁵	14	15	12	1 ⁵	12	14	14	15	14	15	11	12	14	15	14	1 ⁵
B	7			12	14	12	14	14	15	12	15	05	O _e	12	14	14	15	11	12	14	1 ⁵	12	14
Ř	8			16	17	16	1 ⁷	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

LED STREET NAME SIGNS (CLEARVIEW FONT - DESIGN SERIES "D")

* PER MANUFACTURERS SPECIFICATIONS FOR THE CITY OF AURORA.

THESE SIGNS SHALL BE INSTALLED AT THE LOCATIONS INDICATED IN THE PLANS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

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PLOT DATE ≈ 4/15/2009	DATE -	REVISED -	1

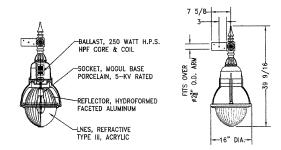
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

								F.A. RTE.	SEC.	TION	COUNTY	TOTAL SHEETS	SHEET NO.
			MIS	CELL	ANEUUS	DETAILS			07-0026	7-00-TL	KANE	48	47
ı								_			CONTRACT	NO.	63152
1	SCALE:	SHEET	NO.	0F	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS FED. A	ID PROJECT		

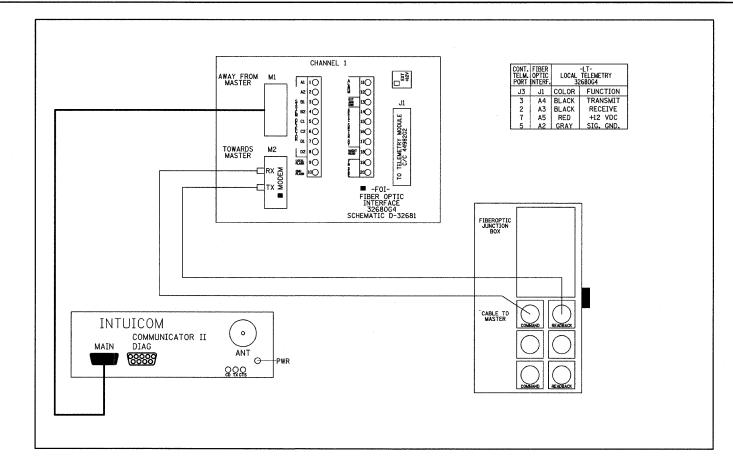




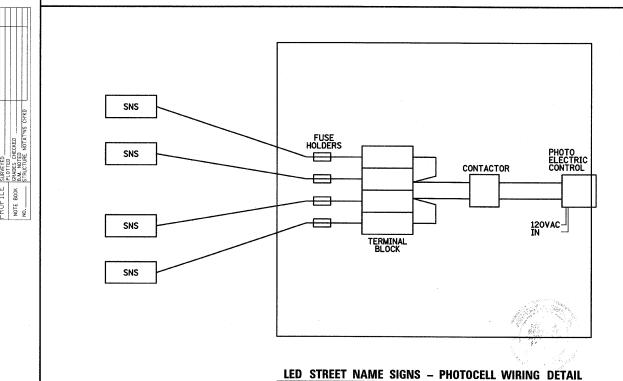
- 1. LUMINAIRE SHALL BE A MODEL AL-32000 LUMINAIRE, ARM END MOUNTED AS MANUFACTURED BY BEACON PRODUCTS OR AN EQUAL APPROVED BY THE CITY OF AURORA.
- 2. ALL CAST ALUMINUM PARTS ARE COPPER FREE ALLOY A356. ALL EXTRUDED ALUMINUM PARTS ARE ALLOY 6051-T6.
- 3. LENS: ACRYLIC PRISMATIC TYPE III ACRYLIC.
- 4. OPTICS: HYDROFORMED FACETED REFLECTOR WITH LIGHT SOURCE: 250 WATT H.P.S., ED-28 LAMP, (BY OTHERS). BALLAST: 250 WATT H.P.S., HPF CORE & COIL.
- 5. VOLTAGE: 240 VOLTS HZ:80.
- 6. FIXTURE SHALL BE NRTL LISTED FOR WET LOCATION.
- 7. FASTNERS: ALL FASTNERS ARE STAINLESS STEEL (TAMPER RESISTANT OPTIONAL, SPANNER HD (SHAKE EYE) SPECIAL TOOL REQUIRED, NOT PROVIDED).
- 8. FINISH: BEACOTE III POLYESTHER POWDER COAT ELECTROSTATICALLY APPLIED AND THERMOCURED. COLOR (SPECIFY).

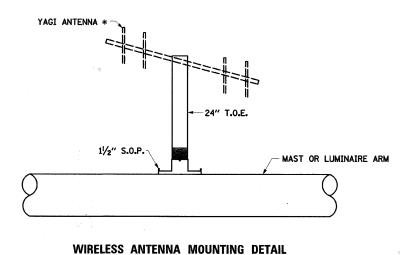


AL-32000 LUMINAIRE, ARM END MOUNTED



WIRING DETAIL FOR COMBINATION OF WIRELESS AND FIBER OPTIC INTERCONNECT SYSTEMS





* OR EQUAL APPROVED BY THE CITY OF AURORA.



FILE NAME =	USER NAME = _USER	DESIGNED -	REVISED -				F.A.	SECTION	COUNTY	TOTAL SHEET
y:\jobs\smith\2007\070690 auro - traffic :		gnDRAWNty of BuAdHa\cad\trans\fin_dwg\69	P.REWISEDign -	STATE OF ILLINOIS	MISCELLANEOUS DET	NILS	RIE.	07-00267-00-TL	KANE	SHEETS NO. 1
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION				0. 0020. 00 12	CONTRACT	Γ NO. 63152
	PLOT DATE = 4/15/2009	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIS	ST. NO. ILLINOIS FED. A		