STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1 HIGHWAY SAFETY IMPROVEMENT PROJECT F.A.U. 2503 IL. ROUTE 25 (BROADWAY AVE.) FROM INDIAN TRAIL ROAD TO BENTON STREET **SECTION 2009-002 TS**

> C-91-313-09 KANE CO.

PROJECT: HSIP. 002TS

- IL. RTE 25 (AURORA AVE.) AT INDIAN TRAIL ROAD RANGE 8 E 3rd P.M. IL. RTE 25 (BROADWAY AVE.) AT NEW YORK STREET AURORA IL. RTE 25 (BROADWAY AVE.) W How York ST AT GALENA BOULEVARD IL. RTE 25 (BROADWAY AVE.) AT DOWNER PLACE IL. RTE 25 (BROADWAY AVE.) AT BENTON STREET

LOCATION MAP

DATE: 2/11/2009

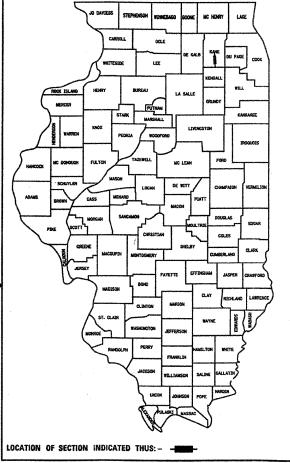
DATE: 2/11/2009 Expires 11-30-09

Applies To Sneets 1-7, 24-27, 33-34



COUNTY TOTAL SHEETS NO.

KANE 34 1 2009-002 TS 2503 ILLINOIS CONTRACT NO. 60F99 FED. ROAD DIST. NO.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SUBMITTED 7cb. 27 _____20_09 Dean M. O'Keele Del DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER March 27, 2009 March 27, 20 09

Christine M. Reed (10)
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS

CONTRACT NO. 60F99

1-800-892-0123

OR 811

OF.

BUREAU

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GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 (HEREINAFTER REFERED TO AS THE "STANDARD SPECIFICATIONS"); THE LATEST "SUPPLEMENTAL SPECIFICATIONS" AND "RECURRING SPECIAL PROVISIONS"; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2. ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- 3. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) AT LEAST 10 DAYS PRIOR TO CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. ALL UTILITIES MUST BE NOTIFIED AND STAKED PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.
- 5. THE CONTRACTOR IS REQUIRED TO ATTEND AN ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) PRECONSTRUCT ION MEETING AND SHALL INFORM THE IDOT TRAFFIC ENGINEER BEFORE WORK COMMENCES.
- 6. THE CONTRACTOR SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING SAFE AND HEALTHFUL CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 9. THE TRAFFIC CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.
- 10. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND 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 THE STANDARD SPECIFICATIONS 252 AND 250, RESPECTIVELY.
- 11. CONTROLLER CABINETS SHALL BE PLACED SO THAT a) THE DOORS OPEN AWAY FROM THE CURB OR TRAVEL WAY., b) AND THE TRAFFIC MOVEMENTS AT THE INTERSECTION ARE VISIBLE FROM THE CONTROLLER.

CEMCON, Ltd.

Consulting Engineers, Lend Surveyors & Planners
2280 White Oat Circle, Suite 100

Aurora, Illinois 60504-9675
Phi 630.868.2100 Faxi 530.862.2199
E-Wall: cadd@cemcon.com Wabsite: www.cemcon.com

F.A.U.

RTE. SECTION COUNTY TOTAL SHEETS NO.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
IL ROUTE 25 (BROADWAY AVE.)

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

			51.5147E 51.CITY	100% CITY	901.FEO. 57.STATE 57.CITY	1004.CITY	51. STATE 51.CITY	1001.CITY	51.STATE 51.CITY	100%. CITY	51. STATE 51. CITY
PAY SUMMARY OF TRAFFIC SIGNAL QUANTITIES		URBAN		A CONTRACTOR OF THE CONTRACTOR		C	ONSTRUCTION CO	DDE TYPE Y031-1F	7		
CODE		TOTAL	IL RTE 25 @BE	NTON STREET	IL RTE 25 @ D	OWNER PLACE	IL RTE 25 @ G	ALENA BLVD	IL RTE 25 @ 1	IEW YORK ST	IL RTE 25 @ INDIAN TRA
NUMBER ITEM	UNIT	QUANTITY	IDOT	CITY OF AURORA	IDOT	CITY OF AURORA	IDOT	CITY OF AURORA	IDOT	CITY OF AURORA	IDOT
				7.61.61.7		AGRETOR		7,0,1,0,10,1			
20800150 TRENCH BACKFILL 42400500 PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL	CU YD SQ FT	18.5 403	0.5 62		4.4 80		4.5 94		9.1 167		
44000600 SIDEWALK REMOVAL	SQFT	403	62		80		94		167		
59300100 CONTROLLED LOW-STRENGTH MATERIAL 67000400 ENGINEER'S FIELD OFFICE, TYPE A	CU YD	104.4	14.5		21.1		27		41.8		
67100100 MOBILIZATION	CAL MO L SUM	4	0.8		0.8		0.8 0.2		0.8		0.8
70102620 TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.2		0.2		0.2		0.2		0.2
70102622 TRAFFIC CONTROL AND PROTECTION, STANDARD 701502 70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM L SUM	1 1	0.2		0.2		0.2 0.2		0.2 0.2		0.2 0.2
70102640 TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.2		0.2		0.2		0.2		0.2
72000100 SIGN PANEL - TYPE 1 72400710 RELOCATE SIGN PANEL - TYPE 1	SQ FT	104.8	26.2		26.2		26.2		26.2		
72400710 THEOCATE SIGN PANEL: TYPE 1 78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	SQ FT FOOT	10 2241.5	583.5		522		608		528		10
78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	400	112		100		98		90		
78300100 PAVEMENT MARKING REMOVAL 80400105 ELECTRICAL SERVICE INSTALLATION, SPECIAL	SQFT	1508	400		354		396		358		
80501000 SERVICE INSTALLATION (SPECIAL)	EACH EACH	4	1 1		1 1		1		1 1		
81000600 CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	534	60		20		42		412		
81000700 CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL 81001000 CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT FOOT	208 158	52		63		27		66		
81018500 CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	343	38 122		51 177		30 0		39 44		
81018900 CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	660	174		145		182		159		
81100600 CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL 81100700 CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., GALVANIZED STEEL	FOOT FOOT	20	20		27		20				
81101000 CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL	FOOT	8	14		t		3		5		
81400100 HANDHOLE	EACH	12	3		3		3		3		
81400300 DOUBLE HANDHOLE 81702110 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	EACH FOOT	1777.5	1 495		301		1 448.5		533		
81900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	877	144		129		93		511		
82102310 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT 82500510 LIGHTING CONTROLLER TYPE CB-RCS 60 AMP - 240 VOLT	EACH EACH	11	3		2		3		3		
82500200 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	3	1 1		1 1		1		1		
85700205 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1									1
85700300 FULL-ACTUATED CONTROLLER AND TYPE V CABINET 87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	EACH FOOT	1 1876	462		455	-	481		1 478		
87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	7972.5	2115		1720.5		1927		2210		
87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6870.5	1862		1427.5		1651		1930		
87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C 87301615 ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 6 PAIR	FOOT FOOT	974 1801	199.5 465		204.5 414.5		345.5 418.5		224.5 503		
87301805 ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	1025	234		229		74		488		
87502480 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	6	1 1		1		1		2		1
87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. 87704040 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT. (SPECIAL)	EACH EACH	6	1		11		1		1		2
87704050 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)	EACH	5	1		1		1		2		
87704060 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL) 87704080 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT. (SPECIAL)	EACH EACH	2	1		1				1		
87704090 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	 	1			 					
87704110 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL) 87800100 CONCRETE FOUNDATION, TYPE A	EACH	1					1				
87800110 CONCRETE FOUNDATION, TYPE A 87800110 CONCRETE FOUNDATION, TYPE A(SPECIAL)	FOOT FOOT	32 21	8		8		4 21		12		<u> </u>
87800150 CONCRETE FOUNDATION, TYPE C	FOOT	16	4		4		4		4		
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER 88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	FOOT	120.5	37		20		33.5		30		
S88330050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAS PARM MOUNTED	EACH EACH	21 10	5 2		4 2		5		5 4		1
88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1					·				1
88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED 88030210 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6	1 1		1		1		1		2
88030240 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH EACH	3	I		<u> </u>		2		1		2
88030330 SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	3	1 1		1		1				
88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER 88200110 TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH EACH	16 26	4 6		4 5		4 5		<u>4</u> 6		4
88700200 LIGHT DETECTOR	EACH	12		3		3	3	3		3	
88700300 LIGHT DETECTOR AMPLIFIER 88800100 PEDESTRIAN PUSH-BUTTON	EACH	4		1		1		1		1	PARK WILLIAM STATE OF THE STATE
89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH EACH	16	4		4		4		<u>4</u> 1		
89100400 ILLUMINATED SIGN, LED	EACH	1 1					<u>'</u>				1
89500100 RELOCATE EXISTING SIGNAL HEAD 89502300 REMOVE ELECTRIC CABLE FROM CONDUIT	EACH FOOT	1 9438	2398.5		4075		2527		2497.5		1
89502375 REMOVE ELECTRIC CABLE FROM CONDUIT 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	FOOT EACH	9438	2398.5		1975 1	 	2567 1		2497.5 1		1
89502380 REMOVE EXISTING HANDHOLE	EACH	17	4		4		5		4		
89502385 REMOVE EXISTING CONCRETE FOUNDATION X0323412 REMOVE EXISTING SERVICE INSTALLATION	EACH EACH	20	6		5		3		6		1
X0325705 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1 1	<u> </u>		 	 					1
X0325737 TEMPORARY TRAFFIC SIGNAL TIMING:	EACH	4	1		1		1		1		
X8050015 SERVICE INSTALLATION-POLE MOUNT X8510300 PAINT TRAFFIC SIGNAL POST	EACH EACH	9		2				2		3	1
X8730027 ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	2150	433.5	2	424.5	2	418.5		579.5	3	294
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CU YD	4	1		1		2				
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EACH FOOT	4 2278	1	655	1	460.5	1	475.5	1	684	
XX005937 LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	11	 	3		463.5 2		3		3	
X862.002.0 UNINTERRUPTABLE POWER SUPPLY	EACH	5	11	~~~	1		1		11		1
20034100 MASONRY WALL CONSTRUCTION 89502381 REMOVE EXISTING CONCRETE FOUNDATION, SPECIAL	SQ FT EACH	551 6	113		42		181 4		215		
		<u> </u>	<u> </u>		<u> </u>		7				
* 100% COST TO THE CITY OF AURORA	7	1									
** PARTIAL COST TO THE CITY OF AURORA AS PER IDOT POLICY	AND THE RESIDENCE OF THE PARTY	The second secon	The state of the s	The second secon	17 cm - worker of a confirmation of the property of the second of the se	and the same of th		and the second s	CONTRACTOR OF STREET		The same is a second of the same of the sa

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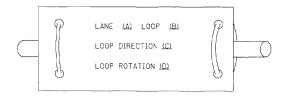
CEMCON, Léd.

Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circls, SUIE 100
An 1530, 682, 2199
E-Wall: caddocemcon.com Websile: www.cemcon.com FILE NAME = USER NAME = JGC DESIGNED - KK REVISED -SUMMARY OF QUANTITIES STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION \MICROST\352623\ Ø3-SUMMARY.DGN DRAWN - JGC REVISED -IL. ROUTE 25 (BROADWAY AVE.) PLOT SCALE = 1'=20' CHECKED - BPT REVISED -PLOT DATE = 02-16-09 DATE - 01-23-09 SCALE: N.T.S. SHEET NO. OF SHEETS STA. REVISED TO STA.

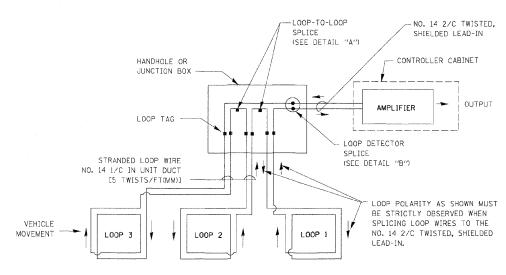
LOOP DETECTOR NOTES

- 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 WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 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.



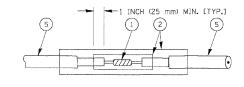
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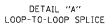
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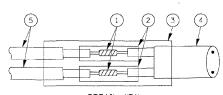
COUNTY

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.



ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

STANDARD TRAFFIC SIGNAL

DESIGN DETAILS

SCALE: VERT. NONE HORIZ. DATE 10/18/2002

DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 1 OF 4

REVISION DATE OLYGIZOS

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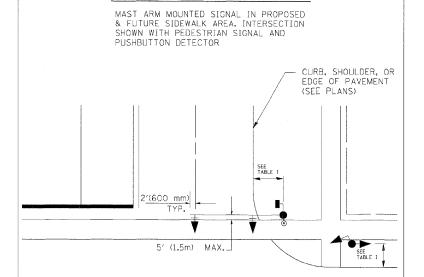
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	PLOT SCALE = 1"=20"	CHECKED	-	BPT	REVISED -
	PLOT DATE = 01-23-09	DATE	-	01-23-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
IL. ROUTE 25 (BROADWAY AVE.)

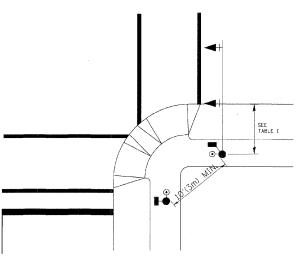
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F.A.U. RTE.	SE	CTION			COUNTY	TOTAL	SHE
2503	2009	-002 TS			KANE	34	4
				T	CONTRACT	NO. 6	OF9
FFD. ROAD	DIST. NO.	TLI TNOTS	FFD.	ATD	PROJECT		



TRAFFIC SIGNAL MAST ARM AND POST

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:

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 PUSHBUTTONS. 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
- 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 CRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.

REVISIONS NAME

TO STA.

NAME DATE
BUREAU OF TRAFFIC 1/01/0

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

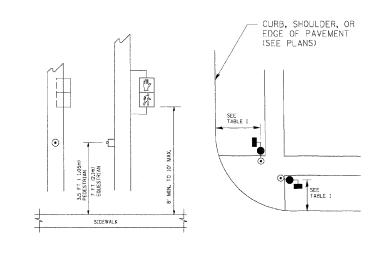


TABLE I

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(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

PREPARED BY CEMCON, Ltd.
Consulting Engineers. Land Surveyors & Planners 2280 White Once 100 Consulting Engineers 200 Consulting En

SCALE: N.T.S. SHEET NO. OF SHEETS STA.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE DATE 10/18/2002

DESIGNED BY: DAD CHECKED BY: DAZ SHEET 2 OF 4

TS05 REVISION DATE: 01/01/02

DRAWN BY- RWP

COUNTY TOTAL SHEET NO.

TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SECTION

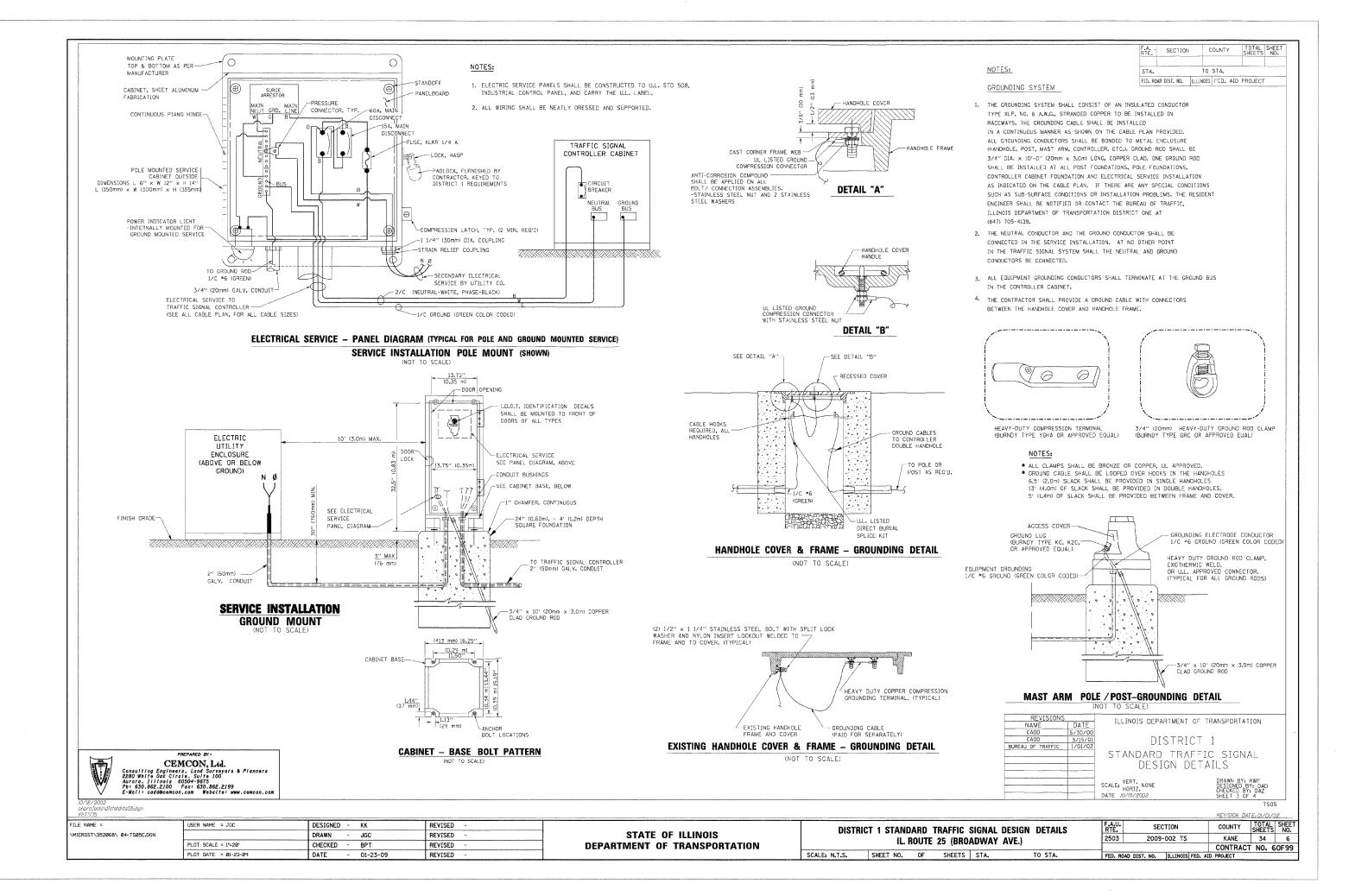
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\MICROST\352Ø68\	Ø4-TSØ5B.DGN

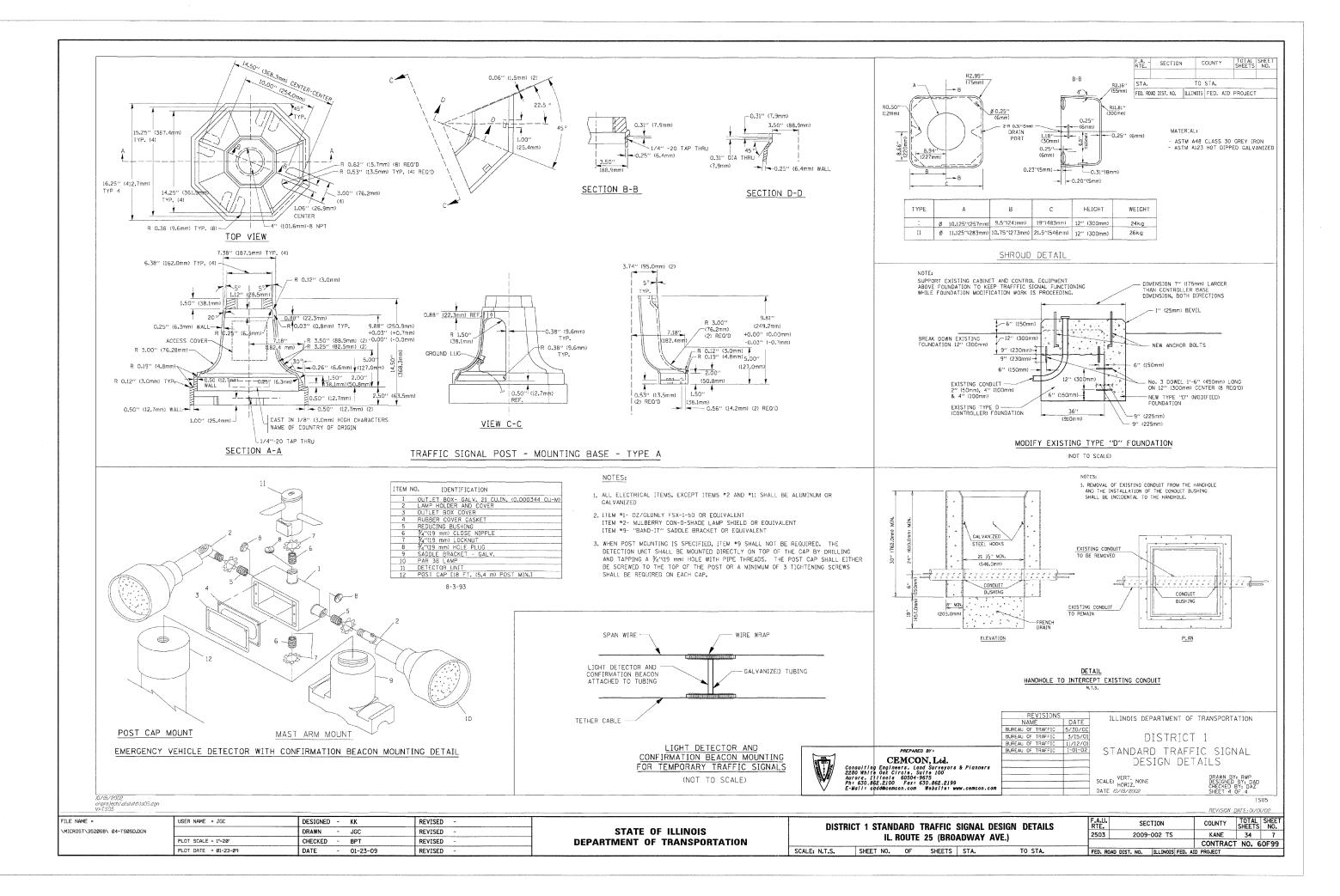
10/18/2002 c:\projects\diststd\is05 V!*T S05	dgn			
······································	USER NAME = JGC	DESIGNED - KK	REVISED -	
N Ø4-TSØ5B.DGN		DRAWN - JGC	REVISED ~	
	PLOT SCALE = 1"=20"	CHECKED - BPT	REVISED -	
	PLOT DATE = Ø1-23-Ø9	DATE - 01-23-09	REVISED -	

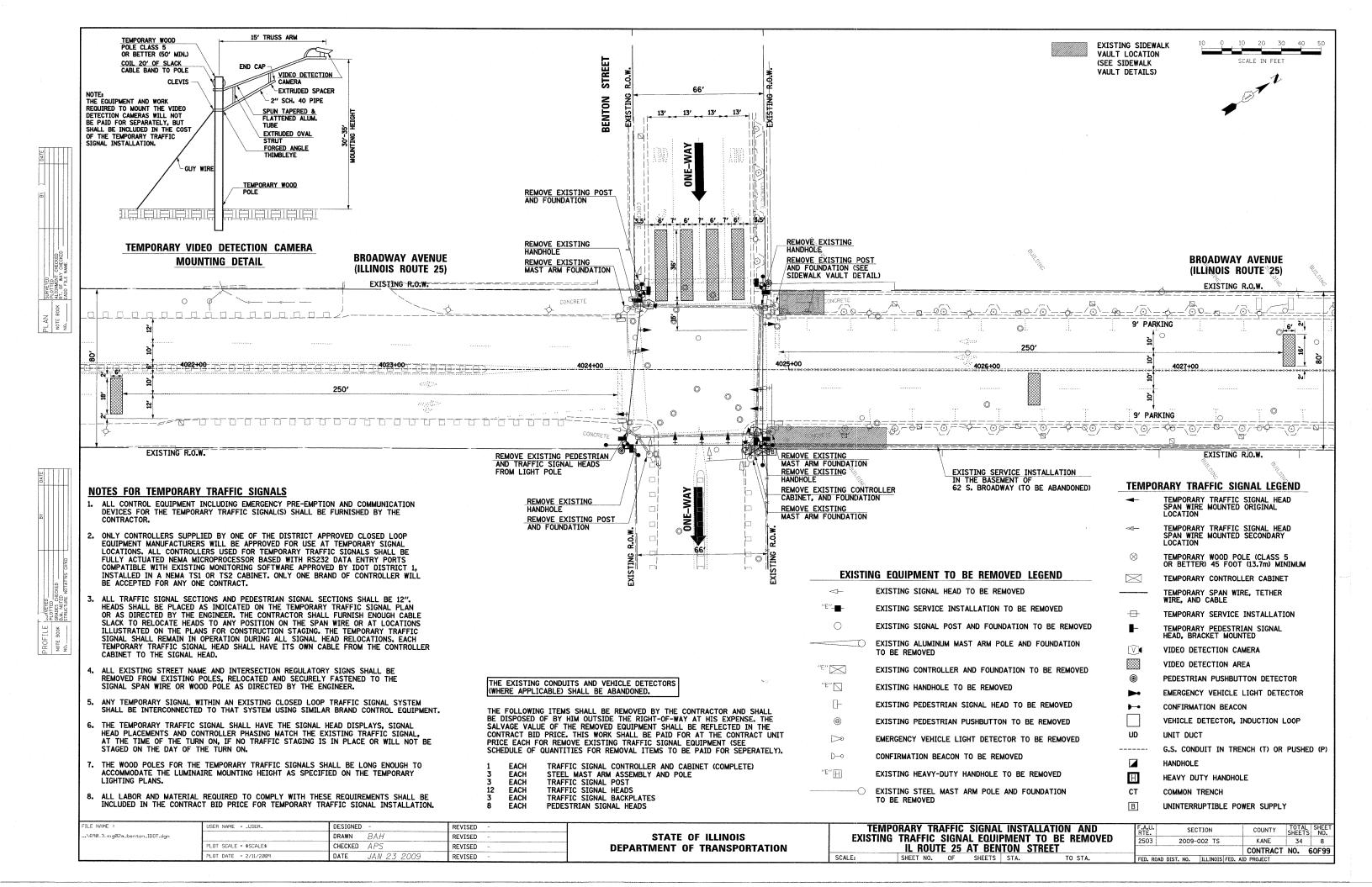
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS IL. ROUTE 25 (BROADWAY AVE.)

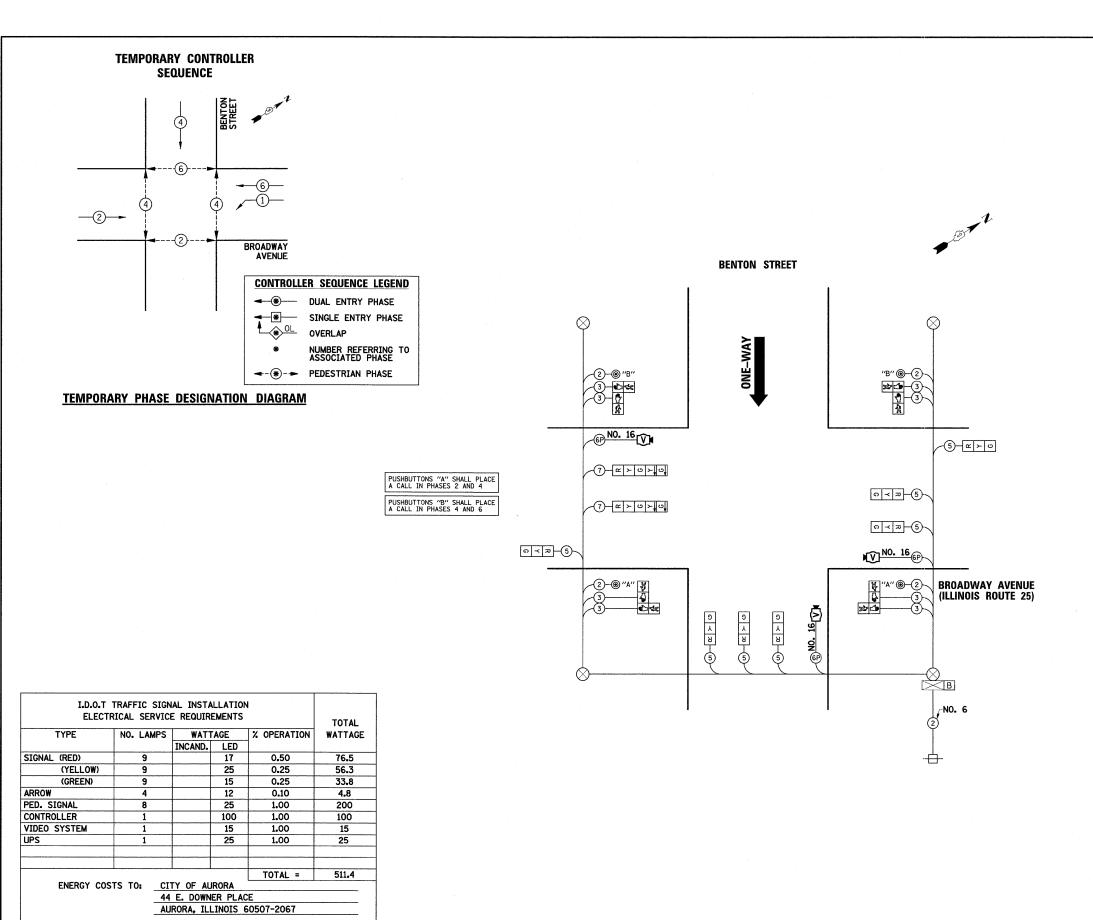
COUNTY TOTAL SHEET NO.

KANE 34 5 SECTION 2503 2009-002 TS CONTRACT NO. 60F99 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT









TEMPORARY CABLE DIAGRAM LEGEND

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

TEMPORARY CONTROLLER CABINET

 \Box TEMPORARY SERVICE INSTALLATION

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

EMERGENCY VEHICLE LIGHT DETECTOR

CONFIRMATION BEACON

(5)

V

VEHICLE DETECTOR, INDUCTION LOOP

0 PEDESTRIAN PUSHBUTTON DETECTOR

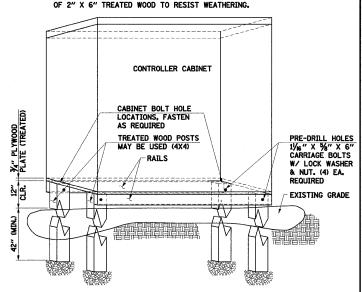
12" (300mm) PEDESTRIAN SIGNAL SECTION

VIDEO DETECTION CAMERA

В UNINTERRUPTABLE POWER SUPPLY

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

(NOT TO SCALE)

TEMPORARY TRAFFIC SIGNAL CABLE PLAN AND PHASE DESIGNATION DIAGRAM

TOTAL SHEET NO. 34 9 SECTION COUNTY KANE 2503 2009-002 TS CONTRACT NO. 60F99

..\690_3_ts1g02c_benton_ID0T.dgn

ENERGY SUPPLY CONTACT:

PHONE:

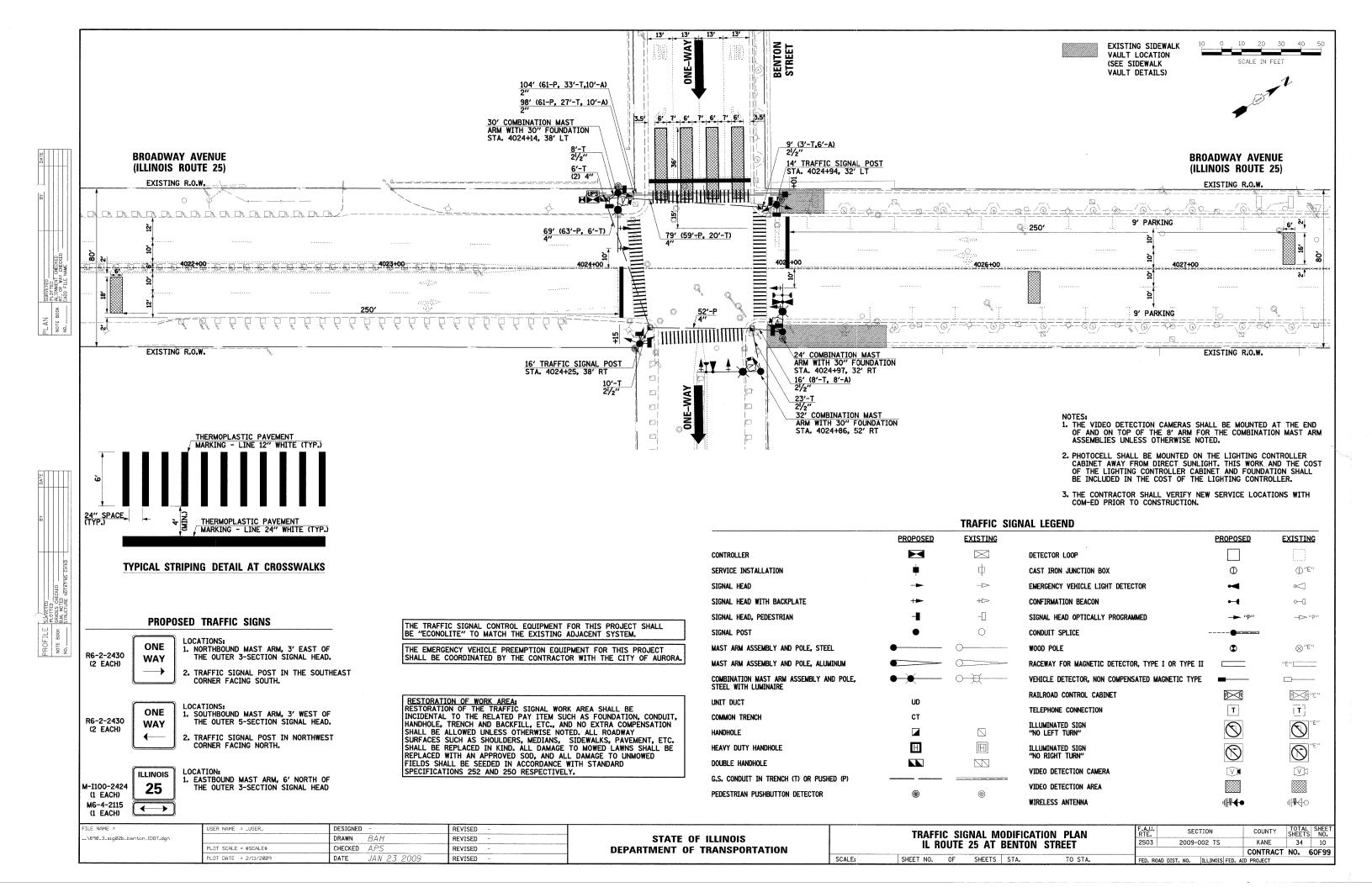
MARK SCHERIBEL (630) 723-2128

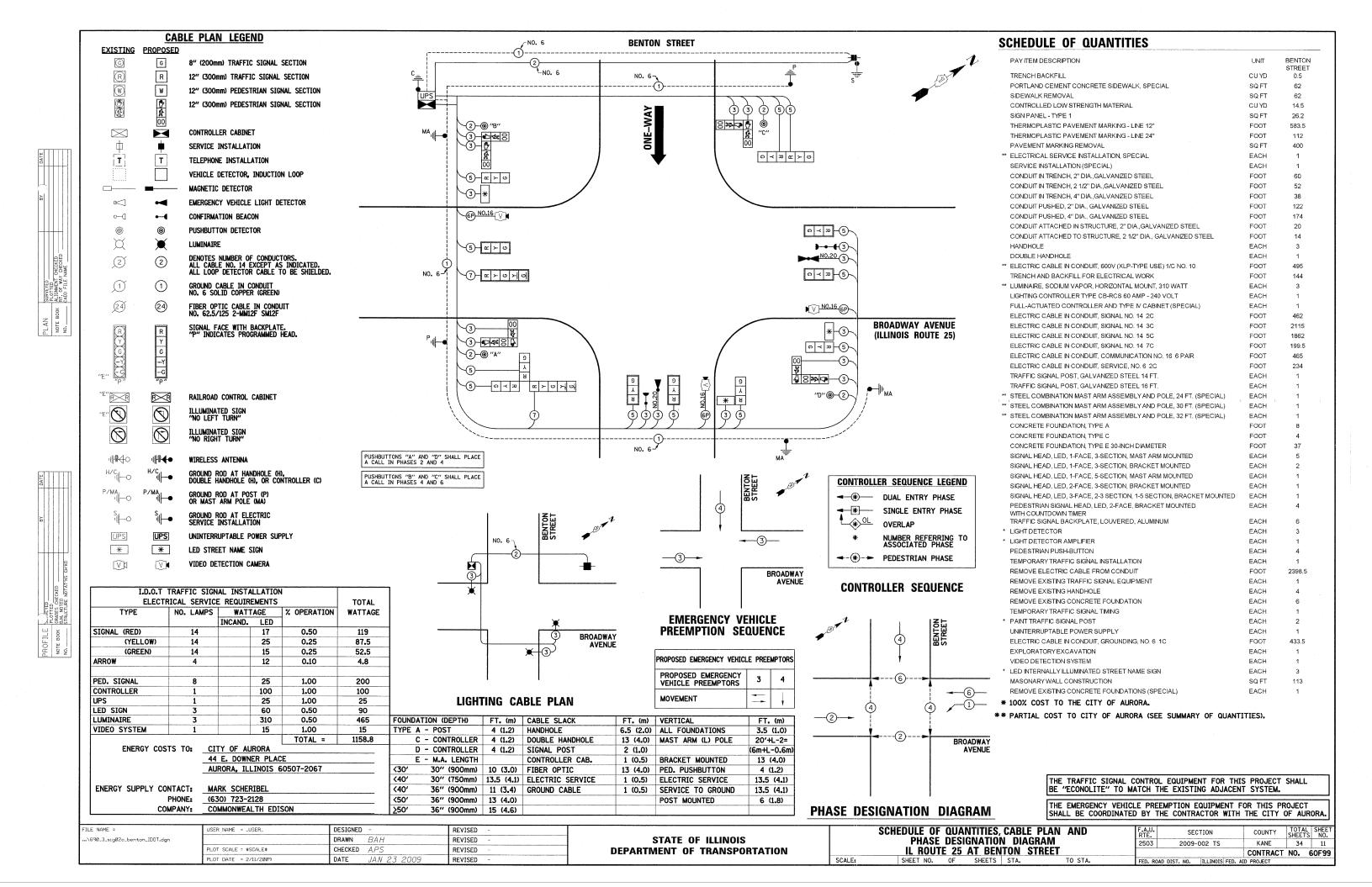
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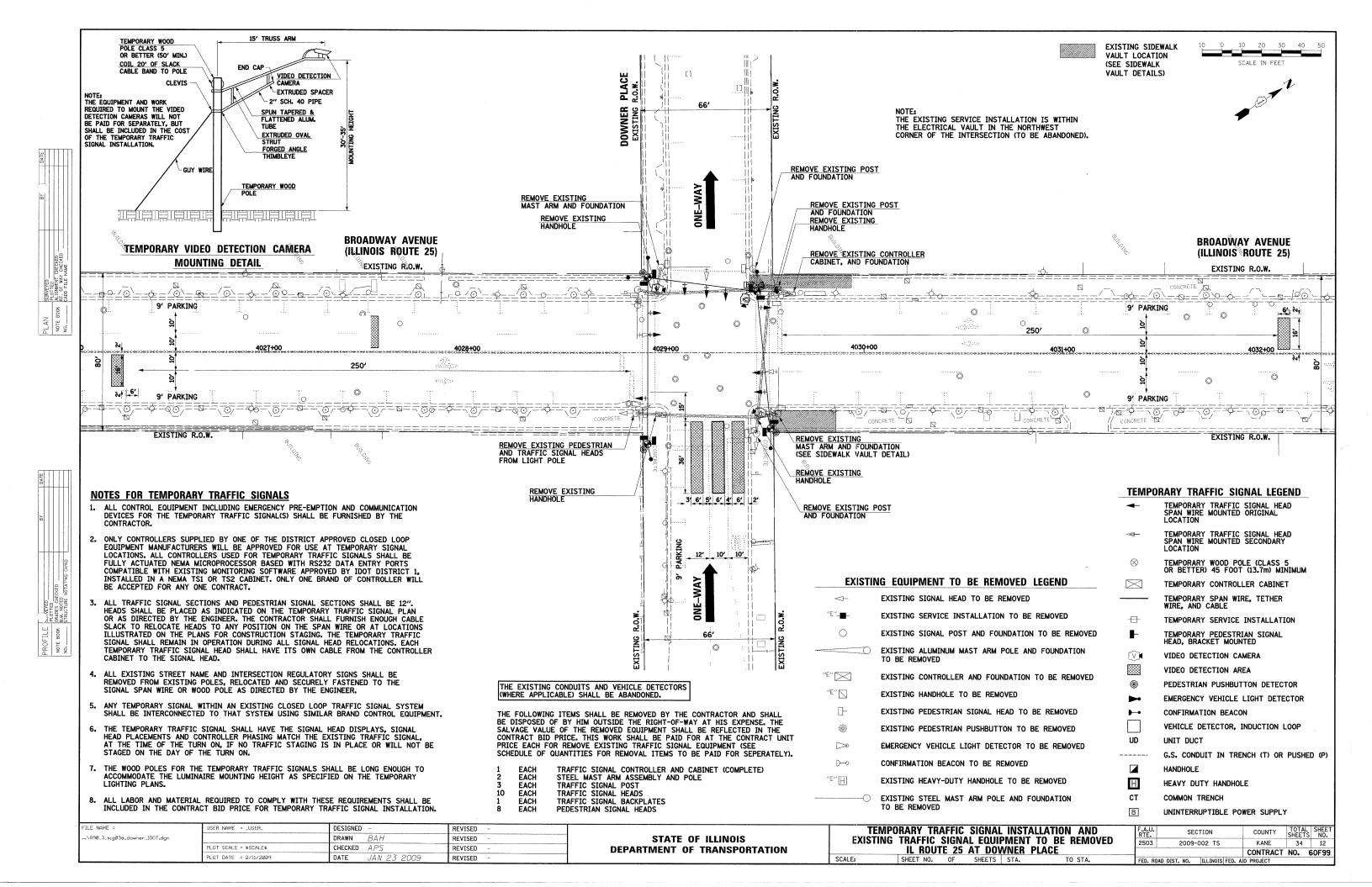
DESIGNED REVISED DRAWN REVISED BAh CHECKED APS PLOT SCALE = #SCALE# REVISED PLOT DATE = 2/11/2009 DATE JAN 23 2009 REVISED

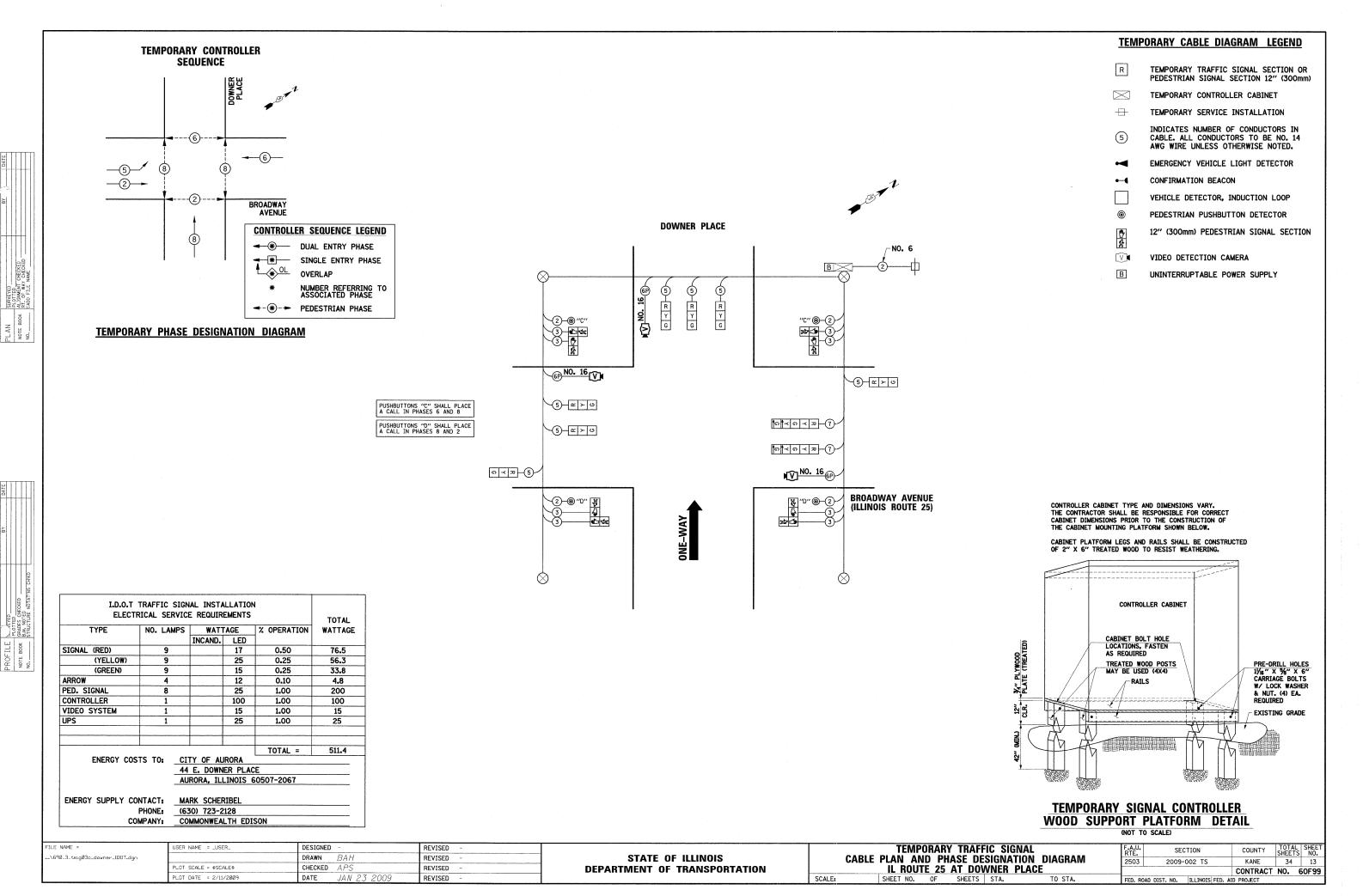
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

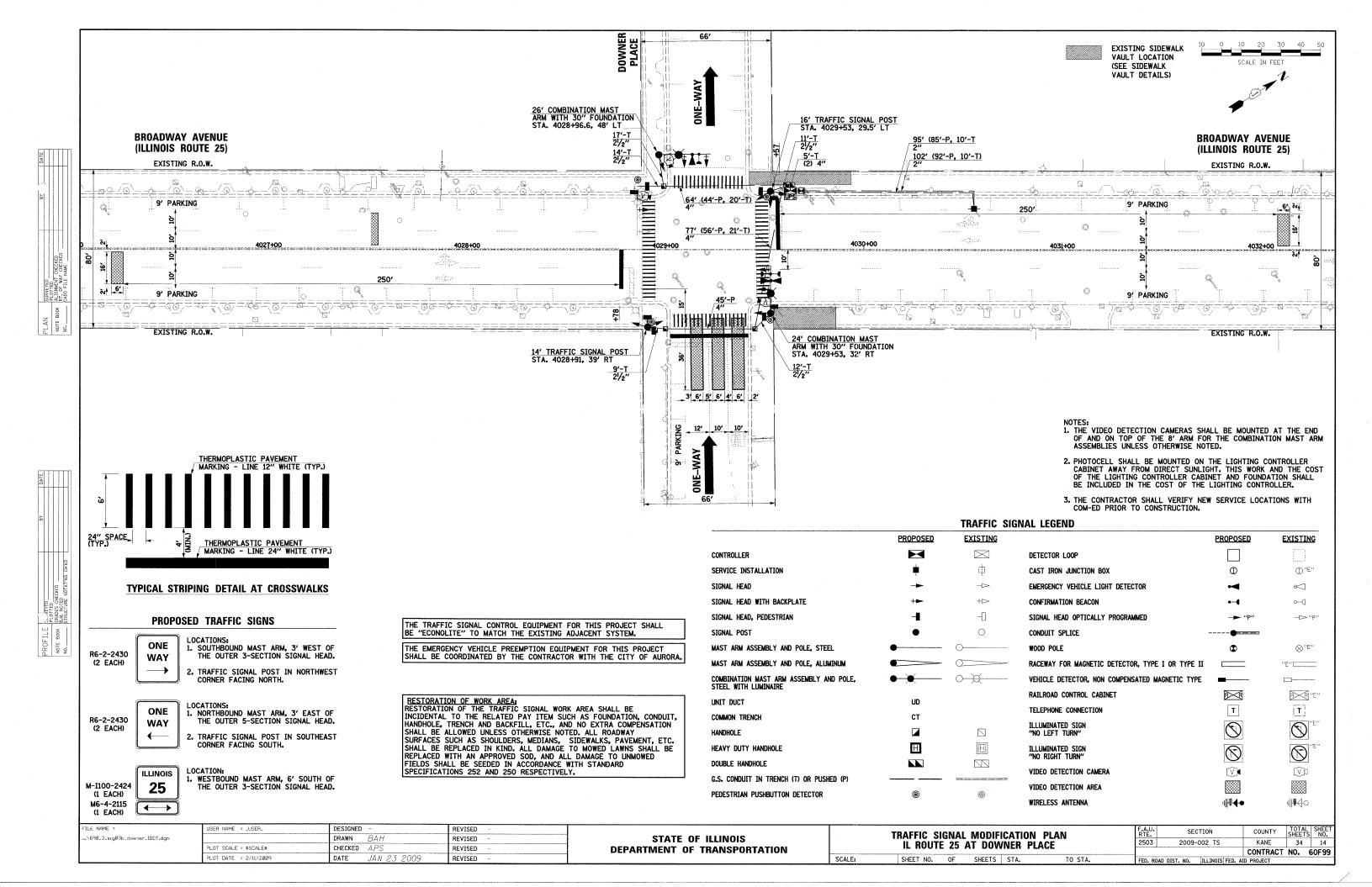
IL ROUTE 25 AT BENTON STREET
SHEET NO. OF SHEETS STA.

