COVER SHEET

SUMMARY OF QUANTITIES

STANDARD TRAFFIC SIGNAL DESIGN STANDARDS

TRAFFIC SIGNAL MODIFICATION PLAN - CONSTITUTION DRIVE

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - CONSTITUTION DRIVE

TRAFFIC SIGNAL MODIFICATION PLAN - WAL-MART ENTRANCE

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - WAL-MART ENTRANCE

TRAFFIC SIGNAL MODIFICATION PLAN - REIMERS DRIVE

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - REIMERS DRIVE

TRAFFIC SIGNAL MODIFICATION PLAN - EDGELAWN DRIVE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - EDGELAWN DRIVE

TRAFFIC SIGNAL MODIFICATION PLAN - RANDALL ROAD

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - RANDALL ROAD TRAFFIC SIGNAL MODIFICATION PLAN - COMMONWEALTH DRIVE

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - COMMONWEALTH DRIVE

TRAFFIC SIGNAL MODIFICATION PLAN - ELMWOOD DRIVE CABLE PLAN AND PHASE DESIGNATION DIAGRAM - ELMWOOD DRIVE

TRAFFIC SIGNAL MODIFICATION PLAN - LANCASTER AVENUE

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - LANCASTER AVENUE TRAFFIC SIGNAL MODIFICATION PLAN - HIGHLAND AVENUE

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - HIGHLAND AVENUE

EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED - VIEW STREET

TRAFFIC SIGNAL MODIFICATION PLAN - VIEW STREET

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - VIEW STREET

MAST ARM MOUNTED STREET NAME SIGNS - VIEW STREET TRAFFIC SIGNAL MODIFICATION PLAN - LOCUST STREET

CABLE PLAN AND PHASE DESIGNATION DIAGRAM - LOCUST STREET

32-37 INTERCONNECT PLAN

38-39 INTERCONNECT SCHEMATIC

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

# **PROPOSED PLANS FOR** TRAFFIC SIGNAL INTERCONNECT

**CONGESTION MITIGATION AIR QUALITY ROUTE: GALENA BOULEVARD** FROM ORCHARD ROAD TO LOCUST STREET SECTION 05-00257-00-TL PROJECT NO. CMM-8003(926) KANE COUNTY

JOB NO.: C-91-143-08

# **HIGHWAY STANDARDS**

424001-05 CURB RAMPS FOR SIDEWALKS

URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601-06

URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 701606-06

701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION

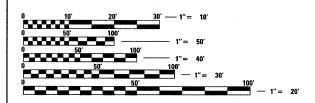
LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 857001-01

877001-04

878001-07

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.

NEW YORK ST. PRAIRIE STREET **AURORA END PROJECT** (LOCUST STREET)

SCALE: N.T.S

**EXISTING ADT (2006)** = 12,800 - 14,900 POSTED SPEED = 30 M.P.H.

PROJECT GROSS LENGTH = 13,450 FEET = 2.55 MILES PROJECT NET LENGTH = 13,450 FEET = 2.55 MILES

ANTHONY P. SIMMONS, P.E. NO. 962-058414

THIS IMPROVEMENT IS LOCATED

IN THE CITY OF AURORA

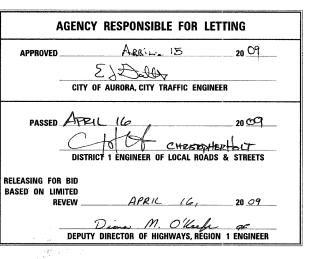
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SECTION

05-00257-00-TL

COUNTY

KANE 39 1 CONTRACT NO. 63105



LOCATION OF SECTION INDICATED THUS: - --



**CONTRACT NO: 63105** 

701901-01 TRAFFIC CONTROL DEVICES 720016-02 MAST ARM MOUNTED STREET NAME SIGNS 814001-02 HANDHOLES UNINTERRUPTABLE POWER SUPPLY (UPS) 862001-01 TRAFFIC SIGNAL GROUNDING & BONDING 873001-02 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' CONCRETE FOUNDATION DETAILS TRAFFIC SIGNAL MOUNTING DETAILS 880006-01 DETECTOR LOOP INSTALLATIONS 886001-01 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

<del>=</del>(56)= NORTH **BEGIN PROJECT** (CONSTITUTION DRIVE)

LOCATION MAP

EXPIRES: 11/30/09 SEC GROUP, INC.

S	UM	MΑ	RY	0F	QU	AN	TI	TI	E

CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTITUTION DRIVE	WAL-MART ENTRANCE	REIMERS DRIVE	EDGELAWN DRIVE	RANDALL ROAD	COMMONWEALTH DRIVE	ELMWOOD DRIVE	LANCASTER AVENUE	HIGHLAND AVENUE	VIEW STREET	LOCUST STREET	INTERCONNECT
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	117	117											
42400800	DETECTABLE WARNINGS	SQ FT	16	16											
44000600	SIDEWALK REMOVAL	SQ FT	93	93											
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3												
67100100	MOBILIZATION	L SUM	1												
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1												
72000100	SIGN PANEL - TYPE 1	SQ FT	28.5										28.5		
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	374	223			151		<b> </b>				20.0		
81000600	CONDUIT IN TRENCH, 2" DIA.,GALVANIZED STEEL	FOOT	2834	220	<b></b>		131					ļ		<b> </b>	2834
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT													2034
81001000			58										58		
	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	65										65		
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1582												1582
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	156										156		
81400100	HANDHOLE	EACH	10												10
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	2965				8						123		2834
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	11	1	1	1	1	1	1	1	1	1	1	1	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	11												11
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	6338.5	905.5	359	673	549	336	455	474.5	461	1019	544.5	562	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	9667	947.5	380	701	577	413	697.5	1058.5	1030	1643.5	1145	1074	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1589.5										1589.5		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	850.5										850.5		-
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5371.5	766.5			1520	767		786		719.5		812.5	
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1							1			1		
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3										3		
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2										2		
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1										1		
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1										1		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		<del> </del>			<b>_</b>							
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER												16		
		FOOT	43.5										43.5		
87900200	DRILL EXISTING HANDHOLE	EACH	30										20		10
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5										5		
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3										3		
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1										1		
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3										3		
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	48	4	2	4	4	2	6	4	6	8		8	
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10	1	1			1		2	1		4		
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8										8		
88500100	INDUCTIVE LOOP DETECTOR	EACH	14	2			4	2		2		2		2	
88600100	DETECTOR LOOP, TYPE I	FOOT	138				138								
	PEDESTRIAN PUSH-BUTTON	EACH	45	5	3	4	4	3	4	4	4	6	4	4	
88800100		1													11
88800100 89502205	MODIFY EXISTING CONTROLLER (SPECIAL)	EACH	11	i	1							1			
	MODIFY EXISTING CONTROLLER (SPECIAL) REMOVE ELECTRIC CABLE FROM CONDUIT	EACH FOOT	24296.5	1088	846	1048	988	792	1394.5	2176	2040	3231	1583 5	1559	7550.5
89502205 89502300				1088	846	1048	988	792	1394.5	2176	2040	3231	1583.5	1559	7550.5

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y:\jobs\smith\2007\070690 AURO - Traffic s	ignals\070690.01 AURO Galena Blvd Traffic S	g <b>DRAWN</b> d\TrafisA∮\$h_dwg\690_1_sum01.dgn	REVISĘD ~	STATE OF ILLINOIS	SUMMARY OF QUANTITIES	KIE.	5-00257-00-TL	KANE	SHEETS	NO.
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	(SHEET 1 OF 2)				L NO 6	7105
	PLOT DATE = 4/15/2009	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST.		CONTRACT D PROJECT	NO. 6	2102

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PROFILE	SURVEYED		
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CODE NUMBER	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTITUTION DRIVE	WAL-MART ENTRANCE	REIMERS DRIVE	EDGELAWN DRIVE	RANDALL ROAD	COMMONWEALTH DRIVE	ELMWOOD DRIVE	LANCASTER AVENUE	HIGHLAND AVENUE	VIEW STREET	LOCUST STREET	INTERCONNECT
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8										8		
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	15305												15305
X0324007	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1												1
X0324232	PAINT NEW MASTARM POLE, UNDER 40 FEET	EACH	4										4		
X8510300	PAINT TRAFFIC SIGNAL POST	EACH	4										4		
X8620020	UNINTERRUPTABLE POWER SUPPLY	EACH	11	1	1	1	1	1	1	1	1	1	1	1	
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	15305					<u> </u>							15305
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	3198.5	506.5	419.5	455	338.5	269.5	293.5	309.5	247.5		359		
X8950115	RELOCATE LIGHT DETECTOR	EACH	2										2		
XX006923	GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	60	10	8	7	6	4	6	6	6		7		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1												1
XX007987	SIGNAL HEAD, LED, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	42	3	6	1	6	3	7	5	7	4			
XX001988	SIGNAL HEAD, LED, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	15	3	2	2		1	2	1	2	2			
XX001989	SIGNAL HEAD, LED, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	27	5	4	1	4	5	1	3	1	3			
XX001990	SIGNAL HEAD, LED, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	24	5	4	2	3	2	1	3	1	3			
XX007991	CENTRALIZED TRANSPORTATION MANAGEMENT SYSTEM	L SUM	1												1
XX001952	TERMINAL SERVER	EACH	1							1 m					1
XX001992	ETHERNET SWITCH	EACH	1												1
X X 0 0 1993	CENTRALIZED SYSTEM FIELD INTEGRATION / SETUP	L SUM	1												1
XX <i>00 1994</i>	FIBER OPTIC SPLICE	EACH	1												1
20076600	TRAINEES	HOUR	500												
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SUMMARY OF QUANTITIES

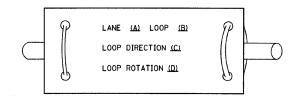
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y:\jobs\smith\2007\070690 auro - traffic s	gnals\070690.01 auro galena blvd traffic sig	n <b>BRAWN</b> I\transAn/nLdwg\690_1_sum02.dgn	REVISED	STATE OF ILLINOIS		20				IANTITIES		RIE.	05-00257-00-TL	KANE	39 3
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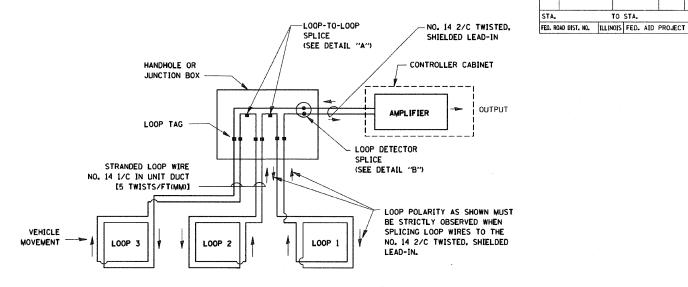
#### LOOP DETECTOR NOTES

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

### LOOP LEAD-IN CABLE TAG

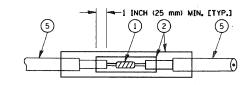


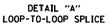
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP \*1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

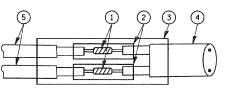


#### DETECTOR LOOP WIRING SCHEMATIC

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







DETAIL "B" LOOP-TO-CONTROLLER SPLICE

#### LOOP DETECTOR SPLICE

- 1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 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.

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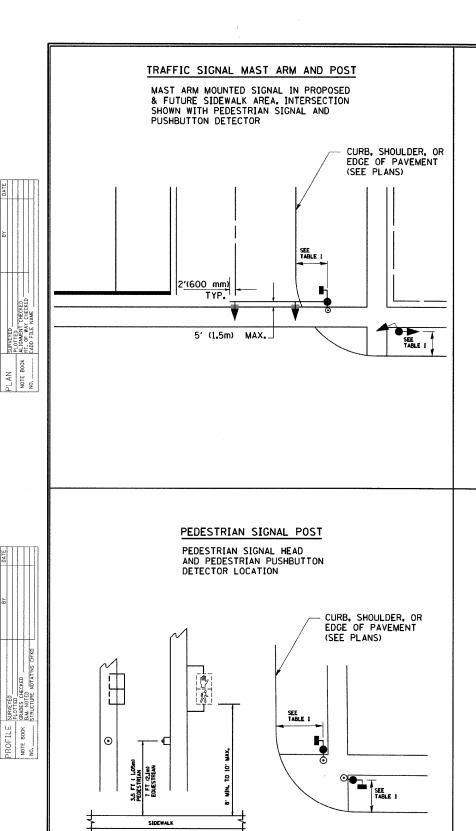
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

RTE. SECTION

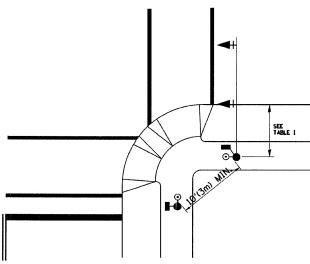
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### PEDESTRIAN SIGNAL PUSHBUTTON



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.

# NOTES:

F.A. SECTION COUNTY SHEETS NO.

STA. TO STA.

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

1. 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)

# 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 <sub>*</sub> 2m)	SHOULDER WIDTH + 2FT(0.6m), 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