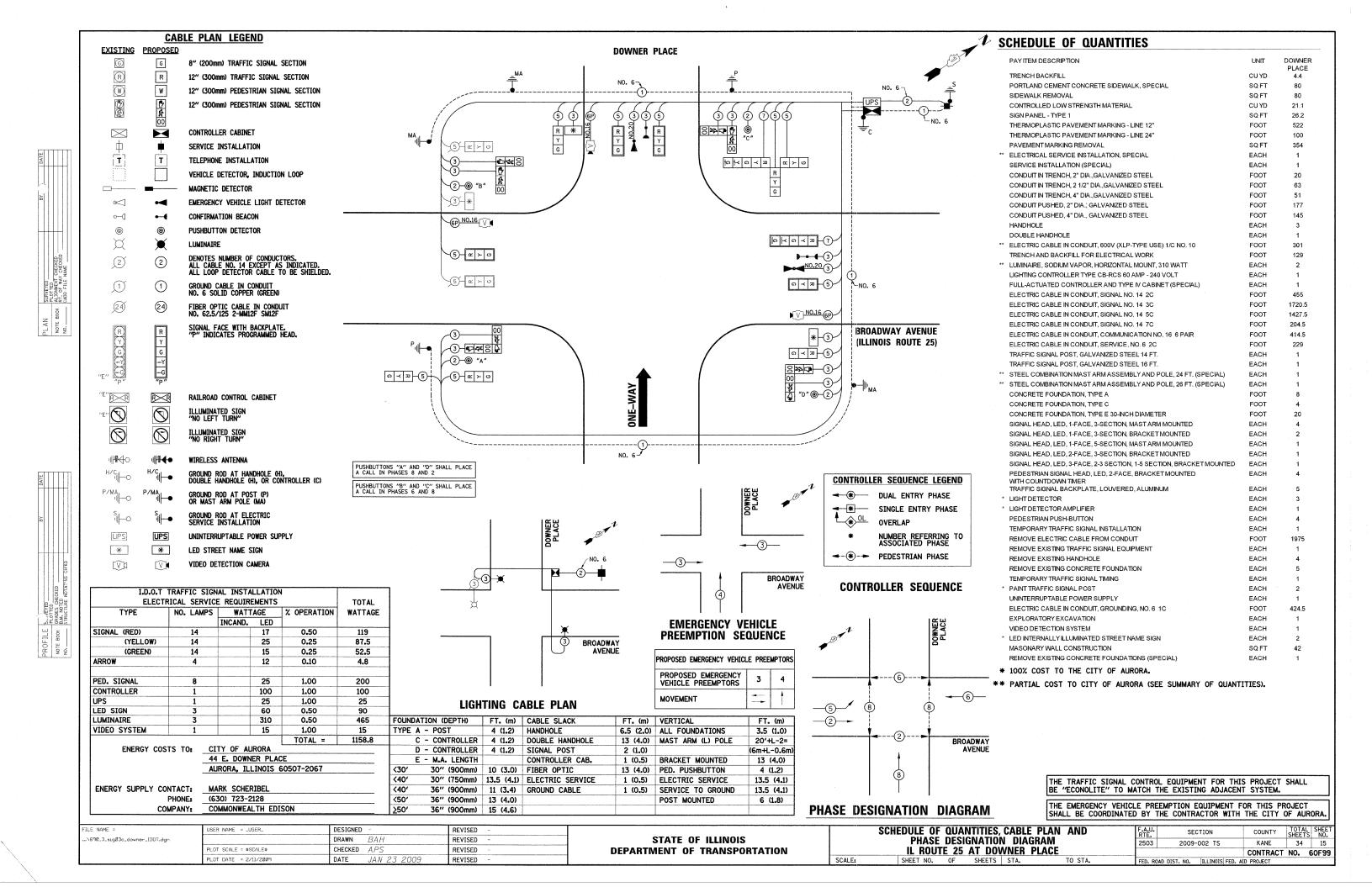


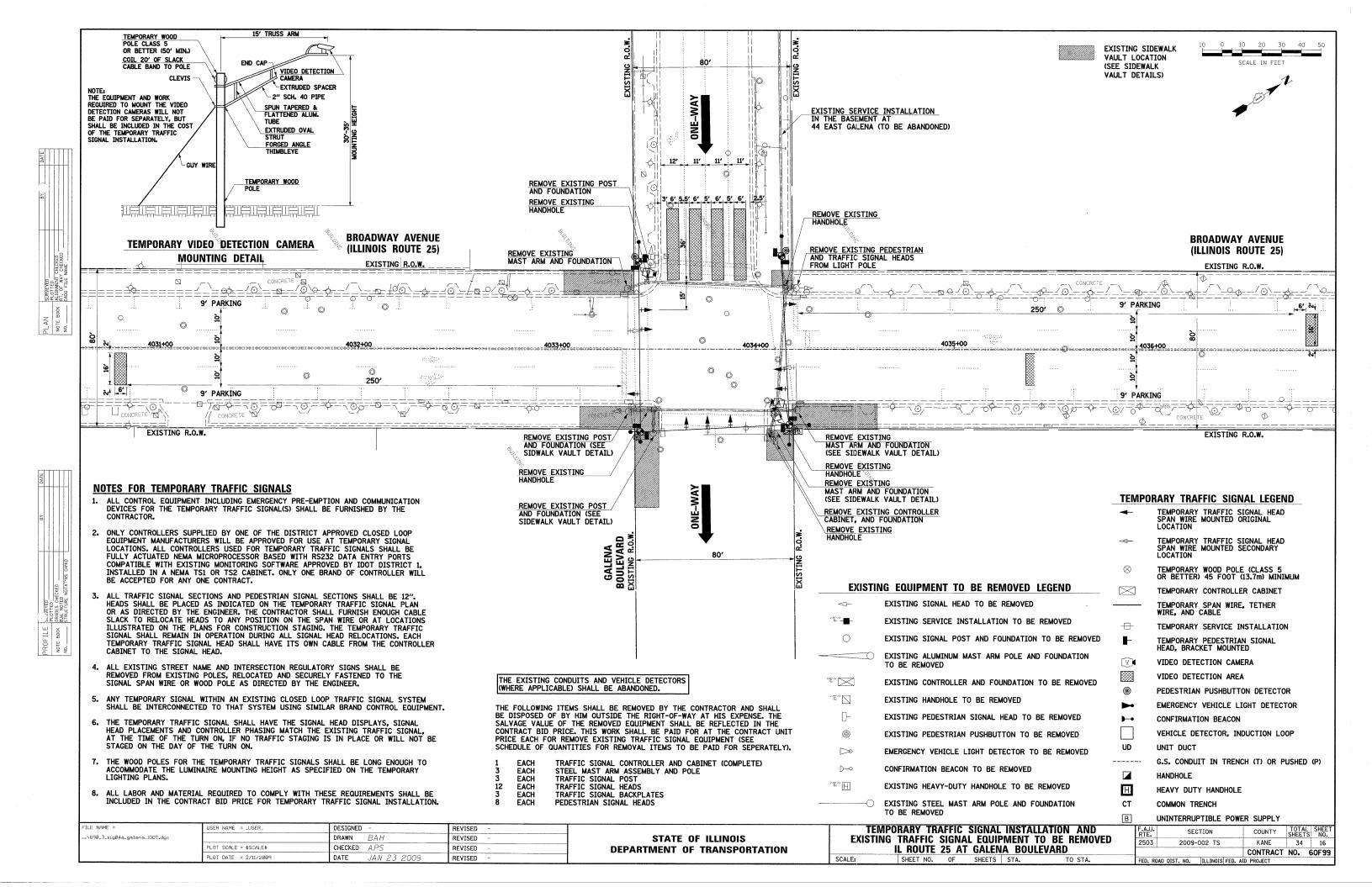


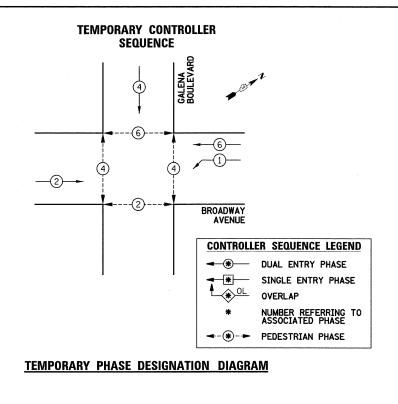


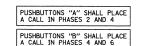


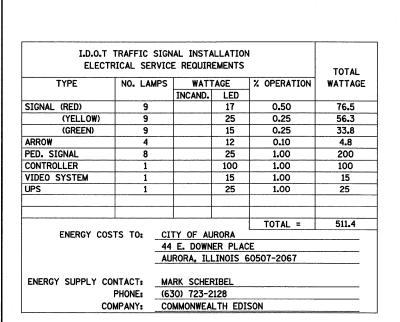


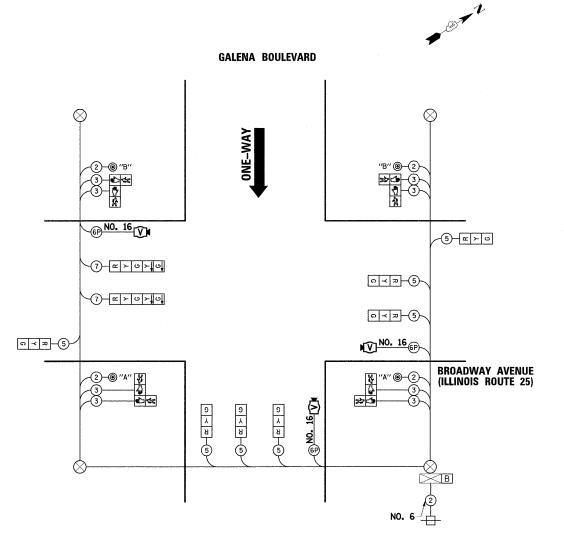












TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- TEMPORARY CONTROLLER CABINET
 - TEMPORARY SERVICE INSTALLATION
 - INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NO. 14 AWG WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- ─ CONFIRMATION BEACON

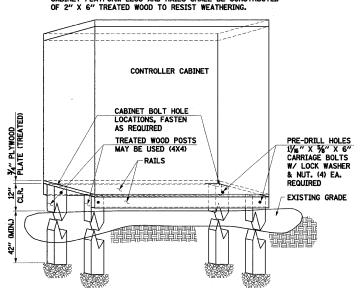
 \Box

(5)

- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- **VIOLEO DETECTION CAMERA**
- B UNINTERRUPTABLE POWER SUPPLY

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.

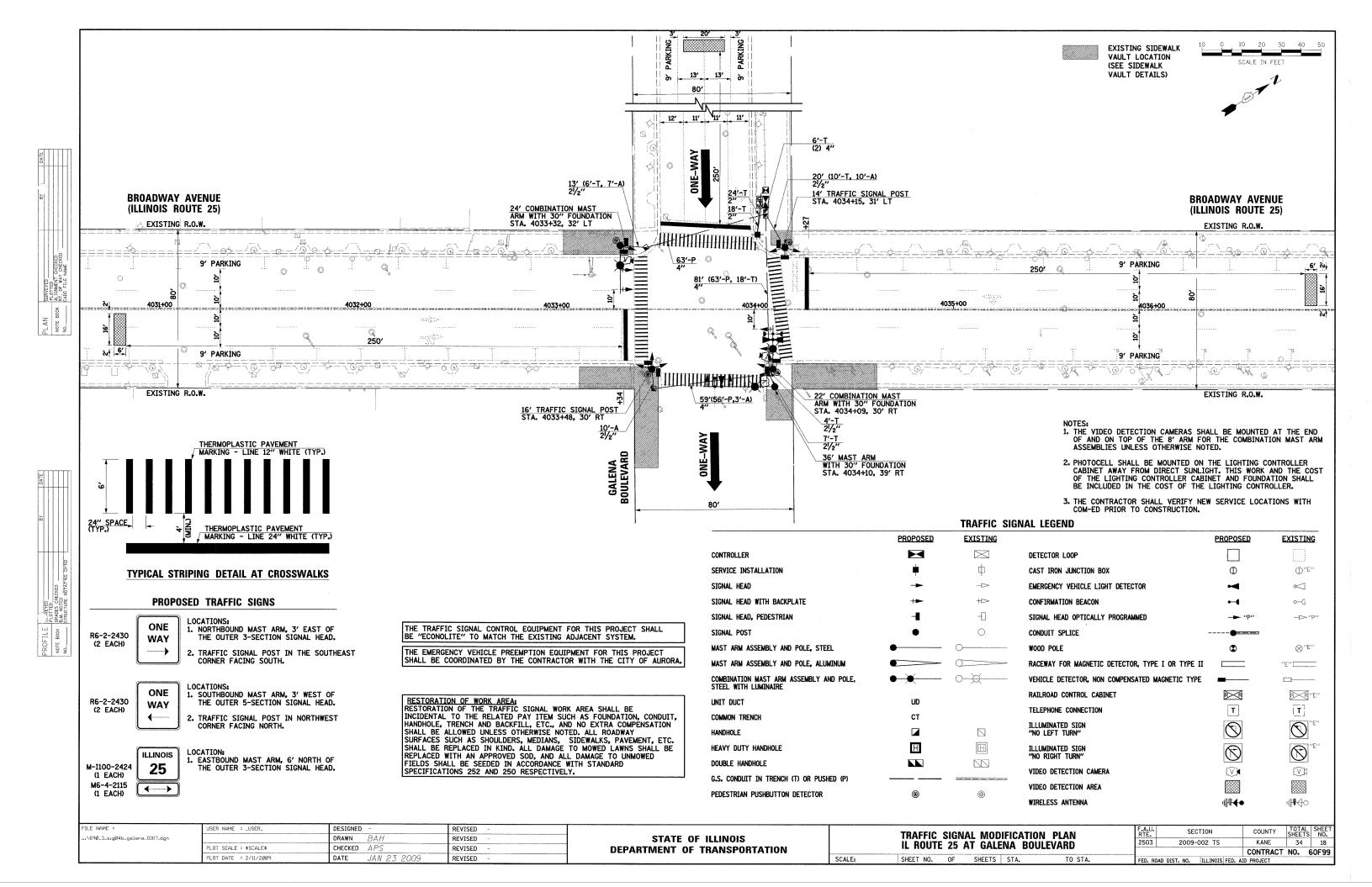
CABINET PLATFORM LEGS AND RAILS SHALL BE CONSTRUCTED

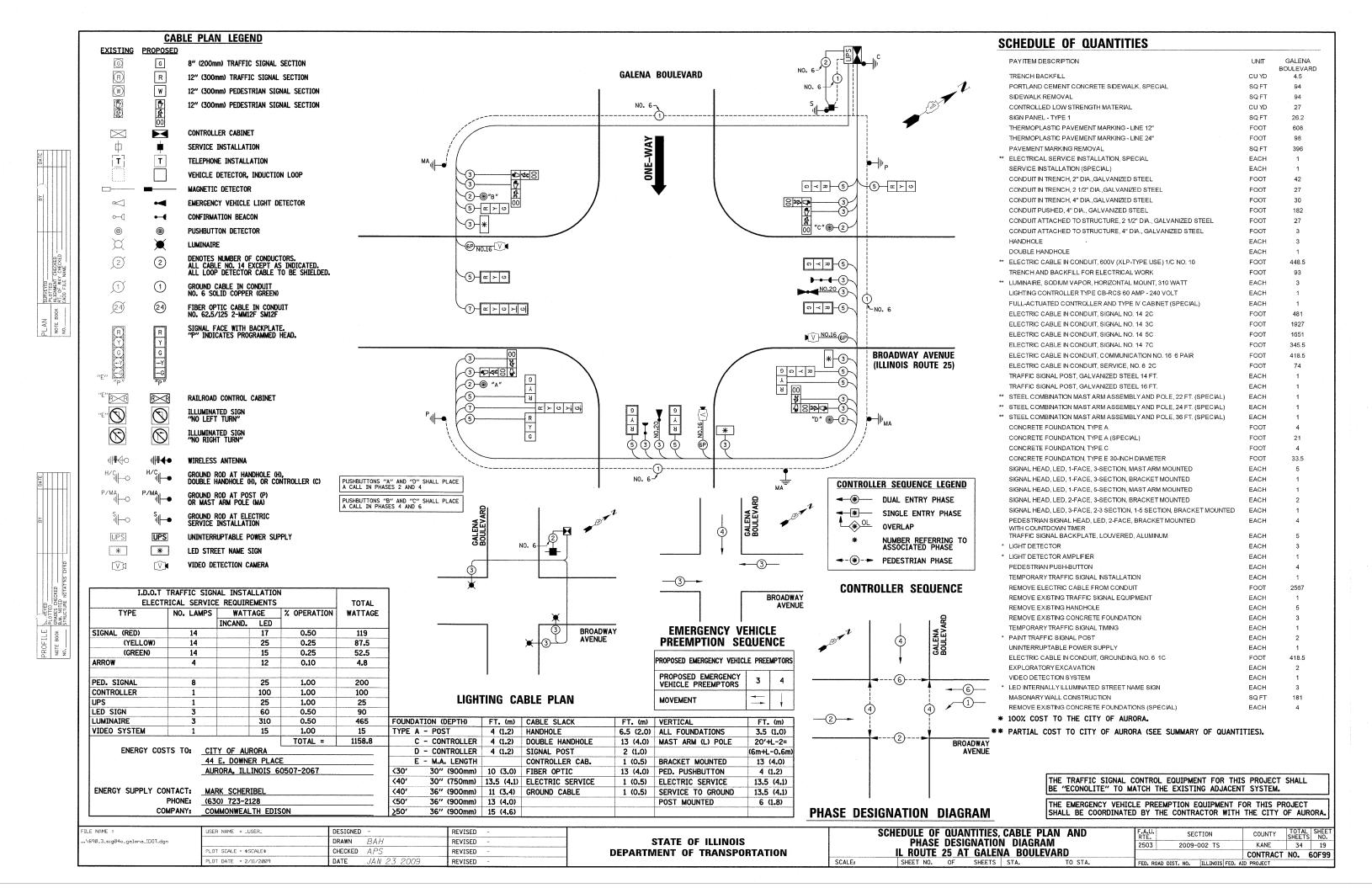


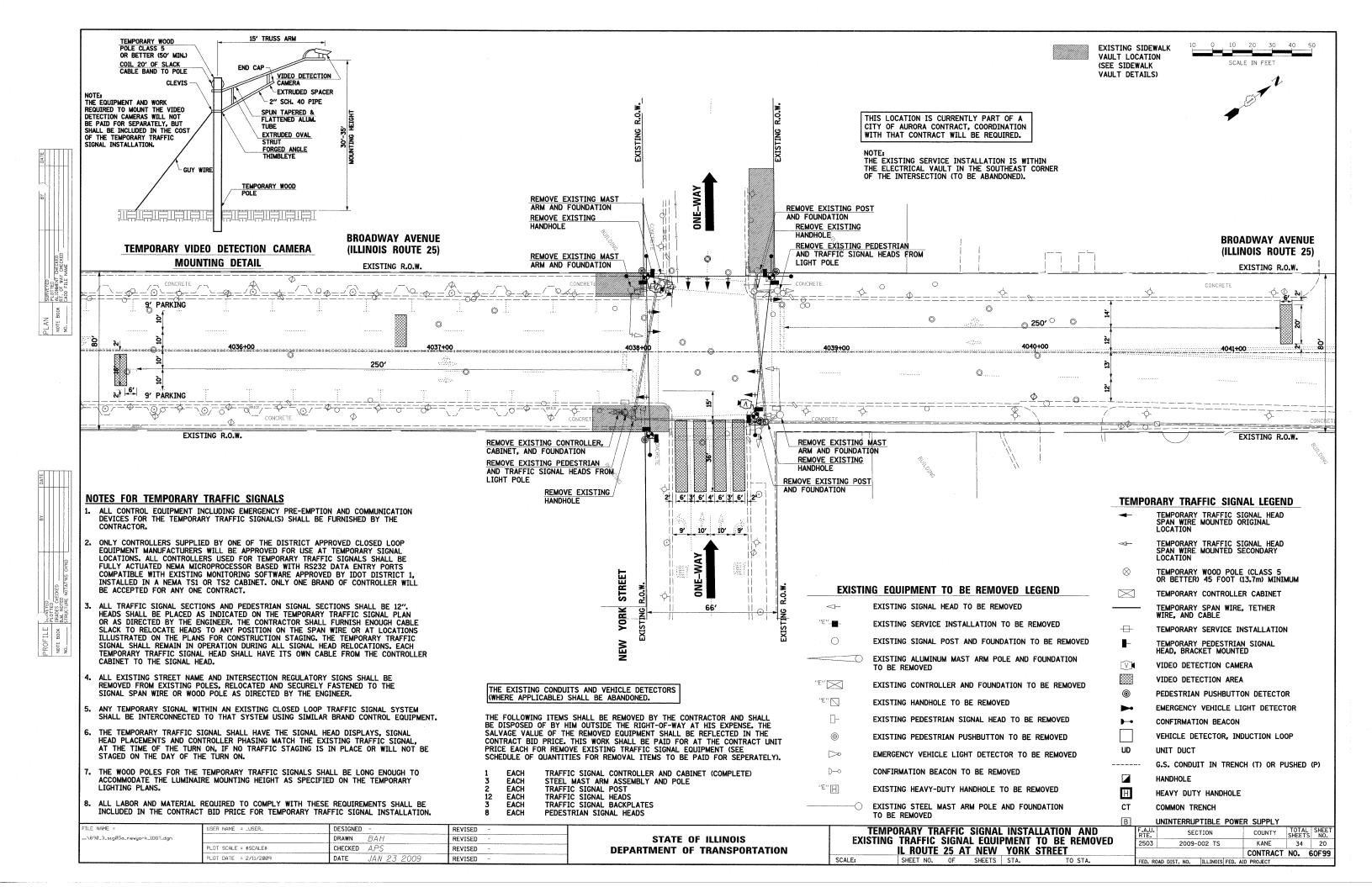
TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM DETAIL

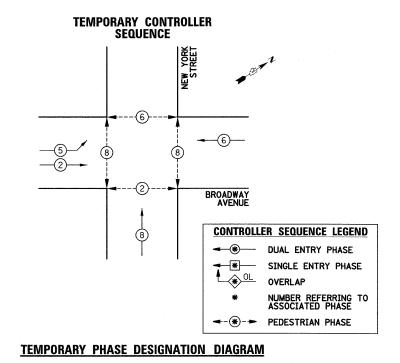
(NOT TO SCALE)

						· · · · · · · · · · · · · · · · · · ·		
FILE NAME	*	USER NAME = _USER_	DESIGNED -	REVISED -	·	TEMPORARY TRAFFIC SIGNAL	F.A.U. SECTION	COUNTY TOTAL SHEET
\690_3_t	sig04c_galena_IDOT.dgn		DRAWN BAH	REVISED -	STATE OF ILLINOIS	CABLE PLAN AND PHASE DESIGNATION DIAGRAM	2503 2009-002 TS	KANE 34 17
		PLOT SCALE = #SCALE#	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 25 AT GALENA BOULEVARD		CONTRACT NO. 60F99
		PLOT DATE = 2/11/2009	DATE JAN 23 2009	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED.	AID PROJECT



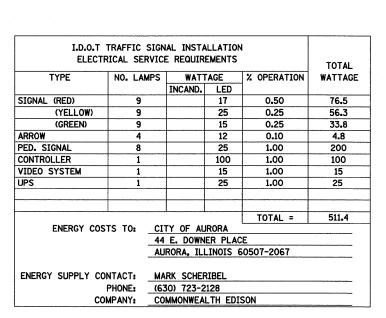


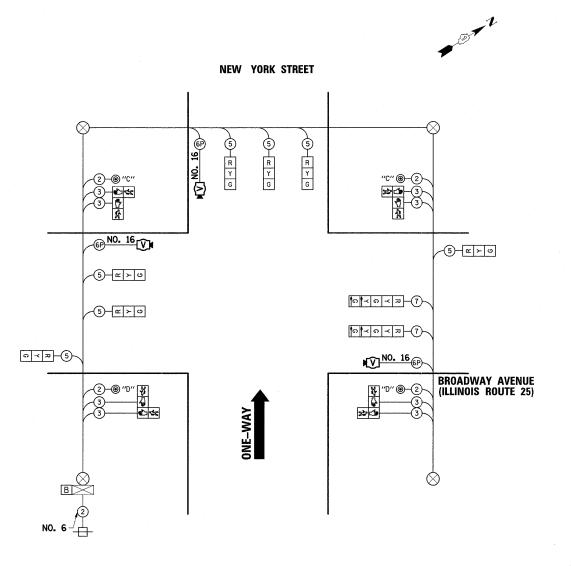




BOOK

FILE NAME = ...\690_3_tsig05c_newyor PUSHBUTTONS "C" SHALL PLACE A CALL IN PHASES 6 AND 8 PUSHBUTTONS "D" SHALL PLACE A CALL IN PHASES 8 AND 2







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

TEMPORARY CONTROLLER CABINET

TEMPORARY SERVICE INSTALLATION

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

■ EMERGENCY VEHICLE LIGHT DETECTOR

CONFIRMATION BEACON

(5)

VEHICLE DETECTOR, INDUCTION LOOP

PEDESTRIAN PUSHBUTTON DETECTOR

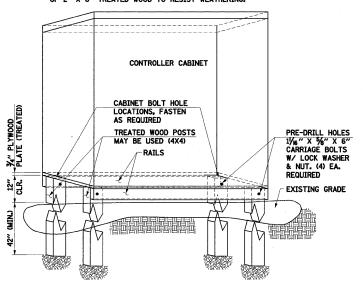
12" (300mm) PEDESTRIAN SIGNAL SECTION

V ▼ VIDEO DETECTION CAMERA

B UNINTERRUPTABLE POWER SUPPLY

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.

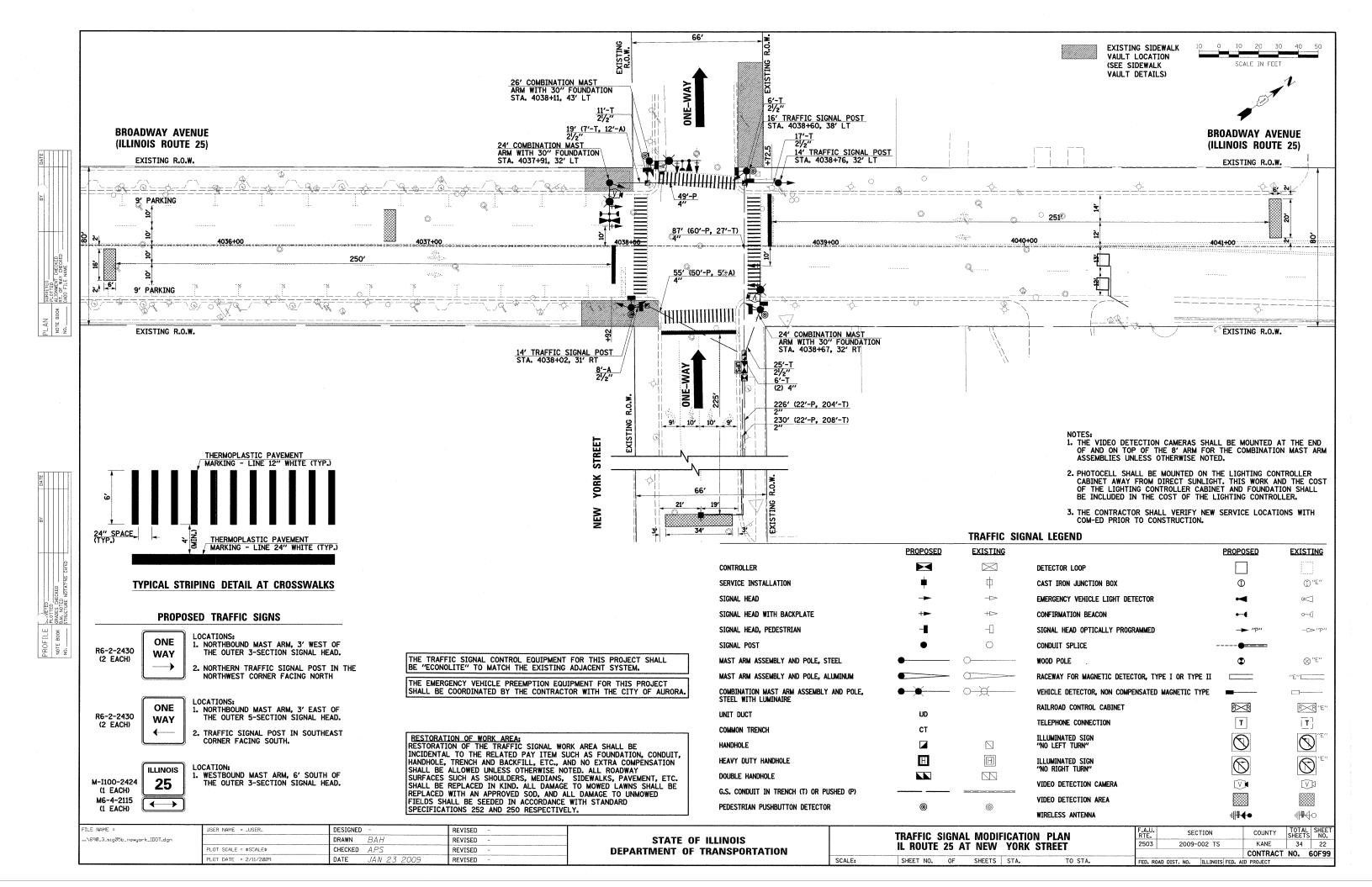
CABINET PLATFORM LEGS AND RAILS SHALL BE CONSTRUCTED OF 2" X 6" TREATED WOOD TO RESIST WEATHERING.