NAME DATE
BUREAU OF TRAFFIC 1/01/02

BUREAU OF TRAFFIC 1/01/02

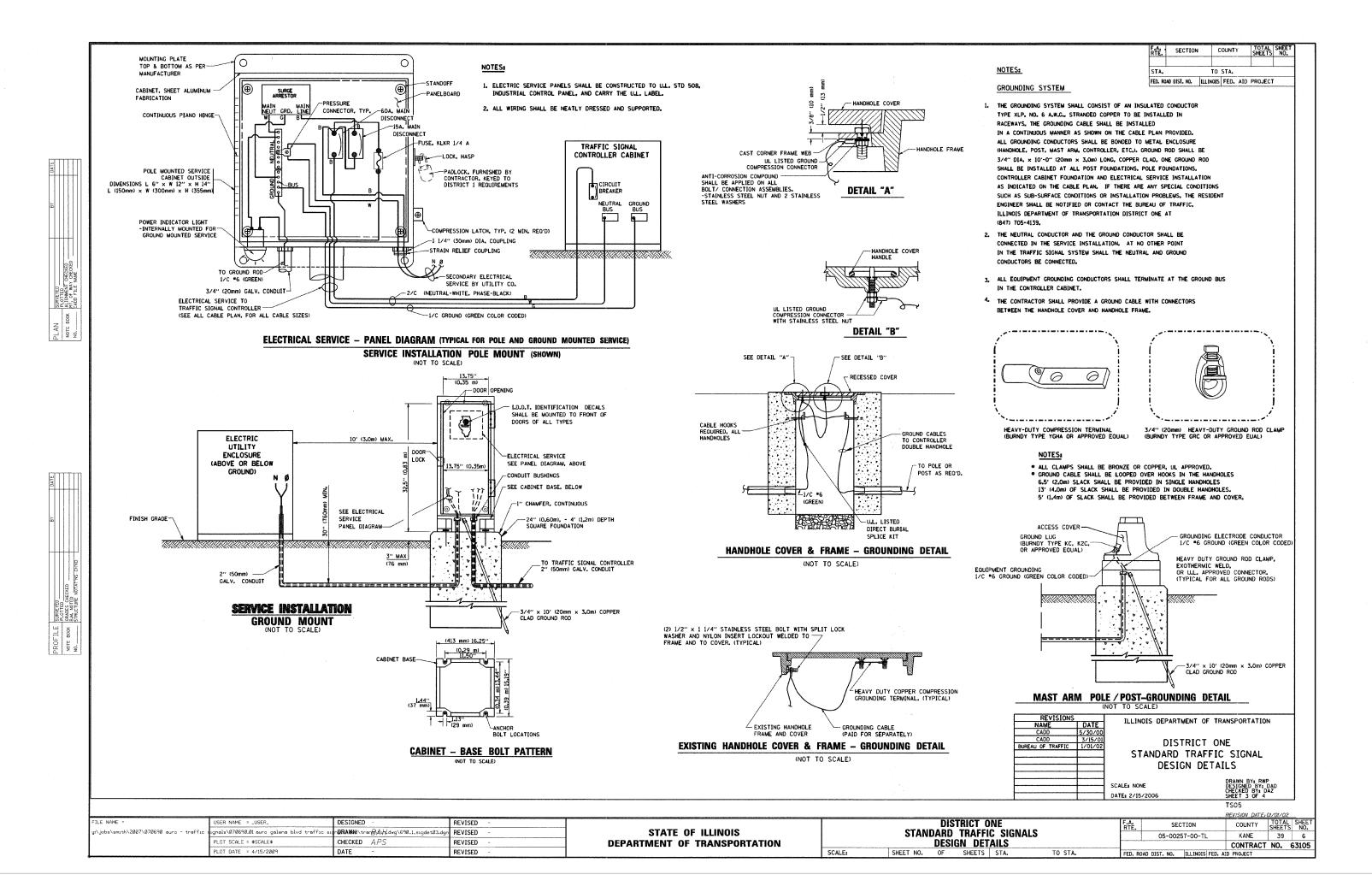
DISTRICT 1

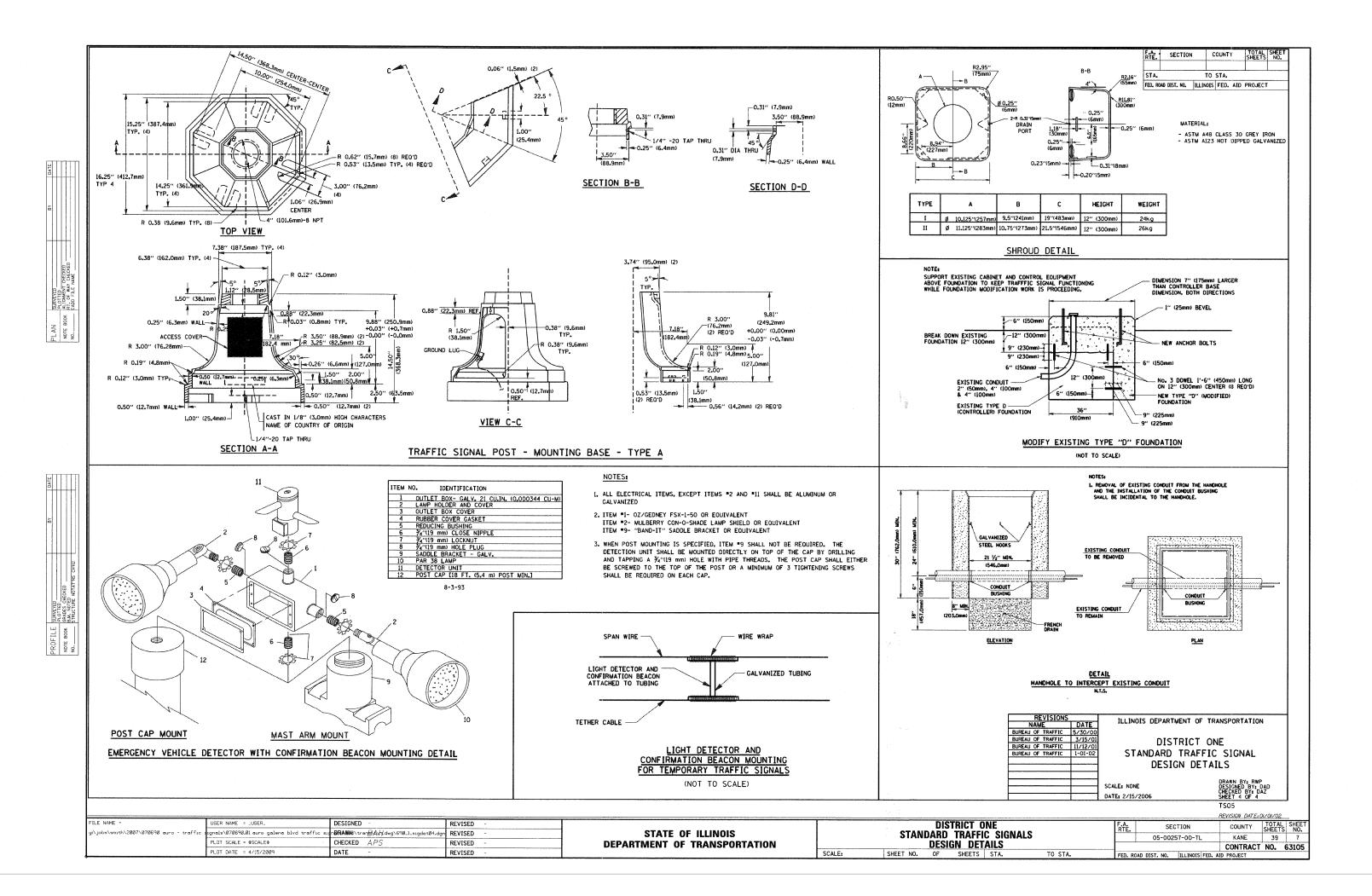
STANDARD TRAFFIC SIGNAL

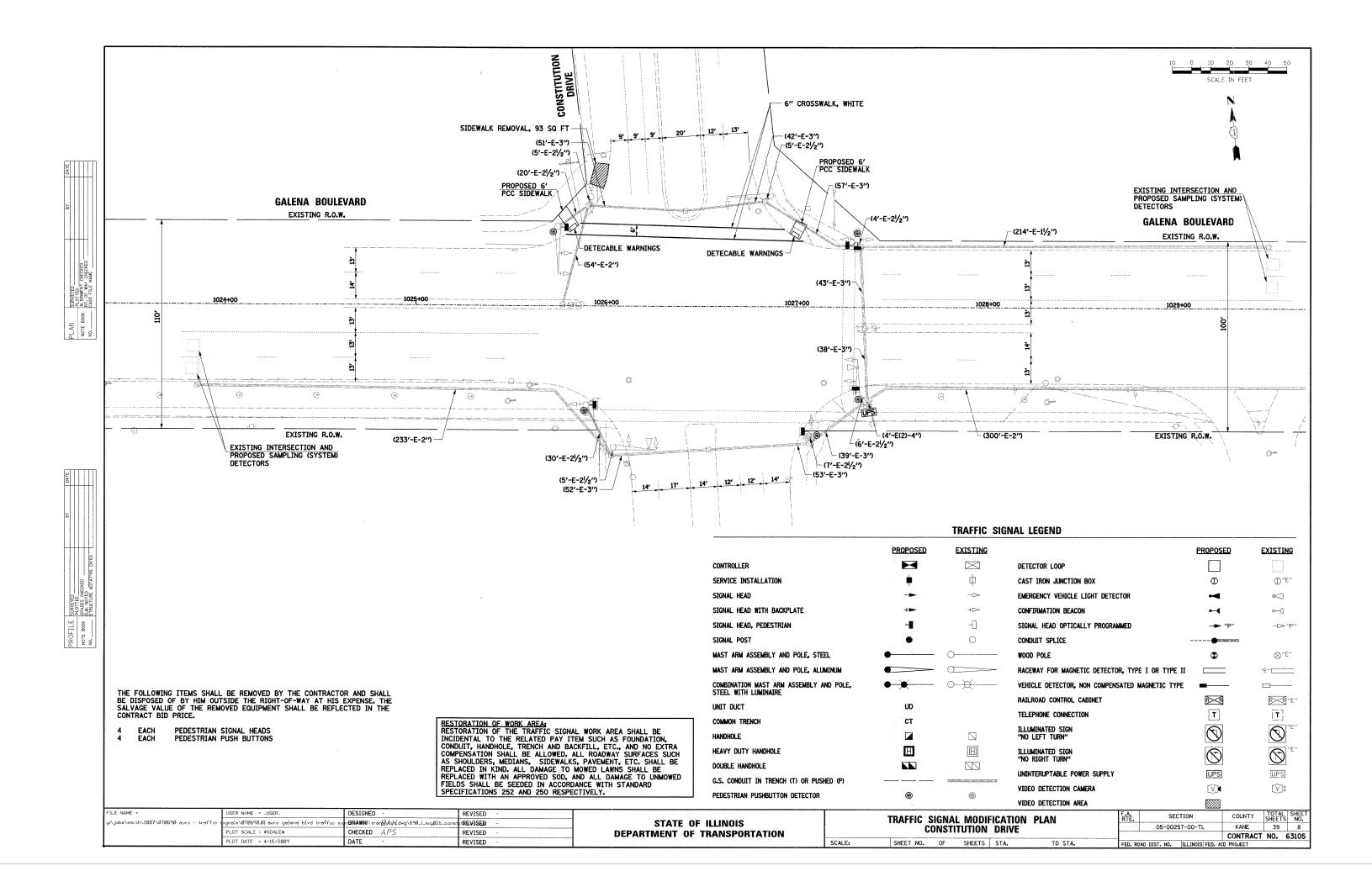
DESIGN DETAILS

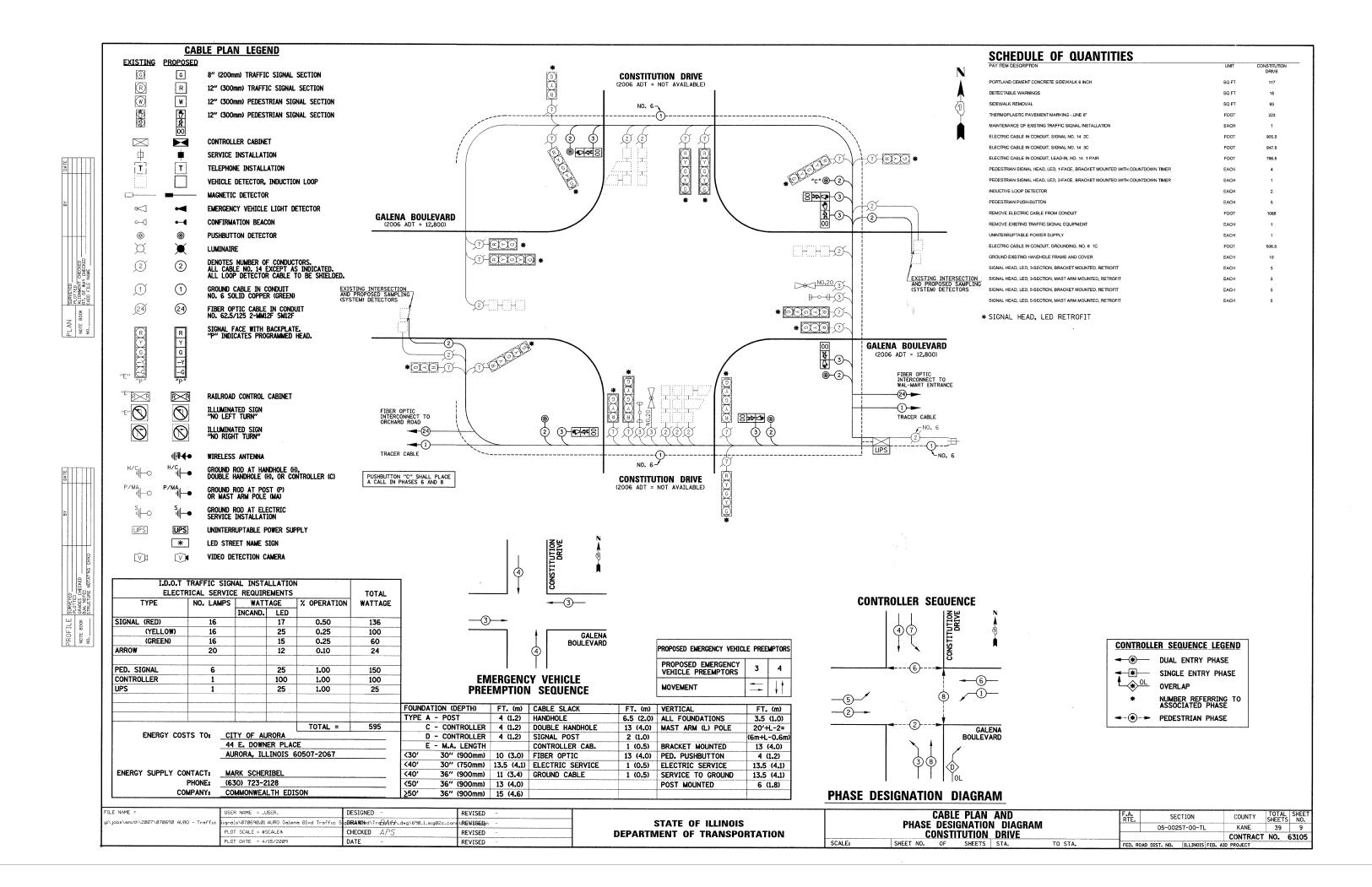
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAD
TSOS

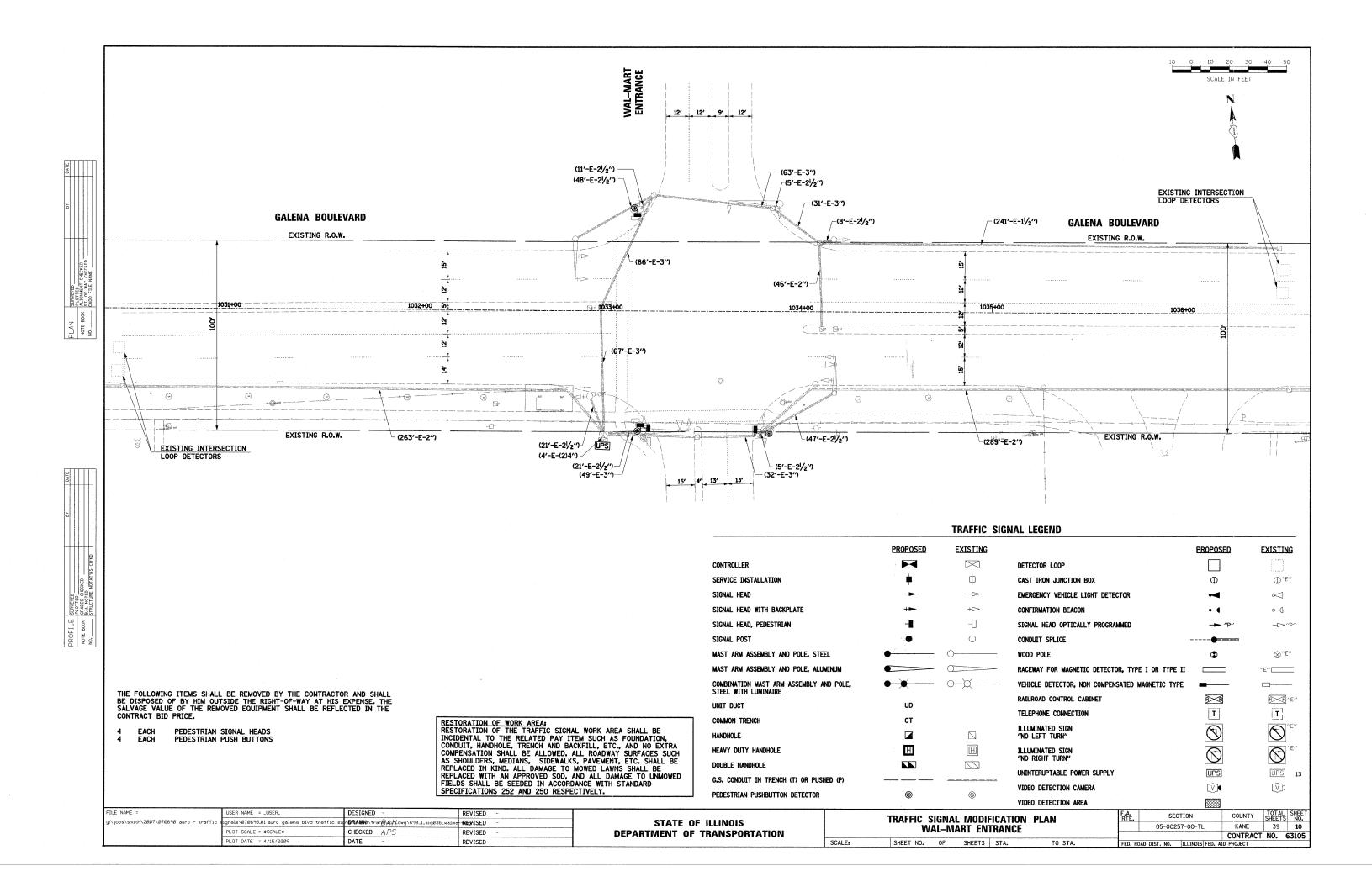
DESIGNED REVISED DISTRICT ONE COUNTY TOTAL SHEE NO. SECTION STATE OF ILLINOIS als\070690.01 auro galena blvd traffic BRAWN \trans Apple dwg \690\_1\_sigdet02.dc REVISED STANDARD TRAFFIC SIGNALS 05-00257-00-TL KANE CHECKED APS PLOT SCALE = \$SCALE\$ REVISED **DEPARTMENT OF TRANSPORTATION DESIGN DETAILS** CONTRACT NO. 63105 PLOT DATE = 4/15/2009 DATE REVISED TO STA. SHEETS STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

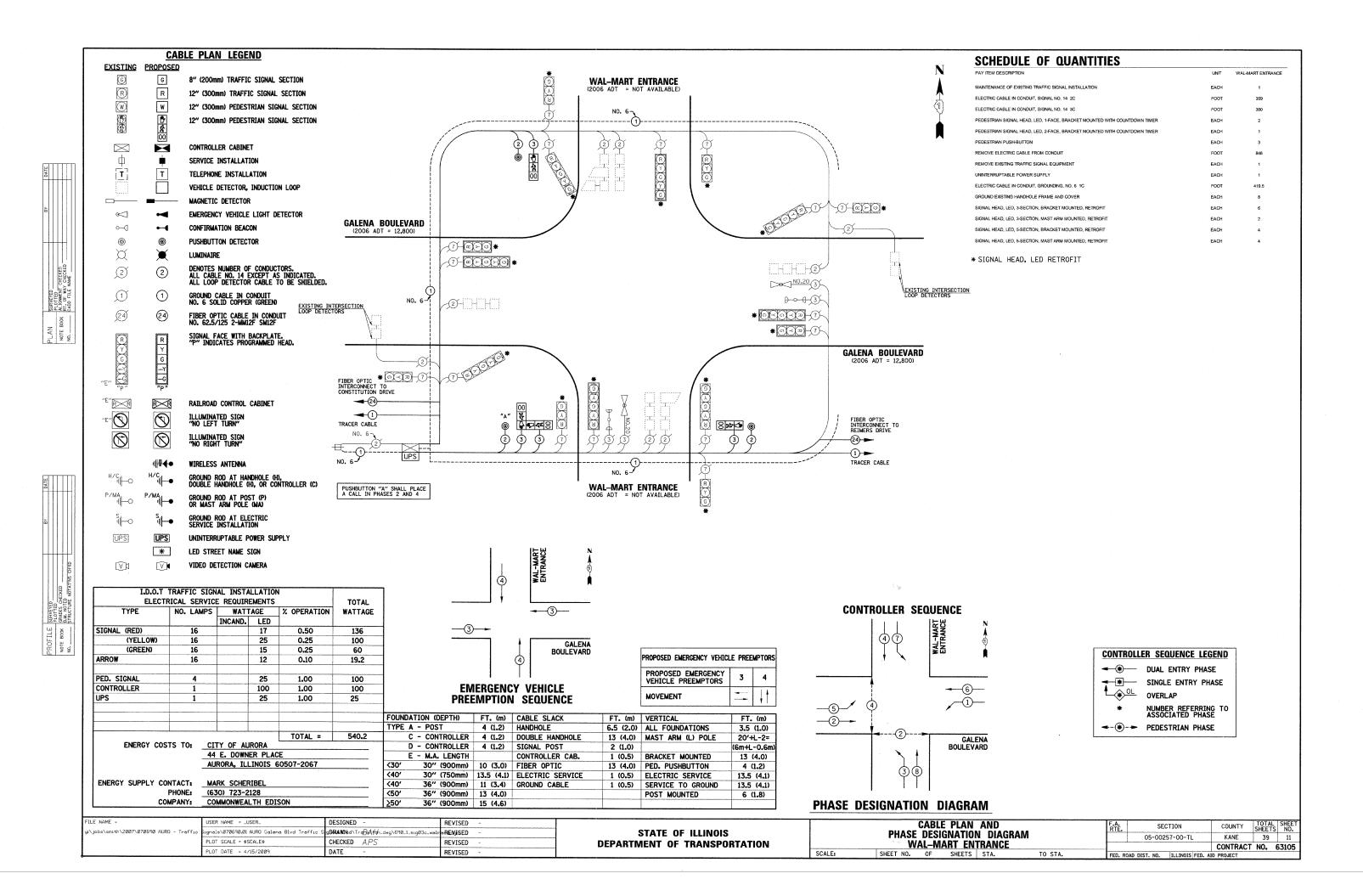


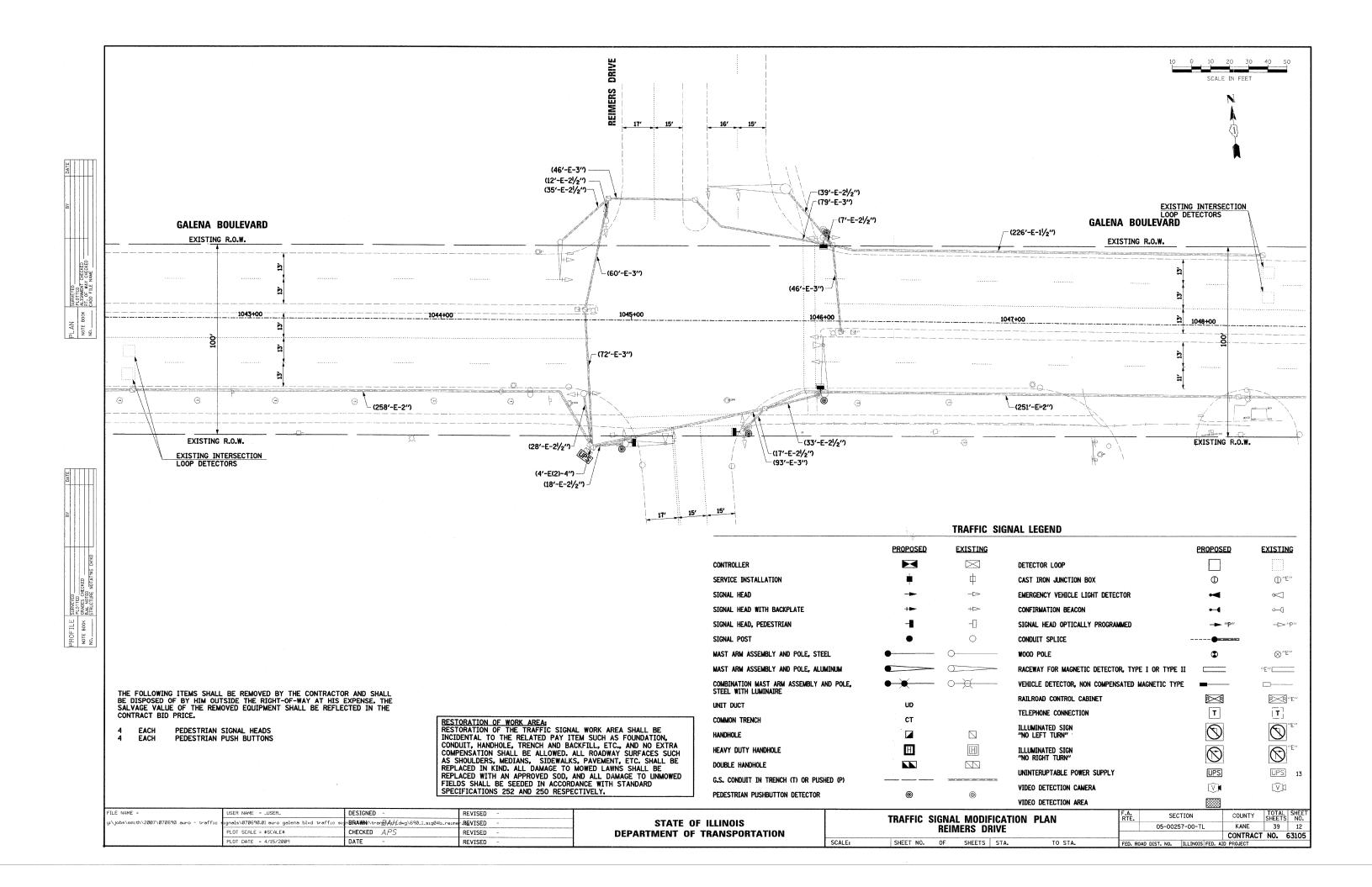


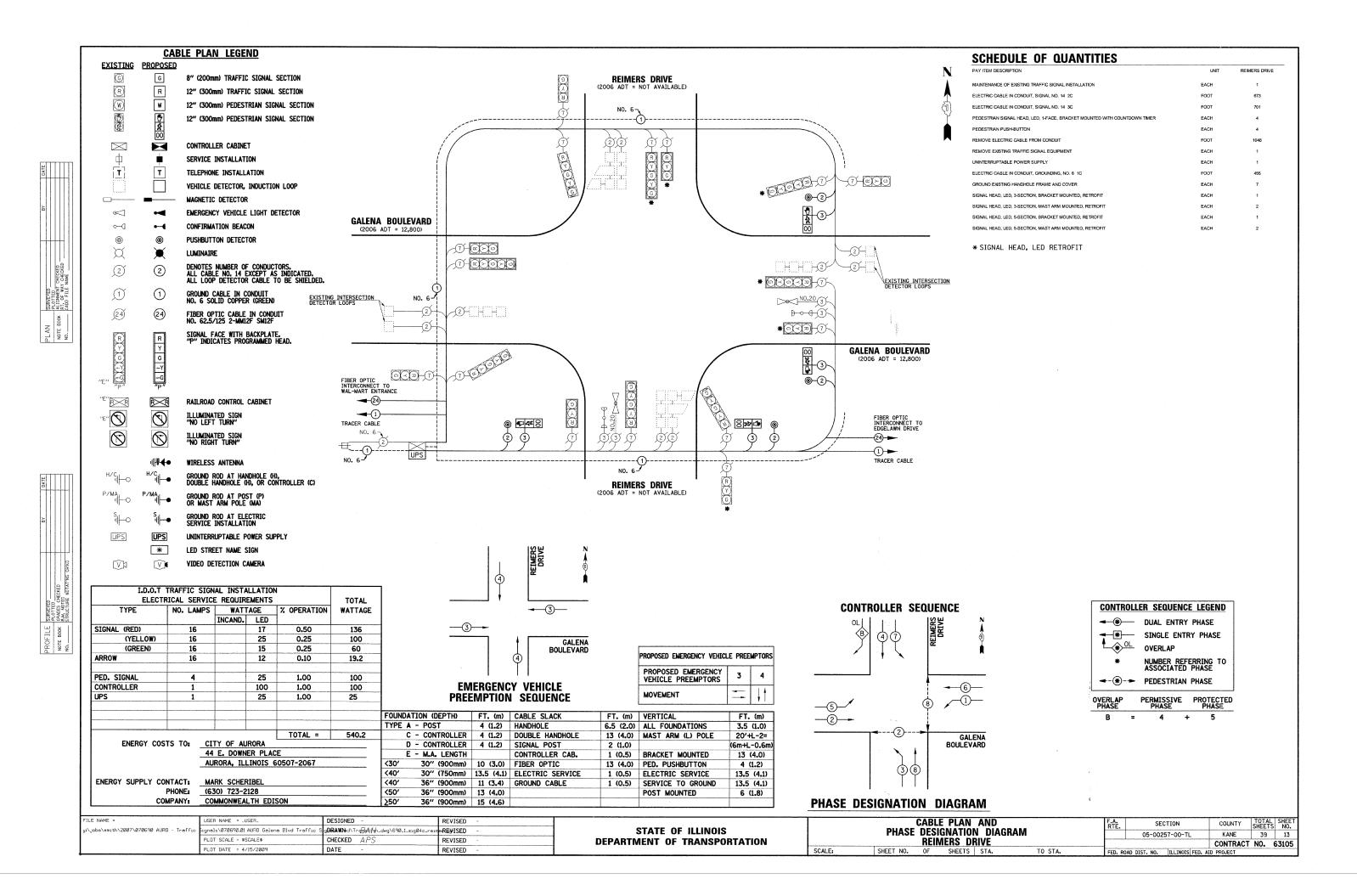


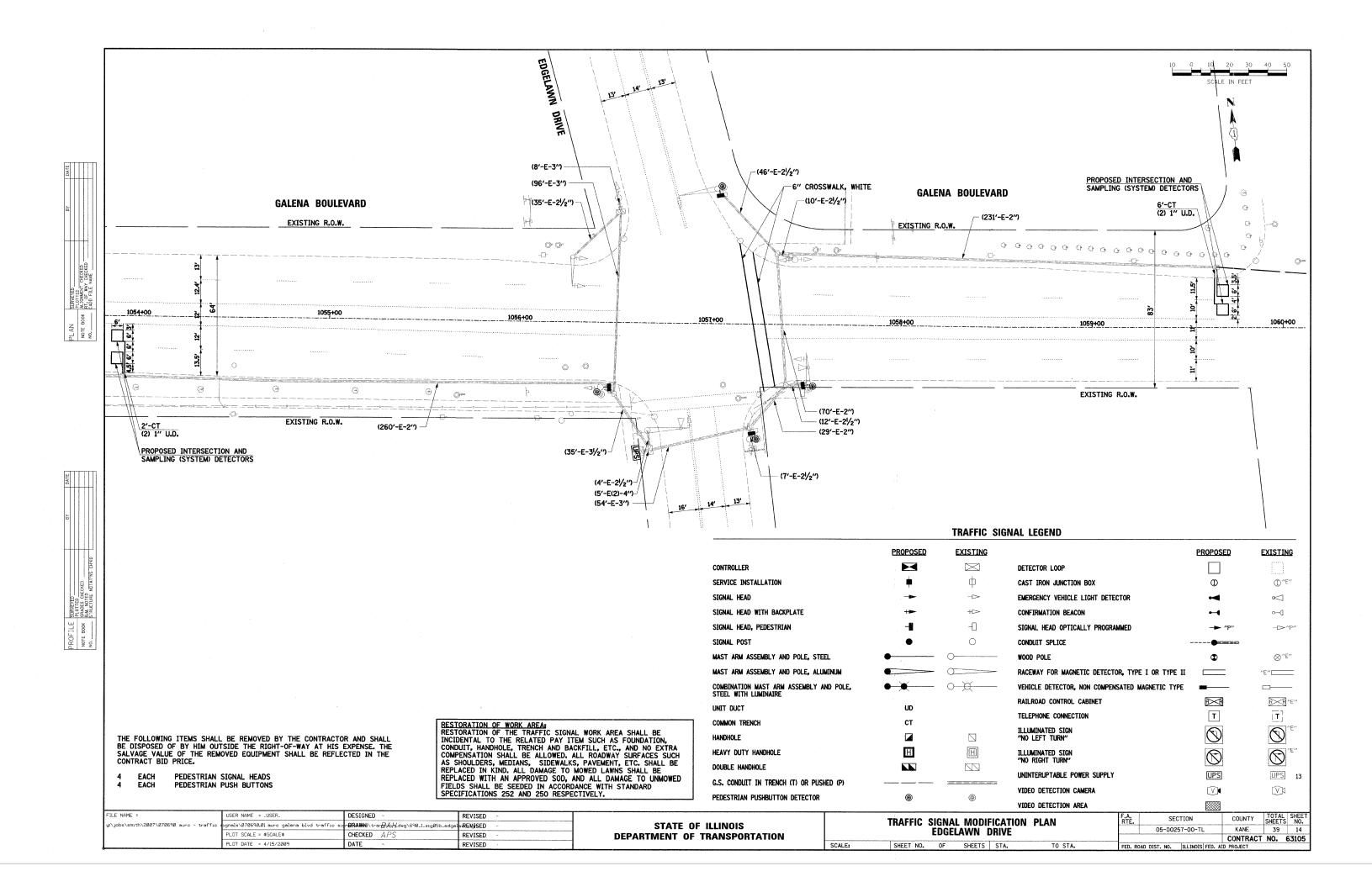


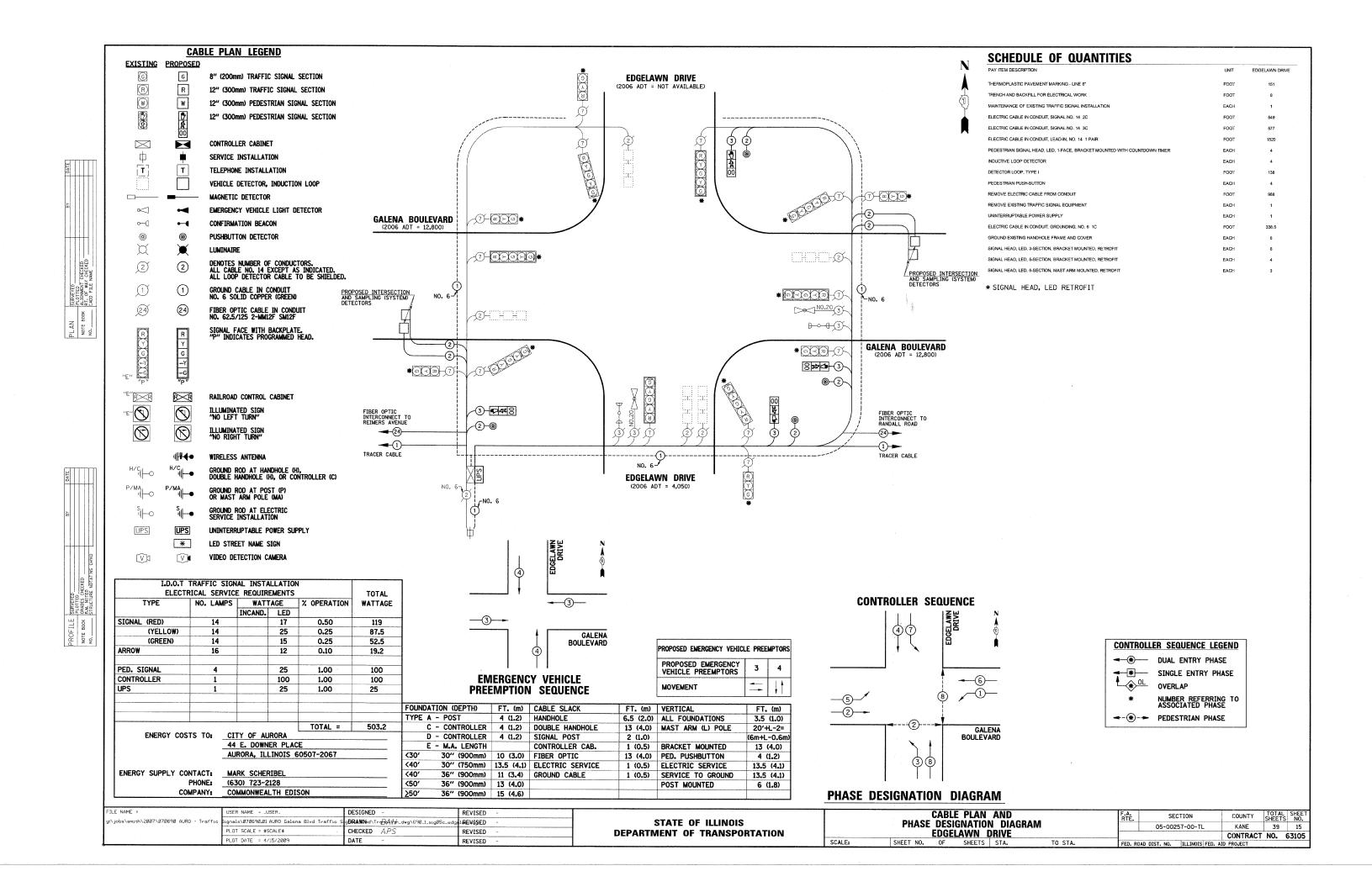


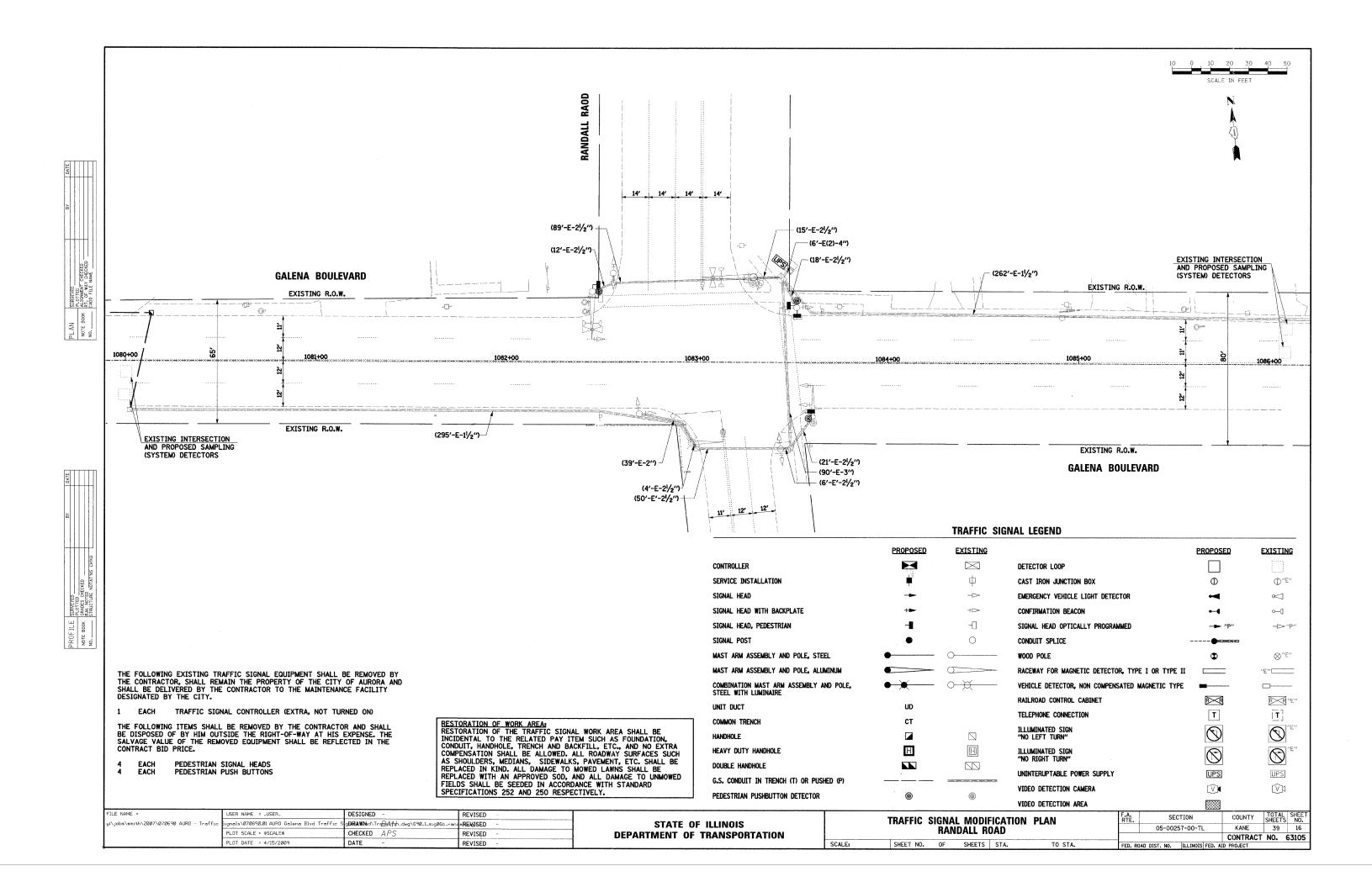


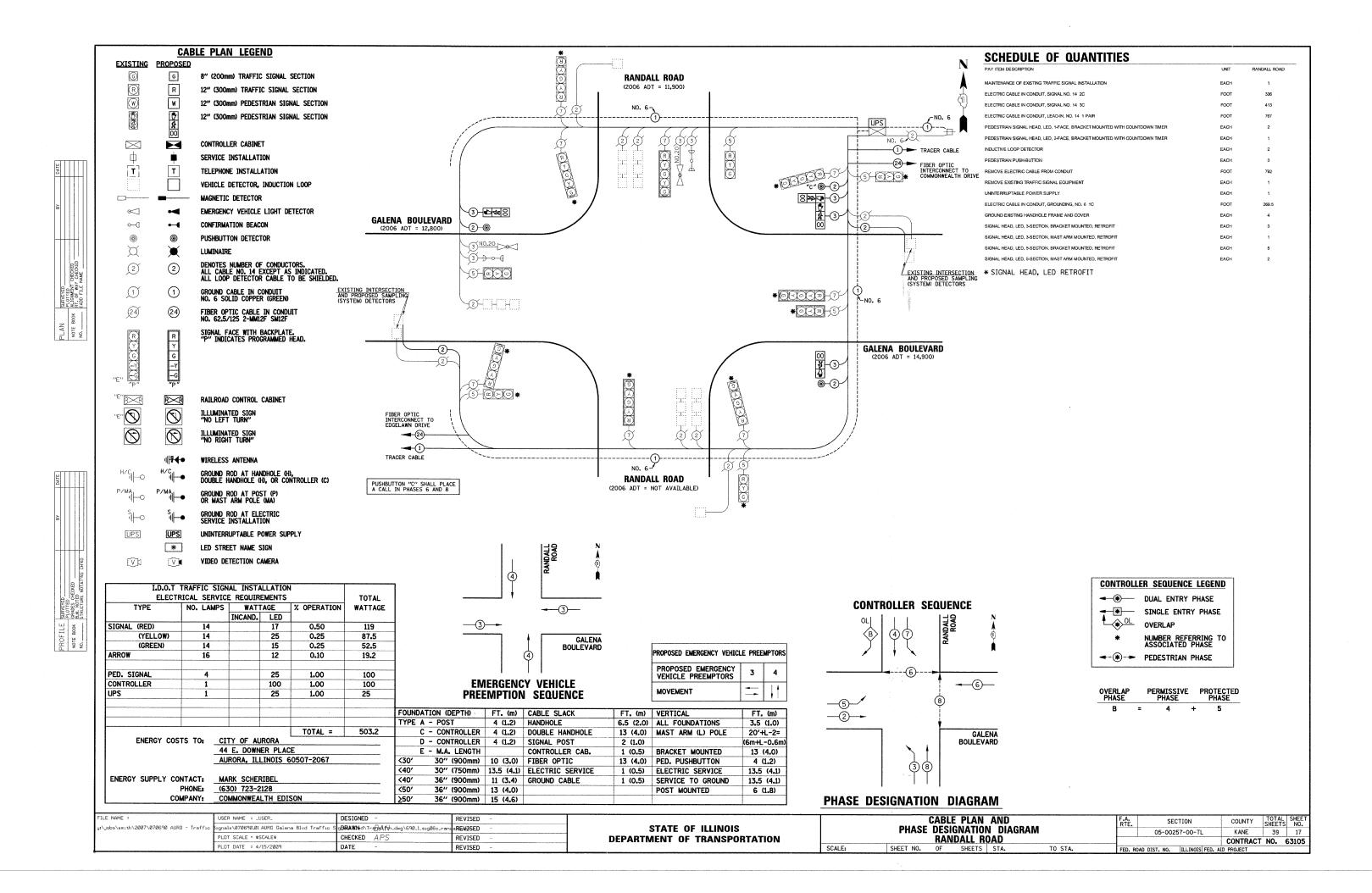


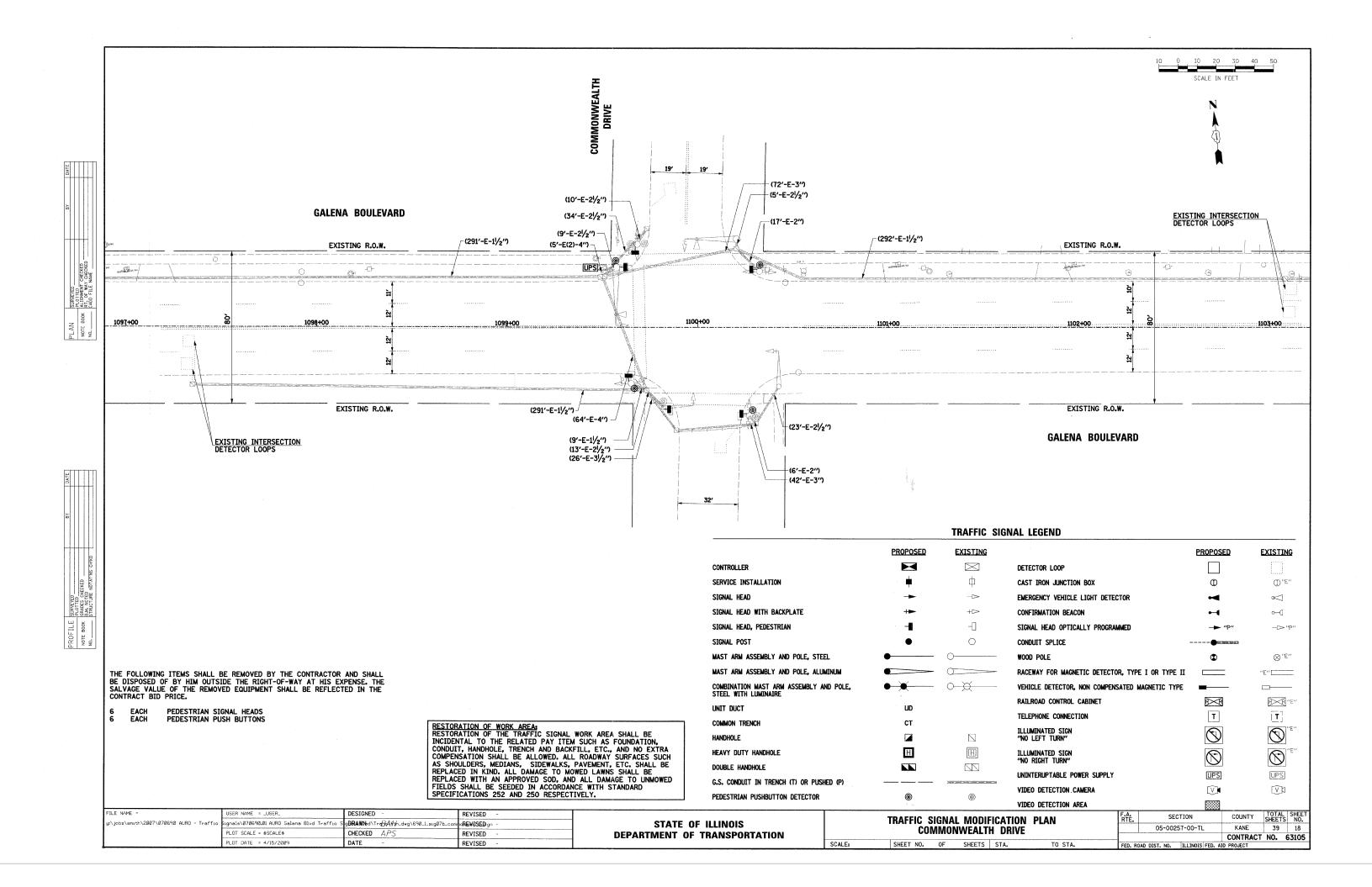


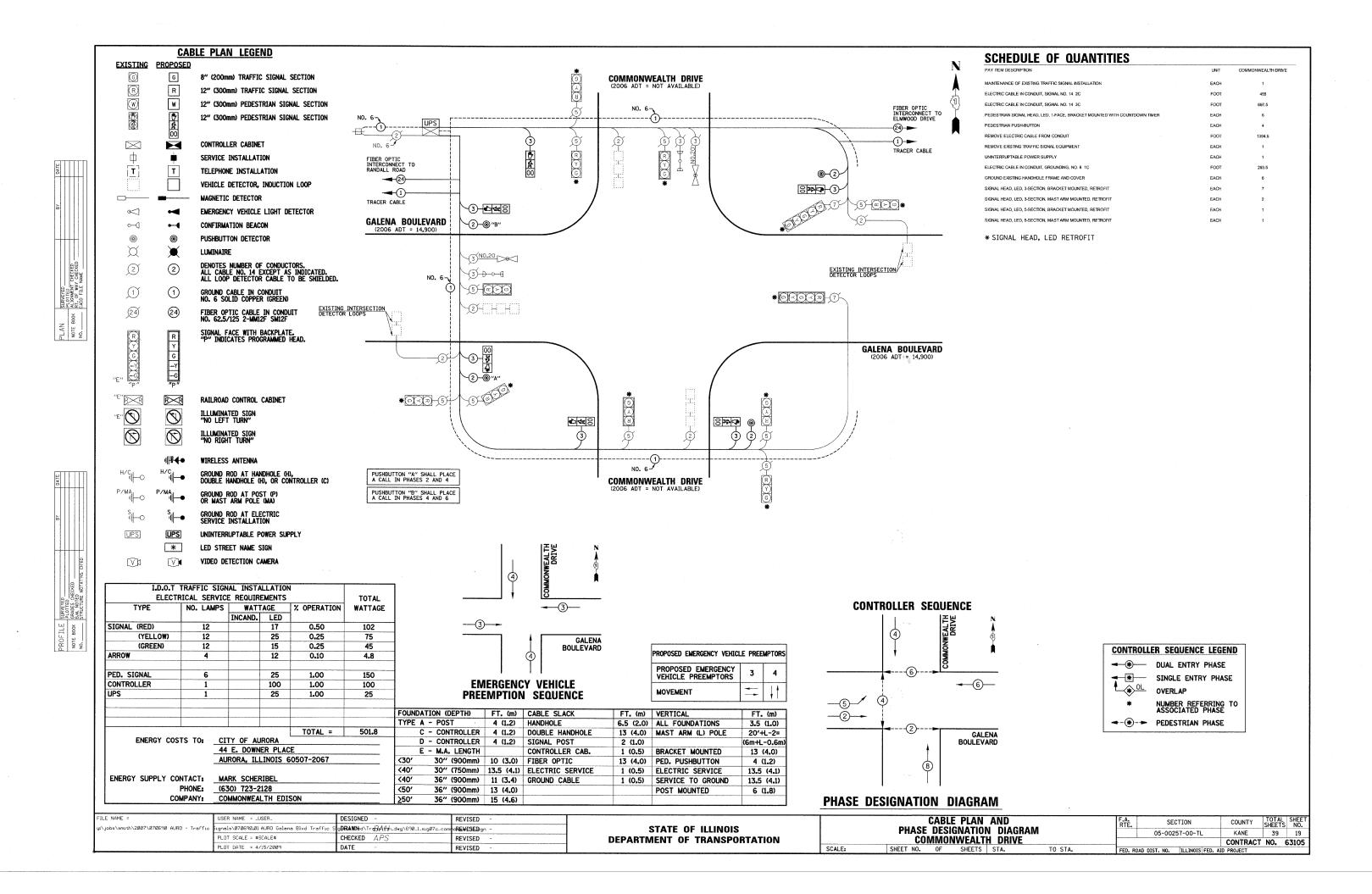


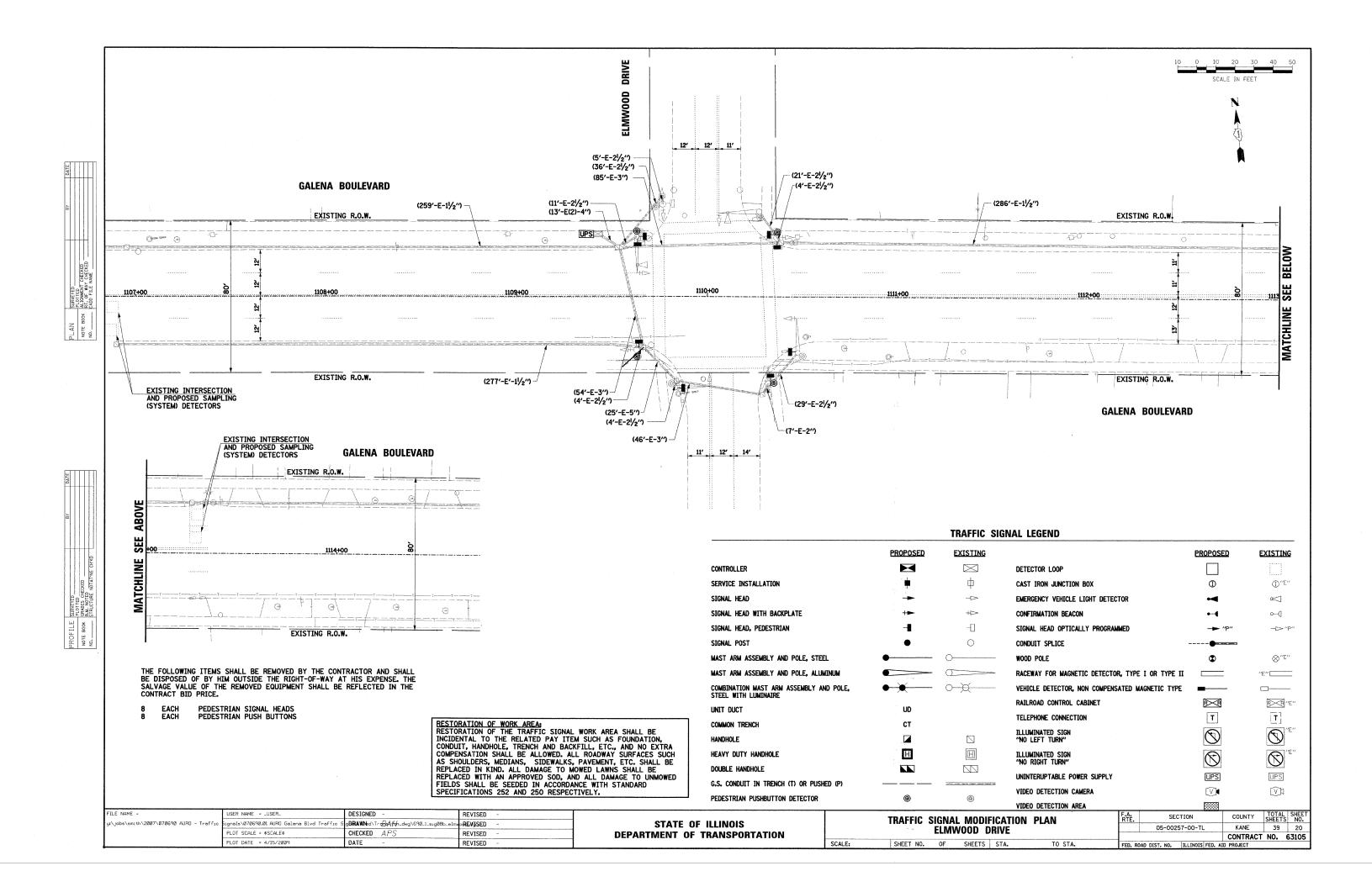


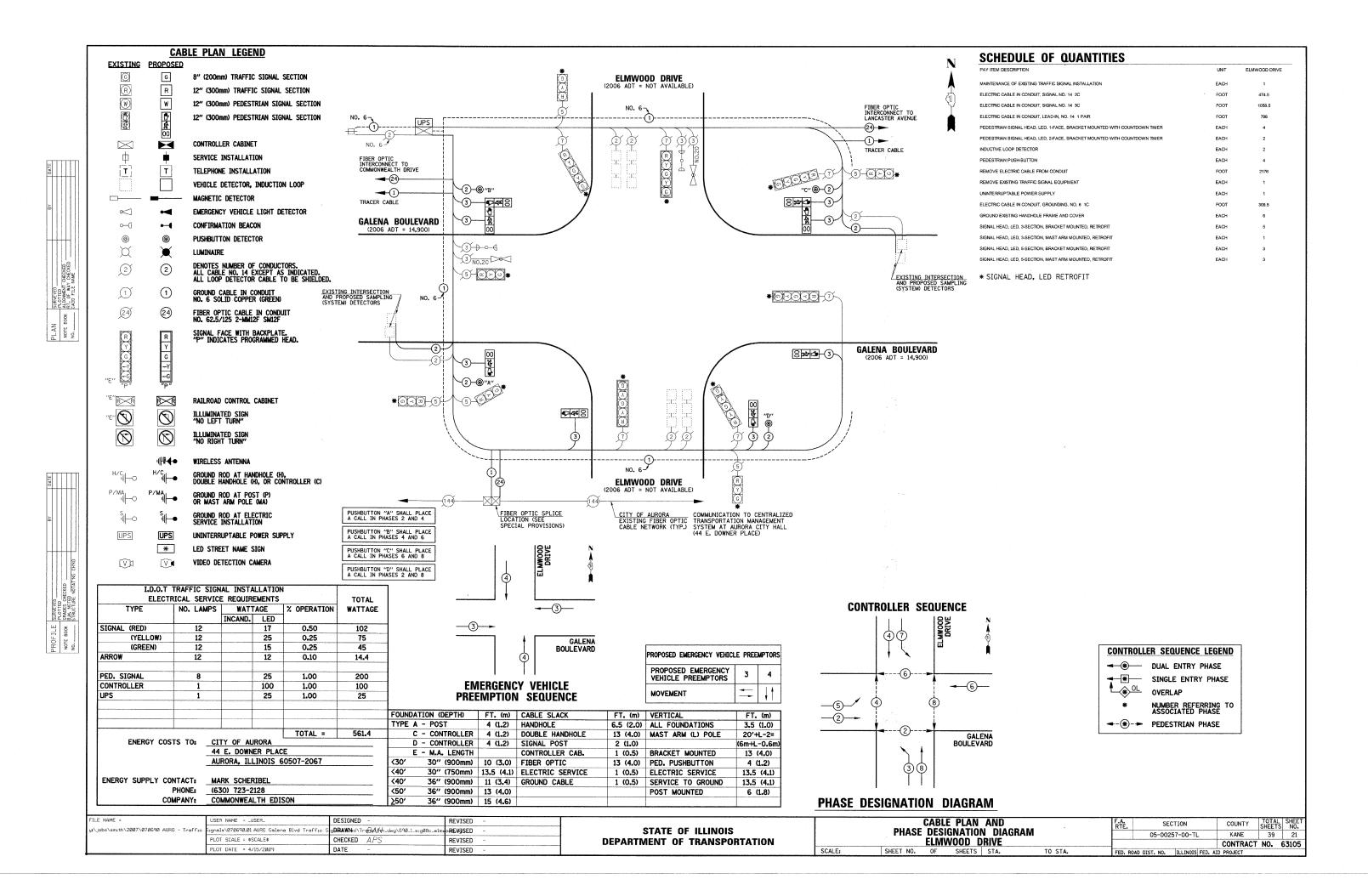


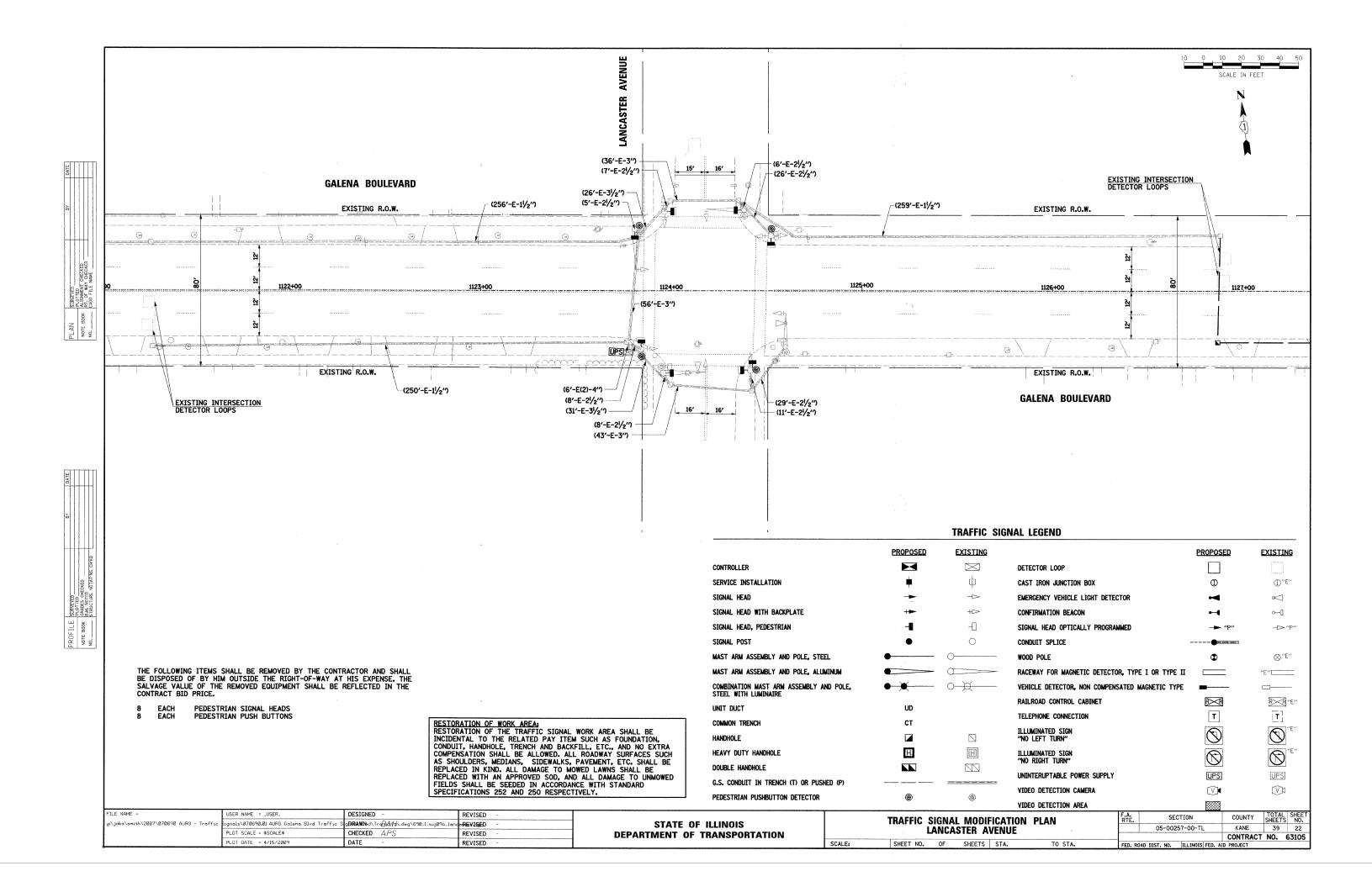


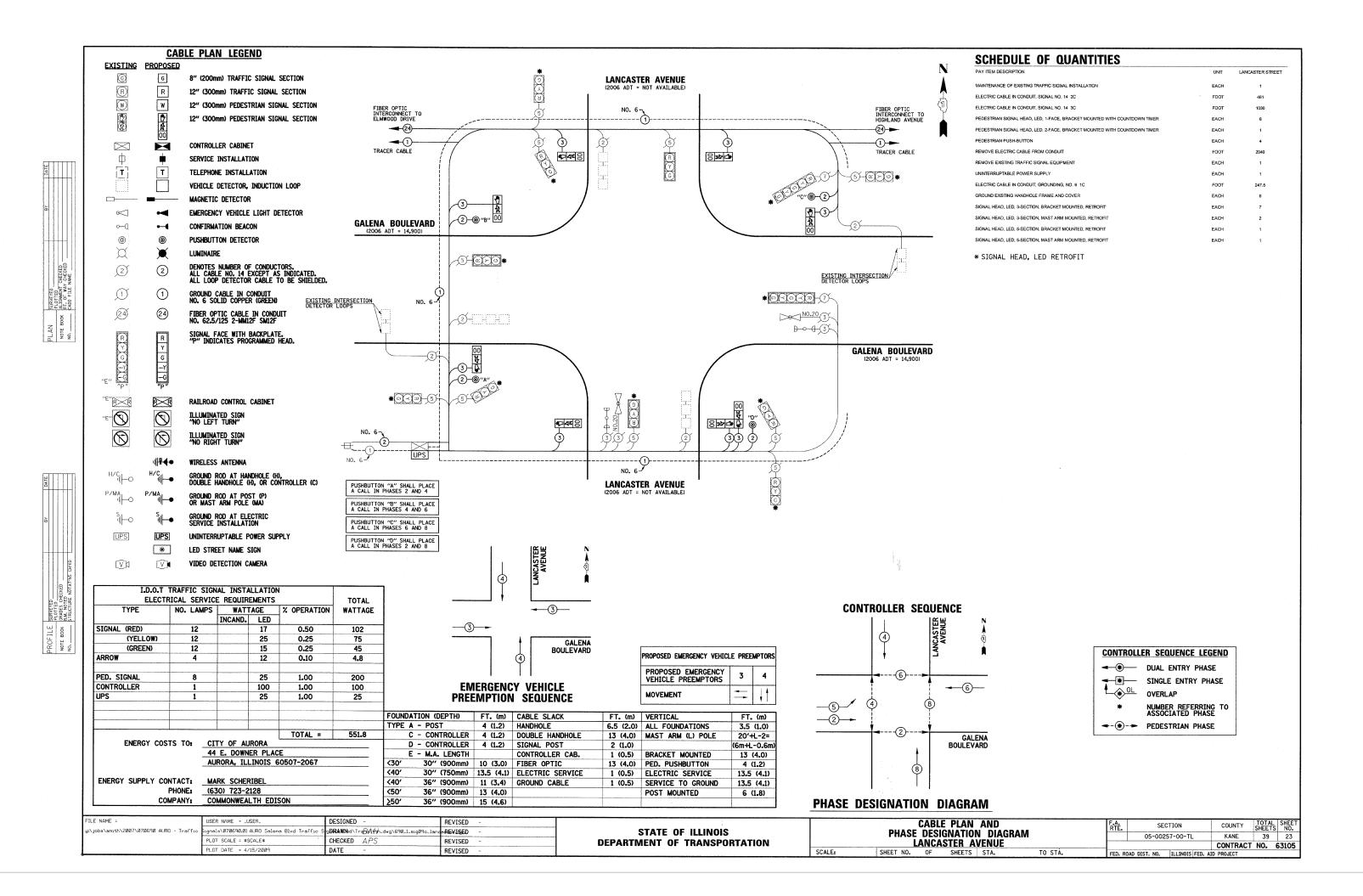


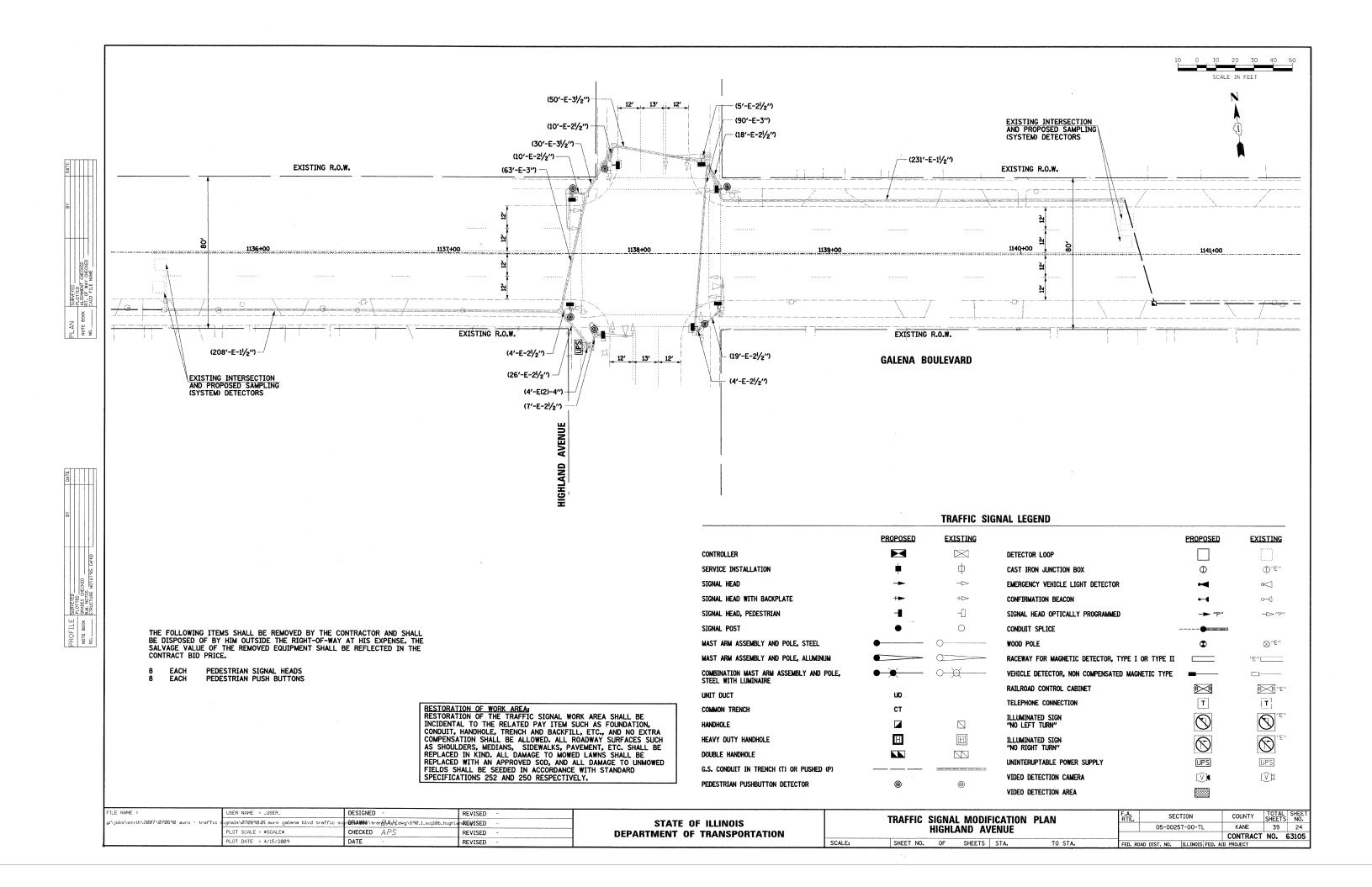


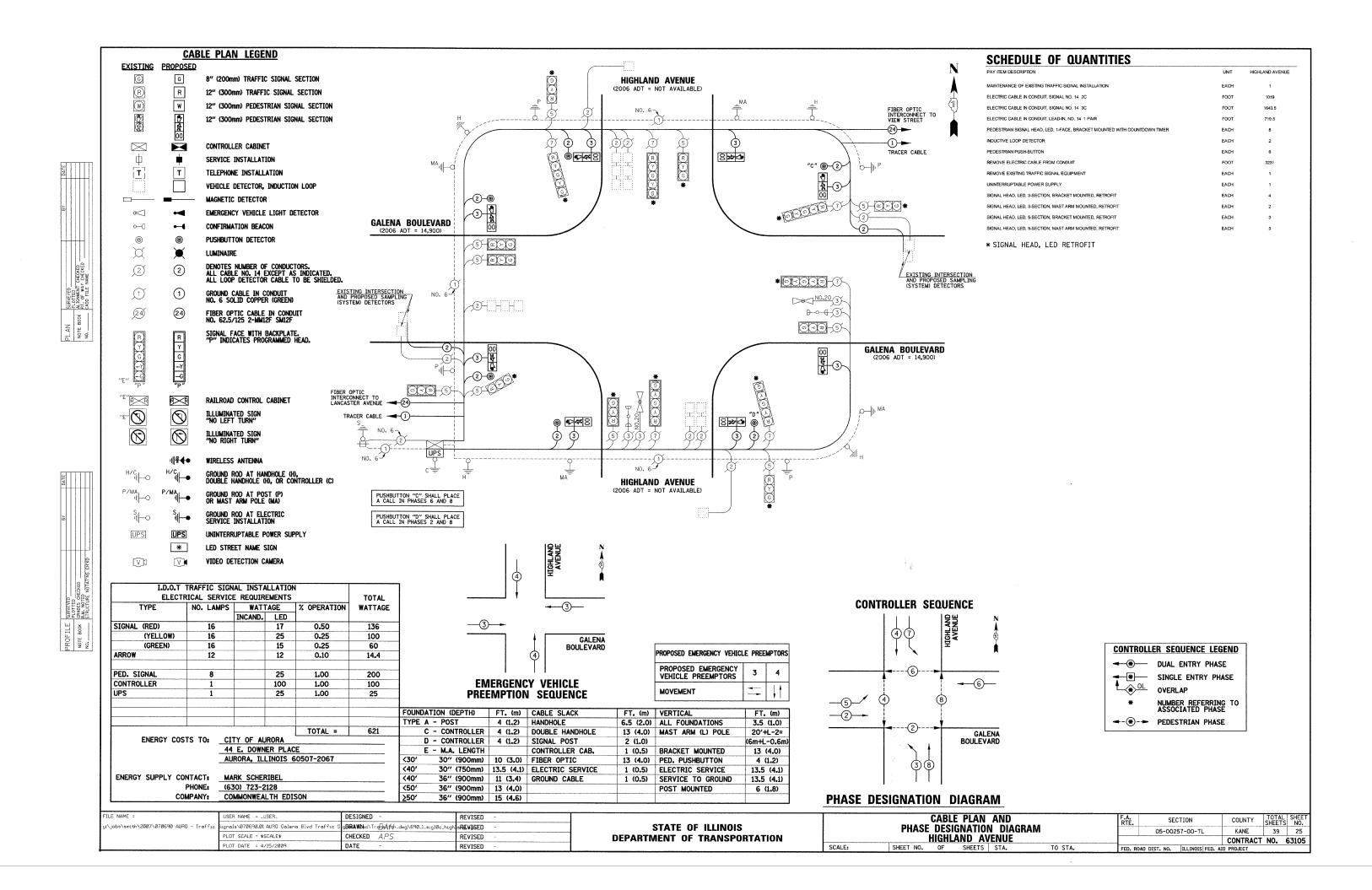


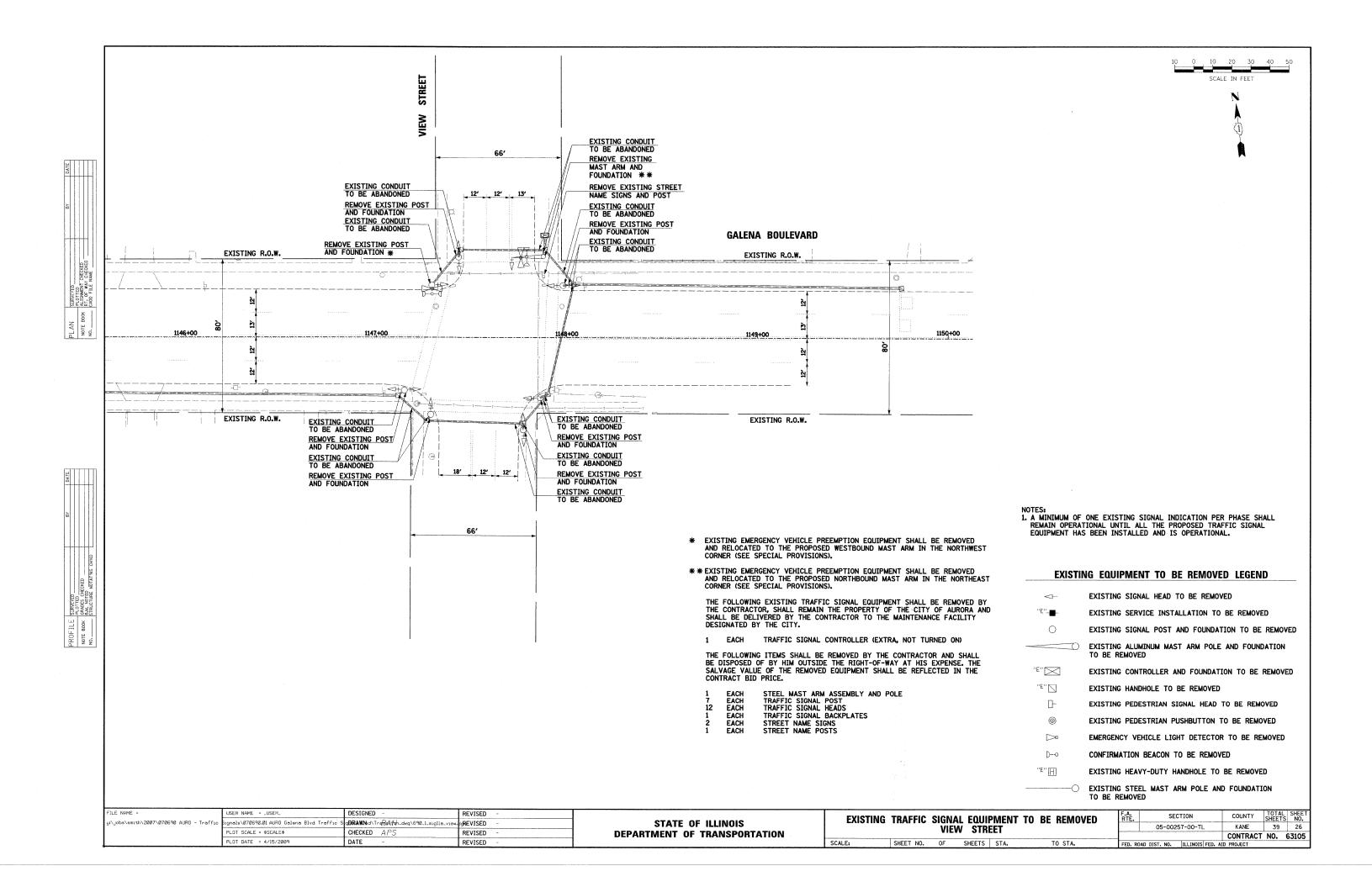


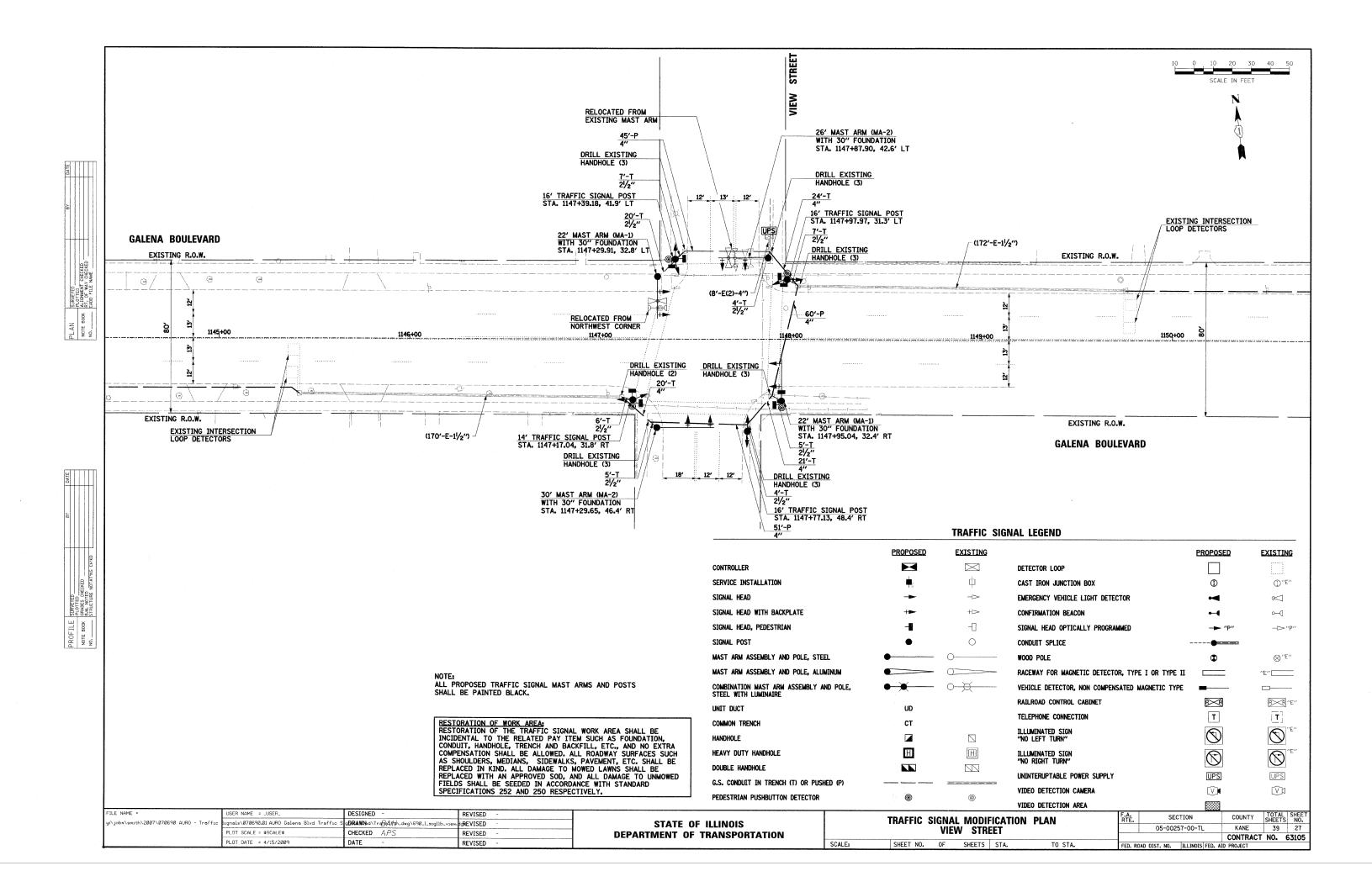


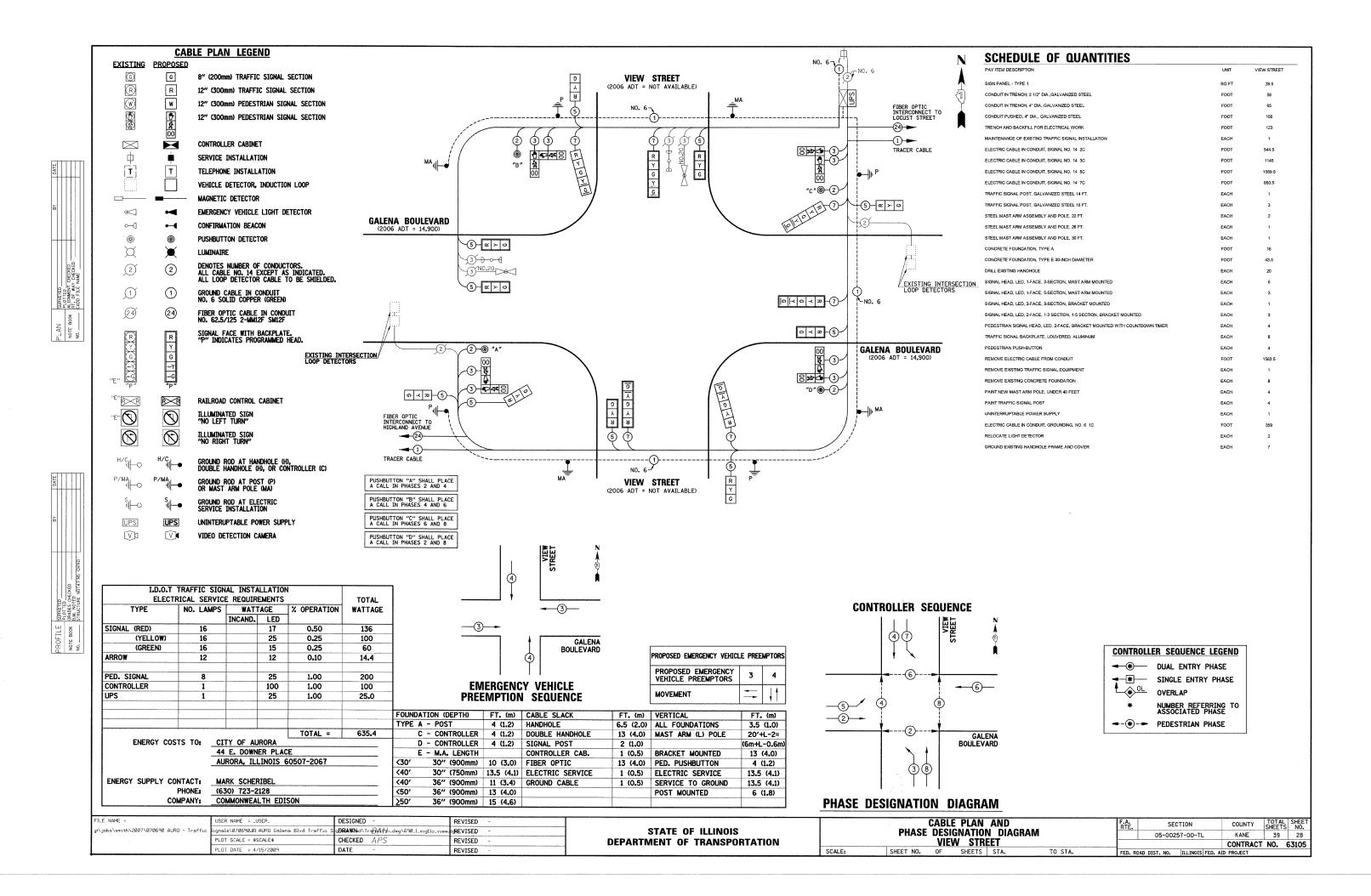


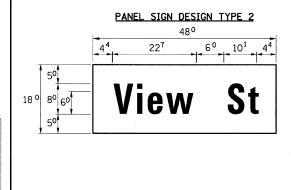




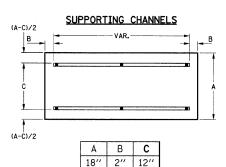