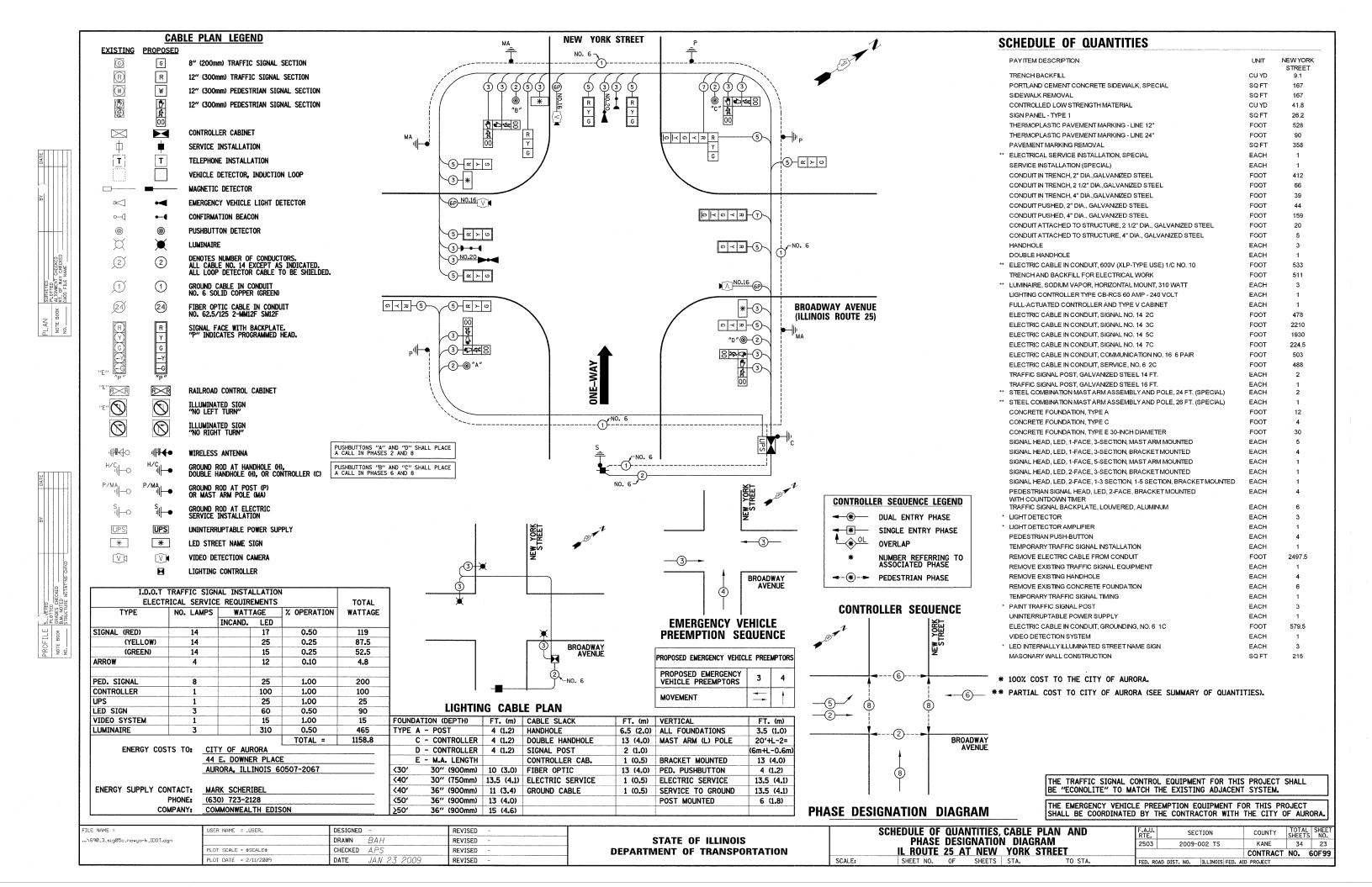


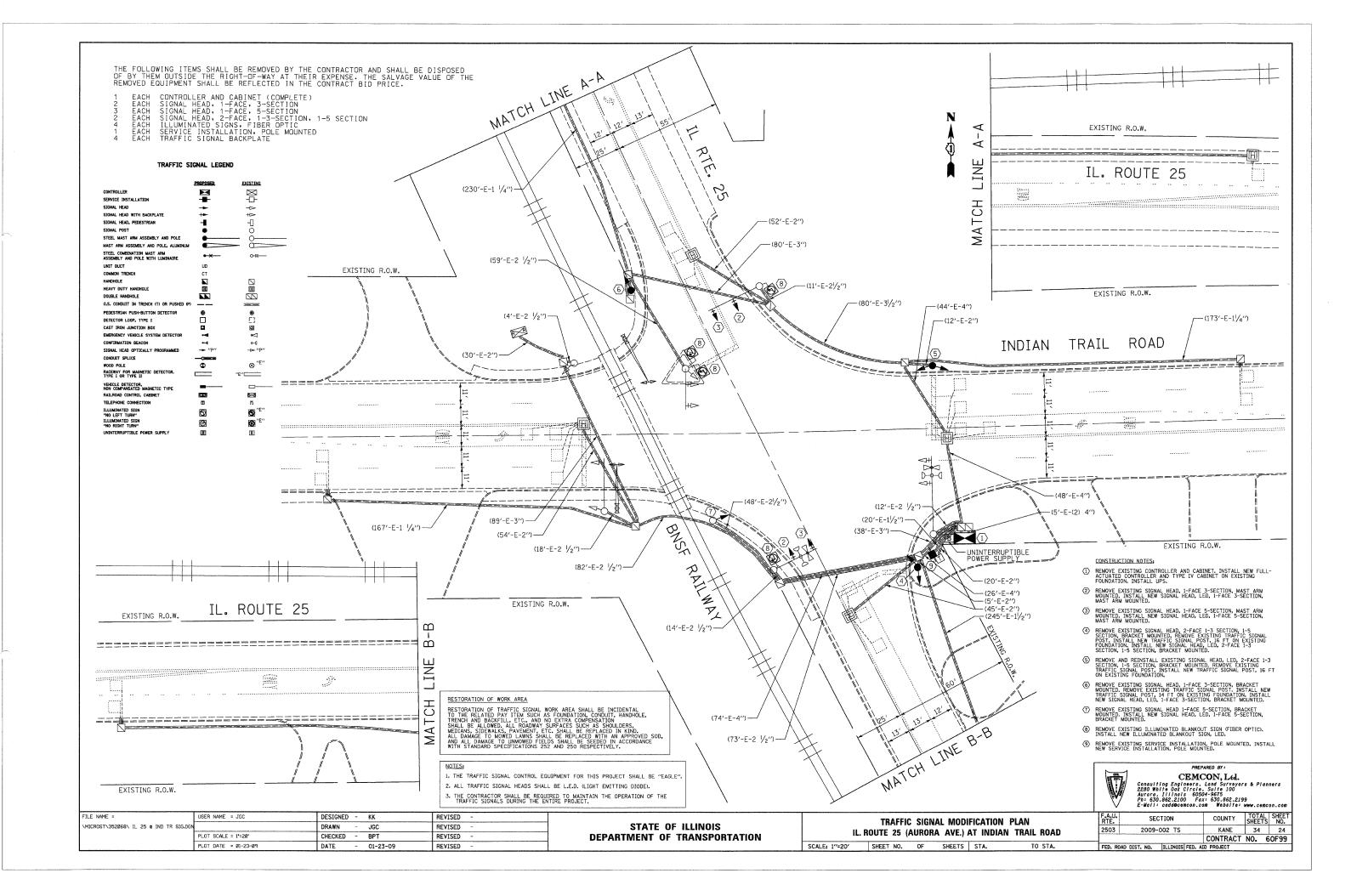
TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM DETAIL

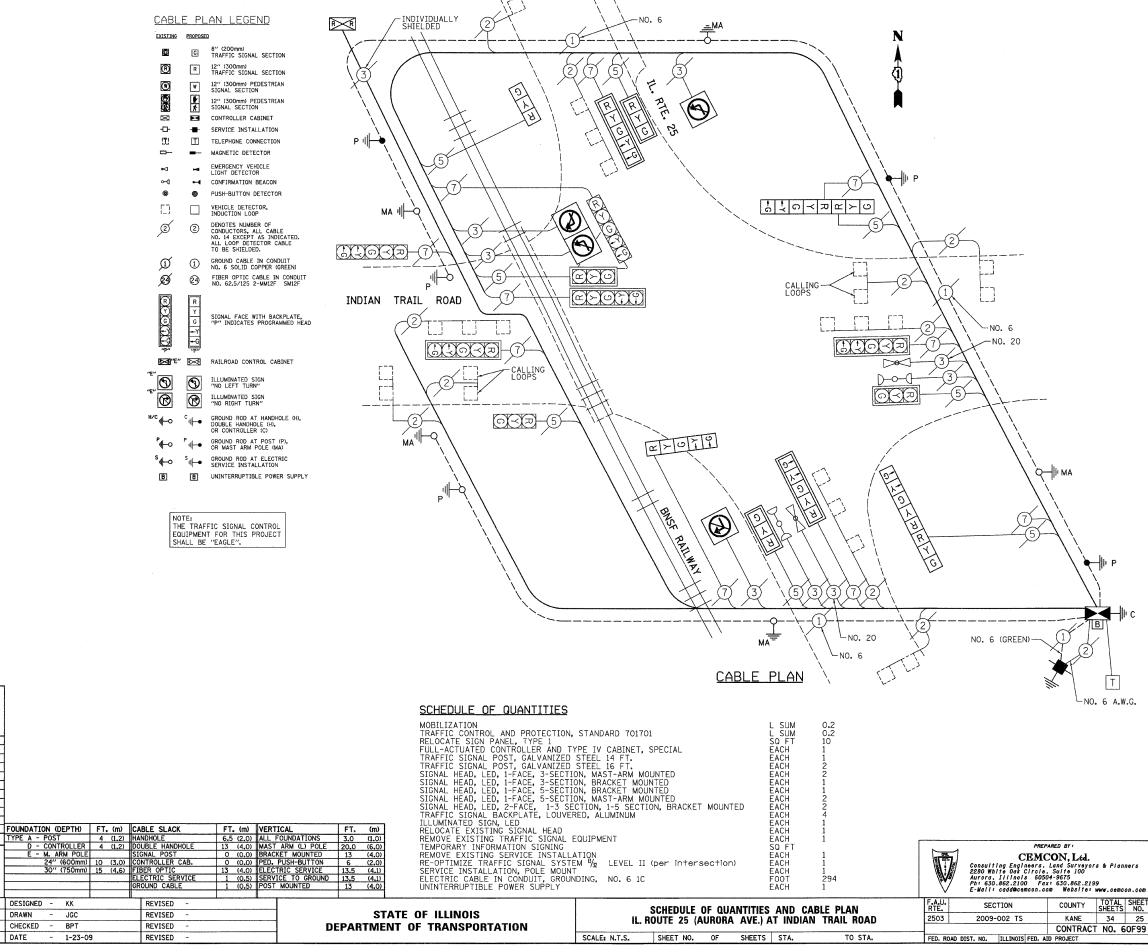
(NOT TO SCALE)

	USER NAME = _USER_	DESIGNED -	REVISED -		TEMPORARY TRAFFIC SIGNAL	F.A.U. SECTION COUNTY TOTAL SHEET
wyork_IDOT.dgn		DRAWN BAH	REVISED -	STATE OF ILLINOIS	CARLE DIAM AND DUACE DECICNATION DIACRAM	2503 2009-002 TS KANE 34 21
	PLOT SCALE = ¢SCALE¢	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 25 AT NEW YORK STREET	CONTRACT NO. 60F99
	PLOT DATE = 2/11/2009	DATE JAN 23 2009	REVISED -	,		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT









						_
TDAE	I.D.O. FIC SIGNAL		ATTON			1
ELECTRI	TOTAL					
TYPE	NO. LAMPS	INCAND.	TAGE LED	%OPERATION	WATTAGE	
SIGNAL (RED)	18	135	17	0.50	153	٦
(YELLOW)	18	135	25	0.25	112.5	7
(GREEN)	18	135	15	0.25	67.5	7
ARROW	20	135	12	0.10	24	٦
PED. SIGNAL		90	25	1.00		٦
CONTROLLER	1	100	100	1.00	100	٦
ILLUM. SIGN	4	84		0.05	16.8	7
						1
FLASHER				0.50		╁
ENERGY COSTS	T0:			TOTAL =	473.8	Ī

PLOT SCALE = N.T.S.

PLOT DATE = Ø1-23-Ø9

MICROST\352068\IL 25 @ IND TR CAB.

ENERGY SUPPLY CONTACT: PHONE: COMPANY: -FILE NAME = USER NAME = JGC DESIGNED - KK

DRAWN

CHECKED - BPT

DATE - 1-23-09

SEQUENCE OF OPERATION

MOVEMENT \$		*	<u></u>		0	1	4	†		6 1 1	en e				ئـــ 7	,	3	eggegive reinedou		The second secon	*	8 3			Per American Communication Com		7 <u>-</u> 4-	*	. Andria garantee an				4	\$	a		т.
PHASE		1	+ 5		1	÷ 5	2	+ 5		2 +	6				3	+ 7				-	3	+ 8					4	+ 7						4 + 6	j.		L
INTERVAL	1	2	3	4	5	6	7	8	9	104	108	11	12A	128	12C	13A	138	13¢	14	15	16A	168	17	18	194	198	190	190	20A	208	200	21	22A	228	22C	220	A
CHANGE TO		1+6	2+5	2+6		2+6		2+6		3	+7 +8 +7 +8			1+6 1+6 2+5 2+6 4+8	interes established		3+8	4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4+7		1 2	+5 +6 +6 +6 +6	4+8	/		2	+6 +6 +5 +6			4+8	· ·			1-	+6 +5		Н
ILL. RTE. 25 N/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	G	G	G	Υ	R	R	R	R	R	Я	R	R	R	R	R	R	R	P	R	R	R	R	R	R	R	R	R	я	R	R	R
ILL. RTE. 25 N/8 ENO MAST ARM AND FAR LEFT SIGNALS	R ⊸+G	R	R ⊸⇔ G	R	R	R	G 	G ⊸⊊Y	G	Υ	R	R	R	R	·R	R	R	R	R	Я	R	R	R	R	Я	R	R	R	R	R	R	·R	R	R	R	Ŕ	R
ILL. RTE. 25 S/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	G	G	R	R	6	Y	R	R	R	R	R	R	R	R	R	Я	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL RTE. 25 S/B END MAST ARM AND FAR LEFT SIGNALS	R ⊸∓ G	R ⊸∓ G	R ~⇔Y	R	G 	G	я	R	G	Υ	F	R	R	R	R	R	Ř	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	អ	R	R	R	R
INDIAN TRAIL ROAD (WEST OF TRACKS) E/8 NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R.	R	R	R	R	R	R	R	R	R	R	Ç	Y	R	R	R	G	C	G	G	Y	R	R	R	R
INDIAN TRAIL ROAD (WEST OF TRACKS) E/6 END MAST ARM AND NEAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R ≪⇔ G	R	R	R	R 	R	R	R		R	В	R	G ⊸∞G	Y	R	R	R	G -es-Y	G	G	G	Υ	я	R	R	R
INDIAN TRAIL ROAD (EAST OF TRACKS) E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	я	R	R	R	R	R	R	R	R	R	R	R	R	Я	R	R	R	R	G	G	G	Υ	R	G	G	G	G	G	Ģ	Y	R	R
INDIAN TRAIL ROAD (EAST OF TRACKS) E/8 END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R ⊸⇔ G	- R		R ~** Y	R ~40	R ⊶≪al-G	R -ost-Y	-a (R	R	R	R	G e-G	G ≪≉G	G ⊸≪ G	Y	R	G ~=+G	G G	0 	G	G	G	Υ	R	R
INDIAN TRAIL ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	B	R	A	R	R	R	R	R	R	G	Y	R	G	R	R	Þ	R	R	R	R	R	6	G	G	γ	R	R
INDIAN TRAIL ROAD 8/8 END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R.	R	R	R 	R →# G	R ⊶o+G	R ~≪Y	R -≪s-G	R 	R -≪G	R -≪sY	G 	γ	R	G -⇔Y	R	R	R	8	R	R	R	R	G	G	G	Y	R	R

PHASE 2 + 6 SHALL BE PLACED ON RECALL.

NLROAD PREEMPTION SEQUENCE OF	W1 613			****						,		un a garante a contra	,		NUMB		NUMB		PREEMPTOR NUMBER 2				
Change from Normal Sequence of Operation interval number	1		5	7	ř	9	1	11	,5	5	1	8	2	1									
															2	2 ,		3					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	14	18	1C	10	1E	15	1G	1H	1J	1%	1L	1M	1 N	16	10	1R	18	11	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	10	2	2	1K	2	114	2	1 P	2	1R	2	1 T	2	3	4	5		NORMAI SEGUENO
ILL.RTE.25 N/B NEAR RIGHT AND FAR RIGHT WAST ARM SIGNALS	R	R	R	Y	R	Υ	R	R	R	R	R	R	Ř	R	Y	R	R	R	R	R	R	G	Δ
ILL. RTE. 25 N/8 EMO MAST ARM AND FAR LEFT SIGNALS	R	R	R	Y	Я	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	н	R	G	Δ
ILL, RTE, 25 S/B NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	Υ	R	Я	Ř	Υ	R	R	R	R	R	R	R	R	Y	Я	R	R	R	R	R	G	Δ
ILL. RTE. 25 S/8 END MAST ARM AND FAR LEFT SIGNALS	R ⊸s• Y	Y	R	R	R	Υ	R	R	R	R	R	R	A	R	۲	R	R	R	R	R	Я	G	Δ
INDIAN TRAIL ROAD (WEST OF TRACKS) E/8 NEAR RIGHT SIGNAL	R	Я	R	R	Ŗ	R	R	R	A	R	Y	R	۲	R	R	R	Υ	R	R	Я	R	R	Δ
INDIAN TRAIL ROAD INEST OF TRACKS? E/B END HAST ARM AND NEAR LEFT SIGNALS	R	R	R	R	R	R	R	R	Я	R	γ	R	7	R	R	R	Υ	R	R	R	R	R	Δ
INDIAN TRAIL ROAD (EAST OF TRACKS) E/B FAR RIGHT MAST ARM SIGNAL	R	я	R.	R	R	R	R	R	R	R	G	G	G	G	R	Ř	G	G	G	Y	R	R	Δ
INDIAN TRAIL ROAD LEAST OF TRACKS) E/B END MAST ARM AND FAR LEFT SIGNALS	R	R.	R	R	R	R	R	R 	R	R	G ⊸a G	G ⊸arG	C	G	R	R	Ģ	G	G ⊸≪G	Y	R	R	Δ
INDIAN TRAIL ROAD W/B. NEAR RIGHT AND FAR RICHT MAST ARM SIGNALS	R	R	R	A	R	R	R	R	Υ	R	R	R	Ÿ	R	R	R	Υ	R	R	R	R	R	Δ
INDIAN TRAIL ROAD W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R 	Y	R	R	R	Y	R	R	R	Υ	R	Я	R	R	R	Δ
INTERNALLY ILLUMINATED NRT SIONS	NRT	NRT	NRT	NRT	NRT	NRT	NAT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	ŅRT	HRT	NRT	NRT	NAT	NRT	NRT	Δ
INTERNALLY ILLUMINATED NLT SIONS	NLT	NLT	NLT	Nt.T	NLT	NL.T	NL T	NL.T	NLT	NL.T	NLT	NLT	NLT	NLT	NL.T	NLT	NL T	NLT	NLT	NLT	NLT	NLT	Δ
INTERNALLY ILLIMINATED NLT SIONS	NLT	NLT	NLT	NI.T	NLT	NLT	NL.T	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NL T	NLT	NLT	NLT	NLT	NL T HOLD	-

▲ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

NRT = "NO RIGHT TURN" OR



NLT = "NO LEFT TURN" OR



FILE NAME =	USER NAME = JGC	DESIGNED	-	KK	REVISED	-
\MICROST\352068\IND TRL SEQ OF OPS.DGN		DRAWN	-	JGC	REVISED	-
	PLOT SCALE = N.T.S.	CHECKED	-	BPT	REVISED	-
	PLOT DATE = 01-23-09	DATE	~	01-23-09	REVISED	_

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPE
PREEMPTION SEQUENCE OF OPE
PREEMPTION

SEQUENCE OF OPERATION AND RAILROAD PREEMPTION SEQUENCE OF OPERATION IL. ROUTE 25 (AURORA AVE.) AT INDIAN TRAIL ROAD SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

	British and a second	2280 W Aurora Ph: 63		e, Sulte 100 504-9675 ax: 630.862.219	9	
_	F.A.U. RTE.	SE	CTION	COUNTY	TOTAL	SHEET NO.
	2503	2009	-002 TS	KANE	34	26
				CONTRAC	T NO. 6	0F99
_	FED. RO	AD DIST. NO.	ILLINOIS FED.	AID PROJECT		

PREPARED BY:

EMERGENCY VEHICLE PREEMPTION SEC	UENC	E OF	OPE	RATH	JN																					,			NUMBER 3		
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		5	7		7	9		9		11		1	5	15		1	8	,		18			2	21		21			CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1.4	18	10	10	16	15	10	111	13	1 K	14	1 M	1N	1P	10	1R	15	1 1	10	14	1 14	1 X	1 Y	١Z	1 AA	188	tcc	100	2	3	NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	ogr 3	2	10	3	2	10	3	2	١X	3	114	1 N	OR OR	10	2	3	17	10	17	2	11	17	3	144	188	100	2	3			♦
ILL. RTE, 25 N/8 NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	R	G	Υ	R	G	Y	R	R	R	R	R	R	R	R	R	Я	R	R	R	R	R	R	R	R	R	G	R	◊
ILL RTE, 25 N/B END WAST ARM AND FAR LEFT SIGNALS	R 	R	R	R	Ğ ~≪≆ Y	Υ	R	G	Y	R	R	R	R	R	R	R	R	Ħ	R	Ħ	R	R	R	R	R	R	R	Я	G	R	♦
ILL. RTE, 25 S/8 NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	R	G	Y	R	R	R	R	G	Y	R	R	я	Я	R	R	R	R	R	Я	R	R	R	R	A	R	R	R	R	G	R	◊
ILL. RTE, 25 S/B S/B SAM AND FAR LEFT SIGNALS	R ⊶ Y	G ⊶s Y	Y	R	Я	R	R	G	Υ	Я	R	R	R	R	R	R	R	R	В	R	Я	R	R	R	R	R	R	R	G	R	0
INDIAN TRAIL ROAD (WEST OF TRACKS) E/B NEAR RIGHT STGNAL	R	R	R	R	Ř	A	R	R	R	R	R	R	R	R	R	R	Υ	R	R	A	G	G	G	γ	R	R	R	G	R	G	0
INDIAN TRAIL ROAD (WEST OF TRACKS) E/B END WAST ARM AND NEAR LEFT SIGNALS	R	R	R	R	R	Я	R	R	R	R	R ~~Y	Ŕ	R	R	R	R	Y	Ŗ	R	R	G wata Y	G	Ğ	Υ	R	R	R	6	R	G	◊
DIGIAN TRAIL ROAD WEAST OF TRACKS) E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	Ř	R	R	R	Я	R	R	R	R	R	я	R	G	G	Y	Þ	G	G	G	Ģ	G	Υ	R	Ģ	R	G	♦
INDIAN TRAIL ROAD (EAST OF TRACKS) E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	. 8	R	R	R	R	A 	A ≪≉G	R ⊸arY	R	R	R	G ~a+G	G ⊶≪rG	Y	Ŗ	G ⊶er G	G ⊸⊷a÷G	G e-Y	G	G	Y	R	G	R	G	0
INDIAN TRAIL ROAD NEAR RIGHT AND FAR RIGHT WAST ARM SIGNALS	R	R	R	R	R	Я	R	R	R	R	R	Я	R	Υ	R	Ģ	R	Я	R	R	R	R	R	G	G	Υ	R	G	R	G	0
INDIAN TRAIL ROAD END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R ⊸⇒ G	FR 	R •••• Y	γ	Я	Ģ ⊶e+Y	R	8	R	R	R	R	R	G	G	Y	R	6	R	0	0

♦ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

PREPARED BY:

CEMCON, Ltd.

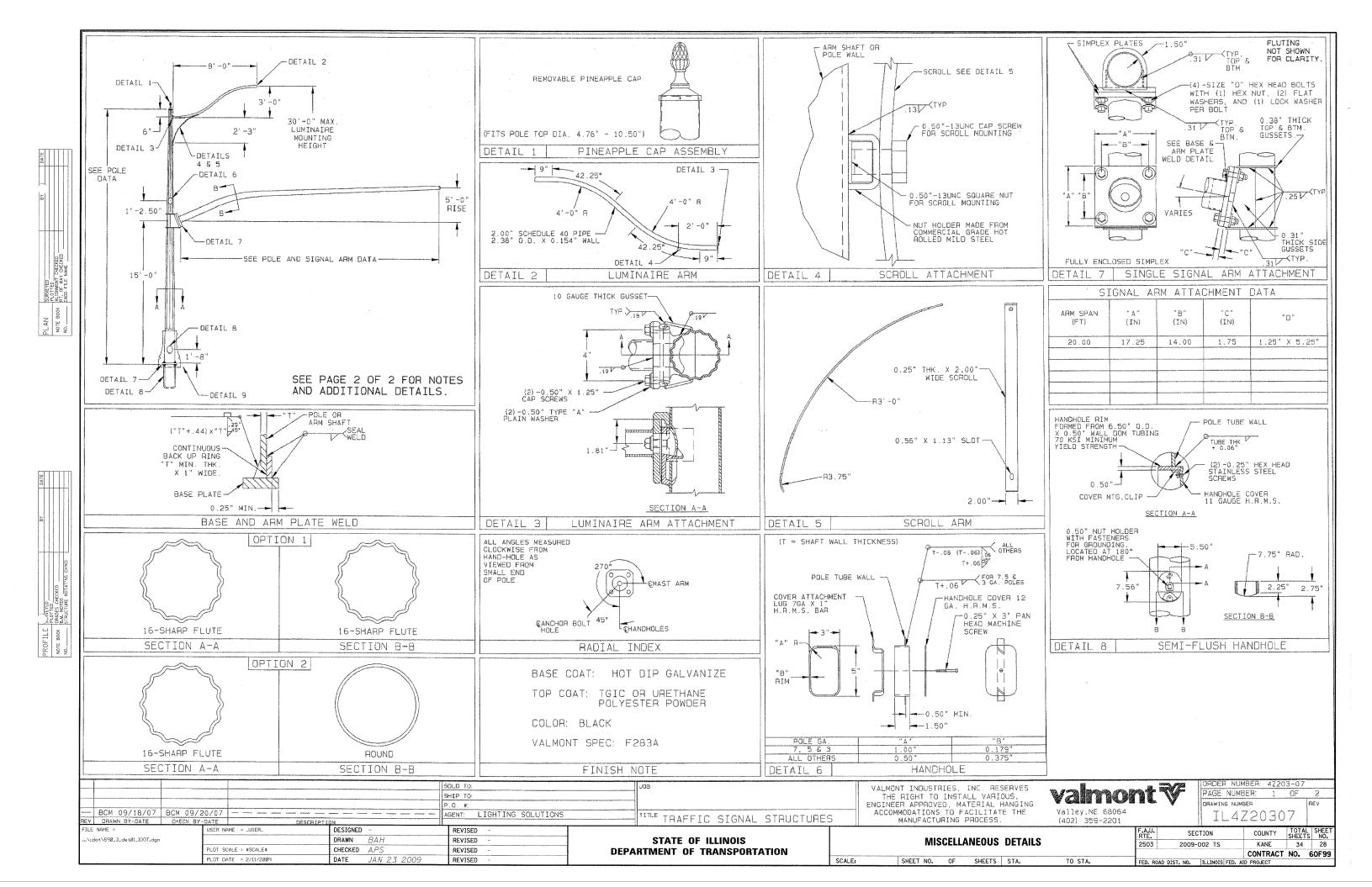
Consulting Englaeers, Land Surveyors & Planners
2280 White Oat Circle, Suite 100 s
Aurora, Illinois 60504-9675
Ph: 630.882.2100 Fax: 630.862.2199
E-Wall: cadd@cemcon.com Website: www.cemcon.com

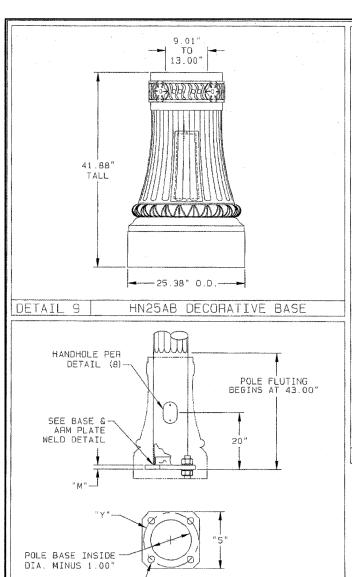
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\MICROST\352068\INDTR EMER VEH PRE.DGN		DRAWN	-	JGC	REVISED -
	PLOT SCALE = N.T.S.	CHECKED	-	BPT	REVISED -
	PLOT DATE = 01-23-09	DATE	-	01-23-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RO		SEQUENC	E OF OI	PREEMPT PERATION T INDIAN	ON TRAIL ROAD
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.

	F.A.U. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	2503	2009-0	002 TS		KANE	34	27
AIL ROAD	_				CONTRACT	NO. 6	0F99
TO STA.	FED. ROAD	DIST. NO.	ILLINOIS	FED. AID	PROJECT		





HN25AB POLE BASE

ANCHOR BOLT

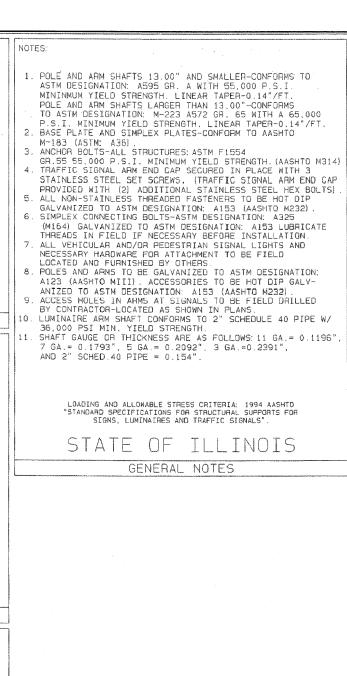
"U"

ВООК

DETAIL 10

DETAIL 11

(4) -ANCHOR BOLTS, GALVANIZED THE FULL LENGTH, EACH BOLT FURNISHED WITH (2) -HEX NUTS, (2) -FLAT WASHERS AND (1) -LOCKWASHER.



			4												
		Marine all Door American		POLE	ANE	SI	GNAL AF	M D	ΑΤΑ	- 0	PTIÓ	N 1		•	
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BASE DIA. (IN)	TOP DIA. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIACLE "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)
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											430000000000000000000000000000000000000				
***************************************	POLE AND SIGNAL ARM DATA - OPTION 2														
POLE TUBE POLE BASE									ANCHOP	BOLT			IAL ARM	TUBE	MAXIMUM
BASE	TOP	LENGTH	GAUGE OR	SQUARE	BOLT	THK.	HOLE / SLOT	DIA.	LENGTH	HOOK	THREAD	FIXED	GAUGE OR	SPAN	LUMINAIRE ARM SPAN

and other decisions and the second se				POLE	AND) SI	GNAL AR	M D	ATA	- 01	PTIO	N 2			
	POLE	TUBE	THE PARTY OF THE P		PC	DLE BAS	E		ANCHOR	BOLT		SIGN	AL ARM	TUBE	MAXIMUM
BASE DIA. (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)	(IN) "H" HOOK	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
	annual resource the source varieties to conve	and the second and the second and the second									Andrew Printers (New York)				
							-					waterway and a second s			

JOB

SCALE:

TITLE TRAFFIC SIGNAL STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES
THE RIGHT TO INSTALL VARIOUS,
ENGINEER APPROVED, MATERIAL HANGING
ACCOMMODATIONS TO FACILITATE THE
MANUFACTURING PROCESS.

Valnont Valley, NE 68064

(402) 359-2201

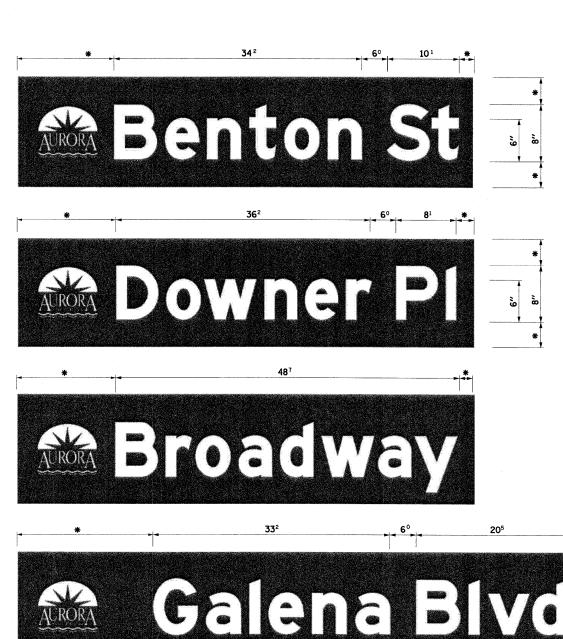
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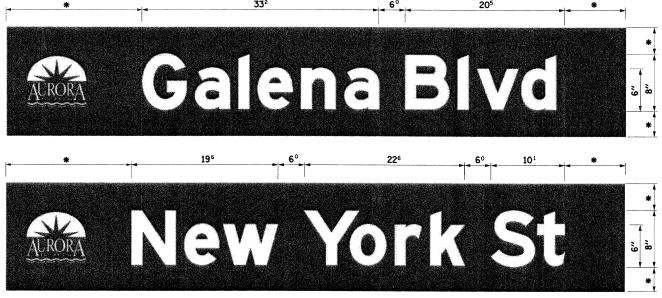
ILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -
\idot\690_3_det02_IDOT.dgn		DRAWN BAH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -
	PLOT DATE = 2/11/2009	DATE JAN 23 2009	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SHEET NO. OF SHEETS STA. TO STA.





DESIGNED

CHECKED AP

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DATE

REVISED

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* PER MANUFACTURERS SPECIFICATIONS FOR THE CITY OF AURORA.

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

NOTE:

..\idot\690_3_detØ3_IDOT.dar

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

JSER NAME = _USER_

PLOT SCALE = \$SCALE\$

PLOT DATE = 2/11/2009

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

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

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

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STATE OF ILLINOIS

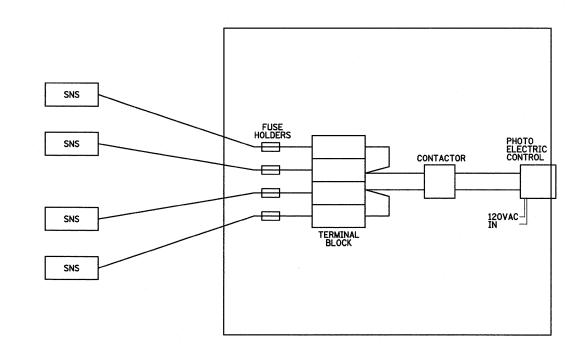
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

| F.A.L. | SECTION | COUNTY | SHEETS | SHEET | SHEET | SHEETS | SHEET | SHEETS | SHEETS | SHEETS | SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

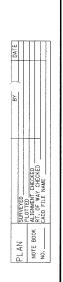
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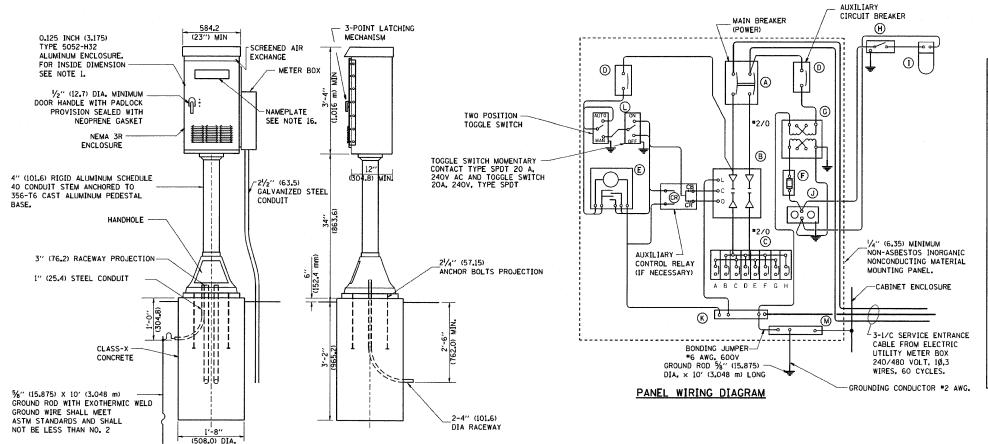


LED STREET NAME SIGNS - PHOTOCELL WIRING DETAIL

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -				***************************************			F.A.U.	SECTION	COUNTY	TOTAL	SHEET
\1dot\690_3_det04_IDOT.dgn		DRAWN BAH	REVISED -	STATE OF ILLINOIS		MISCELLAN	NEOUS	DETAILS		2503			34	31
	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS	CT NO.	NO. 60F99							
	PLOT DATE = 2/11/2009	DATE JAN 23 2009	REVISED -		SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLIN		<u></u>	







PANEL EQUIPMENT

BILL OF MATERIAL ITEM QUANTITY DESCRIPTION MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT. REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT. CIRCUIT BREAKERS, 1 POLE, 277V., 100 AMP., FRAME 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING 8 RATING NEMA-10,000 AMP. AT 240 V. CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V, 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V. D 2 Ε ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH]. 20 A., 120 V. FUSE. 1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz. G 1 SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN, INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP. 20 A., 120 V., DUPLEX RECEPTACLE, GFCI. COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX. COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