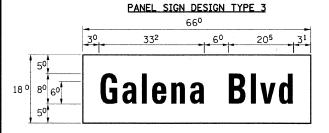




MA-1 6.0 sq. Ft each 2 Required Design Series D

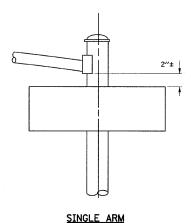


30" 2" 22" SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note \*5



8.25<sub>Sq.</sub> Ft each 2 Required Design Series D

MA-2



DUAL ARM

# GENERAL NOTES

- 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: SECURE SIGN TO MAST ARM-
  - 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

SIGN SCREWS BRACKETS

PLAN SIRVEYED NOTED NOTE BOOK ALTOWARN CHECKED NO. CADD FILE NAME

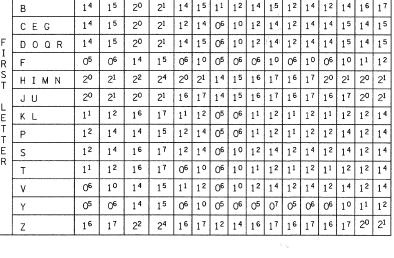
SURVEYED PLOTTED GRADES CHECI B.M. NOTED STRUCTURE N

PART 3HPN053 (MED. CHANNEL) 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





Upper Case To Lower Case

Spacing Chart 8-6 Inch Series "C & D"

acde | bhiki

mnpru

goq

CD

SERIES

A W X

SECOND LETTER

s t

14 | 15 | 12 | 14 | 06 | 10 | 11 | 14 | 06 | 10 | 11 | 12 | 12 | 14

VУ

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

						SE	CON	) LI	ETTI	ΞR							
		a c g (	d e	p h	ikl	f	w		j	s	†	٧	У		x	;	Z
	SERIES	С	D	С	D	С	D	O	D	C	D	С	D	С	D	С	D
F	adhgij Imnqu	16	17	2 <sup>2</sup>	24	16	17	12	14	14	15	14	15	16	17	16	17
R	bfkops	1 <sup>2</sup>	14	16	17	11	12	05	06	11	12	1 <sup>1</sup>	12	1 <sup>2</sup>	14	12	14
T	СӨ	12	14	16	17	12	14	06	1º	1 <sup>2</sup>	14	1 <sup>2</sup>	14	12	14	12	14
Ļ	r	Oe	10	1 <sup>2</sup>	14	06	10	03	03	O <sup>5</sup>	06	O <sup>5</sup>	O <sub>e</sub>	06	10	06	10
E	† z	1 <sup>2</sup>	14	16	17	12	14	06	10	11	12	11	1 <sup>2</sup>	12	14	1 <sup>2</sup>	14
T E	νу	1 <sup>1</sup>	12	14	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	O <sup>5</sup>	06	06	10	O <sub>6</sub>	1º	11	12	11	12
R	W	1 <sup>1</sup>	12	14	1 <sup>5</sup>	11	1 <sup>2</sup>	O <sup>5</sup>	06	1 <sup>1</sup>	12	11	1 <sup>2</sup>	11	1 <sup>2</sup>	1 <sup>2</sup>	14