32 **60F99**

NOTES:

SIDE

CONTROL CABINET

FRONT

FOUNDATION PLAN

1/2" (12.7) STEEL CONDUIT

-2-4" (101.6) Ø RACEWAY

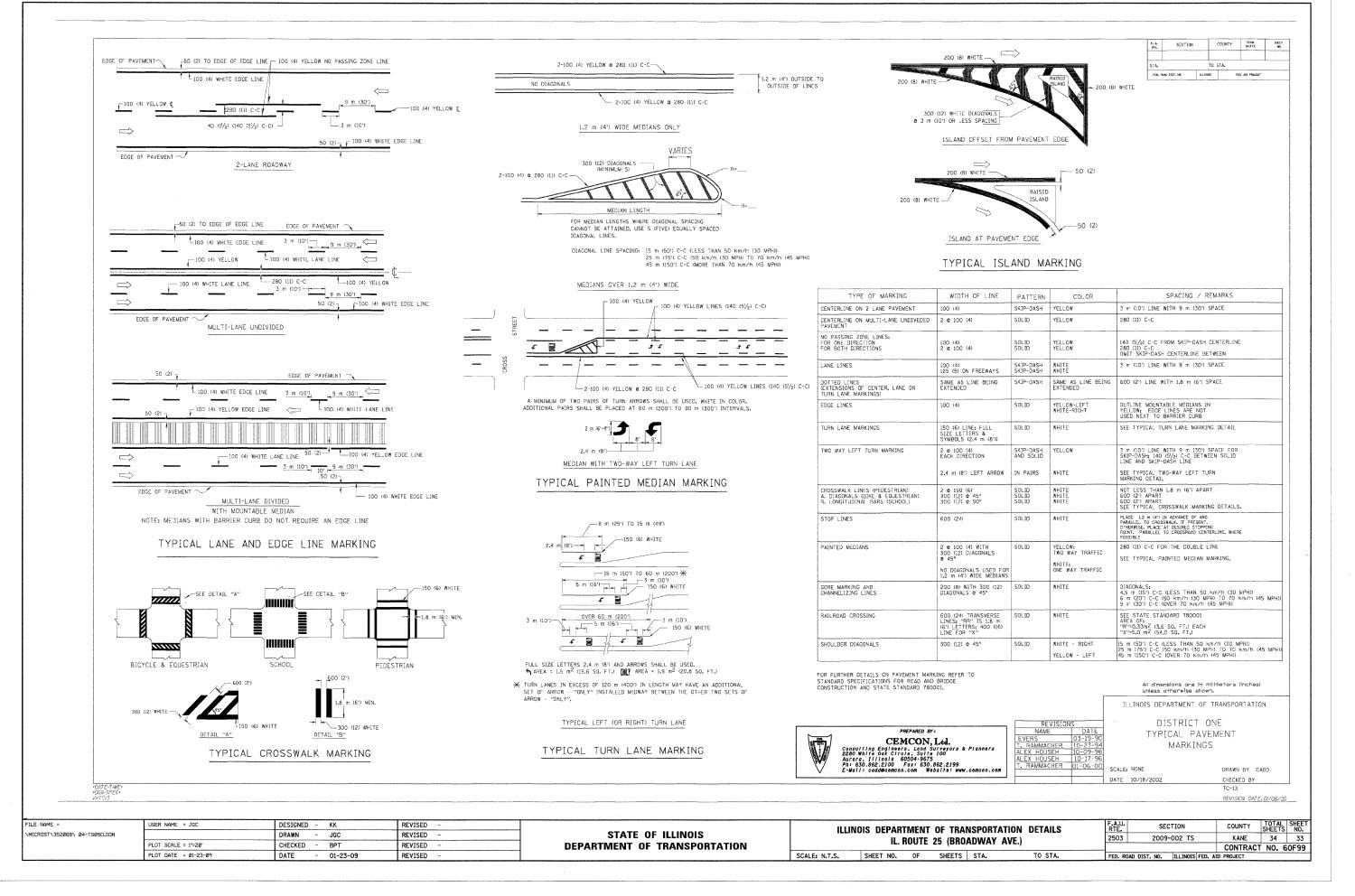
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
 UNLESS OTHERWISE SHOWN.
- 2. UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101,6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
- 3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- 5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- 6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.

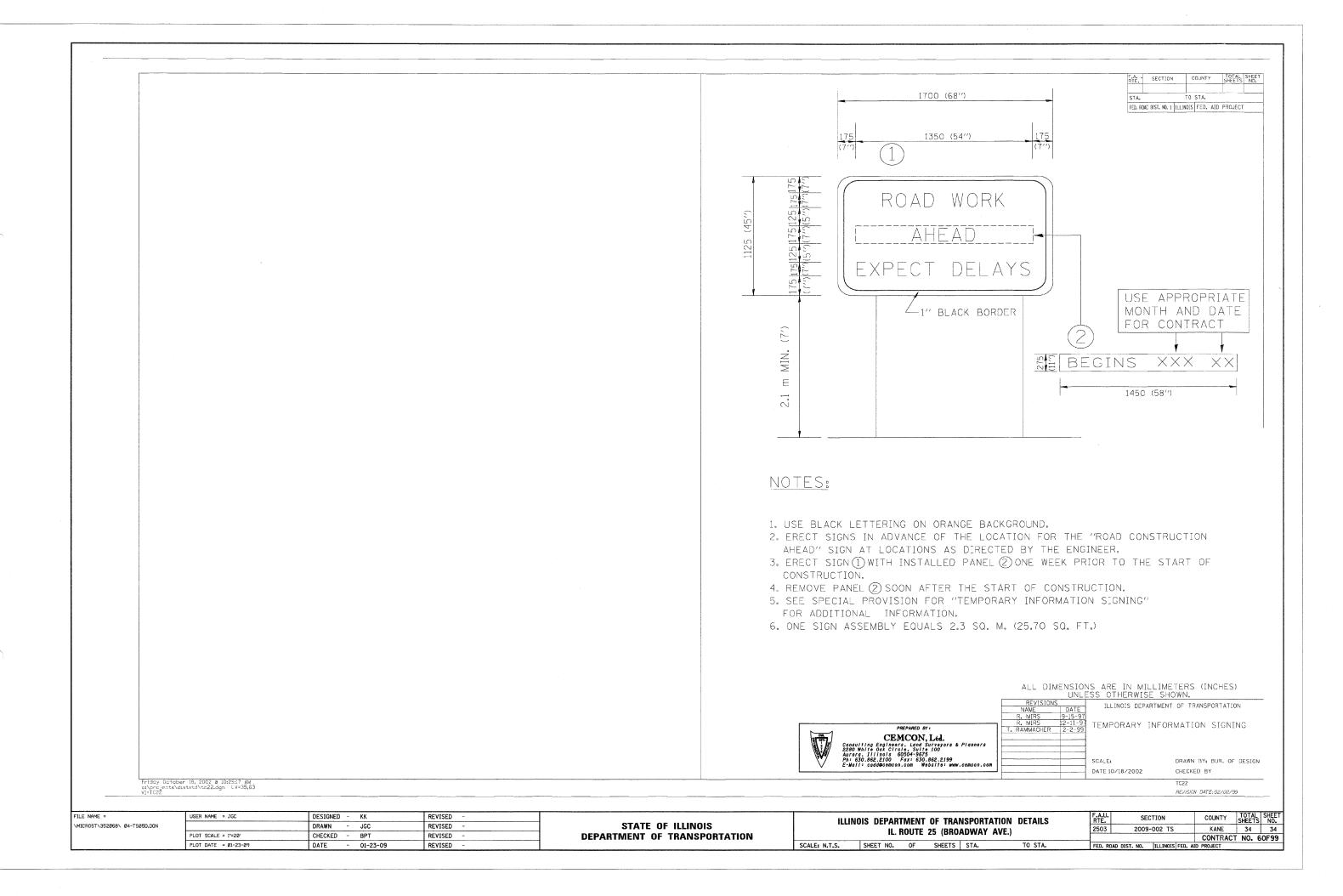
- 7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- 8. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- 10. CABINETS SHALL BE PRIMED AND PAINTED
 AS SPECIFIED.
- 11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- 12. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.

 R = RED BL = BLUE W = WHITE B = BLACK Y = YELLOW G = GREEN
- 13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.

- 14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- 15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

FILE NAME =	USER NAME = _USER_	DESIGNED -	REVISED -			F.A.U.	SECTION	COUNTY	TOTAL
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	PLOT SCALE = \$SCALE\$	CHECKED APS	REVISED -	DEPARTMENT OF TRANSPORTATION	MIOGERATIVE OUT DEITHEO	2503	2009-002 15	CONTRACT	NO 6
	PLOT DATE = 2/11/2009	DATE JAN 23 2009	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA	FED BOAD DE	VICT NO THEINOTC COD A	ATD DOD ISST	NO. DI





GENERAL NOTES

- 1. Plan dimensions and details relative to existing structure have been taken from field measurements of visible portions of each vault and building. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- 2. The prospective bidder shall, before submitting a bid, carefully examine the proposal form, plans, Specifications, Special Provisions and form of contract and bond. The bidder shall inspect in detail the streets, the site of the proposed work and the local conditions that affect the detailed requirements of construction. This shall include, but not be limited to, the various pavement cross sections, the condition of the pavements, utilities that are known, unknown or abandoned, unidentified vaults or cavities within the right-of-way and items buried within the right-of-way including railroad tracks and utility structures. The City of Aurora will not accept requests for contract cost increases including compensation for conditions that affect the progress of work.
- 3. It is the contractor's responsibility to field verify all existing conditions regarding state, city, and privately owned utilities. The contractor shall be responsible for ensuring that active utilities (including lighting) remain in-service throughout work operations.
- 4. All active lighting and traffic signal wiring shall be enclosed and protected prior to drilling. Wiring shall be protected with a "Split-duct" conduit system extending through the limits of the vaults as directed by the Engineer.
- 5. Water service lines and meters, sanitary sewer service lines and cleanouts, gas service lines and meters and signal / lighting conduits may be present in the vaults and are shown on the drawings as observed in the field. Contractor shall retain responsibility for protection and location of utilities in accordance with Article 107.31 of the Standard Specifications. Utilities noted on the drawings and others not observed during design are to be adjusted or relocated in accordance with Article 105.07 of the Standard Specifications. Work by the Contractor may include (but is not limited to):

Extending sanitary sewer cleanouts (currently located in sidewalk vaults) to the building basement or relocation of same into the building basement:

Water supply plumbing work as required to connect the water meter and service relocated within the building basement;

Cutoff and removal of wiring for vault lighting (if necessary) in accordance with the local electrical code requirements; and

Shift and support existing or proposed signal and street lighting conduit to clear the work area.

Any interruption to building services shall be scheduled with input from the City and building Owner, and authorized by the Engineer.
Interruptions shall be limited to a maximum of two (2) hours.

- The back face of masonry retaining walls shall be waterproofed according to Article 503.18 of the Standard Specifications unless otherwise noted. Cost shall be included under the unit price bid for Masonry Wall Construction.
- Concrete masonry units (where indicated on plan) shall conform to the Special Provisions.
- 8. All gaps/open joints shall be sealed with a polyurethane sealant that is a one-component high-performance gun-grade moisture-curing polyurethane sealant designed for a wide range of sealing and caulking applications in active exterior joints, including steel, concrete and masonry. The sealant material shall be approved by the Engineer prior to use.
- 9. The final sidewalk grades shall match into the existing sidewalk, and shall slope away from the existing buildings. The proposed sidewalk jointing shall be located in coordination with the vaults to remain, and the existing sidewalk jointing. If sidewalks with brick in-lays are required to be removed to complete the work, the brick in-lays shall be replaced in-kind in the proposed sidewalk. The cost of the brick in-lays shall be included in the item PCC Sidewalk, 5".
- 10. No motorized equipment will be permitted on the existing and proposed vault slabs without written authorization from the Engineer.
- 11. The Contractor shall provide temporary bracing of existing vault walls and ceilings, if needed, prior to removing the concrete sidewalks/vault tops. The Contractor shall also provide protection for the adjacent structure from water/seepage.
- 12. The Contractor shall remove and dispose of all debris and out-of-service utility boxes, conduits, wires, miscellaneous timber, etc. in vaults prior to beginning filling operations. It shall be the Contractor's responsibility to determine which equipment is out-of-service and available to be removed (See Note 3).

13. Controlled Low Strength Material (CLSM) work shall conform to applicable portions of Section 593 of the Standard Specifications with the following additional requirements:

Where CLSM is poured against an existing wall not retaining soil Masonry Wall Construction, the CLSM shall be poured in lifts not exceeding 24" deep. Each lift shall be allowed to cure for a minimum of 4 hours before the next lift is poured.

The contractor may, instead, provide bracing and/or cross ties to carry the pressure from the fluid CLSM.

If cross ties are used, wales shall be placed on the interior wall surface to prevent pullout. All wale and tie material shall be removed from the basement and damage to the existing wall shall be patched to the satisfaction of the Engineer when the forms are removed.

- 14. The Contractor shall contact the property owner prior to beginning work on the respective vaults and coordinate the work. In order to complete the work indicated, the Contractor may need to temporarily access private property. In addition to coordinating access with the owner, the Contractor shall be responsible for obtaining appropriate building permits and approvals from the local building official with jurisdiction.
- 15. In additional to requirements set forth in Article 107.09, pedestrian traffic shall be protected during construction in accordance with Section 3306 of the most recent version of the International Building Code.
- 16. The cost for Reinforcement Bars, drilling and grouting bars and grout provided for the wall/bond beam detail shall be included with the item Masonry Wall Construction.
- Reinforcement bars shall conform to the requirements of ASTM A 706 GR 60. See Special Provisions.
- 18. The cost of all utility removal, relocation, maintenance, and protection required to complete the vault filling work as shown shall be included in the cost of the associated pay items.
- 19. Mosonry Wall Construction

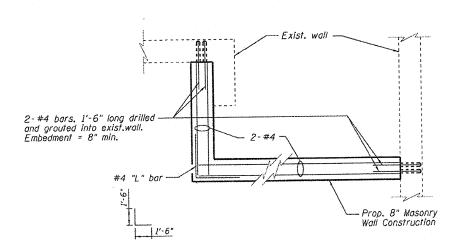
The Contractor may construct a reinforced concrete wall as a substitution for Masonry Wall Construction. If the Contractor chooses this alternative, the following requirements apply:

- the following requirements apply:

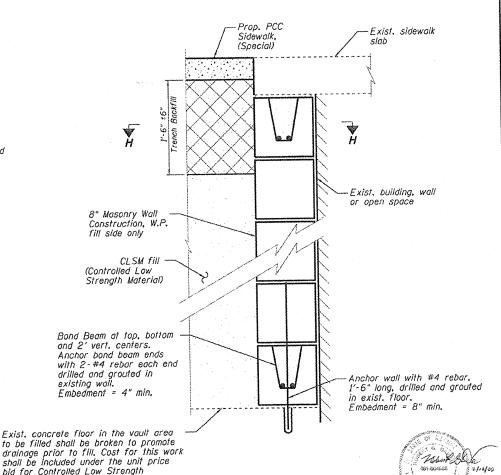
 A. Wall shall be 7½" to 8" thick.
- B. The dowels, corner bars and reinforcing bars shown for the Masonry Wall Construction shall be used. Horizontal #4 bars at 24" on center (each face with 2" clear cover) and corner bars.
- C. Additional #4 vertical bars shall be included at 48" on center, centered in the wall and at each corner and end.
- Class SI concrete shall be utilized in accordance with Section 503 of the Standard Specifications.
- Completed wall shall be measured and paid for at the per square foot unit price bid for Masonry Wall Construction

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Trench Backfill	Cu. Yds.	17.8
Partland Cement Concrete Sidewalk, Special	Sq. Ft.	390
Sidewdik Removal	Sq. Ft.	390
Controlled Low Strength Material	Cu. Yds.	101.1
Concrete Foundation, Type A (Special)	Foot	21
Exploratory Borescope Investigation	Each	4
Masonry Wall Construction	Sq. Ft.	534
Remove Existing Concrete Foundations (Special)	Each	6



SECTION H-H TYPICAL WALL SECTION AT EACH BOND BEAM



TYPICAL WALL/BOND BEAM DETAIL

EXPIRES: 11/36/2013

COUNTY SHEETS NO.

KANE 34 34A SECTION SIDEWALK VAULT DETAILS DESIGNED KMA ISER NAME : SUSERS 2009-002 IS, 091-313-09 & C91-313-09 STATE OF ILLINOIS FILE NAME : **GENERAL NOTES** REVISED DRAWN WJH CONTRACT NO. 60F99 DEPARTMENT OF TRANSPORTATION REVISED CHECKED RGD SHEET NO. OF SHEETS STA. PLOT SCALE : N.T.S. JAN 16 2009 REVISED PLOT DOTE : 2/11/200

Material.