	х	1 <sup>2</sup>	14	1 <sup>6</sup>	17	11	1 <sup>2</sup>	O <sup>5</sup>	06	11	12	11	1 <sup>2</sup>	11	1 <sup>2</sup>	1 <sup>2</sup>	14

Number To Number

Spacing Chart 8 Inch Series "C & D"

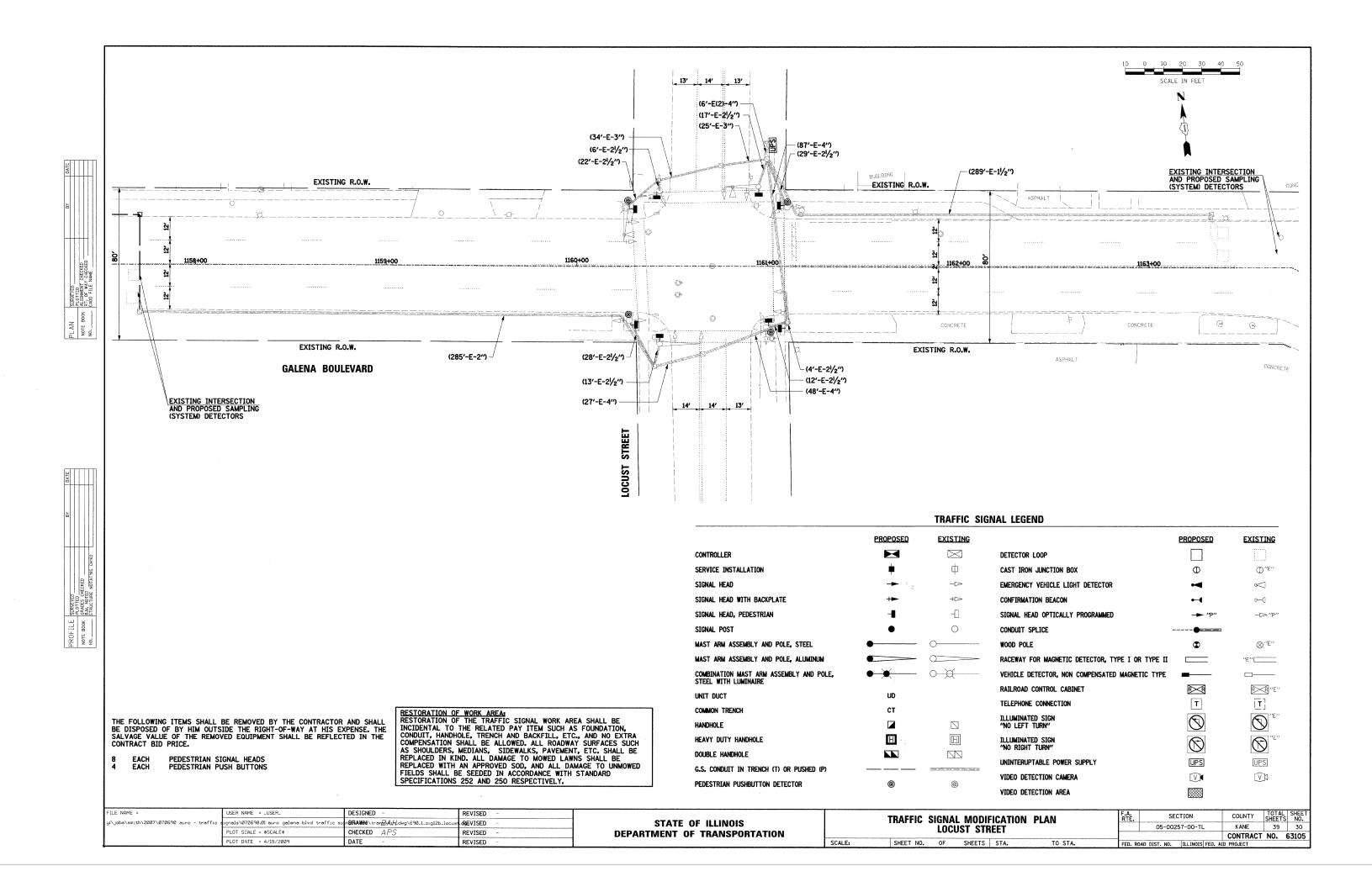
								S	ECC	OND	LE	TTE	R								
			)	:	1	1	2		3		1	,	5	(	3 .	-	7	8	3	į	3
F	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
I	0.9	16	17	16	17	14	15	12	14	14	1 <sup>5</sup>	14	15	16	17	12	14	16	17	16	17
R S	1	20	21	20	2 <sup>1</sup>	20	2 <sup>1</sup>	16	17	14	15	20	21	20	21	14	15	20	2 <sup>1</sup>	20	2 <sup>1</sup>
Т	2 3 4	14	1 <sup>5</sup>	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15
N	5	14	1 <sup>5</sup>	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 E	7	12	14	12	14	14	15	12	15	05	06	12	14	14	15	11	12	14	15	12	14
R	8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

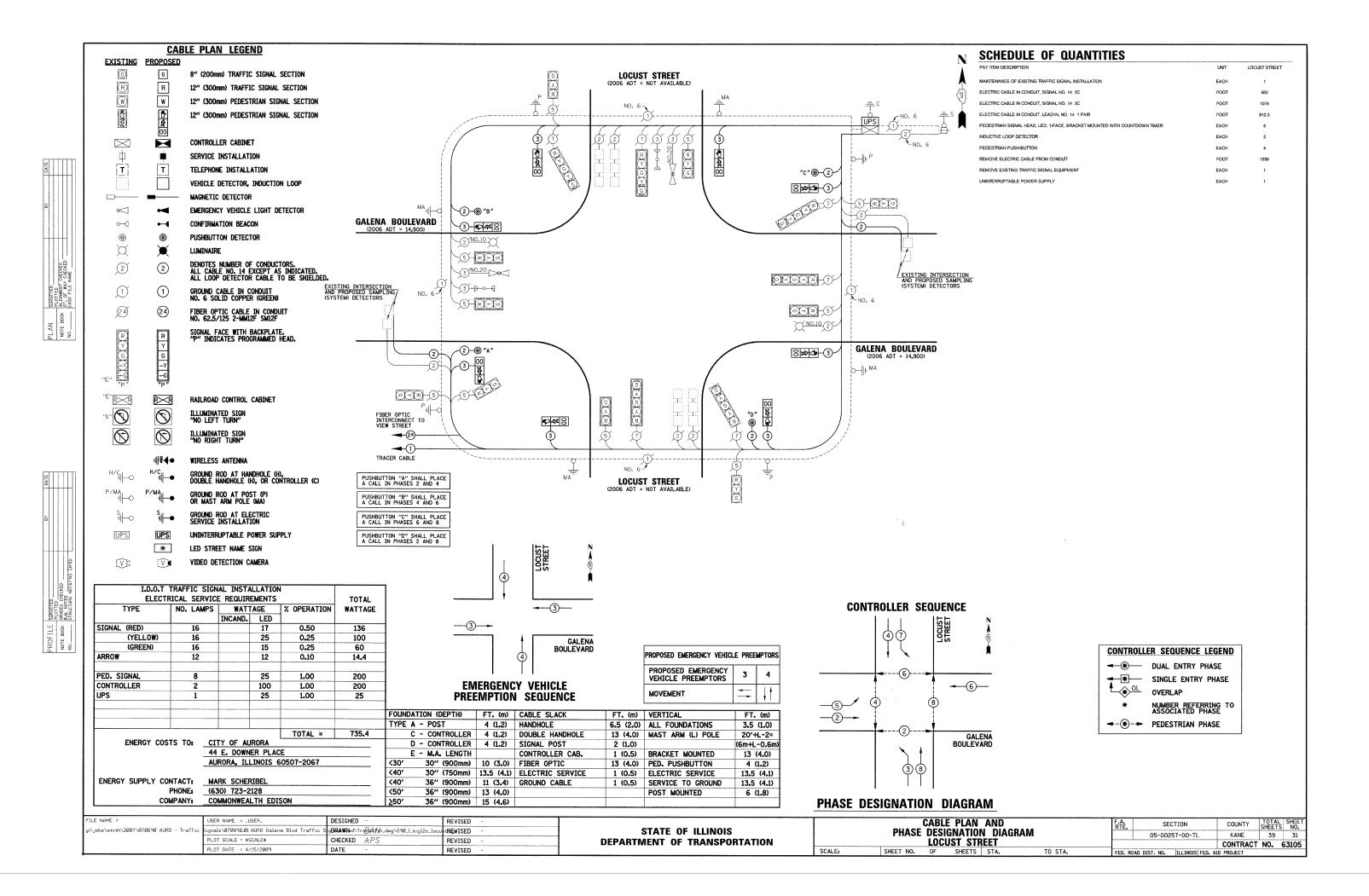
EXAMPLE, 2 DENOTES 3/4"

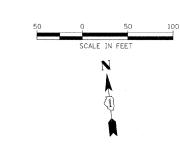
L <sub>E</sub> TT ERS	6 INCH UPPER 8 INCH U CASE LETTERS CASE LET			UPPER ETTERS	LERS	6 INCH LOWER CASE LETTERS				
E	SEF	RIES	SER	RIES	E	SEF	RIES			
'\s	С.	D .	С	D	'`s	С	D			
Α	36	50	50	6 <sup>5</sup>	a	35	42			
В	3 <sup>2</sup>	40	43	53	Ф	35	42			
С	3 <sup>2</sup>	40	43	5³	0	3 <sup>5</sup>	41			
D	3 <sup>2</sup>	40	43	5 <sup>3</sup>	۵	35	42			
E	3 <sup>0</sup>	3 <sup>5</sup>	40	47	е	3 <sup>5</sup>	42			
F	30	3 <sup>5</sup>	40	47	f	2 <sup>3</sup>	2 <sup>6</sup>			
G	3 <sup>2</sup>	40	43	5 <sup>3</sup>	g	<b>3</b> 5	42			
Н	32	40	43	53	h	3 <sup>5</sup>	42			
I	07	07	11	1 <sup>2</sup>	i	11	11			
J	30	3 <sup>6</sup>	40	50	j	20	2 <sup>2</sup>			
K	3 <sup>2</sup>	41	43	5 <sup>4</sup>	k	3 <sup>5</sup>	42			
L	3 <sup>0</sup>	3 <sup>5</sup>	40	47	ı	1 <sup>1</sup>	1 <sup>1</sup>			
М	37	45	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>	70			
N	3 <sup>2</sup>	40	43	5 <sup>3</sup>	n	3 <sup>5</sup>	42			
0	34	42	45	5 <sup>5</sup>	0	36	43			
Р	3 <sup>2</sup>	40	43	53	Р	3 <sup>5</sup>	42			
Q	34	42	45	5 <sup>5</sup>	q	35	42			
R	3 <sup>2</sup>	40	43	5 <sup>3</sup>	r	26	3 <sup>2</sup>			
S	3 <sup>2</sup>	40	43	5 <sup>3</sup>	s	36	42			
Т	30	35	40	47	+	27	3 <sup>2</sup>			
U	3 <sup>2</sup>	40	43	5 <sup>3</sup>	u	35	42			
٧	35	44	47	6 <sup>0</sup>	V	42	47			
W	44	5 <sup>2</sup>	6º	70	w	55	64			
Х	34	40	45	5 <sup>3</sup>	×	44	5 <sup>1</sup>			
Υ	36 .	5 <sup>0</sup>	5º	. 6 <sup>6</sup>	У	46	53			
Z	3 <sup>2</sup>	40	43	5 <sup>3</sup>	z	36	43			
I										

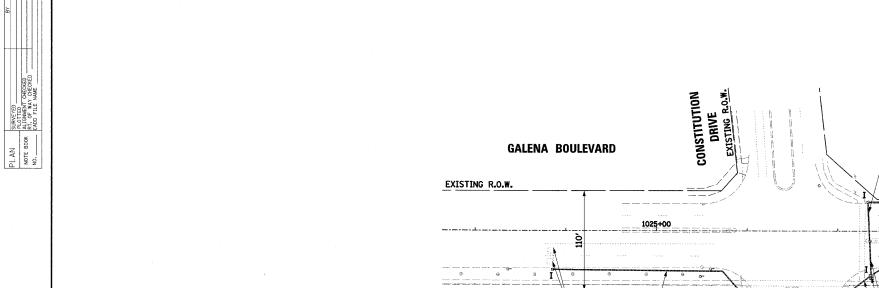
$ ^{N_{U_{M_{-}}}} $	M <sub>R</sub> 6 INCH SERIES		8 INCH	SERIES
NU <sub>MBER</sub>	С	D	С	D
1	12	14	15	20
2	3 <sup>2</sup>	40	43	53
3	3 <sup>2</sup>	40	43	5 <sup>3</sup>
4	3 <sup>5</sup>	43	47	5 <sup>7</sup>
5	3 <sup>2</sup>	40	43	5 <sup>3</sup>
6	3 <sup>2</sup>	40	43	53
7	3 <sup>2</sup>	40	43	5 <sup>3</sup>
8	3 <sup>2</sup>	40	43	5 <sup>3</sup>
9	3 <sup>2</sup>	40	43	53
0	34	42	4 <sup>5</sup>	5 <sup>5</sup>

STATE OF HIMMIS	B#AC	T 4044	BAOLISI		neer	NAME OF	2210	F.A. RTE.	SECTI	ON	COUNTY	TOTAL	SHEET NO.
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS							05-0025		-00-TL	KANE	39	29
DEFAITIBLE OF THATSO OFFICE	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	D STA.	FED. R	DAD DIST. NO. II	LLINOIS FED. AI	D PROJECT	NO.	63105









EXISTING INTERSECTION
AND PROPOSED SAMPLING
(SYSTEM) DETECTORS --(43'-E-3") (214-E-1<sup>1</sup>/<sub>2</sub>") EXISTING R.O.W. 1030+00 MATCHLINE EXISTING R.O.W. EXISTING R.O.W. (233'-E-2") ---(38'-E-3'') --(4'-E(2)-4'') (300'-E-2") EXISTING INTERSECTION AND PROPOSED SAMPLING (SYSTEM) DETECTORS (263'-E-2")--(39'-E-3") -(53'-E-3") (52'-E-3")

MODIFY EXISTING CONTROLLER (SPECIAL):
ALL TRAFFIC SIGNAL CONTROLLERS MUST BE FULLY OPERATIONAL
AND NTCIP COMPATIBLE PRIOR TO INSTALLATION OF THE CENTRALIZED
TRANSPORTATION MANAGEMENT SYSTEM (SEE SPECIAL PROVISIONS).

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.

CONTROLLER		$\bowtie$
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE	H	$\square$
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	S	

INTERSECTION

MAST ARM ASSEMBLY AND POLE, STEEL .

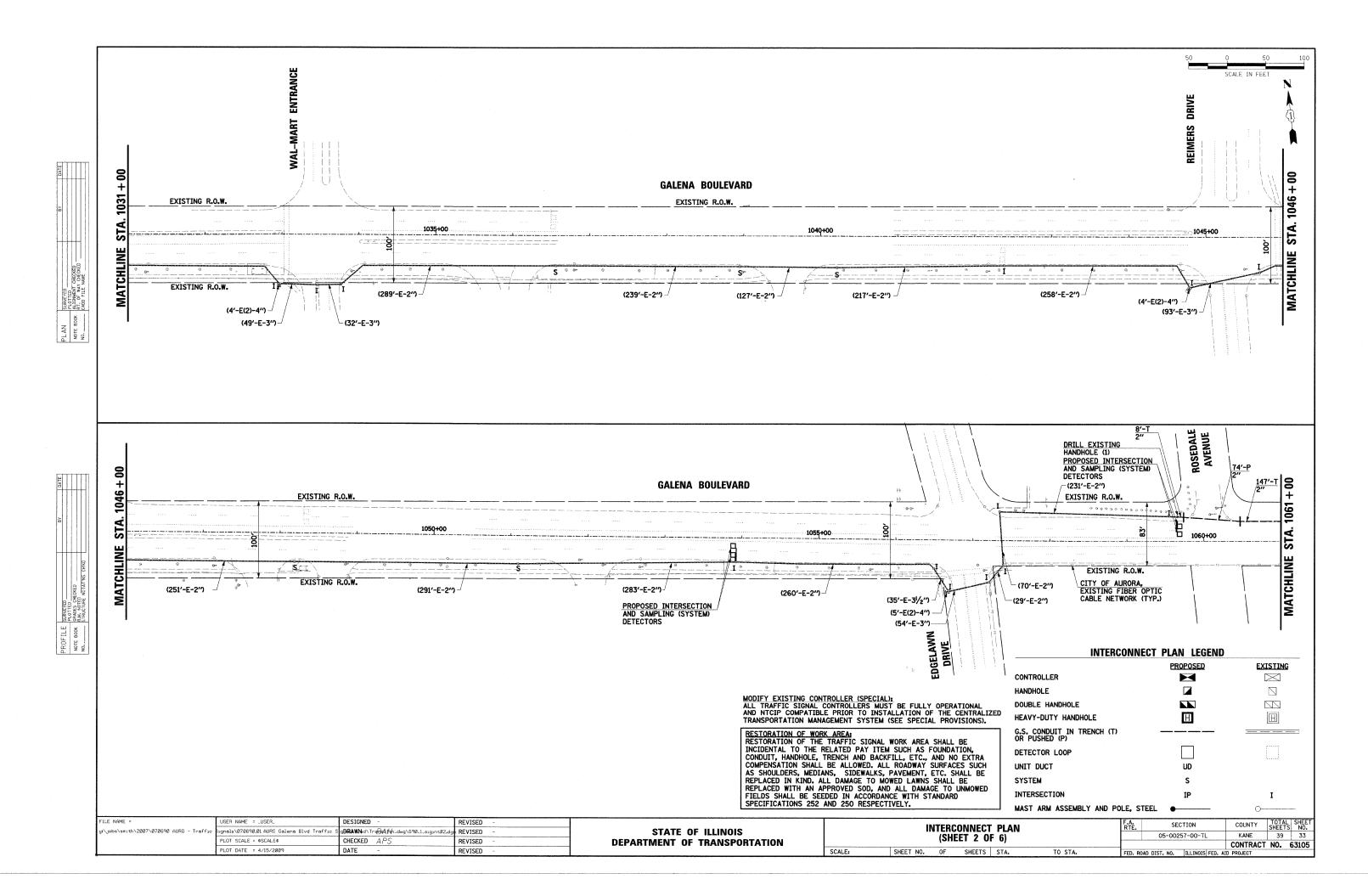
INTERCONNECT PLAN LEGEND

PROPOSED

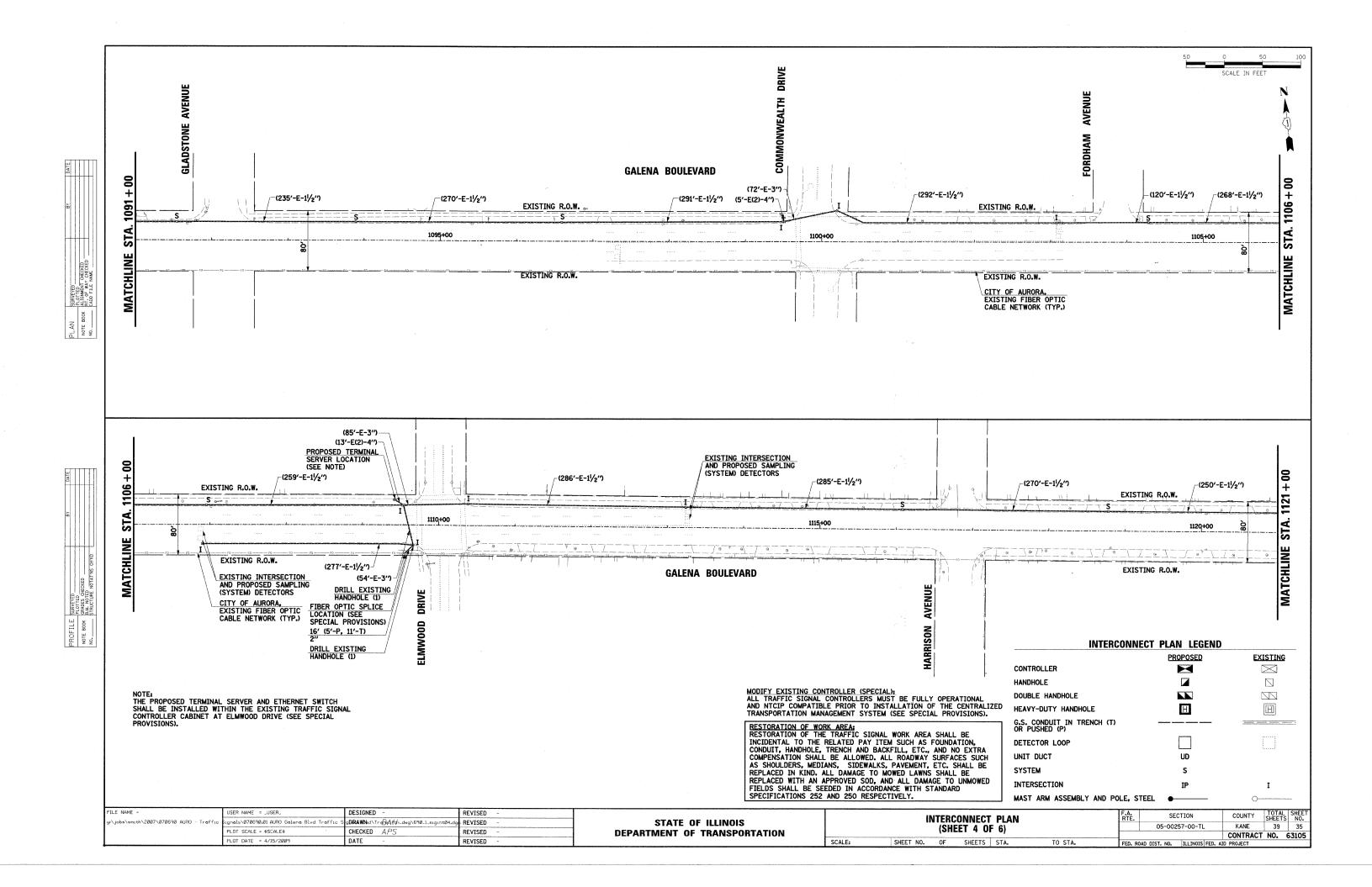
EXISTING

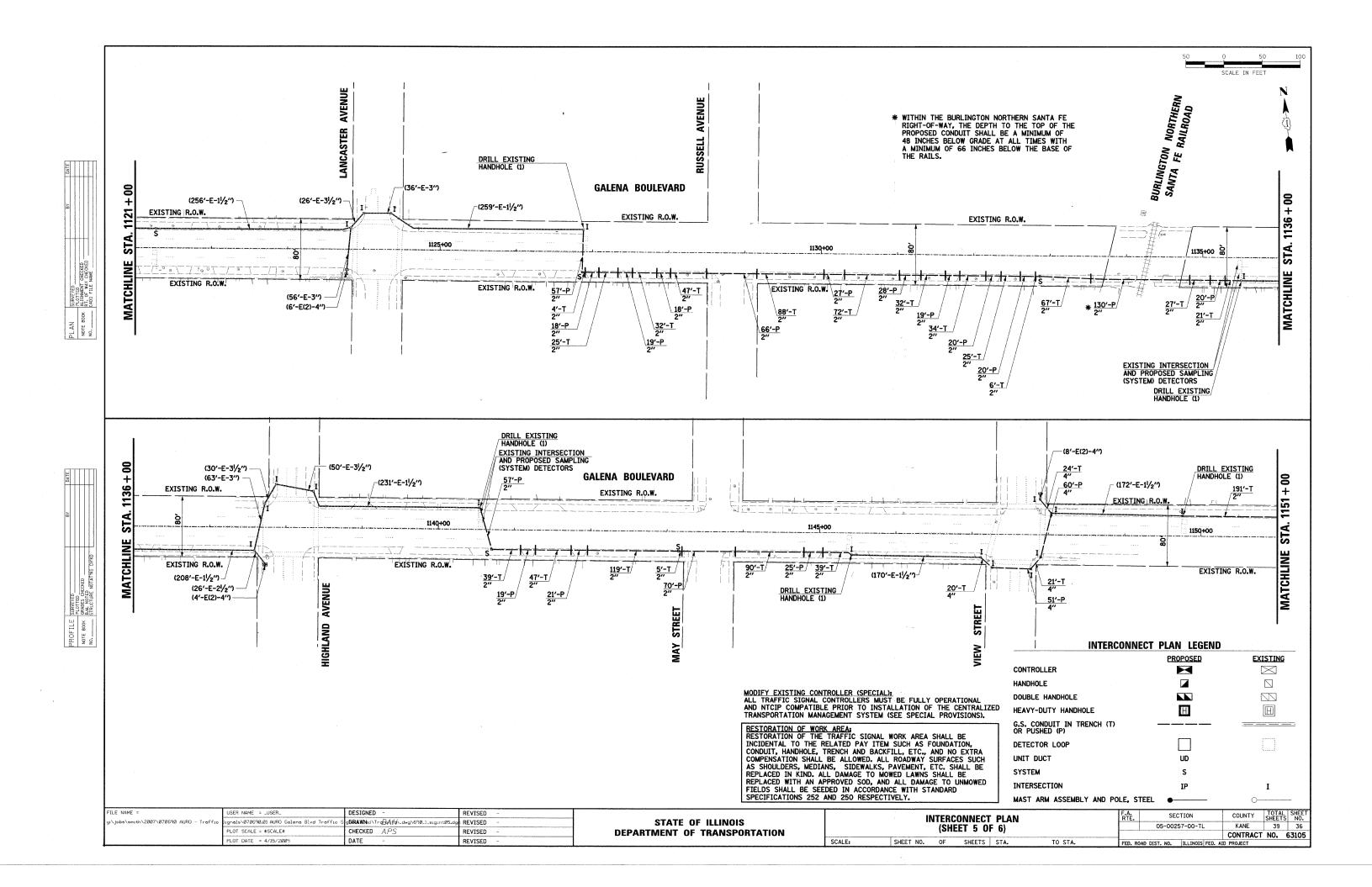
I

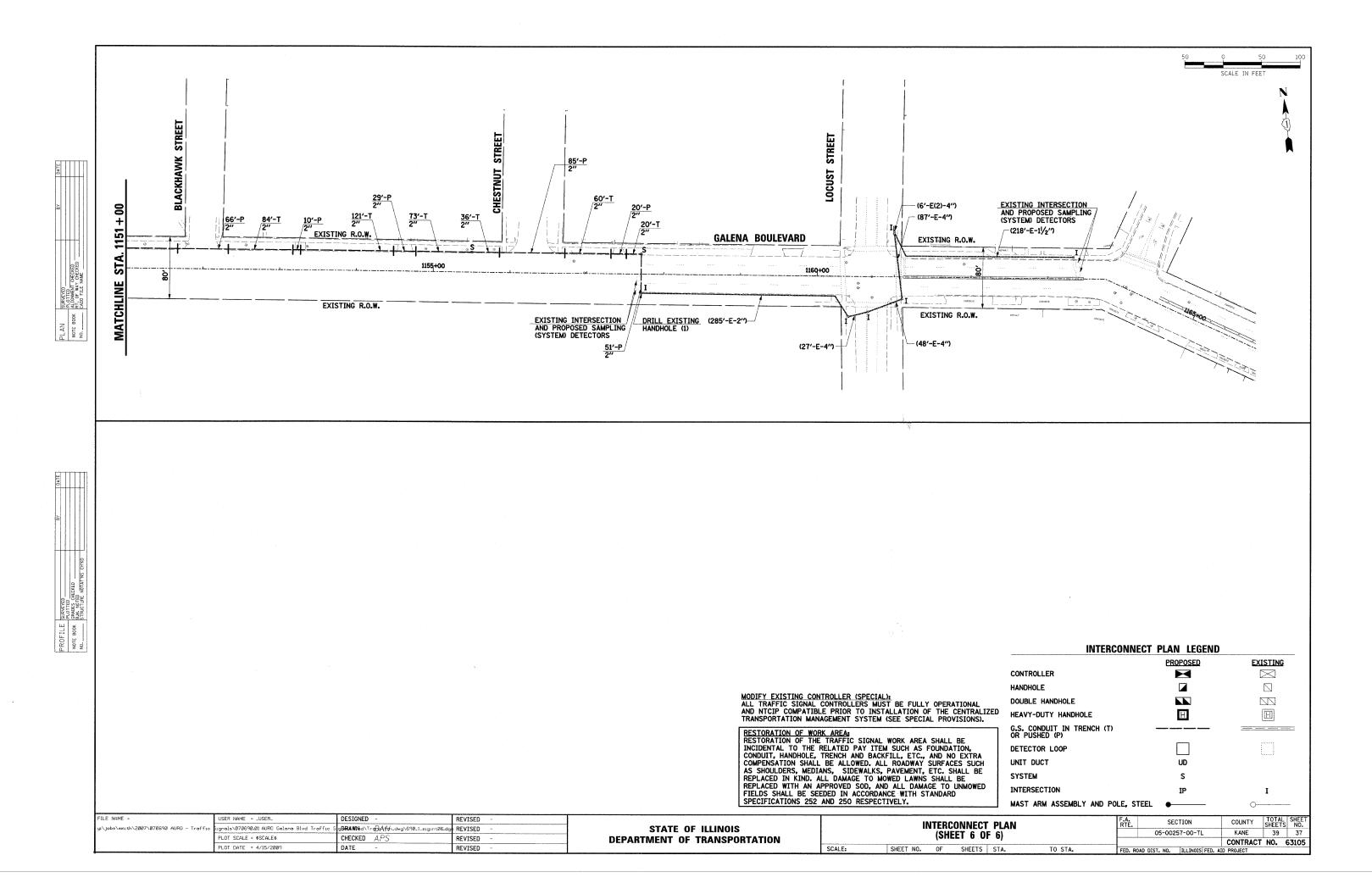
FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -		INTERCOMMENT DI ANI						F.A.	SECTION	N	COUNTY	TOTAL	SHEE
gt\jobs\smith\2007\070690 AURO - Traffic	ignals\070690.01 AURO Galena Blvd Traffic S	g <b>BRAWN</b> d\Traps4#h_dwg\690_1_sigint01.do	REVISED -	STATE OF ILLINOIS				INTERCONNECT PLAN						KANE 3		NO.
·	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION										ļ	03 00231 0	
	PLOT DATE = 4/15/2009	DATE -	REVISED -		SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLI	INOIS FED. AID E		110, 1	03100

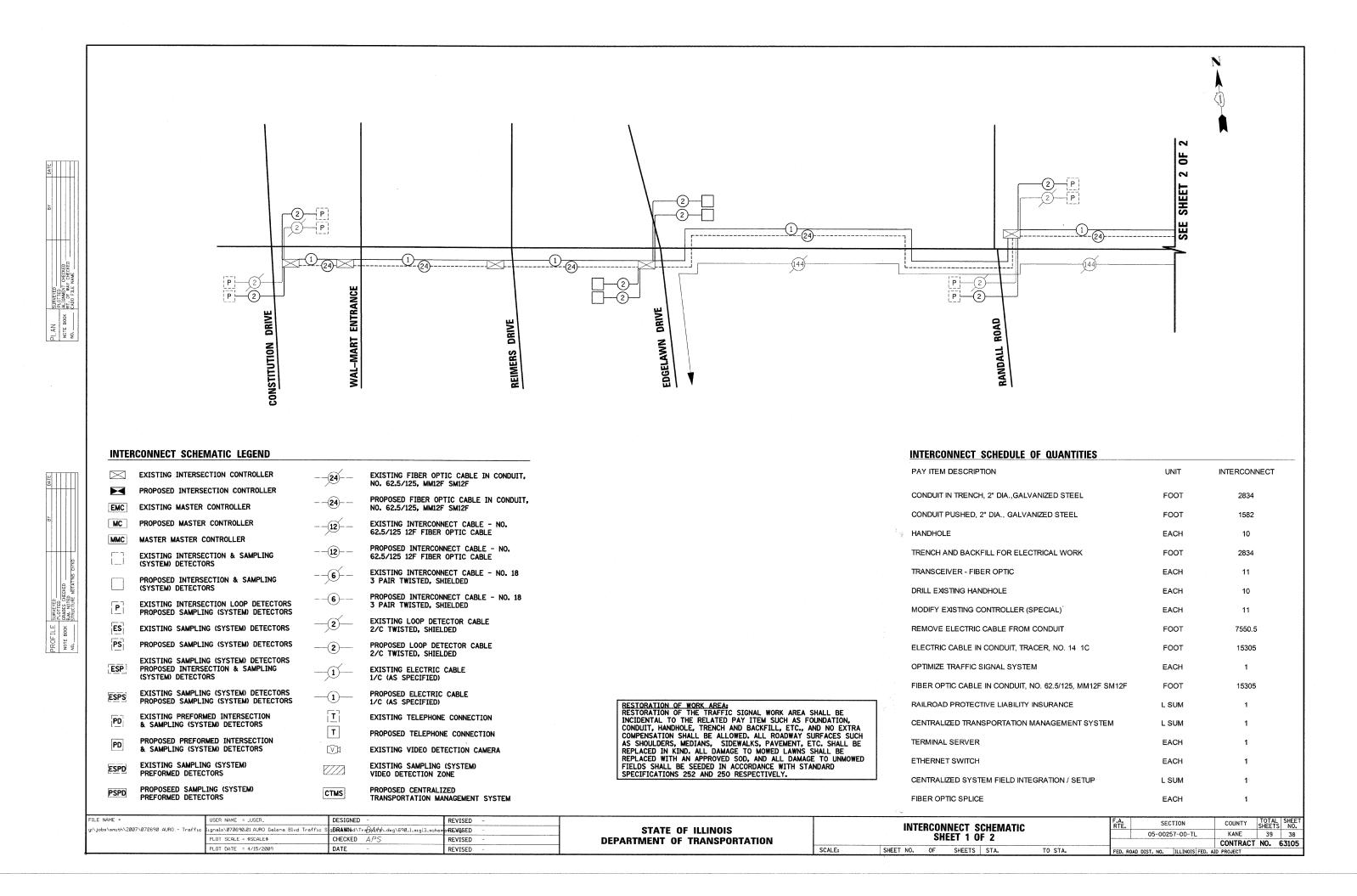


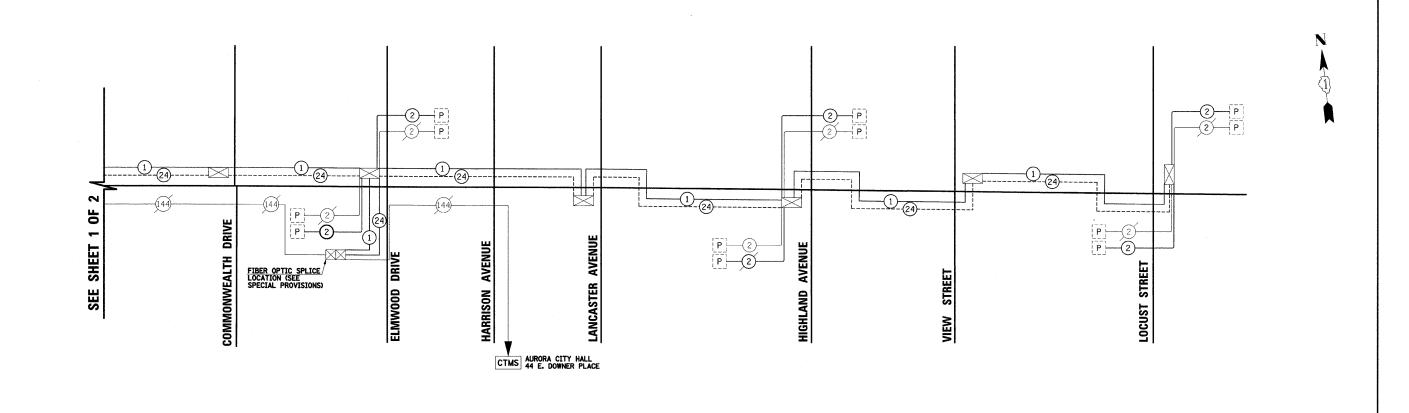
80+ **GALENA BOULEVARD** 142'-T 106'-P 195'-T 23'-T 2" 19'-P 31'-T 23'-P 2" 84'-T 82'-T EXISTING R.O.W. 1076 EXISTING R.O.W STA. 1065+00 1070+00 1075+00 MATCHLINE EXISTING R.O.W. EXISTING R.O.W. EXISTING R.O.W. AVENUE CITY OF AURORA, EXISTING FIBER OPTIC CABLE NETWORK (TYP.) AVENUE AVENUE AVENUE EVANSLAWN **GALENA BOULEVARD** EXISTING INTERSECTION
AND PROPOSED SAMPLING 20'-P -(6'-E(2)-4") (SYSTEM) DETECTORS -(262'-E-11/2'') /(299'-E-1<mark>/</mark>2") /(249'-E-1<mark>/2"</mark>) EXISTING R.O.W. STA. 1091 EXISTING R.O.W. 1085+00 1090+00 MATCHLINE MATCHLINE EXISTING R.O.W. EXISTING R.O.W. AVENUE GLENWOOD PLACE (295'-E-11/2")-(90'-E-3") CITY OF AURORA, EXISTING FIBER OPTIC CALUMET AVENUE EXISTING INTERSECTION
AND PROPOSED SAMPLING
(SYSTEM) DETECTORS (50'-E-21/2") CABLE NETWORK (TYP.) EVANSLAWN DRILL EXISTING HANDHOLE (1) INTERCONNECT PLAN LEGEND PROPOSED **EXISTING** CONTROLLER  $\geq$ HANDHOLE MODIFY EXISTING CONTROLLER (SPECIAL):
ALL TRAFFIC SIGNAL CONTROLLERS MUST BE FULLY OPERATIONAL
AND NTCIP COMPATIBLE PRIOR TO INSTALLATION OF THE CENTRALIZED
TRANSPORTATION MANAGEMENT SYSTEM (SEE SPECIAL PROVISIONS). DOUBLE HANDHOLE  $\square$ Н H HEAVY-DUTY HANDHOLE G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) 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 \_\_\_\_\_ DETECTOR LOOP UNIT DUCT UD S SYSTEM REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. INTERSECTION I MAST ARM ASSEMBLY AND POLE, STEEL ILE NAME = ISER NAME = LISER DESIGNED REVISED TOTAL SHEE SHEETS NO. SECTION COUNTY INTERCONNECT PLAN \.iobs\smith\2007\070690 AURO - Traffi nals/070690.01 AURO Galena Blvd Traffic **DRAWN**d\Trappo 4 # h\_dwg\690\_1\_sigint03.c REVISED STATE OF ILLINOIS KANE (SHEET 3 OF 6) 05-00257-00-TL 39 PLOT SCALE = \$SCALE\$ CHECKED APS REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 63105 PLOT DATE = 4/15/2009 SCALE: REVISED SHEET NO. OF SHEETS STA. TO STA.

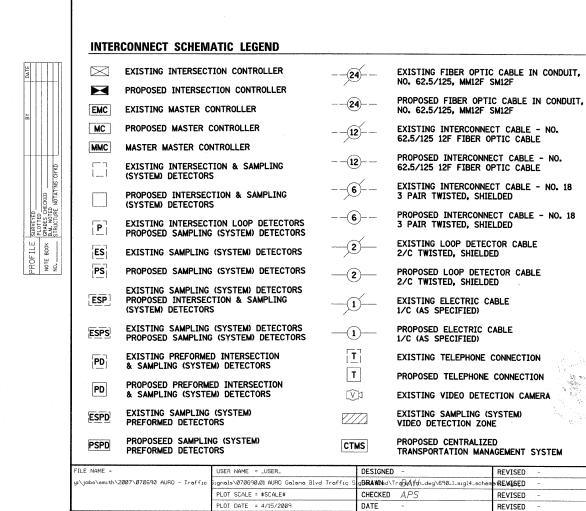














RESTORATION OF WORK AREA:
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE
INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION,
CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA
COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH
AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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		INTE	RCON		RTE.	SECTION	COUNTY	SHEETS	NO.			
DEPARTMENT OF TRANSPORTATION	SHEET 2 OF 2							05-00257-00-TL	CONTRACT	39 NO. 6	39 <b>3105</b>	
	SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.   ILLINOIS   FED. AID PROJECT					